VENUE FLOOR PLAN
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Word of Welcome</td>
<td>3</td>
</tr>
<tr>
<td>Educational Highlights</td>
<td>4</td>
</tr>
<tr>
<td>Scientific Programme at a Glance</td>
<td>5</td>
</tr>
<tr>
<td>Conference Partners and Supporting Organisations</td>
<td>10</td>
</tr>
<tr>
<td>Committees</td>
<td>14</td>
</tr>
<tr>
<td>Attendee Services</td>
<td>16</td>
</tr>
<tr>
<td>Conference General Information</td>
<td>19</td>
</tr>
<tr>
<td>Information for Speakers, Oral and Poster Presenters</td>
<td>20</td>
</tr>
<tr>
<td>Continuing Medical Education (CME) and Session Evaluations</td>
<td>25</td>
</tr>
<tr>
<td>Thursday 10 December: Sessions</td>
<td>26</td>
</tr>
<tr>
<td>Friday 11 December: Sessions</td>
<td>33</td>
</tr>
<tr>
<td>Saturday 12 December: Sessions</td>
<td>41</td>
</tr>
<tr>
<td>Professional Development Sessions</td>
<td>43</td>
</tr>
<tr>
<td>Health Policy Focus Groups</td>
<td>44</td>
</tr>
<tr>
<td>Meetings on the Occasion of EIP</td>
<td>45</td>
</tr>
<tr>
<td>Oral Presentations</td>
<td>46</td>
</tr>
<tr>
<td>Poster Presentations</td>
<td>53</td>
</tr>
<tr>
<td>Abstracts</td>
<td>65</td>
</tr>
<tr>
<td>Speakers’ and Authors’ Index</td>
<td>137</td>
</tr>
<tr>
<td>Partners, Supporters, Exhibitors and Contributors</td>
<td>149</td>
</tr>
<tr>
<td>Discover London</td>
<td>153</td>
</tr>
</tbody>
</table>
Dear Colleagues and Friends,

Welcome to the 7th annual meeting of Excellence in Pediatrics (EIP) in the great city of London! Thank you for joining us for this truly collaborative event being held with the Health Behaviour in School-aged Children (HBSC), a WHO Collaborative Study, and the WHO Collaborating Centre for International Child and Adolescent Health Policy based at the University of St Andrews School of Medicine.

As you will be aware, for the past 30 years HBSC have been mapping the health and wellbeing of young people, from 44 countries across Europe and North America, providing a crucial insight into emerging child and adolescent health trends. In the latest survey HBSC has collected primary data from over two hundred thousand 11,13 and 15 year old boys and girls covering all aspects of their health and well being, social environments and health behaviours.

For the first time at a health practitioner’s conference, the trends from this important survey will be presented in full allowing pediatric experts to reflect on the findings and offer practical advice and education to all pediatric and adolescent healthcare professionals. HBSC is in a unique position to describe and explain patterning of health among this age group, both within and between countries, and to identify the major influences on young people’s engagement in health-related behaviours. Through its internationally comparable indicators, the HBSC study aims to raise the profile of adolescence as critical period in the life course while also shedding light into adolescent health behaviours and their social and developmental context.

As in previous editions, EIP will attract a truly global audience, with expected participation from delegates from over 80 countries, bringing a wealth of experiences, practices and knowledge. We encourage you to participate in every opportunity that presents itself over the next 3 days, from the plenary keynote lectures and presentations, to the controversies debates and classes to make the most out of what promised to be an excellent meeting.

Thank you for attending and we all hope that you enjoy the conference and look forward to meeting and working with you over the coming 3 days and continuing to collaborate with you in the future.

TERENCE STEPHENSON
Chair of the General Medical Council (GMC) in the UK and Nuffield Professor of Child Health at the Institute of Child Health at University College London

JOAN-CARLES SURIS
Institute of Social and Preventive Medicine and Department of Pediatrics Lausanne University Hospital

JO INCHLEY
HBSC International Coordinator, University of St Andrews, School of Medicine, UK
Dear Conference Delegates and Speakers

It gives me great pleasure to introduce the newly designed and structured scientific programme for the 2015 Conference. The purpose of the new format is to seamlessly combine sessions and speakers covering both the latest research and trends with practical advice on how to better support the children, adolescent and families you advise.

As you will see there are a number of sections (groups of 3-6 presentations) this year covering both pediatrics (the ones in red) and adolescent medicine (the ones in blue), allowing you to pick and choose the most relevant sections to you and create your own personalised conference agenda.

To help you fully prepare to learn each individual session also has a clear set of learning objectives agreed by the speaker that are included in the full version of the programme. This should allow you to have a much better understanding of what you will glean from each session.

In terms of active learning, you will see that a wide variety of session formats have been used this year, including: plenary keynotes, workshops, controversies sessions, classes, trends and practice sessions, and even an open access Focus Group on Active Healthy Families on the 11th December that you are welcome to participate in.

I would encourage you to actively participate and make the most of what promises to be a very exciting scientific programme that combines academic research, applied medicine and interactive learning, helping you not just understand the trends but the best treatment paths too.

G. Syrogiannopoulos
Scientific Program Coordinator
Professor and Chairman of Pediatrics at the School of Medicine, University of Thessaly

<table>
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<tr>
<th>Educational Highlights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Featuring <strong>over 60 internationally renowned speakers</strong> with the leading experts from the worlds of research, pediatrics and adolescent health delivering sessions</td>
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<td>Over <strong>20 conference sub-sections/groups of connected presentations</strong> covering the latest trends and practice changes in pediatric (red sections) and adolescent medicine (blue sections)</td>
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<td>A total of <strong>70 scientific sessions across 4 parallel tracks</strong> in an inspiring mix of interactive formats and group learnings, allowing you to select session by format as well as topic</td>
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<tr>
<td>Every session has <strong>3 clear learning objectives</strong>, instantly deployable in your every-day practice and allowing you to know what you will learn from each session before you decide to attend</td>
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<td>Controversies debates, classes and hands-on workshops that put the delegate at the centre of interactive learning sessions</td>
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<td>Two inspiring free-to-attend 90 minute Leadership Workshops delivered by the Leadership Foundation for Higher Education, Designed to improve the way you lead both as an individual and within your healthcare team</td>
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<td>An open access Active Healthy Families Focus Group taking pace on Friday 11th from 11:30-13:30 covering how best to encourage the families you support to lead a healthy lifestyle</td>
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<td>A record number of <strong>over 150 abstract and oral presentations</strong> that will be presented in poster and oral presentation format across the first two days of the conference</td>
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<td><strong>4 Child Health Policy Focus Groups</strong> taking place in parallel to the main conference looking to identify and overcome barriers to better pediatric and adolescent health policies – including HPV, Influenza and Meningitis Vaccination uptake, and Rare Diseases and Chronic Conditions</td>
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# Programme at a Glance

## Day 1: Thursday 10 December 2015

### Morning Sessions

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Registration Desk Open</td>
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<td>08:30</td>
<td>Coffee Start</td>
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<tr>
<td>09:30</td>
<td>Opening Ceremony</td>
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<tr>
<td>11:30</td>
<td>Pediatrics: Section 1 on Dermatology</td>
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<tr>
<td>11:30</td>
<td>Adolescents Medicine: Section 1 on Children and Adolescents Health Conditions</td>
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<td>11:30</td>
<td>Adolescents Medicine: Section 1 on Adolescents Social Environments</td>
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<tr>
<td>11:00</td>
<td>Class 1</td>
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<tr>
<td>12:00</td>
<td>Lunch Break (Exhibition Area and Bishop Partridge Hall)</td>
</tr>
<tr>
<td>13:00</td>
<td>Poster Viewings (Poster Area around Assembly Hall)</td>
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<tr>
<td>13:00</td>
<td>Meeting on the occasion of EIP - The Latest Progress in Diaper Technologies</td>
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### Opening Ceremony

**Conference Chairs’ Welcome**
- Joan Carles Suris
- Jo Inchley

**Keynote Address:**
- Valentina Baltag, World Health Organization
  - Health for the world’s adolescents - a second chance in the second decade

**Joint Keynote Address:**
- Frank Elgar
- Sergey Sargsyan
  - Child & Adolescent Health Inequalities - Growing gaps and what it means for health practice and health policy

### Pediatrics

**Section 1 on Dermatology**
- Focus: Evidence-based care practices and guidelines on infant skincare
  - Neonatal Skin Care Update – Evidence-based care practices and guidelines for bathing, lubrication and antimicrobial skin disinfection of the newborn
  - DIRK VAN GYSEL, Belgium
  - Preventing atopic dermatitis in infants. An examination of the clinical challenges and approaches to skin barrier protection and restoration
  - Barbara Kunz, Germany
  - Maintaining infant skin integrity by reducing exposure to harmful substances in the first 2 years of life
  - Arnold Oranje, Netherlands

**Assembly Hall**
- Moderator: Arnold Oranje & Dirk Van Gyssel

### Adolescents Medicine

**Section 1 on Children and Adolescents Health Conditions**
- Focus: Trends and practical advice on common health complaints and injuries among adolescents

**Section 1 on Adolescents Social Environments**
- Focus: Trends and Practical Advice on adolescents school environment and health

### Class 1

**The rehabilitation of children with developmental problems**

### Assembly Hall
- Moderator: Sergey Sargsyan

**Bishop Partridge Hall**
- Moderator: Sergey Sargsyan
  - A Complaining Adolescent: What Every Clinician Should Know and Do
  - Sergey Sargsyan, Armenia
  - Practical advice covering the 5 most common health complaints identified in the 2014 HBSC Survey
  - Janet McDonagh, United Kingdom

**Harvey Goodwin Hall**
- Moderator: Joan Carles Suris
  - Children’s and Adolescents’ Shifting Perceptions of Schooling and their Physical and Emotional Well-Being
  - Don A Klinger, Canada
  - The impact of the school environment on physical and emotional health – exploring opportunities to offer maximum support for the promotion of adolescent health
  - Susanne Stronski, Switzerland
  - Cross-national time trends in bullying victimization in 33 countries among children aged 11, 13 and 15 from 2002 to 2010
  - Michal Molcho, Ireland

### Audience Response Session

**Svetislav Polovina, Croatia**

### Council Hall

**Audience Response Session**
- Erin Maughan, United States

**Class 2**

**A school nursing perspective on how pediatricians and school nurses can coordinate their efforts to improve outcomes**

**Audience Response Session**
- Erin Maughan, United States
### DAY 1: THURSDAY 10 DECEMBER 2015

#### AFTERNOON SESSIONS

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
</table>
| 14:00-15:30   | **PEDIATRICS AND ADOLESCENTS MEDICINE**  
                **Section 1 on Nutrition and Diets**  
                **Focus:** Latest Trends and practical advice on Nutrition and Diets |
|               | Assembly Hall  
                Moderator: COLIN MICHE  
                - Dietary habits in childhood: what’s trending?  
                  COLETTE KELLY, Ireland  
                - Vitamin D, here, there and everywhere: some management strategies  
                  COLIN MICHE, United Kingdom  
                **Joint Q&A and Audience Discussion** |
| 14:00-15:30   | **PEDIATRICS AND ADOLESCENTS MEDICINE**  
                **Section 2 on Children and Adolescents Health Conditions**  
                **Focus:** Child and Adolescent Common Injuries |
|               | Bishop Partridge Hall  
                Moderator: WILLIAM PICKETT  
                - Trends in the occurrence of injury: a cross-national analysis of young people  
                  WILLIAM PICKETT, Canada  
                - Treatment and response recommendations for the most common pediatric injuries in children and adolescents  
                  DAMIAN ROLAND, United Kingdom  
                - Medicine use behaviours among adolescents  
                  INIESE GOBINA, Latvia  
                **Joint Q&A and Audience Discussion** |
| 14:00-15:00   | **ADOLESCENTS MEDICINE**  
                **Section 2 on Adolescents Social Environments and Mental Health**  
                **Focus:** What a child and adolescent practitioner should know |
|               | Harvey Goodwin Hall  
                Moderator: JOAN CARLES SURIS  
                - Health, wellbeing and peer violence among immigrant and non immigrant adolescents: Data from the HESC  
                  SOPHIE D. WALSH, Israel  
                  GONNEKE STEVENS, Netherlands  
                - Body image among adolescents - raising awareness of its changing role in mental wellbeing of young people  
                  ROSS WHITEHEAD, United Kingdom  
                  ALINA COSMA, United Kingdom  
                **Joint Q&A and Audience Discussion** |
| 14:00-15:00   | **CLASS 3**  
                Beyond Humor: The Medical Clown as an Integral Part of the Diagnostic and Therapeutic Health Team |
|               | Council Hall  
                **Audience Response Session**  
                ARTHUR EIDELMAN, Israel |
| 15:30-16:30   | **PEDIATRICS**  
                **Section 1 on Vaccinations and Infectious diseases**  
                **Focus:** Epidemics and vaccination coverage updates |
|               | Assembly Hall  
                Moderator: ROBERT S DAUM  
                - Influenza among pediatric outpatients  
                  ROBERT S DAUM, United States  
                - Meningitis surveillance and vaccination coverage updates - Meningococcal B vaccine introduction in Europe  
                  GEORGE A. SYROGIANNOPoulos, Greece  
                **Joint Q&A and Audience Discussion** |
| 15:30-16:30   | **ADOLESCENTS MEDICINE**  
                **Section 3 on Adolescents Social Environments**  
                **Focus:** The importance of parental communication |
|               | Harvey Goodwin Hall  
                Moderator: JOAN CARLES SURIS  
                - Adolescent perceptions of parental communication in Europe and North America 2002-2010: A protective health asset  
                  FIONA BROOKS, United Kingdom  
                - Part of the solution: integrating parents in the adolescent consultation  
                  JOAN CARLES SURIS, Switzerland  
                **Joint Q&A and Audience Discussion** |
| 16:30 -17:00  | **COFFEE BREAK** |
| 17:00-18:00   | **CONTROVERSIES IN PEDIATRICS**  
                Home hygiene and childhood health - Practical advice for pediatricians and parents. Is there a limit? |
|               | Assembly Hall  
                **Audience Response Session**  
                CHARLES GERBA, United States  
                **Joint Q&A and Audience Discussion** |
| 17:00-18:00   | **HANDS-ON WORKSHOP**  
                Rheumatology for the Pediatrician: How to approach a child with joint pain - diagnosis and treatment methods |
|               | Bishop Partridge Hall  
                **Audience Response Session**  
                A. RAMANAN, United Kingdom  
                **Joint Q&A and Audience Discussion** |
| 17:00-18:00   | **CLASS 5**  
                Acne and acneiform eruptions |
|               | Harvey Goodwin Hall  
                **Audience Response Session**  
                ARNOLD ORANJE, Netherlands  
                **Joint Q&A and Audience Discussion** |
| 17:00-18:00   | **CLASS 4**  
                A profile of the spiritual health of young people in six countries in Pediatrics |
|               | Council Hall  
                **Audience Response Session**  
                WILLIAM PICKETT, Canada |
| 18:00 -19:00  | **WELCOME RECEPTION** (Exhibition Area) |
DAY 2: FRIDAY 11 DECEMBER 2015 | MORNING SESSIONS

08:00-08:30 COFFEE START

09:00-09:45 PEDIATRICS AND ADOLESCENTS MEDICINE
Section on Chronic Conditions

Assembly Hall

• EMMAUDEELE GOEDAU, France
PERNILLE DUE, Denmark

09:45-11:00 PEDIATRICS

Section 1 on Rare Diseases and Chronic Conditions

Focus: The British Paediatric Surveillance Unit 30 years experience on the epidemiology of rare diseases

Assembly Hall

Moderator: RICHARD READING

• Epidemiology of rare disease - impact on a national and international child health
RICHARD READING, United Kingdom
• Progressive intellectual and neurological deterioration – identifying the syndromes
CHRIS VINN, United Kingdom
• HIV and congenital rubella has the corner been turned?
PAT TOOKY, United Kingdom

11:00-11:30 COFFEE BREAK

11:30-13:20 PEDIATRICS

Section 2 on Rare Diseases and Chronic Conditions

Focus: Practical advice on spotting the signs of Rare Diseases and Chronic Conditions in the everyday practice

Assembly Hall

Moderator: ATHIMALAIPEY RAMANAN

• Avoiding the common problems of misdiagnosis in relation to Juvenile Arthritis
ATHIMALAIPEY RAMANAN, United Kingdom
• Preparing yourself to spot the early signs of Cystinosis
WILLIAM VAN'T HOFF, United Kingdom
• Could this be a primary immunodeficiency? Clues from history and type of infection
ANDERS RASTH, Sweden
• When to suspect a diagnosis of lysosomal disorders in children
UMA RAMASWAMI, United Kingdom
• Spotting the signs of kidney disease in children
RICHARD TRUMPEY, United Kingdom

11:30-12:30 ADOLESCENTS MEDICINE

Section on Oral Health

Focus: Is there a role for pediatricians and general practitioners to intervene in children’s and adolescents oral health

Bishop Partridge Hall

Moderator: PHILIP CASTLE

• Gendered trends in early and very early sex and condom use in 20 European countries from 2002 to 2010
LUCA RAMIRO, Portugal
• Overcoming Vaccine Hesitancy: Lessons to be Learned from the HPV Vaccination Programme in Japan
SHARON HANLEY, Japan
• European Cervical Cancer surveillance and HPV Vaccination coverage update
MARC VAN RANST, Belgium
• Epidemiology of human papillomaviruses (HPV) and cervical/analogenital cancer - from science to cancer prevention strategies
PHILIP CASTLE, United States
• Cervivor: a game-changer in the world of cervical cancer advocacy
TAMKA FELDER, United States

11:39:00-11:54:00 HEALTH POLICY FOCUS GROUP MEETING

INFLUENZA VACCINATIONS

Convocation Hall

Participation by Invitation only

11:30-13:30 ORAL PRESENTATIONS

Council Hall

Moderator: IOANNA GRIVEA

GP2: Oral Presentations on Addictive Behavior, Current Health conditions, Medicine Use and Sexual Health

GP1: Oral Presentations on Rare Diseases and Chronic Conditions

13:30 LUNCH BREAK (Exhibition Area and Bishop Partridge Hall)

13:30-14:30 POSTER VIEWINGS (Poster Area around Assembly Hall)

13:30-14:30 MEETING ON THE OCCASION OF EIP - A Sherlock Holmes approach to detecting treatable Lysosomal Storage Disorders

Lunch served in hall for lecture participants
Assembly Hall
Moderator: TERENCE STEPHENSON

- Overcoming Vaccine hesitancy
  MARC VAN RANST, Belgium

- Meningitis Update – The latest recommendations and guidelines for the meningitis booster for adolescents
  GEORGE A. SYROGIANNISPOULOS, Greece

- The indirect effects of live attenuated flu vaccine
  ADAM FINN, United Kingdom

- The association between good vaccination coverage and lower incidence of sudden infant death syndrome - USA data case study
  JACQUELINE MULLER-NORDHORN, ADAM FINN, United Kingdom

- MRSA practical advice update - Prevention and treatment strategies for methicillin-resistant Staphylococcus aureus infections in pediatrics
  ROBERT S DAUM, United States

Bishop Partridge Hall
Moderator: ATHIMALAIPET RAMANAN

- Cystinosis - Early Diagnosis and Patient Support - Pediatricians effectively working with Patients’ Groups
  VALERIE HOYT, United States

- The importance of early diagnosis and the practical support healthcare professionals can offer children diagnosed with LSDs - The MPS Society
  CHRISTINE LAVERY, United Kingdom

- Putting the patient first - Patient-centric approaches to the treatment of children with a suspected rare disease - Tuberculous Sclerosis
  JANINE SPINK, United Kingdom

Bishop Partridge Hall

- The team approach - the effective transition from pediatric/adolescent to adult care
  RICHARD TRUMPETER, United Kingdom & JANET MCDONAGH, United Kingdom

Harvey Goodwin Hall
Moderator: BOB SALLIS

- Secular trends in moderate-to-vigorous physical activity in 32 countries from 2002 to 2010
  MICHAL KALMAN, Czech Republic

- The benefits of exercise in kids: How to help get them moving
  BOB SALLIS, United States

- Overweight prevalence trends over 8 years among nationally representative samples of 11-, 13- and 15-year-olds in Europe and North America
  NAMANJEET AHLUWALIA, United States

- Prevention of childhood obesity and health inequities - The EPODE approach
  JEAN-MICHEL BORYS, France

- Importance of sedentary behavior research – findings from the HBSC study
  JENS BUCKSCH, Germany

- Changing habits, changing lives - providing practical advice for overcoming sedentary behavior in children
  BOB SALLIS, United States

Convocation Hall
Interactive Hall
Moderator: ANTONIOS GOUNARIS

- Module 1 Leadership and Team Development
  ALISON JHONS, United Kingdom
  DOUG PARKIN, United Kingdom

- OP5: Oral Presentations on general pediatrics and child mental health
  DOUG PARKIN, United Kingdom

Council Hall

- Participation by invitation only

Assembly Hall

- The effective diagnosis of a child with ADHD - avoiding the common problems with diagnosis and referral
  MICHAEI FITZGERALD, Ireland

- Is it appropriate or necessary to treat children 4 to 5 years of age with ADHD using stimulant medications?
  MICHAEI FITZGERALD, Ireland

Joint Q&A and Audience Discussion

Bishop Partridge Hall

- Audience response session
  BOB SALLIS, United States
  MIKE LOOSEMORE, United Kingdom
  COURTYN KIPP, United Kingdom

Harvey Goodwin Hall

- Audience response session
  ARTHUR EIDELMAN, Israel

Council Hall

- Participation by invitation only

END OF DAY
DAY 3: SATURDAY 12 DECEMBER 2015 | MORNING SESSIONS

08:30-09:30 COFFEE START

09:30-11:30 PEDIATRICS
Section 2 on Nutrition and Diets
Focus: Introduction to solid food
Harvey Goodwin Hall
Moderator: KATIE ALLEN

- Understanding and applying the latest guidelines for identifying food allergies in children
  KATIE ALLEN, Australia
- Cow’s milk allergy – more than just IgE
  LEANNE GOH, United Kingdom
- Feeding the allergic child
  SOPHIA KALLIS, United Kingdom
- Pediatric Gastroenterology & Nutrition Update - from Diet to Digestive Health
  KATIE ALLEN, Australia

09:30-11:30 ADOLESCENTS MEDICINE
Section on substances and intoxication
Focus: Trends and practical advice on Tobacco and Alcohol use among adolescents. What a healthcare professional should know
Bishop Partridge Hall
Moderator: JOAN CARLES SURIS

  ANNE HUBLET, Belgium
- Decrease in adolescent alcohol use in Europe and North America: Evidence from 28 countries, 2002-2010
  MARGARETHA DE LOOZE, Netherlands
- Addressing tobacco and cannabis use in primary care
  JOAN CARLES SURIS, Switzerland

09:30-11:30 PROFESSIONAL DEVELOPMENT
Workshop: Discovering Leadership - to engage, develop and transform
Council Hall
Interactive Session

- Module 2 - Leading Change in a Complex Environment
  ALISON JOHNS, United Kingdom
  DOUG PARKIN, United Kingdom

11:30-12:00 CLOSING PLENARY LECTURE: WHAT CAN WE DO TO COMBAT THE OBESITY EPIDEMIC?
TERENCE STEPHENSON, UNITED KINGDOM

12:00-12:30 CONFERENCE CLOSING REMARKS
CONFERENCE CHAIRS: TERENCE STEPHENSON, JOAN CARLES SURIS, JO INCHLEY
The World Health Organisation (WHO) designated the University of St Andrews’ School of Medicine as its Collaborating Centre for International Child and Adolescent Health Policy (WHO CC) in October 2013. This prestigious appointment endorses the international research and policy-influencing work of the School’s leading researchers in the field of population and behavioural health sciences. The WHO CC has several strands of work related to social determinants of health and prevention of health inequalities, reduction of youth violence, and prevention of risk behaviours such as drug use. Additionally, it seeks to use research to inform policy and practice aimed at improving young people’s health, well-being, health behaviours, and supportive social contexts. In this regard, the WHO CC works closely with key stakeholders including the Health Behaviour in School-Aged Children (HBSC) study to increase its policy impact and knowledge exchange efforts.

The HBSC is an international alliance of researchers that collaborate on the WHO collaborative cross-national survey of school students, Health Behaviour in School-aged Children. Initiated in the early 1980’s, the study collects data every four years on 11-, 13- and 15-year-old boys’ and girls’ health and well-being, social environments and health behaviours. The research venture dates back to 1982 and shortly thereafter it was adopted by the WHO Regional Office for Europe as a collaborative study. HBSC now includes 44 countries and regions across Europe and North America. This collaboration brings in individuals with a wide range of expertise in areas such as clinical medicine, epidemiology, biology, pediatrics, pedagogy, psychology, public health, public policy, and sociology. The study has therefore involved cross-fertilization of a range of perspectives that has resulted in an innovative scientific framework which captures the contextual environment in which young people live thus allowing us to gain an insight into determinants and possible mediators and moderators of young people’s health. As such, HBSC has earned a reputation as a unique provider of key internationally comparable statistics of the health and health-related behaviours of young people.

This conference is the first of its kind to bring together the Health Behaviour in School-aged Children study, the Excellence in Pediatrics Institute and the WHO Collaborating Centre for International Child and Adolescent Health Policy to build knowledge, foster dialogue and progress innovation in research and practice within the field of children and adolescent health. The HBSC study provides secular trends across countries for a wide variety of key measures within adolescent health. Pediatricians are in a unique position to critically examine this data, contextualise it, and use it to support and promote healthy behaviours in the young people they care for. The WHO CC can foster advocacy efforts to prioritise adolescent health issues and implement policy recommendations for national and international bodies. All in all, it will be an excellent opportunity to make research and data relevant to practitioners, as well as to better familiarise researchers with the challenges and opportunities of pediatric clinical practice. This event will provide a unique collaborative opportunity for key players in the adolescent health field to access and discuss international research findings on adolescent health, to consider current challenges and opportunities within pediatric clinical practice, and to find solutions to some of the most pressing issues facing young people today.
The Leadership Foundation for Higher Education

The Leadership Foundation is a membership organisation that delivers leadership development and consultancy advice to higher education institutions in the UK and around the world. The focus of the Leadership Foundation’s work is to improve the management and leadership skills of existing and future leaders of higher education. The services provided include consultancy, leadership development programmes and events, including a major series of events for governors. This work is supported by a highly regarded research and development programme that underpins the leadership development programmes and stimulates innovation.

The Leadership Foundation has a small team of experienced leadership and organisational development professionals drawn from higher education, other parts of the public sector, and also from the private sector. Much of the Leadership Foundation’s work is delivered in partnership with the higher education sector and other partner organisations.

www.lfhe.ac.uk

British Paediatric Surveillance Unit

The British Paediatric Surveillance Unit (BPSU) enables doctors and researchers to find out how many children in the UK and Republic of Ireland are affected by particular rare diseases or conditions each year. The Unit was set up in 1986. It is a joint initiative of the Royal College of Paediatrics and Child Health (RCPCH), Public Health England (PHE) and the Institute of Child Health (ICH) to support research into rare childhood disorders.

The International Network of Paediatric Surveillance Units (INOPSU)

The International Network of Paediatric Surveillance Units (INOPSU) is a collaborative organisation. Established in 1998, it currently joins 12 diverse countries which span the globe from Canada to New Zealand. More than 8000 clinicians contribute and over 200 conditions have been studied so far. Our mission is “the advancement of knowledge about rare and uncommon childhood infections and disorders through the participation of paediatricians in the surveillance on a national and international basis”

The Global Coalition Against Cervical Cancer (GC3)

The Global Coalition Against Cervical Cancer (GC3) assists low- and middle-income countries and regions in the country-driven implementation of comprehensive, sustainable, and effective cervical cancer prevention and control. GC3 accomplishes its mission through stakeholder engagement and capacity building by providing collaborative training and education of in-country personnel, technical assistance, and technology transfer.

Our VISION is to reduce the global number of cervical cancer cases 25% by 2030 and 50% by 2040.

Approximately every two minutes a woman dies from cervical cancer. Even though it can be effectively identified and treated, cervical cancer remains the world’s third most common cause of female cancer-related mortality. Unlike other major cancers, cervical cancer primarily occurs in middle-aged women, just at the age when they are highly productive members of society, working and raising families, which compounds the devastating social impact of this disease on families and communities.

www.lfhe.ac.uk
Asia Oceania Research Organisation in Genital Infection and Neoplasia (AOGIN)

AOGIN is an expert multi-disciplinary group within the region and along the lines of European Research Organization on Genital Infection and Neoplasia (EUROGIN) / European Course on HPV Associated Pathology Virus (ECHPV), as developed for Europe and, more recently, Latin America.

AOGIN works with health care workers (as well as the lay public), particularly those in women’s health with the goals of collaboration and research, scientific exchanges, education and training, providing information, surveys and audits.

AOGIN brings together clinicians and scientists whose work is related to genital infections and neoplasia.

AOGIN’s vision is to reduce the burden of disease caused by reproductive tract infections, especially HPV, in the Asia, Oceania and Pacific region. Furthermore, AOGIN’s mission is to work with governments, non-governmental organisations, learned societies, health care workers and the lay public, to communicate, cooperate and share information and tools in order to reduce the burden of disease caused by reproductive tract infections, especially HPV, in the Asia, Oceania and Pacific region.

We regularly hold biennial major international conferences and interim regional meetings. Our last biennial meeting was held in Beijing in 2014 and our coming biennial meeting will be in Singapore in 2016. In addition, we also work with local organizations to hold regional educational workshops on cervical screening and colposcopy.

The Cystinosis Foundation

Our story begins in 1982, when Joshua, grandson of Jean Hobbs-Hotz, was diagnosed with this ultra-rare metabolic condition. There was no treatment available. The first treatment for Cystinosis would not arrive until 1994.

Unwilling to do nothing and at the suggestion of Jerry A. Schneider, M.D., with support from family and friends Jean established the Cystinosis Foundation for the purpose of serving all individuals living with Cystinosis. From the start we have collaborated with scientists, clinicians, families and industry to improve the care of individuals and families coping with this condition.

Making a difference since 1983 for the child born today, our mission focuses on educating patients, parents and medical professionals about this ultra-rare condition, mentoring the establishment of patient support groups across the globe and serving the needs of patients and their families.

The Cystinosis Foundation works beyond borders, empowering parents and mentoring the establishment of support groups in 16 different nations, helping to remove painful feelings of isolation that accompany this ultra rare metabolic condition. We believe that nothing is too small to know and nothing too big to attempt.
WellChild

There are thousands of children and young people living with a serious illness or complex health condition in the UK. WellChild is the national charity working to ensure the best possible care and support for all these children, young people and their families wherever they are and whenever they need it. This is done by providing a range of programmes that make a huge impact on the lives of these families. These include:

**WellChild Children’s Nurses**

Central to the programmes on offer is the growing network of WellChild Children’s Nurses who work across the UK in community and hospital settings. They provide essential and individualised care and support to many of these children and young people, including those who are technology dependent. A crucial part of their keyworker role is focused on enabling early discharge from hospital so that care can be provided at home. Supporting these families through the process helps to reduce the practical, emotional and financial impact they often experience.

**WellChild Projects**

WellChild has funded countless initiatives to improve the lives of seriously ill children, young people and their families. This includes a range of projects to help create a better understanding of how care is provided at home and give parents and carers access to the information they need. One example of this is the Medicines for Children website developed in partnership with the Royal College of Paediatrics and Child Health and the Neonatal and Paediatric Pharmacists Group. This free, practical and reliable resource on over 100 children’s medicines provides useful information for parents through leaflets and videos. Another practical resource is ‘My Child Is In Pain’. Developed at the University of Central Lancashire with parents this interactive website gives advice on how to manage pain after a child has had day surgery.

**WellChild Family Tree**

The WellChild Family Tree provides families of seriously ill children with a safe place they can chat to other parents and carers and support each other online via a closed Facebook group and also face-to-face through local ‘branches’. Dedicated support to children and young people with the rare condition Wolfram Syndrome and their families is also provided through the Wolfram Syndrome Family Coordinator who works closely with the specialist team at Birmingham Children’s Hospital.
CONFERENCE CHAIRS

TERENCE STEPHENSON
United Kingdom,
2015 Conference Co-Chair and Vaccines Initiative Chair, Chair of the General Medical Council (GMC) in the UK and Nuffield Professor of Child Health at the Institute of Child Health at University College London

JOAN-CARLES SURIS, Switzerland,
2015 Conference Co-Chair Institute of Social and Preventive Medicine and Department of Pediatrics Lausanne University Hospital

JO Inchley
United Kingdom,
2015 Conference Co-Chair HBSC International Coordinator, University of St Andrews School of Medicine, UK

GEORGE SYROGIANNIPOULOS, Greece,
2015 Conference Scientific Program Coordinator Professor and Chairman of Pediatrics at the University of Thessaly, School of Medicine in Larissa

VACCINES INITIATIVE & FOCUS GROUP STEERING COMMITTEE

TERENCE STEPHENSON
United Kingdom,
2015 Conference Co-Chair and Vaccines Initiative Chair, Chair of the General Medical Council (GMC) in the UK and Nuffield Professor of Child Health at the Institute of Child Health at University College London

PHILIP CASTLE, USA,
Executive Director of Global Cancer Initiative (Chestertown, MD), and the Executive Director of the Global Coalition against Cervical Cancer

ADAM FINN, United Kingdom,
Professor of Paediatrics at the University of Bristol, UK

MARC VAN RANST, Belgium,
Virologist and Epidemiologist at the Katholieke Universiteit Leuven and the Rega Institute for Medical Research

GEORGE SYROGIANNIPOULOS, Greece,
2015 Conference Scientific Program Coordinator Professor and Chairman of Pediatrics at the University of Thessaly, School of Medicine in Larissa
INFANT AND ADOLESCENTS SKINCARE INITIATIVE STEERING COMMITTEE

DIRK VAN GYSSEL, Belgium, Head of the Department of Pediatrics, OLVrouw Hospital Aalst. Board member and former Treasurer of the ESPD

ARNOLD ORANJE, Netherlands, Professor in Pediatric Dermatology, (Kinder) HUID.nl, Rotterdam and Dermicis Skin Hospital, Alkmaar, the Netherlands

ANDERS FASTH, Sweden, Professor of Pediatric Immunology at University of Gothenburg, and at Division of Immunology, The Queen Silvia Children's Hospital

RARE DISEASES INITIATIVE & FOCUS GROUP STEERING COMMITTEE

ATHIMALAIPEET RAMANAN, United Kingdom, Consultant Paediatric Rheumatologist Bristol Royal Hospital for Children & Royal National Hospital for Rheumatic Diseases, Bath

RICHARD TROMPETER, United Kingdom, Emeritus Consultant Paediatric Nephrologist at Great Ormond Street Hospital for Children

ACTIVE HEALTHY FAMILIES INITIATIVE & FOCUS GROUP STEERING COMMITTEE

ROBERT SALLIS, USA, Active Healthy Families Initiative Chair for the Exercise is Medicine Initiative Clinical Professor of Family Medicine, UC Riverside School of Medicine, USA, Co-Director, Sports Medicine Fellowship, Kaiser Permanente, Chair, Exercise is Medicine

JEAN MICHEL BORYS, France, Director of the EPODE European Network and Secretary General EPODE International Network

MIKE LOOSEMORE, United Kingdom, Consultant, Sport and exercise medicine at English Institute of Sport

COURTNEY KIPPS, United Kingdom, Principal Clinical Teaching Fellow and Consultant in Sport and Exercise Medicine The Institute of Sport, Exercise & Health UCL
The Venue

Church House Conference Centre, Westminster, London: The ideal location at the heart of London. Situated in the heart of Westminster, with exquisite views of Westminster Abbey, this Grade II listed venue offers an elegant and tranquil setting for conferences and events. Nineteen spacious and diverse rooms make Church House Conference Centre one of London's most versatile conference and events venues. Located off Parliament Square, Church House Conference Centre is within easy walking distance of both Westminster and St James's Park underground stations, and Victoria, Waterloo and Charing Cross mainline train stations.

Church House Conference Centre address: Dean's Yard, Westminster, SW1P 3NZ

Visit the venue’s website: www.churchhouseconf.co.uk

A few words on the History of the building

The original Church House was founded in 1887 and built to commemorate the Golden Jubilee of Queen Victoria. In 1931 plans were prepared to erect a new Church House in its place that was more in keeping with the needs of the time. However, it was considered that it would not be appropriate to proceed due to the world recession and plans were put in abeyance until 1937.

The current building was designed by the renowned architect, Sir Herbert Baker, and the foundation stone was laid by Her Majesty, Queen Mary on 26 June 1937. It took until 1940 to complete and was officially opened by His Majesty, King George VI, on 10 June 1940.

The building suffered a direct hit in the early part of WWII but due to its exceptional construction only minimal damage was done. The Prime Minister of the day, Winston Churchill, was so impressed by this that the building was refurbished for use by the two Houses of Parliament for the remainder of the war.

Many historic speeches and events took place within the building during this time, in particular the announcement, by Churchill from the stage of the Hoare Memorial Hall, of the sinking of the battleship Bismarck.

In 1945 the first meetings of the United Nations Preparatory Commission and Security Council were held in the Hoare Memorial Hall. The building was granted Grade II listed status in 1988 with the present Conference Centre opening officially on 19 November 1990.

In 2006 the Conference Centre underwent a major refurbishment with the reconfiguration of the large Assembly Hall to a more flexible event space seating up to 664 for a conference or 372 for a seated dinner.

The Halls

ASSEMBLY HALL - GRADE II LISTED

Main Hall

The Grade II listed Assembly Hall was built in 1939, to the design of world-renowned architect Sir Herbert Baker. It is flooded by natural light during the day from the 15 arched windows on the gallery level. The polished, English oak panelling and heraldic emblems sit beneath a 30 foot glass dome surrounded by 32 gilded angels.

Location: First Floor, natural light, air-conditioned, wheelchair access
HOARE MEMORIAL HALL - EXHIBITION AREA
Coffee / Lunch Breaks

The peace and beauty of oak-panelling combine with a weight of history to form the stately Hoare Memorial Hall. The Hoare Memorial Hall also played host to the House of Commons during 1940-1945.

Location: First Floor, natural light, air-conditioned, wheelchair access

HARVEY GOODWIN SUITE
Parallel Hall

Elegant and spacious, the Harvey Goodwin Suite is ideal for conferences, meetings, buffets, dinner dances and formal dining.

Location: Ground Floor, natural light, air-conditioned, wheelchair access

BISHOP PARTRIDGE HALL
Parallel Hall

Overlooking the cloistered and peaceful Dean’s Yard is the Bishop Partridge Hall. Three sets of oak framed French doors lead onto a balcony running almost the length of the room, revealing spectacular views across Dean’s Yard to Westminster Abbey.

Location: First Floor, natural light, air-conditioned, wheelchair access

CONVOCATION HALL
Parallel Hall

The Convocation Hall housed the House of Lords at times during the Second World War. The formal atmosphere combines grace with a classical charm ideal for both business and social functions.

Location: First Floor, natural light, air-conditioned, wheelchair access

COUNCIL ROOM
Parallel Hall

The Council Room overlooks the delightful Dean’s Yard.

Location: Ground Floor, natural light, air-conditioned, wheelchair access

ABBEY ROOM
Speakers Ready Room

The Abbey Room overlooks the delightful Dean’s Yard.

Location: Ground Floor, natural light, air-conditioned, wheelchair access
DIRECTIONS TO THE VENUE

Underground

Nearest underground stations: St James’s Park and Westminster (District, Circle and Jubilee lines)

From St James’s Park:
Leave the station via the Broadway Exit (straight ahead) and head down Tothill Street. When you reach the end of the street, you will see Westminster Abbey. Cross over the road going towards the Abbey.

On your right you will see a small archway with a security cabin and a gate. Go through the archway into Dean’s Yard and head towards the large building facing you at the end of the yard - this is Church House.
From Westminster:
Leave the station via exit 4, turn right and walk to the first set of traffic lights on your left. Cross the road going towards the Houses of Parliament. Go straight ahead past the Houses of Parliament until you reach the next set of pedestrian lights. Turn right and walk past Westminster Abbey. At the end of the Abbey you will see a small archway to your left with security cabins on either side. Go through the archway into Dean's Yard, Church House is the large building facing you at the end of the yard.

From Victoria:
Use the exit leading to the mainline station and leave the station by the front entrance. Follow the directions from Victoria Station (below).

Mainline

From Victoria:
Leave the station by the front entrance; cross the first road on the right (Vauxhall Bridge Road) and walk straight down Victoria Street for approximately 15 minutes until you reach Westminster Abbey. Standing in front of the Abbey, you will see a small archway with a security cabin to the right. Go through the archway into Dean's Yard and head towards the large building facing you at the end of the yard - you have reached Church House.

From Euston:
Follow signs to London Underground, take a Southbound Victoria Line train (final stop Brixton) and get off the tube at Victoria Station. From here you can either walk as above or take the District or Circle Line Eastbound to St James's Park and follow directions from St James's Park Tube.

From Kings Cross:
Follow signs to London Underground. Take a Southbound Victoria Line tube (final stop Brixton). Get off the tube at Victoria Station. From here you can either walk as above or take the District or Circle Line Eastbound to St James's Park and follow directions from St James's Park Tube.

From Paddington:
Follow signs to London Underground and take a Circle Line train (via Victoria). Get off at St James's Park and follow directions from St James's Park Tube.

Bicycle:
There are sheltered bike racks and cycle bars in the garage available for guests to chain their bikes to. Please ask at reception on arrival for further details.

Santander Cycle Hire Scheme:
For guests travelling to Church House Conference Centre using a Santander Cycle Hire Scheme bicycle, the nearest docking station is located on Abbey Orchard Street, Westminster.

Official Language
The official language of the Conference is English.

Badges & Conference Material
Name Badges and Conference Material will be provided on-site to all registered delegates at the Conference Registration Desks, from 10 December to 12 December. Badges are to be worn at all times, for reasons of security and identification. You will not be permitted to enter any room without your badge.

Abstracts book part of the final programme
Abstracts of oral and poster presentations will be distributed to all registered delegates. Abstracts will also be published in the online library accessible through the EIP Institute's website (www.ineip.org).

Certificate of Attendance
All registered delegates are entitled to a Certificate of Attendance. Certificates can be collected from the Conference Secretariat from the afternoon of 11 December. The certificates will be provided on site upon completion of a Conference feedback form.

Programme Changes
Due to circumstances beyond the control of the Conference Organisers, last minute changes to the programme may be unavoidable. All information included in this programme is accurate as at the day of printing, 18 November 2015.
Speakers’ Ready Room

The Speakers’ Ready Room will be operating throughout the duration of the Conference in the Abbey Room, located on the Ground Floor of the venue next to the registrations desks.

Speakers are kindly requested to hand in their presentation (USB-key, CD-ROM, DVD) at least two (2) hours before their scheduled presentation time. If your presentation is scheduled early in the morning, you are kindly requested to hand in your presentation at the Speakers’ Ready Room the day before.

All versions of MS PowerPoint are accepted, including Mac. If you are using embedded video clips in your presentation, please remember to submit video files separately. The following audiovisual equipment will be available for all presenters:

- PC
- Data video projector (PowerPoint presentations)
- Laser Pointer
- Microphones

Oral Presentations

If you are presenting an oral podium presentation, you are kindly requested to observe the following points:

- Your presentation should last a maximum of 7 minutes.
- Speakers are kindly requested to hand in their presentation (USB-key) at least one (1) hour before their scheduled presentation time.
- All versions of MS PowerPoint are accepted, including Mac. If you are using embedded video clips in your presentation, please remember to submit video files separately. The following audiovisual equipment will be available for all presenters: PC, Data video projector (PowerPoint presentations), Laser Pointer, Microphones
- Please declare any conflicts of interest at the beginning of your presentation.
- Please speak slowly and clearly. English is the working language of the Conference, but not necessarily the native language of the delegates.

Poster Presentations

You are expected to post your poster on the appropriate board for the following times:

- If you are included in the 1st Poster Viewing Session, please post on Thursday 10 December from 09.00 - 11.00 and remove / dismantle by the end of the day from 17.00 - 18.00.
- If you are included in the 2nd Poster Viewing Session, please post on Friday 11 December from 09.00 - 11.00 and remove / dismantle by the end of the day from 17.00 - 18.00.
- Poster viewings are on Thursday 10 December from 13.00 - 14.00.
- Poster viewings are on Friday 11 December from 13.30 - 14.30.

If you are presenting a poster, you are kindly requested to observe the following points:

- English is the official language of the Conference.
- Each presenting author should be present on the time and date of his/her presentation in the poster area.
- You are expected to be standing in front of your poster for the duration of the poster session.
- During the poster session, a moderator will lead Poster Walk Presentations around all of the posters at that session. When the moderator visits your poster, you will be given 5 minutes to present the key points of your poster.
For Posters to be exhibited, please note the following:

- The necessary material for displaying the posters will be available in the poster area.
- Poster numbers will be displayed at the top of the panels.
- The corresponding poster panel number for each poster presented has been provided by the Conference Organisers, along with abstract presentation guidelines.
- Mounting and dismantling of posters will be done as specified in the information already sent to poster presenters by the Conference Organisers.
- Please note that posters should be 80 cm (wide) x 190 cm (tall) maximum (portrait layout).
- As a courtesy to other presenters, participants are kindly requested not to move or remove poster numbers or change the order of the assigned poster boards.
- It is essential that presenters clear their poster board promptly and within the scheduled time. Material left on a poster board after the removal deadline will be discarded.
- The Conference Organisers are not responsible for materials left behind or for any stolen or damaged materials.

All services are open daily and located at the **Secretariat area** in the entrance of the Venue.

**Help at the Conference**

**AT THE SECRETARIAT:** Please contact the organiser’s staff at the registration area during these operating times:

- Thursday 10 December: 08:00 - 19:00
- Friday 11 December: 08:00 - 19:00
- Saturday 12 December: 08:00 - 14:00

**IN PERSON:** Find the friendly staff wearing the EIP’s badge in the halls and the exhibition area or visit the desks in the registration area located on the Ground Floor.

**BY EMAIL:** Send an email to secretariat@ineip.org

**In the event of an Emergency**
For all emergencies at the Church House Conference Centre - fire, police and medical - contact the Conference Secretariat or any Co-ordinator of the Venue. Speak to a live person by calling the Conference Information Hotline 020 7390 1560.

**Liability & Insurance**
Delegates are advised to arrange health and accident insurance before travelling to the Conference. The Conference Organisers cannot accept liability for personal injury or loss/ damage to property and belongings of delegates during the Conference or their stay in London. Please refrain from leaving your personal belongings unattended in any Conference area.

**Mobile Phones**
Delegates are kindly requested to switch off their mobile phones during the Conference sessions.

**Internet Access**
There is free Wi-Fi access in all areas of the Church House Conference Centre. Please choose the Guest network and use the password Christmas2015 to get access at any moment for the duration of the conference. There will also be dedicated charging points for laptops and mobile devices in the Exhibition and the Secretariat areas.

**Operating Hours**
**Secretariat Operating Hours**
The Secretariat registration desks will be open for the duration of the Conference, please note opening times below:

- Thursday 10 December: 08:00 - 19:00
- Friday 11 December: 08:00 - 19:00
- Saturday 12 December: 08:00 - 14:00

**Exhibition Operating Hours**
The Exhibition will be open for the duration of the Conference, please note opening times below:

- Thursday 10 December: 09:00 - 18:00
- Friday 11 December: 09:00 - 18:00
- Saturday 12 December: 09:00 - 12:00
Photos, Video recordings
There will be an authorised photographer appointed by the Conference Organisers who will record all aspects of the event. These photographs will be uploaded on the social media pages of the EiP Institute daily during the Conference.

Most Sessions will also be video recorded, which will be uploaded to the EiP Institute's website after the Conference and available for viewing both by those who could not attend the Conference and also those who attended and wish to review any Session.

There will also be opportunities to give interviews to the dedicated team at the Conference, in order to give your own testimonial of your Conference experience. Videos of these interviews will also be uploaded on EiP Institute’s website and social media pages after the close of the Conference.

Social Media
Like Us: https://www.facebook.com/EIPInstitute/
Follow Us: https://twitter.com/EIP_Institute
Link with Us: https://www.linkedin.com/groups/4440556

Lunches and Coffee and Social Events
Offering a break from intensive learning during the programme Sessions, the coffee and lunch breaks also provide an excellent opportunity for meeting and networking with faculty members and peers from all over the world.

Lunch Breaks:
- Thursday 10 December, 13:00 - 14:00 in the Hoare Memorial Hall
- Friday 11 December, 13:30 - 14:30 in the Hoare Memorial Hall

Coffee Starts and Coffee Breaks:
- Thursday 10 December, 08.30 - 09:30 in the Hoare Memorial Hall
- Thursday 10 December, 16:30 - 17:00 in the Hoare Memorial Hall
- Friday 11 December, 08:00 - 09:00 in the Hoare Memorial Hall
- Friday 11 December, 11:00 - 11:30 in the Hoare Memorial Hall
- Saturday 12 December, 08:30 - 09:30 in the Hoare Memorial Hall

Welcome reception:
- Thursday 10 December, 18:00 - 19:00 in the Hoare Memorial Hall
CONFERENCE PROGRAMME

SCIENTIFIC PROGRAMME AND DAILY SCHEDULE
CONTINUING MEDICAL EDUCATION (CME) AND SESSION EVALUATIONS

The Excellence in Pediatrics 2015 Conference is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.

The exact designated hours of European external CME credits will be mentioned on your attendance certificate. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

Session Evaluations
Please complete the Evaluation Forms for every Session that you may attend. EIP’s staff will deliver them at the entrance of each hall at the beginning of each programme Section and will collect them at the exit when you are leaving the hall.

The feedback you provide enhances the ability of our Steering Committee and organisation staff to meet attendees’ educational needs.

Session Types

Plenary Keynote Sessions
Single-speaker keynote lectures by leading experts, chosen to inspire as well as educate. Topics will be of broad interest to all who care for children and present state of the art science knowledge related to clinical practice and public health.

Trends & Practice Sections
A unique approach to presenting the latest trends direct from the HBSC survey conducted across 44 countries. Each section features a trends presentation accompanied by tailored practical pediatrics sessions that provide attendees with the latest treatment advice.

Up-to-Date Sessions
Designed to provide clinical updates and practical tips on specific topics that will improve the care general pediatricians deliver in their everyday practice.

Hands-on workshops and Classes
Interactive sessions offering the opportunity to learn and practice specific skills. These sessions include 1 or 2 expert facilitators who will use a variety of didactic formats to teach these skills. Participants can expect to leave the session with practical skills that they can apply in their everyday practice.

Audience Response Sessions
The session format is an effective way to enable presentation and discussion on opposing views about a topic. Audience will be able to interact with the speakers and participate in the discussion.

Health Policy Focus Groups
The EIP Policy Focus Groups are meetings of experts designed to examine current child health policies in sub-specialities of pediatrics and are tasked with identifying barriers that need to be overcome to improve health outcomes.

The concept being that by offering evidence-based recommendations to policymakers and filling education and awareness gaps of healthcare professionals EIP are able to overcome specific barriers, region by region.

There will be 5 Policy Focus Groups taking place at this year’s conference covering: HPV Vaccines, Influenza Vaccines, Meningitis Vaccines, Active Healthy Families, and Rare Diseases & Chronic Conditions. Some of the Focus Groups are for attendance by invitation only, however, all delegates are welcome to attend and participate in the Active Healthy Families Focus Group taking place from 11:30-13:30 on Friday 11 December.
08:00  REGISTRATION DESK OPENING

08:30-09:30  COFFEE START

09:30-11:15  OPENING CEREMONY
Conference Chairs’ Welcome:
JOAN CARLES SURIS and JO INCHLEY

Keynote Address:
Health for the world’s adolescents: a second chance in the second decade
VALENTINA BALTAG
Health Department of Maternal, Newborn, Child and Adolescent Health, World Health Organization

Learning Objectives: At the end of the Address participants will: (1) gain an understanding of the published evidence and consultations with 10 to 19 year olds around of the world; (2) learn the latest overview of the status of the health of worlds’ 1.2 billion adolescents, and the role of health services in improving their health and wellbeing within a multisectoral response; (3) gain an understanding of the key simple yet powerful steps that health care providers and policy makers can take to improve the quality of health care services to their adolescent clients.

Joint Keynote Address:
Child & Adolescent Health Inequalities - Growing gaps and what it means for health practice and health policy
FRANK ELGAR
Canada Research Chair in Social Inequalities in Child Health and Associate Professor of Psychiatry, Institute for Health and Social Policy, McGill University

SERGEY SARGSYAN
Head of Institute of Child and Adolescent Health at Arabkir Medical Centre, Associate Professor of Pediatrics

Learning Objectives: At the end of the Address participants will: (1) understand the secular trends in social inequalities in adolescent mental and physical health; (2) learn about social and structural determinants of adolescent health; and (3) be able to apply evidence on health inequalities to pediatric services to underserved populations.
### DAY 1  |  THURSDAY, 10 DECEMBER 2015  |  MORNING SESSIONS

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Presenter Details</th>
<th>Learning Objectives</th>
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<tr>
<td>11:15-13:00</td>
<td>PEDIATRICS</td>
<td>Assembly Hall</td>
<td><strong>Section 1 on Dermatology</strong>&lt;br&gt;<strong>Section Focus:</strong> Evidence-based care practices and guidelines on infant skincare&lt;br&gt;<strong>Moderator:</strong> ARNOLD ORANJE &amp; DIRK VAN GYSEL</td>
<td><em>Neonatal Skincare Update – Evidence-based care practices and guidelines for bathing, lubrication and antimicrobial skin disinfection of the newborn</em>&lt;br&gt;<strong>DIRK VAN GYSEL,</strong> Belgium&lt;br&gt;Pediatric Dermatologist, European Society for Pediatric Dermatology&lt;br&gt;Learning Objectives: At the end of the Session participants will: (1) understand the barrier function of neonatal skin; (2) learn current optimal neonatal skin care; and (3) understand the potential risks of inappropriate neonatal skin care.</td>
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<td><strong>Presentation 2&gt;</strong>&lt;br&gt;<strong>Preventing atopic dermatitis in infants. An examination of the clinical challenges and approaches to skin barrier protection and restoration</strong>&lt;br&gt;<strong>BARBARA KUNZ,</strong> Germany&lt;br&gt;Specialist Paediatric Dermatologist, Board member of the European Society of Pediatric Dermatology (ESPD)&lt;br&gt;Learning Objectives: At the end of the Session participants will: (1) be able to discern the typical clinical presentation of atopic dermatitis in infants from other inflammatory skin affections; (2) understand pathogenetic factors relevant for the prevention of AD; and (3) understand and review the current evidence regarding putative prevention strategies and skin protective measures for infants with barrier disturbances.</td>
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<td><strong>Presentation 3&gt;</strong>&lt;br&gt;<strong>Maintaining infant skin integrity by reducing exposure to harmful substances in the first 2 years of life</strong>&lt;br&gt;<strong>ARNOLD ORANJE,</strong> Netherlands&lt;br&gt;Professor in Pediatric Dermatology at the Erasmus Medical Center Rotterdam&lt;br&gt;Learning Objectives: At the end of the Session participants will: (1) understand the role of barrier function of neonatal skin and toxic substances; (2) learn current optimal neonatal skin care to prevent toxicities of the child; and (3) understand the potential risks of inappropriate neonatal skin care.</td>
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<td>11:30-12:30</td>
<td>ADOLESCENT MEDICINE</td>
<td>Bishop Partridge Hall</td>
<td><strong>Section 1 on Adolescents Health Conditions and well being</strong>&lt;br&gt;<strong>Section Focus:</strong> Trends and practical advice on common health complaints and injuries among adolescents&lt;br&gt;<strong>Moderator:</strong> SERGEY SARSGYAN</td>
<td><em>A Complaining Adolescent: What Every Clinician Should Know and Do</em>&lt;br&gt;<strong>SERGEY SARSGYAN,</strong> Armenia&lt;br&gt;Head of Institute of Child and Adolescent Health at Arabkir Medical Centre, Associate Professor of Pediatrics&lt;br&gt;Learning Objectives: At the end of the Session participants will: (1) be updated with current knowledge of the most common and specific adolescents health complaints; (2) understand the key determinants affecting the health and development of adolescents; and (3) learn about specificity of history taking, examination and consultancy of adolescents.</td>
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<td><strong>Presentation 2&gt;</strong>&lt;br&gt;<strong>Practical advice covering the 5 most common health complaints identified in the 2014 HBSC Survey</strong>&lt;br&gt;<strong>JANET MCDONAGH,</strong> United Kingdom&lt;br&gt;Clinical Senior Lecturer in Paediatric and Adolescent Rheumatology at the Centre for Musculoskeletal Research at University of Manchester and Honorary Consultant paediatric and adolescent Rheumatologist at Royal Manchester Children’s Hospital&lt;br&gt;Learning Objectives: At the end of the Session participants will: (1) understand the range of common medical problems young people present with in clinical practice; (2) consider the adolescent-specific aspects of these conditions; and (3) learn the general principles of assessment, diagnosis and management of the top 5 of these complaints as identified in the HBSC 2014 survey.</td>
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### Scientific Programme and Daily Schedule

#### Day 1  
**Thursday, 10 December 2015**

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<tr>
<th>Time</th>
<th>Session</th>
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| 11:30-13:00| **Adolescent Medicine**  
Section 1 on Adolescents Social Environments  
*Section Focus: Trends and Practical Advice on adolescents school environment and health*  
Moderator: Joan Carles Suris  
*Presentation 1*  
Children’s and Adolescents’ Shifting Perceptions of Schooling and their Physical and Emotional Well-Being  
*Learning Objectives:* At the end of the Session participants will: (1) understand how perceived school pressure tends to increase with age and is differentiated by gender, with older girls reporting the highest levels of school pressure; (2) learn how systematic differences in schooling and external factors that impact school practices and policies can partially explain observed differences and trends in children’s and adolescents’ perceptions and experiences in school; and (3) understand how, given their unique position, schools and educators can best support children’s positive academic, physical and emotional development.  
*Presentation 2*  
The impact of the school environment on physical and emotional health – exploring opportunities to offer maximum support for the promotion of adolescent health  
*Learning Objectives:* At the end of the Session participants will: (1) understand the impact of the school environment on adolescents’ physical, emotional and psychosocial health; (2) learn about adolescents’ perceptions related to school environments; and (3) gain practical knowledge on how to offer maximum support for schools in order to promote adolescents’ physical, emotional and psychosocial health.  
*Presentation 5*  
Cross-national time trends in bullying victimization in 33 countries among children aged 11, 13 and 15 from 2002 to 2010  
*Learning Objectives:* At the end of the Session participants will: (1) gain an understanding of the different types of violence and their consequences; (2) understand the prevalence of violent behaviour among school going children in Europe and North America; and (3) learn the time trends on violent behaviour based on the HBSC study. | Harvey Goodwin Hall |
| 11:00-12:00| **Class 1**  
The rehabilitation of children with developmental problems  
*Audience Response Session*  
*Learning Objectives:* At the end of the Class participants will: (1) learn the important motor milestones during the first year of life, in normal motor development; (2) understand the signs of abnormal motor development in the first year of life; and (3) understand the importance and possibilities of rehabilitation of children with developmental disabilities, especially cerebral palsy.  
*Svetislav Polovina,* Croatia  
Specialist of Physical Medicine and Rehabilitation, Polyclinic for Physical Medicine and Rehabilitation “Prof.dr.sc. Milena Stožičević Polovina” | Council Hall |
| 12:00-13:00| **Class 2**  
A school nursing perspective on how pediatricians and school nurses can coordinate their efforts to improve outcomes  
*Audience Response Session*  
*Learning Objectives:* At the end of the Class participants will: (1) understand the knowledge and data school nurses have regarding the health of young people and the social determinants that impact them and their families; (2) identify ways to improve communication with schools nurses related to the health and well-being of young people; and (3) consider possible opportunities for coordination with school nurses related to prevention and outreach.  
*Erin Maughan,* United States  
Director of Research, RWJF (Robert Wood Johnson Foundation) Executive Nurse Fellow, National Association of School Nurses | Council Hall |
| 13:00-14:00| **Lunch Break**  
(Lunch served in hall for lecture participants) | |
| 13:00-14:00| **Poster Viewings**  
(Poster Area around Assembly Hall) | |
| 13:00-13:50| **Meeting on the Occasion of EIP - The Latest Progress in Diaper Technologies** | |

*Exhibition Area and Bishop Partridge Hall*
**Conference Programme**

**Daily Programme**

**Thursday, 10 December 2015**

### Afternoon Sessions

#### 14:00-15:30

**Pediatrics and Adolescent Medicine**

**Section 1 on Nutrition and Diets**

*Section Focus: Latest Trends and practical advice on Nutrition and Diets*

**Audience Discussion**

**Moderator:** COLIN MICHE

<table>
<thead>
<tr>
<th>Presentation 1&gt;</th>
<th>Dietary habits in childhood: what's trending?</th>
</tr>
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<tbody>
<tr>
<td><strong>COLETTE KELLY,</strong> Ireland</td>
<td>Health Promotion Research Centre, School of Health Sciences, NUI Galway</td>
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<thead>
<tr>
<th>Presentation 2&gt;</th>
<th>Vitamin D, here, there and everywhere: some management strategies</th>
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<tbody>
<tr>
<td><strong>COLIN MICHE,</strong> United Kingdom</td>
<td>Nutrition Committee Chair, Royal College of Paediatrics &amp; Child Health and Consultant Paediatrician, Ealing Hospital</td>
</tr>
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#### 15:30-16:30

**Pediatrics**

**Section 1 on Vaccinations and infectious diseases**

*Section Focus: Epidemics and vaccination coverage updates*

**Moderator:** ROBERT S DAUM

<table>
<thead>
<tr>
<th>Presentation 1&gt;</th>
<th>Influenza among pediatric outpatients</th>
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<tr>
<td><strong>ROBERT S DAUM,</strong> United States</td>
<td>Professor of Pediatrics, Microbiology, and Molecular Medicine, Director, The University of Chicago MRSA Research Center, Chairman, the Illinois Vaccine Advisory Committee, Chairman, US FDA Vaccine Advisory Committee, USA</td>
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<tr>
<th>Presentation 2&gt;</th>
<th>Meningitis surveillance and vaccination coverage updates – Meningococcal B vaccine introduction in Europe</th>
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<tr>
<td><strong>GEORGE A. SYROGIANNOPoulos,</strong> Greece</td>
<td>Professor and Chairman of Paediatrics, School of Medicine, University of Thessaly, Greece</td>
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</tbody>
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### PEDIATRICS AND ADOLESCENTS MEDICINE

**Section 2 on Children and Adolescents Health Conditions**  
**Focus: Child and Adolescent Common Injuries**  
**Moderator: WILLIAM PICKETT**

#### 14:30-15:45

**Presentation 1>**

**Trends in the occurrence of injury: a cross-national analysis of young people**

**WILLIAM PICKETT, Canada**  
Professor and Head of the Department of Public Health Sciences at Queen’s University in Kingston  

**Learning Objectives:** At the end of the Session participants will: (1) understand the basic aspects of the epidemiology of fatal and non-fatal injury among young people in a large number of countries; (2) learn the latest trends in the occurrence of injury over time, and understand possible determinants of the observed trends; and (3) understand the possible opportunities for prevention, as inferred from these descriptive findings.

**Presentation 2>**

**Treatment and response recommendations for the most common pediatric injuries in children and adolescents**

**DAMIAN ROLAND, United Kingdom**  
Consultant and Post-Doctoral Research Fellow in Paediatric Emergency Medicine, University of Leicester  

**Learning Objectives:** At the end of the Session participants will: (1) understand the spectrum of minor injuries in pediatric practice (2) learn how to recognise red flags in acute injuries; and (3) understand the limited evidence of treatment modalities in this area.  

**Presentation 3>**

**Children and Adolescents Health Conditions and Medicine Use**

**INESE GOBINA, Latvia**  
Assistant Professor, Department of Public Health and Epidemiology, Riga Stradins University  

**Learning Objectives:** At the end of the Session participants will: (1) understand the phenomena of medicine use; (2) be able to identify and understand the contributing individual and contextual factors of medicine use among adolescents; and (3) learn the latest international trends of medicine use among adolescents in the general population.

### ADOLESCENTS MEDICINE

**Section 2 on Adolescents Social Environments and Mental Health**  
**Focus: What a child and adolescent practitioner should know**  
**Moderator: JOAN CARLES SURIS**

#### 14:00-15:30

**Health, wellbeing and peer violence among immigrant and non immigrant adolescents: Data from the HBSC**

**SOPHIE D. WALSH, Israel**  
GONNEKE STEVENS, Netherlands  

**Learning Objectives:** The session will: (1) Examine how immigrant adolescents, both first and second generation, fare in terms of measures of wellbeing as compared with non-immigrant adolescents; (2) Explore the effect of an increasing number of immigrant adolescents in schools on levels of peer violence; and (3) Discuss potential for prevention, intervention and future studies in this context.

**Body image among adolescents - raising awareness of its changing role in mental wellbeing of young people**

**ROSS WHITEHEAD, United Kingdom**  
ALINA COSMA, United Kingdom  

**Learning Objectives:** The Session will: (1) Illustrate the time trends for several mental health and well-being outcomes among 11-15 year olds using data from seven rounds of the HBSC study in Scotland (1990-2014). These include psychological and somatic complaints, happiness, confidence among other indicators. (2) Explore the role played by body image in the changing prevalence of these mental health indicators over time. (3) Explore potential for prevention and future studies in this context.
**DAILY PROGRAMME**

**THURSDAY, 10 DECEMBER 2015**

**ADOLESCENTS MEDICINE**

**Section 3 on Adolescents Social Environments**

*Focus: The importance of parental communication*

**Moderator:** JOAN CARLES SURIS

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**Presentation 1**

**Adolescent perceptions of parental communication in Europe and North America 2002-2010: A protective health asset**

**FIONA BROOKS,** United Kingdom

Head of Adolescent and Child Health, University of Hertfordshire

**Learning Objectives:** At the end of the Session participants will: (1) gain a clear understanding of up to date trends in adolescent health and well-being in relation to family communication; (2) gain an understanding of differences in family communication across Europe and North America; and (3) understand the relationship between protective health assets, family communication and young people’s health.

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**Presentation 2**

**Part of the solution: integrating parents in the adolescent consultation**

**JOAN CARLES SURIS,** Switzerland

Conference Co-Chair, Institute of Social and Preventive Medicine and Department of Pediatrics, Lausanne University Hospital

**Learning Objectives:** At the end of the Session participants will: (1) understand the importance of parents and family in adolescent health care; (2) learn how parents and family members can be involved in adolescent health care; and (3) learn practical strategies to involve parents and family units.

