

PROGRAM

The logo features the letters 'IPR' in a large, bold, sans-serif font. The 'I' is grey, the 'P' is red, and the 'R' is grey. Below the 'P' and 'R' is the year '2021' in a smaller, red, sans-serif font.

THE INTERNATIONAL PEDIATRIC

RADIOLOGY

8TH CONJOINT CONGRESS & EXHIBITION

Rome, October 11 –15, 2021

& Pre-course Colloquia October 10-11, 2021

Building on the Classics: History, Innovation and Inspiration

IPR Presidents: Andrea Rossi - J Damien Grattan-Smith





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IPR 2021

The International Pediatric Radiology 8th Conjoint Congress & Exhibition

October 11 –15, 2021

Pre-course Colloquia October 10-11, 2021

Sunday, October 10, 2021

8:30-17:30 **Registration**

CONCURRENT PRE-COURSE COLLOQUIA

11:00-13:00 **FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM Session I-A**

Moderators: Monica Rebollo (Barcelona, Spain), Mariana Meyers (Aurora, USA)

11:00-11:15 **Explaining ventriculomegaly**

Martin Kyncl (Prague, Czech Republic)

11:15-11:30 **Swimming through the posterior fossa fluid:
how much vermis is enough?**

Giorgio Conte (Milan, Italy)

11:30-11:45 **Dissecting prenatal white matter structure using tractography**

Gregor Kasprian (Vienna, Austria)

11:45-12:00 **Computational atlases of normal fetal brain development**

Camilo Jaimes (Boston, USA)

12:00-12:15 **AI methods for fetal brain assessment: is the machine's brain better
than ours?**

Elka Miller (Ottawa, Canada)

12:15-12:30 **Prenatal assessment of spina bifida – Classic concepts and new insights**

Monica Rebollo (Barcelona, Spain)

12:30-12:45 **Diagnostic dilemmas: multigestational madness and clues on how to image**

Edward Oliver (Philadelphia, USA)

12:45-13:00 **Discussion**



Sunday, October 10, 2021

11:00-13:00 WFPI PRE-COURSE COLLOQUIUM

Session II-A

Epidemics and pandemics – the role of the pediatric radiologist

Moderators: Timothy Cain (Melbourne, Australia),
Joanna Kasznia-Brown (Bristol, UK)

11:00-11:20 **New pediatric lung infections including COVID-19 pneumonia: what radiologists need to know**

Edward Y. Lee (Boston, USA)

11:20-11:40 **Atypical chest infections and mimickers: interactive session**

Winnie Chu (Hong Kong)

11:40-12:00 **The changing picture of HIV infections**

Tracy Kilborn (Cape Town, South Africa)

12:00-12:20 **Malaria - when and how-to image**

Omolola Atalabi (Ibadan, Nigeria)

12:20-12:40 **ZIKA virus - experience from South America**

Pedro Daltro (Brazil)

12:40-13:00 **Discussion**

11:00-13:00 POSTMORTEM PRE-COURSE COLLOQUIUM

Session III-A

The basics

Moderators: Owen Arthurs (London, UK), M. Patricia Harty (Wilmington, USA)

11:00-11:25 **Introduction to post mortem imaging symposium / workshop**

Owen Arthurs (London, UK)

11:25-11:50 **Post mortem imaging for beginners - what, how, why**

Susan Shelmerdine (London, UK)

11:50-12:15 **Fetal imaging: intrauterine vs post mortem**

Michael Aertsen (Leuven, Belgium)

12:15-12:40 **How to set up a service**

Teresa Victoria (Philadelphia, USA)

12:40-13:00 **Discussion**



Sunday, October 10, 2021

11:00-13:00 CHILD ABUSE PRE-COURSE COLLOQUIUM **NOT CME ACCREDITATION** Session IV-A Bones (I)

Moderators: Maria Raissaki (Iraklion, Greece),
Jeanette Perez-Rossello (Boston, USA)

11:00-11:25 **Imaging the MSK system in suspected abuse: who, what and when?**
Jeanette Perez-Rossello (Boston, USA)

11:25-11:50 **Differential diagnoses: accepted and controversial**
Maria Raissaki (Iraklion, Greece)

11:50-12:15 **Is that how it happened? Mechanisms of injury in suspected abuse**
Kate Henry (Philadelphia, USA)

12:15-12:40 **Is that when it happened? Dating fractures in suspected abuse**
Amaka C. Offiah (Sheffield, UK)

12:40-13:00 **Discussion**

11:00-12:00 ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM Session V-A1 Pediatric imaging without sedation

Moderators: Daniel Gräfe (Leipzig, Germany),
Shreyas Vasawala (Stanford, USA)

11:00-11:15 **Accelerated MRI, motion robust sequences & real time motion correction**
Daniel Gräfe (Leipzig, Germany)

11:15-11:30 **Hardware required for widespread adoption of these techniques**
Daniel Gräfe (Leipzig, Germany)

11:30-11:45 **Clinical examples: brain**
Shreyas Vasawala (Stanford, USA)

11:45-12:00 **Clinical examples : abdomen/pelvis**
Shreyas Vasawala (Stanford, USA)

12:00-13:00 ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM Session V-D1 MR Urography

Moderators Sila Kurugol (Boston, USA), Jonathan Dillman (Cincinnati, USA)

12:00-12:15 **Patient preparation and protocol for anatomical information**
Jonathan Dillman (Cincinnati, USA)

12:15-12:30 **Recommended protocol for dynamic imaging and post-processing options**
Sila Kurugol (Boston, USA)

12:30-12:45 **Does MRU provide reliable, quantitative, information on renal function?**
Sila Kurugol (Boston, USA)

12:45-13:00 **Clinical aspects of pediatric MRU**
Jeanne (Mei Mei) Chow (Boston, USA)

13:00-14:15 **Break**

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Sunday, October 10, 2021

14:15-15:45 FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM Session I-B

Moderators: Brandon Brown (Indianapolis, USA), TBD

14:15-14:30 **MR evaluation of fetal lung anomalies**

Marie Cassart (Brussels, Belgium)

14:30-14:45 **Diagnostic dilemmas: abdominal wall defects from the belly button up**

Jennifer Kucera (Florida, USA)

14:45-15:00 **Fetal Abdominal Cystic Lesions. Does Fetal MRI improve the diagnosis?**

Lucia Manganaro (Rome, Italy)

15:00-15:15 **MR use for skeletal dysplasias**

Beth Kline-Fath (Cincinnati, USA)

15:15-15:45 **Discussion**

14:15-15:45 WFPI PRE-COURSE COLLOQUIUM Session II-B Imaging of tuberculosis – past or current problem?

Moderators: Savvas Andronikou (Philadelphia, USA),
Kushaljit Sodhi (Chandigarh, India)

14:15-14:35 **Classical signs of TB – what do I need to know?**

Nasreen Mahomed (Johannesburg, South Africa)

14:35-14:55 **Look beyond the lungs – MSK and CNS involvement**

Bernard Laya (Quezon City, Philippines)

14:55-15:15 **Mimics and pitfalls in imaging of childhood TB**

Jaishree Naidoo (Johannesburg, South Africa)

15:15-15:35 **New imaging approach and future directions in TB imaging**

Kushaljit Sodhi (Chandigarh, India)

15:35-15:45 **Discussion**

14:15-15:45 POSTMORTEM PRE-COURSE COLLOQUIUM Session III-B The technique

Moderators: Owen Arthurs (London, UK), Sharon Gould (Wilmington, USA)

14:15-14:40 **Post mortem MRI - how I do it**

Xin Kang (Brussels, Belgium)

14:40-15:05 **Post mortem ultrasound - how I do it**

Susan Shelmerdine (London, UK)

15:05-15:30 **Post mortem CT - how I do it**

Willemijn Klein (Nijmegen, The Netherlands)

15:30-15:45 **Discussion**



Sunday, October 10, 2021

14:15-15:45 CHILD ABUSE PRE-COURSE COLLOQUIUM **NOT CME ACCREDITATION** Session IV-B **Body, bloods & bones (II)**

Moderators: Rick van Rijn (Amsterdam, The Netherlands),
Sabah Servaes (Philadelphia, USA)

14:15-14:40 **Visceral injury: need for routine liver function tests and/or abdominal ultrasound?**
Sabah Servaes (Morgantown, USA)

14:40-15:05 **Strangulation: is there a role for imaging?**
Rick van Rijn (Amsterdam, The Netherlands)

15:05-15:30 **Normal variants of the skeleton not to be confused with inflicted injury**
Ignasi Barber (Barcelona, Spain)

15:30-15:45 **Discussion**

14:15-15:00 ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM Session V-B1 **Neonatal imaging**

Moderators: Charles Dumoulin (Cincinnati, USA), Orit Glenn (San Francisco, USA)

14:15-14:30 **Optimized protocols for neonatal imaging**
Orit Glenn (San Francisco, USA)

14:30-14:45 **MRI in the NICU**
Charles Dumoulin (Cincinnati, USA)

14:45-15:00 **Diffusion imaging in the neonatal brain**
Yi Li (San Francisco, USA)

15:00-15:45 ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM Session V-B2 **Myelin imaging**

Moderator: Stephen Little (Nashville, USA)

15:00-15:25 **Hunting for epileptogenic zone in epilepsy**
Stephen Little (Nashville, USA)

15:25-15:45 **How accurate is myelin imaging?**
Jonathan O'Muircheartaigh (London, UK)

15:45-16:15 **Break**



Sunday, October 10, 2021

16:00-17:45 FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM Session I-C

Moderators: Teresa Victoria (Philadelphia, USA),
Gabrielle Colleran (Boston, USA)

16:00-16:20 **3T fetal MR imaging: how do we make it work?**
Gregor Kasprian (Vienna, Austria)

16:20-16:40 **Tales from the artificial womb - emerging applications of CE US
in fetal medicine**
Ryne Didier (Philadelphia, USA)

16:40-17:00 **Fetal imaging what the fetal surgeon wants to know**
Amy Mehollin-Ray (Houston, USA)

17:00-17:20 **How to establish a fetal center in Europe**
Gabrielle Colleran (Boston, USA)

17:20-17:45 **Games!!!!**
Lucia Manganaro (Rome, Italy), Monica Epelman (Orlando, USA)

16:15-17:45 WFPI PRE-COURSE COLLOQUIUM Session II-C Paediatric MRI – worldwide approach

Moderators: Wendy Lam (Hong Kong, Hong Kong), Michael Gee (Boston, USA)

16:15-16:35 **Standardisation of paediatric MRI: international initiatives**
Wendy Lam (Hong Kong, Hong Kong)

16:35-16:55 **Challenges in paediatric MRI: technical details I hate, but need to know**
Michael Gee (Boston, USA)

16:55-17:15 **Updates and new approaches in paediatric musculoskeletal MRI**
Ramy Mansour (Oxford, UK)

17:15-17:35 **Oncology and whole body MRI imaging: how and when to achieve
the best results**
Joanna Kasznia-Brown (Bristol, UK)

17:35-17:45 **Discussion**



Sunday, October 10, 2021

16:15-17:45 POSTMORTEM PRE-COURSE COLLOQUIUM

Session III-C

The main findings

Moderators: M. Patricia Harty (Wilmington, USA),
Rick van Rijn (Amsterdam, The Netherlands)

16:15-16:40 Post mortem imaging - CNS

Stacy Goergen (Melbourne, Australia)

16:40-17:05 Post mortem imaging - chest

Willemijn Klein (Nijmegen, The Netherlands)

17:05-17:30 Post mortem imaging - CNS (infratentorial)

Ajay Taranath (Adelaide, Australia)

17:30-17:45 Discussion

16:15-17:45 CHILD ABUSE PRE-COURSE COLLOQUIUM **NOT CME ACCREDITATION**

Session IV-C

Evolving techniques

Moderators: Ignasi Barber (Barcelona, Spain), Safwan Halabi (Stanford, USA)

16:15-16:40 Artificial intelligence

Safwan Halabi (Stanford, USA)

16:40-17:05 Finite element analysis

Andy Tsai (Boston, USA)

17:05-17:30 Micro CT in child abuse

Owen Arthur (London, UK)

17:30-17:45 Discussion

16:15-17:45 ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM

Session V-C

Cardiac MRI

Moderators: Prakash Masand (Houston, USA), Cynthia Rigsby (Chicago, USA)

16:15-16:40 Overview

Prakash Masand (Houston, USA)

16:40-17:05 4D Flow: standardization and applications

Julia Geiger (Zurich, Switzerland)

17:05-17:30 Pediatric cardiac MR - what to expect in the next 5 years

Lorna Browne (Aurora, USA)

17:30-17:45 Discussion



Monday, October 11, 2021

8:30-17:30 **Registration**

CONCURRENT PRE-COURSE COLLOQUIA

8:30-10:00 FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM Session I-D

Moderators: Mariana Meyers (Aurora, USA), Gabrielle Colleran (Boston, USA)

8:30-8:55 **Normal placenta imaging**
Gabrielle Colleran (Boston, USA)

8:55-9:20 **Abnormal placenta imaging**
Mariana Meyers (Aurora, USA)

9:20-10:00 **Real time scrolling through cases**
Gabrielle Colleran (Boston, USA), Mariana Meyers (Aurora, USA)

8:30-10:00 WFPI PRE-COURSE COLLOQUIUM Session II-D Pediatric ultrasound – who, how and where (WFPI)

Moderators: Savvas Andronikou (Philadelphia, USA),
Jovan Lovrenski (Novi Sad, Serbia)