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**CLASS 3**

**Beyond Humor: The Medical Clown as an Integral Part of the Diagnostic and Therapeutic Health Team**

**Audience Response Session**

**ARThUR eIDELMAN,** Israel

Professor Pediatrics (Emeritus), Shaare Zedek Medical Center, Hebrew University School of Medicine, Faculty of Health Sciences Ben Gurion University of the Negev, Past President, Academy Breastfeeding Medicine Editor-in-Chief, Breastfeeding Medicine

**Learning Objectives:** At the end of the Class participants will: (1) understand the techniques that the Medical Clown utilizes to facilitate the care of the patient; (2) learn how to integrate the Medical Clown into the routines of the hospital; and (3) learn how to integrate the Medical Clown with the activities of other paraprofessionals.

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**16:30-17:00**  **COFFEE BREAK**

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**CLASS 4**

**A profile of the spiritual health of young people in six countries in Pediatrics**

**Audience Response Session**

**WILLIAM PICKETT,** Canada

Professor and Head of the Department of Public Health Sciences at Queen’s University in Kingston

**Learning Objectives:** At the end of the Class participants will: (1) understand the concept of spiritual health, as a fourth dimension of health experienced by young people; (2) learn the demographic trends and observed inequalities in spiritual health, and the practical reasons for such trends and patterns; and (3) be able to identify practical opportunities for the promotion of health in young people, as inferred from the spiritual health findings.
CONTROVERSIES IN PEDIATRICS

Home hygiene and childhood health - Practical advice for pediatricians and parents. Is there a limit?

Learning Objectives: At the end of the Session participants will: (1) understand the importance of hand hygiene in disease transmission in children; (2) when and where is the greatest exposure to hand contamination; and (3) advice to give on good hygiene practice.

Assembly Hall

17:00-18:00

HANDS-ON WORKSHOP

Rheumatology for the Pediatrician: How to approach a child with joint pain - diagnosis and treatment methods

Learning Objectives: At the end of the Session participants will: (1) understand the best approach to diagnose and treat a child with joint symptoms; (2) gain knowledge of juvenile arthritis; and (3) understand the causes of back pain and hip pain in children.

Bishop Partridge Hall

17:00-18:00

CLASS 5

Acne and acneiform eruptions

Learning Objectives: At the end of the Session participants will learn: (1) the physiopathologic aspects of acne with respect to diagnosis and therapy; (2) the differential diagnostic aspects of acneiform eruptions; and (3) the treatment of acne and new guideline differences in 2015.

Harvey Goodwin Hall

17:00-18:00

WELCOME RECEPTION (Exhibition Hall)

18:00-19:00
# Friday, 11 December 2015 | Morning Sessions

## 08:00-09:00 Coffee Start

### 09:00 - 09:45

**Section on Chronic Conditions**

**An inclusive perspective on adolescents’ health: challenges for researchers and clinicians**

- **Emmanuelle Godeau**, France
- **Pernille Due**, Denmark

**Learning Objectives:** At the end of the Session participants will: (1) Measure the challenges of self-evaluation of chronic conditions among adolescents in population surveys (2) Share efforts to capture the self-perception of their health and health behaviours by students with chronic conditions. (3) Capture possible opportunities for collaboration with clinicians and practitioners through country level examples - France and Denmark.

## 09:45-11:00

**Section 1 on Rare Diseases and Chronic Conditions**

**Presentation 1:** Epidemiology of rare disease - impact on a national and international child health

- **Richard Reading**, United Kingdom
  
  **Consultant Community Paediatrician, Norfolk and Norwich University Hospital, Chair BPSU**

  **Learning Objectives:** At the end of the Session participants will: (1) understand how active pediatric rare disease surveillance can be developed in their country; (2) understand how rare disease epidemiology can address public health concerns; and (3) learn about the importance of multi-source ascertainment in undertaking rare disease surveillance.

**Presentation 2:** Progressive intellectual and neurological deterioration – identifying the syndromes

- **Chris Verity**, United Kingdom
  
  **Consultant Paediatric Neurologist, Addenbrooke’s Hospital, BPSU**

  **Learning Objectives:** At the end of the Session participants will: (1) learn how this study provides a model for the systematic epidemiological surveillance of a complex mixture of diseases in childhood provided by this surveillance; (2) understand the need to obtain patient identifiable data when there is significant concern about public health; and (3) understand and learn from the unique data about the epidemiology of pediatric neurodegenerative disease provided by this study.

**Presentation 3:** HIV and congenital rubella - has the corner been turned?

- **Pat Tookey**, United Kingdom
  
  **Epidemiologist and Senior Lecturer, Population, Policy and Practice Programme, UCL Institute of Child Health, London**

  **Learning Objectives:** At the end of the Session participants will: (1) understand the challenges and benefits of long term national surveillance of two very different infections in the context of changing management strategies and epidemiology; (2) learn the benefits of the parallel obstetric and paediatric HIV reporting systems; and (3) understand the continued importance of national surveillance even though there are only one or two congenital rubella cases currently reported each year in the UK.
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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Location</th>
<th>Description</th>
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<tr>
<td>09:00-11:00</td>
<td><strong>ADOLESCENT MEDICINE</strong>&lt;br&gt;Section on Adolescents Sexual Life and Protection&lt;br&gt;Section Focus: Latest Trends and practical advice on Adolescents Sexual life, puberty and Cervical cancer protection&lt;br&gt;Moderator: PHILIP CASTLE</td>
<td>- <strong>Gendered trends in early and very early sex and condom use in 20 European countries from 2002 to 2010</strong>&lt;br&gt;LUCIA RAMIRO, Portugal&lt;br&gt;Teacher, Master in Sexology and PhD and PostDoc in Health Education&lt;br&gt;<strong>Learning Objectives:</strong> At the end of the Session participants will: (1) understand whether the trends demonstrate an increase or decrease in the prevalence of sexual intercourse; (2) understand what the latest trends show regarding adolescents having sexual intercourse at an earlier or older age over time; and (3) understand whether condom use at last sexual intercourse is increasing or decreasing.</td>
<td>Bishop Partridge Hall</td>
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<td><strong>Overcoming Vaccine Hesitancy: Lessons to be Learned from the HPV Vaccination Programme in Japan</strong>&lt;br&gt;SHARON HANLEY, Japan&lt;br&gt;Cancer Epidemiologist and Assistant Professor, Department of Women’s Health Medicine, Hokkaido University, Japan&lt;br&gt;<strong>Learning Objectives:</strong> At the end of the Session participants will: (1) understand the concept and determinants of vaccine hesitancy and the multi-component interventions available to address this problem; (2) learn the political, socio-cultural and health system factors that have led to the continued suspension of proactive recommendations for HPV Vaccination in Japan; and (3) understand the possible strategies to avoid a repeat of the Japanese HPV Vaccination crisis by referring to countries with successful HPV vaccination programmes who faced and overcame similar issues.</td>
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<td><strong>European Cervical Cancer surveillance and HPV Vaccination coverage update</strong>&lt;br&gt;MARC VAN RANST, Belgium&lt;br&gt;Virologist and Epidemiologist at the Katholieke Universiteit Leuven and the Rega Institute for Medical Research&lt;br&gt;<strong>Learning Objectives:</strong> At the end of the Session participants will: (1) be able to interpret the latest trends in HPV vaccination coverage in Europe; (2) understand the different HPV vaccination strategies throughout Europe; and (3) learn ways of improving vaccination policies locally.</td>
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<td><strong>Epidemiology of human papillomaviruses (HPV) and cervical/anogenital cancer - from science to cancer prevention strategies</strong>&lt;br&gt;PHILIP CASTLE, United States&lt;br&gt;Executive Director of Global Cancer Initiative (Chesterstown, MD), and the Executive Director of the Global Coalition against Cervical Cancer&lt;br&gt;<strong>Learning Objectives:</strong> At the end of the Session participants will: (1) understand the natural history of human papillomavirus (HPV) and cervical cancer; (2) learn about the benefits and harms of HPV vaccination; (3) Gain knowledge about the optimal populations to be targeted for HPV vaccination; and (4) understand the continued importance of cervical cancer screening.</td>
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<td><strong>Cervivor: a game-changer in the world of cervical cancer advocacy</strong>&lt;br&gt;TAMIKA FELDER, United States&lt;br&gt;President Tamika and Friends&lt;br&gt;<strong>Learning Objectives:</strong> At the end of the Session participants will: (1) have a greater understanding of the post traumatic stress and stigma of having cervical cancer; (2) understand how to assist patients/survivors talk about their experience in ways that will help prevent others from going through a cervical cancer diagnosis; and (3) learn about the Cervivor way of eradication of disease by creating patient advocates who are messengers for a cause.</td>
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### Scientific Programme and Daily Schedule

#### DAY 2  FRIDAY, 11 DECEMBER 2015  |  MORNING SESSIONS

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Presenter(s)</th>
<th>Learning Objectives</th>
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</table>
| 09:00-11:00 | **ADOLESCENT MEDICINE**  
Section 3 on Adolescents Health Condition and Well Being  
Section Focus: Trends and practical advice on adolescent’s Health perception and life satisfaction  
Moderator: FIONA BROOKS | Harvey Goodwin Hall | - **Presentation 1>**  
Adolescent’s perception of their own health in Europe and North America: what has changed since 2002?  
**FRANCO CAVALLO, Italy**  
Dept. of Public health and Paediatrics, School of Medicine, University of Torino  
**Learning Objectives:** At the end of the Session participants will: (1) be able to compare different estimates of adolescent’s well-being and self-rated health across the different European countries; (2) be able to describe trends concerning the two variables in the different countries; and (3) be able to compare different trends across groups of countries. |
|          | **Presentation 2>**  
Trends in adolescent life satisfaction and its social and health determinants, 2002-2010  
**FIONA BROOKS, United Kingdom & MARGARETHA DE LOOZE, Netherlands**  
**Learning Objectives:** At the end of the Session participants will: (1) gain a clear understanding of up to date trends in adolescent health and well-being in relation to life satisfaction; (2) gain an understanding of the differences in adolescent life satisfaction across Europe and North America; and (3) understand the relationship between life satisfaction and key determinants of young people’s health and well-being.  
**FIONA BROOKS:** Head of Adolescent and Child Health, University of Hertfordshire, MARGARETHA DE LOOZE: Assistant Professor of Interdisciplinary Social Sciences at Utrecht University | | |
|          | **Presentation 3>**  
The link between life satisfaction and health and how practitioners can better use measures of quality of life to assess the child’s health  
**LUTZ GOLDBECK, Germany**  
Professor for Child and Adolescent Psychiatry/Psychotherapy, University Hospital ULM  
**Learning Objectives:** At the end of the Session participants will: (1) understand factors moderating the correlation between objective and subjective health; (2) learn the different approaches to measure the quality of life of children and adolescents; and (3) learn about standardized assessment of quality of life as a strategy to improve support for patients with chronic conditions. | | |
| 11:00-11:30 | **COFFEE BREAK** | Bishop Partridge Hall | | |
| 11:30-12:30 | **ADOLESCENTS MEDICINE**  
Section on Oral Health  
Section Focus: Is there a role for pediatricians and general practitioners to intervene in children’s and adolescents’ oral health?  
Moderator: SISKO HONKALA | Bishop Partridge Hall | - **Presentation 1>**  
Regular toothbrushing habits - a health-promoting behaviour  
**SISKO HONKALA, Finland**  
Associate Professor in Oral Public Health, Faculty of Medicine, University of Helsinki, Finland  
**Learning Objectives:** At the end of the Session participants will: (1) understand the importance of toothbrushing in preventing oral diseases; (2) learn the vital importance of adoption of toothbrushing habits early in life; (3) understand the role of oral health as a part of general health. |
|          | **Presentation 2>**  
The pediatrician’s role in promoting good oral health in improving pediatric and adolescent oral health  
**S. SONGUL YALÇIN, Turkey**  
Professor at University of Hacettepe, Faculty of Medicine, Unit of Social Pediatrics and Unit of Developmental Pediatrics  
**Learning Objectives:** At the end of the Session participants will: (1) explain oral health developmental stages; (2) identify risk assessments for dental problems; (3) describe disease prevention strategies; (4) describe how to prevent and respond to oral problems; and (5) educate parents about when children should visit the dentist. | | |
DAY 2  |  FRIDAY, 11 DECEMBER 2015  |  MORNING SESSIONS

**11:30-13:20 PEDIATRICS**

**Section 2 on Rare Diseases and Chronic Conditions**

*Section Focus: Practical advice on spotting the signs of Rare Diseases and Chronic Conditions in the everyday practice*

**Moderator: ATHIMALAIPET RAMANAN**

**Presentation 1>**

**Avoiding the common problems of misdiagnosis in relation to Juvenile Arthritis**

ATHIMALAIPET RAMANAN, United Kingdom

United Kingdom, Consultant Paediatric Rheumatologist Bristol Royal Hospital for Children & Royal National Hospital for Rheumatic Diseases, Bath

**Learning Objectives:**
1. Understand age of onset of arthritis, presenting symptoms and signs;
2. Be aware of important differential diagnosis including malignancy;
3. Understand value of history and examination and avoid too much reliance on autoimmune tests.

**Presentation 2>**

**Preparing yourself to spot the early signs of Cystinosis**

WILLIAM VAN'T HOFF, United Kingdom

Consultant Paediatric Nephrologist, Great Ormond Street Hospital for Children

Latest Learning Objectives available online

**Presentation 3>**

**Could this be a primary immunodeficiency? Clues from history and type of infection**

ANDERS FASTH, Sweden

Professor of Pediatric Immunology at University of Gothenburg, and at Division of Immunology, The Queen Silvia Children’s Hospital

**Learning Objectives:**
1. Know the frequency of and type of infections among normal children according to age;
2. Understand the warning signs for primary immunodeficiencies, when to suspect and to investigate a child for a possible immunodeficiency as well as important differential diagnosis;
3. Understand the primary immunodeficiencies that are typical for different age groups.

**Presentation 4>**

**When to suspect a diagnosis of lysosomal disorders in children**

UMA RAMASWAMI, United Kingdom

Consultant Metabolic Paediatrician, Lysosomal Disorders Unit, Institute of Immunity and Transplantation, Royal Free Hospital

**Learning Objectives:**
1. Offer a basic overview of lysosomal biology and its function;
2. Recognition of various organ involvement; symptoms and signs in childhood that are clues to an underlying LSD;
3. A basic understanding of treatments on the horizon.

**Presentation 5>**

**Spotting the signs of kidney disease in children**

RICHARD TROMPETTER, United Kingdom

Emeritus Consultant Paediatric Nephrologist at Great Ormond Street Hospital for Children

**Learning Objectives:**
1. Be able to identify the common presenting signs and symptoms of kidney disease;
2. Understand the relevance and importance of investigation; and
3. Understand the long-term implications of signs being missed.

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<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>13:20-14:30</td>
<td>LUNCH BREAK (Exhibition Area and Bishop Partridge Hall)</td>
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<tr>
<td>13:30-14:30</td>
<td>POSTER VIEWINGS (Poster Area around Assembly Hall)</td>
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<td>13:30-14:30</td>
<td>MEETING ON THE OCCASION OF EIP - A Sherlock Holmes approach to detecting treatable Lysosomal Storage Disorders Lunch served in hall for lecture participants</td>
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</table>
DAY 2  FRIDAY, 11 DECEMBER 2015  I  AFTERNOON SESSIONS

15:00-16:00  PEDiATRICS

Section 3 on Rare Diseases and Chronic Conditions
Section Focus: The physician / patient interaction and perspective in Rare Diseases and Chronic Conditions
Moderator: ATHIMALAIPEt RAMANAN

Presentation 1>
Cystinosis - Early Diagnosis and Patient Support - Pediatricians effectively working with Patients’ Groups

VALERIE HOTZ, United States
Executive Director, Cystinosis Foundation

Learning Objectives: At the end of the Session participants will: (1) understand the symptoms of Nephropathic Cystinosis and their similarity to Diabetes, and the resultant risk of misdiagnosis; (2) understand the importance of collaboration among healthcare professionals, families/patients to care for patient including referral to established Cystinosis patient support group to improve long-term outcomes; and (3) learn how to promote all stakeholders remaining open to hearing one another to improve the care for the patient.

Presentation 2>
MPS Society: The importance of early diagnosis and the practical support healthcare professionals can offer children diagnosed with LSDs (MPS & Fabry)

CHRISTINE LAVERY, United Kingdom
Chief Executive at the MPS Society United Kingdom

Learning Objectives: At the end of the Session participants will: (1) understand how pediatricians can better support children diagnosed with LSD conditions; (2) how should support be approached and how may this differ from general pediatric care; and (3) learn how things could be improved or done differently to ensure the best outcomes and experience for patients.

Presentation 3>
Putting the Patient First - Patient-centric approaches to the treatment of children with a suspected rare disease - Tuberous Sclerosis

JAYNE SPINK, United Kingdom
CEO, Tuberous Sclerosis Association

Learning Objectives: At the end of the Session participants will: (1) understand the wide variation in how children are affected by tuberous sclerosis, and how this may change over time; (2) gain an appreciation of the possible wider impacts of TSC on the family; and (3) learn what support might be helpful to families and the ways in which support needs can be met.

16:00-17:00  PEDiATRICS AND ADOLESCENTS MEDiCINE

Section 4 on Rare Diseases and Chronic Conditions
Section Focus: Chronic Conditions - The transition from paediatric / adolescent to adult care

The Team Approach - the effective transition from pediatric/adolescent to adult care

RICHARD TROMPETTER, United Kingdom
Emeritus Consultant Paediatric Nephrologist at Great Ormond Street Hospital for Children.

JANET McDONAGH, United Kingdom
Clinical Senior Lecturer in Paediatric and Adolescent Rheumatology at the Centre for Musculoskeletal Research at University of Manchester and Honorary Consultant paediatric and adolescent Rheumatologist at Royal Manchester Children’s Hospital.

Learning Objectives: At the end of the Session participants will: (1) learn the issues surrounding adolescent to adult care transfer; (2) understand the need for careful transition in pediatric patients with kidney disease; and (3) learn the rewards of successful transition.
**Presentation 1> Overcoming Vaccine hesitancy**

**MARC VAN RANST, Belgium**

Virologist and Epidemiologist at the Katholieke Universiteit Leuven and the Rega Institute for Medical Research

**Learning Objectives:** At the end of the Session participants will: (1) understand the historical roots of anti-vaccination sentiments; (2) understand the causes of vaccine hesitancy; and (3) learn how to overcome vaccine hesitancy.

**Presentation 2> Meningitis Update – The latest recommendations and guidelines for the meningitis vaccination of adolescents**

**GEORGE A. SYROGIANNOPoulos, Greece**

Professor and Chairman of Paediatrics at the University of Thessaly, School of Medicine in Larissa

**Learning Objectives:** At the end of the Session participants will: (1) learn that the highest incidence of meningococcal disease occurs in children under 5 years of age, but a second peak occurs in adolescents and higher case fatality rates are generally reported in this age group; (2) understand that children are being immunized in infancy with the meningococcal serogroup C conjugate vaccine; (3) learn that as children get older the protective antibody titres against meningococcal serogroup C are waning; and (4) adolescents need to receive a booster dose and currently a quadrivalent meningococcal conjugate vaccine (MenACWY), offering coverage against serogroup C, as well against serogroups A, Y and W135, is recommended.

**Presentation 3> The Indirect Effects of Live Attenuated Flu Vaccine**

**ADAM FINN, United Kingdom**

Professor of Paediatrics at the University of Bristol, United Kingdom

**Learning Objectives:** At the end of the Session participants will: (1) understand the nature of live attenuated influenza vaccine (LAIV); (2) learn about the universal LAIV programme for children in the UK; and (3) learn what is and is not known about the potential of LAIV to interrupt transmission at the population level.

**Presentation 4> The association between good vaccination coverage and lower incidence of sudden infant death syndrome - USA data Case Study**

**JACQUELINE MULLER-NORDHORN, Germany**

Professor and Head of Public Health at the Berlin School of Public Health, Charité

**Learning Objectives:** At the end of the Session participants will: (1) learn how rates of sudden infant death syndrome have been decreasing constantly; (2) understand how increased vaccination coverage with diphtheria-tetanus-pertussis has been associated with lower rates of sudden infant death syndrome; and (3) understand the inverse relation between diphtheria-tetanus-pertussis vaccination coverage and sudden infant death syndrome persists even after adjusting for infant sleep position.

**Presentation 5> The management of skin and soft tissue infections (SSTIs) in the out patients**

**ROBERT S DAUM, United States**

Professor of Pediatrics, Microbiology, and Molecular Medicine, Director, The University of Chicago MRSA Research Center, Chairman, the Illinois Vaccine Advisory Committee, Chairman, US FDA Vaccine Advisory Committee, USA

**Learning Objectives:** At the end of the Session participants will learn: (1) what is the correct management of SSTIs; (2) what is the status of vaccines against S aureus; and (3) what is the role of the household in maintaining S aureus infections.
<table>
<thead>
<tr>
<th>Presentation 1</th>
<th>Secular trends in moderate-to-vigorous physical activity in 32 countries from 2002 to 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MICHAL KALMAN</strong>, Czech Republic</td>
<td><strong>Institute of Active Lifestyle, Faculty of Physical Culture</strong></td>
</tr>
<tr>
<td><strong>Learning Objectives:</strong> At the end of the Session participants will: (1) learn of the recent trend between 2002 and 2010 showing a small overall increase in the proportion of adolescents meeting current PA guidelines in 32 countries across Europe and North America; (2) understand the trends at a country level, which show a positive trend was observed among boys in 16 countries and among girls in 10 countries; and (3) understand and be able to take the further actions which are needed on a local, national and international level to improve PA levels among the adolescent population.</td>
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<thead>
<tr>
<th>Presentation 2</th>
<th>The Benefits of Exercise in Kids; How to Help Get Them Moving</th>
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</thead>
<tbody>
<tr>
<td><strong>BOB SALLIS</strong>, United States</td>
<td><strong>Active Healthy Families Initiative Chair, Chairman for the Exercise is Medicine Initiative of the American College of Sports Medicine (ACSM)</strong></td>
</tr>
<tr>
<td><strong>Learning Objectives:</strong> At the end of the Session participants will: (1) understand the woeful state of physical activity in kids today and the implications for future health; (2) learn the positive effects of exercise in treating and preventing disease; and (3) understand the powerful effect of exercise on brain health and its effect on test scores and behaviour.</td>
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<tr>
<th>Presentation 3</th>
<th>Overweight prevalence trends over 8 years among nationally representative samples of 11-, 13- and 15- year olds in Europe and North America</th>
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</thead>
<tbody>
<tr>
<td><strong>NAMANJEE AHLUWALIA</strong>, United States</td>
<td><strong>Chair, Nutrition Epidemiology Research Interest Section, American Society of Nutrition; Adjunct Professor, Pennsylvania State University; Nutrition Monitoring Advisor, NHANES, NCHS, CDC</strong></td>
</tr>
<tr>
<td><strong>Learning Objectives:</strong> At the end of the Session participants will: (1) understand the complex epidemiology of overweight in kids; (2) learn the time trends in the prevalence of overweight in 11-, 13-, and 15-year olds in 25 countries in the HBSC survey from 2002-2010; and (3) understand the geographic patterns in overweight prevalence trends during these 3 survey cycles of the HBSC study.</td>
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<tr>
<th>Presentation 4</th>
<th>Prevention of Childhood Obesity and Health inequities - The EPODE approach</th>
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<tbody>
<tr>
<td><strong>JEAN-MICHEL BORYS</strong>, France</td>
<td><strong>Director of the EPODE European Network and Secretary General EPODE International Network</strong></td>
</tr>
<tr>
<td><strong>Learning Objectives:</strong> At the end of the Session participants will: (1) understand the importance of a multistakeholder approach to prevent childhood obesity bridge the gap between health inequities long term prevention approach; (2) understand their peers’ experiences from a discussion on the implementation of successful public-health initiatives and community-based programs to help close the gap on health inequities; and (3) understand the learnings which can be taken from the EPHE (EPODE for the Promotion of Health Equity) project and how these findings can be used to guide the development of community-based programs.</td>
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<tr>
<th>Presentation 5</th>
<th>Importance of sedentary behavior research – Findings from the HBSC study</th>
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<tbody>
<tr>
<td><strong>JENS BUCKSCH</strong>, Germany</td>
<td><strong>Bielefeld University, School of Public Health, Department of Prevention and Health Promotion</strong></td>
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<tr>
<td><strong>Learning Objectives:</strong> At the end of the Session participants will: (1) understand the importance of sedentary behaviour research in conjunction with physical activity research; (2) learn the recent trends in the prevalence in screen time behaviours; and (3) learn the recent trends in screen time behaviours.</td>
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<tr>
<th>Presentation 6</th>
<th>Changing habits, changing lives - providing practical advice for overcoming sedentary behaviour in children</th>
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<tbody>
<tr>
<td><strong>MIKE LOOSEMORE</strong>, United Kingdom</td>
<td><strong>Consultant, Sport and exercise medicine at English Institute of Sports</strong></td>
</tr>
<tr>
<td><strong>Learning Objectives:</strong> At the end of the Session participants will: (1) understand the issues of inactivity in children; (2) understand how this will affect the population in the coming years; and (3) a practical solution, change behaviour.</td>
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</table>
PEDIATRICS AND ADOLESCENTS MEDICINE
Section on Child and Adolescent Mental Health
Section Focus: What frontline physicians should advise in relation to child and adolescent mental health
Audience Discussion

The effective diagnosis of a child with ADHD - avoiding the common problems with diagnosis and referral.

Audience Discussion: Is it appropriate or necessary to treat children 4 to 5 years of age with ADHD using stimulant medications?

MICHAEL FITZGERALD, Ireland
Professor of Child and Adolescent Psychiatry

Learning Objectives: At the end of the Session participants will: (1) learn how to conduct ADHD diagnosis within the ordinary OPD session; (2) learn how to identify a small number of ADHD plus severe comorbidity that require referral; and (3) be updated on best practice in the treatment of most patients with ADHD.

HANDS-ON WORKSHOP
Sports Medicine: Examination skills of the musculoskeletal system - pediatric knee exam
Audience Response Session

BOB SALLIS, United States
Clinical Professor of Family Medicine, UC Riverside School of Medicine, USA, Co-Director, Sports Medicine Fellowship, Kaiser Permanente, Chair, Exercise is Medicine

MIKE LOOSEMORE, United Kingdom
Consultant, Sport and exercise medicine at English Institute of Sports

COURTNEY KIPPS, United Kingdom
Principal Clinical Teaching Fellow and Consultant in Sport and Exercise Medicine The Institute of Sport, Exercise & Health UCL

Learning Objectives: At the end of the Session participants will: (1) understand the common causes of knee pain in children; (2) learn the important history questions that should be asked of any child presenting with knee pain; and (3) understand and be able to practice important exam maneuvers necessary to effectively evaluate an injured knee in a child.

HANDS-ON WORKSHOP
Neonatology - The late preterm: A Clinical Challenge for the Community Based Physician
Audience Response Session

ARTHUR EIDELMAN, Israel
Professor Pediatrics (Emeritus), Shaare Zedek Medical Center, Hebrew University School of Medicine, Faculty of Health Sciences Ben Gurion University of the Negev, Past President, Academy Breastfeeding Medicine Editor-in-Chief, Breastfeeding Medicine

Learning Objectives: At the end of the Session participants will: (1) learn what is the definition of what is a ‘the late preterm’ infant; (2) understand the clinical difference (physiologic and behavioral) between the late preterm and term infant; and (3) be updated on the responsibilities of the community physician to monitor the special needs of the preterm infant.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Facilitator(s)</th>
<th>Learning Objectives</th>
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<tbody>
<tr>
<td>08:00-9:30</td>
<td>COFFEE START</td>
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<tr>
<td>09:30-11:30</td>
<td>ADOLESCENTS MEDICINE</td>
<td>Bishop Partridge Hall</td>
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<td><strong>Section on substances and intoxication</strong></td>
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<td><strong>Section Focus:</strong> Trends and practical advice on Tobacco and Alcohol use among adolescents. What a healthcare professional should know**</td>
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<td><strong>Moderator:</strong> JOAN CARLES SURIS</td>
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<tr>
<td>Presentation 1&gt;</td>
<td>Trends in the co-occurrence of tobacco and cannabis use in 15-year-olds</td>
<td></td>
<td>ANNE HUBLET, Belgium</td>
<td>Learning Objectives: At the end of the Session participants will: (1) be updated on the current epidemiology of tobacco and cannabis use in youngsters; (2) understand the profiles of these youngsters based on socio-demographic and personal determinants; and (3) understand the conclusions which can be drawn from the results for prevention.</td>
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<tr>
<td>Presentation 2&gt;</td>
<td>Decrease in adolescent alcohol use in Europe and North America: Evidence from 28 countries, 2002-2010</td>
<td></td>
<td>MARGARETHA DE LOOZE, Netherlands</td>
<td>Learning Objectives: At the end of the Session participants will: (1) gain a clear understanding of recent trends in adolescent alcohol use in Europe and North America; (2) gain an understanding of differences in adolescent alcohol use across European and North American countries; and (3) learn about potential explanations for the observed trends and cross-national differences in prevalence rates of adolescent alcohol use.</td>
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<tr>
<td>Presentation 3&gt;</td>
<td>Addressing tobacco and cannabis use in primary care</td>
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<td>JOAN CARLES SURIS, Switzerland</td>
<td>Learning Objectives: At the end of the Session participants will: (1) be familiar with the intertwined relationship between tobacco and cannabis consumption; (2) understand the different approaches to detect and address tobacco and cannabis use in a primary care consultation; and (3) learn and be able to employ strategies to reduce tobacco and cannabis use.</td>
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</tbody>
</table>
08:30-09:30  COFFEE START

09:30-11:30  PEDIATRICS

Section 2 on Nutrition and Diets
Section Focus: Introduction to solid food
Moderator: KATIE ALLEN

Presentation 1>
Understanding and applying the latest guidelines for identifying food allergies in children

KATIE ALLEN, Australia
Professor Paediatric Gastroenterologist and Allergist, Director Population Health at the Murdoch Childrens Research Institute.

Learning Objectives: At the end of the Session participants will: (1) understand how IgE mediated presents and how to diagnose and optimally manage this condition; (2) understand the prevalence of food allergy and the evidence for whether it is on the rise; and (3) understand the role modifiable lifestyle factors (such as infant feeding) play in modifying the risk of food allergy.

Presentation 2>
Cow’s milk allergy – more than just IgE

LEANNE GOH, United Kingdom
Consultant in General Paediatrics and Paediatric Allergy at University College London Hospitals

Learning Objectives: At the end of the Session participants will: (1) understand what cow’s milk protein allergy is; (2) learn the common presentations with a particular focus on non-IgE mediated disease; and (3) understand and be able to practice management strategies.

Presentation 3>
Feeding the allergic child

SOPHIA KALLIS, United Kingdom
Paediatric Allergy Dietitian, UCLH

Learning Objectives: At the end of the Session participants will: (1) understand the evidence for primary and secondary prevention of atopy; (2) To understand the trial elimination diet and choice of specialist feeds; and (3) understand how and when to reintroduce allergens back into the diet.

Presentation 4>
Pediatric Gastroenterology & Nutrition Update - from Diet to Digestive Health

KATIE ALLEN, Australia
Professor Paediatric Gastroenterologist and Allergist, Director Population Health at the Murdoch Childrens Research Institute.

Learning Objectives: At the end of the Session participants will: (1) understand how non-IgE mediated food allergies present and what is known about the underlying mechanisms of the disease; (2) understand how are they best managed; and (3) learn the natural history of these conditions and if there are prognostic indicators for resolution.

11:30-12:00  CLOSING PLENARY LECTURE

What can we do to combat the obesity epidemic?

TERENCE STEPHENSON, United Kingdom
Nuffield Professor of Child Health, Institute of Child Health, UCL, Chair General Medical Council United Kingdom

Learning Objectives: At the end of the Session participants will: (1) understand the evidence that there is an obesity epidemic among young people in a large number of countries; (2) be updated on the short and long term consequences of this for children and young people; and (3) learn about possible opportunities for prevention using public health interventions.

12:00-12:30  CONFERENCE CLOSING REMARKS

CHAIRS: TERENCE STEPHENSON, JOAN CARLES SURIS, JO INCHLEY
PROFESSIONAL DEVELOPMENT SESSIONS

FRIDAY 11 DEC
14:30-16:00
PROFESSIONAL DEVELOPMENT
Workshop: Discovering Leadership - to engage, develop and transform
Interactive Session

Module 1 - Leadership and Team Development

There is nothing greater than great leadership, not for what it is in itself but for what it enables others to achieve, create and become.
This session will be an opportunity to develop your understanding of leadership, particularly team leadership and team development. It will encourage you to consider afresh the question “what sort of leader do I want to be?” and to explore this through some contemporary perspectives such as transformational leadership and collective leadership. Within this we will consider the characteristics of high-performing teams and the leader’s role in supporting teams to develop and flourish.
This session will explore:
- What sort of leader do you want to be?
- What are your strengths, passions, blind spots and aspirations for development?
- What are the characteristics of both high performing and dysfunctional teams?
- And how can you promote and empower collaborative teamwork?

Facilitators:
ALISON JOHNS, United Kingdom
Chief Executive of the Leadership Foundation for Higher Education
DOUG PARKIN, United Kingdom
Programme Director of the Leadership Foundation for Higher Education

SATURDAY 12 DEC
09:30-11:00
PROFESSIONAL DEVELOPMENT
Workshop: Discovering Leadership - to engage, develop and transform
Interactive Session

Module 2 - Leading Change in a Complex Environment

“Today, the most important question for any organization is this: are we changing as fast as the world around us?”
Gary Hamel’s insightful quote is as important for healthcare organisations as for any other large public or corporate organisation. And where there is high complexity, whether arising from user needs, service enhancement and diversification, or external expectations the uncertainties about change become magnified.
This session will be an opportunity to explore the drivers for change that are most critical in your context and their implications for you as a leader. It will also stimulate discussion and ideas about creating collective commitment around the need for change and building a sense of shared purpose and mutual accountability.
This session will explore:
- What are the drivers for change surrounding the context in which you lead?
- How can you inspire collective commitment around the need for change?
- What do we understand by user-centred change and what are the values associated with this?
- And what is the relationship between culture, strategy and change?

Facilitators:
ALISON JOHNS, United Kingdom
Chief Executive of the Leadership Foundation for Higher Education
DOUG PARKIN, United Kingdom
Programme Director of the Leadership Foundation for Higher Education
The joint Conference is EIP’s flagship event and is aligned with an ongoing mission to improve child health and healthcare globally. However, EIP also pursues this mission in other ways with a number of Child Health Policy Focus Groups taking place in parallel to the main conference in London. These meetings look to identify and overcome barriers to better pediatric and adolescent health policies covering such areas as increasing HPV, Influenza and Meningitis Vaccination uptake and better identify and support children with rare diseases and chronic conditions. Focus Groups taking place in London, include:

<table>
<thead>
<tr>
<th>Date</th>
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<th>Location</th>
<th>Focus Group</th>
<th>Vaccines</th>
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<tr>
<td>FRIDAY 11 DECEMBER</td>
<td>09:00-11:00</td>
<td>Convocation Hall</td>
<td>HEALTH POLICY FOCUS GROUP MEETING</td>
<td>Vaccines</td>
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<td>INFLUENZA VACCINATIONS</td>
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Despite evidence of the burden that annual influenza epidemics place on children and societies in general, few countries currently recommend influenza vaccination of healthy children. In recent years, several clinical studies have provided new information on the benefits of widespread vaccination. The new scientific evidence reinforces the need to increase awareness among the child healthcare community to better enable them to advise and strongly advocate influenza vaccines for infants and adolescents. The joint Conference is EIP’s flagship event and is aligned with an ongoing mission to improve child health and healthcare globally. However, EIP also pursues this mission in other ways with a number of Child Health Policy Focus Groups taking place in parallel to the main conference in London. These meetings look to identify and overcome barriers to better pediatric and adolescent health policies covering such areas as increasing HPV, Influenza and Meningitis Vaccination uptake and better identify and support children with rare diseases and chronic conditions. Focus Groups taking place in London, include:

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<tr>
<td>FRIDAY 11 DECEMBER</td>
<td>11:30-13:00</td>
<td>Harvey Goodwin Hall</td>
<td>HEALTH POLICY FOCUS GROUP MEETING</td>
<td>Active Healthy Families</td>
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<td>ACTIVE HEALTHY FAMILIES</td>
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<td>Open to all Conference Participants</td>
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Play your part in this open-access Focus Group and help develop Active Healthy Families strategies, practices and priorities that should be put in place to make sure the best possible holistic health advice is provided to the families you support. Covering all aspects of family health and well being from diet and physical activity to the impact of the school environment and parental communication, the Focus Group will form recommendations on how best to create healthier family units by using paediatric healthcare professionals as educators on healthy lifestyles and not just by providing treatment for specific problems. The Active Healthy Families Focus Group is taking place on Friday 11th from 11:30-13:00 covering how best to encourage the families you support to lead a healthy lifestyle and EIP would encourage you to attend and actively participate in this session.

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<td>HPV VACCINATIONS</td>
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Part of EIP’s global HPV Vaccination Campaign to increase HPV vaccination rates globally, and following on from the success of the September meeting of the HPV Asia Focus Group in Vietnam, the intention of the meeting is to identify and overcome the current barriers to uptake for a vaccine that can protect against cervical cancer later on in life. Participants and KOLs representing a number of target countries where HPV vaccination rates remain low will discuss strategies to overcome the existing barriers to uptake. Experts from countries that have already achieved high population coverage by applying efficient policies, delivery models and sufficient communication campaigns with parents, will then present their case practices, experiences, strategies and obstacles they addressed.

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<tbody>
<tr>
<td>FRIDAY 11 DECEMBER</td>
<td>17:00-18:30</td>
<td>Convocation Hall</td>
<td>HEALTH POLICY FOCUS GROUP MEETING</td>
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<td>RARE DISEASES AND CHRONIC DISEASES</td>
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The 2015 Rare Diseases and Chronic Conditions Focus Group will develop strategies and recommendations that will encourage policymakers to work together with medical communities to support the early diagnosis of rare diseases. Policy changes will be discussed that will cover the need for improved new born screening, adoption of best-practice guidelines and education on how healthcare professionals can better spot the signs of a rare disease, as well as increasing the level of support offered to those children, and families of children, who have been diagnosed with a rare disease or chronic condition. Front-line pediatric clinicians have unrealised potential for diagnosing suspected Rare Diseases and referring them to the appropriate specialists and the Focus Groups aim is to make sure this potential is best utilized.

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<td>FRIDAY 11 DECEMBER</td>
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<td>HEALTH POLICY FOCUS GROUP MEETING</td>
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The overall goal of the Meningitis Focus Group is to increase awareness and mobilize the medical community to advocate comprehensive meningitis vaccinations strategies. More specifically the ethos of the Focus Group is that with the full set of vaccination tools now available to prevent meningitis (from Men B to Men A, C, and Y) we need to increase protection by advocating the use and uptake of the latest vaccines to protect all children and adolescents against bacterial meningitis at both the targeted national and global level. The Focus Group will look at how to increase vaccination coverage for new-borns through to adolescent to provide comprehensive protection to the most venerable age groups and what steps should be put in place to achieve this.
MEETINGS ON
THE OCCASION OF EIP

Thursday, December 10th, Assembly hall

13:00-13:50 Meeting on the Occasion of EIP - The Latest Progress in Diaper Technologies

Presenters: FRANK WIESEMANN, Principal Scientist, P&G Baby Care R&D, and ANDREW N. CARR, Clinical Scientist, P&G Clinical Research, Global Baby Care

13:00-13:50 The Latest Progress in Diaper Technologies – Co-created by parents, babies and P&G Scientists

• Diaper Dermatitis: Causes and Opportunities - The role of disposable diapers and baby wipes in skin health and hygiene.
• Pampers applies a range of different research techniques, including co-creation with parents and babies to develop diapers designed to keep skin healthy.
• Pampers Diapers: Trusted Safety and Efficacy. Clinical studies show that different technologies in modern diapers work together to protect skin from urine and feces and provide skin care in the diaper area.
• The latest technology just coming to market provides even better performance while at the same time improving wearing comfort and fit.

Lunch served in hall for lecture participants

Friday, December 11th, Assembly hall

13:30-14:30 A Sherlock Holmes approach to detecting treatable Lysosomal Storage Disorders

Presenters: MAUREEN CLEARY, Great Ormond Street Hospital for Children, London, UK and MARCO SPADA, Ospedale Regina Margherita, Torino, Italy

13:30-14:30 A Sherlock Holmes approach to detecting treatable Lysosomal Storage Disorders

• Understand the early warning signs of Gaucher, MPS I, Fabry, and Pompe diseases in children.
• How to differentiate these life-threatening conditions from more common pediatric illnesses.
• When and how to test suspected cases to ensure prompt treatment.

Lunch served in hall for lecture participants
Session
OP1-RD-CC: Oral Presentations on Rare Diseases and Chronic Conditions

Time: Friday, 11/Dec/2015: 10:00am - 11:00am • Location: Council Hall

Moderator

IOANNA N. GRIVEA, Associate Professor of Pediatrics and Neonatology at the University of Thessaly, School of Health Sciences, Faculty of Medicine, Greece.

ID: 265 / OP1-RD-CC: Presentation 1
SCHOOL AND FAMILY AS PREDICTORS OF GOAL ORIENTATION AMONG ADOLESCENTS WITH AND WITHOUT CHRONIC CONDITIONS
Agnieszka Malkowska-Szkutnik, Joanna Mazur
Institute of Mother and Child, Poland

ID: 182 / OP1-RD-CC: Presentation 2
HEALTH-RELATED QUALITY OF LIFE IN ADOLESCENTS WITH CHRONIC CONDITIONS: HIGHLIGHTS FROM THE PORTUGUESE HBSC-2014
Teresa Cristina Santos1,2, Margarida Gaspar Matos3, Tânia Gaspar4, Celeste Simões5, Isabel Leal6, Maria Céu Machado7
1Projeto Aventura Social-Social Adventure Team/FMH, Faculdade de Motricidade Humana Universidade de Lisboa, Portugal; 2ISAMB, Instituto de Saúde Ambiental, Faculdade de Medicina, Universidade de Lisboa, Portugal; 3William James Center for Research, ISPA - Instituto Universitário, Lisboa, Portugal; 4Lisbon Lusiana University, Portugal; 5Departamento de Pediatria do Hospital de Santa Maria, CAML, Centro Académico de Medicina de Lisboa, Portugal

ID: 235 / OP1-RD-CC: Presentation 3
WELLBEING AMONG ADOLESCENTS WITH CHRONIC CONDITIONS. PRELIMINARY RESULTS FROM PROJECT WELLBEING DESPITE
Susan I Michelsen, Anette Andersen, Mette Kristoffersen, Sanne E Joergensen, Pernille Due
University of Southern Denmark, National Institute of Public Health

ID: 221 / OP1-RD-CC: Presentation 4
WELL-BEING AND LIFE SATISFACTION OF STUDENTS WITH CHRONIC CONDITIONS
Emmanuelle Godeau1,2, Mariane Sentenac1, Bibisa Pacoricona Alfarg3, Virginie Ehlinger2
1Rectorat de Toulouse; 2Inserm U1027, France

ID: 278 / OP1-RD-CC: Presentation 5
AN UNUSUAL CASE OF TEENAGE VOMITING
Anierhe Joan Abowweyere1,2, Mahmoud Sakran1,2, Karen Mandel1,2, Heather Hanh Duong1,2
1Department of Pediatrics, Lakeridge Health Oshawa, Ontario, Canada; 2Department of Pediatrics, Queens University, Kingston, Ontario, Canada

ID: 262 / OP1-RD-CC: Presentation 6
LEPTOSPIROSIS WITH SEPTIC SHOCK
Rui Pereira Domingues, Catarina Brandão, Vera Brites, Margarida Santos, Flora Candeias, Maria João Brito
Hospital Dona Estefânia, Portugal
ID: 246 / OP1-RD-CC: Presentation 7
TELL ME YOUR STORY, I WILL TELL YOU YOUR DISEASE
Joana Rita Freitas1,2, Maria do Carmo Pinto1,2, Laura Oliveira1,2, Rui Alves1,4, Maria Conceição Neves1,5, João Farel Neves1,5
1Paediatric Unit, Hospital Dona Estefânia-CHLC, EPE, Lisbon, Portugal; 2Adolescence unit; 3Paediatric gastroenterology unit; 4Paediatric surgical unit; 5Primary Immunodeficiencies Unit

ID: 251 / OP1-RD-CC: Presentation 8
CHRONIC ACETAMINOPHEN TOXICITY: LACK OF CONSENSUS
Ana Lia Mano, António Pedro Campos, Flora Candeias, Maria João Brito
Hospital Dona Estefânia, Lisboa, Portugal

ID: 242 / OP1-RD-CC: Presentation 9
HAEMOPHILIA: A LOT TO LEARN FROM A NEAR MISS EVENT
Grace Bradley1, A Mukherjee1, A M Will2
1Pennine Acute Hospitals NHS Trust, United Kingdom; 2Royal Manchester Children’s Hospital

Session
OP2-TX-CUR-MU-SX: Oral Presentations on Addictive Behavior, Current Health conditions, Medicine Use and Sexual Health
Time: Friday, 11/Dec/2015: 9:00am - 10:00am • Location: Council Hall

Moderator
IOANNA N. GRIVEA, Associate Professor of Pediatrics and Neonatology at the University of Thessaly, School of Health Sciences, Faculty of Medicine, Greece.

ID: 258 / OP2-TX-CUR-MU-SX: Presentation 1
INCREASING TREND OF ILLICIT DRUG USE AMONG ROMANIAN UNIVERSITY STUDENTS FROM 1999 TO 2011
Lucia Maria Lotrean1, Edna Arillo Santillan2, James Thrasher3, Valeria Laza1
1University of Medicine and Pharmacy, Cluj-Napoca, Romania; 2National Institute of Public Health, Cuernavaca, Mexico; 3University of South Carolina, USA

ID: 220 / OP2-TX-CUR-MU-SX: Presentation 2
SELF-REPORTED EXPOSURE TO CIGARETTE PACK WARNINGS IN SCHOOL AGED CHILDREN AND PERCEPTIONS OF SMOKING RELATED HARM
Eimear Keane1, Michal Molcho1, Colette Kelly1, Fenton Howell2, Saoirse Nic Gabhainn1
1Health Promotion Research Centre, National University of Ireland, Galway, Ireland; 2Department of Health, Government of Ireland, Dublin, Ireland

ID: 109 / OP2-TX-CUR-MU-SX: Presentation 3
ALCOHOL INTOXICATIONS IN ADOLESCENTS OVER THE YEARS 2007 TO 2014, A LONGITUDINAL STUDY IN ALL DUTCH HOSPITALS
Nicolaas van der Leij1, Frouktje de Klerk1, Joris van Hoof2
1Reinier de Graaf Gasthuis, Netherlands, The; 2Behavioral Sciences Faculty, University of Twente, The Netherlands

ID: 171 / OP2-TX-CUR-MU-SX: Presentation 4
BINGE DRINKING AS CAUSE OF ACUTE PANCREATITIS IN ADOLESCENCE
Teresa Pena, Sara Soares, Ana Lúcia Cardoso, Catarina Liz, Sandra Mota Pereira, Ana Reis
Centro Hospitalar Tamega e Sousa, Penafiel, Portugal

ID: 257 / OP2-TX-CUR-MU-SX: Presentation 5
ADOLESCENT HEALTH IN TIMES OF ECONOMIC RECESSION: THE PORTUGAL AND SPAIN CASES
Concepción Moreno-Maldonado1, Inés Camacho2, Antonia Jiménez-Iglesias1, Marta Reis2, Diego Gómez4, Carmen Moreno1, Margarida Gaspar de Matos1,3
1University of Seville, Spain; 2Aventura Social Team / FMH/ University of Lisbon; 3ISAMB / University of Lisbon; 4Loyola University Andalusia; 5WJCR / ISPA Higher Institute of Applied Psychology
### Scientific Programme and Daily Schedule

#### ID: 118 / OP2-TX-CUR-MU-SX: Presentation 6

**NEBULIZERS’ EFFECT ON THE DRAINAGE OF PURULENT PLEURAL EFFUSIONS POST ACQUIRED PNEUMONIA IN CHILDREN**

Sylvana Antoine Zoghbi, Hala Camil Feghali Abiad, Georges Abi Fares, Marie Claude Joseph Fadous Khalife  
Holy Spirit University of Kaslik, Lebanon (Lebanese Republic), University hospital Notre Dame Des Secours

#### ID: 275 / OP2-TX-CUR-MU-SX: Presentation 7

**BARRIERS TO SPERM BANKING IN MALE ADOLESCENTS WITH CANCER: A REVIEW OF THE LITERATURE**  
Courtney Lynn Willis  
Royal Hospital for Children, Glasgow United Kingdom

### Session

**OP3-NU-OB-PA: Oral Presentations on Nutrition, Diet, Obesity and Physical Activity**

**Time:** Friday, 11/Dec/2015: 11:30am - 12:30pm  
**Location:** Council Hall

#### Moderator

IOANNA N. GRIVEA, Associate Professor of Pediatrics and Neonatology at the University of Thessaly, School of Health Sciences, Faculty of Medicine, Greece.

<table>
<thead>
<tr>
<th>ID: 175 / OP3-NU-OB-PA: Presentation 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ADOLESCENTS CONSUMING ENERGY DRINKS REGULARLY ARE MORE LIKELY TO REPORT DAILY HEALTH COMPLAINTS THAN THEIR PEERS.</strong></td>
</tr>
<tr>
<td>Jana Holubcikova¹,², Peter Kolarcik¹,²,³, Andrea Madarasova Geckova¹,²,³, Sijmen Reijneveld⁴, Jitse van Dijk¹,²,³,⁴</td>
</tr>
<tr>
<td>¹Graduate School Kosice Institute for Society and Health, Faculty of Medicine, Kosice, P. J. Safarik University, Slovak Republic; ²Department of Health Psychology, Faculty of Medicine, Kosice, P. J. Safarik University, Slovak Republic; ³Olomouc University Society and Health Institute, Palacký University Olomouc, Czech Republic; ⁴Department of Community and Occupational Medicine, University Medical Center, University of Groningen, the Netherlands</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ID: 198 / OP3-NU-OB-PA: Presentation 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHALLENGES OF EXCLUSIVE BREASTFEEDING AMONGST MOTHERS IN ENUGU, SOUTH-EAST NIGERIA</strong></td>
</tr>
<tr>
<td>Adaobi, Ijeoma Bisi-Onyemaechi, Ugo Chikani, Ikechukwu, Frank Ogbonna, Henrietta Okafor</td>
</tr>
<tr>
<td>University of Nigeria Teaching Hospital, Enugu, Nigeria</td>
</tr>
</tbody>
</table>

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<tr>
<th>ID: 287 / OP3-NU-OB-PA: Presentation 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DETERMINANTS OF EXCLUSIVE BREASTFEEDING IN SUB SAHARAN AFRICA: AN ANALYSIS OF POPULATION DATA USING A MULTILEVEL APPROACH</strong></td>
</tr>
<tr>
<td>Siddika Songul Yalcin¹, Anselm S Berde², Suzan Yalcin³</td>
</tr>
<tr>
<td>¹Department of Social Pediatrics Hacettepe University, Ankara, Turkey; ²Institute of Public Health Hacettepe University, Ankara, Turkey; ³Department of Food Hygiene and Technology, Faculty of Veterinary Medicine, Selcuk University, Konya, Turkey</td>
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<table>
<thead>
<tr>
<th>ID: 129 / OP3-NU-OB-PA: Presentation 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OXIDATIVE STRESS AND NITRIC OXIDE ARE INCREASED IN OVERWEIGHT AND OBESE CHILDREN AND CORRELATE WITH CARDIOVASCULAR RISK AND RENAL FUNCTION</strong></td>
</tr>
<tr>
<td>Liana Correia-Costa¹, Teresa Sousa², Manuela Morato², Dina Cosme², Joana Afonso², José Carlos Areias², Franz Schaefer³, António Guerra³, Alberto Caldas Afonso⁴, Ana Azevedo⁴, António Albino-Teixeira⁴</td>
</tr>
<tr>
<td>¹Division of Pediatric Nephrology, Integrated Pediatric Hospital, Centro Hospitalar São João, Porto, Portugal; ²Institute of Public Health, University of Porto, Portugal, Portugal; ³Department of Pharmacology and Therapeutics, Faculty of Medicine of University of Porto, Portugal; ⁴MedInUP - Center for Drug Discovery and Innovative Medicines, University of Porto, Porto, Portugal; ⁵Division of Pediatric Cardiology, Integrated Pediatric Hospital, Centro Hospitalar São João, Porto, Portugal; ⁶Division of Pediatric Nephrology, Center for Pediatrics and Adolescent Medicine, University of Heidelberg, Heidelberg, Germany; ⁷Division of Pediatric Nutrition, Integrated Pediatric Hospital, Centro Hospitalar São João, Porto, Portugal; ⁸EPIUnit - Institute of Public Health, University of Porto, Porto, Portugal; ⁹Department of Clinical Epidemiology, Predictive Medicine and Public Health, Faculty of Medicine of University of Porto, Portugal</td>
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<tr>
<th>ID: 160 / OP3-NU-OB-PA: Presentation 5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LOW AND HIGH BIRTH WEIGHT CHILDREN HAVE INCREASED SCREEN TIME AT SCHOOL-AGE</strong></td>
</tr>
<tr>
<td>Adrianna Rahde Bischoff¹, André Krumel Portella², Roberta Dalle Molle³, Aida Faber³, Narendra Arora³, Robert Levitan⁴, Patricia Pelufo Silveira⁵,⁶, Laurette Dube⁴</td>
</tr>
<tr>
<td>¹Hospital de Clínicas de Porto Alegre, Brazil; ²Universidade Federal de Ciências da Saúde de Porto Alegre, Brazil; ³Universidade Federal do Rio Grande do Sul, Brazil; ⁴Desautels Faculty of Management, McGill Center for the Convergence of Health and Economics, Montreal, Canada; ⁵The INOLEN Trust, India; ⁶Institute of Medical Science, University of Toronto, Canada; ⁷Centre for Addiction and Mental Health (CAMH), Toronto, Canada</td>
</tr>
</tbody>
</table>
HEALTH BENEFITS FROM ADOLESCENTS PARTICIPATION IN ORGANIZED LEISURE-TIME ACTIVITIES
Andrea Madarasova Geckova¹, Petr Badura², Dagmar Sigmundova², Zuzana Dankulincova Veselska¹
¹PJ Safarik University in Kosice, Slovak Republic; ²Institute of Active Lifestyle, Faculty of Physical Culture, Palacky University, Olomouc, Czech Republic

ASSOCIATION OF MYELOPEROXIDASE LEVELS WITH CARDIOMETABOLIC FACTORS AND RENAL FUNCTION IN PREPUBERTAL CHILDREN
Liane Correia-Costa¹, Teresa Sousa², Manuela Morato², Dina Cosme³, Joana Afonso³, Cláudia Moura³, Cláudia Mota³, José Carlos Areias³, António Guerra³, França Schaefer³, Alberto Caldas Afonso³, Henrique Barros³, António Albino-Teixeira³, Ana Azevedo³
¹Division of Pediatric Nephrology, Integrated Pediatric Hospital, Centro Hospitalar São João, Porto, Portugal; EPIUnit - Institute of Public Health, University of Porto, Porto, Portugal; ²Department of Pharmacology and Therapeutics, Faculty of Medicine of University of Porto, Portugal; MedInUP - Center for Drug Discovery and Innovative Medicines, University of Porto, Porto, Portugal; ³Division of Pediatric Cardiology, Integrated Pediatric Hospital, Centro Hospitalar São João, Porto, Portugal; ³Division of Pediatric Nutrition, Integrated Pediatric Hospital, Centro Hospitalar São João, Porto, Portugal; ³Division of Pediatric Nephrology, Center for Pediatrics and Adolescent Medicine, University of Heidelberg, Heidelberg, Germany; ³EPIUnit - Institute of Public Health, University of Porto, Porto, Portugal; Department of Clinical Epidemiology, Predictive Medicine and Public Health, Faculty of Medicine of University of Porto, Portugal

CORRELATIONS BETWEEN THE PREVALENCE OF PHYSICAL FIGHTING AND TV WATCHING HABITS AMONG ARMENIAN ADOLESCENTS
Marina Melkumova, Sergey Sargsyan, Yeva Movsesyan, Ara Babloyan
Arabkir Medical Centre-Institute of Child and Adolescent Health, Armenia

Session
OP4-VA-ID-GP: Oral Presentations on Vaccines, Infectious Diseases and General Pediatrics
Time: Friday, 11/Dec/2015: 12:30pm - 1:30pm • Location: Council Hall
Moderator
IOANNA N. GRIVEA, Associate Professor of Pediatrics and Neonatology at the University of Thessaly, School of Health Sciences, Faculty of Medicine, Greece.

MALARIA IN NEONATES CASES REPORT
Jocelyne Bukeyeneza
University Teaching Hospital of Rwanda, Rwanda

NEISSERIA MENINGITIDIS SEROGROUP C CAUSING PRIMARY ARTHRITIS IN A CHILD – CASE REPORT
Vasile Valeriu Lupu¹, Sergiu Straticiuc², Ancuta Ignat¹, Roxana Crețu¹, Ilieana Ioniciu¹, Marin Burlea¹
¹Pediatrics Department, University of Medicine and Pharmacy “Gr. T. Popa”, Iasi, Romania; ²Pediatric Ortopaedic Department, “St. Mary” Children Emergency Hospital, Iasi, Romania

IMPACT OF HOME-BASED MANAGEMENT ON MALARIA OUTCOME IN UNDER-FIVES PRESENTING IN A TERTIARY HEALTH INSTITUTION IN NIGERIA
Damian Uchechukwu Nwaneri, Ayebo Evawere Sadoh, Micheal Okoeguale Ibadin
University of Benin Teaching Hospital, Benin City Nigeria, Nigeria

OUTPATIENT ANTIBIOTICS USE IN A PORTUGUESE PAEDIATRIC EMERGENCY DEPARTMENT
Ana Lúcia Cardoso, Ana Catarina Carvalho, Catarina Líz, Teresa Pena, Sara Soares, Cláudia Monteiro, Eunice Moreira
Centro Hospitalar do Tâmega e Sousa, Portugal
ID: 127 / OP4-VA-ID-GP: Presentation 5

TOPICAL OILS FOR BABY DRY SKIN OR MASSAGE? NEW EVIDENCE FROM THE OBSERVE STUDY

Alison Cooke1, Michael J Cork2, Suresh Victor3, Malcolm Campbell1, Simon Danby2, John Chittock1, Tina Lavender1

1The University of Manchester, United Kingdom; 2The University of Sheffield, United Kingdom; 3Sidra Medical and Research Center, Doha Qatar

ID: 204 / OP4-VA-ID-GP: Presentation 6

HELICOBACTER PYLORI INFECTION IN A PEDIATRIC GASTROENTEROLOGY REGIONAL CENTER IN NORTHEAST ROMANIA

Ancuta Ignat1, Marin Burlea1, Gabriela Paduraru1, Ileana Ioniuć1, Anamaria Ciubara2, Vasile Valeriu Lupu1

1Pediatrics, University of Medicine and Pharmacy "Gr. T. Popa", Iasi, Romania; 2Psychiatry, University of Medicine and Pharmacy "Gr. T. Popa", Iasi, Romania

ID: 250 / OP4-VA-ID-GP: Presentation 7

EXTRAHEPATIC BILIARY ATRESIA; KOTB DISEASE IS POTENTIALLY PREVENTABLE

Magd Ahmed Kotb

Cairo University, Egypt

ID: 163 / OP4-VA-ID-GP: Presentation 8

BACTERIAL AGENTS CAUSING MENINGITIS AND SEROPREVALENCE OF DIFFERENT SEROGROUPS OF NEISSERIA MENINGITIDIS, HAEMOPHILUS INFLUENZAE TYPE B AND STREPTOCOCCUS PNEUMONIAE DURING 2013-2014 IN TURKEY: A MULTICENTER PROSPECTIVE SURVEILLANCE STUDY

Mehmet Ceyhan1, Nezahat Gürler2, Yasemin Ozsurecici2, Turkish Meningitis Surveillance Team3

1Hacettepe University Faculty of Medicine, Turkey; 2Istanbul University Faculty of Medicine, Turkey; 3Turkish Meningitis Surveillance Team

Session

OP5-SC-VIO-FL: Oral Presentations on School, Violence, Injury and Family Life

Time: Friday, 11/Dec/2015: 2:30pm - 3:30pm • Location: Council Hall

Moderator

ANTONIOS GOUNARIS, Professor of Neonatology at the University of Thessaly, School of Health Sciences, Faculty of Medicine, Greece.

ID: 125 / OP5-SC-VIO-FL: Presentation 1

LOOKING FOR FACTORS THAT WOULD OPTIMIZE LEARNING AMONG ADOLESCENT LEBANESE STUDENTS

Marie Claude Joseph Fadous Khalife1, Youssef Feghali1, Maud Ojaimi2, Georges Abi Fares2, Michel Soufia1

1Holy Spirit University of Kaslik, Lebanon (Lebanese Republic), University hospital Notre Dame Des Secours; 2Balamand University, Koura, Lebanon

ID: 226 / OP5-SC-VIO-FL: Presentation 2

CHANGING FAMILY STRUCTURE, PARENTAL COMMUNICATION AND CHILDREN’S LIFE SATISFACTION IN IRELAND BETWEEN 1998 AND 2010

Aoiife Gavin, Colette Kelly, Saoirse Nic Ghabhainn, Michal Molcho

Health Promotion Research Centre, National University of Ireland, Galway, Ireland

ID: 224 / OP5-SC-VIO-FL: Presentation 3

DOES FAMILY STRUCTURE MATTER? REFLECTIONS FROM POLISH STUDIES ON SOCIAL DETERMINANTS OF ADOLESCENT HEALTH

Joanna Mazur, Izabela Tabak, Agnieszka Malkowska-Szkutnik, Anna Dzielska

Institute of Mother and Child, Poland
### Session

**OP6-GP-MH: Oral Presentations on General Pediatrics and Child Mental Health**

**Time:** Friday, 11/Dec/2015: 3:30pm - 4:30pm  
**Location:** Council Hall

**Moderator**

**ANTONIOS GOUNARIS,** Professor of Neonatology at the University of Thessaly, School of Health Sciences, Faculty of Medicine, Greece.

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<table>
<thead>
<tr>
<th>ID: 259 / OP5-SC-VIO-FL: Presentation 4</th>
<th>CHILDHOOD MALTREATMENT IN FAMILY AND ASSOCIATIONS WITH HEALTH-HARMING BEHAVIOUR AND PSYCHOSOMATIC COMPLAINTS: RESULTS FROM HBSC ROMANIAN STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID: 167 / OP5-SC-VIO-FL: Presentation 5</td>
<td>PARENTAL EMPLOYMENT STATUS AND ADOLESCENTS’ WELL-BEING: FINDINGS FROM THE HEALTH BEHAVIOUR IN SCHOOL-AGED CHILDREN (HBSC) PORTUGUESE SURVEY</td>
</tr>
<tr>
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<td>PREVALENCE AND ASSOCIATED HARM OF ENGAGEMENT IN SELF-ASPHYXIAL BEHAVIOURS (“CHOKING GAME”) IN YOUNG PEOPLE: A SYSTEMATIC REVIEW</td>
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</table>

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**Session**

**OP6-GP-MH: Oral Presentations on General Pediatrics and Child Mental Health**

**Time:** Friday, 11/Dec/2015: 3:30pm - 4:30pm  
**Location:** Council Hall

**Moderator**

**ANTONIOS GOUNARIS,** Professor of Neonatology at the University of Thessaly, School of Health Sciences, Faculty of Medicine, Greece.

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<table>
<thead>
<tr>
<th>ID: 139 / OP6-GP-MH: Presentation 1</th>
<th>CAFFEINE FOR THE TREATMENT OF APNEA IN BRONCHIOLITIS: A RANDOMIZED TRIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID: 166 / OP6-GP-MH: Presentation 2</td>
<td>ADOLESCENT MEDICAL EMERGENCIES: BASELINE SURVEY IN A NIGERIAN TERTIARY HOSPITAL.</td>
</tr>
<tr>
<td>ID: 282 / OP6-GP-MH: Presentation 3</td>
<td>GENDER DIFFERENCE IN THE EVALUATION OF FEBRILE INFANTS AGED ≤ 60 DAYS USING THE HIGH OR LOW RISK CRITERIA</td>
</tr>
<tr>
<td>ID: 207 / OP6-GP-MH: Presentation 4</td>
<td>CLINICOPATHOLOGICAL STUDY OF ENTERIC FEVER: A PROSPECTIVE HOSPITAL BASED 18 MONTH ANALYSIS OF 54 PAEDIATRIC CASES IN A TERTIARY CARE TEACHING HOSPITAL</td>
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**Session**

**OP6-GP-MH: Oral Presentations on General Pediatrics and Child Mental Health**

**Time:** Friday, 11/Dec/2015: 3:30pm - 4:30pm  
**Location:** Council Hall

**Moderator**

**ANTONIOS GOUNARIS,** Professor of Neonatology at the University of Thessaly, School of Health Sciences, Faculty of Medicine, Greece.

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**Session**

**OP6-GP-MH: Oral Presentations on General Pediatrics and Child Mental Health**

**Time:** Friday, 11/Dec/2015: 3:30pm - 4:30pm  
**Location:** Council Hall

**Moderator**

**ANTONIOS GOUNARIS,** Professor of Neonatology at the University of Thessaly, School of Health Sciences, Faculty of Medicine, Greece.