8:30-8:50 **Point-of-care ultrasound initiatives - the bridge to health partnership
experience and beyond**
Hansel Otero (Philadelphia, USA)

8:50-9:10 **Training initiatives and task shifting in Africa**
Kristen Destigter (Burlington, USA)

9:10-9:30 **RAD-AID: bringing pediatric radiology to low-resource areas**
Jonathan Zember (Washington, USA)

9:30-9:50 **New techniques and equipment – value and challenges**
Jeevesh Kapur (Singapore)

9:50-10:00 **Discussion**

8:30-10:00 POSTMORTEM PRE-COURSE COLLOQUIUM Session III-D Reporting and correlating with pathology

Moderators: Michael Aertsen (Leuven, Belgium),
Teresa Victoria (Philadelphia, USA)

8:30-8:55 **Template reporting**
Susan Shelmerdine (London, UK)

8:55-9:20 **Tissue sampling - minimally invasive autopsy**
Ciaran Hutchinson (London, UK)

9:20-9:45 **Mock MDT: radio-pathological correlation**
Michael Aertsen (Leuven, Belgium)

9:45-10:00 **Discussion**

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Monday, October 11, 2021

8:30-10:00 CHILD ABUSE PRE-COURSE COLLOQUIUM **NOT CME ACCREDITATION** Session IV-D Brain

Moderators Kshitij Mankad (London, UK), Rahul Nikam (Wilmington, USA)

8:30-8:50 **Venous injury**
Nadine Girard (Marseille, France)

8:50-9:10 **Parenchymal injury**
Kshtij Mankad (London, UK)

9:10-9:30 **Spine injury**
Arabinda Choudhary (Little Rock, USA)

9:30-9:50 **Metabolic imaging**
Rahul Nikam (Wilmington, USA)

9:50-10:00 **Discussion**

8:30-9:15 ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM Session V-A2 MR fingerprinting & quantitative MR

Moderators: Lawrence Wald (Boston, USA), Safwan Halabi (Stanford, USA)

8:30-8:45 **MR fingerprinting, synthetic MRI**
Lawrence Wald (Boston, USA)

8:45-9:00 **How well do synthetic images match acquired images in patients with pathology?**
Safwan Halabi (Stanford, USA)

9:00-9:15 **What spatial resolution is adequate for clinical MR fingerprinting?**
Safwan Halabi (Stanford, USA)

9:15-10:00 ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM Session V-D2 Arterial spin labeling (ASL) perfusion

Moderators Arastoo Vossough (Philadelphia, USA),
Mattihias Van Osch (Leiden, The Netherlands)

9:15-9:30 **Recommended labelling method and merits of 2D/3D acquisitions**
Mattihias Van Osch (Leiden, The Netherlands)

9:30-9:45 **Single or multiple delays for clinical studies? Labelling efficiency and other sources of error**
Mattihias Van Osch (Leiden, The Netherlands)

9:45-10:00 **Advantages and disadvantages compared to DSC perfusion**
Arastoo Vossough (Philadelphia, USA)

10:00-10:30 **Break**



Monday, October 11, 2021

10:30-12:00 FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM

Session I-E

Moderators:

- 10:30-10:50 **Advanced placental MRI imaging**
Michael Aertsen (Leuven, Belgium)
- 10:50-11:15 **Development of new MRI sequences for placenta imaging**
Lawrence Wald (Boston, USA)
- 11:15-11:40 **Newest advances in placenta research**
Ellen Grant (Boston, USA)
- 11:40-12:00 **Challenging placental MR cases from around the world**
Brandon Brown (Indianapolis, USA)

10:30-12:00 WFPI PRE-COURSE COLLOQUIUM

Session II-E

Paediatric ultrasound – forgotten tool

Moderators: Bernard Laya (Quezon City, The Philippines),
Tracy Kilborn (Cape Town, South Africa)

- 10:30-10:45 **Value of neuro ultrasound**
Sanjay Prabhu (Boston, USA)
- 10:45-11:00 **Chest ultrasound: yes, we can see it**
Jovan Lovrenski (Novi Sad, Serbia)
- 11:00-11:15 **Ultrasound for diagnosing tuberculosis**
Savvas Andronikou (Philadelphia, USA)
- 11:15-11:30 **New recommendations in abdominal imaging**
Joanna Kasznia-Brown (Bristol, UK)
- 11:30-11:45 **Musculoskeletal imaging: when to replace x-rays and MRIs?**
Ramy Mansour (Oxford, UK)
- 11:45-12:00 **Discussion**

10:30-12:00 POSTMORTEM PRE-COURSE COLLOQUIUM

Session III-E

Moderators: Owen Arthurs (London, UK), Teresa Victoria (Philadelphia, USA)

- 10:30-10:55 **Post mortem MRI - case examples with interactive voting**
Susan Shelmerdine (London, UK)
- 10:55-11:45 **Bring your own cases - audience participation**
Susan Shelmerdine (London UK)
- 11:45-12:00 **Conclusions**
Owen Arthurs (London, UK)



Monday, October 11, 2021

10:30-12:00 CHILD ABUSE PRE-COURSE COLLOQUIUM **NOT CME ACCREDITATION** Session IV-E Medico-Legal

Moderators: Amaka C. Offiah (Sheffield, UK),
Arabinda Choudhary (Little Rock, USA)

10:30-10:55 **What do the lawyers want?**

Joelle Moreno (Miami, USA)

10:55-11:20 **What does the judge want?**

Domenico Airoma (Naples, Italy)

11:20-11:45 **What does the radiologist want?**

Adam Oates (Birmingham, UK)

11:45-12:00 **Discussion**

10:30-11:15 ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM Session V-E1 A physician's guide to DTI

Moderators: Jacques Donald Tournier (London, UK),
Avner Meoded (Houston, USA)

10:30-10:55 **Choice of sequence and data analysis considerations details**

Jacques Donald Tournier (London, UK)

10:55-11:15 **Clinical trade offs : time spent versus information gained**

Avner Meoded (Houston, USA)

11:15-12:00 ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM Session V-E2 Neuro Oncology: the role of MRI in the treatment of pediatric brain tumors

Moderators: Zoltan Patay (Memphis, USA),
Marion Smits (Rotterdam, The Netherlands)

11:15-11:30 **Recommended protocols for, and relative merits of, DSC and/or DCE**

Zoltan Patay (Memphis, USA)

11:30-11:45 **Protocols for DWI/DTI/DKI/multi-shell diffusion, APT, MT & Spectroscopy**

Zoltan Patay (Memphis, USA)

11:45-12:00 **Clinical assessment of treatment response**

Marion Smits (Rotterdam, The Netherlands)

12:00-13:00 **Break**



Monday, October 11, 2021

13:00-14:50 CATEGORICAL COURSE I-A

Neuro/head&neck: the essentials

Moderators: ESPR & SPR

- 13:00-13:18 **Brain and spine ultrasound made simple**
Maria Argyropoulou (Ioannina, Greece)
- 13:18-13:36 **Emergency head imaging: problems unique to children**
TBD
- 13:36-13:54 **Emergency neck imaging: lumps and bumps**
Felice D'Arco (London, UK)
- 13:54-14:12 **Ventriculomegaly: when do I worry?**
Asha Sarma (Nashville, USA)
- 14:12-14:30 **Congenital spinal abnormalities: dysraphisms for dummies**
Erin Simon Schwartz (Philadelphia, USA)
- 14:30-14:48 **Brain things you can't miss (cases)**
Maria Camilla Rossi-Espagnet (Rome, Italy)

13:00-14:50 CATEGORICAL COURSE I-B

Cardiac: tips for specialists

Moderators: ESPR & SPR

- 13:00-13:18 **Fast and functional: the latest imaging techniques**
Prakash Masand (Houston, USA)
- 13:18-13:36 **Aortic and cardiac emergencies: what to look out for**
Ricardo Budde (Rotterdam, The Netherlands)
- 13:36-13:54 **Quantitative biomarkers in cardiac imaging**
Cynthia Rigsby (Chicago, USA)
- 13:54-14:12 **Advances in MR angiography for CHD**
Paul Finn (California, USA)
- 14:12-14:30 **Pediatric sudden cardiac death**
Rajesh Krishnamurthy (Columbus, USA)
- 14:30-14:48 **Fetal cardiac imaging and what to do - (cases)**
Christopher Roy

15:00-15:30 **Break**



Monday, October 11, 2021

15:30-16:50 CATEGORICAL COURSE II-A Cardiac: the essentials

Moderators: ESPR & SPR

15:30-15:46 **Congenital heart disease - removing the fear
(for idiots/beginners/dummies)**

Lorna Browne (Aurora, USA)

15:46-16:02 **Common congenital heart disease surgeries and their imaging**

Christian Kellenberger (Zurich, Switzerland)

16:02-16:18 **Vascular rings and slings**

Aurelio Secinaro (Rome, Italy)

16:18-16:34 **How to spot cardiac disease on chest radiographs (cases)**

Eilish Twomey (Dublin, Ireland)

16:34-16:50 **How to perform cardiac CT without sedation in neonates and infants**

Taylor Chung (San Francisco, USA)

15:30-16:50 CATEGORICAL COURSE II-B Neuro/head&neck: tips for specialists

Moderators: ESPR & SPR

15:30-15:46 **Spinal cord manifestations of inborn errors of metabolism and myelin disorders**

Paul Caruso (Boston, USA)

15:46-16:18 **Changing landscape of inherited white matter disease**

Marjo van der Knaap (Amsterdam, The Netherlands)

16:18-16:34 **Advanced imaging techniques in pediatric head and neck**

Mai-lan Ho (Columbus, USA)

16:34-16:50 **Pediatric neuro: wild and crazy (cases)**

Victoria Michelle Silvera (Rochester, USA)

17:00-17:30 **Opening Ceremony and Guy Sebag Award**

Drs Andrea Rossi (ESPR) and Damien Grattan-Smith (SPR)

17:30-19:00 **Opening Lectures & Round Table**

19:00 *Adjourn*

19:00-22:00 *Welcome Reception*



Tuesday, October 12, 2021

- 7:00-8:30 **Breakfast**
- 7:00-18:00 **Registration**
- 7:50-8:00 **Welcome and Announcements**

8:00-9:30 **CATEGORICAL COURSE III-A** **Musculoskeletal: the essentials**

Moderators: ESPR & SPR

- 8:00-8:18 **Hip pain in children - a beginners guide**
Laura Tanturri De Horatio (Rome, Italy)
- 8:18-8:36 **The mimickers of malignancy**
Süreyya Burcu Görkem (Kayseri, Turkey)
- 8:36-8:54 **Commonly missed fractures**
Mahesh Thapa (Seattle, USA)
- 8:54-9:12 **Child abuse refresher**
Jeannette Perez-Rossello (Boston, USA)
- 9:12-9:30 **Aunt Minnie images (cases)**
Ignasi Barber (Barcelona, Spain)

8:00-9:30 **CATEGORICAL COURSE III-B** **Gastrointestinal: tips for specialists**

Moderators: ESPR & SPR

- 8:00-8:18 **Liver tumors: from foetus to adolescent**
Philippe Petit (Marseille, France)
- 8:18-8:36 **Functional bowel imaging: MR and CEUS**
Michael Gee (Boston, USA)
- 8:36-8:54 **US and MR elastography in the abdomen: the liver and beyond**
Seema Toso (Geneva, Switzerland)
- 8:54-9:12 **How to use bubbles in the abdomen (VUR, trauma, cloaca)**
Susan Back (Philadelphia, USA)
- 9:12-9:30 **Current controversies in MR enterography**
Kriti Gwal (San Diego, USA)

9:30-10:00 **Break**



Tuesday, October 12, 2021

10:00-11:45 SCIENTIFIC SESSION I-A:

NEURO - Cutting edge imaging of the neonatal brain

Moderators: ESPR & SPR

10:00-10:15 Have we perfected basic brain imaging or is there something new to know?