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**OP6-GP-MH: Oral Presentations on General Pediatrics and Child Mental Health**

**Time:** Friday, 11/Dec/2015: 3:30pm - 4:30pm  
**Location:** Council Hall

**Moderator**

**ANTONIOS GOUNARIS,** Professor of Neonatology at the University of Thessaly, School of Health Sciences, Faculty of Medicine, Greece.
ID: 168 / OP6-GP-MH: Presentation 5
FEVER IN INFANTS UNDER 3 MONTHS: IS OUR APPROACH CONSISTENT?
Lucinda C Winckworth¹,², Saji Alexander²
¹St Mary’s Hospital, United Kingdom; ²Chelsea and Westminster Hospital, United Kingdom

ID: 239 / OP6-GP-MH: Presentation 6
DIFFERENTIAL ITEM FUNCTIONING IN TREND ANALYSES OF ADOLESCENT MENTAL HEALTH – ILLUSTRATIVE EXAMPLES USING HBSC-DATA FROM FINLAND
Curt Hagquist¹, Raili Välimaa², Sakari Suominen³, Nina Simonsen⁴
¹Karlstad University, Sweden; ²University of Jyväskylä, Finland; ³University of Turku, Finland, University of Skövde, Sweden; ⁴Folkhälsan Research Center, University of Helsinki, Finland;

ID: 216 / OP6-GP-MH: Presentation 7
CO-MORBIDITY AND RISK FACTORS OF ADHD AMONG SCHOOL AGED CHILDREN IN CAIRO, EGYPT
Maisa Farid¹, Sahar Sabour², Mona Othman²
¹Egyptian Academy of Childhood Disability, Institute of Postgraduate Childhood studies, Ain Shams University, Egypt; ²Faculty of Medicine, Ain Shams University; ³Institute of Postgraduate Studies, Ain Shams University
## Session

**POST1: Poster Viewing 1**

**Time:** Thursday, 10/Dec/2015: 1:00pm - 2:00pm  
**Location:** Assembly Hall Corridor - Poster Area

### Moderator

**IOANNA N. GRIVEA,** Associate Professor of Pediatrics and Neonatology at the University of Thessaly, School of Health Sciences, Faculty of Medicine, Greece.

| ID: 243 / POST1: Presentation 1 | **adolescent antisocial behavior in Spain: relationship with emotion regulation and health.**  
Ana Villafuerte-Díaz, Pilar Ramos, Concepción Moreno-Maldonado, Inmaculada Sánchez-Queija, Antony Morgan, Irene García-Moya  
1University of Seville, Spain; 2Glasgow Caledonian University, Scotland |
|---|---|
| ID: 236 / POST1: Presentation 2 | **Identifying and Characterising Resilience in Spanish Adolescents**  
Carmen Moreno, Irene García-Moya, Francisco Rivera, Inmaculada Sánchez-Queija, Antonia Jiménez-Iglesias, Pilar Ramos  
1University of Seville, Spain; 2University of Huelva, Spain |
| ID: 240 / POST1: Presentation 3 | **Consequences of early adversity on physical development: Menarche in Adolescents Adopted. HBSC-Spain Results**  
Carmen Paniagua, Carmen Moreno, Maite Román, Concepción Moreno-Maldonado, Rivera Francisco, Jesús Palacios  
1University of Seville, Spain; 2University of Huelva, Spain |
| ID: 200 / POST1: Presentation 4 | **Parental Accuracy of Reporting Diagnoses of Developmental Disabilities**  
Kalyani Vijaykumar Mulay, Evelyn Law  
Khoo Teck Puat – National University Children’s Medical Institute, National University Health System, Singapore |
| ID: 140 / POST1: Presentation 5 | **Do Foreign Domestic Workers Decrease Stress in Parents Caring for Children with Developmental Disabilities?**  
Kalyani Vijaykumar Mulay, Ying Qi Kang, Evelyn Law  
Khoo Teck Puat – National University Children’s Medical Institute, National University Health System, Singapore |
| ID: 244 / POST1: Presentation 6 | **Severe Hypercalcaemia Secondary to Use of Complementary and Alternative Medicine**  
Catriona Ann Boyd, Abdul Moodambail  
Newham University Hospital, Barts Health NHS Trust, United Kingdom |
<table>
<thead>
<tr>
<th>ID: 153</th>
<th>POST1: Presentation 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE PARENTS’ AND HEALTH CARE PROVIDERS’ PERCEPTIONS OF PARENTAL NEEDS IN A PEDIATRIC INTENSIVE CARE UNIT</td>
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<td>Neslihan Çiftlik¹, Ejen İskır Esenay²</td>
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<td>¹Mersin Obstetrics Gynecology and Pediatrics Hospital, Mersin, Turkey; ²Ankara University, Faculty of Health Sciences, Pediatric Nursing dept. Ankara, Turkey</td>
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<tr>
<td>ASSOCIATIONS BETWEEN PHYSICAL ACTIVITY AND ADOLESCENTS’ HEALTH AND WELLBEING IN TWO DIFFERENT CULTURAL CONTEXTS: ENGLAND AND RUSSIA</td>
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<tr>
<td>Ellen Klemens¹, Fiona Brooks¹, Oleg Churganov², Elena Gavrilova², Nigel Smeeton¹</td>
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<td>¹Hertfordshire University, United Kingdom; ²Mechnikov State Medical University, Saint Petersburg, Russia</td>
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<td>TOO MUCH SCREEN, SLEEPING DIFFICULTIES, SKIPPING BREAKFAST AND DISLIKE SCHOOL</td>
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<td>Daniela Brindova³, Lukas Blinka³, Andrea Madarosova Geckova³, Jan Sirucek²</td>
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<td>³PJ Safarik University in Kosice, Slovak Republic; ²Masaryk University in Brno, Czech Republic</td>
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<td>PRIMARY HYPERTENSION IN SCHOOL-AGE CHILDREN AND THE ESSENTIAL MICRONUTRIENTS Zn, Cu, Cr</td>
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<td>Nadia Kolarova-Yaneva¹, Maria Angelova³, Snejana Tisheva³, Margarita Tzonzarova⁴</td>
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<tr>
<td>¹Department of Pediatrics – Medical University – Pleven; ²Department of Chemistry and Biochemistry &amp; Biophysics and Physics, Sector Chemistry - Medical University – Pleven; ³Department of Pulmonology, Cardiology and Endocrinology - Medical University – Pleven; ⁴National Cardiology Hospital – Sofia</td>
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<td>ANALYSIS OF THE INCIDENCE OF ACUTE MYOCARDITIS IN INFANTS AND ADOLESCENTS</td>
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<td>Vania Nedkova, Nadia Kolarova-Yaneva, Vasili Mihailov</td>
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<td>Medical University Pleven, Paediatric clinic, Bulgaria</td>
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<td>EFFECT AND SIDE EFFECT OF STIMULANTS ON CHILDREN AND ADOLESCENT WITH ADHD</td>
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<td>Madeeha Kamal¹, Shabeena Khan¹, Schahla Al-Shibli, Samar Osman, Mohamad AlKuwari¹, Lori Bradshaw²</td>
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<tr>
<td>¹Hamad Medical corporation, Qatar; ²University of Arizona</td>
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<td>RELATIONSHIPS BETWEEN LIKING SCHOOL, SOCIAL LIFE AND FAMILY AFFLUENCE IN TURKISH STUDENTS: FINDINGS FROM THE HBSC STUDY</td>
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<td>Oya Erçan¹, Ethem Erginoz¹, Muğan Alikasifoğlu¹, Omer Uysal¹, Eray Yurtseven¹, Deniz Albayrak Kaymak¹, Bernadette Fiscina²</td>
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<td>¹Istanbul University, Cerrahpasa Medical Faculty, Turkey; ²NYU School of Medicine, USA</td>
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<td>FEEDING PATTERNS DURING INFANCY IN TODDLERS WITH NORMAL WEIGHT AND OVERWEIGHT TODDLERS</td>
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<td>Ida Nad, Lea Oletić, Duška Tješić-Drinković, Matija Bakoš</td>
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<td>MITCHELL-RILEY SYNDROME: A RARE CAUSE OF NEONATAL DIABETES</td>
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<td>Inês Salva, Marta Amorim, Sara Carmo, Lurdes Lopes, Ana Pita, Luís Pereira-da-Silva</td>
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<td>Ali Naseh¹, Sormeh Nourbakhsh¹, Ali Hafizi¹, Sahar Ashrafižadeh¹, Sepehr Rassi²</td>
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<td>¹Shahid-Beheshti Medical University, Iran, Islamic Republic of; ²Global Health and Health Policy Program, Harvard University, Cambridge, MA; ³Dalhousie University, Nova Scotia, Halifax, Canada</td>
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<td>Maia Surviladze</td>
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<th>PSYCHO-EMOTIONAL CHARACTERISTICS OF THE ADOLESCENTS WITH ALLERGIC RHINITIS</th>
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<th>MULTILEVEL ASSOCIATIONS BETWEEN ACCESSIBILITY OF SPORT FACILITIES AT SCHOOL, ACTIVE RECESS AND URBANICITY WITH SEDENTARY BEHAVIOUR AMONG SLOVAK ADOLESCENTS</th>
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<td>Jaroslava Kopcakova¹,², Zuzana Dankulinova Veselska², Daniel Klein¹, Andrea Madarasova Geckova¹,²,³</td>
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<tr>
<td></td>
<td></td>
<td>¹Department of Health Psychology, Faculty of Medicine, P.J. Safarik University in Kosice, Tr. SNP 1, 040 01 Košice, Slovak Republic; ²Graduate School Kosice Institute for Society &amp; Health, P.J. Safarik University in Kosice, Tr. SNP 1, 040 01 Košice, Slovak Republic; ³Center for Kinanthropology Research, Institute of Active Lifestyle, Faculty of Physical Culture, Palacky University in Olomouc, Tr. Míru 115, 771 11 Olomouc, Czech Republic; ⁴Institute of Mathematics, Faculty of Natural Sciences, P.J. Safarik University in Kosice, Jesenná 5, 040 01 Košice, Slovak Republic; ⁵Olomouc University Social Health Institute, Palacky University in Olomouc, Univerzitní 22, 771 11 Olomouc, Czech Republic</td>
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<th>UNHEALTHY HABITS OF URBAN ADOLESCENTS: AN EXPERIENCE FROM CROATIA</th>
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<td>Katija Kragić¹, Dubravka Matanić³, Irena Bralić³</td>
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<td>¹Doctor’s office, Okrug Gornji; ³City of Zagreb; ³University of Split School of Medicine, Croatia</td>
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<th>DOES SHORT SLEEP DURATION INCREASE THE RISK OF OBESITY IN CHILDREN? AN EVIDENCE-BASED CASE REPORT</th>
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<td>Nadia Titia Indriasti¹, Nitish Basant Adnani¹, Nora Sutarina²</td>
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<td>¹Faculty of Medicine, University of Indonesia, Jakarta, Indonesia; ²Kemayoran District Public Health Centre, Jakarta, Indonesia; ³Department of Community Medicine, Faculty of Medicine, University of Indonesia</td>
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<th>CLINICAL SIGNIFICANCE OF PSYCHO-EMOTIONAL DISORDERS AND THEIR CORRECTION WITH THE CHILD OBESITY</th>
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<th>THE DIAGNOSTIC VALUE OF CONDUCTING VOIDING CYSTOURETHROGRAM IN ALL INFANTS YOUNGER THAN TWO MONTHS AFTER THEIR FIRST URINARY TRACT INFECTION</th>
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<td>Samar Osman, Shabina Khan, Adiba Hamad, Mohamed Hendaus, Lukman Imam, Fayhaa Ahmed Abdelgadir, Amal Haider, Eshraga Taha</td>
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<td>THE INCIDENCE OF HYDATID CYSTS OF DIFFERENT LOCATIONS IN CHILDREN IN KAZAKHSTAN</td>
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<td>Minira Bulegenova, Anna Makhneva, Aigul Bekisheva</td>
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<td>Scientific Center of Pediatrics and Children’s surgery, Kazakhstan</td>
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<td>CHARACTERISTICS OF SYSTEMIC IMMUNITY IN CHILDREN WITH JUVENILE RHEUMATOID ARTHRITIS</td>
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<td>IMPROVING DIAGNOSTIC ABILITY WITH ARRAYCGH IN A DEVELOPMENT OUTPATIENT CLINIC</td>
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<td>Inês Maio1, Joana Correia1, Diana Gonzaga1, Natalia Tkachenko2, Catarina Prior1</td>
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<tr>
<td>1Centro Hospitalar do Porto, Portugal, Department of Pediatrics; 2Centro Hospitalar do Porto, Portugal, Department of Genetics</td>
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<td>INCREASING T2DM IN CHILDHOOD DIABETES: EXPERIENCE IN A TERTIARY MEDICAL CENTER IN SOUTHERN THAILAND</td>
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<td>Somchit Jaruratanasirikul</td>
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<td>PITFALLS IN INTERPRETATION OF CT-VALUES OF RT-PCR IN CHILDREN WITH ACUTE RESPIRATORY TRACT INFECTIONS</td>
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<td>Jerome O. Wishaupt1, Tjeerd Van der Ploeg2, Leo C. Smeets2, Ronald De Groot3, Florens G.A. Versteegh3,4, Nico G. Hartwig3,4</td>
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<tr>
<td>1Reinier de Graaf Hospital, Delft, The Netherlands; 2Medisch Centrum Alkmaar, Alkmaar, The Netherlands; 3Reinier Haga Medisch Diagnostisch Centrum, Delft, The Netherlands; 4Radboud University Medical Centre, Nijmegen, The Netherlands; 5Groene Hart Ziekenhuis, Gouda, The Netherlands; 6Ghent University Hospital, Ghent, Belgium; 7Sint Franciscus Gasthuis, Rotterdam, The Netherlands; 8ErasmusMC–Sophia, Rotterdam, The Netherlands</td>
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<td>DILATED CARDIOMYOPATHY: CLINICAL FEATURES, EVOLUTION AND PROGNOSTIC DATA IN CHILDHOOD (33 CASES REPORT)</td>
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<tr>
<td>Houda Ajmi1, Nesrine Ibn Hassine1, Minyar Tfifha1, Sameh Mabrouk2, Saida Hassayoun1, Jalel Chemli1, Essia Boughzela1, Noura Zouari1, Saoussen Abroug1</td>
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<tr>
<td>1Pediatric department, Sahloul hospital, Sousse, Tunisia; 2Cardiology department, Sahloul hospital, Sousse, Tunisia</td>
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<td>MYELODYSPLASTIC SYNDROMES IN CHILDREN</td>
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<td>Bechir Achour1, Haifa Regaieg1, Nesrine Ben Said1, Houda Ajmi1, Yosra Ben Youssef1, Abderrahmen Khilif1</td>
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<tr>
<td>1Hematology department, Farhat Hached University hospital, Sousse, Tunisia; 2Pediatric department, University Sahloul hospital, Sousse, Tunisia</td>
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<td>APPARENT LIFE-THREATENING EVENTS IN INFANTS: REPORT OF 107 CASES</td>
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<td>Oussama Mghirbi, Houda Ajmi1, Saida Hassayoun, Sameh Mabrouk, Minyar Tfifha, Jalel Chemli, Noura Zouari, Saoussen Abroug</td>
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<td>CHRONIC STRIDOR IN INFANTS: REPORT OF 14 CASES</td>
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<td>Houda Ajmi1, Dhouha Zouari1, Saida Hassayoun1, Sameh Mabrouk1, Minyar Tfifha1, Wassim Karmani2, Jalel Chemli1, Mohamed Abdelkafi1, Noura Zouari1, Saoussen Abroug1</td>
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<td>1Pediatric department, University Sahloul hospital, Sousse, Tunisia; 2ENT department, University Farhat Hached hospital, Sousse, Tunisia</td>
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<td><strong>EPIEMIOLOGY OF FULMINANT LIVER FAILURE IN MUSHROOMS POISONING IN CHILDREN IN NORD-WESTERN ROMANIA (2001-2015)</strong></td>
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<tr>
<td>Alina Grama¹, Aurel Bizo², Cornel Aldea³, Dan Delean³, Tudor Lucian Pop³</td>
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<tr>
<td>¹University of Medicine and Pharmacy Carol Davila Bucharest, Romania; ²Nephrology Clinic, Emergency Hospital for Children Cluj-Napoca, Romania; ³nd Pediatric Clinic, University of Medicine and Pharmacy Iuliu Hatieganu Cluj-Napoca, Romania</td>
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<td><strong>EVALUATION OF PATIENTS WITH FEBRILE SEIZURES ADMITTED TO THE DEPARTMENT OF PEDIATRIC EMERGENCY</strong></td>
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<tr>
<td>Nesrin Ozkan¹, Burcu Karakayali¹, Ahmet Sami Yazar¹, Ayfer Arduç¹, Sirin Guven¹, Emin Pala¹, Ruhan Ozer¹, Ismail Islek¹</td>
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<tr>
<td>¹Umranıye Training and Research Hospital, Department of Pediatrics, Istanbul, Turkey</td>
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<td><strong>NEW SLICC CLASSIFICATION CRITERIA DON’T EXCLUDE SISTEMIC JIA ASSOCIATED WITH MAS: A CASE REPORT</strong></td>
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<td>Ayse Yasar, Burcu Karakayali, Ahmet Sami Yazar, Deniz Çakır, Şirin Güven, Ismail Islek</td>
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<td><strong>EVALUATION OF CHILDREN WITH FAMILIAL MEDITERRANEAN FEVER IN UMRANIYE REGION OF ISTANBUL</strong></td>
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<td>Nuran Basoglu, Ahmet Sami Yazar, Selime Aydogdu, Burcu Karakayali, Sirin Guven, Ismail Islek</td>
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<tr>
<td>Department of Pediatrics, Umranıye Training and Research Hospital, Istanbul, Turkey</td>
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<td><strong>A CASE REPORT: JUVENILE POLYPYSIS COLI WITH INTUSSUSCEPTION</strong></td>
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<td>Ceyhan Sahin¹, Ruhan Ozer², Mehmet Arpacık³, Burcu Karakayali³, Cengiz Gül³, Ismail Islek²</td>
<td></td>
</tr>
<tr>
<td>¹Department of Pediatric Surgery, Umranıye Training and Research Hospital, Istanbul, Turkey</td>
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<td><strong>FIRST SEIZURE IN PEDIATRIC EMERGENCY ROOM</strong></td>
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<td>Ana Raquel Moreira, Catarina Maia, Cecilia Martins</td>
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<td>Division of Pediatric, Centro Hospitalar do Médio Ave - Unit of Vila Nova de Famalicão, Portugal</td>
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<td><strong>PRE-PREGNANCY OBESITY AND LONG TERM OUTCOMES IN CHILDREN HEALTH</strong></td>
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<td>Eleni Papachatzí¹,², Spyros Paparodopulos¹, Vasilis Paparodopoulou², Gabriel Dimitriou², Apostolos Vantarakis¹</td>
<td></td>
</tr>
<tr>
<td>¹Department of Public Health, Medical School, University of Patras, Greece; ²Department of Obstetrics and Gynecology, Medical School, University of Patras, Greece</td>
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<td><strong>COMPARATIVE EVALUATION OF PHYSICAL AND SEXUAL DEVELOPMENT OF ADOLESCENTS IN ARAL SEA</strong></td>
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<td>Pakhtikanym Ishuova, Boranbaeva Riza, Lim Ludmilla</td>
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<td><strong>HEALTH FEATURES IN ARAL REGION’S CHILDREN</strong></td>
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<td>PROGRESSIVE GIANT UMBILICAL HERNIA REVEALING AN MPS 1</td>
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<td>Hakim Rahmoune, Nada Boutrid, Belgacem Bioud</td>
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<td>SHORT STAUERE: PECULIAR FINDINGS OF A REGIONAL STUDY IN ALGERIA</td>
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<td>Nada Boutrid, Hakim Rahmoune, Mounira Amrane, Belgacem Bioud</td>
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<td>NEONATAL INFECTIOUS HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS</td>
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<td>EPIDEMIOLOGY OF ACUTE IMMUNE THROMBOCYTOPENIC PURPURA IN CHILDRENS: A RETROSPECTIVE STUDY FROM QATAR</td>
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<tr>
<td>Shabin Khan1, Najla Ba Sharahil1, Rasha Qaqish1, Yasmine Sobeih1, Yaslam Balfaqih1, Budoor Alishmary1, Ahmed Alhammadi2,3</td>
</tr>
<tr>
<td>1Hamad Medical Corporation, Qatar; 2Weill Cornell Medical College –Qatar</td>
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<td>EVALUATING QUALITY AND IMPACT OF ACUTE PAEDIATRIC INPATIENT CARE FOR CHILDREN AND YOUNG PEOPLE ADMITTED WITH SELF-HARM INJURIES OR EATING DISORDERS: A RAPID REVIEW OF THE LITERATURE</td>
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<td>Joseph C. Manning1,2, Izsara Blake1, Dorothy Bean1, Joanne Cooper1, Maria Michail2, Elizabeth Hendron1, Jane Coad1,3</td>
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<td>1Nottingham University Hospitals NHS Trust, United Kingdom; 2School of Health Sciences, The University of Nottingham; 3Children and Families Research, Coventry University</td>
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<tr>
<td>EVALUATING THE QUALITY AND IMPACT OF ACUTE INPATIENT CARE OF CHILDREN AND YOUNG PEOPLE ADMITTED WITH SELF-HARM INJURIES OR EATING DISORDERS: A MULTIPLE STAKEHOLDER ENGAGEMENT PROJECT</td>
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<td>Joseph Charles Manning1,2, Verity Bingham1, Joanne Cooper1, Dorothy Bean1, Izsara Blake1, Damian Wood1, Andrew Turner2, Lucy Rychwalskabrown1, Karine Latter1, Jane Coad1,3</td>
</tr>
<tr>
<td>1Nottingham University Hospitals NHS Trust, United Kingdom; 2School of Health Sciences, The University of Nottingham; 3Children and Families Research, Coventry University</td>
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### Session

**POST2: Poster Viewing 2**

**Time:** Friday, 11/Dec/2015: 1:30pm - 2:30pm  
**Location:** Assembly Hall Corridor - Poster Area

**Moderator**

**IOANNA N. GRIVEA,** Associate Professor of Pediatrics and Neonatology at the University of Thessaly, School of Health Sciences, Faculty of Medicine, Greece.

<table>
<thead>
<tr>
<th>ID: 169 / POST2: Presentation 1</th>
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<tbody>
<tr>
<td><strong>FROM LUMBAR TUMEFACtion TO TUBERCULOSUS SPONDYLODISCITIS – A CASE REPORT OF POTT’S DISEASE</strong></td>
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<tr>
<td>Sara Soares¹, Ana Lucia Cardoso¹, Catarina Liz¹, Teresa Pena¹, Angela Machado¹, Lucilia Vieira¹, Sonia Lira¹, Sandra Teixeira¹, Carlos Sousa², Leonilde Machado³</td>
</tr>
<tr>
<td>¹Department of Pediatrics and Neonatology, Centro Hospitalar Tâmega e Sousa, Penafiel, Portugal; ²Department of Orthopaedics and Traumatology, Centro Hospitalar Tâmega e Sousa, Penafiel, Portugal</td>
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<tr>
<td><strong>MORTALITY OF CHILDREN FROM CONGENITAL MALFORMATIONS IN THE KYZYLORDA REGION</strong></td>
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<td>Pakhitkanym Ishuova, Boranbaeva Riza, Mytybasova Raikan, Sharipova Maira, Sarsenbayeva Gulzhan</td>
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<tr>
<td><strong>A CLINICAL CASE OF WALDMAN SEVERE FORM SYNDROME IN CHILD OF THE FIRST YEAR OF LIFE</strong></td>
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<td>Minira Bulegenova, Oleg Mustafin, Anna Makhneva, Aigul Bekisheva</td>
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<td><strong>CLINICAL CASE: THE DEVELOPMENT OF SECONDARY HAEMOPHAGOCYTIC SYNDROME IN A CHILD WITH COMBINED DISEASE OF THE CONNECTIVE TISSUE</strong></td>
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<td>Minira Bulegenova, Aida Akhenbekova, Riza Boranbaeva</td>
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<td><strong>WAYS TO OVERCOME BARRIERS TO PREVENTIVE VACCINATION OF CERVICAL CANCER IN THE OUTPATIENT PHASE</strong></td>
</tr>
<tr>
<td>Michail Yakovlevich Kanauzov¹, Nataliya Michailovna Obolskaya¹, Katerina Vyacheslavovna Novosad², Vladislav Valerevich Belimenko²</td>
</tr>
<tr>
<td>¹Medical Treatment and Rehabilitation Institution of the Ministry of Economic Development and Trade, Russian Federation; ²Pediatric Infectious Diseases Department at Pirogov Russian National Research Medical University, Moscow, 1 Ostrovityaninova Street</td>
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<td><strong>DIAGNOSTIC DIFFICULTIES IN A CASE OF AUTOIMMUNE DISEASES ASSOCIATION</strong></td>
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<tr>
<td>Genel Sur¹-², Emanuela Flota¹, Lucia F Burac³, Maria Lucia Sur¹</td>
</tr>
<tr>
<td>¹University of Medicine and Pharmacy, Iuliu Hatieganu, Cluj-Napoca, Romania; ²Emergency Clinical Hospital for Children, Cluj-Napoca</td>
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<td><strong>DUBOWITZ SYNDROME – CASE REPORT OF A RARE CONGENITAL DISORDER</strong></td>
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<td><strong>HEPATITIS IN RUBEOLA INFECTIONS IN A CHILD</strong></td>
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<td>Lokesh Tiwari, Gaurav Vishal, Chhitiz Anand, Manish Kumar, Arun Kumar Baranwal</td>
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| ID: 123 | POST2: Presentation 10 |
|**NEPHROTIC SYNDROME: PARANEOPLASTIC SYNDROME IN HODGKIN LYMPHOMA** |
| Ioana Tieraru, Doinita Sfrijan, Loredana Popa, Iulia Bogzeanu, Mihaela Balgradean | "Marie Curie" Emergency Childrens Hospital, Romania |

| ID: 161 | POST2: Presentation 11 |
|**SIMULATION-BASED PEDIATRIC RESUSCITATION IN UNDERGRADUATE MEDICAL EDUCATION** |
| Uthen Pandee | Faculty of Medicine Ramathibodi Hospital, Mahidol University, Thailand |

| ID: 269 | POST2: Presentation 12 |
|**B HEPATITIS: WHEN THE INFECTION OCCURS DESPITE VACCINATION** |
| Ana Gomes da Silva, Inês Marques, Carolina Preihaz | Centro Hospitalar barreiro montijo, Portugal |

| ID: 286 | POST2: Presentation 13 |
|**HODGKIN LYMPHOMA IN CHILDREN: STUDY OF 7 CASES** |
| Haifa Regaieg¹, Bechir Ajmi¹, Nesrine Ben Said¹, Houda Aymi¹, Yosra Ben Youssef¹, Abderrahmen Khif¹ | ¹Department of Clinical Hematology Farhat Hached University Hospital, Sousse, Tunisia; ²Pediatric department, University Sahloul hospital, Sousse, Tunisia |

| ID: 256 | POST2: Presentation 14 |
|**NEONATAL ACUTE MYELOID LEUKEMIA: THREE CASES REPORTS** |
| Haifa Regaieg¹, Bechir Achour¹, Houda Ajmi¹, Nesrine Ben Said¹, Saoussen Abroug², Yosra Ben Youssef¹, Abderrahmen Khif¹ | ¹Hematology department, University Farhat Hached hospital, Sousse, Tunisia; ²Pediatric department, University Sahloul hospital, Sousse, Tunisia |

| ID: 285 | POST2: Presentation 15 |
|**ACUTE MYELOID LEUKEMIAS IN CHILDREN: A RETROSPECTIVE STUDY OF 36 CASES** |
| Haifa Regaieg¹, Bechir Achour¹, Houda Ajmi¹, Nesrine Ben Said¹, Yosra Ben Youssef¹, Abderrahmen Khif¹ | ¹Department of Clinical Hematology Farhat Hached University Hospital, Sousse, Tunisia; ²Pediatric department, University Sahloul hospital, Sousse, Tunisia |

| ID: 219 | POST2: Presentation 16 |
|**EARLY REVELATION OF CONGENITAL HYPOFIBRINOGENEMIA IN A TWO MONTH-OLD BABY BY CEREBRAL BLEEDING** |
| Salsabil Nouir¹, Houda Ajmi¹, Minyar Tfifha¹, Sameh Mabrouk¹, Hajer Guediri¹, Saïda Hassayoun¹, Jalel Chemli¹, Hadef Skouri¹, Noura Zouari¹, Saoussen Abroug² | ¹Pediatric department, University Sahloul hospital, Sousse, Tunisia; ²Hematology department, University Sahloul hospital, Sousse, Tunisia |

| ID: 102 | POST2: Presentation 17 |
|**THE EPIDEMIOLOGIC CONSIDERATIONS ABOUT VISCERAL LEISHMANIASIS IN ALBANIA** |
| Raida Petrela¹, Eli Kalfa³, Hamide Hoxha³, Ferit Zavalani³, Bashkim Neza² | ¹Faculty of medicine, University Hospital Center Mother Theresa, Albania; ²University Hospital Center Mother Theresa, Albania |

<p>| ID: 103 | POST2: Presentation 18 |
|<strong>A CASE REPORT OF LONGSTANDING TOXOPLASMOsis CHOrioretinitis</strong> |
| Raida Petrela¹, Eli Kalfa³, Emajrola Brahimli³ | ¹Faculty of medicine, University Hospital Center Mother Theresa, Albania; ²University Hospital Center Mother Theresa, Albania |</p>
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<th>POST2: Presentation 19</th>
<th>AUTISM FROM IMPAIRED CONNECTIVITY TO IMPAIRED COMMUNICATION AN UPWARD/DOWNWARD CAUSALITY MODEL IN ASDS</th>
<th>Amalia Megremi1,2</th>
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<td>1University of Aegean, Product and Systems Design Engineering, Greece; 2University Hospital “Attikon”, Ilion Socio-Medical Center, Greece</td>
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<th>MYCOBACTERIUM GORDONAE IN AN IMMUNOCOMPETENT PATIENT: A CASE REPORT</th>
<th>Catarina Liz, Ana Catarina Carvalho, Ana Lúcia Cardoso, Teresa Pena, Sara Soares, Joaquim Cunha, Susana Lira</th>
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<th>NEUROBORRELIOSIS AND GUILLAIN-BARRÉ SYNDROME: COULD BE THE SAME DISEASE?</th>
<th>Ana Margarida Garcia, José Pedro Vieira, Maria João Brito</th>
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<th>IS IT SAFE TO ABANDON 6-HOUR CRP TEST FOR NEONATES AT RISK OF GROUP B STREPTOCOCCUS?</th>
<th>Kiera Gee, Luke Williamson, Simon Hauser</th>
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<th>CLINICAL CHARACTERISTICS OF HOSPITAL-ACQUIRED ROTAVIRUS INFECTION IN NEWBORN INFANTS AND GENOTYPE ANALYSIS</th>
<th>Chun Soo Kim, Ga Hyun Lee, Jae Hyun Park, Dong Seok Kim, Sang Lak Lee</th>
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<th>PERICARDIAL EFFUSION ASSOCIATED WITH PERIPHERALLY INSERTED CENTRAL VENOUS CATHETER IN A PRETERM INFANT</th>
<th>Chun Soo Kim, Yun Jung Kim, Jae Hyun Park, Hee Jung Choi, Sang Lak Lee</th>
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<th>EFFECTIVENESS OF MLPA METHOD IN GENETIC DIAGNOSIS OF SEGAWA DISEASE</th>
<th>Haruo Shintaku, Hiroki Fujioka, Satoshi Kudo, Tomoko Sakaguchi, Takashi Hamazaki</th>
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<td>&quot;Grigore ALexandrescu&quot; Emergency Children Hospital Hospital, Romania</td>
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<th>COMMUNITY-ACQUIRED PANTOEA SPP BACTERIEMIA IN A CHILD</th>
<th>Teresa Pena, Ana Lúcia Cardoso, Sara Soares, Catarina Liz, Gisela Silva, Ana Reis, Joaquim Cunha, Sandra Teixeira</th>
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<th>LIVER DISEASE IN ALPHA-1-ANTITRYPSIN DEFICIENCY IN INFANTS</th>
<th>Tudor Lucian Pop1, Alina Graça1, Ana Stefanescu1, Adrian Trifa2, Mariela Militaru2</th>
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<td>1nd Pediatric Clinic, University of Medicine and Pharmacy Iuliu Hatieganu Cluj-Napoca, Romania; 2Genetic Center, Cluj-Napoca, Romania</td>
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<td>272</td>
<td>29</td>
<td>REHABILITATION OF A CHILD WITH DANDY-WALKER VARIANT: A CASE STUDY</td>
<td>Andrea Polovina¹, Svetislav Polovina¹, Romana Gjerga Juraskiči, Tomislav Đapić², Jelena Oreški³, Tamara Crnković⁴</td>
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<tr>
<td>212</td>
<td>30</td>
<td>HEPATITIS FOLLOWED BY MEDULLARY HYPOPLASIA – WAS LEPTOSPIRA THE CULPRIT?</td>
<td>Rute Baeta Baptista¹, Raquel Costa¹, Raquel Maia¹, António Pedro Campos¹, Flora Candeias¹, Maria João Brito¹</td>
</tr>
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<td>211</td>
<td>31</td>
<td>NEONATAL SEIZURES - EXPERIENCE OF A NEONATOLOGY UNIT IN A SECONDARY HOSPITAL</td>
<td>Ana Raquel Moreira, Catarina Maia, Cecília Martins</td>
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<tr>
<td>227</td>
<td>32</td>
<td>NEWBORN WITH MULTIPLE BONE FRACTURES</td>
<td>Ana Luisa Costa¹, Ana Raquel Moreira², Paulo Soares², Ana Vilan², Nuno Alegrete³, Cecília Martins³, Susana Gama Sousa³, Manuela Rodrigues⁵, Hercília Guimarães⁵</td>
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<td>126</td>
<td>33</td>
<td>PROSPECTIVE STUDY ON SLEEP HABITS IN CHILD AND ADOLESCENT</td>
<td>Vera Ramos Rocha¹, Jacinta Fonseca¹, Claudia Monteiro¹, Conceição Silva¹, Isabel Ribeiro¹</td>
</tr>
<tr>
<td>143</td>
<td>34</td>
<td>THE VALUE OF MULTIPLE TESTING MODALITIES IN DETERMINING SEVERITY OF RESPIRATORY INFECTIONS IN YOUNG CHILDREN</td>
<td>Maria Karsas¹, Piet J. Becker², Robin J. Green¹</td>
</tr>
<tr>
<td>290</td>
<td>35</td>
<td>CARDIOVASCULAR DISEASE RISK FACTORS IN HIV INFECTED CHILDREN</td>
<td>Olukebi Omowumi Ige, Christopher Sabo Yilgwan, Ruth Adah, Stephen Oguche, Fidelia Bode-Thomas</td>
</tr>
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<td>197</td>
<td>36</td>
<td>RISK ASSESSMENT OF CHILDREN WITH EATING DISORDERS: A RETROSPECTIVE ANALYSIS OF INPATIENT ADMISSIONS</td>
<td>Craig Swinburne</td>
</tr>
<tr>
<td>252</td>
<td>37</td>
<td>SUBSTANCE EXPERIMENTATION DIFFERENCES AMONG INTELLECTUALLY DISABLED STUDENTS AND MAINSTREAM STUDENTS</td>
<td>Dibia Liz Pacoricona Alfaro², Virginie Ehlinger², Stanislas Spilka³, Mariane Sentencac², Emmanuelle Godeau¹</td>
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**ID: 296 / POST2: Presentation 38**

**CHILDHOOD ECMO SURVIVORS: PARENTS HIGHLIGHT NEED FOR STRUCTURED FOLLOW-UP AND SUPPORT AFTER HOSPITAL DISCHARGE**

Aparna Hoskote¹, Neil Shah², Shawmian Singagireson³, Natalie Ramjeeawon³, Suzan Kakat¹, Aarti Patel¹, Maura O’Callaghan¹, Timothy Thiruchelvam¹, Jo Wray¹

¹Great Ormond Street Hospital; ²Imperial College London; ³The University of Sheffield

**ID: 280 / POST2: Presentation 39**

**THE BEHAVIORAL PATTERNS, SELF-REPORTED HEALTH AND LIFE-SATISFACTION IN ARMENIAN ADOLESCENTS WITH CHRONIC CONDITIONS: DATA OF HEALTH BEHAVIOUR IN SCHOOL-AGED CHILDREN (HBSC) 2013/2014 SURVEY**

Yeva Movsesyan, Sergey Sargsyan, Marina Melkumova, Ara Babloyan

Arabkir Medical Centre-Institute of Child and Adolescent Health, Armenia

**ID: 248 / POST2: Presentation 40**

**GENERALISED LYMPHADENOPATHY AS A PRESENTING FEATURE IN PEDIATRIC SYSTEMIC LUPUS ERYTHEMATOSUS**

Munazza Hayat, Rashid Mahmood, Naveed Akbar Hotiana

Sir Ganga Ram hospital Lahore, Pakistan

**ID: 196 / POST2: Presentation 41**

**TREATMENT OF WEST SYNDROME IN CHILDREN WITH DOWN SYNDROME: A CASE REPORT**

Zara Bowling, Maybelle Wallis

Sandwell and West Birmingham Hospitals NHS trust, United Kingdom

**ID: 184 / POST2: Presentation 42**

**USE OF COMPLEMENTARY/ALTERNATIVE MEDICINE IN CHILDREN WITH CANCER**

Gülhan Yeter¹, Figen İskı Esenay²

¹Mersin University Hospital, Pediatric Hematology Oncology Unit, Mersin, Turkey; ²Ankara University, Faculty of Health Sciences, Pediatric Nursing Dept, Ankara, Turkey

**ID: 165 / POST2: Presentation 43**

**AN UNUSUAL PRESENTATION OF FAMILIAL MEDITERRANEAN FEVER: A CASE REPORT**

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**ID: 138 / POST2: Presentation 44**

**A CASE REPORT OF DRUG REACTION WITH EOSINOPHILIA AND SYMPTOMATIC SYNDROMES (DRESS) SYNDROME ASSOCIATED WITH CEFOTAXIME AND CLINDAMYCIN USE IN A 6 YEAR OLD BOY**

Burcu Karakayali, Ahmet Sami Yazar, Deniz Çakır, Ayse Ceteem, Mandana Kariminkoo, Burak Delilloğu, Sirin Guven, İsmail İskı

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**ID: 188 / POST2: Presentation 45**

**CASE OF MUNCHHAUSEN BY PROXY SYNDROME IN RECURRENT ENCEPHALOPATHY ATTACKS**

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**ID: 147 / POST2: Presentation 46**

**A CASE REPORT OF HYPOFIBRINOGENEMIA AND INTRAARTICULAR HEMORRHAGE INDUCED BY VALPROIC ACID**

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ID: 174 / POST2: Presentation 47

CHAOTIC AORTA!
Nada Boutrid, Hakim Rahmoune, Belgacem Bioud
University of Setif-1, University Hospital of Setif, Algeria

ID: 177 / POST2: Presentation 48

HLA RELATED DISEASES IN PEDIATRICS: A SINGLE CENTER EXPERIENCE
Nada Boutrid, Hakim Rahmoune, Belgacem Bioud
University of Setif-1, University Hospital of Setif, Algeria

ID: 132 / POST2: Presentation 49

FREQUENCY OF SERUM ELECTROLYTE PANEL ABNORMALITIES IN DEHYDRATED CHILDREN WITH ACUTE GASTROENTERITIS
Teuta Hoxha¹, Luan Xhelili²
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ID: 189 / POST2: 50

STATUS OF AUDITORY FUNCTION IN DIFFERENT PERIODS OF CHILDHOOD IN PATIENTS OPERATED ON CONGENITAL CLEFT LIP AND PALATE IN THE FIRST YEAR OF LIFE
Elena Yurievna Radtsev¹, Alla Vladimirovna Bogoroditskaya², Marina Evgen'evna Sarafanova², Andrey Georgievich Pritko²
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ABSTRACTS

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ID: 265 / OP1-RD-CC: Presentation 1

ORAL

Topics: Chronic Conditions, School
Keywords: goal orientation, adolescents, chronic conditions, school, family

SCHOOL AND FAMILY AS PREDICTORS OF GOAL ORIENTATION AMONG ADOLESCENTS WITH AND WITHOUT CHRONIC CONDITIONS

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Introduction: Goal orientation (GO) is one of the most important psychological skills. Especially in adolescence GO helps young people make decisions and plans associated with the developmental tasks realization.

Purpose: The aim of this study was to assess whether perception of school and family predicts goal orientation among Polish adolescents with and without chronic condition (ChC). The following research problem was defined: Are there any differences between goal orientation predictors in two groups - healthy and unhealthy adolescents?

Material and Methods: This study was a part of the Health Behaviour in School-aged Children survey, a WHO Collaborative Cross-national Study (HBSC). This research was supported with Grant funded by National Science Centre (Grant No. 2013/09/B/HS6/03438). Data were collected in Poland in 2014 on the sample of 4085 13-15 year-olds. The HBSC standard questionnaire was used. GO was measured by Goal Orientation Scale for Teenagers. The following scales and items were used: student's autonomy during lessons, teacher's support, peer support, school related parents' support, academic rewards, teacher's praise, school effort, academic achievement (self perception and teachers perception), school performance (social position in peer school group), family social position. Mean indexes of scales were measured. The one-way analysis of variance (ANOVA) and linear regression model were used. Regression models were estimated separately for healthy adolescents and adolescents with chronic conditions.

Results: One fifth of the students indicated the occurrence of chronic conditions. There was no difference in GO index between healthy and unhealthy adolescents. Mean GO score was 17.83 (SD=4.696) for students without ChC and 17.52 (SD=5.071) for students with ChC. Regarding to adolescents without ChC, 6 out of 13 variables were included in the final model, which explains 19.2 % of the GO variability. There were: academic achievement (self perception), parents support, school performance (social position in peer school group), teacher praise, family social position and academic achievement (teacher opinion). Regarding to the adolescents with ChC 7 variables were included in the final model which explains 24.7% of the GO variability. The most important were: parents support and academic achievement (self perception). For adolescents with ChC also school effort and grade were predictors of the GO.

Conclusion: Predictors of goal orientation among healthy and unhealthy adolescents were different. The goal orientation may be reinforced by parents support and reducing of school stress among adolescents with chronic conditions and by high level of academic achievement among healthy adolescents.

ID: 182 / OP1-RD-CC: Presentation 2

ORAL

Topics: Chronic Conditions
Keywords: adolescent health, chronic condition, health-related quality of life, life satisfaction, psychological symptoms.

HEALTH-RELATED QUALITY OF LIFE IN ADOLESCENTS WITH CHRONIC CONDITIONS: HIGHLIGHTS FROM THE PORTUGUESE HBSC-2014

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Introduction: Living with a chronic condition during adolescence, where several changes occur (biological, psychological and social), is a major challenge for adolescents, that can, therefore, be at higher risk for vulnerable health outcomes.

Purpose: The main aim is to assess the impact of living with a chronic condition on health-related quality of life (HRQoL), psychological symptoms (depression-“feeling low”; anxiety-“feeling nervous”) and life satisfaction, comparing with healthy peers.

Materials and Methods: Using the HBSC 2014 database (cross-sectional survey), a representative sample of 6026 Portuguese adolescents (52.3% girls; average age: 14±1.7 years old), attending the 6th, 8th and 10th grades, and, randomly selected from 36 clusters of mainstream schools (473 classes) were included. From these, 1022 adolescents reported to have a chronic condition (17.8%). The above study variables were respectively measured with KIDSCREEN-10, HBSC Symptom Checklist and Cantril's Ladder of Life Scale. Chronic condition was defined as a long-term disability, illness or medical condition that has been diagnosed by a doctor. Descriptive statistics and ANOVA was performed for
The total sample, and a linear regression (controlling for age, gender, and FAS-Family Affluence Scale, an alternative measure for Socioeconomic Status) was conducted only for the group of adolescents with chronic condition. The significance level was set at p<0.05.

**Results:** Adolescents with a chronic condition were more likely to have a poor HRQoL (75.6±14.0 vs. 78.2±13.3; F(1,5754)=31.60, p<0.001)), higher frequency of reported symptoms of depression (4.4±1.1 vs. 4.1±1.3; F(1,5755)=37.66, p<0.001)) and anxiety (3.9±1.3 vs. 3.5±1.4; F(1, 5755)=75.58, p<0.001)), and worse life satisfaction (7.26±2.1 vs. 7.47±1.9; F(1,5755)=8.90, p=0.003)), when compared with their healthy peers. The final adjusted regression model was statistically significant [F(6, 934)=133.53, p<0.001] and accounted for approximately 46% of the explained variance (R²=0.46). A higher health-related quality of life was significantly associated with all the study variables: psychological symptoms, namely depression (β=3.61, p<0.001), and anxiety (β=1.32, p<0.001), and also with life satisfaction (β=2.21, p<0.001), being depression the most important one.

**Conclusions:** These findings highlight that the adolescents living with a chronic condition can be more vulnerable and may present a higher risk for poor HRQoL, psychological symptoms and life satisfaction, thus, more likely to need support and opportunities for a healthy youth development. Interventions should implement a “health assets” approach and take into account a more multifactorial understanding of the impact of a chronic health condition in adolescents, including the assessment of these variables and the promotion of a healthy psychological well-being.

**Materials and Methods:** We used data from the Danish HBSC 2014 (n=4534), 3824 answered the questions on chronic conditions (response rate=84.0%). Data were collected by electronic questionnaires completed during a school lesson. Chronic condition was measured by 17 pre-categorized conditions (e.g. asthma, allergy, diabetes, arthritis, migraine, ADHD, OCD, depression and eating disorder) plus an open ended question on other conditions. For each chronic condition indicated, the adolescents were asked whether their condition affected them at home, at school or in their leisure time. Chronic conditions were categorized into chronic somatic conditions (CSC) and chronic psychiatric conditions (CPC) and whether the adolescent were affected at least weekly. Prevalences were standardized by age and gender.

**Results:** Among 13- to 15-year old boys and girls 44.0% reported a CSC and 9.1% a CPC. Around one third of adolescents with CSC and two third of adolescents with CPC reported that the chronic condition affected them at home, at school or in leisure at least weekly. Adolescents with a CPC were disadvantaged on most outcomes regardless of whether they felt that their chronic condition affected their daily life. Often a stepwise relation was observed, for example frequency of adolescents who did not like school was 13.5% among adolescents with no CPC, 22.6% among adolescents affected less than weekly by their CPC and 34.2% among adolescents affected at least weekly by their CPC. The adolescents feeling affected by their CSC were more vulnerable on a number of outcomes. For example frequency of adolescents often or very often feeling lonely was 7.3% among adolescents with no CSC, 7.0% among adolescents affected less than weekly by their CSC and 13.6% among adolescents affected at least weekly by their CSC. No differences between the CSC groups were observed for some outcomes, e.g. drunkenness.

**Conclusions:** Adolescents with chronic conditions seem to be affected on many aspects of the life, health and health behavior. We need to know more about this in order to develop successful targeted interventions.
Abstracts

OP1-RD-CC: Oral Presentations on Rare Diseases and Chronic Conditions

**Materials and Methods:** After parental consent, 7023 sampled college students completed a self-administered standardized anonymous questionnaire in class (mean-age 13.5), of which 1005 reported a chronic condition and 286 that it affected their school participation (mean age 13.5). Meanwhile, an adapted version of the questionnaire (shortened, simplified, illustrated ...) was administered to 700 ULIS students with cognitive disorders (mean-age 14.2).

**Results:** Students enrolled in regular classes reporting a chronic condition altering their school participation differ from their able-bodied peers: lower life satisfaction, higher rates of victims of bullying, lower rates of positive perceived health, higher repetition rates. Meanwhile, ULIS students tend to give higher responses in all measured areas, including higher rates of bullying victimization.

**Conclusion:** It appears that life satisfaction of students with chronic conditions differs from that of their able-bodied peers, altered among those schooled in mainstream classes, higher among those with cognitive disorders schooled in ULIS. Those findings, directly collected from students with chronic conditions, were collected among those with cognitive disorders for the first time. They should inform targeted prevention programs, or at least allow general programs to match their specific needs.

ID: 278 / OP1-RD-CC: Presentation 5

**ORAL**

**Topics:** Chronic Conditions, Addictive Behaviours (including: Alcohol, Tobacco and Cannabis use), General Pediatrics

**Keywords:** Vomiting, Teenager, Cannabis Hyperemesis Syndrome

**AN UNUSUAL CASE OF TEENAGE VOMITING**

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Gastrointestinal symptoms such as acute vomiting, diarrhoea and abdominal pain are common causes of worldwide morbidity and hospitalisation in children. These non-specific presentations have broad diagnostic implications ranging from the benign to life threatening. This sometimes results in expensive diagnostic work-ups and unnecessary medical therapies with potential side effects.

A sixteen year old male presented to the emergency department with a one week history of daily copious vomiting and intermittent diarrhoea. Prior to this, he had multiple medical visits to his family physician and subsequently to an adult gastroenterologist. Initial investigations included stool examination which revealed positive Clostridium difficile toxin. Treatment with oral metronidazole was commenced. However his symptoms worsened, which resulted in multiple emergency department visits and subsequent admission for intravenous hydration and ongoing metronidazole therapy. An endoscopic examination was normal. Despite multiple intravenous antiemetics, his vomiting did not abate and he developed Mallory Weiss syndrome as well as coffee ground emesis.

On further history, he had one past episode of severe intractable vomiting seven months previously at which time, he was diagnosed with gastroesophageal reflux and placed on proton pump inhibitor (PPI) since. A Paediatrician was eventually consulted and further careful history revealed the diagnosis.

**Conclusion:**

Leptospirosis is a zoonosis characterized by a broad spectrum of clinical findings and occasionally could develop circulatory collapse and shock. At least 90% of all patients are anicteric and they frequently escape definitive diagnosis because jaundice and azotemia are absent.

**LEPTOSPIROSIS WITH SEPTIC SHOCK**

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**Introduction:** Leptospirosis is a zoonosis characterized by a broad spectrum of clinical findings and occasionally could develop circulatory collapse and shock. At least 90% of all patients are anicteric and they frequently escape definitive diagnosis because jaundice and azotemia are absent.

**Clinical case:** A 14-year-old teenage boy who lives in city was admitted with high-grade fever (40°C) with 7 days of evolution. On examination no rash was found neither any sign of tache noir. He was pale, had poor peripheral perfusion, tachycardia (FC=140/min), hypotension (60/30 mmHg) and oliguria (0.7ml/Kg/h). He was admitted in intensive care unit with circulatory collapse under ionotropic supports and supplementary oxygen and the initial therapy included ceftriaxone, doxycycline and ciprofloxacin. Laboratory-test showed hemoglobin 11.9 g/dL, an almost prominent neutrophilia (87.5%) with leukocytosis (1500/uL), CRP 119 mg/dL, GOT 80 U/L, GPT 150 U/L and albumin 2.7, other exams were normal. The abdominal ultrasound showed hepatosplenomegaly, ascites, bilateral pleural effusion, pericardial effusion and a mild mitral insufficiency. The ophthalmologic evaluation documented episcleritis, having been treated with topical dexamethasone and neomycin. Blood culture, rickettsias, bartonella and enterovirus were negatives. on urine direct test was documented forms of leptospira and positive real time PCR. The patient had a progressive improvement on his clinical condition and completed 14 days under ceftriaxone. The review of the clinical history showed contact with dogs, cats and rats. An infectious disease notification was made and the public health delegate was called to intervene.

**Conclusions:** Leptospirosis can be an underdiagnosed infection in our country. The doctor has to have a high clinical suspicion to do the diagnosis.
Introduction: X-linked lymphoproliferative disease (XLP) is a rare primary immunodeficiency characterized by susceptibility to severe Epstein-Barr virus (EBV) infection. XLP-1 is caused by a mutation in SH2D1A which encodes the intracellular adaptor molecular SAP, expressed mainly in T cells and NK cells. It regulates signal transduction pathways downstream of the SLAM family of surface receptors to control CD4+ T cell (and B cells), CD8+ T cell and NK cell function. It can present as fulminant hemophagocytic lymphohistiocytosis (HLH), hypogammaglobulinemia, auto-immunity or lymphoproliferation.

Clinical report: We describe a case of a 14-year-old male with a 4-months history of abdominal pain, weight loss and asthenia. He presented tenderness in the right lower quadrant and the CT scan and colonoscopy revealed the presence of a vegetant mass in the ileocaecal transition. He was submitted to a 20 cm intestinal resection due to intestinal perforation. The histological examination led to the diagnosis of an EBV-positive Burkitt lymphoma. His family history was remarkable for the presence of an older brother who had died in 1995 at the age of 2 with fulminant EBV-HLH. This prompted the investigation of underlying XLP: he had severe hypogammaglobulinemia, his serology for EBV was positive for VCA IgG but negative for EBNA, he had no switched memory B-cells and no NK cells, thus allowing a presumptive diagnosis of SAP deficiency (XLP-1).

Discussion: Although the patient had a typical presentation of an intestinal lymphoma, the familiar history of an early death in a boy following EBV infection raised the hypothesis of XLP, which was confirmed promptly, thus allowing proper management and counselling. The recognition by the Paediatricians of the different phenotypes of XLP is extremely important to allow an early multidisciplinary management of the disease, which is often fatal.

Introduction: Acetaminophen is one of the most frequently used analgesics and antipyretic agents. However, the easy access to this medication and the population’s unawareness of its toxic effects have contributed to a rise in the number of intoxications. While acute toxicity occur mostly from intentional overdose, chronic acetaminophen toxicity is attributable to unintended inappropriate dosing. There is lack of consensus on the management of paracetamol chronic overdosage.

Case: A 4-year-old girl with chickenpox, was medicated with desloratadine, Caladryl® and acetaminophen in supratherapeutic dosis - 120 mg/kg/day in the previous 24h and 80 mg/kg/day in the 4 days before, with a median diary dosis in the 72 hours preceding the internment, superior to 100 mg/kg/day. On the sixth day of illness she presented multiple infected vesicular lesions with impetigo and was treated with fluocoxacilin. Analysis revealed 3800 leucocytes/ml, neutrophils 62.3% and 130000 platelets; PCr 27,2g/l, PT 12,9 seconds and apTT 34 seconds, aST 84 uI; al T 102uI. Since she was given multiple dosis superior to >75 mg/kg/day, she was administered a perfusion of N-acetylcysteine: three dosis in the first day (first dosis: 150 mg/kg diluted in 100 ml of dextrose 5% in 1 hour; second dosis: 50 mg/kg in 250 ml of dextrose 5% in 4 hours; third dosis: 100 mg/kg in 500 ml of dextrose 5% in 16 hours) and 100 mg/kg during the following days, repeating analysis every 16 hours. Though the levels of seric acetaminophen became negative at day 2 of internment, perfusion was interrupted only at day 7, when normalization of hepatic proves was attained. The levels of acetaminophen in the blood became negative (<3 ug/ml) at day 2 and renal function was never effected.

Conclusions: Chronic acetaminophen toxicity in levels superior to 100 mg/kg/day for 72 hours preceding the internment resulted in asymptomatic elevation of transaminases in our patient, without any complications reported during her evolution. Since several protocols are approved for chronic acetaminophen toxicity in children, a better optimization is needed with elaboration of consensus.

Introduction: A two year old girl presented with prolonged bleeding following a fall. A strong family history of haemophilia was ignored during visits to health professionals due to the misconception that female carriers are unaffected! She was extensively investigated and was found to have Factor VIII deficiency which
Abstracts

**OP1-RD-CC: Oral Presentations on Rare Diseases and Chronic Conditions**

did not respond to Tranexamic acid and Desmopressin. This was discovered three weeks prior to her preoperative assessment for an adenotonsillectomy. Routine pre op checks, which do not always involve clotting and the above misconception, could have affected her severely perioperatively. This case highlights the importance of detailed history taking including family history and remembering that Haemophilia can, and does affect females. Case report AG was born without complication, at term by forceps delivery. Mother had heavy postpartum bleeding. She developed obstructive sleep apnoea, and adenotonillectomy was planned. Three weeks before her pre-operative assessment she fell, tearing her frenulum. Persistent bleeding led to a paediatric assessment. Initial investigation revealed her haemoglobin was 88, APTT 1.5 and APTT ratio 45 and rest normal. Further investigation revealed low Factor VIII levels (36), 72% of expected. Other factors were normal. Detailed history taking revealed a family history of Factor VIII deficiency (maternal grandmother: carrier, maternal aunt: affected). AG received Tranexamic Acid and a Desmopressin infusion, followed by a Factor VIII infusion at the Haematology unit due to persistent bleeding. Communications between ENT a haematologist is ongoing to carry out a safe surgery.

**Conclusion:** This was a near miss event which will require ongoing care from a consultant haematologist. Clinicians need to be aware that Haemophilia can, and does, affect females. 28% of female carriers of Haemophilia A are known to have Factor VIII levels consistent with mild Haemophilia. This case should raise our awareness about thorough history taking, and updating our knowledge about Haemophilia, to avoid future catastrophes. There are also important implications for her mother. We recommend checking Factor VIII activity levels in all haemophilia carriers before haemostatic challenge, such as pregnancy.

**OP2-TX-CUR-MU-SX: Oral Presentations on Addictive Behavior, Current Health conditions, Medicine Use and Sexual Health**

**INCREASING TRENDS OF ILLICIT DRUG USE AMONG ROMANIAN UNIVERSITY STUDENTS FROM 1999 TO 2011**

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**Introduction:** After the fall of the communist regime in 1989, Romania started a process of political, economic and socio-cultural changes, which led in 2007 to the admission of Romania into the European Union. Along with these socio-economical changes, the health risk behaviours of Romanian young people, such as illicit drug use, also suffered several changes.

**Purpose:** The present study investigates the evolution of illicit drug use among Romanian university students from 1999 to 2011, giving a special attention to possible gender differences. Factors associated with illicit drug use will be also investigated.

**Material and Methods:** The study was performed in Cluj-Napoca, Romania, during three waves: the first one in 1999 (T1), the second one in 2003 (T2) and the last one in 2011 (T3). The study was carried out by means of anonymous questionnaires among university students aged 19-24. The study included 240 students in 1999, while 320 students were included in each of the last two waves.

**Results:** The results show that among girls the lifetime illicit drugs use increased statistically significant from 2.5% in 1999 to 7.5% in 2003, respectively 15% in 2011. Among boys the trend was also increasing, the prevalence of illicit drug use was 14.2% at T1, 18.1% at T2 and it increased dramatically to 30.6% at T3. The percentages of students reporting cannabis use was almost identical with the total prevalence of illicit drug use. Ecstasy was the second most frequent drug used by the students; its consumption had also an increasing trend during the examined period (from 0 to 5.6% among girls and from 0.8% to 11.2% among boys). The results of the bivariate correlation analyses show that illicit drug use at least once during lifetime was more likely to try illicit drugs, while among boys illicit drug use was associated with poorer academic performance and depression episodes were more likely to try illicit drugs, among girls who declared stress management problems and depression episodes were also more likely to try illicit drugs, while among boys illicit drug use was associated with poorer academic performance.

**Conclusions:** The data pointed out by our study call for comprehensive actions regarding prevention of illicit drug use among Romanian young people.

**SELF-REPORTED EXPOSURE TO CIGARETTE PACK WARNINGS IN SCHOOL AGED CHILDREN AND PERCEPTIONS OF SMOKING RELATED HARM**

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**Introduction:** Tobacco use is a leading preventable cause of death and ill-health globally. The prevalence of cigarette smoking has decreased in many developed countries, but rates remain unacceptably high among children. Efforts made to communicate the negative consequences of smoking have included the placement of health warnings on cigarette packs. Such warnings aim to prevent initiation and encourage cessation through the education of consumers.

**Purpose:** This paper describes the current prevalence of smoking in 14-17 year olds and self-reported levels of exposure to cigarette packs
and warnings. Second, the extent to which exposure to cigarette packs and warnings is associated with perceptions of smoking related harm are examined whilst controlling for demographic factors and smoking status.

**Materials and Methods:** The sample was drawn from the nationally representative 2014 Irish Health Behaviour in School-aged Children (HBSC) study. Children were recruited from schools (59% response rate) and eligible children invited to participate (response rate 84.5%). Participants aged 14-17 years (n=5069) completed self-report questions including smoking behaviour, exposure to cigarette packs and warnings, and perceptions of ten potential consequences of smoking. Prevalence rates and 95% confidence intervals were estimated. Logistic regression analyses assessed relationships between exposure to cigarette packs and warnings in the last 6 months and perceptions of smoking related harm.

**Results:** The prevalence of current smokers was 12.2% (95% CI, 11.3-13.1%), comprising 12.8% of boys and 11.8% of girls (p=0.3). Over one quarter (26.6%, 95% CI, 25.3-27.8%) of children had not seen a cigarette pack in the last 6 months while 20.5% (95% CI, 19.4-21.6%) had seen a cigarette pack and frequently read the warnings. A higher proportion of smokers reported infrequently/frequently reading warnings on cigarette packs compared non-smokers (79.3% vs. 54.0%, p=0.000). Between 86.0% and 97.7% of children agreed with each risk perception statement. Children who reported lower levels of exposure to cigarette packs and warnings were less like to agree with perceptions that tobacco smoke is toxic, smoking causes wrinkling and early aging, and smoking can cause a slow painful death. Non-smokers were 73% more likely to agree to all ten statement than smokers (1.73, 95% CI 1.30-2.30).

**Conclusions:** Children were not fully informed about the risks of smoking, especially current smokers. However, health warnings on cigarette packs may be reinforcing of non-smoking behaviour among existing non-smokers. To reduce prevalence rates we need to target social norms associated with smoking and provide further education on the harms of smoking.

**ID:** 109 / OP2-TX-CUR-MU-SX: Presentation 3

**ORAL**

**Topics:** Addictive Behaviours (including: Alcohol, Tobacco and Cannabis use), General Pediatrics

**Keywords:** alcohol, adolescent

### ALCOHOL INTOXICATIONS IN ADOLESCENTS OVER THE YEARS 2007 TO 2014, A LONGITUDINAL STUDY IN ALL DUTCH HOSPITALS

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**Purpose:** alcohol intoxication in children and adolescents is a severe health concern in current pediatrics. In this longitudinal study we monitored intake and treatment of 4,378 adolescents in Departments of Pediatrics in all Dutch hospitals over the years 2007 to 2014.

**Methods:** from 2007 till 2014 we collected data on all adolescents (inclusion criteria: aged younger than 18 and with a positive BAC), treated by a pediatrician in a hospital. Within the Dutch Pediatric Surveillance System (NSCK), pediatricians report adolescents and fill in a questionnaire, making use of a patient interview.

**Results:** in total 4,378 adolescents were treated, mainly (3,376; 77%) related to severe alcohol intoxication; main age was 15.3 years, and 51% were boys. BAC level is 1.87 on average, and reduced consciousness last almost three hours. Almost 11.8% of the adolescents with alcohol intoxication had simultaneous drug usage.

**Conclusions:** alcohol intoxication treatment remains an issue of importance. This dataset enables us to conduct longitudinal and interesting analyses on alcohol intoxication characteristics in youngsters, medical treatment, and events leading up to the intoxication.

**ID:** 171 / OP2-TX-CUR-MU-SX: Presentation 4

**ORAL**

**Topics:** Addictive Behaviours (including: Alcohol, Tobacco and Cannabis use)

**Keywords:** Binge Drinking, Acute pancreatitis, Adolescence

### BINGE DRINKING AS CAUSE OF ACUTE PANCREATITIS IN ADOLESCENCE

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**Introduction and Purpose:** Binge Drinking (BD) is usually characterized by the use of at least 4 doses of alcohol on a single occasion for women and 5 doses for men. BD occurs mostly in recreational settings with the intention of becoming intoxicated by heavy consumption of alcohol over a short period of time. This behaviour is associated with increased risk of psychiatric disorders and multiple adverse effects on organ systems.

**Materials and Methods:** Case report of acute pancreatitis after BD.

**Results:** A healthy 16 years old male went to the Emergency Department with diffuse abdominal pain mainly in left quadrants and perumbical area in the last 48 hours and also vomiting and anorexia. There was no fever, change of bowel habits or any other symptom. He was prescribed with proton pump inhibitor with no improvement. Physical examination revealed pallor skin and abdominal tenderness on the left hypochondria and epigastric region. Blood test revealed elevation of AST/ALT and pancreatic enzymes (amyylase and lipase). Other causes such as drugs, medication intake or EBV and CMV infections were excluded. He reported heavy alcoholic intake (13 beers and a bottle of vodka) through one night, 2 days before. Ultrasound showed a small amount of intra-abdominal free fluid and mild splenomegaly with no signs of biliary obstruction. CT scan showed a normal-sized globular pancreas with densification of peripancreatic fat suggestive of acute pancreatitis. He was admitted for acute pancreatitis of alcoholic etiology and kept NPO with intravenous fluids and pain control.
There was resolution of symptoms and improvement of biochemical parameters. He was discharged within a week. After one month, he remained asymptomatic with normal blood tests. No late complications were stated.

**Conclusions:** Alcohol consumption is a rare cause of acute pancreatitis in pediatric age. However, with the increase trend of BD amongst teenagers, this etiology should always be considered so that early treatment and counselling can be provided.

**ADOLESCENT HEALTH IN TIMES OF ECONOMIC RECESSION: THE PORTUGAL AND SPAIN CASES**

**Concepción Moreno-Maldonado**1, Inês Camacho2,3, Antonia Jiménez-Iglesias1, Marta Reis2,3, Diego Gómez4, Carmen Moreno1, Margarida Gaspar de Matos2,3

1University of Seville, Spain; 2Aventura Social Team / FMH/ University of Lisbon; 3ISAMB / University of Lisbon; 4Loyola University Andalusia; 5WJCR / ISPA Higher Institute of Applied Psychology

**Introduction:** In 2008 a global economic recession affected the prosperity and living conditions in some European countries. Specifically, the economic recession has had a strong impact on Portugal and Spain, countries in which the financial crisis involves an increase of social inequalities, unemployment rates and a growth in the risk of poverty. Despite evidence of the effect of all those factors on health, studies focused on the impact of the economic crisis on adolescents’ health are still scarce.

**Purpose:** The aims of this study were to analyse the development of macroeconomic factors in Portugal and Spain from 2002 to 2014, and to explore the trends in Spanish and Portuguese adolescents’ health across the same period, paying special attention to the changes produced since the beginning of the economical recession.

**Materials and Methods:** The sample was composed of more than 50,000 adolescents aged 11, 13 and 15 who participated since 2002 in the Health Behaviour in School-aged Children (HBSC). The sample included adolescents corresponding to four editions (2002, 2006, 2010 or 2014) of the study and two countries: Portugal and Spain. The instrument used was the HBSC questionnaire, which includes a variety of measures common to both Spain and Portugal, as is the case of the variables regarding the impact of the economic recession, health (life satisfaction, health complaints, etc.) and lifestyles (eating habits, substance use, etc.).

**Results:** The analysis of macroeconomic factors in both countries showed a decrease of GDP and birth rate, an increase of unemployment rate and risk of poverty, and a slightly increase of mortality rates. In addition, descriptive analysis of adolescents’ health and lifestyles showed some negative trends from 2002 to 2014. Similarities and differences in both countries are examined.

**Conclusions:** This research shows some results that underline the changes suffered in Portugal and Spain as a consequence of the economic crisis, and the possible impact of the economic recession on adolescent health and lifestyles. These results have some implications for intervention, emphasizing the importance for public policy to design strategies and increase efforts that promote adolescent health and healthy lifestyles in periods of economic downturn.

**NEBULIZERS’ EFFECT ON THE DRAINAGE OF PURULENT PLEURAL EFFUSIONS POST ACQUIRED PNEUMONIA IN CHILDREN**

Sylvana Antoine Zoghi, Hala Camil Feghali Abiad, Georges Abi Fares, Marie Claude Joseph Fadous Khalife
Holy Spirit University of Kaslik, Lebanon (Lebanese Republic), University hospital Notre Dame Des Secours

**Introduction:** Asthmatic patients’ ongoing inhaled steroid treatment that develop community acquired pneumonia have lower incidence and severity of parapneumonic effusion (ATS 2012, San Francisco). Our Study: Does nebulization reduce the percentage of pleural drainage following purulent pleural effusion post community acquired pneumonia in children?

**Method and design:** It’s a themed cohort study conducted in the pediatric department of Notre Dame Des Secours university hospital from January 2013 to June 2015. 12 children aged from 1 to 12 years were included upon the documented criteria of presenting pneumonia with purulent pleural effusion without previous treatment. Patients received upon admission nebulizers (salbutamol with budesonide) associated to adapted antibiotics.

A comparison is done with previous study results of a similar group of 23 children (at the same department) who didn’t receive nebulizers but had the adapted antibiotics treatment.

**Results:** Out of the 12 children who received nebulizers 0 needed chest tube insertion (p=0,000). Out of the previous group of 23 children who didn’t receive nebulizers 14 needed chest tube insertion. Nebulizers didn’t prolong children hospitalization (p=0,075).

**Conclusion:** Nebulizers (salbutamol with budesonide) can prevent chest tube placement in purulent pleural effusions, without increasing the risk of a prolonged hospital stay. Further study should be conducted; a multicentric double blind randomized controlled trial is to be introduced in order to establish the existence or not of the relationship.
**OP2-TX-CUR-MU-SX: Oral Presentations on Addictive Behavior, Current Health conditions, Medicine Use and Sexual Health**

ID: 275 / OP2-TX-CUR-MU-SX: Presentation 7

**ORAL**

Topics: Sexual Behaviour and Health
Keywords: sperm banking, adolescents, cancer, barriers

**BARRIERS TO SPERM BANKING IN MALE ADOLESCENTS WITH CANCER: A REVIEW OF THE LITERATURE**

Courtney Lynn Willis
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**Introduction:** Over the last 30 years, survival rates for teenagers and young adults (TYA's) with cancer have significantly improved with an estimated 5-year survival of 80%. Temporary or permanent infertility/subfertility are recognised risks associated with cancer therapies. For sexually mature adolescent males, sperm banking via masturbation is an effective method of attempting to preserve fertility. Despite the recognition amongst healthcare professionals that fertility preservation methods should be discussed with patients, a study by Schover et al reported that it was only offered in 10% of cases. There is great variation in success rates from sperm banking, ranging from 19-67%. 8,27

**Purpose:** What are the barriers to sperm banking amongst male adolescents with cancer?

**Methods:** MEDLINE, TRIP, DYNAMED, NHS Evidence, Cochrane Library, EMBASE and PSYCinfo were searched using the terms “adolescent” or “teenager,” and “cancer” or “neoplasm,” and “fertility preservation” or “sperm banking” or “semen preservation” or “cryopreservation.” Only studies published in English between 2004 – 2015 were included. The search retrieved 138 results, of which 32 were included. Seventy were excluded based on title, and 36 after reading the abstract as they were irrelevant.

**Results:** This literature review identified recurrent barriers to sperm banking in male adolescents with cancer. These have been categorised into patient, healthcare and parent associated factors, and are summarised in table 1. The studies included are qualitative, narrative interviews dependent on personal recall of events and/or emotions during a stressful period.

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<th>Table 1: Overview of the perceived, and actual, barriers to sperm banking amongst adolescents with cancer</th>
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**Conclusions:** Discussing fertility issues at time of initial cancer diagnosis can be challenging for everyone involved. Sensitive discussions and decision making regarding fertility preservation requires knowledge, training, patience and acknowledgement of the barriers addressed in this review. By having an appreciation of the multiple factors that can influence the adolescent’s decision to partake in fertility preservation, healthcare professionals may be able to attempt to address and understand some of the difficulties that the patients, and their parents, may face.

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**OP3-NU-OB-PA: Oral Presentations on Nutrition, Diet, Obesity and Physical Activity**

ID: 175 / OP3-NU-OB-PA: Presentation 1

**ORAL**

Topics: Health Complaints, Nutrition and Diet
Keywords: energy drinks, health complaints, adolescents

**adolescents Consuming Energy Drinks Regularly Are More Likely To Report Daily Health Complaints than Their Peers**

Jana Holubcikova1,2, Peter Kolarcik1,2,3, Andrea Madarasova Geckova1,2,3, Siijmen Reijneveld1,4, Jitse van Dijk1,3,4

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**Introduction:** Adolescents’ energy drink consumption is becoming a major public health problem as the prevalence of regular adolescent consumers increases steeply. There is a growing body of research dealing with the effects of consumption of these drinks. The adverse health effects of sugar and of caffeine have been documented, but evidence of other, stimulating, components lacks.
**OP3-NU-OB-PA: Oral Presentations on Nutrition, Diet, Obesity and Physical Activity**

**Purpose:** The aim of the study was to explore the prevalence of energy drinks consumption among adolescents, the specific risk-groups for regular energy drinks consumption and the association between regular energy drinks consumption and daily health complaints among adolescents.

**Materials and Methods:** We analysed data from the Health Behaviour in School-aged Children (HBSC) study conducted in 2014 in Slovakia. The final sample comprised 9,250 adolescents (mean age 13.5; 50.3% boys). Self-reported measures of energy drinks consumption and daily health complaints (headache, stomach-ache, backache, feeling low, irritability or bad temper, feeling nervous, difficulties with sleeping, feeling dizzy) were used to assess the prevalence of regular energy drinks consumption and its associations with daily health complaints among adolescents.

**Results:** Over 20% of the adolescents reported that they consumed energy drinks at least on weekly basis. This regular energy drinks consumption was higher among boys, and older adolescents, independent of family affluence. Regular energy drinks consumption among adolescents was related to all studied daily health complaints with no gender differences; odds ratios varied from 1.59 for irritability or bad temper, to 1.91 for feeling dizzy.

**Conclusions:** The present study revealed a significant prevalence of adolescents consuming energy drinks on regular basis. Boys and older adolescents were at higher risk to consume these drinks. Adolescent energy drinks consumers were more likely to report daily health complaints. This relationship, be it causal or not, provides a reason to monitor and prevent consumption of energy drinks among adolescents. Regulations of adolescents’ energy drinks consumption may be warranted. Moreover, research is needed to explore the causes of the relationship.

**CHALLENGES OF EXCLUSIVE BREASTFEEDING AMONGST MOTHERS IN ENUGU, SOUTHEAST NIGERIA**

**Adaebi, Ijeoma Bisi-Onyemaechi, Ugo Chikani, Ikechukwu, Frank Ogbonna, Henrietta Okafor**
Department of Paediatrics, University of Nigeria Teaching Hospital, Enugu, Nigeria

**Introduction:** The feeding of infants with breast milk only for the first six months of life has so many advantages more so in developing countries where infant formula is not readily accessible to the general population. Despite the very high levels of awareness, exclusive breastfeeding rates have been on the decline in Nigeria.

**Purpose:** This study aims to find out challenges mothers encounter while breastfeeding exclusively as they may be contributory to the declining rates of exclusive breastfeeding in Nigeria.

**Materials and Methods:** This was a cross sectional descriptive study of 304 mothers in Enugu. Data was collected using interviewer-administered questionnaires. The demographics, knowledge and practice of exclusive breastfeeding and challenges encountered were obtained.

**Results:** The mean age of the mothers was 26.6 years with an age range of 19 to 50 years. About 90% of the respondents had secondary and above education while 97.3% were married. Awareness of exclusive breastfeeding was 98% while exclusive breastfeeding rate was 26%. Mothers who had never been visited by lactation experts (79%) were 3.8 times less likely to breastfeed exclusively. (P=0.006) Those who lacked crèches in their workplace were 2 times less likely to practice exclusive breastfeeding (P=0.02). The belief that breast milk alone was not sufficient food for a baby was reported by 26.6% of mothers. Mothers with this belief were 5.9 times less likely to breastfeed exclusively (P<0.001). The report of continuous crying of babies even after breastfeeding as opposed to formula feeding was also a significant challenge (P=0.03, OR=2.58). Lack of support from mother/mother-in-law and partners was also found to be a significant challenge (P=0.001) and such mothers were 2-3 times less likely to breastfeed exclusively. Maternal level of education, occupation, return to work, fear of weight gain and caesarean delivery were not significant challenges to the practice of exclusive breastfeeding.

**Conclusion:** Despite the high level of awareness, the exclusive breastfeeding rate was low. Some of the identified challenges were the belief that breast milk is not sufficient for a baby, lack of support from the family and lack of crèches in the workplace.

**DETERMINANTS OF EXCLUSIVE BREASTFEEDING IN SUB SAHARAN AFRICA: AN ANALYSIS OF POPULATION DATA USING A MULTILEVEL APPROACH**

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**Introduction:** Exclusive breastfeeding (EBF) in infants under 6 months of age is a simple and cost-effective intervention to improve child health and survival. However, only one out of three infants less than six months old is exclusively breastfed in Africa.

**Purpose:** The study aims to estimate the prevalence of exclusive breastfeeding (EBF) for the first six months in Sub Saharan Africa (SSA) and to examine maternal demographic, socioeconomic and childhood factors, in addition, to explore countries variations associated with EBF.
Materials and methods: This study uses cross-sectional data from the Demographic and Health Surveys in 27 SSA countries. The key outcome variable was EBF status in the last 24 hours before the interview. The multivariate analysis involves application of multilevel logistic regression models to explore individual and contextual regional/country-level factors associated with EBF in sub-Saharan Africa. In the multilevel analysis, countries constitute the highest (third) level (n=27), while regions (i.e., province) within country constitute the second level.

Results: The overall EBF prevalence in SSA was 36.0% and the prevalence of EBF was highest in Rwanda (84.9%) and lowest in Gabon (6.3%). Of the total variation in EBF, 23.2% could be attributed to country and region level factors when background demographic, socio-economic, as well as maternal and childhood factors were controlled for. In the multilevel regression model, factors that were significantly associated with increased likelihood of EBF were: mothers with secondary and above educational status, aged 25-34 years, rural residence, richer household wealth index, 4+ ANC visit, delivering in a health facility, single births, female infants, early initiation of breastfeeding and children belonging to the younger age groups.

Conclusions: Information, Education and Communication programmes and interventions aimed at “mothers with no education, in urban area, in poor/poorer group, poor antenatal care” and “infants with late initiation of breastfeeding”, infants with older age” should be formulated, implemented, and monitored to achieve substantial increase in EBF rate in SSA. SSA countries should disseminate and implement the Baby-Friendly hospital practices and create mother-support groups.

OP3-NU-OB-PA: Oral Presentations on Nutrition, Diet, Obesity and Physical Activity

Liane Correia-Costa1, Teresa Sousa2, Manuela Morato2, Joana Afonso2, José Carlos Areias3, Franz Schaefer4, António Guerra5, Alberto Caldas Fonso6, Ana Azevedo7, António Albino-Teixeira8
1 Division of Pediatric Nephrology, Integrated Pediatric Hospital, Centro Hospitalar São João, Porto, Portugal; 2 EPIUnit - Institute of Public Health, University of Porto, Porto, Portugal; 3 Department of Pharmacology and Therapeutics, Faculty of Medicine of University of Porto, Portugal; 4 MedInUP - Center for Drug Discovery and Innovative Medicines, University of Porto, Porto, Portugal; 5 Division of Pediatric Cardiology, Integrated Pediatric Hospital, Centro Hospitalar São João, Porto, Portugal; 6 EPIUnit - Institute of Public Health, University of Porto, Porto, Portugal; 7 Division of Pediatric Nephrology, Center for Pediatrics and Adolescent Medicine, University of Heidelberg, Heidelberg, Germany; 8 Division of Pediatric Nutrition, Integrated Pediatric Hospital, Centro Hospitalar São João, Porto, Portugal

Introduction: Oxidative stress, along with low-grade inflammation, appears to represent an important mechanism linking obesity with cardiovascular and/or renal disease.

Purpose: We investigated if oxidative stress and NO production/metabolism are increased in overweight and obese prepubertal children and correlate with cardiovascular risk and renal function.

Materials and methods: Cross-sectional evaluation of 313 children aged 8-9 years. Anthropometrics, 24-hour ambulatory blood pressure, pulse wave velocity (PWV), insulin resistance (HOMA-IR), inflammatory/metabolic biomarkers, renal function, plasma total antioxidant status (TAS), plasma and urinary isoprostanes (P-Isop, U-Isop), urinary hydrogen peroxide (U-H2O2), and plasma and urinary nitrates/nitrates (P-NOx, U-NOx) were compared in normal weight, overweight and obese groups, according to WHO body mass index (BMI) z-score reference.

Results: Obese and overweight children had higher U-Isop and U-NOx. TAS correlated negatively with U-Isop and positively with PWV. HOMA-IR, the absence of dipping and U-H2O2 were associated with U-Isop, independently of BMI and estimated glomerular filtration rate (eGFR). Total cholesterol and U-H2O2 were associated with U-NOx, independently of BMI, eGFR and P-NOx. In overweight and obese children, eGFR decreased across P-NOx tertiles.

Conclusions: Oxidant status is increased in relation to fat accumulation and, even in young children, it translates into higher levels of cardiovascular risk markers and affects renal function.

ID: 129 / OP3-NU-OB-PA: Presentation 4
ORAL
Topics: Overweight Prevalence
Keywords: Obesity, Oxidative stress, Renal function; Cardiovascular risk

LOW AND HIGH BIRTH WEIGHT CHILDREN HAVE INCREASED SCREEN TIME AT SCHOOL-AGE

Adrienne Rahde Bischoff1, André Krumel Portella2, Roberta Dalle Molle3, Aída Faber4, Narendra Arora5, Robert Levitan5,6, Patricia Peluso Silveira7,8,9,10, Laurette Dube
1Hospital de Clínicas de Porto Alegre, Brazil; 2Universidade Federal de Ciências da Saúde de Porto Alegre, Brazil; 3Universidade Federal do Rio Grande do Sul, Brazil; 4Desautels Faculty of Management, McGill Center for the Convergence of Health and Economics, Montreal, Canada; 5The INCLEN Trust, India; 6Institute of Medical Science, University of Toronto, Canada; 7Centre for Addiction and Mental Health (CAMH), Toronto, Canada

Introduction: Environmental modifications during ‘critical periods’ of development permanently increase the risk of overweight and associated diseases in adulthood. Specific food preferences, feeding behaviors and diminished physical activity are possible mechanisms involved in the increased risk of such diseases. There are reports of increased prevalence of sedentary behavior in individuals born with low birth weight, but other findings have been controversial. There is also emerging evidence that the opposite spectrum, with high birth
weight, may also have altered physical activity levels. One meta-analysis described a U-shaped association between birth weight and leisure time physical activity.

**Purpose:** Considering the controversial data regarding birth weight and sedentarism levels, in this study we aimed to further exploring this possible association among school-aged children.

**Materials and methods:** 616 families were recruited in the Montreal Metropolitan Area for household demographic information, children’s anthropometrics (height and weight), and questionnaires on sedentary time and physical activity level. Birth weight ratio (BWR) was calculated (observed birth weight/mean population birth weight, sex and gestational age-specific), and the sample was classified in three groups: Small for Gestational Age (SGA) if BWR<0.85, Adequate (AGA) if BWR 0.85-1.2 and Large (LGA) if BWR>1.2.

**Results:** There were 420 AGA, 76 SGA and 66 LGA children on the cohort. There were no differences between the groups regarding income, gestational age, body mass index or ethnicity. A Two-way ANOVA using sex and birth weight group as variables shows that both SGA and LGA children have significantly higher screen time when compared to AGA children (p<0.0001, pos hoc Student Newman Kuels). Boys in general have increased screen time compared to girls, but there was no interaction between sex and birth weight group. The total amount of physical activity was not different between the groups.

**Conclusions:** The study reveals that both low and high birth weight are associated with increased screen time. Although physical activity levels were not different among the groups, screen time may be an indirect marker of a sedentary lifestyle that cannot be properly accounted in a physical activity level questionnaire. A sedentary lifestyle contributes to the development of overweight and associated diseases in the long term, and as both SGA and LGA have increased risk for developing adulthood obesity, this finding may describe an important point for counseling for these specific vulnerable groups.

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<td><strong>ORAL</strong></td>
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<td>Topics: Health Complaints, Physical Activity, Life Satisfaction</td>
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<td>Keywords: organized leisure-time activities, health complaints, adolescents</td>
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**HEALTH BENEFITS FROM ADOLESCENTS PARTICIPATION IN ORGANIZED LEISURE-TIME ACTIVITIES**

**Andrea Madarasova Geckova**, Petr Badura, Dagmar Sigmundova, Zuzana Dankulincova Veselska

1PJ Safarik University in Kosice, Slovak Republic; 2Institute of Active Lifestyle, Faculty of Physical Culture, Palacky University, Olomouc, Czech Republic

**Introduction:** Organized leisure-time activities (OLTA) form an important context providing opportunities for alignment of individual strengths and various developmental assets. They have already been recognized as a beneficial environment stimulating adolescents’ thriving, which, in turn, should lead to enhancement of their health.

**Purpose:** The aim of the study was to explore the associations between participation in OLTA and health outcomes in Slovak adolescents.

**Materials and Methods:** Data from the Health Behaviour in School-aged Children (HBSC) study conducted in 2014 in Slovakia were analysed. The final sample comprised 2,898 adolescents aged (mean age 14.35; 50.3 % boys). The associations between participation in types of OLTA and selected health outcomes (self-rated health, life satisfaction, having sleeping difficulties, feeling low, feeling irritable/bad tempered) were analysed using logistic regression models adjusted for age and gender.

**Table 1:** The associations between participation in types of OLTA and selected health outcomes adjusted for age and gender (odds ratio and confidence intervals)

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<th>Table 1: The associations between participation in types of OLTA and selected health outcomes adjusted for age and gender (odds ratio and confidence intervals)</th>
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<td><strong>Excellent self-rate health</strong></td>
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**Results:** Twenty per cent of adolescents do not participate in any OLTA, while 31.0% reported participation in combination of sport and other type of OLTA, 31.8% reported participation only in sport activity (individual and/or team sport), and 17.2% reported participation in other than sport activity (art school, youth organizations, recreation/leisure centres, church meeting/singing). Adolescents participating in at least one OLTA reported excellent health, being satisfied with life, and having health complaints less than once a week significantly more frequently than their passive counterparts. Odds ratios varied from 1.28 for feeling low to 2.06 for self-rated health. Being involved in sport activity exclusively or in combination of sport and other type of OLTA was significantly associated with better health outcomes, while being involved exclusively in other type of OLTA was not.

**Conclusions:** Participating in at least one type of OLTA was significantly associated with better health outcomes. However, participating in OLTA, but not being involved in a sport activity was not sufficient to bring this benefit of OLTA.
ASSOCIATION OF MYELOPEROXIDASE LEVELS WITH CARDIOMETABOLIC FACTORS AND RENAL FUNCTION IN PREPUBERTAL CHILDREN

Liane Correia-Costa¹, Teresa Sousa², Manuela Morato², Dina Cosme³, Joana Afonso², Cláudia Mota³, José Carlos Areias³, António Guerra³, Franz Schaefer³, Alberto Caldas Afonso³, Henrique Barros³, António Albino-Teixeira³, Ana Azevedo³
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Introduction: Myeloperoxidase (MPO), an enzyme linking obesity and CV risk in adults, has rarely been studied in young children and no studies assessed its association with renal function.

Purpose: We sought to explore a possible association between serum MPO levels, obesity and other CV risk factors in prepubertal children.

Materials and methods: Cross-sectional evaluation of 309 children aged 8-9 years (161 normal weight and 148 overweight/obese), members of the birth cohort Generation XXI (Portugal). Anthropometrics (body mass index (BMI), waist-to-height ratio (WHtR) and % body fat mass (%bFM) by foot-to-foot bioelectrical impedance analysis), 24-hour ambulatory blood pressure monitoring and pulse wave velocity (PWV) were measured. Insulin resistance was estimated by the HOMA index (considering serum fasting glucose and insulin determinations). Serum MPO levels were assessed by immunoenzymatic assay.

Results: MPO levels were associated with obesity indices (BMI z-score, WHtR and % body fat mass). Higher MPO levels were associated with higher 24-hour and nighttime mean arterial pressure, with non-dipping and with higher values of insulin resistance. In normal weight children the endothelial function, as evaluated indirectly by the PWV, was an independent predictor of the levels of MPO. In overweight/obese children, estimated glomerular filtration rate increased significantly across tertiles of MPO (p (trend)=0.031) and this association held after adjustment for age, sex, neutrophil and monocyte counts and CV risk factors.

Conclusions: Our results reinforce the role of MPO as a risk marker in obesity and related CV morbidities in young children. MPO levels associate with the dipping pattern and PWV measurements and, among overweight/obese children, an association exists between MPO and renal function.

CORRELATIONS BETWEEN THE PREVALENCE OF PHYSICAL FIGHTING AND TV WATCHING HABITS AMONG ARMEÑIAN ADOLESCENTS

Marina Melikumova, Sergey Sargsyan, Yeva Movsesyan, Ara Babloyan
Arabkir Medical Centre-Institute of Child and Adolescent Health, Armenia

Introduction: Violence among school children and adolescents is a concern in many countries of the world. Adolescents involved in physical fighting are often experience lower psychological well-being as well as engaged in other health-compromising behavior. Studies have shown that exposure to violence through TV watching may influence children’s potential involvement in interpersonal violence, including physical fighting. The survey on Health Behavior in School-aged Children (HBSC) conducted in 2009 / 2010 revealed that both rates of fighting and prevalence of TV watching among Armenian adolescents are of the highest in Europe, especially among 15-year olds.

Purpose: The purpose of the study is to examine the relationship between the frequency of watching television and engaging in physical fighting among Armenian adolescents.

Materials and methods: Data of regular Armenian HBSC survey 2013 / 2014 has been used. The sample consisted of 3679 adolescents (48% of boys, n=1759, and 52% of girls, n=1920). In addition, pilot survey among 17-year-old students of high schools and colleges has been conducted in 2014.

Results: Analysis showed that 50% of boys and 6 % of girls aged 11-15 have been involved in a physical fight 2 times and more, among them 27% of respondent boys reported being involved in 4 and more episodes of fighting. Higher prevalence has been observed among 15-year old boys. Television watching rate arises with age: among 11-year-olds 23% of boys and 21% of girls watch TV for 3 and more hours, while for 15-year old boys and girls these rates are 54% and 36% respectively. Analysis showed that about 32% of boys who watch TV for 3, 4 and 5 hours a day are engaged in 4 and more episodes of physical fighting. The same figures are found among 17-year-old boys. Television watching among girls correlates with the prevalence of fighting non-significantly.

Conclusion: Data of surveys lets to assume, that exposure to excessive TV watching and media violence increases the likelihood of physical
OP3-NU-OB-PA: Oral Presentations on Nutrition, Diet, Obesity and Physical Activity

fighting and aggressive behavior for Armenian boys. The results of HBSC survey should be considered while revising national policies and strategies on violence prevention. Health promotion activities and conflict resolving skills should be applied to reducing excessive television watching and fighting prevalence.

OP4-VA-ID-GP: Oral Presentations on Vaccines, Infectious Diseases and General Pediatrics

ID: 294 / OP4-VA-ID-GP: Presentation 1  
ORAL  
Topics: Vaccines, Neonatology  
Keywords: Malaria, Neonate, Preterm, Blood smear, peripheral blood film, Artesunate.

MALARIA IN NEONATES CASES REPORT

Jocelyne Bukeyeneza  
University Teaching Hospital of Rwanda, Rwanda

Malaria is a major problem worldwide and especially in Sub-Saharan Africa with significant health risks for infants and pregnant women 1, 2,3,13. Despite interventions policies and malaria control strategies in Rwanda 14, some cases are still seen in hyper endemic areas.

Newborns rarely become ill with malaria: they are protected by of passive maternal antibodies, high levels of fetal hemoglobin (which is resistant to P. falciparum) and the placenta barrier 1, 2. Its occurrence in neonates is unusual and though it can be acquired from the mother prenatally or perinatally following a breach in the placental barrier; from mosquito bites, or also by transfusions 1,2

Three cases of neonatal malaria were reported from the CHUB NEONATOLOGY department in a short period of time from July to September 2014:

1. Preterm infant of 31 weeks with Extremely Low Birth Weight (ELBW) of 700gr had received a long course of antibiotics for neonatal sepsis, as well as several blood transfusions due to recurrent anemia and thrombocytopenia. At 41 days of life, he developed fever and grade II splenomegaly. Blood smear for malaria was negative but peripheral blood film revealed RBCs morphology suggestive of hemolysis, likely caused by malaria.

2. Preterm twin A with estimated gestational age of 29 weeks, weighing 1.098 kg, had high risk of infection due to maternal fever 2 days prior delivery. On day eight after course of antibiotics, the infant presented with mild jaundice and respiratory distress. Blood smear for malaria was positive with 640/µl of P. falciparum parasites.

3. Term baby with history of treated maternal vaginal infection (without fever) and no other risk factor, presented on day 8 of life with fever. Blood smear for malaria was positive with 120/µl trophozoites of P. falciparum.

The treatment of choice, based on the Rwanda National Protocol, is IV Artesunate. All babies responded well to the treatment.

The above reported cases illustrate several important reminders for neonatal care in malaria-endemic regions: a) neonatal malaria infection should be included in the differential diagnosis of neonatal sepsis 4,5,6; b) A single negative blood smear does not exclude malaria 1,2; c) Transfusion centers should test blood for malaria parasites7,8,9; d) Pregnant mothers should also be tested 11,13,14; Antenatal and during pregnancy screening and prophylactic treatment should be advised 10,12. Further research is needed to better understand the transmission and the treatment for malaria in neonate.

ID: 203 / OP4-VA-ID-GP: Presentation 2  
ORAL  
Topics: Meningitis Vaccines  
Keywords: Neisseria meningitides; primary arthritis; child; serogroup C

NEISSERIA MENINGITIDIS SEROGROUP C CAUSING PRIMARY ARTHRITIS IN A CHILD – CASE REPORT

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Introduction: Neisseria meningitidis is associated with severe invasive infections such as meningitis and fulminant septicaemia. Septic arthritis due to N. meningitidis is rare and bone infections have been reported exceptionally. We report the case of a 1-year old girl who presented with a painful, swollen right knee, accompanied by fever and agitation. Arthrocentesis of the right knee, while patient was under anaesthesia, yielded grossly purulent fluid, so we made arthrothomy and drainage. The culture from synovial fluid revealed N. meningitidis, sensitive to Ceftriaxone. The patient received antibiotic therapy IV with Ceftriaxone. The status of the patient improved after surgical drainage and IV antibiotic therapy. She recovered completely after 1 month.

Conclusion: This observation illustrates an unusual presentation of invasive meningococcal infection and the early identification of the bacteria, combined with the correct treatment, prevent the complications and even death. Vaccination remains the best control strategy to prevent invasive meningococcal disease.
Was adequate to currently used guidelines, although for AOM, prescription may be excessive.

Conclusions: The results were comparable to those obtained in similar Portuguese and international studies. Generally, antibiotic prescription in all cases of asthma, acute bronchiolitis and acute nasopharyngitis.

Antibiotic use is controversial, antibiotic prescription (Po or topical) occurred in all of the AOM and all of the conjunctivitis; there was no significantly more frequent in the autumn/winter months (p=0.014) and in the school-aged group (p<0.001). For the diseases for which (uTI) (28.1%); macrolides mostly for pneumonia (94.9%) and cephalosporins mostly for uTI (56.3%). Systemic antibiotic prescription was (AOM) (36.9%), acute tonsillitis (31.8%) and pneumonia (19.7%); amoxicillin/clavulanate mostly for AOM (29.7%) and urinary tract infection (22.5%), macrolides (13.7%) and second and third generation cephalosporins (5.6%). Amoxicillin was mostly prescribed for acute otitis media (25.1%); amoxicillin was the most frequently prescribed antibiotic (55%), followed by amoxicillin/clavulanate (22.5%), macrolides (13.7%) and second and third generation cephalosporins (5.6%). Amoxicillin was mostly prescribed for acute otitis media (AOM) (36.9%), acute tonsillitis (31.8%) and pneumonia (19.7%); amoxicillin/clavulanate mostly for AOM (29.7%) and urinary tract infection (UTI) (20.1%); macrolides mostly for pneumonia (94.9%) and cephalosporins mostly for UTI (56.3%). Systemic antibiotic prescription was significantly more frequent in the autumn/winter months (p=0.014) and in the school-aged group (p<0.001). For the diseases for which antibiotic use is controversial, antibiotic prescription (PO or topical) occurred in all of the AOM and all of the conjunctivitis; there was no antibiotic prescription in all cases of asthma, acute bronchiolitis and acute nasopharyngitis.

Conclusions: The expected benefits of home management of malaria in under-fives were undermined by inappropriate treatment practices by the caregiver leading to high prevalence of severe malaria and increased mortality.

Introduction: To reduce the malaria burden in under-fives, early use of effective antimalarial drugs for home-based treatment has been recommended. The success of this interventional strategy depends largely on the appropriateness of knowledge and practices of primary caregivers of these children in the community.

Purpose: To document home-based management of children (6 – 59 months) with suspected malaria by non-medical caregivers and to identify the impact of these practices on malaria outcome.

Materials and methods: A descriptive cross-sectional study carried out from July 2012 – June 2013. Data was obtained by researcher-administered questionnaire and malaria was confirmed in each child by microscopy. Malaria outcome included morbidity (malaria severity, level of malaria parasitaemia) and mortality. Analysis was by Statistical Package for Scientific Solutions version 16.

Results: Of the 290 caregiver (31.2 ± 6.1 years) /child (21.3 ± 14.4 months) pairs recruited, 222 (76.6%) caregivers managed malaria at home before presenting to hospital. Only three (1.4%) of these caregivers practiced appropriate home-based malaria treatment. Most of the caregivers used paracetamol either solely or in combination with a monotherapy [153 (68.9%)] and only 35 (15.8%) used the recommended artesinin-based combination therapy. Nearly half of the children presented late to health facility and 112/124 (90.3%) of them received inappropriate malaria treatment at home (χ² = 22.9, OR = 4.75, p < 0.00). Prevalence of severe malaria was 111 (38.3%), of which 90.1% received home-based malaria treatment (χ² = 18.4, OR = 0.2, p < 0.00). There was no significant difference in mean (±) parasites count (2350.2 ± 1869.4 /µL) of children who received home treatment and those who did not (1878.7 ± 1566.5/µL) (t = 1.89, p = 0.06). The mortality rate in this study was 62 per 1000 and all the death received home-based treatment (p = 0.2). Predictors of severe malaria in this study was inappropriately home-based treatment of malaria (β = 1.25, OR = 3.5, p < 0.00, 95%CI = 1.67, 7.34) while that of mortality was late presentation to the health facility for prompt care (β = 2.23, OR = 9.0, p < 0.00, 95%CI = 1.94, 43.38).

Conclusion: The expected benefits of home management of malaria in under-fives were undermined by inappropriate treatment practices by the caregiver leading to high prevalence of severe malaria and increased mortality.

Introduction: Infectious diseases are an important reason for care demand in Paediatric emergency Departments (PED) and frequently motivate antibiotic prescription, many times in an inadequate way. Resistance to antibiotics is a major public health problem and antibiotic use is increasingly suggested as one of its main causes.

Purpose: The purpose of this study was to characterize antibiotics use in a Portuguese PED.

Materials and Methods: A descriptive and observational retrospective study was conducted. Data was collected from medical records of all emergency department visits (excluding trauma admissions) from one single random day in every month from September of 2014 to August of 2015. Patients that were admitted to the hospital or transferred to different hospitals were excluded from the sample. Information related to antibiotics prescription (diagnosis and antibiotic prescribed), age and gender of the patients was collected and analysed.

Results: From 1st September 2014 to 31st August 2015, 41299 patients were observed in the PED, from which 1137 medical records were analysed. The final sample was constituted of 52.8% male patients, with ages between zero and 17 years old. Systemic antibiotics were prescribed in 285 cases (25.1%): amoxicillin was the most frequently prescribed antibiotic (55%), followed by amoxicillin/clavulanate (22.5%), macrolides (13.7%) and second and third generation cephalosporins (5.6%). Amoxicillin was mostly prescribed for acute otitis media (AOM) (36.9%), acute tonsillitis (31.8%) and pneumonia (19.7%); amoxicillin/clavulanate mostly for AOM (29.7%) and urinary tract infection (UTI) (20.1%); macrolides mostly for pneumonia (94.9%) and cephalosporins mostly for UTI (56.3%). Systemic antibiotic prescription was significantly more frequent in the autumn/winter months (p<0.014) and in the school-aged group (p<0.001). For the diseases for which antibiotic use is controversial, antibiotic prescription (PO or topical) occurred in all of the AOM and all of the conjunctivitis; there was no antibiotic prescription in all cases of asthma, acute bronchiolitis and acute nasopharyngitis.

Conclusions: The results were comparable to those obtained in similar Portuguese and international studies. Generally, antibiotic prescription was adequate to currently used guidelines, although for AOM, prescription may be excessive.
OP4-VA-ID-GP: Oral Presentations on Vaccines, Infectious Diseases and General Pediatrics

ID: 127 / OP4-VA-ID-GP: Presentation 5
ORAL
Topics: Skincare
Keywords: infant, topical oils, skin barrier function

TOPICAL OILS FOR BABY DRY SKIN OR MASSAGE? NEW EVIDENCE FROM THE OBSERVE STUDY

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Introduction: The use of certain topical oils for the prevention or treatment of baby dry skin or massage may affect skin barrier function. Adverse effects may contribute to the development of childhood atopic eczema. Prevalence of atopic eczema has increased substantially since the 1940s, which could be linked to environmental factors, including increased use of oils and other baby skincare products.

Purpose: Maternity service health professionals commonly recommend topical olive oil or sunflower oil to new parents for their newborn baby’s skin. Study aims included providing proof of concept that topical oils have some effect on baby skin barrier function, and data to inform optimal trial design.

Materials and Methods: A pilot, assessor-blinded, RCT was conducted. 115 healthy, full-term babies aged <72 hours were recruited at a large hospital in North West England between September 2013 and June 2014. Babies were randomly assigned to using topical olive oil, topical sunflower oil or no oil, twice a day for 4 weeks, stratified by family history of atopic eczema. Change in spectral profile of lipid lamellae, transepidermal water loss, stratum corneum hydration, skin surface pH and clinical observations were measured on the forearm, abdomen and thigh, within 72 hours, and at 4 weeks post-birth. Mothers completed weekly questionnaires to record skincare practices and medical treatments.

Results: Recruitment rate was 11.1%, with completion of 80%. Protocol adherence was 79-93%, 83-94% and 100% for olive oil, sunflower oil and no oil groups respectively. At 4 weeks lipid lamellae in both oil groups was significantly less ordered compared to the no oil group, suggesting that both oils impede development of lipid lamellae structures of the skin barrier from birth. Both oil groups had significantly improved hydration, with no significant differences for other parameters across groups.

Conclusions: Proof of concept was achieved. Novel baseline data and information on trial parameters and processes to guide future study design were obtained. Observational and mechanistic studies are recommended to examine the link between using topical oils from birth and the development of atopic eczema, prior to conducting a definitive RCT. This pilot study was not powered to detect clinical significance, but, findings suggest caution when recommending topical oils for term newborn skin.

ID: 204 / OP4-VA-ID-GP: Presentation 6
ORAL
Topics: General Pediatrics
Keywords: gastritis, Helicobacter pylori, upper endoscopy, child

HELICOBACTER PYLORI INFECTION IN A PEDIATRIC GASTROENTEROLOGY REGIONAL CENTER IN NORTHEAST ROMANIA

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Introduction: Helicobacter pylori (H. pylori) infection is a common problem in pediatric practice. In general, the prevalence is high in developing countries and the infection is acquired at a young age.

Purpose: The aim of this study was to establish the prevalence of H. pylori infection in children and presenting the cases according to the gastritis type by performing upper digestive endoscopies.

Materials and Methods: 1269 children diagnosed with gastritis through upper endoscopy in a pediatric gastroenterology regional center in Northeast Romania were studied for establishing the H. pylori infection rate.

Results: The frequency of H. pylori in the case of acute gastritis was significantly more reduced (34.78%) than in the case of chronic gastritis (54.94%). The most frequent types of gastritis were purpuric (43.66%), nodular purpuric (25.93%) and nodular antral (15.84%).

Conclusions: The H. pylori infection is the most frequent etiologic factor for chronic gastritis (54.94%). The early identification of the infection is essential in destroying the bacteria and preventing the development of various types of gastritis that are later on identified by upper endoscopy.
EXTRAHEPATIC BILIARY ATRESIA; KOTB DISEASE IS POTENTIALLY PREVENTABLE

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Extrahepatic biliary atresia (EHBA) is the leading cause of pediatric liver transplantation. EHBA consumes resources reaching $58.5 million annually in USA. The child with EHBA suffers 1-15 (average= 3.6) episodes of cholangitis, each costs about $US 7369.02.

Recently we provided evidence that all EHBA infants had loads of aflatoxin B1 and some had B2 but none had M1 or M2 in their blood or in their post-portoenterostomy liver cores. Yet, all their mothers’ expressed M1 in their milk. As aflatoxin M1 and M2 are GST-detoxification products of aflatoxin B1 and B2 respectively, the lack of aflatoxin M1 or M2 in infants suggested failure of aflatoxin-GST detoxification. This failure of GST detoxification was not dictated by ontogeny (programmed development and expression of function according to chronological or maturational order). All studied infants with EHBA had null GSTM1 genotype, and all their mothers were heterozygous for GSTM1; thus, failure of aflatoxin-GST detoxification was “pathologic”. All EHBA infants demonstrated specific aflatoxin-induced hepatic damage i.e. centrilobular scarring, hepatic ductular proliferation, cholestasis, focal syncytial giant cell transformation of hepatocytes, and pericellular fibrosis. All demonstrated aflatoxin-lipopolysaccharide augmented raid against hepatocytes and cholangiocytes; and some had hepatic ischemia as well. The aflatoxicosis induced inflammation of extrahepatic bile ducts that ended in fibrosis and their obliteration.

In EHBA, control of aflatoxicosis damage was immune-dependent followed by initiation of regeneration. Damaged cells were removed by typical involvement of T cells; CD4+, CD8+ macrophages; CD68+, CD14+ and neutrophil degranulation product, i.e. elastase. Yet, during regeneration “fidelity” to “normal” ontogeny was lost, and regeneration in these children typically ushered “cirrhosis” due to disruption of both p53 and GSTP1 in EHBA.

Aetiology of EHBA is complex. This aetiology rings different bells, (1) our biological system is closed with actual entrapment of the “invader toxin” within the system. (2) EHBA is not only a “structural” defect but originates from a “functional” molecular defect. (3) Disease expression needs to overcome multiple “system” barriers. (4) Immune involvement is for “damage control” and not the “body damages itself”. Any damage incurred is “simply” collateral. (5) Future management would include chelation therapy, and (6) EHBA is a potentially preventable disease. Aetiology of EHBA mandates improvising novel screening and preventive strategies, yet, strict monitoring of aflatoxins in consumed foods remains the gold standard against aflatoxin consumption by pregnant women, and lactating mothers, hence reducing EHBA incidence and subsequent aflatoxin M1-associated attacks of cholangitis.

BACTERIAL AGENTS CAUSING MENINGITIS AND SEROPREVALENCE OF DIFFERENT SEROGROUPS OF NEISSERIA MENINGITIDIS, HAEMOPHILUS INFLUENZAE TYPE B AND STREPTOCOCCUS PNEUMONIAE DURING 2013–2014 IN TURKEY: A MULTICENTER PROSPECTIVE SURVEILLANCE STUDY

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Background: This will be an observational epidemiological study to describe causes of bacterial meningitis among persons under aged between 1 month - 18 years of age who are hospitalized with suspected bacterial meningitis in all of the 7 different geographical regions that are giving health service to 32 % of the population of Turkey. We present here the results from 2013 to 2014.

Methods: Single tube multiplex PCR assay was performed for the simultaneous identification of bacterial agents. The specific gene targets were ciaA, bex, and ply for N. meningitidis, Hib, and S. pneumoniae, respectively. PCR positive samples were recorded as laboratory-confirmed acute bacterial meningitis.

Results: During 2013-2014 a total of 665 children were hospitalized with a clinical diagnosis of meningitis. Of the 94 diagnosed cases of bacterial meningitis by PCR, 85 (90.4%) were meningococcal and 9 (9.6%) were pneumococcal. Hib was not detected in none of the patient. Among meningococcal meningitis, cases of serogroup Y, A, B and W-135 were 2.4% (n=2), 3.5 % (n=3), 32.9 % (n=28), and 42.4 % (n=36). No serogroup C was detected among meningococcal cases. Among meningococcal meningitis, cases in subjects ≤1 year, 1-4 years, 5-9 years, 10-14 years, and 15-18 years old were 16.5 %, 41.2 %, 22.4 %, 15.3 %, and 4.6 %, respectively. Pneumococcal meningitis cases were reported in subjects 1-4 years, 5-9 years, and 10-14 years old as 55.5 %, 41.2 %, 22.4 %, respectively. Pneumococcal meningitis cases were reported in subjects 1-4 years, 5-9 years, and 10-14 years old as 55.5 %, 33.3 %, and 12.2 %, respectively.

Conclusion: Successful vaccination policies for protection from bacterial meningitis are dependent on determination of the etiology of bacterial meningitis. These results highlight the need for broad based protection against meningococcal disease in Turkey.
Abstracts

**LOOKING FOR FACTORS THAT WOULD OPTIMIZE LEARNING AMONG ADOLESCENT LEBANESE STUDENTS**

**Marie Claude Joseph Fadous Khalife**, Youssif Feghali, Maud Ojjami, Georges Abi Fares, Michel Soufi

**Abstract**

*Background*: Increasing numbers of immigrant youth around the world mean growing numbers of heterogeneous school environments. These environments can have a huge influence on the learning potential of students in this age group. The purpose of this study is to look at the factors that would optimize learning among adolescent Lebanese students.

**Methodology**: This study involved survey data from among 51,636 adolescents (50.1% female) from 11 countries using the 2009/10 Health Behaviors of School Aged Children (HBSC-WHO) study. Individual level variables included immigrant status (non-immigrant, first and second generation immigrant), classmate support, gender, age, family affluence, physical fighting, bullying perpetration and bullying victimization. School level variables included immigrant school composition and classmate support, both aggregate variables from the individual level variables immigrant status and classmate support of all participating adolescents in the school.

**Results**: Using multilevel modeling, findings showed that higher numbers of immigrant adolescents in a school were related to higher levels of physical fighting and bullying perpetration for both immigrant and nonimmigrant adolescents and to lower levels of bullying victimization for immigrant adolescents. Findings were comparable across countries.

**Conclusion**: This study is a pilot study in the field of adolescents’ education. Adolescent’s depression, self-esteem and day sleeping are important problems that should be addressed and handled professionally in all schools hoping to optimize adolescent’s performance in school. Further studies should be conducted on a multinational level in order to assess the effect of these factors on adolescents learning in all nations.
**CHANGING FAMILY STRUCTURE, PARENTAL COMMUNICATION AND CHILDREN’S LIFE SATISFACTION IN IRELAND BETWEEN 1998 AND 2010**

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**Introduction:** Young people whose parents are either separated or divorced form an increasing portion of society. There has been a continuing shift in the composition of families in recent years, with one in six children in Ireland living in lone parent families (SONC, 2010). Previous studies have highlighted the importance of family structure to health and well-being of young people. The quality of communication with parents during adolescence has been shown to be a strong determinant of health and well-being. Life satisfaction is an indicator of well-being as well as future well-being and has been found to have a strong association with a variety of health-related outcomes.

**Purpose:** The overall aim of this paper is to examine the changes in family structure between 1998, 2002, 2006 and 2010 while examining the association between family structure, parental communication and life satisfaction among children aged 10 to 17 within the Republic of Ireland.

**Materials and Methods:** The Health Behaviour in School-aged Children (HBSC) study is a cross-national research study conducted in collaboration with the WHO Regional Office for Europe. The study has been conducted every four years in the Republic of Ireland since 1998. A nationally representative sample of school-aged children across all four survey cycles was achieved with a total sample size of 38,493. Self-completion questionnaires were used to collect the data from young people in a classroom setting under an exam-like setting. The questionnaire contained measures of life satisfaction (Cail Ladder, 1965), family structure (determined by a series of binary variables) and communication with parents. Hierarchical binary logistic regression models were conducted with ‘HBSC survey year’ as a predictor using the repeat measure contrast function which allows for comment on significant changes over time. Age, gender and social class variables were included as controls across all models. Analysis was carried out in IBM SPSS v20.0.

**Results:** Overall, there has been a significant decrease in the proportion of young people who report living with both parents (91.5% in 1998 and 78.4% in 2010). There has been a significant increase in the proportion of young people reporting high life satisfaction between 2002 and 2010. Across all regression models, family structure remains a strong predictor of life satisfaction as well as the quality of communication with parents.

**Conclusions:** The quality of communication with parents has a strong association with reported life satisfaction, regardless of family structure. This highlights the need to focus resources and education on positive parenting programmes. There are notable socioeconomic differences in reported life satisfaction that require further investigation.

**DOES FAMILY STRUCTURE MATTER? REFLECTIONS FROM POLISH STUDIES ON SOCIAL DETERMINANTS OF ADOLESCENT HEALTH**

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Institute of Mother and Child, Poland

**Introduction:** In the previous Polish HBSC (Health Behaviour in School-aged Children) reports we presented health outcomes by age, gender, place of living and family affluence. In HBSC 2014 national report for the first time we introduced family structure as essential sociodemographic characteristics.

**Purpose:** The aim of the paper is to compare children living in two-parent versus single-parent and stepparent families as well as those left behind by one or both parents who have undertaken job migration.

**Material and Methods:** The survey conducted in the 2013-14 school year comprised 4,545 students in three groups; the average age 11.6; 13.8 and 15.6 years, respectively. The student response rate was estimated to 86.1%. Overall, 15 positive and 22 negative outcomes belonging to three groups were presented: subjective health, health-related behaviours and the social context of growing up (family, school, peers). To define family structure children were asked about the people living in their main home. Multivariate logistic regression was applied with age, gender, place of living (big cities, small towns, rural areas), family affluence and family structure as independent variables. Results were presented as odds ratios (OR) with 95% confidence interval (CI).

**Results:** According to HBSC 2014 data, 76.8% of schoolchildren live with both biological parents, 14.0% with one parent, 6.1% in stepfamilies and 3.1% in another type of family. Comparing to HBSC 2010 data, the percent of intact families decreased by 2%. In the univariate analysis, the significant association with family structure was confirmed in case of 29/37 indicators. Children from non-intact families are especially at lower chance of very good school performance (OR=0.697; CI: 0.60-0.82) and high life satisfaction (OR=0.689; CI:0.57-0.83). They are also at significantly higher risk of recurrent subjective health complaints (OR=1.502; CI=1.28-1.76); weekly smoking (OR=2.152; CI:1.68-2.76) and repeated episodes of drunkenness in the life time (OR=1.874; CI: 1.49-2.35). A lot of differences between single-parent and stepparent families were also indicated. The impact of family structure is often much stronger than the impact of family affluence.
OP5-SC-VIO-FL: Oral Presentations on School, Violence, Injury and Family Life

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Single-parent family</th>
<th>Step-parent family</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OR*</td>
<td>CI</td>
</tr>
<tr>
<td>Very good school performance</td>
<td>0.706</td>
<td>0.59-0.85</td>
</tr>
<tr>
<td>High life satisfaction</td>
<td>0.706</td>
<td>0.57-0.87</td>
</tr>
<tr>
<td>Recurrent subjective complaints</td>
<td>1.478</td>
<td>1.23-1.77</td>
</tr>
<tr>
<td>Weekly smoking</td>
<td>2.239</td>
<td>1.69-2.96</td>
</tr>
<tr>
<td>Repeated drunkenness in the lifetime</td>
<td>1.809</td>
<td>1.39-2.35</td>
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</table>

* Two biological parents as reference category

**Conclusions**: The study confirmed that children not living with both biological parents report worse subjective health and are more susceptible for negative problem behaviours in comparison to peers from intact families. There is a need to pay particular attention to children raised in non-intact families, out of concern for their health and development. This is even more important to support such families considering that the percentage of intact families is still decreasing. In the further studies the interaction with school-related factors will be considered under just started associated project funded by National Science Centre (Grant No. 2013/09/B/HS6/03438). The information on family structure is also recommended to trend analyses.

**ID**: 259 / OP5-SC-VIO-FL: Presentation 4

**ORAL**
Topics: Family Life and Health
Keywords: Abuse, health-harming behaviours, psychosomatic complains

**CHILDHOOD MALTREATMENT IN FAMILY AND ASSOCIATIONS WITH HEALTH-HARMING BEHAVIOUR AND PSYCHOSOMATIC COMPLAINTS: RESULTS FROM HBSC ROMANIAN STUDY**

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**Introduction**: The exposure to abuse and maltreatment during childhood and adolescence represents an important problem due to its long lasting effects on victims' development and health. Abuse can have many facets: emotional, physical or sexual. Several studies indicate that children exposed to one or more types of abuse or maltreatment have higher probability of presenting somatic and mental health problems.

**Purpose**: This study aims to investigate the co-occurrence of exposure to several forms of abuse (psychological, physical and sexual) with involvement in health-harming behaviors (smoking, alcohol and cannabis use, bullying and physical fighting, early sexual debut) and with the presence of psychosomatic complaints.

**Materials and Methods**: Using a representative data for the Romanian school children population (N=1442, age m=15.1, SD=0.3), the present study is based on the HBSC/WHO Collaborative Study Survey (Health Behaviour in School Aged Children). Children were asked the frequency with which they have experienced psychological, physical and sexual abuse; involvement in the above mentioned risk behaviours, and somatic and mental health symptoms. Odds ratio were computed in order to estimate the association between health-harming behaviors, psycho-somatic symptoms and abuse variables.

**Results**: Our results indicate that the prevalence of exposure to childhood maltreatment ranges from 7% for sexual abuse, 17% for physical abuse to 25% for psychological abuse. No significant gender differences emerged. All the association were found to be statistically significant (p<0.01), showing that psychological, physical and sexual abuse increase the probability of risk behavior, and of the frequency of psychosomatic symptoms.

**Conclusions**: Considering the high short and long burden of childhood maltreatment on their health and development, several recommendations for intervention and policy makers are presented.

**ID**: 167 / OP5-SC-VIO-FL: Presentation 5

**ORAL**
Topics: Life Satisfaction
Keywords: adolescents, life satisfaction, parental employment, self-reported health;

**PARENTAL EMPLOYMENT STATUS AND ADOLESCENTS’ WELL-BEING: FINDINGS FROM THE HEALTH BEHAVIOUR IN SCHOOL-AGED CHILDREN (HBSC) PORTUGUESE SURVEY**

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**Introduction**: The negative effect of job loss on subjective well-being has been demonstrated in many studies of adult populations. In Portugal, the economic recession has increased the unemployment rate and many families are now jobless. There are strong reasons to believe that unemployment in the family influences both the parents’ well-being and their children’s.

**Purpose**: The purpose of this study was to examine the associations between parental employment status and adolescents’ self-reported health and life-satisfaction.

**Materials and Methods**: The analyses were based on data from the Portuguese Health Behaviour in School-aged Children survey (HBSC/WHO). The study included a representative sample of 4734 Portuguese students aged 10-19 year-old (52.3% girls). Logistic regression analyses were
OP6-GP-MH: Oral Presentations on General Pediatrics and Child Mental Health

ID: 139 / OP6-GP-MH: Presentation 1
ORAL
Topics: Medicine use, General Pediatrics, Neonatology
Keywords: respiratory syncytial virus, caffeine citrate, apnea, bronchiolitis

CAFFEINE FOR THE TREATMENT OF APNEA IN BRONCHIOLITIS: A RANDOMIZED TRIAL

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Introduction: Caffeine is commonly used in the treatment of apnea in bronchiolitis but all published studies are observational.

Purpose: To evaluate the efficacy and safety of caffeine citrate in the treatment of apnea in bronchiolitis.

OP5-SC-VIO-FL: Oral Presentations on School, Violence, Injury and Family Life

conducted (95% confidence intervals, p < 0.05) to test the associations between parental employment status and low self-reported health and low life satisfaction. Parental employment status was coded as follows: both parents employed, both parents jobless, jobless father and jobless mother.

Results: The regression analyses showed that after adjusting for socioeconomic status and age, low self-rated health was associated with the father being jobless. Among boys, however, the odds ratios (ORs) were not statistically significant. Girls with jobless fathers were 1.62 times more likely to report low self-rated health than girls whose parents are both employed. Low life satisfaction was associated with having both parents jobless. Among boys with both parents jobless, odds ratios (ORs) for low satisfaction with life were 1.84 (1.13-2.99). Among girls, the corresponding ORs were 1.79 (1.11-2.87). Associations between mother’s joblessness and low self-rated health or low life satisfaction were not found.

Conclusions: This study shows that parental employment status affects adolescent’s self-reported health and life satisfaction. Girls with jobless fathers are of higher odds of low self-rated health than girls with both parents employed. Boys and girls with both parents jobless are more likely to report low life satisfaction than those with both parents employed. Unemployment in the family may bring costs on future generations as youth in these families report worse well-being outcomes.

ID: 104 / OP5-SC-VIO-FL: Presentation 6
ORAL
Topics: Violence and Injury (including: bullying), School, Addictive Behaviours (including: Alcohol, Tobacco and Cannabis use), Mental Health
Keywords: Asphyxia, Risk-Taking, Child, Adolescent, Self-Injurious Behaviour

PREVALENCE AND ASSOCIATED HARM OF ENGAGEMENT IN SELF-ASPHYXIAL BEHAVIOURS (“CHOKING GAME”) IN YOUNG PEOPLE: A SYSTEMATIC REVIEW

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1University of Bristol, United Kingdom; 2Speciality Registrar in Public Health

Introduction: Adolescence is a period of increased susceptibility for engaging in risk behaviours which potentially carry high personal and societal costs. A less well researched risk behaviour in young people is self-asphyxial risk-taking behaviour (SAB), also known as the “Choking game”. Individuals engage in SAB for the pleasure and thrill perceived from obtaining an altered state of consciousness which can lead to various health outcomes including death. Although pressure groups’ reports of close to 1000 fatal cases worldwide, potential risks are often not perceived. Despite SAB being around for decades, there is limited and little consistent evidence about the prevalence, associated risk factors and levels of morbidity and mortality associated with engagement in SAB.

Purpose: To assess the prevalence of engagement in self-asphyxial (risk-taking) behaviour (SAB) (“Choking game”) and associated morbidity and mortality in children and young people up to age 20 to shed light on whether SAB should be a public health concern in the UK.

Materials and Methods: A systematic literature review was undertaken. Neither date nor language restrictions were applied. The following eight databases were searched: MEDLINE, EMBASE, PsycINFO, CINAHL, PUBMED, Web of Science Core collection, BIOSIS citation index and the Cochrane register. References of key papers were reviewed and experts were contacted to identify additional relevant papers. Studies had to be systematic reviews or had to provide original data on SAB with regard to individuals aged 0-20 years without explicitly stated autoerotic, suicidal or self-harm intentions. The quality of all included studies was assessed by two reviewers.

Results: Thirty-six relevant studies were identified and fatal cases due to SAB were reported in 10 countries. In North America, France and Colombia, awareness of SAB ranged from 36% to 91% across studies/settings and the median lifetime prevalence of engagement in SAB was 7.4%. Six studies identified the potential for SAB to be associated with engagement in other risk behaviours. Ninety-nine fatal cases were reported. Of the 24 cases described in detail, most occurred when individuals engaged in SAB on their own and used ligatures to engage in the practice.

Conclusions: The current evidence on SAB among young people is limited and stems predominantly from North America and France. Awareness of SAB among young people is high and engagement varies by setting. Further research is needed to understand the level of risk and harm associated with SAB and to determine the appropriate public health response.
Methods: Consecutive infants < 4 months of age presenting to the main pediatric emergency service with apnea associated bronchiolitis were stratified by gestational age (<34 weeks or longer) and randomized to receive 25 mg/kg caffeine citrate or saline placebo. The primary efficacy outcome was time until resolution of apnea symptoms for both groups. Secondary outcomes were frequency and duration of apnea by 24, 48 and 72 hours after study medication, need for noninvasive/invasive ventilation, and length of stay in hospital's PICU/Step-down unit.

Results: 90 infants diagnosed with viral bronchiolitis associated with apnea, median age 38 days, were enrolled. Over 60% had apnea observed both at home and before treatment in the emergency department. Respiratory virus positivity was similar in each group (mean, 81%). Time until resolution of apnea was similar in both groups, geometric mean duration until resolution of apnea was 57.9 hours (95% CI, 25.7 to 55.8 hours) and 42.2 hours (95% CI, 29.8 to 59.8 hours) for caffeine and placebo respectively. p=0.08. Frequency and duration of apnea by 24, 48 and 72 hours after enrollment and need for noninvasive and invasive ventilation were similar for both groups. Length of stay in PICU/step down was shorter for the placebo group.

Conclusions: A single dose of caffeine citrate is not effective in the treatment of apnea associated with bronchiolitis.

ID: 166 / OP6-GP-MH: Presentation 2
ORAL
Topics: General Pediatrics
Keywords: adolescents, emergencies, morbidity, mortality, Nigeria

ADOLESCENT MEDICAL EMERGENCIES: BASELINE SURVEY IN A NIGERIAN TERTIARY HOSPITAL.

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1NNAMDI AZIKIWE UNIVERSITY TEACHING HOSPITAL, NNEWI, NIGERIA; 2NNAMDI AZIKIWE UNIVERSITY, AWKA, NNEWI CAMPUS, NIGERIA

Introduction: There is dearth of data on adolescent medical emergencies in Africa, despite the fact that most adolescent deaths occur in the African subregion. Region specific epidemiological studies are thus essential, extending focus to such a neglected area.

Purpose: To describe the morbidity pattern of adolescents admitted as medical emergencies in a Nigerian tertiary hospital, and identify factors correlated with mortality outcome amongst them.

Materials and Methods: This was a prospective study of all adolescents aged 10 to 19 years consecutively admitted into the Children's Medical Emergency Ward of a Nigerian tertiary hospital from April 2012 to March 2014. Their biodata, clinical condition at time of presentation and outcome monitored every 24 hours till exit from the emergency ward were documented. Bivariate analysis for correlation of the demographic and clinical factors with mortality was done utilizing the Statistical Package for Social Sciences version 20. Diseases were classified according to the International Classification of Diseases (ICD 9) guidelines.

Results: Two hundred and two adolescents were admitted, being 9.6% of total admissions, with a male to female ratio of 1.5:1. Their mean age was 13.3 ±2.3 years with 53.5%, 36.1% and 10.4% of them in their early, mid and late adolescence, respectively. The major presenting symptom was fever in 47.5% of them, the predominant disease category being infectious and parasitic diseases in 31.2%. However, sickle cell disease crisis was the commonest disease entity occurring in 15% of the patients. The mortality rate was 6.4%; with 85% caused by acute exacerbations of chronic diseases. Chronic kidney disease (CKD) was the major cause of death (39% of the mortalities) with case fatality of 36%. (OR 8.4 CI 3.2-22.3; Correlation significant at 0.01 level). Respiratory distress at presentation was the only symptom significantly correlated with mortality. (OR 6.1 CI 2.1-17)

Conclusion: Acute exacerbations of chronic medical conditions account for poor outcome of medical emergencies in Nigerian adolescents, with highest case fatality from CKD in the index centre. This suggests the need for intensification of preventive Medicare and adoption of the principle of pro active follow up of adolescents living with chronic diseases.

ID: 282 / OP6-GP-MH: Presentation 3
ORAL
Topics: General Pediatrics, Neonatology
Keywords: Bacteremia, Neonatal fever, Rochester criteria, Sepsis work-up, Serious bacterial infection

GENDER DIFFERENCE IN THE EVALUATION OF FEBRILE INFANTS AGED ≤ 60 DAYS USING THE HIGH OR LOW RISK CRITERIA

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1Pediatrics C, Schneider children’s medical center, Israel; 2Pediatrics A, Schneider children’s medical center, Israel; 3Unit of Emergency Medicine, Schneider Children’s Medical Center; 4Sackler Faculty of Medicine, Tel Aviv University

Introduction: While the reliability of low or high-risk criteria in the evaluation of febrile infants aged ≤60 days has been well documented, there is no data on the performance of these criteria in males compared to females.

Purpose: To evaluate gender differences in the reliability of low or high-risk criteria to exclude serious bacterial infection (SBI) in febrile infants.

Materials and Methods: The study group was divided by low or high risk status for SBI and the data were stratified by gender. Low risk was defined as an unremarkable medical history, well-appearing, normal white blood cell count, urinalysis and no mucous or bloody diarrhea. SBI was defined as urinary tract infection, bacteremia, meningitis or bacterial enteritis.

Results: Of the 1896 enrolled infants, SBIs were found in 10.6% of males compared to 8% females (p=0.21). The sensitivity of the risk criteria for males compared to females was 91.5% and 73.4% (p=0.05), the positive predictive value (PPV) was 20.8% and 15.7% (p=0.001). In a multivariable analysis male high risk patients were over twofold more likely to develop a bacterial infection, adjusted for all other variables.
Comparison of the performance of the Rochester criteria between febrile males and females

<table>
<thead>
<tr>
<th></th>
<th>All infants</th>
<th>Males</th>
<th>Females</th>
<th>P</th>
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<tbody>
<tr>
<td><strong>Sensitivity</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>87.2%</td>
<td>91.5%</td>
<td>73.4%</td>
<td>&lt;0.05</td>
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<tr>
<td>95% CI:</td>
<td>81.6-91.3%</td>
<td>85-95.3%</td>
<td>67.8-87.5%</td>
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<tr>
<td><strong>Specificity</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>64.4%</td>
<td>65.4%</td>
<td>63%</td>
<td>NS</td>
</tr>
<tr>
<td>95% CI:</td>
<td>62.1-66.6%</td>
<td>62.4-68.3%</td>
<td>59.4-66.4%</td>
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<tr>
<td><strong>PPV</strong></td>
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<td></td>
<td>20.4%</td>
<td>23.8%</td>
<td>15.7%</td>
<td>&lt;0.001</td>
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<tr>
<td>95% CI:</td>
<td>19.1-21.9%</td>
<td>22-25.7%</td>
<td>13.7-17.9%</td>
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<td><strong>NPV</strong></td>
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<td></td>
<td>98.0%</td>
<td>98.5%</td>
<td>97.2%</td>
<td>NS</td>
</tr>
<tr>
<td>95% CI:</td>
<td>97.2-98.8%</td>
<td>97.4-99.2%</td>
<td>95.6-99.3%</td>
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</tr>
</tbody>
</table>

*Fleiss-Levin-Paik method; CO, confidence interval, PPV, positive predictive value; NPV, negative predictive value

**Conclusions**: The risk criteria had a significantly higher sensitivity and PPV in males compared to females. Our findings should alert clinicians to a higher index of suspicion when evaluating male high-risk infants.

**OP6-GP-MH: Oral Presentations on General Pediatrics and Child Mental Health**

**Clinicopathological Study of Enteric Fever: A Prospective Hospital Based 18 Month Analysis of 54 Paediatric Cases in a Tertiary Care Teaching Hospital**

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**Introduction**: Childhood Enteric Fever still a common health problem in many developing countries & its diagnosis on clinical ground is also difficult WHO estimates about 21 million cases of enteric fever with >600,000 deaths annual. The cases are more likely to be seen in India, Bangladesh, South America & Africa, the regions with rapid population growth, limited safe water, infrastructure & health system. With this above background, Enteric Fever is endemic in Bangladesh, thus this prospective analysis was undertaken.

**Purpose**: To evaluate clinical features, investigation sensitivity, response to therapy, incidence of antimicrobial resistance and outcome of childhood enteric fever.

**Materials and Methods**: Hospital based prospective study. Patient and setting: Inpatient of Paediatric ward of BGCT Medical college, a 650 bedded tertiary teaching hospital located in Chittagong, Bangladesh. Study period: Jan/13 to June/14. Inclusion criteria: a) Admitted children of >12 months up to 15 years b) Documented fever >38 degree centigrade. c) History of fever <2 weeks. Exclusion criteria: Not met all inclusion criteria. Associated second illness.

**Results**: Among the 324 cases of suspected enteric fever, 54 (1 in 6) cases were diagnosed as confirmed Enteric Fever, out of them 34 (63%) were male and 20 (37%) female. Majority cases >5 years age group (39%). Leading clinical features were fever (96%), coated tongue (78%), G.I. symptoms (74%), hepatomegaly (50%), splenomegaly (46%). Lab reports revealed leukocytosis 45%, leucopenia 39%. Widal test, blood culture, RDT (SD-CTK) were positive in 59%, 41%, 30% respectively, bone marrow culture was done in 6 cases of which 4 (68%) culture positive. Regarding treatment 30 cases (56%) treated with ceftriaxone and 16 cases (30%) with ciprofloxacin, 5 (9%) with Azithromycin. Best response was observed with ceftriaxone and Azithromycin (100%). Resistance observed in 35% with Ciprofloxacin and 100% with Cefuroxime & Cotrimoxazole. MDR cases found in 2 patients (4%). Amicacin was highly sensitive in MDR cases (100%) out of 54 cases expires (9%) mortality was high in <2 years age group.

**Conclusions**: Proportion of febrile children suffering from enteric fever was 1 in 6, it important to include enteric fever in D/D of febrile patient with GI symptoms, though blood culture is the definitive test widal test and RDT, plays supportive role in the diagnosis of enteric fever. Based on analysis now Ciprofloxacin not a good drug for enteric fever. Ceftriaxone and Azithromycin considered as first line treatment. MDR enteric fever causes high mortality (100%) & Amikacin 100% sensitive in MDR.

**Fever in Infants Under 3 Months: Is Our Approach Consistent?**

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**Introduction**: Young babies are vulnerable to infection. Sepsis in infants under 3 months can present in a very non-specific manner, so any pyrexia over 38°C should lead to a thorough assessment. Despite national guidance from NICE (“Feverish illness in children”) there is often wide variation in clinical practice regarding both investigations performed and treatments given.

**Purpose**: To investigate the approach to febrile infants under 3 months old presenting to the Emergency Department, including assessing the yield of all investigations done and the range of treatments given.

**Materials and Methods**: All infants under 3 months old with a temperature over 38°C documented in hospital were identified. A combination of the medical notes, discharge letter and pathology records were used to collect demographic information and details of all investigations performed and treatments given.
**Results:** 123 infants had a documented temperature over 38°C in hospital during the 12 month period, with a mean age of 6 weeks. All were admitted. Investigations were performed with differing frequencies (blood cultures in 92%, urine culture in 74% and CSF microscopy and culture in 67%) and yielded positive results in 11, 74 and 16% respectively. Over half the infants needed nasogastric feeds or intravenous fluids with 27% receiving a fluid bolus on initial assessment in the ED. Overall 12 different antibiotic regimes were used and 10% received no antibiotics. Nearly all (99%) of those treated with antibiotics received at least 48 hours via the intravenous route.