Maarten Lequin (Utrecht, The Netherlands)

10:15-11:30 SCIENTIFIC PAPERS

10:15-10:23 HIGH-RESOLUTION NEUROSONOGRAPHIC EXAMINATION OF THE LENTICULOSTRIATE VESSELS IN NEONATES WITH HYPOXIC-ISCHEMIC ENCEPHALOPATHY

Shawn Lyo ^(1,2), Luis Octavio Tierradentro-Garcia ⁽²⁾, Angela Viaene ⁽³⁾, Misun Hwang ^(2,4)

⁽¹⁾ Department of Radiology, SUNY Downstate Health Sciences University, Brooklyn, NYC (UNITED STATES), ⁽²⁾ Department of Radiology, Children's Hospital of Philadelphia, Philadelphia (UNITED STATES), ⁽³⁾ Department of Pathology and Laboratory Medicine, Children's Hospital of Philadelphia, University of Pennsylvania, Philadelphia (UNITED STATES), ⁽⁴⁾ Department of Radiology, Perelman School of Medicine, University of Pennsylvania, Philadelphia (UNITED STATES)

10:23-10:31 NEONATAL DEVELOPMENTAL VENOUS ANOMALIES: CLINICAL-RADIOLOGICAL CHARACTERIZATION AND FOLLOW-UP

Ana Geraldo ⁽¹⁾, Simona Messina ⁽²⁾, Domenico Tortora ⁽³⁾, Alessandro Parodi ⁽⁴⁾, Mariya Malova ⁽⁴⁾, Giovanni Morana ⁽³⁾, Carlo Gandolfo ⁽⁵⁾, Alessandra D'Amico ⁽⁶⁾, Ellen Herkert ⁽⁷⁾, Paul Govaert ⁽⁷⁾, Luca Ramenghi ⁽⁴⁾, Andrea Rossi ⁽³⁾, Mariasavina Severino ⁽³⁾

⁽¹⁾ Diagnostic Neuroradiology Unit, Imaging department, Vila Nova de Gaia (PORTUGAL), ⁽²⁾ Radiology Unit, Casa di Cura Regina Pacis, Palermo (ITALY), ⁽³⁾ Neuroradiology Unit, IRCCS Istituto Giannina Gaslini, Genoa (ITALY), ⁽⁴⁾ Neonatal Intensive Care Unit, IRCCS Istituto Giannina Gaslini, Genoa (ITALY), ⁽⁵⁾ Interventional Unit, IRCCS Istituto Giannina Gaslini, Genoa (ITALY), ⁽⁶⁾ Dipartimento di Scienze Biomediche Avanzate, Università Federico II Napoli, Napoli (ITALY), ⁽⁷⁾ Division of Neonatology, Department of Paediatrics, Erasmus University Medical Centre, Rotterdam (THE NETHERLANDS)

10:31-10:39 EXPANDING THE SPECTRUM OF NEONATE SUBPIAL HEMORRHAGE: MORE COMMON THAN YOU THINK

Joanne Rispoli ⁽¹⁾, Sanjay Prabhu ⁽²⁾

⁽¹⁾ NYU Langone Health, New York City (USA), ⁽²⁾ Boston Children's Hospital, Boston (USA)



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- 10:39-10:47 **CEREBELLAR HEMORRHAGE IN EXTREMELY PREMATURE INFANTS COMPARED TO VERY PREMATURE INFANTS**
Elizabeth Snyder, Sumit Pruthi, Marta Hernanz-Schulman
Monroe Carell Jr. Children's Hospital at Vanderbilt, Department of Radiology, Nashville, TN (USA)
- 10:47-10:55 **PERI-ROLANDIC INVOLVEMENT IN HYPOXIC ISCHEMIC INJURY MAY ALSO OCCUR WITH PARTIAL PROLONGED INSULTS**
Anilawan S. Fleury, Savvas Andronikou
Children's Hospital of Philadelphia, Radiology department, Philadelphia (USA)
- 10:55-11:03 **INTRANASAL DEXMEDETOMIDINE FOR SEDATION OF CHILDREN IN MRI-EXAMINATION.**
Gabiella Lewis, Maria Liljeroth, Sandra Diaz ^(1,2)
⁽¹⁾ *Karolinska University Hospital, Stockholm (SWEDEN)*, ⁽²⁾ *Skanes University Hospital, Lund (SWEDEN)*
- 11:03-11:11 **DROP IN SEDATION EXAMINATIONS BY ADOPTING REAL-TIME CMRI SEQUENCES**
Daniel Gräfe ⁽¹⁾, Ina Sorge ⁽¹⁾, Dirk Voit ⁽²⁾, Jens Frahm ⁽²⁾, Matthias Krause ⁽³⁾, Christian Roth ⁽¹⁾, Peter Zimmermann ⁽⁴⁾, Franz Wolfgang Hirsch ⁽¹⁾
⁽¹⁾ *University Hospital Leipzig - Pediatric Radiology, Leipzig (GERMANY)*, ⁽²⁾ *Biomedizinische NMR - Max-Planck-Institut für biophysikalische Chemie, Göttingen (GERMANY)*, ⁽³⁾ *University Hospital Leipzig - Neurosurgery, Leipzig (GERMANY)*, ⁽⁴⁾ *University Hospital Leipzig - Pediatric Surgery, Leipzig (GERMANY)*
- 11:11-11:19 **PORTABLE LOW FIELD STRENGTH MRI: PRELIMINARY EXPERIENCE IN NEONATES AND CHILDREN**
Johnston Fite, Amie Robinson, Maura Sien, Amit Jain, Harry Hu ⁽³⁾, John Pitts ⁽³⁾, Sherwin Chan ^(1,2)
⁽¹⁾ *Children's Mercy Hospital, Kansas City (USA)*, ⁽²⁾ *University of Missouri Kansas City, Kansas City (USA)*, ⁽³⁾ *Hyperfine, Guilford (USA)*
- 11:19-11:27 **SIBLING SCREENING IN SUSPECTED ABUSIVE HEAD TRAUMA: A PROPOSED GUIDELINE**
Kshitij Mankad ⁽¹⁾, Jai Sidpra ⁽²⁾, Adam J Oates ⁽³⁾, Alistair Calder ⁽¹⁾, Amaka C. Offiah ⁽⁴⁾, Arabinda K. Choudhary ⁽⁵⁾
⁽¹⁾ *Department of Radiology, Great Ormond Street Hospital for Children NHS Foundation Trust, London (UNITED KINGDOM)*, ⁽²⁾ *University College London Medical School, London (UNITED KINGDOM)*, ⁽³⁾ *Department of Radiology, Birmingham Childrens Hospital, Birmingham (UNITED KINGDOM)*, ⁽⁴⁾ *Academic Unit of Child Health, University of Sheffield, Western Bank, Sheffield (UNITED KINGDOM)*, ⁽⁵⁾ *Department of Radiology, University of Arkansas for Medical Sciences, Little Rock (USA)*
- 11:30-11:45 **Can we improve our imaging protocols?**
Orit Glenn (San Francisco, USA)



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10:00-11:45 SCIENTIFIC SESSION I-B: CARDIAC - 3D MR imaging of the fetal heart

Moderators: ESPR & SPR

10:00-10:15 **3D MR for early assessment of congenital heart disease**
Mike Seed (Toronto, Canada)

10:15-11:30 SCIENTIFIC PAPERS

10:15-10:23 **CHEST IMAGING IN CHILDREN WITH COVID-19, A SYSTEMATIC REVIEW**

Monica Miranda Schaeubinger ⁽¹⁾, Karen Ramirez Suarez ⁽¹⁾, Jordan Rapp ⁽¹⁾, David Saul ⁽²⁾, Kushaljit Sodhi ⁽³⁾, Savvas Andronikou ⁽¹⁾

⁽¹⁾ Children's Hospital of Philadelphia, Department of Radiology, Philadelphia, PA (USA), ⁽²⁾ Nemours/Alfred I. DuPont Hospital for Children, Wilmington, DE (USA), ⁽³⁾ Postgraduate Institute of Medical Education and Research, Department of Radio Diagnosis and Imaging, Chandigarh (INDIA)

10:23-10:31 **CHEST IMAGING IN COVID-19 INFECTION IN CHILDREN: A DIAGNOSTIC CROSS-SECTIONAL STUDY**

Mark Bishay ⁽¹⁾, Richard Gagen ⁽¹⁾, Zhia Lim ⁽²⁾, Lisa van Geyzel ⁽²⁾, Deepthi Jyothish ⁽²⁾, Simon McGuirk ⁽¹⁾

⁽¹⁾ Birmingham Children's Hospital - Department of Radiology, Birmingham (UNITED KINGDOM), ⁽²⁾ Birmingham Children's Hospital - Department of Paediatrics, Birmingham (UNITED KINGDOM)

10:31-10:39 **PREVALENCE AND PATTERN OF THROMBOEMBOLIC DISEASE IN PEDIATRIC PATIENTS WITH COVID-19**

Ivey Royall, HaiThuy Nguyen, Marla Sammer
Texas Children's Hospital, Houston (USA)

10:39-10:47 **CHEST IMAGING IN PAEDIATRIC MULTISYSTEM INFLAMMATORY SYNDROME – TEMPORALLY ASSOCIATED WITH SARS-COV-2(PIMS-TS)**

Rebecca Spruce, Dipalee Durve, Shema Hameed, Alice Roueche, James Wong, Mario Sa, Evelina PIMS TS Working Group
Evelina London Children's Hospital, London (UNITED KINGDOM)

10:47-10:55 **LOW DOSE LUNG CT – PUSHING FOR THE LOWEST RADIATION DOSE NECESSARY FOR ENSURING ADEQUATE DIAGNOSTIC IMAGE QUALITY IN CHILDREN**

Michael Zellner ⁽¹⁾, Sebastian Tschauner ⁽⁴⁾, Mathias S. Weyland ⁽²⁾, Gerd Lutters ⁽³⁾, Ismail Özden ⁽³⁾, Stephan Scheidegger ⁽²⁾, Christian Kellenberger ⁽¹⁾

⁽¹⁾ University Children's Hospital, Zurich (SWITZERLAND), ⁽²⁾ Zürich University of Applied Sciences, Winterthur (SWITZERLAND), ⁽³⁾ Cantonal Hospital Aarau AG, Aarau (SWITZERLAND), ⁽⁴⁾ Medical University of Graz, Graz (AUSTRIA)



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- 10:55-11:03 **LOW DOSE LIMITED REGION CHEST CT FOR PREOPERATIVE EVALUATION OF PECTUS EXCAVATUM**
Grace Ma, Dorothy Bulas, Sunil Valaparla, Timothy Kane, Mikael Petrosyan, Jeffrey Lukish
Children's National Hospital, Washington (USA)
- 11:03-11:11 **CT AND MRI FINDINGS OF LYMPHOID THYMIC HYPERPLASIA AND THYMOMA IN CHILDREN**
Karen I. Ramirez-Suarez, David M. Biko ^(1,2), Rebecca A. Dennis ^(1,2), Hansel J. Otero ^(1,2), Ammie M. White ^(1,2), Jordan B Rapp ^(1,2)
⁽¹⁾ Department of Radiology, Children's Hospital of Philadelphia, 3401 Civic Center Blvd, Philadelphia, PA, 19104 (USA), ⁽²⁾ University of Pennsylvania, Perelman School of Medicine, Philadelphia, PA, 19104 (USA)
- 11:11-11:19 **CORRELATION BETWEEN CLINICAL PRESENTATION, HIGH RESOLUTION COMPUTED TOMOGRAPHY (HRCT) FINDINGS AND HISTOLOGIC FINDINGS IN CHILDREN'S INTERSTITIAL LUNG DISEASE (CHILD)**
Chiara Sileo ⁽¹⁾, Nadia Nathan ⁽²⁾, Annick Clement ⁽³⁾, Aurore Coulomb L. Herminé ⁽⁴⁾, Hubert Ducou le Pointe ⁽⁵⁾
⁽¹⁾ APHP Hôpital Trousseau, Sorbonne Université - Pediatric Radiology Department, Paris, France, Paris (FRANCE), ⁽²⁾ APHP Hôpital Trousseau, Sorbonne Université - Pediatric Pulmonology Department, Paris, France, Paris (FRANCE), ⁽³⁾ APHP Hôpital Trousseau, Sorbonne Université - Pediatric Pulmonology Department, Paris, France, Paris (FRANCE), ⁽⁴⁾ APHP Hôpital Trousseau, Sorbonne Université - Pediatric Histopathology Department, Paris, France, Paris (FRANCE), ⁽⁵⁾ APHP Hôpital Trousseau, Sorbonne Université - Pediatric Radiology Department, Paris, France, Paris (FRANCE)
- 11:19-11:27 **THE ROLE OF THE DIFFUSION-WEIGHTED IMAGING (DWI) IN THE DIAGNOSIS OF PULMONARY COLONIZATION BY PSEUDOMONAS AERUGINOSA**
Alessandra Ottavianelli ⁽¹⁾, Teresa Pia Santangelo ⁽²⁾, Maria Luisa Mennini ⁽¹⁾, Davide Curione ⁽¹⁾, Veronica Bordonaro ⁽¹⁾, Paolo Tomà ⁽¹⁾, Aurelio Secinaro ⁽²⁾
⁽¹⁾ Department of Imaging Bambino Gesù Children Hospital IRCCS, Rome (ITALY), ⁽²⁾ Advanced Cardiovascular Imaging Unit Department of Imaging, Bambino Gesù Children Hospital IRCCS, Rome (ITALY)
- 11:30-11:45 **Moving forward: cardiac MR versus echo**
Tim Leiner (Utrecht, The Netherlands)



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10:00-11:45 SCIENTIFIC SESSION I-C: GENITOURINARY - Updates: genetic causes of renal abnormalities

Moderators: ESPR & SPR

10:00-10:15 From image to genes: update of imaging in genetic causes of renal abnormalities

Mariana Meyers (Aurora, USA)

10:15-11:30 SCIENTIFIC PAPERS

10:15-10:23 ESTABLISHING THE NORMAL ECHODENSITY RATIO BETWEEN RENAL CORTEX AND PYRAMID IN THE NEONATE/INFANT POPULATION AND THE EFFECT OF UTILIZED RECEIVER GAIN

Tin Yau Li ⁽¹⁾, Denise A. Castro ⁽¹⁾, Wilma M. Hopman ⁽²⁾, Donald A. Soboleski ⁽¹⁾
⁽¹⁾ Kingston Health Sciences Centre, Kingston (CANADA), ⁽²⁾ Kingston General Hospital Research Institute, Kingston (CANADA)

10:23-10:31 PEDIATRIC MODIFICATION OF THE BOSNIAK CLASSIFICATION FOR COMPLEX RENAL CYSTS IN CHILDREN: IS MR NECESSARY?

Stephanie Cajigas-Loyola, Amy Farkas, Richard Bellah, Hansel Otero
⁽¹⁾ Children's Hospital of Philadelphia, Philadelphia (USA)

10:31-10:39 LIMITED ABDOMINOPELVIC MRI FOR APPENDICITIS: CAN WE RULE OUT OVARIAN TORSION?

Sharon Gould ⁽¹⁾, Tejal Mody ⁽¹⁾, Mary Gould ⁽²⁾, Heidi Kecskemethy ⁽¹⁾, Simone Veale ⁽²⁾, Arabinda Choudhary ⁽³⁾
⁽¹⁾ Nemours/Alfred I duPont Hospital for Children, Department of Radiology, Wilmington, DE (USA), ⁽²⁾ Nemours/Alfred I duPont Hospital for Children, Department of Biomedical Research, Wilmington, DE (USA), ⁽³⁾ University of Arkansas for Medical Sciences, Department of Radiology, Little Rock, AR (USA)

10:39-10:47 ULTRASOUND BASED RENAL PARENCHYMA AREA AND KIDNEY FUNCTION DECLINE IN INFANTS WITH CONGENITAL ANOMALIES OF THE KIDNEY AND URINARY TRACT

Bernarda Viteri (1,2,3), Mohamed Elsingerly ⁽²⁾, Jennifer Roem ⁽⁴⁾, Derek Ng ⁽⁴⁾, Bradley Warady ⁽⁶⁾, Susan Furth ^(1,3), Gregory Tasian ^(3,5)
⁽¹⁾ Department of Pediatrics, Division of Nephrology, Childrens Hospital of Philadelphia, Philadelphia (USA), ⁽²⁾ Department of Radiology, Division of Body Imaging, Childrens Hospital of Philadelphia, Philadelphia (USA), ⁽³⁾ Perelman School of Medicine, University of Pennsylvania, Philadelphia (USA), ⁽⁴⁾ Department of Biostatistics, John Hopkins University Hospital, Balitmore (USA), ⁽⁵⁾ Department of Surgery, Division of Urology, Childrens Hospital of Philadelphia, Philadelphia (USA), ⁽⁶⁾ Department of Pediatrics, Division of Nephrology, Childrens Mercy Hospital, Kansas City (USA)



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- 10:47-10:55 **SENSITIVITY OF IMAGING FOR PREDICTING PEDIATRIC ADNEXAL TORSION**
Maria Velez-Florez, Aaron Chen, Eron Friedlaender, Gary Nace,
Elena Tsemberis, Christopher Hoffman, Rosa Hwang, Summer Kaplan
The Children's Hospital of Philadelphia, Philadelphia (UNITED STATES)
- 10:55-11:03 **VALIDITY OF PARENCHYMAL THICKNESS FOR PRE AND POST OPERATIVE
MONITORING IN INFANT PYELOPLASTY.**
Prasanna Karpaga Kumaravel ⁽¹⁾, Abirami Krithiga Jayakumar ⁽²⁾
⁽¹⁾ *Rainbow Childrens Hospital, Hyderabad (India)*, ⁽²⁾ *Rainbow Childrens
Hospital, Hyderabad (India)*
- 11:03-11:11 **USING GONAD SHIELDS IN PAEDIATRIC X-RAYS**
Fadi Maghrabia
Bradford Teaching hospitals, Bradford (UNITED KINGDOM)
- 11:11-11:19 **REFERENCE RANGES OF AGE BASED PORTAL VEIN, RENAL VEIN AND VENA
CAVA INFERIOR SIZE IN CHILDREN IN CONJUNCTION WITH WAIST
CIRCUMFERENCE**
Zuhal Bayramoglu, Berke Ersoy, Hakan Ayyildiz
*Istanbul University, Istanbul Medical Faculty, Radiology Department,
Istanbul (TURKEY)*
- 11:19-11:27 **Urodynamics and Whitaker Tests: A New Look at Old Tools**
Darshan Variyam, Matt Hawkins, Anne Gill, Jay Shah
*Emory University School of Medicine + Children's Healthcare of Atlanta,
Atlanta (USA)*
- 11:30-11:45 **High-resolution ultrasound of neonatal renal cystic diseases**
Pablo Caro (Seville, Spain)



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10:00-11:45 SCIENTIFIC SESSION I-D ONCOLOGY - Hybrid imaging in predisposing conditions

Moderators: ESPR & SPR

10:00-10:15 **The "intrinsically hybrid" approach to whole body MRI**
Martin Kyncl (Prague, Czech Republic)

10:15-11:30 SCIENTIFIC PAPERS: 9

10:15-10:23 **PEDIATRIC TUMORS WITH NTRK FUSION TRANSCRIPT: FOR A BETTER IMAGING CHARACTERIZATION**

Hermann Anne-Laure ⁽¹⁾, Lauriane Lemelle ⁽²⁾, Arnaud Gauthier ⁽³⁾, Gaëlle Pierron ⁽⁴⁾, Nayla Nicolas ⁽⁵⁾, Liesbeth Cordoen ⁽⁵⁾, Salma Moalla ⁽⁶⁾, Sarah Watson ⁽⁷⁾, Paul Freneaux ⁽³⁾, Delphine Guillemot ⁽⁴⁾, Matthieu Carton ⁽⁸⁾, Isabelle Aerts ⁽²⁾, François Doz ⁽²⁾, Gudrun Schleiermacher ⁽²⁾, Birgit Geoerger ⁽⁹⁾, Pablo Berlanga ⁽⁹⁾, Olivier Delattre ⁽²⁾, Daniel Orbach ⁽²⁾, Hervé Brisse ⁽⁵⁾

⁽¹⁾ Department of Radiology, Armand Trousseau Hospital, Sorbonne University, PARIS (FRANCE), ⁽²⁾ SIREDO Oncology Center, Institut Curie, PSL University, PARIS (FRANCE), ⁽³⁾ Department of Pathology, Institut Curie, PSL University, PARIS (FRANCE), ⁽⁴⁾ Department of Somatic Genetics, Institut Curie, PSL University, PARIS (FRANCE), ⁽⁵⁾ Department of Radiology, Institut Curie, PSL University, PARIS (FRANCE), ⁽⁶⁾ Department of Radiology, Gustave Roussy, VILLEJUIF (FRANCE), ⁽⁷⁾ Department of Oncology, Institut Curie, PSL University, PARIS (FRANCE), ⁽⁸⁾ Department of Biostatistics, Institut Curie, PSL University, PARIS (FRANCE), ⁽⁹⁾ Department of Pediatric and Adolescent Oncology, Gustave Roussy, VILLEJUIF (FRANCE)

10:23-10:31 **COMPARISON OF DIFFUSION-WEIGHTED MRI AND 18F-FDG PET FOR THE DETECTION OF BONE MARROW METASTASES IN CHILDREN WITH SOLID MALIGNANCIES.**

Elton Greene, Ali Rashidi, Lucia Baratto, Ashok Theruvath, Rong Lu, Michael Link, Sheri Spunt, Heike Daldrup-Link
Stanford University School of Medicine, Stanford (USA)

10:31-10:39 **COMBINED METABOLIC AND FUNCTIONAL TUMOR VOLUMES ON PET/MRI IN NEUROBLASTOMA: COMPLEMENTARY OR REDUNDANT INFORMATION BY 18F-FDG UPTAKE AND DIFFUSION RESTRICTION?**

Maryanna Chaika ⁽¹⁾, Simon Männlin ⁽¹⁾, Sebastian Gassenmaier ⁽¹⁾, Steven Warmann ⁽²⁾, Cristian Urla ⁽²⁾, Michael Esser ⁽¹⁾, Ilias Tsiplikas ⁽¹⁾, Sergios Gatidis ⁽¹⁾, Jürgen Schäfer ⁽¹⁾

⁽¹⁾ Department of diagnostic and interventional Radiology, Tübingen (GERMANY), ⁽²⁾ Pediatric Surgery and Urology, Tübingen (GERMANY)



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- 10:39-10:47 **WHOLE-BODY MRI VERSUS AN FDG-PET/CT-BASED REFERENCE STANDARD FOR EARLY RESPONSE ASSESSMENT AND RESTAGING OF PAEDIATRIC HODGKIN LYMPHOMA: A PROSPECTIVE MULTICENTRE STUDY**
 Suzanne Spijkers ⁽¹⁾, Annemieke S. Littooi ^(1,2), Thomas C. Kwee ⁽³⁾, Nelleke Tolboom ^(1,2), Auke Beishuizen ^(2,4), Marrie C.A. Bruin ⁽²⁾, Goya Enriquez ⁽⁵⁾, Constantino Sabado ⁽⁶⁾, Elka Miller ⁽⁷⁾, Claudio Granata ⁽⁸⁾, Charlotte de Lange ⁽⁹⁾, Federico Verzegnassi ⁽¹⁰⁾, Bart de Keizer ^(1,2), Rutger A.J. Nivelstein ^(1,2)
⁽¹⁾ Department of Radiology and Nuclear Medicine, University Medical Centre Utrecht/Wilhelmina Childrens Hospital, Utrecht (THE NETHERLANDS), ⁽²⁾ Princess Máxima Centre for Paediatric Oncology, Utrecht (THE NETHERLANDS), ⁽³⁾ Medical Imaging Centre, Department of Radiology, University Medical Centre Groningen, Groningen (THE NETHERLANDS), ⁽⁴⁾ Department of paediatric Oncology/Haematology, Erasmus Medical Centre-Sophia Childrens Hospital, Rotterdam (THE NETHERLANDS), ⁽⁵⁾ Department of Pediatric Radiology, University Hospital Vall dHebron, Institut de Recerca Vall dHebron, Barcelona (SPAIN), ⁽⁶⁾ Department of Paediatric Oncology and Haematology, University Hospital Vall dHebron, Barcelona (SPAIN), ⁽⁷⁾ Department of Medical Imaging, CHEO, University of Ottawa, Ottawa (CANADA), ⁽⁸⁾ Department of Radiology, Institute for Maternal and Child Health IRCCS Burlo Garofolo, Trieste (ITALY), ⁽⁹⁾ Department of Diagnostic Imaging and Intervention, Oslo University Hospital, Rikshospitalet, Oslo (NORWAY), ⁽¹⁰⁾ Oncohematology Unit, Institute for Maternal and Child Health IRCCS Burlo Garofolo, Trieste (ITALY)
- 10:47-10:55 **ACCELERATING WHOLE-BODY MRI IN PEDIATRIC PATIENTS WITH CANCER PREDISPOSITION SYNDROME: PRELIMINARY RESULTS.**
 Judith Herrmann ⁽¹⁾, Michael Esser ⁽¹⁾, Ilias Tsiflikas ⁽¹⁾, Marcel Dominik Nickel ⁽²⁾, Ralph Strecker ⁽²⁾, Ines Brecht ⁽³⁾, Jürgen Schäfer ⁽¹⁾
⁽¹⁾ University of Tuebingen, Department of Diagnostic and Interventional Radiology, Tuebingen (GERMANY), ⁽²⁾ Siemens Healthcare GmbH, Erlangen (GERMANY), ⁽³⁾ University of Tuebingen, Department of Pediatric Hematology and Oncology, Tuebingen
- 10:55-11:03 **IMPACT OF RESIDUAL DISEASE ANALYSIS BY MRI IN NEUROBLASTIC TUMORS ON TUMOR PROGRESSION EVENTS.**
 Sebastian Gassenmaier ⁽¹⁾, Ilias Tsiflikas ⁽¹⁾, Joerg Fuchs ⁽²⁾, Christian Urla ⁽²⁾, Steven Warmann ⁽²⁾, Jürgen Schäfer ⁽¹⁾
⁽¹⁾ Eberhard-Karls-University Tuebingen - Department of Diagnostic and Interventional Radiology, Tuebingen (GERMANY), ⁽²⁾ Eberhard-Karls-University Tuebingen - Department of Pediatric Surgery and Pediatric Urology, Tuebingen (GERMANY)



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- 11:03-11:11 **MULTIMODAL VOXEL-WISE ANALYSIS OF EARLY RESPONSE TO CHEMOTHERAPY IN CHILDHOOD RHABDOMYOSARCOMA.**
Simon Maennlin ⁽¹⁾, Sebastian Gassenmaier ⁽¹⁾, Andreas Schmidt ⁽²⁾, Joerg Fuchs ⁽²⁾, Robert Grimm ⁽³⁾, Monika Scheer ⁽⁴⁾, Sergios Gatidis ⁽¹⁾, Juergen Frank Schaefer ⁽¹⁾
⁽¹⁾ University Hospital Hospital Tuebingen, Diagnostic and Interventional Radiology, Tuebingen (GERMANY), ⁽²⁾ University Hospital Tuebingen, Kinderheilkunde 5, Tuebingen (GERMANY), ⁽³⁾ Siemens Healthcare MR, Erlangen (GERMANY), ⁽⁴⁾ Olgahospital, Hospital Stuttgart, Stuttgart (GERMANY)
- 11:11-11:19 **THE EVOLUTION OF MRI IN THE DIAGNOSIS AND FOLLOW UP OF PAEDIATRIC EXTRACRANIAL SOLID TUMOURS - A 10 YEAR REVIEW IN A TERTIARY PAEDIATRIC HOSPITAL.**
Sparsh Prasher, Srikrishna Harave
Alderhey Children's Hospital, Liverpool (UNITED KINGDOM)
- 11:19-11:27 **IMAGING FEATURES OF CONGENITAL INFANTILE FIBROSARCOMA**
Eleti Saigeet ⁽¹⁾, Nasim Tahir ⁽²⁾
⁽¹⁾ Department of Radiology - Great Ormond Street Hospital, London (UNITED KINGDOM), ⁽²⁾ Department of Radiology - Leeds Children's Hospital, Leeds (UNITED KINGDOM)
- 11:30-11:45 **A forecast for PET/MRI in predisposing cancer conditions**
Mary-Louise Greer (Toronto, Canada)
- 12:15-13:00 Industry - Sponsored Symposium (NO CME ACCREDITATION)**
- 13:10-14:15 Jacques Lefèbvre/Edward B. Neuhauser Lecture**
Moderators: Andrea Rossi, MD and Damien Grattan-Smith, MD
Lessons of a life as a pediatric radiologist
Paolo Tomà (Rome, Italy)
- 14:15-15:15 CATEGORICAL COURSE IV-A**
Gastrointestinal: the essentials
Moderators: ESPR & SPR
- 14:15-14:30 **Bowel obstruction by age**
Martin Stenzel (Cologne, Germany)
- 14:30-14:45 **Congenital anomalies of the abdomen that should be followed post-natally**
Christopher Ian Cassady (Houston, USA)
- 14:45-15:00 **Diagnosis of neonatal jaundice**
Patricia Acharya (Loma Linda, USA)
- 15:00-15:15 **STAT! Emergencies you can't miss (cases)**
Glulia Perucca (Turin, Italy)



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14:15-15:15 CATEGORICAL COURSE IV-B Musculoskeletal: tips for specialists

Moderators: ESPR & SPR

14:15-14:30 **Newest Imaging techniques for MSK**

Diego Jaramillo (New York, USA)

14:30-14:45 **Marrow: normal to abnormal and why**

Lil-Sofie Ording Muller (Oslo, Norway)

14:45-15:00 **Metabolic bone disease made simple**

Eric Crotty (Cincinnati, USA)

15:00-15:15 **Challenging MSK ultrasound (cases)**

Thekla von Kalle (Stuttgart, Germany)

15:15-15:45 *Break*

15:50-16:50 SCIENTIFIC SESSION II-A CHEST - The floppy windpipe: Is it always tracheomalacia?