**Conclusions:** There is wide variation in both investigations and treatment of febrile illnesses in young infants. Despite a clear national guideline only 26% received amoxicillin as advised. Individualised care plans should not compromise clinical care and risk causing confusion to both parents and healthcare professionals.

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**DIFFERENTIAL ITEM FUNCTIONING IN TREND ANALYSES OF ADOLESCENT MENTAL HEALTH – ILLUSTRATIVE EXAMPLES USING HBSC-DATA FROM FINLAND**

Curt Hagquist¹, Raili Välimaa², Sakari Suominen³, Nina Simonsen⁴

¹Karlstad University, Sweden; ²University of Jyväskylä, Finland; ³University of Turku, Finland, University of Skövde, Sweden; ⁴Folkhälsan Research Center, University of Helsinki, Finland

**Introduction:** Although there is an increasing focus on trend analyses of adolescent mental health, yet little attention is paid to the methodological challenges and pitfalls inherent in this type of analyses.

**Purpose:** The purpose of the study is to analyse the psychometric properties of the HBSC-instrument on psychosomatic problems used in Finland, with a major focus on Differential Item Functioning (DIF) across time.

**Materials and Methods:** Data collected in 1994, 1998, 2006 and 2014 among Finnish schoolchildren in grade 9 are used, comprising a total of 8481 students. Data were collected with questionnaires which were completed anonymously in school classrooms. Participation was voluntary. The questionnaire contained nine items with five response categories on psychosomatic problems: headache, stomach ache, backache, feeling depressed, irritability or bad tempered, feeling nervous, difficulties in getting to sleep, feeling dizzy and feeling low. The response categories are ordered in terms of implied frequency and the higher the psychosomatic problems. The responses to these items were summed to a composite measure. The items were analysed using the polytomous Rasch model. Two-way analysis of variance of standardised residuals was used to examine DIF.

**Results:** The results clearly indicate that the scale on psychosomatic problems does not work invariantly over time. In particular the item Depressed shows DIF across years of investigations. This item works quite different at the first year of investigation compared to the last year showing higher expected values 2014 (=less frequent problems) than 1994. This pattern holds for all subgroups but is most pronounced for students in Finnish speaking schools, in particular girls. This DIF does affect the measure of change between 1994 and 2014. Resolving item Depressed for year of investigation DIF changes (increases) the difference in person mean values between the two years.

**Conclusions:** Since the DIF affects the trend results, different options to address the problems need to be considered. Evidence that the perceived meaning of the item Depressed has changed over the years may justify a removal of this item. Removing the item Depressed from the scale but retaining the item Feeling low would also bring the Finnish data in better accordance with the content of the questions on psychosomatic problems in the international HBSC protocol.

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**CO-MORBIDITY AND RISK FACTORS OF ADHD AMONG SCHOOL AGED CHILDREN IN CAIRO, EGYPT**

Maisa Farid¹, Sahar Sabour², Mona Othman³

¹Egyptian Academy of Childhood Disability, Institute of Postgraduate Childhood studies, Ain Shams University, Egypt; ²Faculty of Medicine, Ain Shams University; ³Institute of Postgraduate Studies, Ain Shams University; maisa_farid@yahoo.com

**Introduction:** Attention deficit hyperactivity disorder (ADHD) is the most common neurodevelopmental disorder which interferes with social and educational development. Purpose: to determine comorbid disorders and risk factors of ADHD in school aged children.

**Material and Methods:** A cross sectional study was done in two primary schools 3174 in number aged 4 - 12 years old in Heliopolis, Cairo, Egypt. Teachers screened children for ADHD by the DuPaul ADHD rating scale followed by diagnosis ADHD using DSM V for children who screened positive. All (251) ADHD children and 363 healthy control children were enrolled in the study.

**Results:** 251 (7.9%) of children had ADHD from both schools, 3 times more in boys than girls (11.2%, 3.7%). Hyperactivity and combined types of ADHD were significantly higher among boys p<0.05, while inattention was significantly higher among girls p<0.05. Comorbid disorders present were Oppositional Defiant Disorder 34.7%, conduct disorder 16.3%, anxiety 15.1%, nocturnal enuresis 30.3% and learning difficulties 45.8%. ADHD children had positive family history of ADHD than controls (14.9%, 5% OR 3.34), were living apart from parents (12.9%, 5%), had working mothers (52.1%, 35% OR 2.02), their parents of low educational levels (28%, 18.2%), consume soda drinks or canned juices daily (50.3%, 38.9% OR 1.59), eat chocolate daily (47.7%, 36.9%), and suffered visual disturbances (15.5%, 7.9%) p<0.05. Computer games were more used by controls than cases (82.9%, 66.7%) p<0.05. Maternal age, birth order, pregnancy or labour hazards, TV watching, consumption of packed snacks, sweets were not risk factors.

**Conclusions:** Comorbid disorders are prevalent with ADHD. Family history is the most important risk factor followed living apart from both parents, having working mothers and having low educational levels of their parents.
ID: 243 / POST1: Presentation 1
POSTER
Topics: Violence and Injury (including: bullying), Addictive Behaviours (including: Alcohol, Tobacco and Cannabis use)
Keywords: adolescence, antisocial behavior, emotion regulation, health, disobedience to authority.

ADOLESCENT ANTISOCIAL BEHAVIOR IN SPAIN: RELATIONSHIP WITH EMOTION REGULATION AND HEALTH.
Ana Villafuerte-Díaz1, Pilar Ramos1, Concepción Moreno-Maldonado1, Immaculada Sánchez-Queija2, Antony Morgan2, Irene García-Moya1
1University of Seville, Spain; 2University of Huelva, Spain

Introduction: Antisocial behavior is a problem that generates social concern in our society. It is understood that antisocial behaviors are actions that violate the social norms. As a rule, antisocial behaviors are more prevalent in adolescence in comparison with other moments in the life-course due to during adolescence there isn’t enough connections between the prefrontal cortex and the limbic system. This anatomical change is important too for emotion regulation, that isn’t fully mature until late adolescence or adulthood.

Purpose: Given the importance of emotional regulation in adolescence and its strong relationship with antisocial behavior, this study aims to investigate the relationship between antisocial behavior, emotion regulation and adolescent health in Spain.

Materials and Methods: The data pertains to the Spanish Health Behavior in School-aged Children (HBSC) study enacted in 2014. Our sample includes 4062 students between the 15 and 16.

Results: The analyses show many significant results. In particular we find negative correlations between antisocial behavior and emotion regulation, mainly between high prevalence antisocial behavior or less serious antisocial acts and emotion regulation (r = -.275, p < .01). Also, the analysis show that there is a negative correlation between disobedience to authority antisocial behavior and the global health score (r = -.217, p < .01). Finally, we investigated the gender differences in antisocial behavior, and the results show that boys are more involved in this type of behavior.

Conclusions: The data show that there are significant relationships between antisocial behavior, emotion regulation and global health, and reveal the importance of preventing antisocial behavior in this developmental stage.

ID: 236 / POST1: Presentation 2
POSTER
Topics: Family Life and Health
Keywords: resilience, quality of parent-child relationships, positive health, adversity, adolescence

IDENTIFYING AND CHARACTERISING RESILIENCE IN SPANISH ADOLESCENTS
Carmen Moreno1, Irene Garcia-Moya1, Francisco Rivera2, Immaculada Sánchez-Queija1, Antonia Jiménez-Iglesias1, Pilar Ramos1
1University of Seville, Spain; 2University of Huelva, Spain

Introduction: Collecting scientific evidence on the factors involved in mitigating risk and promoting successful adaptation in adolescence is one important priority in current international agendas on health and well-being, which makes resilience studies fundamental. Resilience is broadly defined as good adaptation in the context of adversity but adversity in adolescence has been defined in a wide variety of ways. Nevertheless, family functioning is considered to be a key element in the human adaptation system and consequently it tends to be part of the definition of adversity in resilience studies.

Purpose: The aim of this study was to identify and characterise the group of resilient adolescents in a representative sample of Spanish school-aged children. In order to define resilience, we used a combination of the quality of parent-child relationships and adolescents’ global health level. More specifically, comparisons were made between resilient adolescents (low-quality parent-child relationships and good global health) and maladaptive adolescents (low-quality parent-child relationships and low global health). The predictive power of a wide range of variables, namely demographic factors, school context, peer relationships, lifestyles and psychological and socioeconomic aspects, were analyzed.

Materials and Methods: The 2014 HBSC (Health Behaviour in School-aged Children) study questionnaire was administered to a representative sample of adolescents aged 13 to 16 living in Spain and studying secondary education. For the purpose of the present study, 898 adolescents (172 classified as resilient and 726 as maladaptive) were selected and further studied. Statistical analysis included bivariate analyses (Chi-square and Student t) and binary logistic regression analyses using adolescent status (resilient vs maladaptive) as the dependent variable and the aforementioned demographic, contextual and individual variables as predictors.

Results: In the global logistic regression model, perceived school performance, teacher support, satisfaction with peer relationships, breakfast frequency, moderate-to-vigorous physical activity, sense of coherence, curiosity, satisfaction with body image and perceived family wealth made a significant contribution to the prediction of adolescents’ status. The obtained model showed a high predictive power (it explained 51.8% of the variability) and was able to correctly classify a high percentage of adolescents (51.5% of resilient and 89.3% of maladaptive adolescents).

Conclusions: This work provides valuable information on the resilience phenomenon and shows empirical evidence of resilience studies’ utility for the design of interventions in adversity contexts and its evaluation.
Consequences of early adversity on physical development: Menarche in adolescents adopted. HBSC-Spain results

Carmen Paniagua¹, Carmen Moreno¹, Maite Román¹, Concepción Moreno-Maldonado¹, Rivera Francisco², Jesús Palacios¹
¹University of Seville, Spain; ²University of Huelva, Spain

Introduction: Early adversity has an impact on child development. Physical development is one of the most affected areas. Beyond studies focused on the children’s physical condition at the beginning of adoption, research about the evolution after childhood are increasing. However, there are still few studies that analyze development in adolescence. Many studies have shown the resilience of the physical development in adopted children. Nevertheless some research, mostly with small samples, have warned about the advance of menarche that occurs in many adopted girls.

Purpose: The aim of this study is to analyze when menarche appears in a representative sample of adolescents adopted compared with non-adopted. This is discussed with related variables: 1) birth country for international adoption; 2) the age at which they were adopted.

Materials and Methods: The data pertains to the Spanish HBSC study enacted in 2014. Specifically, it deals with 15,252 adolescent girls enrolled in school between the ages of 11 and 18. Of this sample, 209 are adopted. 62.2% of them are from international adoption, China (50.04%) and Russia (14.5%) being the most common birth countries.

Results: The results confirm the existence of statistically significant differences between the age of menarche in adopted girls compared to non-adopted, being earlier in the first group. Especially the age group who answered the questionnaire at 13-14 years old, where the differences reach a Cohen’s d of 0.698. These differences have also been analyzed according the birth country and the age at which they were adopted.

Conclusions: The data show clearly how the development trajectory marked by the early adversity and the subsequent change of context that involves the adoption affects the age at which menarche occurs in many girls. The results will be discussed in line with variables related to this advance.

Parental accuracy of reporting diagnoses of developmental disabilities

Kalyani Vilaykumar Mulay, Evelyn Law
Khoo Teck Puat – National University Children’s Medical Institute, National University Health System, Singapore

Introduction: Parents are reliable sources of information on their child’s developmental status. However, information is not available on how accurate parents are in reporting developmental disabilities in different domains.

Purpose: Our aim was to investigate the accuracy of parental reporting of their child’s developmental disability in a tertiary developmental paediatric unit.

Materials and Methods: Consecutive children aged 2 to 16 years of age were recruited from a tertiary developmental paediatric clinic from Dec 2014 to Apr 2015. Parents of 93% of these children consented and completed the study. Of the 265 children, 159 returned for follow-up visits, had a multidisciplinary team (MDT) assessment, and were diagnosed with a developmental disability. Caregivers were asked to complete demographic data and select the developmental diagnosis that they understood their child had from a comprehensive list based on the Diagnostic and Statistical Manual of Mental Disorders (DSM-5). This was compared with results from the child’s MDT assessments. Descriptive statistics were completed. In addition, t-tests and chi-square tests were conducted to compare child and parent characteristics between parents who were accurate in reporting the diagnoses and those who were not accurate.

Results: Descriptive statistics showed that 21.4% (28/131) of parents were inaccurate in reporting developmental disability diagnosis of their child. We found that the most inaccurately reported disability diagnosis was that of intellectual disability (42.8%), followed by specific language impairment (27.8%), learning disability (17.4%), ASD (15.9%) and ADHD (10%). T-tests showed that the age of diagnosis (68.5 months vs 77.4 months, p=0.287) and current age of the child (100.2 months vs 101.9 months, p=0.837) were not different between the 2 groups. Chi-square tests showed that parents who have financial difficulty in paying for housing and food were significantly more accurate in reporting developmental diagnosis than those who did not have such difficulty (100.0% vs 80.6%, p=0.022). All other demographic factors, including education level of parents, primary language of the caregiver, number of children in the family, gender, and ethnic background of the child, were not significant in determining parent accuracy.

Conclusions: Parents’ understanding of their child’s disability diagnosis in the cognitive and language domains was limited. It is likely that parents with financial difficulties are more accepting of developmental diagnoses in order to access financial resources. We recommend that the parents of children with developmental disabilities are educated with regards to the child’s disability diagnosis particularly in cognitive and language domain.
DO FOREIGN DOMESTIC WORKERS DECREASE STRESS IN PARENTS CARING FOR CHILDREN WITH DEVELOPMENTAL DISABILITIES?

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Introduction: Parents of children with disabilities report higher levels of stress. High parental stress has a negative influence on the child’s socio-emotional and behavioural development. There is a correlation between availability of parental social and/or family support and lower parental stress levels. To date, there are no studies that have explored the effect of foreign domestic workers (FDWs) on reducing parental stress in children with developmental disabilities.

Purpose: To examine whether the presence of foreign domestic workers (FDW) and the quality of these workers are associated with parental stress.

Materials and Methods: Parents of consecutive children aged 2-12 with developmental disabilities from our developmental clinics were recruited from December 2014 to April 2015. Of those recruited, 93% of parents gave consent and completed the Parenting Stress Index, Short Form (PSI) as well as questionnaire on demographics and FDW. Information on FDW included the number of hours each FDW spent per day with the child and the rating of the FDW using a Likert scale from 1 (poor) to 5 (excellent). The main outcome of the study was the PSI Total Parental Stress. We utilised linear regression to examine whether the presence of a highly rated FDW was associated with decreased parental stress.

Results: Parents of 265 children with developmental disabilities completed the study; 47.3% of the families had at least one FDW. The mean hour FDWs spent directly with the children per day was 2.3 hours (SD 4.874) and the mean rating for the FDW quality was 2.77 (SD 0.865). After controlling for family factors (i.e. household income, the need for parents to change work hours, and enrollment of the child in school or childcare), linear regression showed that the quality of the helper (β=-7.689, p=0.037) was associated with less parental stress.

Conclusions: This study suggests that the presence of a highly capable FDW is associated with lower parental stress, especially for parents caring for children with developmental disabilities.

SEVERE HYPERCALCAEMIA SECONDARY TO USE OF COMPLEMENTARY AND ALTERNATIVE MEDICINE

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We describe a case of a four year old boy who presented with acute vomiting, weight loss, anorexia, constipation, polyuria and polydipsia. Initial investigations revealed a very elevated corrected calcium level which peaked at 4.46 mmol/l (normal range 2.20-2.60 mmol/l) and a toxic Vitamin D level of 2130 nmol/l (normal range 50-150 nmol/l). He was previously fit and well but had a prior diagnosis of autism spectrum disorder and his mother had consulted a naturopath who had recommended twelve different holistic supplements including calcium and Vitamin D, to help with his autism. He required treatment with hyperhydration, calcitonin, furosemide and several doses of pamidronate before his calcium level returned to the normal range two weeks later.

Use of complementary and alternative medicine (CAM) is common within the paediatric population and probably greatly underestimated by most paediatricians. A UK study surveyed 500 children presenting to a tertiary paediatric unit and found that 41% had used CAM in the previous year. Many families view these therapies as safer ‘natural’ options however, there is significant potential for adverse effects. Another recent study evaluated reported adverse effects of CAM over a three year period and recorded 39 adverse events, including four deaths. Moreover, families often underreport use of complementary therapies to medical practitioners because they do not want to admit to use of non conventional options or because they do not consider this relevant information to disclose during the medical consultation.

Studies looking specifically at children with autism spectrum disorder report even higher use up to 74%. Another study reported that almost one third of children being referred with suspected ASD were already being treated with dietary therapies by their parents even before diagnosis. Although families often report that they use CAM because of fear of side effects with conventional medicine, there is limited data regarding side effects of CAM practices themselves.

The available literature suggests that CAM use is highly prevalent in the paediatric population particularly in children with chronic illnesses including autism spectrum disorder. Although families may report benefits with these treatments, there is no regulation of their use and, as our case demonstrates, there can be significant adverse effects. The parents of our patient did not disclose the use of CAM until a few days into the admission and this is in keeping with studies which show that the majority of parents will not spontaneously disclose this information to medical practitioners. It therefore needs to become routine practice to gather this information as part of the history taking process in all patients, as it may explain symptoms they are experiencing or affect the treatment decisions made.
THE PARENTS’ AND HEALTH CARE PROVIDERS’ PERCEPTIONS OF PARENTAL NEEDS IN A PEDIATRIC INTENSIVE CARE UNIT

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Introduction: The admission of a child into a critical care area in hospital can cause short- and long-term physical and psychosocial emotional distress for the child and family. The individual needs of the parent are varied and it should be understood and assumed accurately by health care providers.

Purpose: This study aims to compare parents’, physicians’ and nurses’ perceptions of parents needs in a Pediatric Intensive Care Unit (PICU).

Materials and Methods: The study was conducted in a Public Hospital and an University Hospital PICU’s. The sample consisted of 50 parents, 18 physicians and 28 nurses. Critical Care Family Needs Inventory (Molter, 1979), modified to pediatrics (Kirschbaum, 1990) was used for data collection. The instrument included five following subscales of family needs: proximity, information, assurance, support and comfort. Reliability of the scale was identified as 0.94 using Cronbach’s alpha. The parents’ needs perceived by both groups were compared within the subscales. Using rank ordering of needs, the relationship of individual needs identified by parent/doctor/nurse pairs were analyzed with the Wilcoxon (Mann-Whitney U) Matched-pairs Signed-Ranks Test.

Results: Health providers defines twenty scale item as important as, twenty-three scale items less important than, and three scale items more important than defined by the parents. Parents, if compared to nurses/doctors, assessed information and trust needs as more important, but there was no statistically significant difference in average scores.

Conclusions: Pediatric health providers should be cognizant of the parents' need for information, assurance, proximity, support and comfort. By consistent identification, prioritization, and incorporation of parental needs into the plan of care, nurses can assist the parents in the recognition and fulfillment of needs that have less perceived importance.

ASSOCIATIONS BETWEEN PHYSICAL ACTIVITY AND ADOLESCENTS’ HEALTH AND WELLBEING IN TWO DIFFERENT CULTURAL CONTEXTS: ENGLAND AND RUSSIA

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Introduction: The benefits of physical activity for long term health, health related quality of life, psychological and social well-being of young people is widely recognised (Brooks et al, 2014). However recent research indicates (Brooks et al, 2014) that across Europe and North America, very few young people meet the recommended levels of physical activity of one hour of moderate to vigorous physical activity per day.

Purpose: Drawing on recent findings from the HBSC study for England and Russia, we aim to examine the association of the levels of Physical activity with the adolescents’ health and well-being in two different cultural contexts: England and Russia.

Materials and Methods: HBSC is a unique cross-sectional international study that is undertaken in 45 countries and has established itself as a major source of data on young people’s health in Europe (Currie, 2012). A mandatory set of questions covering aspects of health and well-being, including Physical activity of young people were included into the survey questionnaire. The class or school was used as a primary sampling unit. The selected population were young people aged 11, 13 and 15 attending school with the desired mean age for the three age groups being 11.5, 13.5 and 15.5. A total of 5679 students from England and 5127 from Russia who completed the last HBSC survey were included in the analysis. Each country sample consists of approximately 1500 respondents in each age group. The question used to assess Physical activity was “Over the past 7 days, on how many days were you physically active for a total of at least 60 minutes per day?” The vigorous level of exercise was measured using the HBSC question: “Outside school hours, how often do you normally exercise in your free time so much that you get out of breath or sweat”. Responses for both measures were categorised into Low, Medium, and High levels of physical activity.

Results: The results indicated that in both countries the level of doing physical activity affects young people’s self-rated health, life satisfaction and emotional well-being and young people who reported doing physical activity few times a week are more likely to report higher life satisfaction and self-rated health. The impact of physical activity on adolescents’ health was moderated by different aspects of their social life in England and Russia (family communication and friendship).

Conclusions: The comparison of international data provides an opportunity to gain a deeper understanding of the impact of physical education on adolescents’ health.
ID: 183 / POST1: Presentation 9
POSTER
Topics: School
Keywords: computer use, liking school, sleeping difficulties, skipping breakfast

TOO MUCH SCREEN, SLEEPING DIFFICULTIES, SKIPPING BREAKFAST AND DISLIKE SCHOOL

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Introduction: Excessive time spent with computer is negatively associated with quantity and quality of sleep what may be an important factor in daily functioning of children. Morning tiredness also increases the chances of skipping breakfast. In terms of school performance, both insufficient sleep and skipping breakfast seriously affects learning ability and consequently academic performance what contribute to negative attitude towards school.

Purpose: Aim was to explore associations between excessive time spent with computer and sleeping difficulties, skipping breakfast in connection with attitude towards school among adolescents.

Materials and Methods: We used data from the cross-sectional Health Behaviour of School-aged Children study collected in 2014 among Slovak adolescents (aged 11 to 15 years old, N=9,250, 50.3% boys). A model of the inter-relation between time spent with computer work, sleeping difficulties, skipping breakfast and attitudes towards school was examined using path analysis.

Results: Time spent with computer work influence attitudes towards school directly as well as indirectly through sleeping difficulties and skipping breakfast. However the indirect paths were small compared to the direct one. The more time adolescents spent with computer the less they like school. With the increasing time adolescents spent with computer work increases also frequency of sleeping difficulties and number of days children skip the breakfast. More frequent sleeping difficulties and more days without breakfast was associated with less positive attitude towards school.

Conclusions: Although there are indirect paths through impact on daily functioning, the excessive time spent with computer directly influences the attitudes towards school in undesirable way.

ID: 254 / POST1: Presentation 10
POSTER
Topics: School, General Pediatrics
Keywords: primary hypertension, micronutrients

PRIMARY HYPERTENSION IN SCHOOL-AGE CHILDREN AND THE ESSENTIAL MICRONUTRIENTS ZN, CU, CR

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Introduction: The role of the trace elements (zinc, copper and chromium) in the effective prevention of cardiovascular diseases and their application in the treatment of primary hypertension in childhood has not been thoroughly investigated yet.

Purpose: To investigate the serum levels of the trace elements zinc, copper and chromium in students aged 10 - 17 years with primary hypertension.

Material and Methods: We measured blood pressure is 1657 students aged 10-17 years in Pleven, Bulgaria, and compared the results of the students with high blood pressure to a control group of 20 normotensive students in the same age group.

Results: 4.53% of the investigated students had high blood pressure, 65.3% were boys. In 80% of the students with hypertension we found decreased levels of serum Zn (9.57 ± 0.96 μmol / L) which was significantly lower than the concentration of Zn in the control group (16.41 ± 3.63 μmol / L), p <0.001, and the zinc deficiency was more pronounced in the students with second degree hypertension. Reduced serum concentration of copper and chromium were found in more than 70% of the students with hypertension and overweight/obesity. The mean values of the lipid measurements in students with primary hypertension were within the normal range, however, they were still significantly higher than the values in the control group. HDL cholesterol levels were significantly reduced in students with second degree hypertension.

Conclusions: Serum concentrations of Zn, Cu, and Cr indicated deficiency in students with arterial hypertension. Given the role of these micronutrients in the cholesterol metabolism, their lower serum levels may be associated with early, preclinical vascular changes. Our results suggest that further in-depth study of the causes of hypertension is needed. The deficiency of trace element in children with high blood pressure requires the introduction of dietary supplements containing Zn, Cu, and Cr to the diet of these children.
ID: 253 / POST1: Presentation 11
POSTER
Topics: General Pediatrics
Keywords: myocardiitis, pneumonia, children

ANALYSIS OF THE INCIDENCE OF ACUTE MYOCARDITIS IN INFANTS AND ADOLESCENTS

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Introduction: Acute myocarditis, an inflammation of the heart muscle, is a rare disease in pediatrics, which still remains an important cause of sudden death, which may be the 1st detectable sign in infants. Adolescents may present with nonspecific respiratory or gastrointestinal complaints, making proper diagnosis difficult. Myocarditis is often misdiagnosed because its presentation has a broad differential diagnosis.

Purpose: We analyze the clinical manifestations and treatment of children with acute myocarditis in Pediatrics department, UMHAT “G. Stranski” - Pleven, during the first half of the year 2014.

Materials and method: Described are 16 infants and adolescents treated for pneumonia with respiratory failure and diagnosed acute myocarditis. Diagnostic methods: history, laboratory tests, radiological tests, ECG and echocardiography.

Results: Out of 510 children hospitalized with pneumonia, 3.14% were diagnosed with acute myocarditis. 93.8% of the children with acute myocarditis had complaints of dyspnoea, weakness - 81.2%, chest pain - 25% and 18.8% - gastrointestinal events. In all children we found typical ECG changes. 37.5% of children had radiological signs of cardiomegaly. Echocardiographic signs of impaired pump function was found in 75% of the children. 37.5% of the children required administration of diuretic and ACE-inhibitor, and 25%- treatment with digitalis, added to antibiotic and immunostimulatory therapy. Two infants (12.5%) were diagnosed with fulminant myocarditis, which presented in one with fatal arrhythmias and cardiogenic shock.

Conclusions: Myocarditis requires a high level of alertness and understanding of the clinical presentation of this disease, in order to prevent the development of dilated cardiomyopathy and the occurrence of sudden cardiac death in childhood.

ID: 157 / POST1: Presentation 12
POSTER
Topics: School
Keywords: ADHD, School age children and Adolescents

EFFECT AND SIDE EFFECT OF STIMULANTS ON CHILDREN AND ADOLESCENT WITH ADHD

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Objectives: Attention Deficit Hyperactivity Disorder (ADHD) is the most common neurobiological disorder of childhood. The Diagnostic Statistical Manual of Mental Disorders describes ADHD as impairing symptoms of inattention, impulsivity and hyperactivity (DSM-V, 2013). ADHD has been associated with a broad range of negative outcomes for children including academic underachievement and social difficulties.

The objectives of this study were:
1. To quantify the change in behavior of students administered Methylphenidate
2. To understand the changes in quality of life for these students and families
3. To quantify the side effects of methylphenidate for these students
4. To quantify the changes in academic performance of these students

Materials and Methods: 102 patients who fulfilled the diagnostic criteria for Attention Deficit Hyperactivity Disorder according to the DSM-V were randomly selected to participate in this study. The patients were seen in the Pediatrics Clinic at Hamad Medical Corporation and assessed by a Pediatrician. The SNAP-IV questionnaire was completed by parents and teachers, developed by Swanson (Swanson, Baler & Volkow, 2011). The SNAP-IV questionnaire was given to parents before and after a stimulant was prescribed. a questionnaire was devised by statistical analysis: Mean improvement in the score for quantitative variables (inattention score, hyperactivity-impulsivity score, and ADHD Combined score) between the pre medication SNAP-IV and post medication SNAP-IV were analyzed using paired ‘T’ tests and the results were presented with respective p value and associated 95% confidence interval. Associations between two or more categorical variables were examined using Chi-square test or Fisher exact test as appropriate. All p values presented were two-tailed, and p values <0.05 was considered as statistically significant.

Results: Our results showed 91% had marked improvement in overall academic performance after starting medication, 86 % reported improvement in overall quality of life and 88 % reported improvement in behavior. With regards to the side effects, 28% of the patient population reported no side effects. 72% reported at least one side effect with the most common being decreased appetite (43%) and trouble falling asleep (26%).

Conclusions: Our data revealed more than half of the patients experienced at least one side effect, however the majority of patients reported that intervention with medication had a positive impact, with marked improvement in academics, behavior and overall quality of life.
RELATIONSHIPS BETWEEN LIKING SCHOOL, SOCIAL LIFE AND FAMILY AFFLUENCE IN TURKISH STUDENTS: FINDINGS FROM THE HBSC STUDY

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Introduction: In reviewing the findings of the International 2009/2010 Health Behavior in School-aged Children (HBSC) study (International report from the 2009/2010 survey), we noted with interest that Turkish students ranked near the top of the list of European countries for both liking school and feeling pressured by schoolwork. At the same time, fewer students in Turkey (less than the HBSC average) spent four evenings per week out with friends, and Turkey placed last or second to last in daily electronic media contact (EMC) with friends. We also noted that there was a significant inverse trend between family affluence and liking school. At the same time, family affluence was positively correlated with spending four or more evenings a week with friends and use of electronic communication.

We hypothesized that, despite academic pressure, students liked school because for some of them, it was much more than a learning experience – it was a place for socialization, of meeting with friends during the period of life when peer relationships assume greater importance. For students with greater opportunities for peer contact, school might not have been so important and therefore, they liked school less.

Purpose: The purpose of our study was to investigate, in a population of Turkish students, the relationships between liking school and time spent with friends either in person or electronically, and to see if these relationships were affected by family affluence.

Materials and Methods: The present study analyzed data from a nationally representative group of 5574 (2699 males) 11, 13 and 15-year-old schoolchildren who participated in the Turkish HBSC 2009/2010 survey. We performed a Spearman analysis to examine the relationships between liking school, and being pressured by schoolwork, spending evenings out with friends and EMC with friends according to family affluence scale (FAS) groups. A p value < .05 was considered significant.

Results: Those students who liked school more felt less pressured by school work in all FAS groups: low, medium and high, respectively (r=0.153 p<0.001; r=0.167 p<0.001; r=0.170 p<0.001). In the low and average affluence groups, those children who liked school less spent more evenings out with friends (r=0.142 p<0.001; r=0.099 p<0.001, respectively). However, this finding was not statistically significant in the high affluence group (r=0.088 p=0.072). Those children who liked school less used electronic communication more in all FAS groups respectively (r=0.147 p<0.001; r=0.198 p<0.001; r=0.127 p=0.009).

Conclusions: Our study shows that, in Turkish students at least, liking school may be affected not only by the school environment, but by social life factors outside of the school. Further studies are necessary to determine if these findings hold true in other settings, with ensuing implications for support of adolescents.

FEEDING PATTERNS DURING INFANCY IN TODDLERS WITH NORMAL WEIGHT AND OVERWEIGHT TODDLERS

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Introduction: There is mounting evidence that early nutrition has long-lasting effect on health. Observational studies suggest that initial breastfeeding or the delayed introduction of complementary foods may reduce the prevalence of obesity in later life.

Purpose: The aim of this study was to identify possible differences in infant feeding patterns between toddlers with normal weight (15.–85. percentile) and overweight toddlers (weight >97. percentile) in two urban settings in Croatia.

Materials and Methods: 273 mothers of toddlers aged 13–48 months (median 26) attending day-care centers in two towns, Zagreb and Čakovec, were given questionnaires regarding the nutrition of their children during infancy. At the time of the study, 166 toddlers had normal weight (median 83.3 percentile, range 15.4–89.4) and 19 children were overweight (median 98.3 percentile, range 97.1–99.8). Descriptive and nonparametric statistics, χ² test and Mann-Whitney U test were used in data analysis.

Results: The study groups did not differ in regard to gender and age at the time of investigation. A difference in duration of exclusive breast-feeding was observed between normal and overweight children as follows: not breastfed 11.0% vs. 26.3%, breastfed up to 2 months 3.0% vs. 10.5%, 3–5 months 41.5% vs. 42.1% and 6 months or longer 44.5% vs. 21.1%, respectively. Results indicate that those weighing >97. percentile were breastfeed significantly shorter (χ² = 7.906, p < 0.05). Additionally, significantly more children in the overweight group were weaned before 6 months than in the normal weight group (89.47% vs. 63.64%, χ² = 5.091, p < 0.05).

Conclusions: In this study we observed that shorter breastfeeding (up to 2 months) and earlier complementary feeding (up to 6 months) were associated with overweight at toddler age. The lack of protective effect of breast milk and the higher protein intake due to early formula introduction and weaning could be contributing factors for accelerated weight gain.
**Poster session 1**

**ID: 281 / POST1: Presentation 15**
**POSTER**
Topics: Nutrition and Diet
Keywords: Diabetes, malabsorption, cholestasis, genetic.

**MITCHELL-RILEY SYNDROME: A RARE CAUSE OF NEONATAL DIABETES**

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**Introduction:** diabetes mellitus is a rare cause of neonatal hyperglycemia (1:500,000 live-born). It is generally caused by mutations that affect insulinergic secretion from pancreatic beta cells and is generally not associated with malformations. The occurrence of malformations and intrauterine growth restriction in this setting generally points towards a polymalformative or genetic disorder.

**Case Description:** female neonate born at 35 weeks of gestational age with a birth weight of 1370 g and a history of intrauterine growth restriction and double bubble sign present in antenatal ultrasounds. On her second day of life, she presented with hyperglycemia consistent with diabetes mellitus and cholestasis (maximum bilirubin levels of 6.17 mg/dL). Other associated malformations included duodenal atresia, annular pancreas, intestinal malrotation, gallbladder hypoplasia and ectopic peri-jejunal pancreatic tissue. She was unsuccessfully treated with ursodesoxycholic acid and cholestasis resolved spontaneously during the first three months of life. Insulin treatment was initiated on the second day of life and required several adjustments until her weight allowed for insulin pump use. During the first month of life, after initiation of enteral feeding, she presented with malabsorption syndrome, requiring the use of several nutritional strategies. Aminoacid formula was reasonably tolerated and complementary feeding was initiated at 6 months of life. This particular set of characteristics was suggestive of Mitchell-Riley syndrome, that was later confirmed by RFX6 gene sequencing, revealing a mutation in exon 4 c.541C>T, p.R181W.

**Conclusions:** Genetic disorders, such as Mitchell-Riley syndrome, are a rare cause of neonatal diabetes and require a multidisciplinary approach with a complex endocrinological and nutritional management.

**ID: 208 / POST1: Presentation 16**
**POSTER**
Topics: Nutrition and Diet
Keywords: Vitamin D, deficiency, insufficiency, prenatal, pregnancy

**MONITORING VITAMIN D LEVEL IN MOTHERS DURING PREGNANCY IS AN IMPORTANT MEASURE TO CORRECT DEFICIENCIES AND MAINTAIN FETAL HEALTH**

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**Introduction:** Prenatal care starts before birth of the baby. To make sure the future newborn will grow properly during the fetal period, the nutritional health of mother should be monitored during this important timeline in fetal life. This even continues to affect the breast-fed babies later on after birth. Vital nutrients such as vitamin D in mother’s serum should be evaluated and if needed, get corrected through providing mothers with proper diet and supplements to ensure deficiency will not develop.

**Purpose:** 1) To identify if any expecting mother is deficient in serum vitamin D level. 2) To propose a corrective measure such as encouraging mothers to consume vitamin D enriched foods or vitamin D supplements to ensure proper baby's growth.

**Materials and Methods:** This observational study was carried out at Taleghani Hospital in Tehran, Iran in 2014. A cohort consisting of 149 pregnant women were followed with their consent until their delivery time as well as their term babies. Vitamin D level for mothers was assayed on the serum collected at the time of delivery by 25-Hydroxy Vitamin D IDS GmbH Immunodiagnostic Systems, Sunrise, Tecan Co. Salzburg, Austria. The method was Enzyme Immunoassay (EIA). Also, fasting serum glucose and insulin levels for both mothers and babies were measured at the time of delivery. Mothers’ weight before pregnancy and at the time of delivery and also babies’ birth weight were measured.

**Results:** From the total sample population, 27% (40 mothers) were vitamin D deficient (7 to 24.9 nmol/L). Yet, 109 mothers (73%) had insufficient vitamin D levels (25.1 to 70.9 nmol/L). No mother in the sample population had sufficient serum vitamin D. Within the range of our data, we could not find any correlation between mother’s vitamin D level and infant’s birth weight. There was no correlation between mother’s weight before and after pregnancy and vitamin D level in mother’s serum. In pregnant mothers, there was a weak negative correlation between serum glucose levels and serum vitamin D levels (Pearson= -0.16, p=0.05, Y= -0.1x + 48, R2 =0.03).

**Conclusions:** Exposure to natural sunlight is the major source of vitamin D. However, despite the availability of abundant sunshine in the region, the epidemic of vitamin D deficiency in Tehran may be caused by factors that need to be investigated in future researches.
**Introduction:** ADHD is the most common psychiatric disease of childhood, and its documented incidence in Indonesia is rapidly increasing. It has been hypothesized that consumption of chocolate may lead to the occurrence of hyperactivity in children, and elimination of it from the diet would result in a dramatic improvement in behaviour; however, research attempting to establish the link between chocolate consumption and ADHD have been very controversial and most studies have not shown this relationship.

**Purpose:** The purpose of this report is to determine whether consumption of chocolate has an effect on the occurrence or worsening of symptoms in children with ADHD.

**Materials and Methods:** On-line databases including PubMed, Medline, and The Cochrane Library were systematically searched for relevant clinical studies published in the last decade (2005 – 2015) that evaluated the relationship between chocolate consumption and ADHD. The abstracts and full text of the retrieved articles were scanned for potentially relevant studies that fulfilled the inclusion criteria. The methodological quality of included studies was assessed using a modified version of the Newcastle-Ottawa Quality Assessment Scale.

**Results:** Three studies met the inclusion criteria and were considered eligible for analysis, of which two were literature reviews, and one was a randomized controlled trial (RCT). In general, most of the articles included in the literature reviews exhibited that the ingestion of chocolate have no direct effect on the occurrence of the inappropriate degrees of hyperactivity, impulsiveness, and inattention that is seen in ADHD. Moreover, a majority of the studies investigating the effect of chocolate on ADHD found no significant evidence of its effects on patient behaviour. One review, however, recommends the trial elimination diet to complement pharmacologic treatment in unresponsive ADHD patients.

**Conclusions:** While chocolate is widely perceived by the public to potentially lead to hyperactive behaviour, this belief is yet to be scientifically substantiated. It is, however, recommended for those who do not respond to pharmacologic treatment to attempt a trial elimination diet.

**Food Allergy**

**Goal:** Goal of our research is determination of the peculiarities of formation of local immunity of intestines in prematurely born children receiving various types of feeding: protected from food allergies, breastfeeding with additives, specialized mixture for the premature children.

**Materials and Methods:** Research was conducted through questioning of random and representative groups of patients (with specially developed questionnaire), by means of one-stage epidemiological research with cross-section method. Selection was provided by simple random method. Research stage included 567 children from 0 to 3 years (322 girls and 245 boys); children’s population was divided into two groups: prematurely born and normally born children groups (201 prematurely and 366 normally born) whose parents have given positive answers to the questions of questionnaire and who had the signs of food allergy identified in result of ongoing research caused by lack of attention from the side of parents. Statistical data processing was provided by SPSS12 software.

**Research Results:** Together with the children with non-infectious prenatal pathologies (hypoxic-ischemic disorders, general hydrops fetalis, conjugated jaundice) there were presented children with infectious-inflammatory diseases (pneumonia, omphalitis, phlebitis of umbilical vessels, conjunctivitis, otitis). All children were divided into two groups based on types of feeding and clinical condition: absence of infectious-inflammatory diseases, some prematurely born children had infectious-inflammatory diseases, with slgA, together with IgA, at the same time, in non-infectious groups some children had immunoglobulin concentrations exceeding the relevant indicators of children in infectious group (p<0.001); all children with breastfeeding showed increased local immunity, compared with the artificially fed children (p<0.05), 0.5% of artificially fed children showed atopic dermatitis, gastrointestinal disorders were identified in 16.9% of cases.

**Conclusions:** Thus, condition of intestine local immunity in prematurely born children depended on age, health status, type of feeding, endogenous slgA. In breast-fed children, irrespective of their health condition, content of immunoglobulin increase significantly with age. No side effects and negative responses were identified in premature breast-fed children receiving additives p<0.05.
PSYCHO-EMOTIONAL CHARACTERISTICS OF THE ADOLESCENTS WITH ALLERGIC RHINITIS

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AR is a widespread allergic disease, with 35-40% prevalence in the world population. It is characterized with increasing frequency, particularly in children’s population.

Goal of the work: Study of psycho-emotional profile in adolescents with allergic rhinitis of different severity.

Materials and Methods: Single-stage research was conducted, in compliance with the ethical norms. Study included 86 children (41 girls and 45 boys) of age from 11 to 13 years with allergic rhinitis of different severity and 30 healthy children. For the purpose of study of the patient’s psychological profile Esenek Personality Questionnaire (EPQ) intended for assessment of characterological and individual psychological features in children and adolescents (10-15 years) was used. Psycho-emotional sphere of the adolescents with allergic rhinitis was assessed also by Psychopathologic Symptom Checklist (Symptom Checklist-90-Revised-SCL-90-R). Clinical scale of self-assessment of psychical condition is widely applied in ambulatory and hospital practice. At the final stage of research the mathematical-statistical data processing was provided by means of SPSS/v12 software package. According to the research results, susceptibility to significant and mild introversion was identified in severe and average AR cases. Such patients are often locked into their inner world. These children are reserved, communicate with the parents and close friends only. They make decisions with due care, love order, control their emotions, are pessimistic and rarely aggressive. Results of neuroticism study by G. Esenek techniques are provided in Table. Neuroticism is associated with the lability of nervous system, characterizes emotional condition or emotional lability (emotional stability or instability). Results of Symptom Checklist-90-Revised – SCL-90R are provided in the Table.

Conclusions: According to the research results, allergic rhinitis is characterized with emotional instability, anxiety, as manifested by unsatisfactory adaptation, unstable nature, depression, low resistance to the stress situations. Based on the conducted researches, we regard that individual assessment of psychological profile of patients with allergic rhinitis would be reasonable, for the purpose of management optimization.

ALLERGIC DISEASES AND ASTHMA IN ADOLESCENTS

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Research Materials and Methods: Research was conducted on the basis of questioning of random and representative cohorts of Tbilisi children’s population, by cross-section method of epidemiological research. Special extended screening questionnaire was developed for epidemiological study of allergic diseases. Research was conducted in 2010-2014 period. Studied population included 1450 children from 2 to 17 years age representing Tbilisi general population (850 girls 600 boys). AR was confirmed, where more than one of the listed symptoms was present and children should not have caught cold, rhinorrhea, nasal obstruction or sneeze, or lung function with some inhalation allergen. AD was confirmed if the subject had AD at a time of interview or clinical study. Markers of asthma severity were based on number of asthma episodes and number of symptoms, or regular consumption of corticosteroids, number of missed days at school and answer of subjects to the question: for the past year what was the degree of discomfort attributable to asthma. Allergic sensitization was assessed based on the skin prick-test and test of specific IgE in serum and was deemed positive where the average diameter of blebs in skin prick tests was 3 mm larger than negative control and IgE<0,35kU/l. Lung function was assessed by means of spirometers, by evaluating maximal forced expiration data and flow-volume curves. Population was divided into “active” and “ever” groups. Main finding is identification of correlation between airways inflammation and phenotype accompanying asthma in children of age from 2 to 16. Research showed than of 860 children (396 males and 462 females) of age from 2 to 8, 62 children had asthma (17 females and 45 males) with at least accompanying disease. Of 590 children (311 males and 279 females) of age from 9 to 17, 81 children had asthma with at least accompanying allergic disease. The most common asthma phenotype was only asthma, in 32.8%, further asthma and allergic rhinitis (27.9%), asthma with allergic rhinitis and atopic dermatitis (13%), asthma with atopic dermatitis (4.9%). Boys are more susceptible to A. and AR, compared with the girls (9.5% boys 4.9% girls) p=0.001. Lung function is significantly correlated with hyperresponsiveness of bronchi associated with asthma phenotype with the lowest FEV 2% data – in case of asthma, allergic rhinitis and atopic dermatitis.

Conclusions: Our research showed than A. in adults is accompanied with AR or AD (approximately 14.9%). In puberty, A. phenotypes with AR was mostly associated with non-specific hyperresponsiveness of bronchi and airways inflammation (p>0.05). In the combinations of allergic diseases the association of the phenotypes with gender was mostly found in males (p=0.001).
**MATERIALS AND METHODS**

The consumption of artificial juices among adolescent population.

**RESULTS**

The results obtained may be explained by insufficient knowledge of the population about the importance of unhealthy habits.

**CONCLUSIONS**

Activities (p<0.001), results were given by school management and might differ from students' experience.

**RESULTS**

SB was associated with the level of urbanicity among Slovak adolescents, not with accessibility of sport facilities or active recess at school respectively. Children in either small or bigger towns are more prone for SB and should be targeted as such. Information on accessibility of sport facilities and active recess at school were given by school management and might differ from students’ experience of accessibility explaining non-significant association with SB.

**CONCLUSIONS**

SB was associated with the level of urbanicity among Slovak adolescents, not with accessibility of sport facilities or active recess at school respectively. Children in either small or bigger towns are more prone for SB and should be targeted as such. Information on accessibility of sport facilities and active recess at school were given by school management and might differ from students’ experience of accessibility explaining non-significant association with SB.

**UNHEALTHY HABITS OF URBAN ADOLESCENTS: AN EXPERIENCE FROM CROATIA**

**INTRODUCTION**

The adolescence is one of the critical periods for the development of unhealthy habits and overweight/obesity.

**PURPOSE**

The study was conducted to analyze taking part in out-of school sporting activities, smoking, alcoholic beverages and daily consumption of artificial juices among adolescent population.

**MATERIALS AND METHODS**

The subjects were healthy male (n=137) and female (n=322) adolescents (14-19 yrs) who were born and live permanently in Trogir, Croatia. They answered questions about: participation in out-of school sport activities (yes/no three or more times a week), smoking, consumption of alcoholic beverages at least once a week (yes/no) and artificial juices (79.7% vs70.6%) (0.044). In the population studied, only 28% boys and 11% girls are involved in some form of out of school sporting activities (p<0.001).

**RESULTS**

Male and female adolescents differed in alcohol drinks (48.2% vs 24.8%) (p<0.001), smoking (25.8 vs 19.8% (p=0.216) artificial juices (79.7% vs70.6%) (0.044). In the population studied, only 28% boys and 11% girls are involved in some form of out of school sporting activities (p<0.001).

**CONCLUSIONS**

The results obtained may be explained by insufficient knowledge of the population about the importance of unhealthy habits for current and future health. Although the results of this study are local in character, they indicate the need for additional involvement by experts in the form of education of adolescent and their parents in order to recognize the importance of forming a healthy lifestyle. Programs of intervention should especially be aimed at boys since they have more unhealthy habits than girls.
Poster session 1

ID: 283 / POST1: Presentation 23
POSTER
Topics: Overweight Prevalence, General Pediatrics
Keywords: sleep, obesity

DOES SHORT SLEEP DURATION INCREASE THE RISK OF OBESITY IN CHILDREN? AN EVIDENCE-BASED CASE REPORT

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Introduction: The prevalence of overweight and obese children has been growing globally in few decades. In adult population, it is generally accepted that insufficient sleep is linked with obesity. However, similar study conducted in pediatric population is limited.

Objectives: This paper was prepared based on a case found at the Senen District Public Health Centre, where a 10-year-old boy presenting with obesity was diagnosed. The patient’s mother was asking if lack of sleep may be the cause for his obesity. This paper aims to show evidence whether the short sleep duration increases the risk of obesity in children.

Materials and Methods: Systematic search was done in on-line databases including PubMed, Scopus, and The Cochrane Library. Relevant clinical studies published in the last 5 years (2010-2015) that investigated the relationship between insufficient sleep and pediatric obesity were scanned if they fulfilled the inclusion criteria.

Results: One cross-sectional population-based study and one longitudinal cohort study are found to be relevant to this report. Both studies shows that short sleep duration increases the risk of obesity in children.

Conclusions: Consistent with previous research in other populations, these findings confirm the association of shorter sleep duration with the risk of obesity. While the mechanisms explaining relationship between sleep and obesity remain unclear, these findings suggest to inform parents the importance of adequate sleep.

ID: 295 / POST1: Presentation 24
POSTER
Topics: Overweight Prevalence, Mental Health
Keywords: child obesity, psycho-emotional disorders, cognitive disorders

CLINICAL SIGNIFICANCE OF PSYCHO-EMOTIONAL DISORDERS AND THEIR CORRECTION WITH THE CHILD OBESITY

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The aim is to improve the results of treatment of obesity in children on the basis of studying nature of clinical, psycho-neurological, psycho-emotional and cognitive disorders and combined usage of medical support (diet + metformin) with individual psychological correction by art therapy methods. There are revealed psychosomatic diseases, psycho-neurological syndromes (attention and hyperactivity deficit syndrome, psycho-vegetative and astheno-neurotic syndromes) and social behavioral disorders.

It is established that the main psycho-emotional disorders in children with obesity are the following: self-depreciation, high anxiety level, as well as depression, impulsivity, introversion, self-doubt, irritability, petulance, negation, pessimism, and aggression.

Cognitive disorders in children with obesity are defective memory, impaired concentration, perceptual defect, poor processing of information, low efficiency.

The combined use of the diet + metformin and individual psychological correction methods (fairy tale and sand therapy) improve efficacy of psycho-emotional disorders and cognitive function disorders in obese children.

ID: 181 / POST1: Presentation 25
POSTER
Topics: General Pediatrics
Keywords: urine, reflux, infant, ultrasound

THE DIAGNOSTIC VALUE OF CONDUCTING VOIDING CYSTOURETHROGRAM IN ALL INFANTS YOUNGER THAN TWO MONTHS AFTER THEIR FIRST URINARY TRACT INFECTION

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Introduction: Urinary tract infection (UTI) may often be the first sign of an undiagnosed congenital anomaly of the urinary system especially in infants less than two months of age. The aim of radiological imaging after the first attack of UTI in this patient population is to therefore, detect any congenital renal anomalies, especially vesico-ureteral reflux (VUR), which increases the risk for permanent renal damage.

Purpose: To determine the need for conducting a Voiding Cystourethrogram (VCUG) in all infants less than 2 months after their first urinary tract infection, irrespective of the renal ultrasound result (RUS).
**THE INCIDENCE OF HYDATID CYSTS OF DIFFERENT LOCATIONS IN CHILDREN IN KAZAKHSTAN**

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Today echinococcosis in Kazakhstan is a common parasitic disease. The annual incidence rate of echinococcosis in Kazakhstan in 1991 was 1.4 cases per 100,000 population, and in 2000 to 5.9. This situation, probably, depends on socio-economic difficulties, the weakening of the sanitary-veterinary surveillance in endemic areas, lack of routine deworming procedures. About 78-80% of the patients with hydatid cysts were residents of the southern region: Almaty, Zhambyl, South Kazakhstan and Almaty. According to the scientific studies, liver (80%) and lungs (40%) are the most frequent localization of the parasite, other forms of localization (15-25%) are considered to be rare echidnarian disease. The incidence of combined lesions of the lungs and other organs, according to statistics data, ranges from 10 to 18%. The frequency of multiple echinococcosis ranges from 5.9 to 30%, and 90% of all multiple lesions localize in the abdominal cavity and its organs. Objective of the study is to determine the frequency of hydatid cysts in different locations in children of Kazakhstan and describe the histological changes in the affected organs.

**Materials and Methods:** A retrospective cross-sectional study was conducted at Hamad Medical Corporation, the only tertiary medical institution in the State of Qatar. Patients under the age of 2 months hospitalised with a first episode of UTI from January 1, 2008 to December 31, 2013 were included in the study. One hundred and thirty six patients met the inclusion criteria.

**Results:** 136 patients (52% females, 48% males) under the age of two months were admitted to the general pediatric ward with a diagnosis of UTI at Hamad Medical Corporation between the periods of January 1, 2008 till December 31, 2013. RUS was conducted in all 136 patients. Of these 136 patients, 87 (63%) also had a VCUG done to screen for VUR. The VCUG results were divided into three categories: normal VCUG (n=56), VCUG with grade 1-2 reflux (n=11) and VCUG with grade 3-5 reflux (n=20). 72.7% of the 11 patients, who had a grade 1-2 VUR, had a normal RUS, which is often the case with low grade reflux. However, the RUS also failed to pick up any abnormalities in 13 out of the 20 babies (65%) with grade 3-5 reflux. Our study showed that RUS had a sensitivity of 32.5%, specificity of 75%, and negative predictive value of 66.7% with a positive predictive value of 41.7% to identify VUR, when compared to VCUG in these infants. The overall diagnostic accuracy for ultrasound to detect VUR in our patient population, aged less than 2 months, was less than 60% (59.8%).

**Conclusions:** More than two thirds of our patients with an abnormal VCUG (VUR grade 1-5) had a RUS that was reported as normal. RUS may often be normal in patients with grade 1-2 reflux. However our data demonstrates that RUS alone, without a VCUG, might fail to detect even clinically significant VUR i.e. grade 3-5 reflux. These results suggest that imaging after the first UTI should include RUS in combination with VCUG to prevent possible scarring in infants, particularly, those less than 2 months of age.

ID: 117 / POST1: Presentation 26

POSTER

Topics: General Pediatrics

Keywords: hydatid cysts, rare localizations, multiple lesions, retrospective analysis
The aim of this study was the quantitative evaluation of cellular and humoral immunity indices in children with juvenile arthritis (JA). We examined 64 children with arthritis (aged from 1.5 to 15 years): with juvenile rheumatoid arthritis (JRA) – 49, with reactive arthritis (Rea)-15 children. The obtained data were compared with a control group of apparently healthy children (17 children) (Kustova, E. A., 2007). The diagnosis of juvenile arthritis was confirmed according to the classification criteria for juvenile idiopathic arthritis, adopted in 1997, Durban.

Systemic form of JRA was diagnosed in 6 examined patients, oligoarthritis in 21 patients, polyarthralgia – 15 patients and juvenile spondylitis - 4 children. The content of mature CD3+ T-lymphocytes was statistically significantly increased both in relative and absolute figures in patients with JRA compared with the control group (75.3±2.4% vs. 61.5±1.5%, correspondingly), but the absolute figures CD3+ T lymphocytes were compared to the control group. Also in the group of patients with JRA unidirectional increase as CD4+ T-helper population (42.3±1.1) and CD8 eff/suppressor cells (34.2±1.3) were obtained compared with values in control group (35.2±1.2 and 25.4±1.4) The relative amount of both subpopulations in patients with reactive arthritis was significantly lower than the corresponding values in the control group, whereas significant changes have been identified in the absolute values. Also, it is necessary to point out the increase in the number of NK cells (24.3±0.9%), CD3+25+ lymphocytes ( 15.1±0.7) compared with patients with reactive arthritis and the control group. Content of the antigen presenting CD8+HLA-DR+ lymphocytes and CD3+HLA-DR+ was dramatically increased in the JRA (8.7±1.2% and 16.7±1.9 percent), significantly increased in the group with reactive arthritis (8.6±0.9 10.8±1.1) compared with the group of healthy children (4.1±0.5% and 6.5±0.9%).

Analysis of the humoral immunity parameters in patients with JRA has identified dysgammaglobulinemia: increased concentrations of IgG (P<0.01) and IgM (P<0.05) in the serum, while reducing the IgA (P<0.05). In the case of reactive arthritis increased level of Ig M was noted in 20% of cases, reduction of Ig A in 12.5%, significant changes in the level of Ig G in comparison with the control was not detected. According to obtained data regarding to cytokine production, statistically significant increase of TNF-α content in the children serum with JRA (P<0.01), and reactive arthritis (P<0.01) was revealed when compared with the control group. Enhance in the IL-6 level was detected only in the group of children with JRA. Summarizing all data, we may conclude that the monitoring of the cellular and humoral immunity indicators allow to draw up an predictive algorithm of relapse periods and further course of the disease.

ID: 215 / POST1: Presentation 28
POSTER
Topics: Chronic Conditions, Mental Health, General Pediatrics
Keywords: array-CGH;

IMPROVING DIAGNOSTIC ABILITY WITH ARRAY CGH IN A DEVELOPMENT OUTPATIENT CLINIC

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Introduction: The incidence of developmental delay/intellectual disability (DD/ID) in the general populations is 1 - 3% and autism spectrum disorders (ASD) affects ~1:150 individuals. Despite the availability of an extensive range of diagnostic exams, the underlying etiology remains unknown in 50 - 80% of patients. Chromosomal microarray (array-CGH) is now the first line genetic test for DD/ID, ASD and multiple congenital abnormalities.

Purpose: To determine the array-CGH contribution for the etiologic diagnosis of the patients with DD/ID and ASD followed at our center.

Materials and Methods: Retrospective study. We analyzed the clinical charts of all patients with unexplained DD/ID and/or ASD followed in a pediatrics Development department from January to July 2015 that had array-CGH performed.

Results: Array-CGH was performed in fifty-one patients, 65% male, with a median age of 10 years (2-18 years); 98 % had unexplained DD/ID and 19.6% had ASD. The average Global Developmental/Intelligence Quotient (IQ), tested accordingly to the age of the patient, was 56 (ranging from 17-83). Ninety percent of the patients had a normal karyotype, 75% a normal Fragile-X test, 55% a normal metabolic study and 41% had a normal brain MRI. Array-CGH was normal in 56% of cases and 16% had clinically significant variants; 19% had copy number variations (CNVs) of unclear significance and their investigation is still in progress.

Conclusions: The array-CGH diagnostic yield described in the literature is 15 - 20%, across all studies, about 12% more than G-banded karotyping alone. Our results confirm the utility of array-CGH as a diagnostic tool in the studied patients.

ID: 128 / POST1: Presentation 29
POSTER
Topics: General Pediatrics
Keywords: Diabetes mellitus type 1, diabetes mellitus type 2, neonatal diabetes

INCREASING T2DM IN CHILDHOOD DIABETES: EXPERIENCE IN A TERTIARY MEDICAL CENTER IN SOUTHERN THAILAND.

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Introduction: Previously, about 90% of childhood diabetes mellitus cases were type 1 (T1DM) and only 10% were type 2 (T2DM). Recently, with an increasing incidence of obesity, T2DM has become the leading cause of diabetes in children and young adolescents.

Purpose: to determine the 20-year trend of childhood diabetes in a single tertiary medical center in southern Thailand

Materials and Methods: The medical records of pediatric diabetic patients, age 0-15 years, who had been diagnosed at Songklanagarind Hospital during 1995-2014 were retrospectively reviewed. The definition and classification of diabetes types were based on the 1999 WHO criteria and the 2011 American Diabetes Association criteria.
**Introduction:** The dilated cardiomyopathy (DCM) is the most frequent form of childhood cardiomyopathies. It is characterized by a dilation of the left ventricle (LV) associated with a systolic dysfunction (Ejection Fraction <45%). Its evolution can be dotted with several complications: heart failure, thromboembolic complications, arrhythmia and sudden death.

**Materials and Methods:** Data of children affected by DCM and followed in the Pediatric department of Sahloul hospital between January 1994 and May 2015 were retrospectively analyzed for the clinical features, evolution and complications.

**Results:** During the study period, 156 children were diagnosed as diabetes mellitus: 99 (63.4%) with T1DM, 43 (27.6%) T2DM, 2 (1.3%) with neonatal DM, and 12 (7.7%) with secondary DM. Dividing the cases into 5-year intervals, we found a significant increasing number of new patients in each period with both T1DM and T2DM: doubling in 2000-2004, tripling in 2005-2009, and more than tripling in 2009-2014, and also an increased proportion of T2DM from 10% in 1994-1999 to 25% in 2000-2004 and 2005-2009, and 30% 2010-2014.

**Conclusions:** The number of T1DM and T2DM pediatric patients has risen sharply in number over the last 20 years, and also the percentage of T2DM has increased from 10% in 1994 to 30% in 2014.

**PITFALLS IN INTERPRETATION OF CT-VALUES OF RT-PCR IN CHILDREN WITH ACUTE RESPIRATORY TRACT INFECTIONS**

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**Introduction:** Cycle threshold (CT) value of real-time polymerase chain reaction (RT-PCR) is inversely correlated with viral load in respiratory samples. It is not clear whether the amount of virus in an individual patient plays a role in disease severity.

**Purpose:** To discuss the clinical relevance of the relation between CT value and disease severity in children with acute respiratory tract infection (ARI).

**Materials and Methods:** A cohort of 582 previously healthy children (<12 years) with respiratory symptoms was prospectively followed. Patients were sampled and tested for 15 viruses. Correlations were calculated between CT value and hospitalization rate, length of hospital stay, length of extra oxygen use and disease severity in children with mono-viral ARI and mixed viral ARI.

**Results:** In mono-viral ARI, there was a small, but statistically significant difference between median CT values of Respiratory syncytial virus (RSV) for hospitalized versus non-hospitalized children (23.17 versus 24.47, p 0.04). For Human Coronavirus (HCoV), there was a weak inverse correlation between CT value and disease severity (rho -0.548, p 0.006). For influenza virus, there was a moderate correlation between CT value and length of oxygen use (rho 0.55, p 0.027). In mixed viral infections with RSV-HCoV, RSV-rhinovirus and RSV-parainfluenza virus, RSV was the virus with the lowest CT value i.e. the highest viral load.

**Conclusions:** Positive correlations between CT values and clinical parameters in ARI are found. However, the clinical importance is limited. Rho values are low, indicating weak correlations without clinical importance. In mixed infections, CT values of different viruses cannot be compared among each other because technical specifications of RT-PCR assays differ between viruses. In mixed infections, it is extremely difficult to point at a major viral contributor of disease severity.

**DILATED CARDIOMYOPATHY: CLINICAL FEATURES, EVOLUTION AND PROGNOSTIC DATA IN CHILDHOOD (33 CASES REPORT)**

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**Introduction:** The dilated cardiomyopathy (DCM) is the most frequent form of childhood cardiomyopathies. It is characterized by a dilation of the left ventricle (LV) associated with a systolic dysfunction (Ejection Fraction <45%). Its evolution can be dotted with several complications: heart failure, thrombosis, arrhythmia and sudden death.

**Purpose:** The aim of our study is to analyze the clinical and evolution features of childhood DCM.

**Materials and Methods:** Data of children affected by DCM and followed in the Pediatric department of Sahloul hospital between January 1994 and May 2015 were retrospectively analyzed for the clinical features, evolution and complications.

**Results:** Thirty three cases of DCM were included. The average age of diagnosis was of 2.6 years. Etiologies were variable, dominated essentially by the viral acute myocarditis (23 cases). Seven children presented complications as a first manifestation of the DCM: Sudden death (1 case), arrhythmia (3 cases: 1 case of ventricular tachycardia and 2 cases of supraventricular tachycardia), ischemic cerebral stroke (3 cases) and cardiac left ventricular thrombus (1 case). These complications arose at six cases of acute myocarditis and a case of non-compaction of the left ventricular myocardium. They were observed at patients presenting an altered myocardium function with Ejection Fraction average = 28 % and Shortening Fraction average = 13 %, while patients who did not present complications had an Ejection Fraction averages = 29 % and Shortening Fraction averages =20 %. Among patients presenting complications: 3 got back a normal myocardium function, 3 died and only one kept an altered myocardium function with neurological sequelae. The other children kept a stable clinical state and an altered myocardial function in echocardiography with a death in one case by acute heart failure.
MELODYDYSPLASTIC SYNDROMES IN CHILDREN

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Introduction: Myelodysplastic syndromes (MDS) are a heterogeneous group of hematopoietic clonal disorders largely of the elderly and exhibit a dramatic increase in incidence with age. However, in children, MDS is rare and often seen in association with genetic disorders and inherited bone marrow failure disorders, owing to a lack of consensus on criteria for diagnosing the disease we report 8 cases of MDS in children.

Materials and Methods: We report retrospectively the epidemiological, cytogenetic, therapeutic and prognostic factors of 8 cases of MDS in children among a review of the literature.

Results: Eight cases of pediatric MDS were diagnosed and treated between January 2005 and December 2013. The median age at presentation is 9 years [2 years-18 years] with 5 boy and 3 girls. The circumstances of discovery were hemorrhagic syndrome in 4 cases, the association: anemia and hemorrhagic syndrome in 2 cases and accidental in two cases. Biologically, normocytic anemia was isolated in 2 cases associated with thrombocytopenia in 3 cases and pancytopenia is found in 3 cases. 3 cases were classified as refractory anemia, refractory anemia with excess blasts type 1 in one case, 2 cases of refractory anemia with excess blasts type 2, refractory cytopenia with multilineage dysplasia in 2 cases. The karyotype was normal in 3 cases, monosomy 7 was found in two cases and complex abnormalities were found in 3 cases. According to the IPSS prognostic classification: three MDS were classified as low risk, two as intermediate risk 1 and three cases were high-risk. The treatment was only symptomatic in all cases, with red and platelet transfusions. The evolution was marked by the death in 5 cases; median overall survival was 14 months.

Conclusions: MDS of the child are a particular and rare type of MDS both in its clinical and cytogenetic presentation of its evolutionary mode.

APPARENT LIFE-THREATENING EVENTS IN INFANTS: REPORT OF 107 CASES

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Introduction: An apparent life-threatening event (ALTE) is defined as an episode that is frightening to the observer and that is characterized by some combination of apnea, color change, marked change in muscle tone, choking or gagging. Because of their prevalence as well as their potential to hide serious diseases, ALTE remains a challenge for physicians caring for infants.

Purpose: The present study aims to review epidemiologic data, clinical manifestations, laboratory findings and evolution of children hospitalized with ALTE who referred to the Pediatric department of Sahloul hospital, during a twenty-two years period.

Materials and Methods: We conducted a retrospective study of all cases of ATLE hospitalized in the Pediatric department of SAHLOUL hospital on a period of 22 years (January 1993 - December 2014). We analyzed epidemiological, clinical and paraclinical data for each child. The therapeutic procedures and outcome were also registered.

Results: 107 patients were collected. They were aged 7.5 months on average [40 days - 30 months-old] with sex ratio male/female=1. The duration of ALTE varied between 1 to 15 minutes. Symptoms were various, associated: dyspnea in 9 cases, apneas in 28 cases, pallor in 14 cases, cyanosis in 87 cases, hypotonia in 54 cases, hypertonia in 11 cases and vomiting in 12 cases. ALTE were concomitant with fever in 5 cases and hypoglycemia in one case. Etiologies of ALTE were dominated by Gastroesophageal reflux in 37 cases followed by neurological causes in 12 cases, cardiovascular causes in 22 cases (17 cases of anoxic malaise), metabolic causes in 3 cases (2 cases of hypocalcemia and 1 case of hypoglycemia), respiratory causes in 6 cases (5 case of bronchilitis and another case of malformation of the upper airway), Two cases of vagal malaise and two cases of false food drive. The causes of ALTE in 23 cases remained undetermined. Most of children (89 cases) had a good evolution, after specific treatment, with no recurrence and without sequelae; 12 infants showed recurrence of ALTE, 10 cases has required resuscitation and 5 died.