Moderators: ESPR & SPR

15:50-16:05 **Current imaging techniques and definitions of tracheomalacia**

Efthymia Alexopoulou (Athens, Greece)

16:05-16:35 SCIENTIFIC PAPERS

16:05-16:12 **CONCURRENT CT ANGIOGRAPHY AND DYNAMIC AIRWAY CT IN CHILDREN IN THE EVALUATION OF EXTRINSIC AIRWAY COMPRESSION**

Jordan B. Rapp^(1,2), Karen I. Ramirez, Hansel J. Otero^(1,2), Seth E. Vatsky^(1,2), Ammie M. White^(1,2), David M. Biko^(1,2)

⁽¹⁾ Children's Hospital of Philadelphia, Philadelphia (UNITED STATES), ⁽²⁾ University of Pennsylvania, Perelman School of Medicine, Philadelphia (UNITED STATES)

16:12-16:19 **BRONCHOPULMONARY MALFORMATIONS. PRE AND POSTNATAL IMAGING AND FOLLOW-UP OF NON-OPERATIVE CASES.**

Beverley Newman, Claudia Mueller, Matias Bruzoni, Modupeola Diyaolu, Richard Barth

Stanford Childrens Hospital at Stanford University, Stanford (USA)

16:19-16:26 **LOW DOSE CHEST CT FOR DIAGNOSIS OF PEDIATRIC ESOPHAGEAL FOREIGN BODIES**

Victor Seghers, Herman Kan, Ray Somcio, Paul Guillerman, Carly Hansen, Raymond Pahlka, Andy Sher, Marla Sammer

Texas Children's Hospital, Houston (USA)



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16:26-16:33 **THE ROLE OF SUPERB MICROVASCULAR IMAGING AND SHEAR WAVE ELASTOGRAPHY IN DIFFERENTIATION OF THYROID NODULES FROM INTRATHYROIDAL ECTOPIC THYMUS IN CHILDREN**
Zuhal Bayramoglu, Igor Ihezagire, Yunus Emre Akpinar, Ibrahim Adaletli
Istanbul University, Istanbul Medical Faculty, Radiology Department, Istanbul (TURKEY)

16:35-16:50 **Future perspectives**
Pierluigi Ciet (Rotterdam, The Netherlands)

15:50-16:50 SCIENTIFIC SESSION II-B CONTRAST MATERIALS - New techniques in MR vascular imaging

Moderators: ESPR & SPR

15:50-16:05 **Old contrast, new contrast, no contrast: where we stand in vascular imaging**
Govind Chavhan (Toronto, Canada)

16:05-16:35 SCIENTIFIC PAPERS

16:05-16:12 **FERUMOXYTOL-ENHANCED 4D FLOW MRI FOR INTERROGATION OF RENAL BLOOD FLOW: COMPARATIVE ASSESSMENT IN CHILDREN WITH AND WITHOUT END-STAGE RENAL DISEASE**
Evan Zucker, Aya Kino, Richard Barth, Shreyas Vasanaawala
Stanford University, Department of Radiology, Stanford (USA)

16:12-16:19 **SAFETY AND ACCEPTANCE OF ULTRASOUND CONTRAST AGENTS IN CHILDREN AND ADOLESCENTS - CONTRAST ENHANCED VOIDING UROSONOGRAPHY AND CONTRAST ENHANCED ULTRASOUND**
Katja Glutig, Josefina Seelbach, Paul-C. Krüger, Matthias Waginger, Diane M. Renz, Hans-Joachim Mentzel
Section of Pediatric Radiology, University hospital Jena, Jena (GERMANY)

16:19-16:26 **CONTRAST-ENHANCED ULTRASOUND (CEUS) IN THREE PATIENTS WITH MULTISYSTEM INFLAMMATORY SYNDROME IN CHILDREN (MIS-C)**
Misun Hwang ^(1,2), Luis Octavio Tierradentro-García, Laura Poznick, Todd Kilbaugh ^(2,3), Kathleen Chiotos ^(2,3)
⁽¹⁾ Department of Radiology, Children's Hospital of Philadelphia, Philadelphia (UNITED STATES), ⁽²⁾ Perelman School of Medicine, University of Pennsylvania, Philadelphia (UNITED STATES), ⁽³⁾ Department of Anesthesiology and Critical Care Medicine, Children's Hospital of Philadelphia, Philadelphia (UNITED STATES)



Tuesday, October 12, 2021

16:26-16:33 **ADAPTING THE REALIZING IMPROVEMENT THROUGH TEAM EMPOWERMENT (RITE) PROGRAM TO A VIRTUAL FORMAT IN THE MIDST OF THE COVID-19 PANDEMIC**

Monica Miranda Schaeubinger ⁽¹⁾, Ethan Larsen ⁽¹⁾, Kandice Garcia Tomkins ⁽²⁾, Valerie Rigby ⁽¹⁾, Ammie White ⁽¹⁾, Raymond Sze ⁽¹⁾, David Larson ⁽²⁾

⁽¹⁾ Children's Hospital of Philadelphia, Department of Radiology, Philadelphia (USA), ⁽²⁾ Stanford University School of Medicine, Department of Radiology, Stanford (USA)

16:35-16:50 **Potential of non-contrast enhanced angiography**

Christian Kellenberger (Zurich, Switzerland)

**15:50-16:50 SCIENTIFIC SESSION II-C:
 WORKING TOGETHER - Celebrating the 10th Anniversary of the WFPI**

Moderators: Joanna Kasznia-Brown (Bristol, UK), SLARP

15:50-16:05 **The time is now - urgent need for global approach in paediatric imaging**
 Catherine Owens (Doha, Qatar)

16:05-16:20 **WFPI and current international initiatives in paediatric radiology**
 Dorothy Bulas (Washington, USA)

16:20-16:35 **The importance of understanding cultural and political differences in large international societies**
 Timothy Cain (Melbourne, Australia)

16:35-16:50 **The WFPI: a success story**
 Maria Ines Boechat (Los Angeles, USA)



Tuesday, October 12, 2021

15:50-16:50 SCIENTIFIC SESSION II-D: IMAGE GENTLY/EUROSAFE SESSION Pediatric CT diagnostic reference levels: paradigm or paradox?

Moderator: Donald Frush (Durham, USA)

15:50-16:00 **DRL: potentials and challenges in children**

Virginia Tsapaki (Vienna, Austria)

16:00-16:10 **Current status of pediatric DRL in North America**

Priscilla Butler (Philadelphia, USA)

16:10-16:20 **PiDRL: an EC tender initiative**

Claudio Granata (Trieste, Italy)

16:20-16:30 **iGuide and lessons learned from CT dose workshops**

Erich Sorantin (Graz, Austria)

16:30-16:40 **Other applications, collaborations and innovations in the paradigm of pediatric CT DRLs**

Donald Frush (Durham, USA)

16:40-16:50 **Discussion**

17:00-18:15 **ESPR & SPR Awards and Honorary Members Ceremony**

18:15 **Adjourn**

09:00-17:00 **Cases of the Day**

Moderators: Neil Johnson (Cincinnati, USA), Aurelio Secinaro (Rome, Italy)

NOT CME ACCREDITATION



Wednesday, October 13, 2021

6:45-8:30 **Breakfast**

6:30-13:00 **Registration**

7:30-8:20 **SUNRISE SESSION 1-A** **Education**

Moderator:

7:30-7:55 **Reviewing for pediatric radiology**
Peter Strouse (Ann Arbor, USA)

7:55-8:20 **Statistics for reading or writing a scientific publication:
what a pediatric radiologist should know**
Øystein Olsen (London, UK)

7:30-8:20 **SUNRISE SESSION 1-B** **Nuclear medicine**

Moderator:

7:30-7:55 **How to optimize nuclear medicine techniques in children**
TBD

7:55-8:20 **Use of 18F-DOPA PET/CT in children with hyperinsulinism**
Lisa States (Philadelphia, USA)

7:30-8:20 **SUNRISE SESSION 1-C** **Musculoskeletal**

Moderator:

7:30-7:55 **Image-guided MSK interventions**
Sarah Menashe (Seattle, USA)

7:55-8:20 **Contrast enhanced ultrasound for evaluation of hip dysplasia/AVN**
Harriet Paltiel (Boston, USA)



Wednesday, October 13, 2021

8:30-10:00 CATEGORICAL COURSE V-A Genitourinary: the essentials

Moderators: ESPR & SPR

8:30-8:50 UTD refresher

Marie Cassart (Brussels, Belgium)

8:50-9:10 Don't be confused: common congenital GU anomalies

Veronica Rocks (Honolulu, USA)

9:10-9:30 Imaging of the pelvis: when is US enough

Maria Luisa Lobo (Lisbon, Portugal)

9:30-9:50 STAT! Emergencies you can't miss (cases)

Patricia Acharya (Loma Linda, USA)

8:30-10:00 CATEGORICAL COURSE V-B Interventional: tips for specialists

Moderators: ESPR & SPR

8:30-8:50 Cryoablation, microwave, RFA: when, where, why ?

João Amaral (Toronto, Canada)

8:50-9:10 Inflammatory vs noninflammatory arterial stenosis: how and when to treat?

Premal Patel (London, UK)

9:10-9:30 Fetal vascular tumors: role of IR

Josee Dubois (Montreal, Canada)

9:30-9:50 Difficult cases or TEN commandments in IR - case experience

Ralph Gnannt (Zurich, Switzerland)

10:00-10:30 Break

10:30-11:30 CATEGORICAL COURSE VI-A Interventional: the essentials

Moderators: ESPR & SPR

10:30-10:45 To drain or not to drain, and how!

Julian Jürgens (Hamburg, Germany)

10:45-11:00 Vascular malformations, practical approach

Premal Patel (London, UK)

11:00-11:15 Biliary intervention: tricks

Anne Elizabeth Gill (Atlanta, USA)

11:15-11:30 Renovascular disease - an update

Anne Marie Cahill (Philadelphia, USA)



Wednesday, October 13, 2021

10:30-11:30 CATEGORICAL COURSE VI-B Genitourinary: tips for specialists

Moderators: ESPR & SPR

10:30-10:45 **MR of the GU tract: when and how**
Kassa Darge (Philadelphia, USA)

10:45-11:00 **Functional imaging of the urinary tract: when does dilation matter?**
Michael Riccabona (Graz, Austria)

11:00-11:15 **The management of UTD**
Samuel Stafrace (Doha, Qatar)

11:15-11:30 **GU-ess what? GU unknowns for the intrepid**
Boaz Karmazyn (Indianapolis, USA)

11:35-13:15 SCIENTIFIC SESSION III-A: NEURO - From structural to functional pediatric neuroimaging

Moderators: ESPR & SPR

11:35-11:50 **Is functional neuroimaging adding value in daily practice?**
Shivaram Avula (Liverpool, UK)

11:50-13:00 SCIENTIFIC PAPERS

11:50-11:58 **STRUCTURAL HETEROGENEITY IN ADOLESCENT BRAIN AGE ASSOCIATED WITH DISTINCT COGNITIVE PROFILES.**

Susan Sotardi ⁽¹⁾, Monica Truelove-Hill ⁽²⁾, Guray Erus ⁽²⁾, Jimit Doshi ⁽²⁾, Raquel Gur ⁽²⁾, Ruben Gur ⁽²⁾, Daniel Wolf ⁽²⁾, Tyler Moore ⁽²⁾, Theodore Satterthwaite ⁽²⁾, Christos Davatzikos ⁽²⁾

⁽¹⁾ Childrens Hospital of Philadelphia, Philadelphia (USA), ⁽²⁾ University of Pennsylvania, Philadelphia (USA)