Conclusions: ALTE remains a real diagnostic and therapeutic emergency in infants especially for the youngest infants (aged less than 2 months). It must be differentiated from the sudden infant death syndrome. A structured approach to the emergency reception and brief hospitalization is necessary and management require meticulous questioning, careful clinical observation and investigation.
CHRONIC STRIDOR IN INFANTS: REPORT OF 14 CASES

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Introduction: Stridor is a common symptom of pediatric consultation. It is a high-pitched sound caused by turbulent airflow passage into partial obstruction of the upper airways. The causes of chronic stridor are variable and symptoms can range from minimal clinical signs to life threatening.

Purpose: The present study aims to review clinical manifestations, etiologies and management of infants with chronic stridor who were referred to the Pediatric department of Sahlioul hospital, during a fourteen years period.

Materials and Methods: We performed a retrospective review of all cases of chronic stridor hospitalized in the Pediatric department of SAHLIOL hospital on a period of 14 years (January 2000- December 2014). Fourteen cases presenting severe chronic stridor at the medical examination were enrolled in this study. Cases with acute stridor caused by asthma, laryngitis, acute epiglottitis, foreign body, and trauma were excluded.

Results: Over a period of 14 years, 14 cases of severe chronic stridor were collected. The average age of our patients was 6 month-old [2 -15 month-old]. The different etiologies identified were: 5 cases of Laryngomalacia, 4 cases of aortic arch anomalies, 3 cases of gastrointestinal reflux disease (GIR), a case of tracheal stenosis and a case of subglottic hemangioma (SGH). The 4 children with aortic arch anomalies and the one with the tracheal stenosis underwent successfully a surgical treatment with a good evolution in 4 cases and post-operative death in a patient with a vascular ring. The evolution in children with GIR was favorable under specific treatment. Children with laryngomalacia had spontaneously favorable evolution in 3 cases; one case kept ischemic encephalopathy as neurological anoxic sequelae and one child had a fatal outcome. The last infant with SGH had a tracheotomy and has been treated with βbloquant until regression of the tumor.

Conclusions: Infants with chronic stridor should be examined carefully and explored by endoscopic procedures; even the most frequent etiology is laryngomalacia. In fact, others uncommon etiologies may be the cause and could beneficiate of specific treatment. Moreover, close cooperation by otolaryngologists, pediatricians, surgeons, and anesthesiologists is also indispensable for appropriate managements.

EPIDEMIOLOGY OF FULMINANT LIVER FAILURE IN MUSHROOMS POISONING IN CHILDREN IN NORTH-WESTERN ROMANIA (2001-2015)

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Introduction: Mushrooms poisoning occurs quite frequently in Romania, especially in some rural area with low socioeconomic status, and more frequently during late summer and autumn. Amanita phalloides is the most common and fatal cause of mushroom poisoning. Fulminant liver failure is the cause of death in many patients with mushroom poisoning without emergency liver transplantation.

Purpose: The aim of our study was to analyse the prevalence of fulminant liver failure in mushroom poisoning in children during the last 15 years.

Material and Methods: We have analysed retrospectively all patients with wild mushrooms poisonings hospitalized between 2000 and 2015 in our hospital, the main Toxicology Centre in North-Western Romania.

Results: During the last 15 years, 270 children were hospitalized in our centre for mushrooms poisoning. Fulminant liver failure was present in 83 patients (30.75%, mean age 7.82 years, 45 males, 54.21%). Fulminant liver failure was present more frequent in 2001 (32 cases) and 2010 (16 cases). Even though the mortality rate of all mushroom poisoning cases was low (16.66%), in children who developed fulminant liver failure the mortality was high (54.21%), despite the improvement in intensive care management. In our cohort there was no case with possibilities for emergency liver transplantation. The mortality varied between 0% (in 2000) and 100% (2004, 2006, 2008, and 2009). For the last years with fulminant liver failure cases the mortality was decreasing (2010 – 33.75% and 2011 – 20%). During the last years there were announcements on the public TV station in order to present the risks of wild mushroom consumption.

Conclusions: Fulminant liver failure in mushroom poisoning is associated with a high mortality in children, despite optimal medical therapy; without emergency liver transplantation. Improvement in health education and use of media for this aim can plays an important preventive role in decreasing the frequency of mushroom poisoning and subsequently fulminant liver failure in children.

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EVALUATION OF PATIENTS WITH FEBRILE SEIZURES ADMITTED TO THE DEPARTMENT OF PEDIATRIC EMERGENCY

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Introduction: Febrile seizures (FS) which represent the most common childhood seizure disorder, exist only in association with an elevated temperature. They play an important role in neurological disorders during childhood. Children with FS have a slightly higher incidence of epilepsy compared with the general population (2% vs. 1%). Risk factors for epilepsy later in life include complex febrile seizure, family history of epilepsy or neurologic abnormality, and developmental delay. Recurrences of FS are frequent in children. A second FS episode occurs in 30-40% of children after first FS, 2/3 of them experience the 3rd episode. Nine percent of children with FS experience more than 3 episodes.

Purpose: In this study, we aimed to determine the risks of febrile seizures recurrence in patients diagnosed with FS by evaluating the characteristics of the patient.

Materials and Method: A total of 104 children with FS aged between 6 months and 5 years old admitted our department of pediatric emergency from January 2013 to January 2014 included in this study. Laboratory values, treatment methods and risk factors for FS recurrences were obtained from patients Health Information System (HIS) records.

Results: In our study, male/female ratio of patients was 1.12/1.40 and 3% of cases were younger than 18 months. Most frequent fever cause (68.3%) was acute tonsillitis. 42 cases had family history of FK (40, 4%), and familial epilepsy history was present in 6 cases (5, 8%). 83.7% of the cases were simple FS and 13.5% complex FS. Recurrence was observed in 70 patients (67.3%). EEG abnormalities were detected in 15 patients (14.4%). There was no difference in EEG abnormalities between complex and simple FS. Even not statistically significant patient with family history for FS have higher risk of FS recurrences. We didn’t determine an increase in the risk of recurrence within patients with EEG abnormalities. However, the risk of recurrence was increased in patients with complex FS.

Conclusions: Our result showed the high rates of recurrence and the increased risk of epilepsy in children with complex FS, the follow-up of these patients is important.

NEW SLICC CLASSIFICATION CRITERIA DON'T EXCLUDE SYSTEMIC JIA ASSOCIATED WITH MAS: A CASE REPORT

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Introduction: Macrophage activation syndrome (MAS) is a serious and fatal complication, which is seen, most commonly in systemic juvenile idiopathic arthritis (sJIA). The Systemic Lupus International Collaborating Clinics (SLICC) group has recently proposed new criteria for the classification of systemic lupus erythematosus (SLE). Studies reported that SLICC criteria are more sensitive but less specific than the ACR criteria in pediatric SLE patients. Also they could not exclude the diagnosis of hemolytic uremic syndrome (HUS) and juvenile dermatomyositis (JDM). We reported a patient in whom SLICC criteria could not exclude sJIA complicated with MAS.

Case Report: A 6-years old boy was admitted with high fever lasting for 7 days, rash on the trunk and legs, abdominal pain and headache. Physical examination revealed high body temperature (intermittent fever on follow-up), malar rash, salmon pink maculopapular rash apparent during periods of fever and myalgia. Laboratory analysis except CRP: 19.8 mg/dl, Direct Coombs test (+), ESR: 47 mm/h were normal. Abdominal USG revealed splenomegaly. We diagnosed patient as sJIA. On the 6th day of hospitalization the patient suddenly deteriorated. Laboratory analysis showed pancytopenia, hypofibrinogenemia, elevated levels of ferritin and triglyceride, abdominal USG showed hepatosplenomegaly and ascites. Viral and bacterial serologic tests were studied. The patient's blood, urine, throat culture was taken and cefotaxime was started. Staphylococcus aureus was recovered in blood culture and teicoplanin was added to the treatment. Peripheral blood smear showed increased immature neutrophils and toxic granulation in neutrophils. Immunological tests were normal. The patient was diagnosed as sJIA complicated with MAS. We performed bone marrow aspiration was performed and hemophagocytosis was detected. Pulse methyl prednisolone treatment was administered. The patient improved clinically within 7 days. On admission our patient met only two of the SLICC criteria (malar rash and direct coombs positiveness). After diagnosis of MAS he fulfilled 4 clinical criteria (Malar rash, leucopenia, thrombocytopenia, serositis) and 1 immunologic SLICC criteria for SLE (Direct coombs positiveness). According to SLICC criteria, our patient could be diagnosed as SLE. The other hand our patient met only three criteria of ACR (malar rash, hematologic disorders, serositis), and could not be diagnosed as SLE according to ACR criteria.

Conclusions: Our case showed that SLICC criteria can lead to the misdiagnosis in patients of sJIA associated with MAS as previously reported the HUS and JDM cases in the literature. These criteria may necessitate further revision in pediatrics.
Case report: Juvenile polyposis coli with intussusception

We reported the case of a four years old female patient who was admitted to hospital with vomiting and abdominal distention. She had malnutrition and tenderness on the left abdominal quadrant. Patient’s hemoglobin value was 5.2 mg/dl and suspected invagination in ultrasonography. We learned that she had been diarrhea and hematochezia episodes. Hyponatremia and hypoalbuminemia were present in laboratory findings. We operated after erythrocyte suspension transfusion and we found colocolic invagination in operation. Caecotomy was made after manual reduction due to caecal mass and we saw multiple polyps from caecum to ascending colon. Polypectomy was performed (image 2) and planned that colectomy after malnutrition treatment and colonoscopy. Pulmonary atelectasis and pneumonia were developed in the postoperative period and she was followed in intensive care. Enteral nutrition were began five days after the operation. Polyps pathology result was hamartomatous polyps. Patient were discharged with oral nutrition treatment after 30 days after admission to hospital.

Conclusions: Juvenile polyposis coli is a rare cause of intussusception and treatment should be planned according to the patient's accompanying symptoms during the operation. We planned that partial polypectomy and delayed colectomy because of severe malnutrition and anemia in this patient. We think that invagination segment must be palpated by surgeons in the periop invagination operation, like in this patient.
**FIRST SEIZURE IN PEDIATRIC EMERGENCY ROOM**

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**Introduction:** Epilepsy is a common neurological disease in children, with an estimated prevalence between 4 and 6 cases per 1000 children. Several conditions can mimic seizures. The differential diagnosis englobes many pathologies/conditions. Age, comorbidities and suspicious details of the episode can orientate to the diagnosis.

**Material and Methods:** Retrospective observational study, reviewing medical records of children/adolescents admitted at the emergency room of a secondary hospital with parental suspicion of first seizure, between October 2003 and June 2014. Data was treated with SPSS Statistics software 20.0 ®.

**Results:** Were included 135 patients with an average age of 70.7 months. Of these patients, 32 were excluded because, clinically, didn’t show any evidence of crisis (ex: syncopes, crying spasms). The 103 remaining match those who had high suspicion of first seizure. With an average age of 73.9 months (maximum age of 17 years and a minimum of 1 month), 52.4% were male. Personal background revealed that 14% were born prematurely, 6.3% needed resuscitation manoeuvres at birth, 7.8% had structural central nervous system lesions and 9.4% had history of febrile seizures. Family history of epilepsy was positive in 43.8% of cases, febrile seizures in 3.4% and developmental impairment in 6.7%. Generalized seizures were reported in 65% of patients. The most frequent type of seizure was generalized tonic-clonic (40.8%) and 4.9% were considered status epilepticus. The duration of the episode was less than 5 minutes in 47.8%. Electroencephalogram (EEG) was performed in 93.2% and pathologic findings were present in 45.3%. Of the 50.5%, who underwent neuroimaging study (magnetic resonance imaging and/or brain computerized tomography), 5.7% had changes. An antiepileptic drug was initiated in 46.1% of patients.

**Conclusions:** Most of the children who had had a first seizure, won’t have another. However, this can be the initial sign of epilepsy. A meticulous medical history, including family background and a detailed description of the episode can allow clinical distinction of an epileptic seizure and a non epileptic paroxysmal episode.

**PRE-PREGNANCY OBESITY AND LONG TERM OUTCOMES IN CHILDREN HEALTH**

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**Introduction:** Pregnancies of obese women are considered as high risk, as maternal pre-pregnancy obesity has been correlated to both obstetrical and perinatal complications. These complications include pregnancy induced hypertension and diabetes, premature delivery, higher incidence of cesarean section, infection, birth trauma, neonatal macrosomia, neonatal admission to NICU and low neonatal Apgar scores. (1)

**Purpose:** The main purpose of our case control analysis was to investigate the impact of maternal pre-pregnancy obesity on long term outcomes in children’s life.

**Materials and Methods:** A historic prospective case control analysis was conducted. Obese women who gave birth to a living neonate, between 2003 and 2008, in University Hospital of Patras, were defined as cases. Matched controls (age, residency, date of labor) were women of normal BMI, who gave birth at the same period in the same hospital. Data were obtained through telephone interviews, shipping via post or email.

**Results:** Two hundred and eighty two subjects were enrolled in the study. Children born to cases, were at increased risk of having respiratory disorders (OR 2.05, CI 1.201-3.499, p=0.008) and allergies (OR 2.077, CI 1.072-4.025, p=0.03) during infancy and childhood. Additionally, they were at increased risk of being overweight or obese (OR 2.57, CI 1.524-4.339, p<0.001) and having hypercholesterolemia (OR 65.28, CI 0.092 - ∞, p=0.004) during childhood.

**Conclusions:** Maternal obesity before pregnancy may play a potential role in the development of respiratory disorders, allergies, hypercholesterolemia and obesity during childhood. Further studies are required in order to gain a clear image.
COMPARATIVE EVALUATION OF PHYSICAL AND SEXUAL DEVELOPMENT OF ADOLESCENTS IN ARAL SEA

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Purpose: Characteristics of physical and sexual development of adolescent girls in the Aral Sea area compared to the ecological regions of Kazakhstan.

Materials and Methods: 336 girls aged 9-17 years in the Aral Sea region. Indicators of physical development, secondary sexual characteristics, the timing of menarche. Comparison with survey of schoolgirls in ecologically safe regions of Kazakhstan (Turkestan).

Results: These figures of girls’ somatometry from various regions of current residence revealed no significant differences in terms of physical development between the compared regions. A comparison of the annual increase in the length and weight of the girls of both groups expressed as a percentage, showed that children in Aral Sea region peaks maximum growth of both indicators between the ages of 10 and 12 years and advancing a little earlier than with schoolgirls in Turkestan. The curve of increases year on the length and weight of children of different Turkestan has flatter shape. The latter indicates a more equal and sustainable growth processes than girls of Aral Sea region. The average period menarche were recorded in virtually the same girls age in the Aral Sea area compared to the control region. Girls at Aral Sea area had length 157.1 cm with weight of 48.2 kg and almost matched that of the Turkestan girls (height 157.6 cm, weight 46.7 kg). Thus, the comparison the parameters of somatometry studied in children of Aral sea revealed that currently there are no differences from the figures registered in the city of Turkestan. On the acceleration of girls development in the Aral Sea area and the current conditions suggest an earlier date of registration of secondary sexual characteristics and time of menarche. Therefore, the girls backlog of Aral Sea region in physical and sexual development in 2001 was the result of deterioration of material living conditions for the population at that time.

ERYTHEMA MULTIFORME MAJOR: ONE OUT OF THREE

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Introduction and case report: Erythema multiforme (EM) is a rare, acute and self-limited condition, characterized by a hypersensitivity reaction to certain infections or medications. It presents with typical cutaneous lesions associated to mucous membrane involvement, within a wide spectrum of severity. We report a case of an 8 year-old girl with previous history of oral aphthous eruptions, hospitalized for pneumonia associated with respiratory distress and vomiting. On the 2nd day of hospitalization presented with swelling, blistering and ulcerations of oral mucosa progressing to epithelial necrosis, conjunctival hyperemia progressively worsening, and skin macular, rounded, well-defined, target-like lesions on the face, abdomen and extensor surfaces of inferior limbs. One vesicle on genital area was also observed. Due to persistent fever and suspicion of atypical agent infection, ampicillin was replaced by clarithromycin, gradually improving the respiratory symptoms. Topical treatment of the oral and skin lesions was instituted, with regression of these in 3 weeks. Thereafter, she had several herpetic reactivations of the oral mucosa, with progressive decrease in severity and frequency, which were treated with oral valacyclovir. Laboratory tests showed: seroconversion to Mycoplasma pneumoniae 4 weeks after infection; positive HSV1 IgM and IgG and negative HSV2 IgM and IgG; negative RAST, prick and intradermoreaction tests for amoxicillin; negative pathergy test; negative primary immunodeficiency research.

Discussion: Of the three etiologic factors considered as a possible cause of EM in this case (Mycoplasma, HSV and amoxicillin), we admit that Mycoplasma infection is the most likely, regarding the clinical presentation and well documented seroconversion associated with the negative tests for amoxicillin hypersensitivity. A certain degree of immunosuppression caused by Mycoplasma infection could explain the herpes reactivations.

HEALTH FEATURES IN ARAL REGION’S CHILDREN

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Objective: Assessment of 5-17 years old children’s health in the Aral Sea region

Materials and Methods: Children living in the Aral Sea region; survey of children and adult members of these families

Results: The 1st place among the identified deviations in health was occupied by nervous system diseases 30.5%, with different degrees
Poster session 1

of vascular dystonia 45.4%, fatigue 29.4%, cephalalgia 11.3%, neurosis 10.0%, Speech Dev. Delays 3.9%. 2nd place: the digestive system disorders 20.1%, including biliary dyskinesia 48.0%, gastrointestinal tract func. disorders 24.3%, chr. gastroduodenitis 17.1%, chr. cholecystitis 10.5%, reac. pancreatitis 7.9%. The 3rd place: congenital malformations CM 11.2%, among which CM of musculoskeletal system 51.7%, followed by the genitourinary system defects 32.9%, and the CM of the circulatory and hearing, vision systems 15.2%. Bronchopulmonary pathology was found in 8.4% of children, including asthma 23.5%; 51.5% with recurrent obstructive bronchitis, 13.2% with chr. bronchitis, 8.8% with other types. Cardiovascular disease was observed in 4.6% of children. Among other diseases 24.5%: endocrine pathology 31.2% and genitourinary system diseases 24.2%. 17.5% children had frequent and long-term illnesses: comorbidities 44.7% and chronic foci of infection 55.3% were revealed with higher confidence p>0.001, Infection ind: 1.7. Endogenous factors: prematurity 23.8%, perinatal disorders 46.5%. Exogenous factors: the low level of health culture 48.5%, nutritional deficiencies 35.1%. Situational anxiety and low material status had quite a high level 60.3% and 65.3%, respectively. Health groups: 9,2% healthy children I g, the children at risk 50,4% II g, with chronic diseases in the compensation stage 28.6% g III., IV g - 6.8% and V g- 5.0%. Addressing the problem of children's health from Aral Sea region requires a comprehensive approach: medical, social and psychological factors.

ID: 289 / POST1: Presentation 45
POSTER
Topics: Rare Diseases, Lysosomal Storage Diseases
Keywords: Umbilical hernia, corneal opacity, Sheie syndrome

PROGRESSIVE GIANT UMBILICAL HERNIA REVEALING AN MPS 1

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Introduction: Some surgical aspects may reveal authentic metabolic disorders that have “soft” presentation. We report the case of a 30 months boy with an increasing umbilical hernia.

Materials & Methods: A 2.5 years old boy of non-consanguineous parents without specific history consults in pediatric surgery and then in pediatric out-clinic for a progressive, giant umbilical hernia that develops from few months.

Results: Ophthalmology examination reveals a bilateral corneal opacity, while systemic visceral evaluation is free from other organic dysfunction / abnormality, except small dysmorphic features (coarse face)

A high suspicion of lysosomal storage disease (e.i. Mucopolysaccharidosis type 1) allows enzymatic assay and confirms the mild Scheie syndrome.

Discussion: Scheie syndrome is the mildest form of mucopolysaccharidosis type 1, caused by mutations in the IDUA gene (4p16.3) leading to partial deficiency in the alpha-L-iduronidase enzyme and lysosomal accumulation of dermatan sulfate and heparan sulfate. Symptoms commonly occur after the age of 5 years. Corneal opacification occurs progressively and diffusely. Patients present with mild coarsening of the facial features, including a large mouth with thick lips. Genetic counseling is highly recommended in such condition. Enzyme replacement therapy should be started at diagnosis as early treatment slows the progression of the disease.

Conclusion: Surgeon should consider a careful pediatric/metabolic consultation for some peculiar hernias, specially for their giant or recurrent aspect.

ID: 172 / POST1: Presentation 46
POSTER
Topics: General Pediatrics
Keywords: Short stature, rural zone, high altitude

SHORT STATURE: PECULIAR FINDINGS OF A REGIONAL STUDY IN ALGERIA

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Introduction: Short stature is a common monitored health parameter. We report the preliminary results of a regional study in Algeria with some particular findings

Purpose: The purpose of this work was to have a regional epidemiological reference for short stature in school aged children and to discuss local specificities

Materials and Methods: A multicentric study, involving 8 primary schools with a total of 2493 pupils, was conducted in Setif region (Algeria); in both rural and urban zones. Height was reported according to WHO 2007 Growth Charts.

Results: 66 children (2.64%) had a Z-score at 2 or less, among which 59% were girls. The rural origin, accounting for 98% of height-deficient population, is a hallmark report. The effect of high altitude (narrowing 1000 m in the studied area) is also discussed.

Conclusions: Local influencing factors should be considered while appreciating growth (e.g height) of young population, regarding to such peculiar findings of epidemiological reports. This could lead to a more adapted (and may be more precocious) managing for short stature in children.
NEONATAL INFECTIOUS HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS

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Introduction: The Hemophagocytic lymphohistiocytosis -HLH- is a severe complication of some neonatal infections, as reported here.

Purpose: Some non specific sign may lead to very compromising condition and allow a targeted therapy

Materials & Methods: The newborn presented a combination of multivisceral deficiency associated to a myriad of anemia - thrombocytopenia and febrile splenomegaly. The balance sheets show a marked inflammation (serum ferritin> 1500); hyponatremia and hypertriglyceridemia. A holistic approach, with antibiotics, antiviral, and steroids is ordered and the newborn recovered within 5 days..

Discussion: The secondary -non primitive, non genetic - HLH is defined by clinical criteria (fever, splenomegaly), biological (bi- or pancytopenia, hypofibrinogenemia, hypertriglyceridemia, ferritin) and cyto-histological (hemophagocytosis). A possible infectious agent (bacterial, viral, fungal or parasitic) must be “hunted” and treated urgently. The treatment is etiologic and corticosteroid.

Conclusion: The signs of infection and those of HLH can entangle. It should be paid on biochemical results and the search for causative agent.

EPIEIDOLOGY OF ACUTE IMMUNE THROMBOCYTOPENIC PURPURA IN CHILDREN: A RETROSPECTIVE STUDY FROM QATAR

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Introduction: Immune thrombocytopenic purpura (ITP) is the most common bleeding disorder in childhood; usually a self-limiting disorder, follows a benign course and recovers spontaneously after few weeks.

Purpose: The objectives of this study were to describe the clinical and epidemiological characteristics of children admitted with newly diagnosed ITP in Qatar.

Materials and Methods: A retrospective and descriptive study was conducted in pediatrics department at Hamad Medical Corporation, the main academic tertiary hospital in Qatar. All Children hospitalized with acute ITP from January 2008 to January 2014 were included.

Results: A total of 80 acute ITP patients were identified, mean age of presentation was (3) years and (53 %) were male. (80%) of the patients had a platelet count of 20,000 or less on admission and most (84%) were hospitalized for duration of up to 5 days. Recent viral illness considered the most risk factor in (60 %), Spontaneous bruises and petechiae was present in (77.5 %) of children’s, only (4 %) developed serious intracranial and lower gastrointestinal bleeding. The treatment modalities were as follows: Intravenous immunoglobulin (IVIG) in (86.5%), IVIG and steroids in (6.5%), observation (6%) and steroids alone (1%).Nearly (66 %) recovery with normal platelet count within 1 year from date of diagnosis compared to (34 %) progressed to chronic ITP.

Conclusions: Our study showed that the clinical feature of Acute ITP were similar to findings in other parts of the world. Although the rate of life threatening complication is low, the chronic ITP higher in our population than in literature. Management decisions in our center are often based on physician discretion, rather than established international guidelines.

EVALUATING QUALITY AND IMPACT OF ACUTE PAEDIATRIC INPATIENT CARE FOR CHILDREN AND YOUNG PEOPLE ADMITTED WITH SELF-HARM INJURIES OR EATING DISORDERS: A RAPID REVIEW OF THE LITERATURE

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Introduction: In England the prevalence of children and young people (CYP) accessing acute paediatric inpatient care with mental health problems is increasing, with self-harm injuries and eating disorders particularly prevalent. The initial period of acute care for CYP with these conditions can involve multiple assessments and interventions in order to meet potentially diverse needs. However, their is
currently a deficit in understanding of the quality, experience and outcomes of those CYP in receipt of inpatient paediatric care with these conditions.

**Purpose:** To review and synthesise existing evidence that reports CYP with self-harm injuries and/or eating disorders experiences and outcomes of being in receipt of acute paediatric inpatient care.

**Materials and Methods:** An eight stage approach to rapidly review the evidence was used (Khangura, et al., 2012). This included: Step 1 – Needs assessment; Step 2 – Question development and refinement; Step 3 – Proposal development and approval; Step 4 – Systematic literature search; Step 5 – Screening and selection of studies; Step 6 – Narrative synthesis of included studies; Step 7 – Report production; Step 8 – Ongoing follow-up and dialogue with knowledge users. Eight electronic databases were searched between February - May 2015. All studies identified from the searches were screened by title and abstract by two independent team members using a predefined eligibility criteria

**Results:** Database searches yielded 101 papers, with six papers duplicates. Of the remaining 99 records, screening by title and abstract identified 78 papers did not satisfy the inclusion criteria. Full texts were obtained (n=16), a further six papers were excluded. Of the remaining 10 eligible papers, a search of their reference lists identified a further three papers that were eligible for inclusion in the review. Therefore 13 papers were included in the review. Evidence included international studies from the Western world. Papers that investigated CYP with eating disorders dominated the evidence (n=11), CYP with self-harm injuries (n=2) was significantly underrepresented in this sample. From the 13 studies included, 668 CYP participated. There were six qualitative studies using a range of approaches for analysis, with the remaining studies including: cohort studies, case control designs as well as a literature review. From the narrative synthesis of the included studies, 11 themes emerged that were catagorised into three overarching themes: Care, Communication, and Environment.

**Conclusions:** Findings from the studies included in this rapid review indicate that CYPs reported experiences and outcomes of receiving acute paediatric inpatient care relates to aspects of care provision, communication and the environmental setting. However, further empirical work is required to explore these themes to establish relevance. This is particularly important due to the scarcity of experiences and outcomes reported by CYP admitted with self-harm injuries.

**EVALUATING THE QUALITY AND IMPACT OF ACUTE INPATIENT CARE OF CHILDREN AND YOUNG PEOPLE ADMITTED WITH SELF-HARM INJURIES OR EATING DISORDERS: A MULTIPLE STAKEHOLDER ENGAGEMENT PROJECT**

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**Introduction:** National admission data indicates that the prevalence of Children and Young People (CYP) accessing acute paediatric inpatient care with mental health problems is increasing, with eating disorders and self-harm injuries particularly prevalent. Despite a growing patient population, there is currently no patient centered outcome measure (PCOM) that assesses the impact and quality of being in receipt of non-specialist inpatient care for CYP admitted with self harm injuries or eating disorders.

**Purpose:** This study aimed to evaluate the experiences and impact of admission of inpatient, non-specialist care through stakeholder engagement. Specific objectives included:Evaluate experiences of care; Establish consensus of domains; Assess acceptability of PCOM implementation.

**Materials and Methods:** Participants were identified and recruited from single children's hospital in England. Six stakeholder engagement workshops were conducted between May -July 2015 with three stakeholder groups: (1) CYP with self harm injuries or eating disorders; (2) Parents/carers of CYP with self harm injuries or eating disorders; and (3) Professionals from health, education and social care. A combination of approaches were employed to capture and prioritise participants' views and experiences. Graphic elicitation was used to create visual timelines that focused on significant aspects of their care pathway. Nominal Group Technique (NGT) was also employed to rank the relevance of participant- and literature- generated statements relating to the quality and outcomes of care. This technique allows for group decision-making to be undertaken whilst ensuring involvement from everyone. Data was transcribed verbatim and analysed using thematic analysis. Statements from the NGT were inserted into Excel™ and analysed by calculating a strength score using the following equation: (score achieved for the item)/maximum possible score).

**Results:** In total 96 CYP, parents and carers, and professionals participated. From the qualitative feedback, Thematic analysis of the data resulted in the emergence of 12 themes, from 49 codes. Themes identified variation in pathways and experiences of care that resulted in both positive and negative, and sometimes conflicting outcomes and impact. Analysis using from NGT identified congruence between groups with top ranking statements with highest consensus related to care and environmental factors.

**Conclusions:** This evaluative stakeholder project has provided opportunity for the views of CYPs, parents and carers, and professionals from health and education to be explored in relation to being in receipt of non-specialist inpatient care and provide direction for the development of services as well as the focus for a PCOM. Both positive and negative aspects of care were identified. The acceptability of when and how outcomes are measured varied between the two groups of presenting conditions. Therefore any PCOM developed needs to be flexible in how and when it is implemented to satisfy these diverse needs.
FROM LUMBAR TUMEFACTIO TO TUBERCULOUS SPONDYLODISCITIS – A CASE REPORT OF POTT’S DISEASE

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Introduction and Purpose: Pott’s disease, also known as tuberculous spondylodiscitis, represents 1-2% of total cases of tuberculosis, generally occurring as a consequence of a non spinal infection. It is not only related to socioeconomic factors, but also to past history of exposure to infection. It presents itself in a nonspecific way, namely through lumbar pain, fever and weight loss. Neurologic symptoms are present in 50% of cases and there is risk of bone destruction, deformity and paraplegia.

Material and Methods: Case report of a 16 years old adolescent with Pott’s disease.

Results: A sixteen year old female adolescent, with no relevant past history, came in to the emergency room with a lumbar tumefaction, with 8 days of progression and no history of trauma, associated with lumbar pain and left inguinal pain on walking. Manual palpation was painful. Initial blood tests revealed augmented inflammatory markers, including sedimentation rate. The ultrasonography described a large nodular lesion with internal cystic areas. The patient was admitted for study, and an magnetic resonance imaging was done, revealing lesions suggesting an infectious spondylodiscitis on L1L2, associated with an intrasomatic abscess, with an anterior epidural intracanal component, as well as a right lateral anterior paravertebral one and a large left paravertebral abscess ranging from T12L1 to the inferior part of the iliac fossa, with extension to left soft tissue, originating a tumefaction in the lumbar area (images 1 and 2). Complementary investigation documented the presence of Mycobacterium tuberculosis on caseous material obtained by computed tomography guided tube drainage. Anti-tuberculous treatment was initiated and she was submitted to orthopaedic surgery 4 weeks later.

Conclusions: Pott’s disease is a potentially serious condition which, as other types of extrapulmonary tuberculosis, represents a diagnostic challenge. The diagnosis and treatment in an early stage is crucial for the prognosis.

MORTALITY OF CHILDREN FROM CONGENITAL MALFORMATIONS IN THE KYZYLORDA REGION

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Objective: To determine the frequency and structure of the mortality rate of children from 0 to 5 years of congenital malformations (CDF) in Kyzylorda region for the development of future programs to strengthen children’s health in the region.

Material and Methods: Expert analysis of the mortality rate of 0-5 years old children on a specially designed map. Medical records of children died for 2009-2011 in Kyzylorda region were analyzed.

Results and Discussion: In 2009, the proportion of children deaths under 5 from the CDF was 18.5% of all deaths of 0-5 years old children, in 2010 - 18.1%, in 2011 - 16.0%. In the early neonatal period, mortality rate was 37.7%, in the late neonatal period - 26.9% and in the post-neonatal period - 33.9% of all deaths from congenital malformations in the region over 2009-2011. In the structure of children died in the neonatal period from the CDF, multiple malformations accounted for 1/3, where in each case congenital heart disease, combined with other congenital disorders was present. At the age of 1-5 years, the proportion of deaths from congenital malformations in 2009 was - 12.6%, in 2010 - 12.5% and 8.1% in 2011. Congenital heart disease (>45.6%) were at the first place as a cause of infant mortality. Thus, the major losses from CDF (> 37.7%) were observed in the first 168 hours after birth, indicating the high rate of malformations incompatible with life. The increase in the proportion of malformation in the structure of neonatal and infant mortality in Kazakhstan is due to a relative decrease in infant mortality from infections and birth defects. One of the priorities is the development of modern neonatology and improvement of prenatal diagnosis, which would allow not only to determine the CDF in utero, but also to carry out management of pregnant women, the prognosis, to determine the place of birth, taking into account the capability to verify defect in the fetus.
A CLINICAL CASE OF WALDMAN SEVERE FORM SYNDROME IN CHILD OF THE FIRST YEAR OF LIFE

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Primary intestinal lymphangiectasia (Waldman syndrome) - congenital abnormality of the lymphatic system in children – a disease that occurs infrequently. The main clinical manifestation of intestinal lymphangiectasia is a syndrome of malabsorption: diarrhea, nausea, vomiting, abdominal pain, peripheral edema. In some cases, there is steatorrhea of varying severity. Loss lymph, containing the main immune cells and immunoglobulins, contributes to the emergence of secondary immunodeficiency, characterized by increased susceptibility to infectious diseases.

Patient: B. A. At the age of 6 months was diagnosed with acute respiratory viral disease. Antibacterial therapy was prescribed. For the first time mother observed the swelling on the face, then, during breastfeeding atomic seizures with loss of consciousness have been occurred. Child was hospitalized in the intensive care unit to the regional children’s hospital. Biochemical analysis: hypocalcemia (1.57 mmol/l) and hypoproteinemia (31 g/l) was detected. Swelling in the face and extremities appeared again, the child was sent to the Scientific Center of Pediatrics for further diagnosis. Health status at admission moderate severity, edema of the lower extremities. In the biochemical analysis of blood: protein concentration in serum - 28.0 g/l, albumin 24 g/l, CRP – 292.4 mg/l, hypocalcemia (1.99 mmol/l). Histological examination: intestinal lymphangiectasia. Immunological examination: absolute lymphopenia. The ratio of cell subpopulations severely disrupted. Severe hypogammaglobulinemia of all classes. Conclusion: concomitant immunodeficiency manifested by infectious disease due to the underlying disease. Taking into account the age of the infant patient, the presence of massive, symmetrical, peripheral edema, absence of factors that trigger the occurrence of secondary lymphangiectasia, histological examination, the final diagnose: primary intestinal lymphangiectasia, secondary immunodeficiency state. Treatment at the initial stage: transfusion of albumin, antibacterial drugs s, Octagam, prednisone, drugs for the correction of electrolyte disturbances. The concentration of serum protein after albumin transfusion increased to 40–42 g/l for a short period of time. Because of the constant hypoproteinemia, sandostatin in the dosage of 1 mg/kg was prescribed. Biochemical analysis: protein level - 46 g/l. With the improvement of the health status child was transferred from intensive care to the Department of somatic pathology. Albumin transfusion - cancelled. Protein level increased to 53 g/l, swelling disappeared, great sponginess of the tissue remained. The patient was discharged with recommendations for the permanent combine therapy including sandostatin.

Conclusions: This clinical case has the following interesting facts:
1. a rare occurrence pathology
2. uncommon early onset
3. the severity of developed immunodeficiency
4. manifested infectious syndrome that made difficult to diagnose the underlying disease.

CLINICAL CASE: THE DEVELOPMENT OF SECONDARY HEMOPHAGOCYTIC SYNDROME IN A Child WITH COMBINED DISEASE OF THE CONNECTIVE TISSUE

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The clinical case of activated macrophages syndrome in patient with combined disease of connective tissues was diagnosed in Scientific center of pediatrics and children surgery. Patient: S. K., girl, 7 years old. The first symptoms developed after an acute intestinal infection. Diagnose “generalized stage of yersiniosis” have been confirmed in positive laboratory tests. Antibacterial treatment – without any efficiency. Child was sent to our clinic because of ineffective therapy, continued fever, rash, increased levels of acute-phase proteins. The patient was admitted to the clinic with a referring diagnosis “undifferentiated collagenosis” three months from onset of the disease. The main clinical symptoms at admission: fever, hepatosplenomegaly, lymphadenopathy, arthralgia, myalgia, erythematous rash all over the body, periorbital edema, Gottron symptom, capillary, carditis, signs of pneumonitis, jade. In the analyses: RBC - 3.7*1012/l, HB-98g/l, platelets – 333*10³ / mkl, Leu - 10.9*10⁹/l, sedimentation rate - 60 mm/h, ALT-64 U/L, AST - 58 U/L, CRP-180 mg/l. A presumptive diagnosis “connective tissues systemic disease” have been offered, as we had observed symptoms of systemic type of juvenile idiopathic arthritis (Jla) and juvenile dermatomyositis. A positive response on a high dose of methylprednisolone was revealed for the short period. Repeated worsening of clinical status with vomiting, abdominal pain, intoxication, neurological symptoms was accompanied by a controversial laboratory parameters. There was a reduction of CRP, ESR at higher ALT, AST, ferritin. The diagnosis of secondary hemophagocytic syndrome was based on hyperferritinemia (5000 ng/l), hypofibrinogenemia- 0.6 g/l, low level of PLT- 32*10³/ml, increased level of ALT-958 U/L, AST-3308 U/L, hypercholesterolemia, increased levels of triglycerides, lactate dehydrogenase- 1098 U/L, procalcitonin assay - 6000 pg/ml, twice increased level of IL 6 and TNF. The myelogram study was performed aimed to confirm differential diagnosis and “macrophage activation syndrome”. Bone marrow punctate: granulocytes were represented mainly by mature cells, erythrocytes were represented by a small number of mature cells. The megakaryocytes were not found. Macrophages with phagocytic activity were detected.

Clinical data and laboratory tests showed the damage of the lungs, Central nervous system, mucous membranes, kidneys, bone marrow and significant liver damage with liver failure. Central nervous system, mucous membranes, kidneys and bone marrow, significant liver damage with liver failure. The disease was characterized by undulating course with a sharp increase in the level of ferritin-up 6.000 pg/l, neurological symptoms, pneumonitis, cytopenia. A positive effect was observed at high
doses of methyprednisolone, intravenous immunoglobulin 1g/kg per day (No 5), dexamethasone. Cyclosporine did not cause inhibition of the activation of macrophages.

**Conclusions:** there are difficulties to confirm a severe variant of secondary “macrophage activation syndrome” in a child with systemic autoimmune pathology. Antibacterial therapy is considered to be a trigger in the development of macrophage activated syndrome. This complications require to develop an algorithm for the diagnosis of early MAS markers combined with autoimmune pathology.

**Ways to Overcome Barriers to Preventive Vaccination of Cervical Cancer in the Outpatient Phase**

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**Introduction:** One of the problems of preventive vaccination is the insufficient vaccination coverage of adolescents against the human papilloma virus (HPV). Out of all the children from PD MED since the year 2008, only 30 girls aged 12 to 15 were vaccinated against HPV (which amounts to 90 doses). According to a survey reasons for the refusal of vaccination include doubt, insufficient reasoning, and pediatricians’ uncertainty of the need for vaccination against diseases that are not listed in the national vaccination schedule.

**Purpose:** increasing people’s awareness about HPV infection could persuade pediatricians to pay more attention to this issue.

**Materials and Methods:** This study involved the collection and analysis of statistics of the clinic's Gynecological Department in the years 2012 - 2014 in order to; determine the number of women infected with different HPV types, including types 16 and 18 and the number of women newly diagnosed with cervical cancer.

**Results:** It was found that over the period of 2012 – 2013 – 2014 the number of women aged 18 to 57 that sought medical advice for various gynecological disorders amounted to 22515 – 20655 – 19109 respectively. 5979 women were screened for various types of papillomavirus. Cervical cancer was diagnosed in 3 (0.09%) women in 2012, 4 (0.08%) in 2013 and 2 (0.06%) in 2014. Analysis infection rates showed that the number of people infected with HPV was 1284 (21.5%), of which 24.6% infected with HPV-16, 6.5% with HPV-18, and 1.4% infected with both types. The analysis of the age structure of women infected with HPV-16 type under the age of 25 years was 14% (58 people). The number of people infected with HPV was 1284 (21.5%), of which 24.6% infected with HPV-16, 6.5% with HPV-18, and 1.4% infected with both types. The analysis of the age structure of women infected with HPV-16 type under the age of 25 years was 14% (58 people). The age structure analysis showed that the number of women infected with HPV-16 aged under 25 years was 14% (58 people), and this number increased to 52% (214 people) for women aged under 30 years. The analysis provides enough information on the early infection of women aged under 30 years with HPV. This helps improve the awareness, confidence, and motivation of pediatricians that take decisions on the need for timely vaccination of children in order to prevent the development of cervical cancer. Work has begun on the follow-up medical supervision of vaccinated girls in order to determine the degree of protection against the HPV.

**Conclusions:** Systematic interaction of doctors and the analysis of morbidity within the medical care units can be considered as the model that helps overcome the barriers on the way to anti-HPV vaccination.

**Diagnostic Difficulties in a Case of Autoimmune Diseases Association**

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**Introduction:** Autoimmune diseases have an unpredictable development potential. Their early diagnosis and treatment can bring real benefits to the patient. Association of autoimmune diseases in the same patient, which happened frequently in recent years, may have a bad prognosis. These diseases are the result of the interaction between environmental and genetic factors.

**Purpose:** assessing the possibility for development of three autoimmune diseases combination: autoimmune hepatitis, thyroiditis and celiac disease, with the possibility of developing diabetes.

**Material and Methods:** We tried to identify the etiology of hepatic cytolysis syndrome at a 6-year-old girl. The patient did not present troublesome symptoms. The patient presented to the doctor for an external facial paralysis at which point the hepatic cytolysis syndrome was highlighted.

**Results:** Laboratory investigations ruled out viral hepatitis HBV, HAV, HCV, HDV, CMV, and EBV. Autoimmune hepatitis was initially ruled out by lack of inflammatory syndrome, Ac-ANA negative, and p-ANCA negative. Transglutaminase antibodies were negative. From 6 to 10 years the patient was investigated by medical service in Italy, but etiology has not been elucidated. At 10 years old the patient back in the pediatric service in Cluj-Napoca and new investigations were made. Transglutaminase antibodies are currently weak positive. Abdominal ultrasonography shows the presence of liver cirrhosis. Parents refuse liver and duodenal biopsy, investigations conducted afterward in Italy. Liver biopsy indicates the presence of autoimmune hepatitis in cirrhotic stage with fibrosis degree IV. Duodenal biopsy shows the presence of celiac disease stage 3C Marsh. Patient starts the gluten-free diet. Drug therapy includes cortisone and Imuran. Hepatic
cytolyis syndrome evolution is favorable. At 12 years old the patient returns for investigation, at which point can be detected the presence of an autoimmune thyroiditis.

Conclusions: The negative serology makes early diagnosis difficult. The combination of three autoimmune diseases in the same patient can lead to a bad prognosis. Association between celiac disease and autoimmune hepatitis can lead to negative serology for both diseases, but evolution progresses.

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POSTER
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DUBOWITZ SYNDROME – CASE REPORT OF A RARE CONGENITAL DISORDER
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Introduction and Purpose: Dubowitz syndrome (DS) is a rare developmental disorder characterized by distinctive facial features (ptosis, telecanthus, facial asymmetry, low-set ears, micrognathia/retronatia), growth failure, microcephaly, urogenital malformations, eczema and mild mental retardation. Behavioural characteristics include hyperactivity, short attention span, feeding problems and social anxiety. The inheritance pattern seems to be autosomal recessive, but the specific responsible gene mutation has not yet been identified. The diagnosis is based on the identification of the characteristic features (mainly the facial features).

Material and Methods: Case report of a 3-year-old child with DS.

Results: We describe a 3-year-old boy clinically diagnosed with DS. His phenotypical signs include microcephaly, peculiar facial features (short downslanted palpebral fissures, ptosis, telecanthus, anteverted nares, wide nasal base, thin upper lip, micrognathia, low low-set ears), clyndactily, hypospadias, micropenis, nonpalpable right testicle and sacral dimple. He also has growth failure and feeding difficulties from birth, interatrial communication (solved in the meantime), eczema, recurrent wheezing and mild developmental delay. He underwent orchidopexy and hypospadias corrective surgery at 2 years old. At present time, his daily medication is dihexazin PO and inhaled fluticasone.

Conclusions: DS is a rare syndrome. As no data is available after puberty, long-term outcome still remains elusive.

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POSTER
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HEPATITIS IN RUBEOLA INFECTIONS IN A CHILD
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Background: Measles is an acute, pyretic, exanthematous disease; caused by paramyxovirus family. The presentation occurs with prodromal symptoms followed by generalized rash. Pneumonia and otitis media are the common complications of measles. However some cases occurs with hepatitis, meningitis, encephalitis and myocarditis. This case was presented with acute hepatitis.

Case report: An eight years old girl was admitted to our hospital with fever, coryza, cough and fatigue. She was diagnosed as viral upper respiratory tract disease and followed without any medications. One week later she presented with jaundice, dark urine and abdominal pain. She was hospitalized with the diagnosis of hepatitis. Her blood tests were as follow: AST:468 U/L, ALT: 362 U/L, Total Bilirubine: 10,7 mg / dL, Direct Bilirubine: 10,7 mg / dL, GGT: 429 U/L, ALP: 1193 U/L. After three days maculopapular rash erupted from face to toe including her body and extremities. The rash was consistent with measles, rubella, scarlet fever, EBV and CMV infections. Her past history was unremarkable. She was vaccinated with 2 doses of M-M-R at 1 and 6 years of age. Viral serological tests were studied. Rubeola IgM proved to be 2,1 ISR (> 1,15 ISR is Pozitive ). Jaundice and rash disappeared within five days and liver enzymes and bilubulin levels reduced to normal.

Conclusions: Measles may appear with different clinical pictures in patients. Hepatitis is a very rare presentation of measles especially in vaccinated children.
A CASE REPORT SUGGESTING ROLE OF N ACETYL CYSTINE IN MANAGEMENT OF HEPATIC ENCEPHALOPATHY DUE TO WILSONS DISEASE

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Background: Management of hepatic encephalopathy in children remains supportive. Use of N-acetyl cystine (NAC) is recommended in case of drug induced liver failure and some other conditions. We could not find any study supporting or refuting role of NAC in hepatic encephalopathy due to Wilson’s disease.

Case Report and Results: An 8 year old male child with hepatic encephalopathy grade II, who was resuscitated in PICU, showed progressive worsening of encephalopathy with fall of GCS from 13 to 8 over a week on recommended supportive therapy. His viral markers for hepatitis A, B, C and E were negative. He was started on NAC infusion while serum ceruloplasmin level was awaited. Child showed progressive improvement even before Wilson’s disease was confirmed and he was started on D-penicillamine. Child showed consistent clinical and biochemical improvement and he was discharged after 4 weeks of hospital stay with GCS of 15. Presently under follow up, he has resumed his school and he is able to perform all age appropriate activities.

Discussion: Role of N-acetyl cystine in hepatic encephalopathy has not been established in cases other than drug induced liver failure but it seemed to be beneficial in this case. This case was unique as his encephalopathy progressed over one week in spite of standard supportive management and rapidly improved after starting NAC even before starting chelation therapy for Wilsons disease.

Conclusions: It will be interesting to further investigate role of NAC in management of hepatic encephalopathy due to Wilsons disease.

NEPHROTIC SYNDROME: PARANEOPLASTIC SYNDROME IN Hodgkin lymphoma

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Introduction: In 1922 Galloway described for the first time the combination nephrotic syndrome (NS) - extrarenal malignancies. Over the years, there were reported a limited number of cases which highlight the association between NS, as a paraneoplastic syndrome, and malignancies such as leukemia, Hodgkin and non-Hodgkin lymphomas and different carcinomas; it was observed, in particular, the association between minimal change nephropathy and Hodgkin lymphoma, these two entities occurring simultaneously or at distance from each other. The exact relationship between these two pathologies is still unknown, different theories are still to be verified.

Case Report: A school age, 9 years old boy, was hospitalized edema. The physical exam at admission revealed anasarca (ascites, pleural effusion, eyelid, scrotal, ankle edema), without any lymph node, liver or spleen enlargement. Laboratory investigations yielded: proteinuria (8.76 g/day), hypoproteinemia (4.1 g/dl), dyslipidemia and inflammatory syndrome. The renal biopsy was not performed at disease onset. Oral corticosteroid treatment was started according to the ISKDC protocol and the patient was discharged after 14 days, in remission. Fourteen days later the patient was re-hospitalized for nephrotic range proteinuria and laterocervical adenopathy. The lymph node biopsy sustained the diagnosis of Hodgkin lymphoma stage II A - nodular sclerosis and the Euronet PHL – C1 protocol, OEP/A cure was started. After the first chemotherapy course the proteinuria disappeared.

Conclusion: Considering that the NS can be a paraneoplastic manifestation of Hodgkin lymphoma, the careful clinical evaluation becomes mandatory in any child with NS and persistent proteinuria despite appropriate treatment protocol. The prognosis of these patients is good, the treatment of Hodgkin disease causing the disappearance of proteinuria.

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SIMULATION-BASED PEDIATRIC RESUSCITATION IN UNDERGRADUATE MEDICAL EDUCATION

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Introduction: Simulation-based medical education (SBME) has been increasing use to be the effective teaching tool in medical education. Due to the high risk nature of pediatric resuscitation, it is unlikely that clinical competence in this area can be developed by bedside teaching alone. Therefore, it may be beneficial to use SBME teaching of pediatric resuscitation in undergraduate students.
**Objective:** To evaluate the use of SBME teaching of pediatric resuscitation in medical students.

**Methods:** Group of sixth year medical student from pediatric rotation attends simulation session from March to February 2014. The session has 30 minutes of skill teaching: Pediatric Basic Life Support and Pediatrics Advanced Life Support. Then followed by 20 minutes of case simulation and 10 minutes of debriefing. The course was evaluated by self-evaluation and program evaluation questionnaires.

**Results:** A total of 132 medical students attend the simulation sessions. Almost of them were very valuable learning experience 123/132 (93%) students. There was 117/132 (89%) felt that the scenarios was realism and appropriate for the level of learner. The summarized and debriefing of the session very useful 121/132 (92%) and have more confidence to apply the knowledge in the future 115/132 (87%) students. They have add up some positive feedback, the session facilitate critical thinking and decision making, more engage and benefit than traditional learning as the lecture.

**Conclusions:** The medical students value pediatric resuscitation medical simulation highly as the learning strategy to enhancing critical thinking and decision making in the safe environment.

**B HEPATITIS: WHEN THE INFECTION OCCURS DESPITE VACCINATION**

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**Introduction:** In Portugal the incidence of hepatitis B virus (HBV) is 0.36 % and decreasing, reflecting the successful introduction of the vaccine (with a response rate >90%) in the National Immunization Program. Although less common in children, the probability of infection becoming chronic is inversely proportional to the age of infection. Risk factors in this group age are distinct from the adult ones and include perinatal and parenteral exposures and living in the same household of infected people. However in 40 % of infected cases there are no identifiable risk factors.

**Case Report:** 5 year old boy, born and resident in Barreiro, with immunization for HBV, was brought to the emergency room with dark urine and sclerotic jaundice for about a week. Afebrile, with no change in stools, prostration or weight loss. Besides jaundice of the sclera, he has a palpable liver 1 cm below the costal margin. Analytically he presented microcytic-hypochromic anemia, direct hyperbilirubinemia (total bilirubin 6.3 mg/dL and direct 5.3 mg/dL), and elevated liver enzymes (AST 1689 IU/L and ALT 2211 IU/L). He was admitted with the diagnosis of acute hepatitis of probable viral etiology. Abdominal ultrasound showed homogeneous hepatomegaly. Screening of hepatotropic viruses revealed positivity only for Ab HBe and Ab Hbc (IgM). The cohabitant family was all screened and the older sibling, natural of Cabo Verde living in Portugal for less than a year, was infected with HBV (positivity for Ag HBs and Ag HBe).

**Conclusions:** We brought this case to enhance the possibility of infection even with adequate immunization and in low prevalence countries where globalization brings people from endemic countries on a daily basis. A universal immunization of the population, with verification of the immune status in risk groups, seems to be our best weapon for disease prevention.

**HODGKIN LYMPHOMA IN CHILDREN: STUDY OF 7 CASES**

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**Introduction:** Hodgkin’s lymphoma is an entity that is rarely found in children less than 15 years.

**Purpose:** The objective of our work is to study the epidemiological, clinical, therapeutic and evolutionary child’s Hodgkin lymphoma

**Materials and Methods:** A retrospective study of 07 cases of Hodgkin lymphoma collected in the hematology department of the Farhat Hached hospital of Sousse over a period of 6 years (2008-2013).

**Results:** The average age of our patients was 10.7 years with a sex ratio (M / F) of 2.5. The average time for consultation is 4.14 months. The presence of peripheral lymph nodes is the main reason for consultation. Five children have Hodgkin lymphoma nodular sclerosis type and for the other two it is Hodgkin lymphoma type mixed cellularity. At the end of staging, five children are classified evolved stage (III and IV) and two localized stage (II). Three children have signs of clinical progression (weight loss, fever, night sweats). Therapeutically, five patients received chemotherapy according to the Euronet protocol and a child received ABVD chemotherapy (6 course). Two of seven received in addition to chemotherapy radiotherapy in residual sites. The median survival was 28 months. The evolution is marked by the relapse in two cases. A patient is caught by second-line chemotherapy; it is still in remission. The other is still in progress despite third-line chemotherapy.

**Conclusions:** The main objective of the management of the child’s Hodgkin lymphoma is to limit the risk of long-term effects without compromising the excellent survival.
NEONATAL ACUTE MYELOID LEUKEMIA: THREE CASES REPORTS

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Introduction: Acute leukemia (AL) in newborn is rare and represents less than 1% of AL of children. On the opposite to older children in whom ecchymosis lesions (n= 1 case). Biologically, there was a leukocytosis with a rate of Gb > 100 000/mm3 in 2 cases and peripheral blasts were present was fever. The main clinical manifestations were respiratory distress (n= 2 cases), splenomegaly (n= 1 case), lymphadenopathy (n= 1 case) and ecchymosis lesions (n= 1 case). Biologically, there was a leukocytosis with a rate of Gb > 100 000/mm3 in 2 cases and peripheral blasts were present. They received chemotherapy according to the protocol ELAM 02. The outcome was favorable in one case (with a complete remission) and fatal for others.

Conclusions: Neonatal AL is a rare condition. It differs from AL of children by their clinical presentation (hepatomegaly, splenomegaly, meningeal involvement and more frequent skin disease), their biological presentation (leukocytosis forms) and the frequency of associated cytogenetic abnormalities. The prognosis is generally worse than in older children especially since it is still no therapeutic consensus.

ACUTE MYELOID LEUKEMIAS IN CHILDREN: A RETROSPECTIVE STUDY OF 36 CASES

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Introduction: Acute myeloblastic leukemia (AML) is a heterogeneous hematologic malignancy accounting for about 20 % of all acute leukemias in children and adolescents. Several clinical and biological prognostic factors have been identified to allow a better prognostic stratification of patients and therefore better treatment adjustments.

Purpose: The objectives of this study is to discuss and analyze the different prognostic factors influencing the survival of patients, report and analyze therapeutic results according to different prognostic groups while clarifying the impact of intensive chemotherapy and allogeneic HSCT in terms of survival, and finally propose a new protocol for treatment of AML children.

Materials and Methods: This is a retrospective study including 36 patients with an age ≤ 18 years with de novo AML treated with acute myeloblastic leukemia protocol of the Child and Adolescent (ELAM -02) and followed in the Farhat Hached hospital of Sousse over a period ranging from January 2002 to December 2011.

Results: The overall CR rate was 80.5 % (29 patients), CR was 90%, 87.5 % and 55.5 % respectively in the group favorable, intermediate and unfavorable. A significant relationship was found between the FC, sex, the rate of GB (> or ≤ 50 000/mm3) and platelet (> or ≤ 50 000/mm3). SG, SSR and SSE 2 years in the entire population were 54 %, 42 % and 40.6 %. The difference in terms of SG, SSR and SSE at 24 months according to the criteria clinico-biological state with statistically significant cytologic category. The study of the influence of cytogenetic prognostic groups on survival is a statistically significant difference (p = 0.008) between the ILI rates at 24 months of patients with a favorable karyotype (68%) and those with intermediate karyotype (56, 7%) and high risk (22 %) as for the influence of treatment response after 1 induction is a statistically significant difference (p = 0.004) in terms of SG.

Conclusions: Our results could be improved by a better prognostic stratification of our patients and therefore better treatment adjustments.

EARLY REVELATION OF CONGENITAL HYPOFIBRINOGENEMIA IN A TWO MONTH-OLD BABY BY CEREBRAL BLEEDING

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Introduction: Congenital fibrinogen deficiency is a rare bleeding disorder, affecting either the quantity (afibrinogenemia, hypofibrinogenemia) or quality (dysfibrinogenemia) of circulating fibrinogen. Though the patients with congenital afibrinogenemia are symptomatic since birth,
patients who have hypofibrinogenemia present late manifestations with trivial bleed. We report a congenital fibrinogen deficiency revealed by spontaneous cerebral bleeding in a two month old female infant

**Case report:** A two month-old girl presented to our pediatric department with seizure. In her history, an oozing of blood occurred in the umbilical site after birth. On admission, clinical findings revealed symptoms of seizure, fever of up to 38.5°C, and pallid skin. The baby was suffered from poor activity and drowsiness. Neurologic examination showed the presence of a tense anterior fontanelle, decreased Muscle tone and strength. Rest of the systemic examination was unremarkable. Lumbar puncture showed homogeneous bloody cerebrospinal fluid (CSF), but no growth was seen in CSF culture. emergency computed tomography of the brain showed intraventricular massive hemorrhage, intracranial hemorrhage around the right caudate nucleus and quadri-ventricular hydrocephalus arising to cerebral herniation. blood tests showed a hemoglobin concentration of 7,9g/Dl, white blood cell count of 17800/mm3  and platelet count of 234×103 cells/l. The screening coagulopathy showed prolonged Activated Partial Thromboplastin Time at 69'' and decreased Prothrombin Time at 54% as well as increased INR. Fibrinogen degradation product was negative and liver function tests were normal. The specific-factor assays showed plasma levels of fibrinogen was 0,5g/L which confirms this diagnosis of hypofibrinogenemia. The baby was transfused with fresh frozen plasma and erythrocyte suspension and she has undergone a ventriculoperitoneal derivation. However, she developed meningitis after neurological surgery and died secondary to septic shock.

**Conclusions:** Congenital disorders of fibrinogen have been attributed to chromosome 4 (q26-q28) with hypofibrinogenemia commonly occurring in heterozygous and afibrinogenemia in the homozygous. Most cases of hypofibrinogenemia (heterozygous) are asymptomatic. However, they could show variable phenotypic expression and present with bleed of varied severity.

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**THE EPIDEMIOLOGIC CONSIDERATIONS ABOUT VISCERAL LEISHMANIASIS IN ALBANIA**

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**Background:** The aim of this study was to analyze some epidemiologic features of visceral Leishmaniasis in Albanian children.

**Methods and Materials:** There were included 1576 children aged 0-14 years in this study, all admitted and treated for visceral leishmaniasis since 1994-2014 in Pediatric Infectious Disease Service. We studied the distribution of the disease according to annual incidence, age, gender, living area.

**Results:** The results are shown in the following table.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>NEW CASES</th>
<th>GENDER</th>
<th>LIVING AREA</th>
<th>AGE (in years)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Female</td>
<td>Male</td>
<td>Rural</td>
</tr>
<tr>
<td>1994</td>
<td>76</td>
<td>32(42%)</td>
<td>44(58%)</td>
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<tr>
<td>1995</td>
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<td>2014</td>
<td>29</td>
<td>11(38%)</td>
<td>18(62%)</td>
<td>6(21%)</td>
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<tr>
<td>TOTAL</td>
<td>1576</td>
<td>675</td>
<td>901</td>
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</tr>
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</table>
Introduction: Congenital toxoplasmosis (CT) can elicit severe damage to several organs, especially the eye, and may be manifested at birth or later. The diagnosis of ocular toxoplasmosis is based primarily on the characteristic ocular findings and supportive serologic evidence. It is generally well agreed on that macular lesions, involving the optic nerve, and cases with intense inflammation should be treated.

Objective: To describe a clinical presentation and reviews the current management options of reactivation of ocular inflammation, typical of a toxoplasmosis with evidence of congenital infection, a satellite scar or an inactive lesion in the other eye, in which antibodies titer remain as a chronic infection.

Material and methods: This is a retrospective case report of a 13 years old boy presented with complaints of decreased vision in his left eye for 4 weeks and did not refer clearly for the vision in the right eye. Examination of the fundus oculi noticed cicatricial chorioretinal macular area in the right eye with visual acuity 1/10, and active chorioretinitis, preretinal and intraretinal hemorrhage in the left eye with visual acuity 1/10. The serology resulted positive for Toxoplasma gondii. He was treated at our Pediatric Department of Infectious Disease Service with classic therapy: Pyrimethamine, Sulfadiazine with supplemental leucovorin (folinic acid) to minimize pyrimethamine associated hematologic toxicity and oral steroids for 6 weeks.

Results: The fact that our patient presented initially with such severe anterior inflammation suggests that this was a longstanding infection. This is further supported by the results of his blood work, IgG for Toxoplasma gondii resulted positive, 650. The patient had presumed ocular toxoplasmosis from his mother, which also resulted IgG positive for Toxoplasma gondii. The therapeutic outcome showed improvement in acute case, treatment resulted in reduced retinal area of left eye, without cicatricial signs and no vitreal inflammation with a visual acuity of left eye 10/10, and no change in visual acuity of right eye 1/10 with cicatrical central area. Monitoring of blood counts showed no bone marrow suppression after therapy.

Conclusions: This case shows a severe presentation of a relatively well known clinical entity. Although ocular toxoplasmosis may be self-limiting in immunocompetent individuals, prompt diagnosis and proper management can improve visual outcome. In a case such as this, it is important to utilize the current management options to fight the infection and as well to control inflammation and minimize long-term ocular damage. Pyrimethamine, Sulfadiazine, in combination with corticosteroids is the first choice in the treatment of acute phase of chorioretinitis from Toxoplasma Gondii.

A CASE REPORT OF LONGSTANDING TOXOPLASMOSIS CHORIORETINITIS

Raida Petrela, Eli Kallfa, Emajola Brahimiari
1Faculty of medicine, University Hospital Center Mother Theresa, Albania; 2University Hospital Center Mother Theresa, Albania

Autism from impaired connectivity to impaired communication: an upward/downward causality model in ASDS

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1University of Aegean, Product and Systems Design Engineering, Greece; 2University Hospital “Attikon”, Ilion Socio-Medical Center, Greece

Introduction: ASDs are increased today and their etiopathogenesis is unidentifiable.

Purpose: It is essential for new aspects of the disorder to emerge.

Material and Methods: Literature review

Results: AUTISM AS A “DISCONNECTION SYNDROME”: Genetics studies indicate that 80% of high-risk genes for autism influence neural induction, neuroblast maturation and synapse development. These discoveries point to synapses as possible sites of autism’s origin and talk about synaptic pathophysiology of autism. Synapses, however, are specialized contact sites where neurons communicate with one another. Main abnormality in autism is the altered levels of neurotransmitters (serotonin, dopamine, epinephrine, norepinephrine, acetylcholine, GABA and glutamate). Neurotransmitters are communication molecules that are released at the presynaptic compartments and ensure contact between different brain regions and between brain and other systems. Neuroimaging and electroencephalographic studies have shown that connectivity patterns (anatomical, functional) are altered in autism. The deficits in autism are a result of a reduced integration of information due to this underconnectivity and impaired communication between different brain regions.

Gastrointestinal problems have been implicated in autistics. Disruption of tight junctions, which leads to intestinal hyperpermeability, is the possible mechanism. Also, there is a link between gut symptoms severity and autism severity, which gives more evidence for the gut-to-brain connection. So, it is proposed impaired systems (brain-gut) connectivity in autism. Sleep problems are common in autistics. Sleep is required...
Abstracts

to maintain an optimal set point of brain connectivity and consolidation and optimization of synaptic circuits. So, sleep dysfunction in autism reflects the impaired connectivity that governs the disorder. Use of oxytocin in autism shows encouraging improvements in social cognition and attachment. Oxytocin, “the peptide that binds”, has been recognized as implicated in social development, affiliative behaviors and social bonds. Subsequently, oxytocin in autism represents the “disconnection effect” of the disorder. IMPAIRED COMMUNICATION IN AUTISM: Main clinical feature of the autism is the communication impairment. Autistics don't interact with others, are no more open systems, so it is noticed an interruption in circular causality and feedback between the organism and its environment.

Conclusions: In autism, the impaired connectivity at lower-scale (genetic, molecular etc) refers to impaired communication at the higher-macroscopic scale (phenotype). When cells-molecules-networks-systems in the brain or elsewhere cease to connect, individual has ceased to communicate. This process constitutes the downward/upward causation, according to systems theory. If it is so, autism therapy has two components: the reestablishment of synaptic and receptors abnormalities and altered signaling in combination with behavioral therapy.

ID: 270 / POST2: Presentation 20
POSTER
Topics: Rare Diseases
Keywords: Nontuberculous mycobacteria, Mycobacterium Gordonae

MYCOBACTERIUM GORDONAE IN AN IMMUNOCOMPETENT PATIENT: A CASE REPORT

Catarina Liz, Ana Catarina Carvalho, Ana Lúcia Cardoso, Teresa Pena, Sara Soares, Joaquim Cunha, Susana Lira
Centro Hospitalar Tâmega e Sousa, Portugal

Introduction and Purpose: Mycobacterium Gordonae is classified as a nontuberculous mycobacteria and is found in soil, tap water and unpasteurized milk. Disease caused by this microorganism is rare as it is the least pathogenic mycobacteria and its isolation is often associated with immunosuppression or contamination. Diagnosis is based on respiratory symptoms, radiologic and microbiologic evidence. The most effective treatment regimen is yet to be established and should be maintained until resolution of symptoms.

Materials and Methods: Case report of a 15-year-old patient with pulmonary disease caused by Mycobacterium Gordonae.

Results: A healthy 15-year-old male was admitted in the ER with cough, sputum, night sweats, intermittent fever, shortness of breath, anorexia and weight loss (6.6%) in the last two months. He presented a normal physical examination with no signs of respiratory distress. The chest X-ray revealed a hypo transparency with undefined borders in the left hilar region. Blood test showed white blood cell count of 11600/mm³ with 78.8% neutrophils and 15.1% lymphocytes, c-reactive protein of 17.6 mg/L and sedimentation rate of 20 mm. He was treated with a 5-day course azitromycin with partial remission of symptoms. Tuberculin skin test was non-reactive, PCR for mycoplasma pneumonia and sputum for acid-fast bacillus smear were negative. After 24 days Mycobacterium Gordonae was isolated in the spectrum of symptoms. The patient was then medicated with isoniazid, rifampin and pirazinamid for 2 months with complete remission of symptoms.

Conclusions: Mycobacterium Gordonae is frequently an innocuous specimen but its identification should not be promptly interpreted as contamination. Although rare, this microorganism can cause symptomatic disease in both immunocompetent and immunosuppressed individuals.

ID: 276 / POST2: Presentation 21
POSTER
Topics: General Pediatrics
Keywords: Lyme disease, neuroborreliosis, demyelinating neuropathies, Guillain-Barré syndrome

NEUROBORRELIOSIS AND GUILLAIN-BARRÉ SYNDROME: COULD BE THE SAME DISEASE?

Ana Margarida Garcia, José Pedro Vieira, Maria João Brito
Hospital Dona Estefânia, Portugal

Introduction: The classic triad of neurologic Lyme disease (LD) is lymphocytic meningitis, cranial neuropathy and radiculoneuritis. These neuropathies are commonly related to multifocal axonal process although rare cases of demyelinating neuropathies have been reported in Lyme disease.

Case Report: A four-year-old boy presented with a 10-day history of lower extremity weakness and pain, followed by urinary and fecal incontinence. Five-day before the onset of symptoms was diagnosed a bacterial tonsillitis. At physical examination, global symmetrical weakness, bilateral lower limb areflexia, Gower’s sign and neck stiffness was observed. Lumbar puncture revealed a cerebrospinal fluid (CSF) with albuminocytologic dissociation, with a normal white blood cell count (0.8/µL) and an elevated protein concentration (211.2 mg/ dl). Electromyogram was compatible with demyelinating neuropathies, suggesting Guillain-Barré syndrome, so immunoglobulin (lg) was promptly instituted without significant clinical improvement. The additional investigation revealed positive lgG Western blot to Borrelia burgdorferi in serum and positive IgM ELISA in CSF. VDRL was negative. The microbiologic tests of feces and CSF were negative too, such as immunologic study, including anti-GQ1b. Ceftriaxone was instituted during 14 days, with clinical improvement. At 5-week follow-up the neurologic examination was almost normal, with a slower recovery of the autonomic dysfunction.

Conclusions: This case report highlights an atypical presentation of neuroborreliosis. The presence of CSF Borrelia burgdorferi antibody, which is highly specific for nervous system LD, associated with clinical improvement with antibiotic therapy suggest an infectious rather than an immune-mediated pathogenesis. In patients with GB-like symptoms and demyelinating neuropathies, LD should be considered, in order that adequate treatment can be instituted to maximize recovery.
**Poster session 2**

**ID: 218 / POST2: Presentation 22**
**POSTER**
Topics: Neonatology
Keywords: 6 hour CRP, GBS EONS screening

**IS IT SAFE TO ABANDON 6-HOUR CRP TEST FOR NEONATES AT RISK OF GROUP B STREPTOCOCCUS?**

Kiera Goo, Luke Williamson, Simon Hauser
Northern Health, Australia

**Introduction:** Group B Streptococcus (GBS) is a significant cause of early onset neonatal sepsis (EONS). GBS is contracted from colonised mothers during vaginal delivery. Intrapartum prophylactic antibiotic therapy is standard care in GBS positive mothers. However, for at risk neonates born to GBS unknown or GBS positive mothers with ‘inadequate’ prophylaxis, there is no established international best practice guideline for evaluation or management. Guidelines including NICE and CDC advise laboratory evaluation, including a FBE and CRP. However there is difficulty interpreting the asymptomatic neonatal CRP as the significance and correlation of a raised CRP with infection, remains unclear. Additionally, a recognised value at which treatment should be commenced remains undetermined. Investigations for asymptomatic neonates are often low yield, expensive, cause suffering for the neonate, and disrupt maternal-infant bonding. Two recently published studies propose that laboratory tests held no advantage over close clinical examination alone. The original protocol in the metropolitan hospital in which this study was conducted, required 6- and 30-hour CRP levels. If the CRP was >10 mg/L regardless of clinical evaluation, the infant received a minimum of 48 hours of broad-spectrum antibiotics.

**Purpose:** How useful is the 6-hour CRP to direct clinical management in term neonates who are at risk GBS EONS?

**Material and Methods:** A retrospective review of medical records of all neonates >37 weeks conducted in a district Victorian hospital from December 2013 – May 2014. Inclusion criteria were: neonates born >37 weeks, maternal GBS status unknown or positive at the time of delivery with inadequate antibiotic prophylaxis (NICE). Exclusion criteria included other risk factors for sepsis (PROM, maternal fever, chorioamnionitis) or <35 weeks.

6-hour CRP and blood culture results were recorded.

**Results:** Of 149 neonates who fitted the inclusion criteria, 98% had a 6-hour CRP <0.7mg/L. There were 3 cases with an elevated 6-hour CRP (16.4, 24.6 and 33.9mg/l). All 3 cases had already been admitted to Special Care Nursery for at least one abnormal clinical sign. None of the 149 neonates had any blood culture growth at 48 hours.

**Conclusions:** A 6-hour CRP is not an independently useful measure to direct management in neonates at risk of GBS sepsis. Clinical observation and regular recording of vital signs were more effective in guiding management. Our department has since abandoned the 6-hour CRP policy, with no adverse outcomes after six months.

**ID: 232 / POST2: Presentation 23**
**POSTER**
Topics: Neonatology
Keywords: genotype, hospital-acquired infection, newborn infant, rotavirus

**CLINICAL CHARACTERISTICS OF HOSPITAL-ACQUIRED ROTAVIRUS INFECTION IN NEWBORN INFANTS AND GENOTYPE ANALYSIS**

Chun Soo Kim, Ga Hyun Lee, Jae Hyun Park, Dong Seok Kim, Sang Lak Lee
Keimyung University School of Medicine, Korea, Republic of (South Korea)

**Introduction:** The data on hospital-acquired rotavirus infection (Ha-RVI) in young infants are limited.

**Purpose:** This study was undertaken to investigate the epidemiology, clinical features and genotypes of Ha-RVI in newborn infants.

**Materials and Methods:** A retrospective analysis of the medical records was conducted in a university hospital over a 3-year period (2011-2013). The enrolled cases were distributed as HA and community-acquired (CA) infection according to where RVI occurred.

**Results:** Among 122 patients, HA and CA infection were 75 (61.5%) and 47 (38.5%), respectively. HA-RVI was more frequently developed in the cold (Nov-Apr) than in the hot-season (May-Oct) (P<0.001). The attack rate of HA-RVI was 1.3%, and the incidence density was 1.45 per 1,000 hospitalized days. There were some differences in perinatal characteristics between HA- and CA-groups, but both groups had similar clinical and laboratory findings of RVI. In detailed study for the infants with HA-RVI, clinical problems related to RVI including feeding intolerance, bloody stool, and necrotizing enterocolitis were more common in preterm than term infants (P<0.05). The genotype of rotavirus was identified in 111 cases (91.0%), and all of them were G4[P6] strain.

**Conclusions:** Clinical symptoms and outcomes of HA-RVI differed in both preterm and term infants, and the G4[P6] was an exclusive strain of neonatal RVI regardless of where the infection occurred and clinical findings of patients.
PERICARDIAL EFFUSION ASSOCIATED WITH PERIPHERALLY INSERTED CENTRAL VENOUS CATHETER IN A PRETERM INFANT

Chun Soo Kim, Yun Jung Kim, Jae Hyun Park, Hee Jung Choi, Sang Lak Lee
Keimyung University School of Medicine, Korea, Republic of (South Korea)

Introduction: Peripherally inserted central venous catheters (PICC) are used to provide vascular access for parenteral nutrition and medications in preterm infants.

Purpose: The placement of PICC may cause various complications, and rarely life-threatening problems such as pericardial effusion associated with malposition of catheter tip.

Case: A female infant, weighing 1,130 g at 34 weeks of gestation, was delivered by Cesarean section. The baby was presented hypoglycemia and feeding intolerance in early phase of life, so a PICC (Premicath, Vygon, Germany) was inserted through right antecubital vein on day 5. After insertion, the catheter with partly looped tip was located in the right atrium on chest X-ray, and the PICC was withdrawn by 2 cm to place catheter tip at outside of the heart. One day later, the following X-ray showed advanced cardiomegaly and the catheter of which distal part being passed through the right atrium, into the right ventricle. Although vital signs of the patient were stable, echocardiographic findings showed marked pericardial effusion. Emergent pericardiocentesis was performed and aspirated 3 mL of yellowish fluid. Microbiologic studies of the exudates were unremarkable. The catheter tip was located in the superior vena cava with additional withdrawing by 2 cm. After intervention procedures, the cardiac problems were subsided in 4 days later. The baby achieved full enteral feeding on day 20, and then the PICC was removed. She was discharged from the hospital on day 48, and her neuroradiologic images were unremarkable.

Conclusions: The tip of PICC should not be placed in the right heart in preterm infants to prevent pericardial effusion resulting in tamponade.

EFFECTIVENESS OF MLPA METHOD IN GENETIC DIAGNOSIS OF SEGAWA DISEASE

Haruo Shintaku, Hiroki Fujikoa, Satoshi Kudo, Tomoko Sakaguchia, Takashi Hamazaki
Osaka City University Graduate School of Medicine

Introduction: Segawa disease, called dopa-responsive dystonia (DRD), is induced by a genetic disorder that affects the regulation of neurotransmitters in children. Hemizygous gene mutations in guanosine triphosphate cyclohydrolase I (GTPCH) have been reported in Segawa disease, therefore genetic analysis of GTPCH gene (GCH1) has been essential for the molecular diagnosis. However a few patients with Segawa disease who do not find the gene abnormality by direct sequence method have also been reported.

Purpose: To detect the gene mutation in patients with Segawa disease who have not found abnormalities by the direct sequencing method, we applied MLPA (Multiplex Ligation-dependent Probe Amplification) method which can detect large deletions. We characterized pteridines profiles in these patients.

Patients and Methods: We diagnosed 25 patients with Segawa disease by clinical symptoms and pteridines analysis in cerebrospinal fluid (CSF). Among 25 patients with Segawa disease, 22 patients were confirmed genetically by direct gene analysis of GCH1. In the other 3 patients we performed gene analysis by using MLPA methods.

Results: All 25 patients with Segawa disease showed significantly lower levels of both neopterin (N:6.59±4.09 nM) and biopterin (B:5.20±2.85 nM) in CSF than controls (N:19.5±2.10, B:23.7±8.50 nM). Twenty-two patients diagnosed by direct sequencing method had a point mutation or two bases deletion in one allele and the other 3 patients had a large deletion in their one allele which detected by MLPA method. Both N and B levels in CSF were significantly lower in the former 22 patients (N:6.92±3.92, B:5.58±2.74 nM) than in the latter 3 patients (N:1.98±0.94, B:1.67±1.46 nM).

Conclusions: All patients with Segawa disease had very low N and B levels in CSF. Especially patients who had large deletion showed significantly lower levels of both N and B in CSF than the other patients who had a point mutation or 2 bases deletion. Patients with Segawa disease who had very low N and B levels in CSF should be considered for GCH1 gene analysis by MLPA method.
FDA, they are actively prescribed in pediatric pathology. Several randomized controlled trials and meta-analyses suggest that probiotics are effective in prevention and treatment of acute gastroenteritis, which led to the 2014 ESPGHAN recommendations. Relying on personal clinical experience, physicians recommend probiotics, prebiotics and symbiotics in a much wider range of conditions. To date, probiotics have only been marketed to the public as either foods or dietary supplements which might have caused an increased usage in infants, often physician prescription.

**Purpose:** The aim of our study is to evaluate the usage of probiotics, prebiotics and symbiotics in infants admitted in our clinic, according to present approved recommendations.

**Materials and Methods:** We carried out a prospective study during one month, for which we have randomly selected 102 infants with age between 1 and 12 months, with no chronic pathology, admitted to “Grigore Alexandrescu” Emergency Children’s Hospital from Bucharest, Romania. Data were collected using a questionnaire, which was completed by the physician.

**Results:** More than half of the infants (58.8%) received probiotics, prebiotics or symbiotics in the first year of life, 32.36% before the age of 1 month. From the infants that used such supplements 85% received probiotics, 13.3% prebiotics and 23.3% symbiotics. Mothers administered probiotics either for prevention in 50.1% infants (23.52% during the first month of life) or treatment of gastrointestinal conditions (31.4% for infantile colic and only 3.9% for acute diarrhea). L. reuteri was the most used strain (85.36%). In 88.3% of cases these supplements were prescribed by a physician or a pharmacist. Approximately 7% of mothers do not know what probiotics are, even though they have administered them to their infant. The usage of probiotic, prebiotic and symbiotic supplements was positively correlated with mothers from urban environment (p=0.05), with higher educational levels (p<0.01), higher family income (p=0.01) and who perceive probiotics as dietary supplements (p<0.05).

**Conclusions:** The findings show that half of the infants in our study who received probiotics, prebiotics or symbiotics were younger than 1 month. Despite ESPGHAN guidelines, mothers have administered probiotics for prevention of various gastrointestinal conditions. Promoting probiotics, prebiotics and symbiotics as dietary supplements may increase their usage in infants although there is not clear evidence about their benefits.

**ID:** 255 / POSTER: Presentation 27
**POSTER**
**Topics:** General Pediatrics
**Keywords:** Pantoea spp, bacteriemia

**COMMUNITY-ACQUIRED PANTOE A SPP BACTERIEMIA IN A CHILD**

**Teresa Pena**, Ana Lúcia Cardoso, Sara Soares, Catarina Liz, Gisela Silva, Ana Reis, Joaquim Cunha, Sandra Teixeira
Centro Hospitalar Tamega e Sousa, Penafiel, Portugal

**Introduction and Purpose:** Pantoea spp is a gram-negative rod which belongs to the Enterobacteriaceae family. It is commonly isolated from water, soil, sewage, seeds, vegetables, feculent material and foodstuffs. It is reported as both commensal and opportunistic pathogen of animals and humans. It is an infrequent pathogen in humans and is commonly associated with penetrating trauma by plant material and catheter-related bacteremia.

**Materials and Methods:** Case report of a Pantoea spp bacteriemia in a healthy child.

**Results:** A 13-month-old male infant (29 weeks ex-premature) was admitted to the Emergency Department with vomiting, diarrhea and fever in the 3 previous days. On physical examination he had signs of moderate dehydration. Blood test revealed an elevation of the C-reactive protein (14.2mg/L) and no abnormalities in the hemogram or ionogram. Stool analysis for rotavirus was positive and culture was negative. Blood culture was ongoing. IV fluids were initiated with clinical improvement and the patient was discharged after 24 hours.

The next day, Pantoea spp was isolated in blood cultures and the infant was reevaluated. On that day, the patient’s mother reported a minor trauma in the lower limb while playing barefoot on the grass, 5 days previous to the symptom onset. Antibiotic therapy was started with oral cotrimoxazol with a good outcome.

**Conclusions:** The findings show that half of the infants in our study who received probiotics, prebiotics or symbiotics were younger than 1 month. Despite ESPGHAN guidelines, mothers have administered probiotics for prevention of various gastrointestinal conditions. Promoting probiotics, prebiotics and symbiotics as dietary supplements may increase their usage in infants although there is not clear evidence about their benefits.

**ID:** 264 / POSTER: Presentation 28
**POSTER**
**Topics:** Rare Diseases
**Keywords:** alpha1-antitrypsine deficiency, liver disease, infants

**LIVER DISEASE IN ALPHA-1-ANTITRYP SIN DEFICIENCY IN INFANTS**

**Tudor Lucian Pop**¹, **Alina Grama**¹, Ana Stefanescu², Adrian Trifa³, Mariela Militaru⁴
¹2nd Pediatric Clinic, University of Medicine and Pharmacy Iuliu Hatieganu Cluj-Napoca, Romania; ²Genetic Center, Cluj-Napoca, Romania

**Introduction:** Alpha-1-antitrypsin (A1AT) deficiency is an autosomal recessive disorder, rarely reported, with unknown prevalence in Romania. Severe liver manifestations in neonates could be misleading to a biliary atresia diagnostic.

**Purpose:** The aim of our presentation is to reveal the clinical features of liver disease in infants with A1AT deficiency.
Material and Methods: We report four infants with A1AT deficiency diagnosed during the last year, using A1AT serum level and genetic analysis of S,Z alleles (PCR – restriction fragment length polymorphism).

Results: Four infants were finally diagnosed with AAT deficiency: (1) Male, 2 weeks old, with neonatal hepatitis, decreased A1AT level and normalization of transaminases in one month (genotype SZ); (2) Female, 2 months 2 weeks old, with severe neonatal cholestatic hepatitis, normalization of transaminases and bilirubin, persistent mild cholestasis at age of 7 months (genotype ZZ); (3) Female, 2 months 2 weeks old, with severe neonatal cholestatic hepatitis, CMV infection, septic arthritis, normal level of AAT (during septic episode, decreased after), with only slight elevated transaminases, no cholestasis at age of 9 months (genotype ZZ); (4) Male, 8 months, hepatitis syndrome revealed during an infectious episode with decreased AAT level, with normalization of transaminases at age of 18 months (genotype heterozygote Z, determination of a possible second mutation is needed).

Conclusions: Liver disease in A1AT deficiency is variable, rare in neonates (10% in the literature), but could be severe at presentation. Even that the majority of infants recover clinically, the progress to fibrosis, cirrhosis requiring liver transplantation is possible and impose an attentive follow-up.

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ID: 272 / POST2: Presentation 29
POSTER
Topics: Rare Diseases
Keywords: Dandy Walker variant, rehabilitation

REHABILITATION OF A CHILD WITH DANDY-WALKER VARIANT: A CASE STUDY

Andrea Polovina1, Svjetlana Polovina1, Romana Gjerga Juraški2, Tomislav Đapić1, Jelena Oreški1, Tamara Crnković1
1Polyclinic for physical medicine and rehabilitation “Prof.dr.sc.Milena Stojcevic Polovina”, Croatia; 2Children’s Hospital Srebrnjak, Croatia; 3University Hospital Centre Zagreb, Croatia

Introduction: Dandy Walker variant (DWV) has been used to describe a combination of cystic dilatation of the fourth ventricle and hypoplastic cerebellar vermis in the absence of an enlargement of the posterior fossa. Recently it has been advocated to abandon this terminology altogether because inconsistencies in its definitions prevent comparison of diagnosis and outcomes. There are reports that indicate that more than half of children with DWV develop normally, but there are also reports that all children with DWV experience neurological sequelae.

Purpose: to emphasize the importance of the rehabilitation in the children with DWV.

Materials and Methods: In this study we present a child with DWV.

Results: A child presented in this study was born with 38 weeks of gestation. After birth he showed signs of perinatal infection and oxygen support and antibiotics were included. However, he recovered very fast so that on the fifth day of life he was discharged. At the age of 14 months due to delayed psychomotor development, child was examined by neuropsychiatrician. Initially, all radiographic findings were normal and his developmental delay was attributed to perinatal asphyxia. When seen at our Polyclinic at the age of 15 months, he was able to sit independently, but he was very unstable and with severe kyphosis. He was crawling, getting into standing while holding onto object; all activities were unsecure, unstable and often with falling. His next visit was 2 years later, still unable to stand without support. This time, he was included in intensive rehabilitation program at our institution, with parents being trained into performing therapy at home. A child had several hours of therapy, on daily bases, performed by his parents. At the age of 4, brain MRI was repeated and this time DWV was diagnosed. In rehabilitation, the main problems were severe hypotonia, poor balance and motor planning. Attempting to walk, he would usually fall without any defensive reaction. Therefore, we had to find alternative for poor balance and motor planning and that was done through verbal guidance and visual orientation. After five years of intensive rehabilitation, he started to walk independently, at this moment, in secure, home environment.

Conclusions: Due to very poorly defined outcomes of children with DWV it is very hard to determine influence of rehabilitation on outcome in cases as this one. However, we strongly suggest intensive rehabilitation to be continuously performed in order to achieve maximal ability of the child. Also, it should not be terminated too soon, as we can see in this case, when the beginning of the independent walking occurred at the age of 8.

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ID: 212 / POST2: Presentation 30
POSTER
Topics: General Pediatrics
Keywords: leptoospirosis, hepatitis, medullary hypoplasia, parvovirus B19

HEPATITIS FOLLOWED BY MEDULLARY HYPOPLASIA – WAS LEPTOSPIRA THE CULPRIT?

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Introduction: Leptospirosis is a spirochetal zoonosis which clinical presentation varies from subclinical to potentially fatal Weil’s disease. Pancytopenia has been reported as a rare presentation of severe leptospirosis in adult patients.

Clinical Case Report: A 12 year-old healthy boy developed fever, progressive asthenia and non-productive cough. Two weeks later, jaundice and hepatomegaly became apparent. Laboratory workup showed total bilirubin 16.34mg/dL, direct bilirubin 14.07mg/dL, aspartate aminotransferase 1566 U/L, alanine aminotransferase 2360 U/L, g-glutamyltransferase 318U/L. Blood cell count, electrocardiography and chest X-ray were normal. Abdominal ultrasound revealed homogeneous hepatomegaly with no signs of biliary...
Poster session 2

dilatation or space occupying lesions. Leptospira were visualized in the urine by dark field microscopy and confirmed by real-time polymerase chain reaction (rt-PCR). The patient was treated with penicillin, with progressive clinical and liver function tests recovery. At four weeks after the onset of jaundice, progressive asymptomatic pancytopenia was noted (minimum values of haemoglobin 10.7g/dl, leucocytes 1.100/μL, neutrophils 400/μL, platelets 61 x 10⁹/L). Direct coombs test was negative. Autoimmune screening was normal. A bone marrow biopsy showed medullary hypoplasia (20-30% cellularity). Marrow culture was negative. DNA from parvovirus B19 was detected in medullary blood by rt-PCR. The patient showed progressive spontaneous recovery of blood cell count with full recovery at 6 months after presentation.

**Conclusions:** Although pancytopenia has been reported in severe acute leptospirosis, in the reported case it is more likely to represent hepatitis associated medullary hypoplasia (immunological mediated marrow failure that follows the development of hepatitis). A concurrent parvovirus B19 infection may also have been implicated.

ID: 211 / POST2: Presentation 31
POSTER
Topics: Neonatology
Keywords: neonatal seizure, electroencephalogram, phenobarbital

**NEONATAL SEIZURES - EXPERIENCE OF A NEONATOLOGY UNIT IN A SECONDARY HOSPITAL**

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**Introduction:** Neonatal seizures are relatively common. They occur in an estimated incidence of 80-120 cases per 100,000 newborns (NB) per year. Its presence is often the first sign of neurological dysfunction, and they can be a long-term predictor of cognitive and/or developmental impairment.

**Materials and Methods:** Retrospective observational study of NB admitted in a neonatology unit of a secondary hospital between October 2011 and December 2014. The study was conducted reviewing medical records and data was treated with SPSS Statistics software 20.0 ©.

**Results:** Nine NB were included, 5 were male. Median gestational age was 40 weeks and none of the cases showed family history of epilepsy. Caesarean section was performed in 6 and 3 required resuscitation manoeuvres. The type of crisis varied from subtle events to partial complex seizures, and recurrence within 24 hours was found in 55.6% of patients. Eight NB underwent an electroencephalogram (EEG), in which 62.5% had pathological findings. Six were treated with anti-epileptics (phenobarbital in 100% of cases) and 3 needed to be transferred to a tertiary hospital. It was possible to identify a triggering factor in 4 of the cases (two cases of hypoxic-ischemic encephalopathy, one of sepsis and other of structural brain damage).

**Conclusions:** The most prominent feature of neurological dysfunction in the neonatal period is the occurrence of seizures. Neonatal seizures can be subtle and are often not translated at the EEG due to brain immaturity. In NB, the primordial objective is aetiology identification since it can determine a particular therapy and limit the dysfunction of the central nervous system.

ID: 227 / POST2: Presentation 32
POSTER
Topics: Rare Diseases
Keywords: Neonatal Palliative Care, Neonatal bone fractures, Genes COL1A1 e COL1A2, Pulmonary Hypoplasia, Osteogenesis imperfecta

**NEWBORN WITH MULTIPLE BONE FRACTURES**

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**Introduction:** Osteogenesis imperfecta (OI) is a genetic disease of the connective tissue, characterized by bone fragility, skeletal deformities and variable short stature. The typical phenotypic variability contributes to it’s classification in different subtypes.

**Clinical case:** We present a case of a female newborn, irrelevant family history and non-consanguineous parents, with the prenatal diagnosis of intrauterine growth restriction and short lower limbs. She was born at 39 weeks by caesarean section with low Apgar score (3/9/10), requiring resuscitation and hospitalization in Neonatal Intensive Care Unit for hypoxemia and deformity of the face and limbs. She presented multiple bone fractures on radiography and normal phosphocalcic balance and hydroelectrolytic equilibrium. At the fourth day of live, she was transferred to tertiary hospital for proper orientation. Temporary invasive ventilation was needed for sedoanalgesia. The skeletal radiography confirmed multiple fractures in the skull, ribs and limbs in various stages of consolidation. Given the clinical diagnosis of OI type IIA and after multidisciplinary assessment, palliative care was initiated until the death of the newborn on the 29th day of life. Histopathological examination revealed severe pulmonary hypoplasia and skeletal osteochondrodysplasia (lethal form) with multiple fractures, many occurring during intrauterine life, pointing to the diagnosis of OI type II (Silence classification). No mutations in the COL1A1 and COL1A2 genes was found. Pending genetic study of recessive mutations.

**Conclusions:** The authors emphasize the rarity and severity of the OI type II. Its treatment is merely supportive, due to pulmonary hypoplasia and multiple fractures. The mutational study is important for genetic counselling.
PROSPECTIVE STUDY ON SLEEP HABITS IN CHILD AND ADOLESCENT

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Introduction: The importance and impact of sleep on health have earned in recent times, greater attention and is a growing concern of parents. Sleep plays a key role in biological point of view, but also emotional, familial and social.

Purpose: Evaluate and characterize the sleep habits of children and adolescents. Relate the pattern of sleep and school performance of children and adolescents.

Material and Methods: We applied an inquiry by direct interview to the children and adolescents aged between 10 and 18 years in children’s health surveillance consultation, during the period of three months.

Results: 113 children/adolescents responded to the inquiry, with median age of 13 years (minimum: 10 and maximum: 17) and most respondents were female (62.8%). The median of sleep duration in both sexes was 8 hours. Only 15 (13.3%) fulfilled the 10-11 hours recommendation of sleep. 68% of children/adolescents who were retained in same school year at least one time, said sleeping less than 8 hours/day (p<0.001). About 88% with self-assessment of school performance as “bad” reported a sleep duration less than 8 hours, while this proportion was 11.8% among those who reported a self-assessment “very good” (p=0.001). Children/adolescents with shorter sleep duration had a probability of a bad/ reasonable academic performance about 30 times higher compared to those with longer sleep duration. Children/adolescents sleep duration less than 8 hours/day had a 5.5 times more likely of ever having been retained in the same school year compared with that presented sleep duration bigger or equal than 8 hours. We found statistically significant differences (p<0.001) between sleep duration and difficulty falling asleep, the occurrence of nightmares and sleep in class.

Conclusions: The results show us that it is important act on prevention, alerting parents, children and adolescents to the importance of good sleep hygiene, promoting healthy sleep patterns.

THE VALUE OF MULTIPLE TESTING MODALITIES IN DETERMINING SEVERITY OF RESPIRATORY INFECTIONS IN YOUNG CHILDREN

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Introduction: Serious respiratory infections in children are difficult to determine from symptoms and signs alone. Fever is, both a marker of insignificant viral infection, as well as more serious bacterial pneumonia. Radiological findings are often viewed as the “gold standard” for diagnosing bacterial pneumonia, however variability in chest radiograph interpretation amongst practitioners is a well-recognised obstacle. Therefore, seeking markers of invasive disease in respiratory illness has been a goal of Paediatricians for many years.

Purpose: The evidence for multiple testing methods to detect invasive bacterial respiratory infections is unclear. The purpose of this study was to evaluate whether biomarkers may contribute to the diagnosis of serious bacterial respiratory infections in febrile young children as opposed to the current “gold standard” clinical and radiological findings.

Materials and Methods: This study involved a prospective, cross-sectional study over a 1 year period and included all documented febrile patients (with an axillary temperature ≥ 38 °C) that presented to Steve Biko Academic Hospital under 5 years of age, with signs and symptoms of pneumonia and generalised sepsis. A data collection table was used on which to enter all clinical, laboratory and radiological findings. A data collection table was used on which to enter all clinical, laboratory and radiological findings in order to assess the correlation between clinical findings and biomarker testing.

Results: A total of 63 patients were enrolled; 35 males (56%). The mean age was 14 months (1- 53 months). No statistical significance was found between degree of fever and duration of stay (p=0.123). No statistical significance was found between duration of stay and white cell count (WCC) (p=0.511), C-reactive protein [CRP] (p=0.263), procalcitonin (p=0.392) or blood culture (p value =0.589). No statistical significance was found between WCC, CRP or nasopharyngeal aspirate multiplex PCR and positive chest radiograph findings (p=0.313; 0.368; 0.686, respectively).

Conclusions: Biomarkers and degree of fever do not predict source or severity of infection nor duration of hospitalisation. Multiple testing modalities (including biomarkers and radiographs) have not been shown to be effective in predicting serious bacterial respiratory tract infections in febrile children under 5 years. This study suggests that clinical diagnosis and suspicion of severity should be considered the “gold standard”, and is as valuable as extensive testing in guiding appropriate management of serious respiratory illnesses in febrile children.
Conclusions

Lipid profile (total cholesterol, LDL and HDL cholesterol and triglycerides) were performed on each subject and control. The mean values for total cholesterol, LDL cholesterol and triglycerides when compared with those on first line drugs (zidovudine, stavudine and nevirapine or efavirenz).

The mean triglyceride level was significantly higher in the HIV Positive subjects compared to the controls (83.4±42.8mg/dl vs 67.8±36.4mg/dl respectively, P value = 0.006). HIV Positive subjects on second line drugs (zidovudine, lopinavir and abacavir) had significantly higher ratio was significantly higher in the subjects when compared with their controls (0.47±0.04 vs 0.45±0.05 respectively, P value = 0.0009). The mean age of the subjects and their controls was 10.5±3.2 years with an equal number of males and females. The waist to height ratio was significantly higher in the HIV Positive subjects compared to the controls (0.47±0.04 vs 0.45±0.05 respectively, P value = 0.0009). The mean triglyceride level was significantly higher in the HIV Positive subjects compared to the controls (83.4±42.8mg/dl vs 67.8±36.4mg/dl respectively, P value = 0.006). HIV Positive subjects on second line drugs (zidovudine, lopinavir and abacavir) had significantly higher mean values for total cholesterol, LDL and HDL cholesterol and triglycerides were performed on each subject and control.

Materials and Methods: This is a preliminary report on 100 of the 150 HIV Positive children recruited for the study. It is a case-control study with the subjects recruited from the Paediatric Infectious Disease Clinic (PIDC) of the AIDS Prevention Initiative in Nigeria/President’s Emergency Relief Plan for AIDS Relief (APIN/PEPFAR) initiative located at the Jos University Teaching Hospital (JUTH) in Jos, Plateau state. The subjects were recruited by systematic sampling technique and written and informed consent obtained. Apparently healthy age- and sex-matched controls will be recruited from the Paediatric Outpatient Department (POPD) of JUTH and nearby schools. The height, weight, waist and hip circumference were measured using standard protocols and the waist to height ratio calculated. A fasting blood glucose (FBS) and lipid profile (total cholesterol, LDL and HDL cholesterol and triglycerides) were performed on each subject and control.

Results: The mean age of the subjects and their controls was 10.5±3.2 years with an equal number of males and females. The waist to height ratio was significantly higher in the subjects when compared with their controls (0.47±0.04 vs 0.45±0.05 respectively, P value = 0.0009). The mean triglyceride level was significantly higher in the HIV Positive subjects compared to the controls (83.4±42.8mg/dl vs 67.8±36.4mg/dl respectively, P value = 0.006). HIV Positive subjects on second line drugs (zidovudine, lopinavir and abacavir) had significantly higher mean values for total cholesterol, LDL and HDL cholesterol and triglycerides were performed on each subject and control.

Conclusions: Cardiovascular disease risk is significantly higher in HIV-Positive children on HAART containing protease inhibitors.
Abstracts

and sharing of information about eCMO with GPs, community professionals and schools is essential. Parents of all children supported on eCMO from December 1992 - April 2013 in Great Ormond Street Hospital nHS received after hospital discharge.

To study the experiences of parents of ECMO survivors in order to understand the problems their children faced and the support they had received, their concerns and satisfaction with follow-up arrangements.

ID: 296 / POSTER: Presentation 38

POSTER

Topics: Chronic Conditions

Keywords: ECMO, extracorporeal membrane oxygenation, follow-up

CHILDHOOD ECMO SURVIVORS: PARENTS HIGHLIGHT NEED FOR STRUCTURED FOLLOW-UP AND SUPPORT AFTER HOSPITAL DISCHARGE

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Objectives: To study the experiences of parents of ECMO survivors in order to understand the problems their children faced and the support received after hospital discharge.

Methods: Parents of all children supported on ECMO from December 1992 - April 2013 in Great Ormond Street Hospital for Children NHS Trust (GOSH) and currently alive were sent an anonymised postal questionnaire, comprising forced choice questions, rating scales and free text. Questions focused on the follow-up their child had received, their concerns and satisfaction with follow-up arrangements.

Results: Parents of 89/473 (21%) survivors (n= 51 supported for neonatal respiratory failure, 19 paediatric respiratory failure, 5 neonatal cardiac failure, 14 paediatric cardiac failure) responded. Sixty-six (74%) reported that they had developmental concerns about their child, the most common being speech and language (35%), concentration (31%) and movement or physical difficulties (30%). Sixty-five (72%) and 30 (34%) parents replied that they had contact with GOSH in the first year and thereafter respectively. Fifty-seven (65%) and 30 (34%) parents replied that they had contact with GOSH in the first year and thereafter respectively. Fifty-seven (65%) and 30 (34%) parents replied that they had contact with GOSH in the first year and thereafter respectively.

Conclusion: Children, who have received ECMO, need structured follow-up after discharge to identify any early developmental issues, to intervene and refer early, and provide support to families. The GOSH 1 year follow-up clinic was perceived by parents to be useful. Education and sharing of information about ECMO with GPs, community professionals and schools is essential.
**Poster session 2**

**ID: 280 / POSTER: Presentation 39**

**POSTER**

**Topics:** Chronic Conditions, Life Satisfaction

**Keywords:** adolescents, chronic condition, life satisfaction, health complaints

**THE BEHAVIORAL PATTERNS, SELF-REPORTED HEALTH AND LIFE-SATISFACTION IN ARMENIAN ADOLESCENTS WITH CHRONIC CONDITIONS: DATA OF HEALTH BEHAVIOUR IN SCHOOL-AGED CHILDREN (HBSC) 2013/2014 SURVEY**

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**Introduction:** Unhealthy habits and risky behaviors are among common problems faced by adolescents today. HBSC Survey was conducted in Armenia in 2013/2014, in collaboration with international research network with the aim to study behaviours of adolescents, reveal key determinants impacting health, assess role of family, socioeconomic, and other factors.

**Purpose:** to study health behaviors of schoolchildren and association between presence of chronic illness, self-reported health and well-being.

**Materials and Methods:** Cross-sectional study, based on standard methodology and anonymous questionnaire. Probability proportional-to-size method for sampling: 82 schools were selected countrywide; final sample consisted of 3679 11- and 15-year-old children. Additional survey included 1436 students of 17 y. from 64 high schools. Data was analyzed on SPSS soft.

**Results:** Main sample included 48% boys, 52% girls; mean age=13.2±1.6 y. According to results, Armenian adolescents have specific behavioral patterns: low prevalence of substance use, good communication with parents and friends, school liking, high life satisfaction. Notable is prevalence of physical fights among boys. Multiple complaints more than once a week were present in 30% of 11-15 and 45% of 17-year-olds. Despite these complaints, students reported overall good health status and life satisfaction. Long-term illness/disability was reported by 6% of 11-15 and 7.9% of 17-year-olds. Analysis showed that children with long-term illness were much more likely to have signs of depression, assess poorly own health and quality of life. Frequent psychosomatic health complaints were mentioned by half of children with chronic illness, more in girls. 65.7% of children with long-term illness vs. 80% of healthy peers reported high life satisfaction (≥8 out of 10). Children with chronic diseases more often participated in physical fights and were bullied. Besides they had worse academic achievement, felt more pressured by schoolwork and reported less school liking in all age groups. Up to 20% of children with chronic conditions reported uneasiness to talk to their parents and less emotional support in family. The similar findings were among 17-year-olds with chronic illness; nevertheless, older students reported lower life satisfaction (mean=7.5), less school liking and rare cases of fighting with significant gender differences.

**Conclusions:** Children with chronic diseases have much in common and at the same time are different from their healthy peers. Issues revealed require future analysis and targeted interventions, particularly psychosocial support from specialized services and school staff to improve well-being and quality of life of children with special needs.

**ID: 248 / POSTER: Presentation 40**

**POSTER**

**Topics:** Chronic Conditions, Rare Diseases

**Keywords:** lymphadenopathy, systemic lupus erythematosus, anti double stranded antibodies, antinuclear antibodies, pedal edema

**GENERALISED LYMPHADENOPATHY AS A PRESENTING FEATURE IN PEDIATRIC SYSTEMIC LUPUS ERYTHEMATOSUS**

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**Introduction:** Lymphadenopathy is a common presenting complaint in pediatrics. When it is extensive and followed by fever, the differential diagnosis are tuberculosis, acute lymphoblastic leukemia and lymphoma in Southeast Asian population. Lymphadenopathy is one of the signs of Systemic lupus erythematosus, SLE a multisystem chronic autoimmune disease, but rarely a presenting manifestation of this disease in the absence of other major manifestations. So we report a case of SLE who initially presented with lymphadenopathy.

**Purpose:** To include lymphadenopathy as a sole manifestation of Systemic lupus erythematosus, this should be included in the differential diagnosis of extensive generalized lymphadenopathy.

**Case Report:** A 10 years old Pakistani boy presented with 3 months of generalized lymphadenopathy involving cervical, supraclavicular, axillary and inguinal lymph nodes followed by high grade fever for 1 month with night sweats, he was investigated for tuberculosis, prevalent in this region. During which period he developed erythematous, maculopapular, non photosensitive rash on face, arms and legs, leaving behind hyper pigmented skin (fig.2). This brought SLE in the differential diagnosis. His further investigations revealed a high Erythrocyte sedimentation rate (ESR) of 103 with normal C-reactive proteins, positive antinuclear antibodies and anti double stranded antibodies of 251.6 iu/ml. During this course of his illness, he started developing other features of SLE as well, including pedal edema and oral painless ulcers (fig.1). His urine complete examination revealed albuminuria and microscopic hematuria, however his renal functional profile was in the normal range. His serum total proteins and serum albumin were 5.3gm/dl and 2.0gm/dl respectively. Treatment with oral steroids led to considerable improvement in patient’s condition (fig. 3).

**Results:** Pediatric systemic lupus erythematosus can present with extensive generalized lymphadenopathy as a first manifestation of disease.

**Conclusions:** This case of lymphadenopathy brings our attention to the fact that although a very rare presentation, SLE should always be in the list of differential diagnosis for extensive lymphadenopathy in pediatrics and investigated thoroughly even in populations where tuberculosis is the first differential diagnosis for enlarged lymph nodes. It should also be taken in account that presentation of SLE needs to be further studied in different ethnic groups.

**Acknowledgment:** I am grateful to Dr. Hayatullah for support and encouragement. I am also thankful to patient Bilal for the cooperation.
**Poster session 2**

**ID: 196 / POST2: Presentation 41**
**POSTER**
Topics: Chronic Conditions, General Pediatrics
Keywords: West Syndrome, Down Syndrome, Treatment

**TREATMENT OF WEST SYNDROME IN CHILDREN WITH DOWN SYNDROME: A CASE REPORT**

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**Introduction:** West Syndrome is characterised by spasms, EEG dysrhythmia and developmental delay. It is a severe form of epilepsy which constitutes the most frequent seizure type in children with Down syndrome.

**Purpose:** Outcomes in this subgroup depend on early diagnosis and initiation of medication. Studies show infants treated within 2 months of diagnosis have lower epilepsy relapse rates and are less likely to suffer developmental problems.

**Materials and Methods:** After consent was gained, information was obtained from medical notes, EEG reports, and family discussions. A review was performed with articles identified from PubMed using the terms “West Syndrome”, “Down Syndrome”, and “Treatment”. Results: West Syndrome in a 13-month-old girl with Down syndrome. At 6 months parents witnessed flushing, rapid eye movements and flexor spasms. The episodes lasted 1 minute, occurred infrequently and stopped. Initial impression was colic. The patient was re-referred at 13 months for repetitive flexor spasms. Episodes were not posture or feeding related. On examination, the child had Down syndrome facies with severe hypotonia. She was unable to focus on faces, had not started smiling and could not hold objects. EEG showed dysrhythmia, characteristic of West Syndrome.

The patient was treated with ACTH with prednisolone. Repeat EEG 2 weeks later showed persistent dysrhythmia and Vigabatrin was started. At 18 months old, her developmental delay was categorised as severe but her spasms had improved. A literature review has shown a shorter treatment lag for infantile spasms is associated with earlier response and reduced effects on development in Down syndrome.

**Conclusions:** The case highlights the difficulties in early diagnosis of infantile spasms and the consequences this can have on development. The importance of early treatment in West Syndrome appears key and raises the question as to whether there is an intervention, which could aid earlier diagnosis.

**ID: 184 / POST2: Presentation 42**
**POSTER**
Topics: Chronic Conditions
Keywords: Complementary Alternative medicine, Children, Pediatric oncology

**USE OF COMPLEMENTARY/ALTERNATIVE MEDICINE IN CHILDREN WITH CANCER**

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**Introduction:** The use of complementary/alternative medicine (CAM) is increasing.

**Purpose:** The aim of the study was to characterise the use of CAM among patients in a pediatric hematology oncology department in Turkey.

**Materials and Methods:** All patients’ (aged 0–18 years, out-patients or hospitalised) parents at Mersin University Hospital, Pediatric Hematology and Oncology Unit during a 3 month period in 2012 were asked to participate. In total, 85 (92%) parents participated. The data were collected by a questionnaire with face to face interview with the parents.

**Results:** Of all patients, 40% had tried CAM at least once. There was no correlation between use of CAM and sociodemographic features (gender, age or if the patient was outpatient or hospitalised etc.). Among CAM, herbal medicine and religious implementations was the most popular. The most frequent users of CAM were patients with constipation and pain symptoms. Majority of the parents reported positive effects and had no side-effects from CAM they used. Few parents (%8.2) reported CAM as ineffective.

**Conclusions:** Pediatric health care team should be aware of patients’ / parents’ CAM use. Pediatric patients’ parents should be informed about their use of complementary/alternative medicine with regard to side-effects.

**ID: 165 / POST2: Presentation 43**
**POSTER**
Topics: Chronic Conditions, Medicine use, General Pediatrics, Rare Diseases
Keywords: Familial Mediterranean Fever, MEFV gene mutation, myalgia, erythematous rashes

**AN UNUSUAL PRESENTATION OF FAMILIAL MEDITERRANEAN FEVER: A CASE REPORT**

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**Introduction:** Familial Mediterranean Fever (FMF) is an autosomal recessive multisystemic disorder characterized by recurrent episodes of fever and polyserositis. The involvement of skin, muscle, pericardium, and tunica vaginalis are less frequently seen. Here we report a patient predominantly presenting with prolonged fever, diffuse erythematous rashes and myalgia.
Case report: A 6-year old girl was admitted to emergency department with fever and abdominal pain. Physical examination was normal. She was diagnosed with urinary tract infection and oral antibiotic therapy was administered. Two days later she was hospitalized with symptoms of fever, diffuse severe myalgia, bilateral cervical lymphadenomegaly, abdominal pain, buffiur edema, neck stiffness and diffuse erythematous skin rash (Figure 1,2,3). Family history except consanguineous marriage was unremarkable. Erythrocyte sedimentation rate (ESR: 64 mm/h) and CRP (19 mg/dl) levels were elevated. Serum creatinine, CPK, transaminases, alkaline phosphatase, uric acid, total protein and albumin levels were all within normal limits. ANA, anti dsDNA, p-ANCA, and c-ANCA were negative. Serology for EBV, CMV, mycoplasma, HCV, HIV, TORCH and parvovirus were negative. Abdominal ultrasonography and echocardiography were normal. Blood, urine, cerebrospinal fluid and throat cultures were sterile. Hemophagocytosis and malignancies were not detected in bone marrow aspiration which was consistent with autoimmune inflammation. Although the patient was treated with intravenous antibiotics for 6 days, the presence of fever and severe myalgia with normal CPK, creatinine (acute phase 1), which was considered an allergic reaction secondary to antibiotics. Despite antihistaminic administration the body temperature was 39ºC, we considered antibiotic fever and antibiotics were suspended. Then he developed generalized maculopapular rash and oral test was administered. The clinical and radiological findings were improved within 10 days. On the 12th of day of hospitalization, the patient was discharged on the 10th day after appearing eruptions he was discharged. on the second day, the symptoms disappeared and treatment continued with 2 mg/kg/day methylprednisolone. She improved clinically and was discharged with oral prednisolone on the 7th day of the steroid treatment. Prednisolone was gradually stopped in 1 month. FMF gene analyses were performed but it resulted in 2 months, as heterozygous V726A mutation. Detailed history showed that she had recurrent attacks of arthralgia, fever, abdominal pain during previous years. She was started on colchicine treatment. Mutational analysis of the MEFV gen from her brother and father demonstrated heterozygous V726A mutation.

Conclusions: Pediatricians should be aware that prolonged fever, severe myalgia and diffuse erythematous rashes may be the first manifestations of FMF, detailed history and FMF mutation analysis should be performed in such patients especially among individuals of Mediterranean descent.

A CASE REPORT OF DRUG REACTION WITH EOSINPHILIA AND SYSTEMIC SYMPTOMS (DRESS) SYNDROME ASSOCIATED WITH CEFOTAXIME AND CLINDAMYCIN USE IN A 6 YEAR OLD BOY

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Introduction: Drug reaction with eosinophilia and systemic symptoms (DRESS) syndrome is a rare, potentially life threatening idiosyncratic drug reaction presenting with extensive rash, fever, lymphadenopathy, hematologic abnormalities (eosinophilia and/or atypical lymphocytosis) and internal organ involvement. A long latency period (>2-3 weeks) between initiation of the drug and onset of symptoms helps distinguish it from simple allergic drug reactions.

Purpose: Although it has been described in association with more than 50 drugs, to the best of our knowledge cefotaxime was not reported previously in children and clindamycin was reported only in a few adults. In this report, we aimed to present a child with DRESS syndrome developing after cefotaxime and clindamycin treatment.

Case report: A 6 years old boy was admitted to our clinic for fever and cough. The diagnosis of the left lower lobe pneumonia and pleural effusion was made. Parenteral cefotaxime and clindamycin treatment were started, the patient improved clinically and discharged on the 7th day with oral amoxicillin clavulanate. After four days he was re-admitted with fever and cough. Chest X-ray revealed the left lower lobe pneumonia and pleural effusion. We considered pneumonia unresponsive to oral antibiotics, on the12th day cefotaxime and clindamycin treatment was administered. The clinical and radiological findings were improved within 10 days. On the 12th of day of hospitalization, the body temperature was 39ºC, we considered antibiotic fever and antibiotics were suspended. Then he developed generalized maculopapular rash and oral test was administered. The clinical and radiological findings were improved within 10 days. On the 12th of day of hospitalization, the patient was discharged on the 10th day after appearing eruptions he was discharged.

Conclusions: Pediatricians should be aware that prolonged fever, severe myalgia and diffuse erythematous rashes may be the first manifestations of FMF, detailed history and FMF mutation analysis should be performed in such patients especially among individuals of Mediterranean descent.

Case of mUnChaUsen by  proxy  syndrome in reCuRrent enCephalopathy  attaCks

Munchausen by Proxy Syndrome (MBPS) is a special child abuse. Family or guardian pretends as if the child has a disease or creates a disease. Death rate is 9-10%. A case diagnosed as MBPS and monitored with encephalopathy and recurrent sleep attacks is reported.
**Case Report:** A 5-year-old boy referred to our department with state of sleep lasting over a couple of days. Physical examination revealed state of stupor and pinpoint pupils. History revealed two similar attacks of loss of consciousness in the last five months for which he was hospitalized and treated for meningoencephalitis. Each time a lumbar puncture (LP) was applied resulting with normal cerebrospinal fluid (CSF) findings and the patient regained consciousness on the third day. Infection markers were negative, electrolytes, blood gas analysis and brain magnetic resonance imaging were normal. Ammonia and lactate levels were normal, LP was applied, empirical treatment of meningoencephalitis was initiated. CSF findings were normal. The patient had fever; hallucinations and agitation were monitored. Antibodies for autoimmune encephalitis were negative. Electroencephalography was applied to the patient with preconvulsive behaviour and state of sleep; epileptic encephalopathy was excluded. On the third day of admission the child was awake and conscious until the next day when loss of consciousness, flushing and tachycardia developed. The patient’s mother who was previously on psychiatric follow-up was referred to psychiatric evaluation which revealed tautums resulting in the patient’s abuse. Patient’s urine sample was examined for toxic metabolites and diazepam products were highly detected. Legal procedures were initiated with the diagnosis of MBPS. The patient was taken away from the mother and admitted to intensive care unit where he fully regained consciousness in twelve hours.

**Conclusions:** In MBPS, the child with “disease” is referred to the physician; the physician unintentionally join the scenario with unnecessary invasive examinations and prescriptions. LP was applied several times to exclude possible etiological causes of recurrent encephalitis, unnecessary and expensive further evaluations were carried out in both hospitals. In a research, anticonvulsant drugs were shown to be most frequent agents in MBPS cases and mothers mostly responsible. In our case, it seems most likely that the mother was responsible for the MBPS with a diazepam-like medication. Our case proves that when a patient has alternating consciousness and the etiological examinations are normal, MBPS should always be kept in mind.

**A CASE REPORT OF HYPOFIBRINOGENEMIA AND INTRA-ARTICULAR HEMORRHAGE INDUCED BY VALPROIC ACID**

Burcu Karakayali, Duygu Ozturk Ozdal, Ayse Yasar, Ahmet Sami Yazar, Sirin Guven, Ismail Islek
Department of Pediatrics, Umraniye Training and Research Hospital, Istanbul, Turkey

**Introduction:** Valproic acid (VPA) is commonly used in the treatment of childhood epilepsy. Bleeding and hematopoietic disorders including thrombocytopenia, abnormal platelet function, hypofibrinogenemia and decreased concentrations of protein C, factor VII and von Willebrand factor may occur after VPA administration. Although VPA associated coagulopathies are common, serious bleeding complications are rare. In the majority of studies, correlation between fibrinogen concentration and dose, blood levels, or duration of VPA therapy was not reported. We present a patient with hypofibrinogenemia, menometrorrhagia and hemorrhagic joint after treatment with oral VPA.

**Case presentation:** A 13-year-old girl was admitted to our clinic with swelling and pain of the right knee. The patient had a history of epilepsy for which she was on VPA monotherapy for last two years. Recently she had complaints of menometrorrhagia. Complete blood count and biochemistry tests were within normal limits. Knee ultrasound revealed minimal effusion. Arthrocentesis was performed and hemorrhagic fluid was observed. Coagulation functions were normal except for low fibrinogen levels (0 mg/dl). Blood VPA levels were within therapeutic range. Cryoprecipitate was administered to the patient. She had no prior history of bleeding except for her recent menometrorrhagia complaints. Family history of any bleeding disorders were negative as well. VPA induced hypofibrinogenemia was considered and VPA therapy was discontinued. At follow-up fibrinogen levels gradually increased to normal levels, clinical symptoms of bleeding were not observed again.

**Conclusion:** VPA is associated with a variety of idiosyncratic hematological effects including thrombocytopenia, inhibition of platelet aggregation and fibrinogen depletion. Among these effects the pediatricians are most commonly aware of VPA associated thrombocytopenia but less familiar to VPA associated hypofibrinogenemia. Even not severe, pediatricians should be aware of bleeding complications induced by VPA. We suggest that during treatment with VPA, platelet counts and coagulation tests should be carefully monitored.

**CHAOTIC AORTA !**

Nada Boutrid, Hakim Rahmoune, Belgacem Bioud
University of Setif-1, University Hospital of Setif, Algeria

**Introduction:** The bicuspid aortic valve and aortic coarctation are two relatively common but rarely spontaneously associated heart disease.

**Purpose:** We report the associated (and may be related) to aortic conditions and depicts possible outcome and hypothetical pathophysiology

**Materials and Methods:** A 3 year old boy is casually diagnosed with a bicuspid aortic valve associated with coarctation of the ascending aorta. He has neither dyspnea nor any cardiorespiratory sign; except a heart murmur. A full body malformation scan is negative. Prophylaxis is explained to the parents, he addressed the National Reference Center for possible heart disease of childhood surgical emergency programming

**Results:** The bicuspid aorta-coarctation is rare: 07% have a bicuspid aortic coarctation. The risk of expansion and dissection is then very high and requires surgery. The value of B-blockers and cardiac MRI is discussed.

**Conclusions:** The bicuspid aortic and coarctation are often regarded as localized lesions. More and more evidence about the possibility of a true arterial disease are emerging and require meticulous attention.
**Abstracts**

**Poster session 2**

**ID: 177 / POST2: Presentation 48**

**POSTER**

Topics: General Pediatrics

Keywords: HLA, related conditions, predictive value

**HLA RELATED DISEASES IN PEDIATRICS: A SINGLE CENTER EXPERIENCE**

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*University of Setif-1, University Hospital of Setif, Algeria*

**Introduction:** The HLA system, as described by Dausset, and the pioneer of predictive medicine. We expose his role in pediatric explorations through two patients

**Purpose:** We report a single center experience in HLA typing for several conditions: autoimmune, autoinflammatory, neurological.

**Materials & Methods:** A retrospective cohort of HLA typing applications for juvenile arthritis suspicions found one boy as HLA DR4 and 4 children with HLA B27. A 14 year old child is explored for partial villous atrophy with positive serology gliadin HLA typing is not found risk haplotype DQ2 / DQ8, releases the regime. A more exhaustive negative serology reinforces the HLA negative predictive value. An 8 year old boy has a Behçet’s disease, and HLA typing for B5 antigen is positive. A 13 year old girl was admitted for narcolepsy: several years of misdiagnosis, HLA then confirms the pathology

**Results:** The HLA system is associated with a set of diseases in varying degrees: negative predictive value is already registered since the 2000’s in the USA to rule out celiac disease; while its interest in spondyloarthritis B27 (+) makes the leitmotif of predictive medicine. Other applications for child health conditions (uveitis, IBD, diabetes, reactive arthritis) are increasingly recognized.

**Conclusions:** In pediatrics, HLA is a set of closely related genes and controlling the various stages of the immune response, is a treasure trove that must be ‘uncovered’.

**ID: 132 / POST2: Presentation 49**

**POSTER**

Topics: General Pediatrics

Keywords: acute gastroenteritis, serum electrolyte, serum bicarbonates, urea, metabolic acidosis

**FREQUENCY OF SERUM ELECTROLYTE PANEL ABNORMALITIES IN DEHYDRATED CHILDREN WITH ACUTE GASTROENTERITIS**

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¹University Clinical Centre of Kosovo, Prishtina; ²Department of Pediatrics, University Hospital Centre “Mother Teresa”, Tirana, Albania

**Background:** Acute gastroenteritis (AGE) is one of the most common diseases in children. It can cause a variety of fluid volume, acid-base and electrolyte abnormalities. The aim of the study was to describe the frequency of electrolytic abnormalities in children with acute gastroenteritis.

**Material and methods:** The study was performed at the Pediatric Clinic of the University Clinical Centre of Kosova. All children with acute gastroenteritis, who were between 1 month to 5 years without any underlying diseases were enrolled in the study. Historical data, physical examination, degree of dehydration, and all laboratory results were recorded.

**Results:** Two hundred children 1 month to 5 years, admitted to pediatric ward with diarrhea, vomiting or both were enrolled in the study. The mean age was 15.62±9.03 months (57.5% were male), half of them were less than 24 months old. Among the laboratory findings metabolic acidosis was present in 54 (27%) of the patients. Serum bicarbonates less than 15 mmol/L had 39 (19.5%) patients while base excess beyond -10 represented the most common individual serum electrolyte panel abnormality, occurring for 94 (47%) of patients. There were 36 (18%) patients with hypokalemia whereas hyperkalemia was present in 5 (2.5%). Elevated blood urea nitrogen levels occurred for 33 (16.5%) of patients. About 8 (4%) patients had hyponatremia whereas 4 (2%) had hypernatremia.

**Conclusion:** Metabolic acidosis and hypokalemia are common electrolyte abnormalities in children with acute gastroenteritis and dehydration, while base excess beyond -10 represented the most common serum electrolyte panel abnormality in the study.

**ID: 189 / POST2: Presentation 50**

**POSTER**

Topics: Life Satisfaction

Keywords: congenital cleft lip and palate children (CCLP), auditory function in different periods of childhood in patients operated on for CCLP in the first year of life

**STATUS OF AUDITORY FUNCTION IN DIFFERENT PERIODS OF CHILDHOOD IN PATIENTS OPERATED ON CONGENITAL CLEFT LIP AND PALATE IN THE FIRST YEAR OF LIFE.**

Elena Yurievna Radtsig¹, Alla Vladimirovnà Bogoroditskaya², Marina Evgen’evna Sarafanova², Andrey Georgievich Prityko²

¹Pirogov Russian National Research medical university, Russian Federation; ²Physician and Practical Center for Medical Care for Children with Craniofacial anomalies and Congenital diseases of the Nervous system;

**Introduction:** The frequency of children born with congenital cleft lip and palate (CCLP) is 0.6-1.7 cases per 1,000. Do patients with congenital cleft lip and palate, operated successfully in the first year of life need a ENT- doctor? Yes, of course, as ENT pathology ranks second in these
patients after maxillofacial disorders and its detection rate is not reduced after the surgery conducted on the CCLP. Various middle ear disease occur quite often accompanied by hearing loss and varying degrees of severity. Status of auditory function directly affects the speech and mental development of the child and, consequently, the quality of life and life satisfaction for patients and their families.

**Purpose:** Evaluate a state of auditory function in different periods of childhood in patients operated on for CCLP in the first year of life.

**Materials and Methods:** The study included patients operated on CCLP in the first year of life. Comprehensive survey included endoscopy of nasal cavity and nasopharynx, video otoscopy, tympanometry and transient evoked otoacoustic emissions and carried out all pre-preschool children (1 to 3 years) and preschool (3 to 5 years) periods. The results were compared and evaluated by us.

**Results:** Full re-examination took place on 28 patients (17 boys and 11 girls). The frequency of otitis media increased by 18% in pre-preschool period and 50% in pre-school. Complaints of hearing loss imposes 18% in pre-preschool, and 21% in the preschool period. As a result of tympanometry normal type (A) of the curve is fixed at 67.9% in pre-preschool, and only 18% of patients in the preschool period.