11:58-12:06 **THE PEDIATRIC MILD TRAUMATIC INJURY DIFFUSION-TENSOR IMAGING STUDY AT 3 TESLA.**

Andrei Manzhurtsev, Maxim Ublinskiy ^(1,2), Alexey Yakovlev, Olga Bozhko, Tolib Akhadov, Natalia Semenova ^(1,2)

⁽¹⁾ Clinical and Research Institute of Emergency Pediatric Surgery and Trauma, Moscow (RUSSIA), ⁽²⁾ Emanuel Institute of Biochemical Physics of the Russian Academy of Sciences, Moscow (RUSSIA)



Wednesday, October 13, 2021

- 12:06-12:14 **EVALUATING BRAIN ELASTOGRAPHY CORRELATIONS IN A PEDIATRIC PORCINE MODEL OF ASPHYXIA ASSOCIATED CARDIAC ARREST**
 Kristina Khaw ⁽¹⁾, Anush Sridharan ⁽²⁾, Sunil Unnikrishnan ⁽²⁾, Todd Kilbaugh ⁽³⁾, Misun Hwang ⁽²⁾
⁽¹⁾ University of Pennsylvania - Department of Bioengineering, Philadelphia (USA), ⁽²⁾ Children's Hospital of Philadelphia - Department of Radiology, Philadelphia (USA), ⁽³⁾ Children's Hospital of Philadelphia - Department of Anesthesiology and Critical Care Medicine, Philadelphia (USA)
- 12:14-12:22 **CEREBRAL PH IN ACUTE MILD TRAUMATIC BRAIN INJURY MEASURED BY 1H MAGNETIC RESONANCE SPECTROSCOPY**
 Petr Bulanov, Andrei Manzhurts ^(1,2,3), Alexey Yakovlev ^(1,3,5), Petr Menshchikov ^(3,4), Maxim Ublinskiy ^(1,3), Natalia Semenova ^(1,2,3,5), Tolib Akhadov ^(1,2)
⁽¹⁾ Clinical and Research Institute of Emergency Pediatric Surgery and Traumatology, Moscow (RUSSIAN FEDERATION), ⁽²⁾ Lomonosov Moscow State University, Moscow (RUSSIAN FEDERATION), ⁽³⁾ Emanuel Institute of Biochemical Physics of RAS, Moscow (RUSSIAN FEDERATION), ⁽⁴⁾ Philips Healthcare, Moscow (RUSSIAN FEDERATION), ⁽⁵⁾ Semenov Institute of Chemical Physics of the Russian Academy of Sciences, Moscow (RUSSIAN FEDERATION)
- 12:22-12:30 **WILL THE REAL PAPILEDEMA PLEASE COME FORWARD: DIFFERENTIATING CONCERNING AND CONGENITAL OPTIC NERVE DISK ELEVATION.**
 Adam Goldman-Yassen ⁽¹⁾, Anna Shifrin ⁽²⁾, Avrum Pollock ⁽³⁾, Tamara Feygin ⁽³⁾
⁽¹⁾ Children's Healthcare of Atlanta, Atlanta (USA), ⁽²⁾ North Shore Radiological Associates, Winchester (USA), ⁽³⁾ Children's Hospital of Philadelphia, Philadelphia (USA)
- 12:30-12:38 **MRI-GUIDED LASER ABLATION FOR CHILDREN WITH REFRACTORY EPILEPSY RELATED TO HYPOTHALAMIC HAMARTOMA (HH): TECHNIQUE, PITFALLS AND INITIAL RESULTS IN 11 PATIENTS**
 Jordi Muchart ⁽¹⁾, Santiago Candela ⁽²⁾, Monica Rebollo ⁽¹⁾, Marta Gomez-Chiari ⁽¹⁾, Javier Aparicio ⁽³⁾, Silvia Serrano ⁽⁴⁾, Mariana Alamar ⁽²⁾, Alia Ramirez ⁽³⁾, Maria Victoria Becerra ⁽²⁾, Alba Carrillo ⁽¹⁾, Ferran Pifarre ⁽¹⁾, Jose Hinojosa ⁽²⁾, Josep Munuera ⁽¹⁾
⁽¹⁾ Diagnostic Imaging Department, Sant Joan de Deu Barcelona Children's Hospital, Barcelona (SPAIN), ⁽²⁾ Neurosurgery Department, Sant Joan de Deu Barcelona Children's Hospital, Barcelona (SPAIN), ⁽³⁾ Neuropediatric Department, Sant Joan de Deu Barcelona Children's Hospital, Barcelona (SPAIN), ⁽⁴⁾ Anaesthesiology Department, Sant Joan de Deu Barcelona Children's Hospital, Barcelona (SPAIN)



Wednesday, October 13, 2021

- 12:38-12:46 **IMAGING OF PEDIATRIC SPINAL CORD INFARCT ASSOCIATED WITH FIBROCARILAGINOUS EMBOLISM**
Alireza Zandifar ⁽¹⁾, Luis O. Tierradentro-García ⁽¹⁾, Jorge Du Ub Kim ⁽¹⁾, Lauren A. Beslow ⁽²⁾, Arastoo Vossough ⁽³⁾
⁽¹⁾ Department of Radiology, Children's Hospital of Philadelphia, Philadelphia (USA), ⁽²⁾ Department of Neurology, Children's Hospital of Philadelphia, University of Pennsylvania, Philadelphia (USA), ⁽³⁾ Department of Radiology, Children's Hospital of Philadelphia, University of Pennsylvania, Philadelphia (USA)
- 12:46-12:54 **RED FLAGS OF TORTICOLLIS: RETROSPECTIVE STUDY OF 540 CHILDREN ADMITTED TO EMERGENCY DEPARTMENT**
Antonio Marrazzo ⁽¹⁾, Alessia Carboni ⁽¹⁾, Alessandro Ferretti ⁽²⁾, Francesco Dotta ⁽¹⁾, Carlo Gandolfo ⁽¹⁾, Umberto Raucci ⁽³⁾, Paolo Tomà ⁽⁴⁾, G. Stefania Colafati ⁽¹⁾
⁽¹⁾ Neuroradiology Unit, Department of Imaging, Bambino Gesù Children's Hospital, IRCCS, Rome (ITALY), ⁽²⁾ Rare and Complex Epilepsy Unit, Department of Neurosciences, Bambino Gesù Children's Hospital, IRCCS, Rome (ITALY), ⁽³⁾ Emergency Department, Bambino Gesù Children's Hospital, IRCCS, Rome (ITALY), ⁽⁴⁾ Department of Imaging, Bambino Gesù Children's Hospital, IRCCS, Rome (ITALY)
- 13:00-13:15 **Functional neuroimaging - state of the art and future directions**
Avner Meoded (Houston, USA)

11:35-13:15 SCIENTIFIC SESSION III-B: CARDIAC - 4D flow MRI

Moderators: ESPR & SPR

- 11:35-11:50 **4D MR in congenital heart failure**
Prakash Masand (Houston, USA)

11:50-13:00 SCIENTIFIC PAPERS

- 11:50-11:58 **BIOMECHANICAL FLOW MODELING USING PATIENT-SPECIFIC 3D PRINTED MODELS FOR SURGICAL DECISION-MAKING IN ANOMALOUS AORTIC ORIGIN OF THE CORONARY ARTERIES (AAOCA)**
Yasaman Farsiani ⁽¹⁾, Jayanthi Parthasarathy ⁽¹⁾, Silvana Molossi ⁽²⁾, Carlos Mery ⁽³⁾, Atefe Razavi ⁽⁴⁾, Lakshmi Prasad Dasi ⁽⁴⁾, Rajesh Krishnamurthy ⁽¹⁾
⁽¹⁾ Nationwide Children's Hospital, Columbus (USA), ⁽²⁾ Baylor College of Medicine, Houston (USA), ⁽³⁾ University of Texas Austin, Austin (USA), ⁽⁴⁾ Georgia Institute of Technology, Atlanta (USA)



Wednesday, October 13, 2021

- 11:58-12:06 **UNDERSTANDING FONTAN ASSOCIATED LIVER DISEASE (FALD): CORRELATION OF VASCULAR FLOW IN THE LIVER WITH FONTAN HEMODYNAMICS IN CHILDREN**
 Karen I. Ramirez-Suarez ⁽¹⁾, Ensar Yekeler ⁽¹⁾, Suraj D. Serai ⁽¹⁾, Jordan B Rapp ^(1,3), Sara L. Partington ⁽²⁾, Matthew A Harris ⁽²⁾, Kevin K. Whitehead ^(2,3), Jack Rychik ^(2,3), David M. Biko ^(1,3)
⁽¹⁾ Department of Radiology, Children's Hospital of Philadelphia, 3401 Civic Center Blvd, Philadelphia (USA), ⁽²⁾ Division of Cardiology, Children's Hospital of Philadelphia, Pennsylvania 3401 Civic Center Blvd, Philadelphia (USA), ⁽³⁾ University of Pennsylvania, Perelman School of Medicine, Philadelphia (USA)
- 12:06-12:14 **FREE-BREATHING NON-CONTRAST MR ANGIOGRAPHY IN CHILDREN USING 3D DUAL-ECHO DIXON TECHNIQUE: INITIAL CLINICAL EXPERIENCE**
 Madeleine Fischer ⁽¹⁾, Jan-Malte Ambs ⁽¹⁾, Mischa Sommer ⁽¹⁾, Undine Wilke ⁽²⁾, Masami Yoneyama ⁽³⁾, Shuo Zhang ⁽²⁾, Carl-Martin Junge ⁽¹⁾
⁽¹⁾ Altonaer Kinderkrankenhaus gGmbH, Hamburg (GERMANY), ⁽²⁾ Philips Healthcare, Hamburg (GERMANY), ⁽³⁾ Philips Healthcare, Tokyo (JAPAN)
- 12:14-12:22 **QUANTITATIVE CT IN INFANTS WITH BRONCHOPULMONARY DYSPLASIA ASSOCIATED WITH AND WITHOUT PULMONARY HYPERTENSION**
 Karen I. Ramirez-Suarez, Christian A. Barrera, Erik A. Jensen ^(2,3), Jordan B. Rapp ^(1,3), David M. Biko ^(1,3), Ammie M. White ^(1,3), Hansel J. Otero ^(1,3)
⁽¹⁾ Department of Radiology, Children's Hospital of Philadelphia, 3401 Civic Center Blvd, Philadelphia, PA (USA), ⁽²⁾ Division of Neonatology, The Children's Hospital of Philadelphia, 3401 Civic Center Blvd, Philadelphia, PA (USA), ⁽³⁾ University of Pennsylvania, Perelman School of Medicine, Philadelphia, PA (USA)
- 12:22-12:30 **NON-CONTRAST PULMONARY MRI: LONG-TERM MONITORING OF STRUCTURAL LUNG DISEASE IN PATIENTS WITH CYSTIC FIBROSIS.**
 Mareen Kraus ⁽¹⁾, Michael Esser ⁽¹⁾, Lena Kiefer ⁽¹⁾, Ricarda Schwarz ⁽¹⁾, Philipp Utz ⁽²⁾, Ute Graepler Mainka ⁽²⁾, Ilias Tsiflikas ⁽¹⁾, Jürgen F Schäfer ⁽¹⁾
⁽¹⁾ Diagnostic and interventional Radiology, Tübingen (GERMANY), ⁽²⁾ Paediatrics, Tübingen (GERMANY)
- 12:30-12:38 **LUNG MR-IMAGING WITH 3D ULTRASHORT-TE IN FREE BREATHING IN COMPARISON WITH CONVENTIONAL T2 SEQUENCES IN PEDIATRIC RADIOLOGY**
 Franz-Wolfgang Hirsch ⁽¹⁾, Rebecca Anders ⁽¹⁾, Thomas Benkert ⁽²⁾, Daniel Gräfe ⁽¹⁾
⁽¹⁾ Department of Pediatric Radiology, University of Leipzig, Leipzig (GERMANY), ⁽²⁾ Siemens Healthcare GmbH, Erlangen (GERMANY)



Wednesday, October 13, 2021

- 12:38-12:46 **FAST LUNG MRI AS A DIAGNOSTIC IMAGING TOOL FOR CONGENITAL DIAPHRAGMATIC HERNIA**
 Sureyya Burcu Gorkem ⁽¹⁾, Hazal Bercem Gurleyen ⁽²⁾
⁽¹⁾ Erciyes University Department of Pediatric Radiology, Kayseri (TURKEY), ⁽²⁾ Erciyes University Department of Pediatric Surgery, Kayseri (TURKEY)
- 12:46-12:54 **THORACIC IMAGING FEATURES OF ANTI-MDA5 JUVENILE DERMATOMYOSITIS**
 HaiThuy Nguyen ⁽¹⁾, David Moreno-McNeill ⁽²⁾, Manuel Silva-Carmona ⁽²⁾, Tiphane Vogel ⁽³⁾, R. Paul Guillerman ⁽¹⁾
⁽¹⁾ Texas Children's Hospital - Department of Radiology, Houston (USA), ⁽²⁾ Texas Children's Hospital - Department of Pediatrics, Pulmonology, Houston (USA), ⁽³⁾ Texas Children's Hospital - Department of Pediatrics, Rheumatology, Houston (USA)
- 13:00-13:15 **New applications of 4D MRI**
 Andrew Taylor (London, UK)

11:35-13:15 SCIENTIFIC SESSION III-C: GENITOURINARY - New approaches to detect damage to the pediatric kidney

Moderators: ESPR & SPR

- 11:35-11:50 **What did we learn from imaging renal damage in children?**
 Fred Avni (Brussels, Belgium)