**Conclusions:** According to our data, the frequency of otitis media and conductive hearing loss increases with time after surgery. The above calls for dynamic monitoring of patients operated on for CCLP in the first year of life, in different periods of childhood.
<table>
<thead>
<tr>
<th>Speaker</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHLUWALIA, NAMANJEET</td>
<td>8,39</td>
</tr>
<tr>
<td>ALEMAN-DIAZ, AIXA</td>
<td>65</td>
</tr>
<tr>
<td>ALLEN, KATIE</td>
<td>9,42</td>
</tr>
<tr>
<td>BALTAG, VALENTINA</td>
<td>5,26</td>
</tr>
<tr>
<td>BORYS, JEAN MICHEL</td>
<td>8,15,39</td>
</tr>
<tr>
<td>BROOKS, FIONA</td>
<td>6,7,31,35,54,65,92</td>
</tr>
<tr>
<td>BUCKSCH, JENS</td>
<td>8,39</td>
</tr>
<tr>
<td>CASTLE, PHILIP</td>
<td>7,14,34</td>
</tr>
<tr>
<td>CAVALLO, FRANCO</td>
<td>7,35</td>
</tr>
<tr>
<td>COSMA, ALINA</td>
<td>6,30,51,65,84</td>
</tr>
<tr>
<td>DAUM, ROBERT</td>
<td>6,8,29,38</td>
</tr>
<tr>
<td>DE LOOZE, MARGARETHA</td>
<td>7,9,35,41</td>
</tr>
<tr>
<td>DUE, PERNILLE</td>
<td>7,33,46,67</td>
</tr>
<tr>
<td>EIDELMAN, ARTHUR</td>
<td>6,8,31,40</td>
</tr>
<tr>
<td>ELGAR, FRANK</td>
<td>5,26,65</td>
</tr>
<tr>
<td>FASTH, ANDERS</td>
<td>7,15,36</td>
</tr>
<tr>
<td>FELDER, TAMIIKA</td>
<td>7,34</td>
</tr>
<tr>
<td>FINN, ADAM</td>
<td>8,14,38,88</td>
</tr>
<tr>
<td>FITZGERALD, MICHAEL</td>
<td>8,40</td>
</tr>
<tr>
<td>GERBA, CHARLES</td>
<td>6,32</td>
</tr>
<tr>
<td>GOBINA, INESE</td>
<td>6,30</td>
</tr>
<tr>
<td>GODEAU, EMMANUELLE</td>
<td>7,13,46,62,65,67,130</td>
</tr>
<tr>
<td>GOH, LEANNE</td>
<td>9,42</td>
</tr>
<tr>
<td>GOLDBECK, LUTZ</td>
<td>7,35</td>
</tr>
<tr>
<td>GOUNARIS, ANTONIOS</td>
<td>8,50,51,65</td>
</tr>
<tr>
<td>GRIVEA, IOANNA</td>
<td>7,46,47,48,49,53,59,65</td>
</tr>
<tr>
<td>HANLEY, SHARON</td>
<td>7,34</td>
</tr>
<tr>
<td>HONKALA, SISKO</td>
<td>7,35</td>
</tr>
<tr>
<td>HOTZ, VALERIE</td>
<td>8,12,37</td>
</tr>
<tr>
<td>HUBLET, ANNE</td>
<td>9,41,65</td>
</tr>
<tr>
<td>INCHLEY, JOANNA</td>
<td>3,5,9,14,26,42</td>
</tr>
<tr>
<td>JOHNS, ALISON</td>
<td>8,9,28,43</td>
</tr>
<tr>
<td>KALLIS, SOPHIA</td>
<td>9,42</td>
</tr>
<tr>
<td>KALMAN, MICHAL</td>
<td>8,39</td>
</tr>
<tr>
<td>KELLY, COLETTE</td>
<td>6,29,47,50,70,83</td>
</tr>
<tr>
<td>KIPPS, COURTNEY</td>
<td>8,15,40</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>KLINGER, DON</td>
<td>5,28</td>
</tr>
<tr>
<td>KUNZ, BARBARA</td>
<td>5,27</td>
</tr>
<tr>
<td>LAVERY, CHRISTINE</td>
<td>8,37</td>
</tr>
<tr>
<td>LOOSEMORE, MIKE</td>
<td>8,15,39,40</td>
</tr>
<tr>
<td>MAUGHAN, ERIN</td>
<td>5,28</td>
</tr>
<tr>
<td>MCDONAGH, JANET</td>
<td>5,8,27,37</td>
</tr>
<tr>
<td>MICHE, COLIN</td>
<td>6,29</td>
</tr>
<tr>
<td>MOLCHO, MICHAL</td>
<td>5,28,47,50,70,82,83</td>
</tr>
<tr>
<td>MUELLER-NORDHORN, JACQUELINE</td>
<td>8,38</td>
</tr>
<tr>
<td>ORANJE, ARNOLD</td>
<td>5,6,15,27,32</td>
</tr>
<tr>
<td>PARKIN, DOUGLAS</td>
<td>8,9,43</td>
</tr>
<tr>
<td>PICKETT, WILLIAM</td>
<td>6,30,31</td>
</tr>
<tr>
<td>POLOVINA, SVETISLAV</td>
<td>5,28,62,126</td>
</tr>
<tr>
<td>RAMANAN, ATHIMALAIPET</td>
<td>6,7,8,15,32,36,37</td>
</tr>
<tr>
<td>RAMASWAMI, UMA</td>
<td>7,36</td>
</tr>
<tr>
<td>RAMIRO, LUCIA</td>
<td>7,34</td>
</tr>
<tr>
<td>READING, RICHARD</td>
<td>7,33</td>
</tr>
<tr>
<td>ROLAND, DAMIAN</td>
<td>6,30</td>
</tr>
<tr>
<td>SALLIS, BOB</td>
<td>7,8,15,39,40</td>
</tr>
<tr>
<td>SARGSYAN, SERGEY</td>
<td>5,26,27,49,63,77,131</td>
</tr>
<tr>
<td>SPINK, JAYNE</td>
<td>8,37</td>
</tr>
<tr>
<td>STEPHENSON, TERENCE</td>
<td>3,8,9,14,42,62,129,</td>
</tr>
<tr>
<td>STEVENS, GONNEKE</td>
<td>6,30,82</td>
</tr>
<tr>
<td>STRONSKI, SUSANNE</td>
<td>5,28</td>
</tr>
<tr>
<td>SURIS, JOAN CARLES</td>
<td>3,5,6,9,14,26,28,30,31,41,42</td>
</tr>
<tr>
<td>SYROGIANNOPoulos, GEORGE</td>
<td>4,6,8,14,29,38,65</td>
</tr>
<tr>
<td>TOOKEY, PAT</td>
<td>7,33</td>
</tr>
<tr>
<td>TROMPETTER, RICHARD</td>
<td>7,8,15,36,37</td>
</tr>
<tr>
<td>VAN GYSEL, DIRK</td>
<td>5,6,15,27,32,65,</td>
</tr>
<tr>
<td>VAN RANST, MARC</td>
<td>7,8,14,34,38</td>
</tr>
<tr>
<td>VAN'T HOFF, WILLIAM</td>
<td>7,36</td>
</tr>
<tr>
<td>VERITY, CHRISTOPHER</td>
<td>7,33</td>
</tr>
<tr>
<td>WALSH, SOPHIE</td>
<td>6,30,82</td>
</tr>
<tr>
<td>WHITEHEAD, ROSS</td>
<td>6,30</td>
</tr>
<tr>
<td>YALCIN, SIDIKA</td>
<td>7,35,48,74</td>
</tr>
</tbody>
</table>
## Authors Index

<table>
<thead>
<tr>
<th>Author</th>
<th>Paper</th>
<th>Session</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abdelgadir, Fayhaa Ahmed</td>
<td>181</td>
<td>PO1:25</td>
<td>53, 89</td>
</tr>
<tr>
<td>Abdelkafi, Mohamed</td>
<td>284</td>
<td>PO1:34</td>
<td>53, 89</td>
</tr>
<tr>
<td>Abi Fares, Georges</td>
<td>118, 125</td>
<td>OP2:6, OP5:1</td>
<td>47, 70, 50, 81</td>
</tr>
<tr>
<td>Abowweyere, Anierhe Jean</td>
<td>278</td>
<td>OP1:5</td>
<td>46, 66</td>
</tr>
<tr>
<td>Abroug, Saoussen</td>
<td>133, 268, 284, 219, 256</td>
<td>PO1:31, PO1:32, PO1:33, PO1:34, PO2:16, PO2:14</td>
<td>53, 89, 59, 113</td>
</tr>
<tr>
<td>Achour, Bechir</td>
<td>261, 256, 285</td>
<td>PO1:32, PO1:34, PO2:14, PO2:15</td>
<td>53, 89, 59, 113</td>
</tr>
<tr>
<td>Adah, Ruth</td>
<td>290</td>
<td>PO2:35</td>
<td>59, 113</td>
</tr>
<tr>
<td>Adnani, Nitish Basant</td>
<td>187, 283</td>
<td>PO1:17, PO1:23</td>
<td>53, 89</td>
</tr>
<tr>
<td>Alfonso, Joana</td>
<td>129, 131</td>
<td>OP3:4, OP3:7</td>
<td>48, 73</td>
</tr>
<tr>
<td>Alguir, Liza</td>
<td>141</td>
<td>PO1:43</td>
<td>53, 89</td>
</tr>
<tr>
<td>Ahmed, Wessam</td>
<td>139</td>
<td>OP6:1</td>
<td>51, 85</td>
</tr>
<tr>
<td>Ajmi, Bechir</td>
<td>286</td>
<td>PO2:13</td>
<td>59, 113</td>
</tr>
<tr>
<td>Ajmi, Houda</td>
<td>133, 261, 268, 284, 219, 256, 285, 286</td>
<td>PO1:31, PO1:32, PO1:33, PO1:34, PO2:16, PO2:14, PO2:15, PO2:13</td>
<td>53, 89, 59, 113</td>
</tr>
<tr>
<td>Akhenbekova, Aida</td>
<td>112, 114</td>
<td>PO1:27, PO2:4</td>
<td>53, 89, 59, 113</td>
</tr>
<tr>
<td>Akpnr, Namik Kimal</td>
<td>228</td>
<td>PO2:8</td>
<td>59, 113</td>
</tr>
<tr>
<td>Al-Shibli, Schahla</td>
<td>157</td>
<td>PO1:12</td>
<td>53, 89</td>
</tr>
<tr>
<td>Alansari, Khalid Mohamed</td>
<td>139</td>
<td>OP6:1</td>
<td>51, 85</td>
</tr>
<tr>
<td>Abayrak Kaymak, Deniz</td>
<td>156</td>
<td>PO1:13</td>
<td>53, 89</td>
</tr>
<tr>
<td>Albino-Teixeira, António</td>
<td>129, 131</td>
<td>OP3:4, OP3:7</td>
<td>48, 73</td>
</tr>
<tr>
<td>Aldea, Cornel</td>
<td>266</td>
<td>PO1:35</td>
<td>53, 89</td>
</tr>
<tr>
<td>Alegrete, Nuno</td>
<td>227</td>
<td>PO2:32</td>
<td>59, 113</td>
</tr>
<tr>
<td>Alexander, Saji</td>
<td>168</td>
<td>OP6:5</td>
<td>51, 85</td>
</tr>
<tr>
<td>Ahmamadi, Ahmed</td>
<td>288</td>
<td>PO1:48</td>
<td>53, 89</td>
</tr>
<tr>
<td>Alkasifoglu, Mujgan</td>
<td>156</td>
<td>PO1:13</td>
<td>53, 89</td>
</tr>
<tr>
<td>Al Kuwar, Mohamad</td>
<td>157</td>
<td>PO1:12</td>
<td>53, 89</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Author</th>
<th>Paper</th>
<th>Session</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alshmary, Budoor</td>
<td>288</td>
<td>PO1:48</td>
<td>53, 89</td>
</tr>
<tr>
<td>Alves, Rui</td>
<td>246</td>
<td>OP1:7</td>
<td>46, 66</td>
</tr>
<tr>
<td>Amir, Jacob</td>
<td>282</td>
<td>OP6:3</td>
<td>51, 85</td>
</tr>
<tr>
<td>Amorim, Marta</td>
<td>281</td>
<td>PO1:15</td>
<td>53, 89</td>
</tr>
<tr>
<td>Amrane, Mounira</td>
<td>172</td>
<td>PO1:46</td>
<td>53, 89</td>
</tr>
<tr>
<td>Anand, Chhitiz</td>
<td>245</td>
<td>PO2:9</td>
<td>59, 113</td>
</tr>
<tr>
<td>Andersen, Anette</td>
<td>235</td>
<td>OP1:3</td>
<td>46, 66</td>
</tr>
<tr>
<td>Angelova, Maria</td>
<td>254</td>
<td>PO1:10</td>
<td>53, 89</td>
</tr>
<tr>
<td>Arduç, Alçay, Ayfer</td>
<td>188</td>
<td>PO2:45</td>
<td>59, 113</td>
</tr>
<tr>
<td>Arduç, Ayfer</td>
<td>145</td>
<td>PO1:36</td>
<td>53, 89</td>
</tr>
<tr>
<td>Areias, José Carlos</td>
<td>129, 131</td>
<td>OP3:4, OP3:7</td>
<td>48, 73</td>
</tr>
<tr>
<td>Arillo Santillán, Edna</td>
<td>258</td>
<td>PO2:1</td>
<td>47, 70</td>
</tr>
<tr>
<td>Arora, Narendra</td>
<td>160</td>
<td>OP3:5</td>
<td>48, 73</td>
</tr>
<tr>
<td>Arpacik, Mehmet</td>
<td>159</td>
<td>PO1:39</td>
<td>53, 89</td>
</tr>
<tr>
<td>Ashkenazi-Hoffnung, Liat</td>
<td>282</td>
<td>OP6:3</td>
<td>51, 85</td>
</tr>
<tr>
<td>Ashrafzadeh, Sahar</td>
<td>208</td>
<td>PO1:16</td>
<td>53, 89</td>
</tr>
<tr>
<td>Aydogdu, Selime</td>
<td>135</td>
<td>PO1:38</td>
<td>53, 89</td>
</tr>
<tr>
<td>Azevedo, Ana</td>
<td>129, 131</td>
<td>OP3:4, OP3:7</td>
<td>48, 73</td>
</tr>
<tr>
<td>Author</td>
<td>Paper</td>
<td>Session</td>
<td>Page</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------</td>
<td>---------</td>
<td>------</td>
</tr>
<tr>
<td>Bellmenko, Vladislav Valerevich</td>
<td>130</td>
<td>PO2:5</td>
<td>59, 113</td>
</tr>
<tr>
<td>Ben Said, Nesrine</td>
<td>261, 256, 285</td>
<td>PO1:32, PO2:14, PO2:15</td>
<td>53, 89, 59, 113</td>
</tr>
<tr>
<td>Ben Youssef, Yosra</td>
<td>261, 256, 285, 286</td>
<td>PO1:32, PO2:14, PO2:15, PO2:15, PO2:13</td>
<td>53, 89, 59, 113</td>
</tr>
<tr>
<td>Ben Said, Nesrine</td>
<td>286</td>
<td>PO2:13</td>
<td>59, 113</td>
</tr>
<tr>
<td>Berde, Anselm S</td>
<td>287</td>
<td>OP3:3</td>
<td>48, 73</td>
</tr>
<tr>
<td>Bilavsky, Efraim</td>
<td>282</td>
<td>OP3:3</td>
<td>51, 85</td>
</tr>
<tr>
<td>Bingham, Verity</td>
<td>237</td>
<td>PO1:50</td>
<td>53, 89</td>
</tr>
<tr>
<td>Bloud, Belgacem</td>
<td>172, 289, 174, 177</td>
<td>PO1:46, PO1:45, 59, 113</td>
<td></td>
</tr>
<tr>
<td>Bischoff, Adrienne Rahde</td>
<td>160</td>
<td>OP3:5</td>
<td>48, 73</td>
</tr>
<tr>
<td>Bisi-onyemaechi, Adaobi, Ijeoma</td>
<td>198</td>
<td>OP3:2</td>
<td>48, 73</td>
</tr>
<tr>
<td>Bizo, Aurel</td>
<td>266</td>
<td>PO1:35</td>
<td>53, 89</td>
</tr>
<tr>
<td>Blake, Izsara</td>
<td>231, 237</td>
<td>PO1:49, PO1:50</td>
<td>53, 89</td>
</tr>
<tr>
<td>Blinka, Lukas</td>
<td>183</td>
<td>PO1:9</td>
<td>53, 89</td>
</tr>
<tr>
<td>Bode-Thomas, Fidelia</td>
<td>290</td>
<td>PO2:35</td>
<td>59, 113</td>
</tr>
<tr>
<td>Bogoroditskaya, Alla</td>
<td>189</td>
<td>PO2:50</td>
<td>59, 113</td>
</tr>
<tr>
<td>Vladimirovna</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bogzeanu, Iulia</td>
<td>123</td>
<td>PO2:10</td>
<td>59, 113</td>
</tr>
<tr>
<td>Boranbaeva, Riza</td>
<td>114</td>
<td>PO2:4</td>
<td>59, 113</td>
</tr>
<tr>
<td>Bourghella, Essia</td>
<td>133</td>
<td>PO1:31</td>
<td>53, 89</td>
</tr>
<tr>
<td>Boutrid, Nada</td>
<td>172, 289, 291, 174, 177</td>
<td>PO1:46, PO1:45, PO1:47, 59, 113</td>
<td></td>
</tr>
<tr>
<td>Bowling, Zara</td>
<td>196</td>
<td>PO2:41</td>
<td>59, 113</td>
</tr>
<tr>
<td>Boyd, Catriona Ann</td>
<td>244</td>
<td>PO1:6</td>
<td>53, 89</td>
</tr>
<tr>
<td>Bradley, Grace</td>
<td>242</td>
<td>OP1:9</td>
<td>46, 66</td>
</tr>
<tr>
<td>Bradshow, Lori</td>
<td>157</td>
<td>PO1:12</td>
<td>53, 89</td>
</tr>
<tr>
<td>Brahimi, Emarijola</td>
<td>103</td>
<td>PO2:18</td>
<td>59, 113</td>
</tr>
<tr>
<td>Bralic, Irena</td>
<td>180</td>
<td>PO1:22</td>
<td>53, 89</td>
</tr>
<tr>
<td>Brandão, Catarina</td>
<td>262</td>
<td>OP1:6</td>
<td>46, 66</td>
</tr>
<tr>
<td>Brindoza, Daniela</td>
<td>183</td>
<td>PO1:9</td>
<td>53, 89</td>
</tr>
<tr>
<td>Brites, Vera</td>
<td>282</td>
<td>OP1:6</td>
<td>46, 66</td>
</tr>
<tr>
<td>Brito, Maria João</td>
<td>251, 262, 212, 276</td>
<td>OP1:8, OP1:6, PO2:30, PO2:21</td>
<td>59, 113, 46, 66</td>
</tr>
<tr>
<td>Brooks, Fiona</td>
<td>234</td>
<td>PO1:8</td>
<td>53, 89</td>
</tr>
<tr>
<td>Bukeyeneza, Josefchyne</td>
<td>294</td>
<td>OP1:4</td>
<td>49, 78</td>
</tr>
<tr>
<td>Bulegenova, Minira</td>
<td>112, 117, 114, 136</td>
<td>PO1:27, PO1:26, PO2:4, PO2:3, 59, 113</td>
<td></td>
</tr>
<tr>
<td>Burac, Lucia F</td>
<td>223</td>
<td>PO2:6</td>
<td>59, 113</td>
</tr>
<tr>
<td>Burlea, Marin</td>
<td>203, 204</td>
<td>OP4:2, OP4:6</td>
<td>49, 78</td>
</tr>
<tr>
<td>Busse, Heide</td>
<td>104</td>
<td>OP5:7</td>
<td>50, 81</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Çakir, Deniz</td>
<td>149</td>
<td>PO1:37</td>
<td>53, 89</td>
</tr>
<tr>
<td>Çakir, Deniz</td>
<td>138</td>
<td>PO2:44</td>
<td>59, 113</td>
</tr>
<tr>
<td>Caldas Alfonso, Alberto</td>
<td>129, 131</td>
<td>OP3:4, OP3:7</td>
<td>48, 73</td>
</tr>
<tr>
<td>Caldas de Almeida, José Miguel</td>
<td>167</td>
<td>OP5:6</td>
<td>50, 81</td>
</tr>
<tr>
<td>Carnacho, Inês</td>
<td>257</td>
<td>OP2:5</td>
<td>47, 70</td>
</tr>
<tr>
<td>Campbell, Malcolm</td>
<td>127</td>
<td>OP4:5</td>
<td>49, 78</td>
</tr>
<tr>
<td>Campos, António Pedro</td>
<td>251, 212</td>
<td>OP1:8, OP2:30</td>
<td>59, 113, 46, 66</td>
</tr>
<tr>
<td>Candeias, Flora</td>
<td>251, 262, 212</td>
<td>OP1:8, OP1:6, OP2:30</td>
<td>59, 113, 46, 66</td>
</tr>
<tr>
<td>Carvalho, Ana Catarina</td>
<td>263, 270</td>
<td>OP4:4, OP2:20</td>
<td>59, 113, 49, 78</td>
</tr>
<tr>
<td>Cetemen, Aysen</td>
<td>138</td>
<td>PO2:44</td>
<td>59, 113</td>
</tr>
<tr>
<td>Ceytan, Mehmett</td>
<td>163</td>
<td>OP4:8</td>
<td>49, 78</td>
</tr>
<tr>
<td>Chemli, Jael</td>
<td>133, 219, 288, 284</td>
<td>PO1:31, PO1:33, 53, 59, 89, 113</td>
<td></td>
</tr>
<tr>
<td>Cidade, Ana Lúcia</td>
<td>127</td>
<td>OP4:5</td>
<td>49, 78</td>
</tr>
<tr>
<td>Cork, Michael J</td>
<td>127</td>
<td>OP4:5</td>
<td>49, 78</td>
</tr>
<tr>
<td>Correia, Joanna</td>
<td>215</td>
<td>PO1:28</td>
<td>53, 89</td>
</tr>
<tr>
<td>Cosma, Alina</td>
<td>259</td>
<td>OP5:5</td>
<td>50, 81</td>
</tr>
<tr>
<td>Cosme, Dina</td>
<td>129, 131</td>
<td>OP3:4, OP3:7</td>
<td>48, 73</td>
</tr>
<tr>
<td>Costa, Ana Luisa</td>
<td>227</td>
<td>PO2:32</td>
<td>59, 113</td>
</tr>
<tr>
<td>Costa, Raquel</td>
<td>212</td>
<td>PO2:30</td>
<td>59, 113</td>
</tr>
<tr>
<td>Cretu, Roxana</td>
<td>203</td>
<td>OP4:2</td>
<td>49, 78</td>
</tr>
<tr>
<td>Cristescu, Delia</td>
<td>259</td>
<td>OP5:5</td>
<td>50, 81</td>
</tr>
<tr>
<td>Crnković, Tamara</td>
<td>272</td>
<td>PO2:29</td>
<td>59, 113</td>
</tr>
<tr>
<td>Cunha, Joaquim</td>
<td>255, 270</td>
<td>PO2:27, PO2:20</td>
<td>59, 113</td>
</tr>
<tr>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dalle Molle, Roberta</td>
<td>160</td>
<td>OP3:5</td>
<td>48, 73</td>
</tr>
<tr>
<td>Danby, Simon</td>
<td>127</td>
<td>OP4:5</td>
<td>49, 78</td>
</tr>
<tr>
<td>Dankulincova Veselkska, Zuzana</td>
<td>162, 170</td>
<td>PO1:21, OP3:6</td>
<td>48, 53, 73, 89</td>
</tr>
<tr>
<td>Dapić, Tomislav</td>
<td>272</td>
<td>PO2:29</td>
<td>59, 113</td>
</tr>
<tr>
<td>Davidson, Bruce L</td>
<td>139</td>
<td>OP6:1</td>
<td>51, 85</td>
</tr>
<tr>
<td>Davidson, Colleen</td>
<td>209</td>
<td>OP5:2</td>
<td>50, 81</td>
</tr>
<tr>
<td>De Clercq, Bart</td>
<td>209</td>
<td>OP5:2</td>
<td>50, 81</td>
</tr>
<tr>
<td>De Grooth, Ronald</td>
<td>185</td>
<td>PO1:30</td>
<td>53, 89</td>
</tr>
<tr>
<td>de Klerk, Froukje</td>
<td>109</td>
<td>OP2:3</td>
<td>47, 70</td>
</tr>
<tr>
<td>Delisan, Dan</td>
<td>266</td>
<td>PO1:35</td>
<td>53, 89</td>
</tr>
<tr>
<td>Dellogou, Burak</td>
<td>138, 165</td>
<td>OP2:44, OP2:43</td>
<td>59, 113</td>
</tr>
<tr>
<td>Dimitriou, Gabriel</td>
<td>190</td>
<td>PO1:41</td>
<td>53, 89</td>
</tr>
<tr>
<td>Domínguez, Rui Pereira</td>
<td>262</td>
<td>OP1:6</td>
<td>46, 66</td>
</tr>
<tr>
<td>Dotan, Miri</td>
<td>282</td>
<td>OP6:3</td>
<td>51, 85</td>
</tr>
<tr>
<td>Dubie, Laurette</td>
<td>160</td>
<td>OP3:5</td>
<td>48, 73</td>
</tr>
<tr>
<td>Due, Permile</td>
<td>235</td>
<td>OP1:3</td>
<td>46, 66</td>
</tr>
<tr>
<td>Author</td>
<td>Paper</td>
<td>Session</td>
<td>Page</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------</td>
<td>---------</td>
<td>-------</td>
</tr>
<tr>
<td>Duong, Heather Hanh</td>
<td>278</td>
<td>OP1:5</td>
<td>46,66</td>
</tr>
<tr>
<td>Dzielska, Anna</td>
<td>224</td>
<td>OP5:4</td>
<td>50,81</td>
</tr>
<tr>
<td>E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ebenebe, Joy Chinelo</td>
<td>166</td>
<td>OP6:2</td>
<td>51,85</td>
</tr>
<tr>
<td>Ehlinger, Virginie</td>
<td>221, 252</td>
<td>OP1:4, PO2:37</td>
<td>59,113, 46,66</td>
</tr>
<tr>
<td>Eker, Prnar</td>
<td>188</td>
<td>PO2:45</td>
<td>59,113</td>
</tr>
<tr>
<td>El Tatawy, Lamiaa Awny</td>
<td>139</td>
<td>OP6:1</td>
<td>51,85</td>
</tr>
<tr>
<td>Erkan, Oya</td>
<td>156</td>
<td>PO1:13</td>
<td>53,89</td>
</tr>
<tr>
<td>Erdeger, Ozlem</td>
<td>165</td>
<td>PO2:43</td>
<td>59,113</td>
</tr>
<tr>
<td>Ergnoz, Ethem</td>
<td>156</td>
<td>PO1:13</td>
<td>53,89</td>
</tr>
<tr>
<td>Esenay, Figen Işık</td>
<td>153, 184</td>
<td>PO1:7, PO2:42</td>
<td>53,89, 59,113</td>
</tr>
<tr>
<td>Faber, Aída</td>
<td>160</td>
<td>OP3:5</td>
<td>48,73</td>
</tr>
<tr>
<td>Fadous Khalife, Marie Claude, Joseph</td>
<td>118, 125</td>
<td>OP2:6, OP5:1</td>
<td>47,70, 50,81</td>
</tr>
<tr>
<td>Fairid, Maisa</td>
<td>216</td>
<td>OP6:7</td>
<td>51,85</td>
</tr>
<tr>
<td>Feghali Abiad, Hala Camil</td>
<td>118</td>
<td>OP2:6</td>
<td>47,70</td>
</tr>
<tr>
<td>Feghali, Yusuf</td>
<td>125</td>
<td>OP5:1</td>
<td>50,81</td>
</tr>
<tr>
<td>Fiscina, Bernadette</td>
<td>156</td>
<td>PO1:13</td>
<td>53,89</td>
</tr>
<tr>
<td>Floca, Emanuela</td>
<td>223</td>
<td>PO2:6</td>
<td>59,113</td>
</tr>
<tr>
<td>Fonseca, Jacinta</td>
<td>126</td>
<td>PO2:33</td>
<td>59,113</td>
</tr>
<tr>
<td>Francisco, Rivera</td>
<td>240</td>
<td>PO1:3</td>
<td>53,89</td>
</tr>
<tr>
<td>Frasquilho, Diana</td>
<td>167</td>
<td>OP5:6</td>
<td>50,81</td>
</tr>
<tr>
<td>Freitas, Joana Rita</td>
<td>246</td>
<td>OP1:7</td>
<td>46,66</td>
</tr>
<tr>
<td>Fujioka, Hiroki</td>
<td>225</td>
<td>PO2:25</td>
<td>59,113</td>
</tr>
<tr>
<td>G</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garcia-Moya, Irene</td>
<td>236, 243</td>
<td>PO1:2, PO1:1</td>
<td>53,89</td>
</tr>
<tr>
<td>Garcia, Ana Margarida</td>
<td>276</td>
<td>PO2:21</td>
<td>59,113</td>
</tr>
<tr>
<td>Gaspard de Matos, Margarida</td>
<td>167, 257</td>
<td>OP2:5, OP5:6</td>
<td>47,50, 70,81</td>
</tr>
<tr>
<td>Gaspar, Tânia</td>
<td>182, 167</td>
<td>OP1:2, OP5:6</td>
<td>46,66, 50,81</td>
</tr>
<tr>
<td>Gavin, Azile</td>
<td>226</td>
<td>OP5:3</td>
<td>50,81</td>
</tr>
<tr>
<td>Gavino, Alexandra</td>
<td>141</td>
<td>OP1:43</td>
<td>53,89</td>
</tr>
<tr>
<td>Gavrileva, Elena</td>
<td>234</td>
<td>PO1:8</td>
<td>53,89</td>
</tr>
<tr>
<td>Gee, Kiera</td>
<td>218</td>
<td>PO2:22</td>
<td>59,113</td>
</tr>
<tr>
<td>Gjerga Juraški, Romana</td>
<td>272</td>
<td>PO2:29</td>
<td>59,113</td>
</tr>
<tr>
<td>Godeau, Emmanuelle</td>
<td>221, 252</td>
<td>OP1:4, PO2:37</td>
<td>59,113, 46,66</td>
</tr>
<tr>
<td>Gómez, Diego</td>
<td>257</td>
<td>OP2:5</td>
<td>47,70</td>
</tr>
<tr>
<td>Gonzaga, Diana</td>
<td>215</td>
<td>PO1:28</td>
<td>53,89</td>
</tr>
<tr>
<td>Grampa, Alina</td>
<td>266, 264</td>
<td>PO1:35, PO2:28</td>
<td>53,89, 59,113</td>
</tr>
<tr>
<td>Green, Robin J.</td>
<td>143</td>
<td>PO2:34</td>
<td>59,113</td>
</tr>
<tr>
<td>Guedri, Hajar</td>
<td>219</td>
<td>PO2:16</td>
<td>59,113</td>
</tr>
<tr>
<td>Guerra, António</td>
<td>129, 131</td>
<td>OP3:4, OP3:7</td>
<td>48,73</td>
</tr>
<tr>
<td>Guimarães, Hercília</td>
<td>227</td>
<td>PO2:32</td>
<td>59,113</td>
</tr>
<tr>
<td>Gül, Cengiz</td>
<td>159</td>
<td>PO1:39</td>
<td>53,89</td>
</tr>
<tr>
<td>Guzhan, Sarsenbayeva</td>
<td>193</td>
<td>PO2:2</td>
<td>59,113</td>
</tr>
<tr>
<td>Gunnell, David</td>
<td>104</td>
<td>OP5:7</td>
<td>50,81</td>
</tr>
<tr>
<td>Günter, Nezahat</td>
<td>163</td>
<td>OP4:8</td>
<td>49,78</td>
</tr>
<tr>
<td>H</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hafizi, Ali</td>
<td>208</td>
<td>PO1:16</td>
<td>53,89</td>
</tr>
<tr>
<td>Hagquist, Curt</td>
<td>239</td>
<td>OP6:6</td>
<td>51,85</td>
</tr>
<tr>
<td>Haider, Amal</td>
<td>181</td>
<td>PO1:25</td>
<td>53,89</td>
</tr>
<tr>
<td>Harnad, Adiba</td>
<td>181</td>
<td>PO1:25</td>
<td>53,89</td>
</tr>
<tr>
<td>Hamazaki, Takashi</td>
<td>225</td>
<td>PO2:25</td>
<td>59,113</td>
</tr>
<tr>
<td>Harel-Fisch, Yossi</td>
<td>209</td>
<td>OP5:2</td>
<td>50,81</td>
</tr>
<tr>
<td>Harrop, Tara</td>
<td>104</td>
<td>OP5:7</td>
<td>50,81</td>
</tr>
<tr>
<td>Hartwig, Nico G.</td>
<td>185</td>
<td>PO1:30</td>
<td>53,89</td>
</tr>
<tr>
<td>Hassayoun, Saida</td>
<td>133, 268</td>
<td>PO1:31, PO1:33, PO1:34, PO2:16</td>
<td>59,113</td>
</tr>
<tr>
<td>Hauser, Simon</td>
<td>218</td>
<td>PO2:22</td>
<td>59,113</td>
</tr>
<tr>
<td>Hayat, Munazza</td>
<td>248</td>
<td>PO2:40</td>
<td>59,113</td>
</tr>
<tr>
<td>Hendaus, Mohamed</td>
<td>181</td>
<td>PO1:25</td>
<td>53,89</td>
</tr>
<tr>
<td>Hendron, Elizabeth</td>
<td>231</td>
<td>PO1:49</td>
<td>53,89</td>
</tr>
<tr>
<td>Holubokova, Jana</td>
<td>175</td>
<td>OP3:1</td>
<td>48,73</td>
</tr>
<tr>
<td>Hoekote, Aparna</td>
<td>296</td>
<td>PO2:38</td>
<td>59,113</td>
</tr>
<tr>
<td>Hotiana, Naveed Alkar</td>
<td>248</td>
<td>PO2:40</td>
<td>59,113</td>
</tr>
<tr>
<td>Howell, Fenton</td>
<td>220</td>
<td>PO2:2</td>
<td>47,70</td>
</tr>
<tr>
<td>Hochna, Hamide</td>
<td>102</td>
<td>PO2:17</td>
<td>59,113</td>
</tr>
<tr>
<td>Hochna, Teuta</td>
<td>132</td>
<td>PO2:49</td>
<td>59,113</td>
</tr>
<tr>
<td>I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ibadin, Micheal Okoeaguë</td>
<td>134</td>
<td>OP4:3</td>
<td>49,78</td>
</tr>
<tr>
<td>Ibn Hassine, Nesrine</td>
<td>133</td>
<td>PO1:31</td>
<td>53,89</td>
</tr>
<tr>
<td>Ige, Olukeni Omowumi</td>
<td>290</td>
<td>PO2:35</td>
<td>59,113</td>
</tr>
<tr>
<td>Ignat, Ancuta</td>
<td>203, 204</td>
<td>OP4:2, OP4:6</td>
<td>49,78</td>
</tr>
<tr>
<td>Imam, Lukman</td>
<td>181</td>
<td>PO1:25</td>
<td>53,89</td>
</tr>
<tr>
<td>Indriasti, Nadia Tita</td>
<td>187, 283</td>
<td>PO1:17, PO1:23</td>
<td>53,89</td>
</tr>
<tr>
<td>Ionuciu, Ileana</td>
<td>203, 204</td>
<td>OP4:2, OP4:6</td>
<td>49,78</td>
</tr>
<tr>
<td>Ishuova, Pakhtikanym</td>
<td>191, 194</td>
<td>PO1:44, PO1:42, PO2:2</td>
<td>53,89, 59,113</td>
</tr>
<tr>
<td>Isfek, Ismail</td>
<td>135, 145</td>
<td>PO1:38, PO1:36, PO1:37, PO1:39, PO2:44, PO2:46, PO2:43, PO2:45</td>
<td>59,113</td>
</tr>
<tr>
<td>Jiménez-Iglesias, Antonia</td>
<td>236, 257</td>
<td>PO1:2, OP2:5</td>
<td>53,89, 47,70</td>
</tr>
<tr>
<td>Joergensen, Sanne E</td>
<td>235</td>
<td>OP1:3</td>
<td>46,66</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jaruratanasirikul, Somchit</td>
<td>128</td>
<td>PO1:29</td>
<td>53,89</td>
</tr>
<tr>
<td>K</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kakat, Suzan</td>
<td>296</td>
<td>PO2:38</td>
<td>59,113</td>
</tr>
<tr>
<td>Kalifa, Eli</td>
<td>102, 103</td>
<td>PO2:17, PO2:18</td>
<td>59,113</td>
</tr>
<tr>
<td>Author</td>
<td>Paper</td>
<td>Session</td>
<td>Page</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------</td>
<td>---------</td>
<td>------</td>
</tr>
<tr>
<td>Kamal, Madeeha</td>
<td>157</td>
<td>PO1:12</td>
<td>53, 89</td>
</tr>
<tr>
<td>Kanauzov, Michail Yakovlevich</td>
<td>130</td>
<td>PO2:5</td>
<td>59, 113</td>
</tr>
<tr>
<td>Kang, Ying Qi</td>
<td>140</td>
<td>PO1:5</td>
<td>53, 89</td>
</tr>
<tr>
<td>Karakayali, Burcu</td>
<td>135, 138, 145, 147, 149, 159, 188</td>
<td>PO1:38, PO1:37, PO1:39, PO1:36, PO2:44, PO2:45, PO2:46</td>
<td>53, 89, 59, 113</td>
</tr>
<tr>
<td>Kariminkoo, Mandana</td>
<td>138</td>
<td>PO2:44</td>
<td>59, 113</td>
</tr>
<tr>
<td>Karmani, Wassim</td>
<td>284</td>
<td>PO1:34</td>
<td>53, 89</td>
</tr>
<tr>
<td>Karsas, Maria</td>
<td>143</td>
<td>PO2:34</td>
<td>59, 113</td>
</tr>
<tr>
<td>Keane, Eimear</td>
<td>220</td>
<td>OP2:2</td>
<td>47, 70</td>
</tr>
<tr>
<td>Kelly, Colette</td>
<td>220, 226</td>
<td>OP2:12, OP5:3</td>
<td>47, 70, 50, 81</td>
</tr>
<tr>
<td>Khalafalla, Hany Mohamed</td>
<td>139</td>
<td>OP6:1</td>
<td>51, 85</td>
</tr>
<tr>
<td>Khan, Shabeena</td>
<td>157</td>
<td>PO1:12</td>
<td>53, 89</td>
</tr>
<tr>
<td>Khan, Shabin</td>
<td>288</td>
<td>PO1:48</td>
<td>53, 89</td>
</tr>
<tr>
<td>Khan, Shabina</td>
<td>181</td>
<td>PO1:25</td>
<td>53, 89</td>
</tr>
<tr>
<td>Khil, Abderrahmen</td>
<td>256, 261, 285, 286</td>
<td>PO1:32, PO1:13, 89, 113</td>
<td>53, 59, 89, 113</td>
</tr>
<tr>
<td>Kim, Chun Soo</td>
<td>232, 241</td>
<td>PO2:23, PO2:24</td>
<td>59, 113</td>
</tr>
<tr>
<td>Kim, Dong Seok</td>
<td>232</td>
<td>PO2:23</td>
<td>53, 89</td>
</tr>
<tr>
<td>Kim, Yun Jung</td>
<td>241</td>
<td>PO2:24</td>
<td>59, 113</td>
</tr>
<tr>
<td>Kipping, Ruth</td>
<td>104</td>
<td>OP5:7</td>
<td>50, 81</td>
</tr>
<tr>
<td>Klein, Daniel</td>
<td>162</td>
<td>PO1:21</td>
<td>53, 89</td>
</tr>
<tr>
<td>Klemera, Ellen</td>
<td>234</td>
<td>PO8:14</td>
<td>53, 89</td>
</tr>
<tr>
<td>Kolarick, Peter</td>
<td>175</td>
<td>OP1:1</td>
<td>48, 73</td>
</tr>
<tr>
<td>Kolarova-Yaneva, Nadia</td>
<td>253, 254</td>
<td>PO1:11, PO1:10</td>
<td>53, 89</td>
</tr>
<tr>
<td>Kopckakova, Joroselava</td>
<td>162</td>
<td>PO1:21</td>
<td>53, 89</td>
</tr>
<tr>
<td>Korb, Magd Ahmed</td>
<td>250</td>
<td>OP4:7</td>
<td>49, 78</td>
</tr>
<tr>
<td>Kragić, Katija</td>
<td>180</td>
<td>PO2:22</td>
<td>53, 89</td>
</tr>
<tr>
<td>Kristoffersen, Mette</td>
<td>235</td>
<td>OP1:3</td>
<td>46, 66</td>
</tr>
<tr>
<td>Kudo, Satoshi</td>
<td>225</td>
<td>PO2:25</td>
<td>59, 113</td>
</tr>
<tr>
<td>Kumar, Manish</td>
<td>245</td>
<td>PO2:9</td>
<td>59, 113</td>
</tr>
<tr>
<td>Kustova, Elena</td>
<td>112</td>
<td>PO1:27</td>
<td>53, 89</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Author</th>
<th>Paper</th>
<th>Session</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lupu, Vasile Valeriu</td>
<td>203, 204</td>
<td>OP4:2, OP4:6</td>
<td>49, 78</td>
</tr>
<tr>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mabrouk, Sameh</td>
<td>133, 268, 284, 219</td>
<td>PO1:31, PO1:33, PO1:34, PO2:16</td>
<td>53, 89, 59, 113</td>
</tr>
<tr>
<td>Machado, Angela</td>
<td>169</td>
<td>PO2:1</td>
<td>59, 113</td>
</tr>
<tr>
<td>Machado, Leonilde</td>
<td>169, 271</td>
<td>PO2:1, PO2:7</td>
<td>59, 113</td>
</tr>
<tr>
<td>Machado, Maria Céu</td>
<td>182</td>
<td>OP1:2</td>
<td>46, 66</td>
</tr>
<tr>
<td>Madarasova Goeckova, Anna</td>
<td>182, 183, 170, 175</td>
<td>PO1:21, PO1:9, OP3:6, OP3:1</td>
<td>53, 89, 48, 73</td>
</tr>
<tr>
<td>Mahmood, Rashid</td>
<td>248</td>
<td>PO2:40</td>
<td>59, 113</td>
</tr>
<tr>
<td>Maia, Caterina</td>
<td>213, 211</td>
<td>PO1:40, PO2:31</td>
<td>53, 89, 59, 113</td>
</tr>
<tr>
<td>Maia, Raquel</td>
<td>212</td>
<td>PO2:30</td>
<td>59, 113</td>
</tr>
<tr>
<td>Maio, Inês</td>
<td>215</td>
<td>PO1:28</td>
<td>53, 89</td>
</tr>
<tr>
<td>Maira, Sharipova</td>
<td>193</td>
<td>PO2:2</td>
<td>59, 113</td>
</tr>
<tr>
<td>Makhnueva, Anna</td>
<td>117, 136</td>
<td>PO1:26, PO2:3</td>
<td>53, 89, 59, 113</td>
</tr>
<tr>
<td>Maladowska-Szkutnik, Agnieszka</td>
<td>265, 224</td>
<td>OP1:1, OP5:4</td>
<td>46, 66, 50, 81</td>
</tr>
<tr>
<td>Mallick, Pranab Kanti</td>
<td>207</td>
<td>OP6:4</td>
<td>51, 85</td>
</tr>
<tr>
<td>Mandel, Karen</td>
<td>278</td>
<td>OP1:5</td>
<td>46, 66</td>
</tr>
<tr>
<td>Manning, Joseph C.</td>
<td>231, 237</td>
<td>PO1:49, PO1:50</td>
<td>53, 89</td>
</tr>
<tr>
<td>Mano, Ana Lia</td>
<td>251</td>
<td>OP1:8</td>
<td>46, 66</td>
</tr>
<tr>
<td>Marques, Inês</td>
<td>269</td>
<td>PO2:12</td>
<td>59, 113</td>
</tr>
<tr>
<td>Martins, Cecilia</td>
<td>211, 213, 227</td>
<td>PO1:40, PO2:31, PO2:32</td>
<td>53, 59, 48, 73</td>
</tr>
<tr>
<td>Matanić, Dubravka</td>
<td>180</td>
<td>PO1:22</td>
<td>53, 89</td>
</tr>
<tr>
<td>Matos, Margarida Gaspar</td>
<td>182</td>
<td>OP1:2</td>
<td>46, 66</td>
</tr>
<tr>
<td>Mazur, Joanna</td>
<td>265, 224</td>
<td>OP1:1, OP5:4</td>
<td>46, 66, 50, 81</td>
</tr>
<tr>
<td>Megremi, Amalia</td>
<td>122</td>
<td>PO2:19</td>
<td>59, 113</td>
</tr>
<tr>
<td>Melkumova, Marina</td>
<td>206, 208, 260</td>
<td>OP3:8, PO2:29</td>
<td>59, 59, 113, 48, 73</td>
</tr>
<tr>
<td>Mghirbi, Oussama</td>
<td>268</td>
<td>PO1:23</td>
<td>53, 89</td>
</tr>
<tr>
<td>Michail, Maria</td>
<td>231</td>
<td>PO1:49</td>
<td>53, 89</td>
</tr>
<tr>
<td>Michelsen, Susan I</td>
<td>235</td>
<td>OP1:3</td>
<td>46, 66</td>
</tr>
<tr>
<td>Mihailov, Vasili</td>
<td>253</td>
<td>PO1:11</td>
<td>53, 89</td>
</tr>
<tr>
<td>Militar, Mariela</td>
<td>264</td>
<td>PO2:28</td>
<td>59, 113</td>
</tr>
<tr>
<td>Molcho, Michal</td>
<td>220, 209, 226</td>
<td>OP2:2, OP5:2, OP5:3</td>
<td>47, 70, 50, 81</td>
</tr>
<tr>
<td>Monteiro, Claudia</td>
<td>126, 263</td>
<td>PO2:33, PO4:4, PO2:7,</td>
<td>49, 59, 78, 113</td>
</tr>
<tr>
<td>Moodambai, Abdul</td>
<td>244</td>
<td>PO1:6</td>
<td>53, 89</td>
</tr>
<tr>
<td>Mor, Meirav</td>
<td>282</td>
<td>OP6:3</td>
<td>51, 85</td>
</tr>
<tr>
<td>Morato, Manuela</td>
<td>129, 131</td>
<td>OP3:4, OP3:7</td>
<td>48, 73</td>
</tr>
<tr>
<td>Moreira, Ana Raquel</td>
<td>213, 211, 227</td>
<td>PO1:40, PO2:31, PO2:32</td>
<td>53, 89, 59, 113</td>
</tr>
<tr>
<td>Moreira, Eunice</td>
<td>263, 271</td>
<td>OP4:4, PO2:7</td>
<td>59, 113, 49, 78</td>
</tr>
<tr>
<td>Moreno-Maldonado, Concepción</td>
<td>240, 243</td>
<td>PO1:1, PO1:3, PO2:5</td>
<td>47, 53, 70, 89</td>
</tr>
<tr>
<td>Author</td>
<td>Paper</td>
<td>Session</td>
<td>Page</td>
</tr>
<tr>
<td>------------------------------</td>
<td>--------</td>
<td>-------------</td>
<td>-------</td>
</tr>
<tr>
<td>Moreno, Carmen</td>
<td>236, 240, 257</td>
<td>PO1:2, PO1:3, OP2:5</td>
<td>53, 89, 47, 70</td>
</tr>
<tr>
<td>Morgan, Antony</td>
<td>243</td>
<td>PO1:1</td>
<td>53, 89</td>
</tr>
<tr>
<td>Mota, Cláudia</td>
<td>131, 131</td>
<td>OP3:7, OP3:7</td>
<td>48, 73</td>
</tr>
<tr>
<td>Movsesyan, Yeva</td>
<td>206, 280</td>
<td>PO3:8, PO2:39</td>
<td>59, 113, 48, 73</td>
</tr>
<tr>
<td>Mukherjee, A</td>
<td>242</td>
<td>OP1:9</td>
<td>46, 66</td>
</tr>
<tr>
<td>Mulay, Kalyani Vijaykumar</td>
<td>140, 200</td>
<td>PO1:5, PO1:4</td>
<td>53, 89</td>
</tr>
<tr>
<td>Mustafin, Oleg</td>
<td>136</td>
<td>PO2:3</td>
<td>59, 113</td>
</tr>
<tr>
<td>Nad, Ida</td>
<td>186</td>
<td>PO1:14</td>
<td>53, 89</td>
</tr>
<tr>
<td>Naseh, Ali</td>
<td>208</td>
<td>PO1:16</td>
<td>53, 89</td>
</tr>
<tr>
<td>Ndukuwu, Chizalu Ileyinya</td>
<td>166</td>
<td>OP6:2</td>
<td>51, 85</td>
</tr>
<tr>
<td>Nedkova, Vania</td>
<td>253</td>
<td>PO1:11</td>
<td>53, 89</td>
</tr>
<tr>
<td>Nenciu, Ioana</td>
<td>202</td>
<td>PO2:26</td>
<td>59, 113</td>
</tr>
<tr>
<td>Neves, João Farelle</td>
<td>246</td>
<td>PO1:7</td>
<td>46, 66</td>
</tr>
<tr>
<td>Neves, Maria Conceição</td>
<td>246</td>
<td>PO1:7</td>
<td>46, 66</td>
</tr>
<tr>
<td>Neza, Bashkim</td>
<td>102</td>
<td>PO2:17</td>
<td>59, 113</td>
</tr>
<tr>
<td>Nic Gabhainn, Sacoise</td>
<td>220, 226</td>
<td>PO2:2, OP5:3</td>
<td>47, 70, 50, 81</td>
</tr>
<tr>
<td>Nita, Andrea</td>
<td>202</td>
<td>PO2:26</td>
<td>59, 113</td>
</tr>
<tr>
<td>Nour, Salsabil</td>
<td>219</td>
<td>PO2:16</td>
<td>59, 113</td>
</tr>
<tr>
<td>Nourbakhtsh, Sormeh</td>
<td>208</td>
<td>PO1:16</td>
<td>53, 89</td>
</tr>
<tr>
<td>Novosad, Katerina</td>
<td>130</td>
<td>PO2:5</td>
<td>59, 113</td>
</tr>
<tr>
<td>Nwanei, Damian Uchechukwu</td>
<td>134</td>
<td>OP4:3</td>
<td>49, 78</td>
</tr>
<tr>
<td>O'Callaghan, Maura</td>
<td>296</td>
<td>PO2:38</td>
<td>59, 113</td>
</tr>
<tr>
<td>Obolskaya, Nataliya</td>
<td>130</td>
<td>PO2:5</td>
<td>59, 113</td>
</tr>
<tr>
<td>Michailovna</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ogbonna, Isichukwu, Frank</td>
<td>198</td>
<td>OP3:2</td>
<td>48, 73</td>
</tr>
<tr>
<td>Oguche, Stephen</td>
<td>290</td>
<td>PO2:35</td>
<td>59, 113</td>
</tr>
<tr>
<td>Ojami, Maud</td>
<td>125</td>
<td>OP5:1</td>
<td>50, 81</td>
</tr>
<tr>
<td>Okufo, Henrietta</td>
<td>198</td>
<td>OP3:2</td>
<td>48, 73</td>
</tr>
<tr>
<td>Otelić, Lea</td>
<td>186</td>
<td>PO1:14</td>
<td>53, 89</td>
</tr>
<tr>
<td>Oliveira, Laura</td>
<td>246</td>
<td>PO1:7</td>
<td>46, 66</td>
</tr>
<tr>
<td>Onah, Stanley Kenechukwu</td>
<td>166</td>
<td>OP6:2</td>
<td>51, 85</td>
</tr>
<tr>
<td>Ongfré, José Manuel</td>
<td>141</td>
<td>PO1:43</td>
<td>53, 89</td>
</tr>
<tr>
<td>Orški, Jelena</td>
<td>272</td>
<td>PO2:29</td>
<td>59, 113</td>
</tr>
<tr>
<td>Osman, Samar</td>
<td>157, 181</td>
<td>PO1:12, PO1:25</td>
<td>53, 89</td>
</tr>
<tr>
<td>Othman, Mona</td>
<td>216</td>
<td>OP6:7</td>
<td>51, 85</td>
</tr>
<tr>
<td>Ozer, Ruhan</td>
<td>145, 159</td>
<td>PO1:36, PO1:39</td>
<td>53, 89</td>
</tr>
<tr>
<td>Ozkan, Nesrin</td>
<td>145</td>
<td>PO1:36</td>
<td>53, 89</td>
</tr>
<tr>
<td>Özsurekolu, Yasemin</td>
<td>163</td>
<td>OP4:8</td>
<td>49, 78</td>
</tr>
<tr>
<td>Ozturk Ozdal, Duygu</td>
<td>147</td>
<td>PO2:46</td>
<td>59, 113</td>
</tr>
<tr>
<td>Pacoricona Alfaro, Dibia Liz</td>
<td>221, 252</td>
<td>PO1:4, PO2:37</td>
<td>59, 113, 46, 66</td>
</tr>
<tr>
<td>Paduraru, Gabriela</td>
<td>204</td>
<td>OP4:6</td>
<td>49, 78</td>
</tr>
<tr>
<td>Pala, Emin</td>
<td>145</td>
<td>PO1:36</td>
<td>53, 89</td>
</tr>
<tr>
<td>Palacios, Jesús</td>
<td>240</td>
<td>PO1:3</td>
<td>53, 89</td>
</tr>
<tr>
<td>Pandee, Uthen</td>
<td>161</td>
<td>PO2:11</td>
<td>59, 113</td>
</tr>
<tr>
<td>Pantaquoo, Carmen</td>
<td>240</td>
<td>PO1:3</td>
<td>53, 89</td>
</tr>
<tr>
<td>Author</td>
<td>Paper</td>
<td>Session</td>
<td>Page</td>
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<tr>
<td>Rychwalaskabrown, Lucy</td>
<td>237</td>
<td>PO1.50</td>
<td>53, 89</td>
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<td>S</td>
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<tr>
<td>Sabour, Sahar</td>
<td>216</td>
<td>OP6:7</td>
<td>51, 85</td>
</tr>
<tr>
<td>Sadoh, Ayebo Evawere</td>
<td>134</td>
<td>OP4:3</td>
<td>49, 78</td>
</tr>
<tr>
<td>Sahin, Ceyhan</td>
<td>159</td>
<td>PO1:39</td>
<td>53, 89</td>
</tr>
<tr>
<td>Sakaguchi, Tomoko</td>
<td>225</td>
<td>PO2:25</td>
<td>59, 113</td>
</tr>
<tr>
<td>Sakran, Mahmoud</td>
<td>278</td>
<td>OP1:5</td>
<td>46, 66</td>
</tr>
<tr>
<td>Salva, Inês</td>
<td>281</td>
<td>PO1:15</td>
<td>53, 89</td>
</tr>
<tr>
<td>Sánchez-Quejía, Inmaculada</td>
<td>236, 243</td>
<td>PO1:2, PO1:1</td>
<td>53, 89</td>
</tr>
<tr>
<td>Sammarful, Inês</td>
<td>141</td>
<td>PO1:43</td>
<td>53, 89</td>
</tr>
<tr>
<td>Santos, Margarida</td>
<td>262</td>
<td>OP1:6</td>
<td>46, 66</td>
</tr>
<tr>
<td>Santos, Teresa Cristina</td>
<td>182</td>
<td>OP1:2</td>
<td>46, 66</td>
</tr>
<tr>
<td>Sarafanova, Marina</td>
<td>189</td>
<td>PO2:50</td>
<td>59, 113</td>
</tr>
<tr>
<td>Evgen’evna</td>
<td></td>
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<td>Sargsyan, Sergey</td>
<td>206, 280</td>
<td>OP3:8, PO2:39</td>
<td>48, 59, 73, 113</td>
</tr>
<tr>
<td>Sari, Erdal</td>
<td>165</td>
<td>PO2:43</td>
<td>59, 113</td>
</tr>
<tr>
<td>Schaefer, Franz</td>
<td>129, 131</td>
<td>OP3:4, OP3:7</td>
<td>48, 73</td>
</tr>
<tr>
<td>Sentenac, Mariane</td>
<td>221, 252</td>
<td>OP1:4, PO2:37</td>
<td>59, 113, 46, 66</td>
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<tr>
<td>Shrijan, Donita</td>
<td>123</td>
<td>PO2:10</td>
<td>59, 113</td>
</tr>
<tr>
<td>Shah, Neil</td>
<td>296</td>
<td>PO2:38</td>
<td>59, 113</td>
</tr>
<tr>
<td>Shintaku, Haruo</td>
<td>225</td>
<td>PO2:25</td>
<td>59, 113</td>
</tr>
<tr>
<td>Sigmundova, Dagmar</td>
<td>170</td>
<td>OP3:6</td>
<td>48, 73</td>
</tr>
<tr>
<td>Silva, Ana Gomes da</td>
<td>269</td>
<td>PO2:12</td>
<td>59, 113</td>
</tr>
<tr>
<td>Silva, Conceição</td>
<td>126</td>
<td>PO3:33</td>
<td>59, 113</td>
</tr>
<tr>
<td>Silva, Gisela</td>
<td>255</td>
<td>PO2:27</td>
<td>59, 113</td>
</tr>
<tr>
<td>Silveira, Patricia Pelufo</td>
<td>160</td>
<td>OP3:5</td>
<td>48, 73</td>
</tr>
<tr>
<td>Simões, Celeste</td>
<td>182</td>
<td>OP1:2</td>
<td>46, 66</td>
</tr>
<tr>
<td>Simonsen, Nina</td>
<td>239</td>
<td>OP6:6</td>
<td>51, 85</td>
</tr>
<tr>
<td>Singagireson, Shawmian</td>
<td>296</td>
<td>PO2:38</td>
<td>59, 113</td>
</tr>
<tr>
<td>Sirucek, Jan</td>
<td>183</td>
<td>PO1:9</td>
<td>53, 89</td>
</tr>
<tr>
<td>Skouri, Hadef</td>
<td>219</td>
<td>PO2:16</td>
<td>59, 113</td>
</tr>
<tr>
<td>Smeeton, Nigel</td>
<td>234</td>
<td>PO1:8</td>
<td>53, 89</td>
</tr>
<tr>
<td>Smeets, Leo C.</td>
<td>185</td>
<td>PO1:30</td>
<td>53, 89</td>
</tr>
<tr>
<td>Soares, Paulo</td>
<td>227</td>
<td>PO2:32</td>
<td>59, 113</td>
</tr>
<tr>
<td>Soheib, Yasmine</td>
<td>288</td>
<td>PO1:48</td>
<td>53, 89</td>
</tr>
<tr>
<td>Soheb, Virginia</td>
<td>202</td>
<td>PO2:26</td>
<td>59, 113</td>
</tr>
<tr>
<td>Sokullu, Ayse</td>
<td>228</td>
<td>PO2:8</td>
<td>59, 113</td>
</tr>
<tr>
<td>Soufia, Michel</td>
<td>125</td>
<td>OP5:1</td>
<td>50, 81</td>
</tr>
<tr>
<td>Sousa, Carlos</td>
<td>169</td>
<td>PO2:1</td>
<td>59, 113</td>
</tr>
<tr>
<td>Sousa, Susana Gama</td>
<td>227</td>
<td>PO2:32</td>
<td>59, 113</td>
</tr>
<tr>
<td>Sousa, Teresa</td>
<td>129, 131</td>
<td>OP3:4, OP3:7</td>
<td>48, 73</td>
</tr>
<tr>
<td>Spilka, Stanislav</td>
<td>252</td>
<td>PO2:37</td>
<td>59, 113</td>
</tr>
<tr>
<td>Stefanescu, Ana</td>
<td>264</td>
<td>PO2:28</td>
<td>59, 113</td>
</tr>
<tr>
<td>Stevens, Gonneke. W.J.M</td>
<td>209</td>
<td>OP5:2</td>
<td>50, 81</td>
</tr>
<tr>
<td>Straticiuc, Sergiu</td>
<td>203</td>
<td>OP4:2</td>
<td>49, 78</td>
</tr>
<tr>
<td>Suominen, Sakari</td>
<td>239</td>
<td>OP6:6</td>
<td>51, 85</td>
</tr>
<tr>
<td>Sur, Genel</td>
<td>223</td>
<td>PO2:6</td>
<td>59, 113</td>
</tr>
<tr>
<td>Sur, Maria Lucia</td>
<td>223</td>
<td>PO2:6</td>
<td>59, 113</td>
</tr>
<tr>
<td>Surveillance Team, Turkish</td>
<td>163</td>
<td>OP4:8</td>
<td>49, 78</td>
</tr>
<tr>
<td>Meningitis</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Author</td>
<td>Paper</td>
<td>Session</td>
<td>Page</td>
</tr>
<tr>
<td>Surviladze, Maia</td>
<td>267, 273</td>
<td>PO1:18, PO1:20, PO1:19</td>
<td>53, 89</td>
</tr>
<tr>
<td>Sutarina, Nora</td>
<td>283</td>
<td>PO1:23</td>
<td>53, 89</td>
</tr>
<tr>
<td>Swinburne, Craig</td>
<td>197</td>
<td>PO2:36</td>
<td>59, 113</td>
</tr>
<tr>
<td>T</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Tabak, Izabela</td>
<td>224</td>
<td>OP5:4</td>
<td>50, 81</td>
</tr>
<tr>
<td>Taha, Eshraga</td>
<td>181</td>
<td>PO1:25</td>
<td>53, 89</td>
</tr>
<tr>
<td>Teixeira, Sandra</td>
<td>169, 255</td>
<td>PO2:1, PO2:27</td>
<td>59, 113</td>
</tr>
<tr>
<td>Temel, Ozlem</td>
<td>165</td>
<td>PO2:43</td>
<td>59, 113</td>
</tr>
<tr>
<td>Tifina, Minyar</td>
<td>133, 268, 284, 219</td>
<td>PO1:31, PO3:3, 59, 113</td>
<td>59, 113</td>
</tr>
<tr>
<td>Tješić-Drinković, Duška</td>
<td>186</td>
<td>PO1:14</td>
<td>53, 89</td>
</tr>
<tr>
<td>Tkachenko, Natalia</td>
<td>215</td>
<td>PO1:28</td>
<td>53, 89</td>
</tr>
<tr>
<td>Toaimah, Fathi Hassan</td>
<td>139</td>
<td>OP6:1</td>
<td>51, 85</td>
</tr>
<tr>
<td>Trifa, Adrian</td>
<td>264</td>
<td>PO2:28</td>
<td>59, 113</td>
</tr>
<tr>
<td>Tsynchyk, Julia</td>
<td>295</td>
<td>PO2:24</td>
<td>53, 89</td>
</tr>
<tr>
<td>Turner, Andrew</td>
<td>237</td>
<td>PO1:50</td>
<td>53, 89</td>
</tr>
<tr>
<td>Tzonzarova, Margarita</td>
<td>254</td>
<td>PO1:10</td>
<td>53, 89</td>
</tr>
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<tr>
<td>Urazaleva, Natali</td>
<td>112</td>
<td>PO1:27</td>
<td>53, 89</td>
</tr>
<tr>
<td>Uysal, Omer</td>
<td>156</td>
<td>PO1:13</td>
<td>53, 89</td>
</tr>
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<td>V</td>
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<tr>
<td>Välimaa, Raiili</td>
<td>239</td>
<td>OP6:6</td>
<td>51, 85</td>
</tr>
<tr>
<td>van der Leey, Nicolaas</td>
<td>109</td>
<td>OP2:3</td>
<td>47, 70</td>
</tr>
<tr>
<td>Van der Ploeg, Tjeerd</td>
<td>185</td>
<td>PO1:30</td>
<td>53, 89</td>
</tr>
<tr>
<td>van Dijk, Jitse</td>
<td>175</td>
<td>OP3:1</td>
<td>48, 73</td>
</tr>
<tr>
<td>van Hoof, Joris</td>
<td>109</td>
<td>OP2:3</td>
<td>47, 70</td>
</tr>
<tr>
<td>Vantarakis, Apostoles</td>
<td>190</td>
<td>PO1:41</td>
<td>53, 89</td>
</tr>
<tr>
<td>Versteegh, Florens G.A.</td>
<td>185</td>
<td>PO1:30</td>
<td>53, 89</td>
</tr>
<tr>
<td>Victor, Suresh</td>
<td>127</td>
<td>OP4:5</td>
<td>49, 78</td>
</tr>
<tr>
<td>Veira, José Pedro</td>
<td>276</td>
<td>PO2:21</td>
<td>59, 113</td>
</tr>
<tr>
<td>Veira, Lucilia</td>
<td>169</td>
<td>PO2:1</td>
<td>59, 113</td>
</tr>
<tr>
<td>Vilan, Ana</td>
<td>227</td>
<td>PO2:32</td>
<td>59, 113</td>
</tr>
<tr>
<td>Villafuerte-Díaz, Ana</td>
<td>243</td>
<td>PO1:1</td>
<td>53, 89</td>
</tr>
<tr>
<td>Vishal, Gaurav</td>
<td>245</td>
<td>PO2:9</td>
<td>59, 113</td>
</tr>
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<tr>
<td>Wallis, Maybelle</td>
<td>196</td>
<td>PO2:41</td>
<td>59, 113</td>
</tr>
<tr>
<td>Walsh, Sophie D.</td>
<td>209</td>
<td>OP5:2</td>
<td>50, 81</td>
</tr>
<tr>
<td>Will, A M</td>
<td>242</td>
<td>OP1:9</td>
<td>46, 66</td>
</tr>
<tr>
<td>Williamson, Luke</td>
<td>218</td>
<td>PO2:22</td>
<td>59, 113</td>
</tr>
<tr>
<td>Willis, Courtney Lynn</td>
<td>273</td>
<td>OP2:7</td>
<td>47, 70</td>
</tr>
<tr>
<td>Winnickworth, Lucinda C</td>
<td>168</td>
<td>OP6:5</td>
<td>51, 85</td>
</tr>
<tr>
<td>Wishaupt, Jerome O.</td>
<td>185</td>
<td>PO1:30</td>
<td>53, 89</td>
</tr>
<tr>
<td>Wood, Damian</td>
<td>237</td>
<td>PO1:50</td>
<td>53, 89</td>
</tr>
<tr>
<td>Author</td>
<td>Paper</td>
<td>Session</td>
<td>Page</td>
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<tr>
<td>Wray, Jo</td>
<td>296</td>
<td>PO2:38</td>
<td>59, 113</td>
</tr>
<tr>
<td>X</td>
<td>132</td>
<td>PO2:49</td>
<td>59, 113</td>
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<td>Xhelili, Luan</td>
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<td>Y</td>
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<td>Yalcin, Siddika Songul</td>
<td>287</td>
<td>OP3:3</td>
<td>48, 73</td>
</tr>
<tr>
<td>Yalcin, Suzan</td>
<td>287</td>
<td>OP3:3</td>
<td>48, 73</td>
</tr>
<tr>
<td>Yarden-Bilavsky, Hazina</td>
<td>282</td>
<td>OP6:3</td>
<td>51, 85</td>
</tr>
<tr>
<td>Yasar, Ayse</td>
<td>149, 147</td>
<td>PO1:37,</td>
<td>53, 89,</td>
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<td>PO2:46</td>
<td>59, 113</td>
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<td>Yazar, Ahmet Sami</td>
<td>135, 145</td>
<td>PO1:38,</td>
<td>53, 89,</td>
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<td>149, 138</td>
<td>PO1:36,</td>
<td>59, 113</td>
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<td>147, 165</td>
<td>PO1:37,</td>
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<td>188</td>
<td>PO2:44,</td>
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<tr>
<td>Yeter, Guilan</td>
<td>184</td>
<td>PO2:42</td>
<td>59, 113</td>
</tr>
<tr>
<td>Yilgwan, Christopher</td>
<td>290</td>
<td>PO2:35</td>
<td>59, 113</td>
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<tr>
<td>Yuksel, Eray</td>
<td>156</td>
<td>PO1:13</td>
<td>53, 89</td>
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<td>Yilgwan, Christopher</td>
<td>290</td>
<td>PO2:35</td>
<td>59, 113</td>
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<td>Yuksel, Eray</td>
<td>156</td>
<td>PO1:13</td>
<td>53, 89</td>
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<tr>
<td>Zavalami, Ferit</td>
<td>102</td>
<td>PO2:17</td>
<td>59, 113</td>
</tr>
<tr>
<td>Zogbhi, Sylvana Antoine</td>
<td>118</td>
<td>OP2:6</td>
<td>47, 70</td>
</tr>
<tr>
<td>Zouari, Dhouha</td>
<td>284</td>
<td>PO1:34</td>
<td>53, 89</td>
</tr>
<tr>
<td>Zouari, Noura</td>
<td>133, 219, 268, 284</td>
<td>PO1:31,</td>
<td>53, 59,</td>
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<td></td>
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<td>PO1:33,</td>
<td>89, 113</td>
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GLOBAL COALITION AGAINST CERVICAL CANCER
Genzyme has pioneered the development and delivery of transformative therapies for patients affected by rare and debilitating diseases for over 30 years. We accomplish our goals through world class research, collaboration with the global patient community, and with the compassion and commitment of our employees. With a focus on rare diseases and multiple sclerosis, we are dedicated to making a positive impact on the lives of the patients and families we serve. Genzyme’s portfolio of transformative therapies, represent groundbreaking and lifesaving advances in medicine.
For more than 50 years, parents have trusted Pampers to care for their babies, and this is a responsibility we take to heart. For more than half a century, Pampers has been caring for the happy, healthy development of the world’s babies and, in turn, has grown to become P&G’s biggest brand, with annual net sales of more than $10 billion. Every day Pampers serves more than 25 million babies in more than 100 countries around the world, making Pampers the #1 selling diaper brand of worldwide. Pampers was inspired by babies. In 1956, Vic Mills, a P&G researcher, was inspired by his desire to create a better diaper for his newborn grandson, and his work led to the creation of the brand. Pampers takes great care in developing products that benefit both baby and mom, and we are committed to making a difference in babies’ lives. Thanks to our research, innovation, and quality, parents can count on Pampers’ products to help their babies get the most out of Love, Sleep & Play. Pampers continues to be one of P&G’s fastest growing brands, helping to improve everyday lives for babies and the parents who care for them with a complete range of diapers, wipes and training pants designed to provide protection and comfort for every stage of baby’s development.

Procter & Gamble P&G serves nearly five billion people around the world with its brands. The Company has one of the strongest portfolios of trusted, quality, leadership brands, including Always®, Ambi Pur®, Ariel®, Bounty®, Charmin®, Crest®, Dawn®, Downy®, Duracell®, Fairy®, Febreze®, Gain®, Gillette®, Head & Shoulders®, Lenor®, Olay®, Oral-B®, Pampers®, Pantene®, SK-II®, Tide®, Vicks®, Wella® and Whisper®. The P&G community includes operations in approximately 70.
Award-winning Ddrops® products were created as an option for parents to give their families pure vitamin D – in just one drop!

All Ddrops® products are tasteless, odourless, contain no preservatives, no artificial flavours and no added colours. Ddrops® are wheat-free, gluten-free, soy-free, corn-free, sugar-free, milk-free and peanut-free so everyone in the entire family can take them.

Baby Ddrops® Mini was specifically designed for infants and children in the UK to provide the recommended daily amount of vitamin D in one single, purified drop. Baby Ddrops® Mini is very easy to use and convenient.

Mum simply puts one drop of Baby Ddrops® Mini onto any clean surface (mum’s nipple, fingertip or food) and the child ingests the drop from the surface.

The Mead Johnson Nutrition range of specialist formulas for infants is recommended by healthcare professionals and trusted by parents worldwide. The scientific evidence and clinical experience supporting our brands is unrivalled. Mead Johnson Nutrition provides a complete range of solutions for all cow’s milk allergy needs.

**Nutramigen 1 & 2 with LGG®:** extensively hydrolysed formula with the addition of the branded probiotic, LGG® for infants with cow’s/soy milk allergy.

**Nutramigen® PURAMINO (previously Nutramigen AA):** an amino acid formula for infants with severe cow’s milk allergy and multiple food intolerance.

**Pregestmil®:** extensively hydrolysed formula for infants with cow’s/soy milk allergy/malabsorption.

For HCP support materials on managing CMA, including weaning booklets and milk-free recipes for parents please contact Mead Johnson Careline: 01895 230575 or visit www.nutramigen.co.uk/hcp.

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**EXHIBITORS**

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London is a diverse and exciting city with some of the world’s best sights, attractions and activities. It is a city at the centre of the world – and a world in one city. It has a history stretching back over thousands of years, and boasts four World Heritage Sites: the Palace of Westminster and Westminster Abbey, the Tower of London, Maritime Greenwich and the Royal Botanical Gardens at Kew.

London is the political, economic and cultural capital of Britain, with attractions ranging from Buckingham Palace and the Palace of Westminster to world-class art galleries and museums including the Tate and Tate Modern Galleries, Victoria and Albert, Natural History and Science Museums. London offers some of the world’s best theatre, from world-famous musicals to West End shows and cutting edge plays. It also provides more than 6,000 restaurants catering to all tastes, and shopping which has been ranked by the Globe Shopper City Index as the best in Europe.

About one third of London is devoted to parks and open spaces, so there are plenty of places to relax on fine days. Highlights amongst these are The Royal Parks, as well as Hampstead Heath in North London, which offers amazing views over the city. The river Thames runs through the heart of London, from Richmond in the west, through the central London borough of Westminster, to Greenwich in the east. London’s river cruises and river buses offer a great way to see the city.

Useful Links:
www.visitlondon.com
https://tfl.gov.uk
http://www.royal.gov.uk/theroyalresidences/buckinghampalace/
buckinghampalace.aspx
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http://www.kew.org
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