11:50-13:00 SCIENTIFIC PAPERS

- 11:50-11:58 **MRI-CHARACTERISTICS OF PEDIATRIC RENAL TUMORS: A SIOP-RTSG RADIOLOGY PANEL DELPHI STUDY**
 Justine N. van der Beek ^(1,2), Tom A. Watson ⁽³⁾, Rutger A.J. Nieuvelstein ^(1,2), Ronald R. de Krijger ^(2,4), Norbert Graf ⁽⁵⁾, Østein E. Olsen ⁽³⁾, Jens-Peter Schenk ⁽⁶⁾, Marry M. van den Heuvel-Eibrink ⁽²⁾, Annemieke S. Littooj ^(1,2)
⁽¹⁾ Department of Radiology and Nuclear Medicine, University Medical Center Utrecht/Wilhelmina Children's Hospital, Utrecht (THE NETHERLANDS), ⁽²⁾ Princess Máxima Center for Pediatric Oncology, Utrecht (THE NETHERLANDS), ⁽³⁾ Department of Paediatric Radiology, Great Ormond Street Hospital NHS Foundation Trust, London (UNITED KINGDOM), ⁽⁴⁾ Department of Pathology, University Medical Center Utrecht, Utrecht (THE NETHERLANDS), ⁽⁵⁾ Department of Paediatric Oncology&Hematology, Saarland University Medical Center-Saarland University Faculty of Medicine, Homburg (GERMANY), ⁽⁶⁾ Clinic of Diagnostic and Interventional Radiology, Division of Pediatric Radiology, Heidelberg University Hospital, Heidelberg (GERMANY)



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- 11:58-12:06 **ROLE OF INTRA-VOXEL INCOHERENT DIFFUSION (IVIM) MRI IN SURVEILLANCE OF KIDNEY TRANSPLANT DYSFUNCTION: PRELIMINARY FINDINGS.**
Adarsh Ghosh, Bernarda Viteri, Erum A Hartung, Tricia Bhatti, Dmitry Khrichenko, Mohini Dutt, Robert Carson, Hansel J. Otero, Suraj Serai
Children's Hospital of Philadelphia, Philadelphia (UNITED STATES)
- 12:06-12:14 **FUNCTIONAL MAGNETIC RESONANCE UROGRAPHY (FMRU) IN URETEROPELVIC JUNCTION OBSTRUCTION (UPJO): PROPOSAL FOR A PEDIATRIC QUANTITATIVE SCORE**
Fiammetta Sertorio ⁽¹⁾, Maria Beatrice Damasio ⁽¹⁾, Irene Campo ⁽²⁾, Luca Basso ⁽¹⁾, Lorenzo Anfigeno ⁽³⁾, Michela Cing Yu Wong ⁽⁴⁾, Angela Pistorio ⁽⁵⁾, Monica Bodria ⁽⁶⁾, Giorgio Piaggio ⁽⁶⁾, Girolamo Mattioli ⁽⁴⁾
⁽¹⁾ IRCCS Giannina Gaslini, Radiology Department, Genova (ITALY), ⁽²⁾ UOC di Radiologia Ospedale Civile Conegliano Veneto, ULSS 2, Conegliano (ITALY), ⁽³⁾ Università degli Studi di Genova, DISSAL, Radiology Department, Genova (ITALY), ⁽⁴⁾ IRCCS Giannina Gaslini, Pediatric Surgery Department, Genova (ITALY), ⁽⁵⁾ IRCCS Giannina Gaslini, Epidemiology and Biostatistics Unit, Genova (ITALY), ⁽⁶⁾ IRCCS Giannina Gaslini, Nephrology and Renal Transplantation Department, Genova (ITALY)
- 12:14-12:22 **FEASIBILITY OF QUANTITATIVE ASSESSMENT OF RENAL FUNCTION USING MOTION-INSENSITIVE MR UROGRAPHY IN PEDIATRIC PATIENTS**
Ramkumar Krishnamurthy ⁽¹⁾, Dmitry Khrichenko ⁽²⁾, Tobias Block ⁽³⁾, Sila Kurugol ⁽⁴⁾, Jeanne Chow ⁽⁴⁾, Rajesh Krishnamurthy ⁽¹⁾
⁽¹⁾ Nationwide Children's Hospital - Radiology, Columbus (USA), ⁽²⁾ Children's Hospital of Philadelphia - Radiology, Philadelphia (USA), ⁽³⁾ NYU Langone health - Radiology, New York (USA), ⁽⁴⁾ Boston Children's Hospital - Radiology, Boston (USA)
- 12:22-12:30 **DIFFUSION-WEIGHTED MRI IN THE EVALUATION OF RENAL PARENCHYMAL INVOLVEMENT DURING FEBRILE URINARY TRACT INFECTIONS IN CHILDREN: PRELIMINARY DATA**
Lorenzo Anfigeno ⁽¹⁾, Fiammetta Sertorio ⁽¹⁾, Luca Basso ⁽¹⁾, Andrea Fontana ⁽²⁾, Monica Bodria ⁽³⁾, Angela Pistorio ⁽⁴⁾, Gian Marco Ghiggeri ⁽³⁾, Maria Beatrice Damasio ⁽¹⁾
⁽¹⁾ Radiology Department, IRCCS Giannina Gaslini, Genoa (ITALY), ⁽²⁾ Postgraduation School in Radiodiagnostics, Università degli Studi di Milano, Milan (ITALY), ⁽³⁾ Nephrology Department, IRCCS Giannina Gaslini, Genoa (ITALY), ⁽⁴⁾ Epidemiology and Biostatistics Department, IRCCS Giannina Gaslini, Genoa (ITALY)



Wednesday, October 13, 2021

- 12:30-12:38 **MULTIPARAMETRIC QUANTITATIVE RENAL MRI IN CHILDREN AND YOUNG ADULTS: COMPARISON BETWEEN HEALTHY PARTICIPANTS AND PATIENTS WITH CHRONIC KIDNEY DISEASE**
Jonathan Dillman, Stefanie Benoit, Deep Gandhi, Prasad Devarajan, Jean Tkach, Andrew Trout
Cincinnati Children's Hospital Medical Center, Cincinnati, OH (USA)
- 12:38-12:46 **COMPARISON OF DEEP LEARNING RECONSTRUCTION OF UNENHANCED CT FOR URINARY TRACT STONE DETECTION**
Samjhana Thapaliya, Elanchezhian Somasundaram, Samuel Brady, Christopher Anton, Brian Coley, Alexander Towbin, Jonathan Dillman, Andrew Trout
Cincinnati Children's Hospital Medical Center Department of Radiology, Cincinnati (USA)
- 12:46-12:54 **ROLE OF ELASTOSONOGRAPHY IN THE MANAGEMENT OF POST-OPERATIVE UNDESCENDED TESTES IN CHILDREN**
Silvia Storer ⁽¹⁾, Costanza Bruno ⁽²⁾, Simone Patanè ⁽³⁾, Nicola Zampieri ⁽⁴⁾, Stefania Montemezzi ⁽⁵⁾, Francesco Camoglio ⁽⁶⁾
⁽¹⁾ Radiology Unit, Department of Pathology and Diagnostics, AOUI, Verona (ITALY), ⁽²⁾ Radiology Unit, Department of Pathology and Diagnostics, AOUI, Verona (ITALY), ⁽³⁾ Pediatric Surgery Unit, Department of Surgery, Dentistry, Pediatrics and Gynaecology, AOUI, Verona (ITALY), ⁽⁴⁾ Pediatric Surgery Unit, Department of Surgery, Dentistry, Pediatrics and Gynaecology, AOUI, Verona (ITALY), ⁽⁵⁾ Radiology Unit, Department of Pathology and Diagnostics, AOUI, Verona (ITALY), ⁽⁶⁾ Pediatric Surgery Unit, Department of Surgery, Dentistry, Pediatrics and Gynaecology, AOUI, Verona (ITALY)
- 13:00-13:15 **Advanced imaging of the renal parenchyma**
Gabrielle Colleran (Boston, USA)

11:35-13:15 **SCIENTIFIC SESSION III-D: ONCOLOGY - Current controversies in childhood cancer**

Moderators: ESPR & SPR

- 11:35-11:50 **Pitfalls and errors in pediatric oncologic imaging**
Kieran McHugh (London, UK)



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11:50-13:00 SCIENTIFIC PAPERS

- 11:50-11:58 **RADIOGENOMICS PREDICTION OF MYCN STATUS IN NEUROBLASTOMA: A HYPOTHESIS GENERATING STUDY**
 Pier Luigi Di Paolo ⁽¹⁾, Davide Curione ⁽¹⁾, Angela Di Giannatale ⁽²⁾, Jacopo Lenkowicz ⁽³⁾, Antonio Napolitano ⁽¹⁾, Franco Locatelli ⁽²⁾, Paolo Tomà ⁽¹⁾, Luca Boldrini ⁽³⁾, Aurora Castellano ⁽²⁾, Aurelio Secinaro ⁽¹⁾
⁽¹⁾ Bambino Gesù Children's Hospital IRCCS, Department of Imaging, Rome (ITALY), ⁽²⁾ Bambino Gesù Children's Hospital IRCCS, Department of Pediatric Onco-Hematology, Rome (ITALY), ⁽³⁾ Fondazione Policlinico Universitario A. Gemelli IRCCS, Department of Radiology, Rome (ITALY)
- 11:58-12:06 **QUANTITATIVE CT TEXTURE FEATURES CAN NON-INVASIVELY PREDICT MYCN GENE AMPLIFICATION STATUS IN NEUROBLASTOMA**
 Eelin Tan ⁽¹⁾, Khurshid Merchant ⁽²⁾, Seyed Ehsan Saffari ⁽³⁾, Joseph Zhao ⁽⁴⁾, Edna Aw ⁽¹⁾, Kenneth Chang ⁽²⁾, Phua Hwee Tang ⁽¹⁾
⁽¹⁾ KK Womens and Childrens Hospital - Diagnostic and Interventional Imaging, Singapore (SINGAPORE), ⁽²⁾ KK Womens and Childrens Hospital - Department of Pathology and Laboratory Medicine, Singapore (SINGAPORE), ⁽³⁾ Duke NUS Medical School - Centre for Quantitative Medicine, Singapore (SINGAPORE), ⁽⁴⁾ National University of Singapore - Yong Loo Lin School of Medicine, Singapore (SINGAPORE)
- 12:06-12:14 **VALIDATION OF LOW DOSE CHEST CT EQUIVALENT TO TWO TWO-VIEW CHEST RADIOGRAPHS FOR DETECTION OF LUNG NODULES**
 Samjhana Thapaliya ⁽¹⁾, Leah Gilligan ⁽²⁾, Samuel Brady ⁽¹⁾, Christopher Anton ⁽¹⁾, Michael Nasser ⁽¹⁾, Eric Crotty ⁽¹⁾, Jonathan Dillman ⁽¹⁾, Andrew Trout ⁽¹⁾
⁽¹⁾ Cincinnati Children's Hospital Medical Center, Department of Radiology, Cincinnati (USA), ⁽²⁾ Northwestern University Feinberg School of Medicine; Department of Radiology, Chicago (USA)
- 12:14-12:22 **VIRTUAL SURGICAL PLANNING AND PATIENT-SPECIFIC 3D-PRINTED MODELS FROM MULTIMODAL IMAGING FOR IMPROVED OUTCOMES IN PEDIATRIC ORTHOPEDIC TUMOR RESECTION**
 Jayanthi Parthasarathy, Mitchell Rees, Bhavani Selvaraj, Thomas Scharschmidt
 Nationwide Children's hospital, Columbus (USA)
- 12:22-12:30 **E-CIGARETTE OR VAPING PRODUCT USE ASSOCIATED LUNG INJURY (EVALI) IN ADOLESCENTS**
 Jihyun Kang, Brandon Lei, Ryan Webb, Haneen Ali, Ami Gokli
⁽¹⁾ Staten Island University Hospital, Staten Island (USA)



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- 12:30-12:38 **MR-EVALUATION OF WHITE MATTER AFTER THERAPY WITH HIGH-DOSE METHOTREXATE USING QUANTITATIVE T2 RELAXATION TIME AND ADC VALUES IN PEDIATRIC PATIENTS WITH LEUKEMIA**
Luciana Porto, Rafael Willems
Goethe Frankfurt University, Frankfurt (GERMANY)
- 12:38-12:46 **EXTERNAL VALIDATION OF THE 2017 CHILDREN'S HEPATIC TUMORS INTERNATIONAL COLLABORATION-HEPATOBLASTOMA STRATIFICATION (CHIC-HS) SYSTEM IN PATIENTS WITH HEPATOBLASTOMA**
Pyeong Hwa Kim ⁽¹⁾, Hee Mang Yoon ⁽¹⁾, Hyun Joo Shin ⁽²⁾, Ah Young Jung ⁽¹⁾, Young Ah Cho ⁽¹⁾, Jin Seong Lee ⁽¹⁾
⁽¹⁾ Asan Medical Center, Seoul (SOUTH KOREA), ⁽²⁾ Severance Children's Hospital, Seoul (SOUTH KOREA)
- 12:46-12:54 **DIRECT CORRELATION OF MRI WITH HISTOPATHOLOGY IN PEDIATRIC RENAL TUMORS THROUGH THE USE OF A PATIENT-SPECIFIC 3D-PRINTED CUTTING GUIDE: A PILOT STUDY**
Justine N. van der Beek ^(1,2), Matthijs Fitski ⁽³⁾, Ronald R. de Krijger ^(1,4), Marc H.W.A. Wijnen ⁽³⁾, Marry M. van den Heuvel-Eibrink, Alida F.W. van der Steeg ⁽³⁾, Annemieke S. Littooi ^(1,2)
⁽¹⁾ Princess Máxima Center for Pediatric Oncology, Utrecht (THE NETHERLANDS), ⁽²⁾ Department of Radiology and Nuclear Medicine, University Medical Center Utrecht/Wilhelmina Children's Hospital, Utrecht (THE NETHERLANDS), ⁽³⁾ Department of Pediatric Surgery, Princess Máxima Center for Pediatric Oncology, Utrecht (THE NETHERLANDS), ⁽⁴⁾ Department of Pathology, University Medical Center Utrecht, Utrecht (THE NETHERLANDS)
- 13:00-13:15 **Approach to thyroid nodules in children**
Monica Epelman (Orlando, USA)

13:30-15:00 Pediatric radiology editorial board lunch meeting

14:30 [Adjourn](#)

09:00-17:00 Cases of the Day

Moderators: Neil Johnson (Cincinnati, USA), Aurelio Secinaro (Rome, Italy)

NOT CME ACCREDITATION



Thursday, October 14, 2021

6:45-8:30 **Breakfast**

6:30-17:00 **Registration**

7:30-8:20 **SUNRISE SESSION 2-A** **Technology & AI**

Moderators:

7:30-7:55 **Deep Learning and AI in abdominal imaging**
TBD

7:55-8:20 **Deep learning algorithms for detection of pediatric chest pathology**
Matthew Lungren (Stanford, USA)

7:30-8:20 **SUNRISE SESSION 2-B** **Neuro**

Moderators:

7:30-7:55 **ASL perfusion of the pediatric brain: advantages and pitfalls**
Arastoo Vossough (Philadelphia, USA)

7:55-8:20 **Voxel wise analysis of the brain: making it easy for pediatric radiologists**
Loukas G. Astrakas (Ioannina, Greece)

7:30-8:20 **SUNRISE SESSION 2-C** **Radioprotection**

Moderators:

7:30-7:55 **Radiation protection issues in nuclear medicine: an update**
TBD

7:55-8:20 **Radiation protection issues in CT: an update**
Erich Sorantin (Graz, Austria)



Thursday, October 14, 2021

8:30-10:00 CATEGORICAL COURSE VII-A

Oncology: the essentials

Moderators: ESPR & SPR

- 8:30-8:48 **Common abdominal tumors : location, location location!**
Annemieke Littooi (Utrecht, The Netherlands)
- 8:48-9:06 **Lumps and bumps of the extremities**
Jesse Courtier (San Francisco, USA)
- 9:06-9:24 **Common CNS tumors: location, location, location!**
Marjolein Dremmen (Rotterdam, The Netherlands)
- 9:24-9:42 **Common chest masses**
Robert Paul Guillerman (Houston, USA)
- 9:42-10:00 **Cases: name that mass**
Oystein Olsen (London, UK)

8:30-10:00 CATEGORICAL COURSE VII-B

Thoracic: tips for specialists

Moderators: ESPR & SPR

- 8:30-8:48 **Lung infections in 2021: what is new and what we have learned**
György Balázs (Budapest, Hungary)
- 8:48-9:06 **Pattern recognition for a new classification system (ILD)**
Edward Y. Lee (Boston, USA)
- 9:06-9:24 **Pediatric thoracic neoplasms: beyond the imaging and above genetics**
Ignasi Barber (Barcelona, Spain)
- 9:24-9:42 **Private tour of pediatric thoracic trauma imaging**
Domen Plut (Ljubljana, Slovenia)
- 9:42-10:00 **Pediatric chest : "zebra" diagnoses (cases)**
Monica Epelman (Orlando, USA)

10:00-10:30 **Break**



Thursday, October 14, 2021

10:30-11:55 **SCIENTIFIC SESSION IV-A: NEURO - Are genes or environments in control with CNS diseases?**

Moderators: ESPR & SPR

10:30-10:45 **Emerging genotype/phenotype correlations in neuro-oncology**
David Mirsky (Aurora, USA)

10:45-11:40 **SCIENTIFIC PAPERS**

10:45-10:53 **GENETIC, CLINICAL, AND IMAGING PREDICTORS OF ATAXIA IN PEDIATRIC
PRIMARY MITOCHONDRIAL DISORDERS**

Luis Octavio Tierradentro-García, Juan Sebastian Martin-Saavedra ^(1,2,3), Sara Reis Teixeira, Cesar Augusto Alves, Fabrício Gonçalves, Martin Kidd ⁽⁴⁾, Colleen Muraresku ⁽⁵⁾, Amy Goldstein ^(5,6), Arastoo Vossough ^(1,7)

⁽¹⁾ Division of Neuroradiology, Department of Radiology, Children's Hospital of Philadelphia, Philadelphia (UNITED STATES), ⁽²⁾ Department of Pediatrics, St. Christopher's Hospital for Children, Philadelphia (UNITED STATES), ⁽³⁾ Clinical Research Group, Escuela de Medicina y Ciencias de la Salud, Universidad del Rosario, Bogota (COLOMBIA), ⁽⁴⁾ Central for Statistical Consultation, Stellenbosch University, Stellenbosch (SOUTH AFRICA), ⁽⁵⁾ Mitochondrial Medicine Frontier Program, Division of Human Genetics, Department of Pediatrics, CHOP, Philadelphia (UNITED STATES), ⁽⁶⁾ Department of Pediatrics, University of Pennsylvania Perelman School of Medicine, Philadelphia (UNITED STATES), ⁽⁷⁾ Department of Radiology, University of Pennsylvania Perelman School of Medicine, Philadelphia (UNITED STATES)



Thursday, October 14, 2021

- 10:53-11:01 **WIDENING THE NEUROIMAGING FEATURES OF ADENOSINE DEAMINASE 2 DEFICIENCY**
 Ana Geraldo ⁽¹⁾, Roberta Caorsi ⁽²⁾, Domenico Tortora ⁽³⁾, Carlo Gandolfo ⁽⁴⁾, Rosa Ammendola ⁽³⁾, Maria Alessio ⁽⁵⁾, Giovanni Conti ⁽⁶⁾, Antonella Insalaco ⁽⁷⁾, Serena Pastore ⁽⁸⁾, Silvana Martino ⁽⁹⁾, Isabella Ceccherini ⁽¹⁰⁾, Sara Signa ⁽²⁾, Marco Gattorno ⁽²⁾, Andrea Rossi ⁽¹⁾, Mariasavina Severino ⁽¹⁾
⁽¹⁾ Diagnostic Neuroradiology Unit, Centro Hospitalar Vila Nova de Gaia/ Espinho EPE, Vila Nova de Gaia (PORTUGAL), ⁽²⁾ Center for Autoinflammatory diseases and Immunodeficiencies, IRCCS Istituto Giannina Gaslini, Genoa (ITALY), ⁽³⁾ Neuroradiology Unit, IRCCS Istituto Giannina Gaslini, Genoa (ITALY), ⁽⁴⁾ Interventional Unit, IRCCS Istituto Giannina Gaslini, Genoa (ITALY), ⁽⁵⁾ Department of Translational Medical Sciences Federico II University of Naples, Naples (ITALY), ⁽⁶⁾ Pediatric Nephrology and Rheumatology Unit, AOU G Martino, Messina (ITALY), ⁽⁷⁾ Division of Rheumatology, IRCCS Ospedale Pediatrico Bambino Gesù, Rome (ITALY), ⁽⁸⁾ Department of Pediatrics, Institute for Maternal and Child Health - IRCCS Burlo Garofolo, Trieste (ITALY), ⁽⁹⁾ Division of Pediatric Immunology and Rheumatology, Department of Public Health and Pediatrics, Regina Margherita Childre, Turin (ITALY), ⁽¹⁰⁾ UOSD Genetics and Genomics of Rare Diseases, IRCCS Istituto Giannina Gaslini, Genoa (ITALY)
- 11:01-11:09 **SWALLOWING DIFFICULTIES AND BREATHING DIFFICULTIES IN CHILDREN WITH SPINA BIFIDA- ARE THESE A COMPLICATION OF COMPRESSION AT THE FORAMEN MAGNUM OR OF DYSPLASTIC BRAIN DEVELOPMENT?**
 Matylda Sheehan ⁽¹⁾, Fiona Healy ⁽²⁾, Aoibhinn Walsh ⁽²⁾, Irwin Gill ⁽²⁾, Jane Leonard ⁽²⁾, Kieron Sweeney ⁽³⁾, Stephanie Ryan ⁽¹⁾
⁽¹⁾ Children's Health Ireland at Temple Street, Dept of Radiology, Dublin (IRELAND), ⁽²⁾ Children's Health Ireland at Temple Street, Dept of Paediatrics, Dublin (IRELAND), ⁽³⁾ Children's Health Ireland at Temple Street, Dept of Neurosurgery, Dublin (IRELAND)
- 11:09-11:17 **KRABBE DISEASE AND METACHROMATIC LEUKODYSTROPHY: COMPARISON OF INITIAL MRI FINDINGS FOR DIFFERENTIAL DIAGNOSIS**
 YoungHun Choi ⁽¹⁾, Seulbi Lee ⁽¹⁾, Seunghyun Lee ⁽¹⁾, Yeon Jin Cho ⁽¹⁾, Jung-Eun Cheon ⁽¹⁾, Woo Sun Kim ⁽¹⁾, Jae-Yeon Hwang ⁽²⁾
⁽¹⁾ Seoul National University Children's Hospital, Seoul (SOUTH KOREA), ⁽²⁾ Pusan National University Yangsan Hospital, Seoul (SOUTH KOREA)



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- 11:17-11:25 **CORPUS CALLOSUM THICKNESS IN NF1 AND ITS CORRELATION WITH COGNITIVE, DEVELOPMENTAL, INTELLECTUAL ASSESSMENT, AUTISM SPECTRUM, AND ADHD**
Monica Miranda Schaeubinger, Luis Tierradentro Garcia, Jorge Kim, Cesar Alves, Savvas Andronikou
Children's Hospital of Philadelphia, Department of Radiology, Philadelphia (USA)
- 11:25-11:33 **CERVICAL INTERNAL CAROTID ARTERIOPATHY IN CHILDREN WITH SICKLE CELL ANEMIA. TEN-YEAR FOLLOW-UP**
Suzanne Verlhac ⁽¹⁾, Alexandra Ntorkou ⁽¹⁾, Ghislaine Ithier ⁽²⁾, Camelia Oloukoi ⁽¹⁾, Mariane Alison ⁽¹⁾
⁽¹⁾ *Pediatric Imaging Department, Robert Debre Hospital, APHP, PARIS (FRANCE)*, ⁽²⁾ *Referral center for sickle cell disease, Robert Debre Hospital, APHP, PARIS (FRANCE)*
- 11:40-11:55 **Should we know more about genetic pathways in cortical malformations?**
Kshitij Mankad (London, UK)

10:30-11:55 SCIENTIFIC SESSION IV-B: GASTROINTESTINAL - Star Trek here we come! Changes in abdominal imaging and biological markers

Moderators: ESPR & SPR

- 10:30-10:45 **What we know so far**
Rutger-Jan Nievelstein (Utrecht, The Netherlands)

10:45-11:40 SCIENTIFIC PAPERS

- 10:45-10:53 **MULTI-INSTITUTIONAL SPR-VENDOR COLLABORATION FOR PEDIATRIC FREE-BREATHING ABDOMINAL MRI PROTOCOL OPTIMIZATION**
Cara Morin ⁽¹⁾, Vibhas Deshpande ⁽²⁾, Lindsay Griffin ⁽³⁾, Pedro Itriago Leon ⁽²⁾, Brian Dale ⁽²⁾, Sherwin Chan ⁽⁴⁾, Govind Chavhan ⁽⁵⁾, Michael Gee ⁽⁶⁾, Suraj Serai ⁽⁷⁾, Susan Sotardi ⁽⁷⁾, Teresa Victoria ⁽⁷⁾, Michael Moore ⁽⁸⁾
⁽¹⁾ *St. Jude Childrens Research Hospital, Memphis (USA)*, ⁽²⁾ *Siemens Healthineers, Malvern (USA)*, ⁽³⁾ *Ann & Robert H Lurie Childrens Hospital of Chicago, Chicago (USA)*, ⁽⁴⁾ *Childrens Mercy Hospital, Kansas City (USA)*, ⁽⁵⁾ *Hospital for Sick Children, University of Toronto, Toronto (CANADA)*, ⁽⁶⁾ *Mass General Hospital/Harvard Medical School, Boston (USA)*, ⁽⁷⁾ *Childrens Hospital of Philadelphia, Philadelphia (USA)*, ⁽⁸⁾ *Penn State Children's Hospital, Hershey (USA)*



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- 10:53-11:01 **SURVEY OF PEDIATRIC RADIOLOGY DEPARTMENTS REGARDING THE USE OF RAPID MRI FOR ABDOMINAL PAIN**
Pinar Karakas Rothey ⁽¹⁾, Govind Chavlan ⁽²⁾, Taylor Chung ⁽¹⁾, Cara Morin ⁽³⁾, Lara Farras ⁽²⁾, Subramanian Subramanian ⁽⁴⁾, Summer Kaplan ⁽⁵⁾, James Brian ⁽⁶⁾, Michael Aquino ⁽⁷⁾
⁽¹⁾ UCSF Benioff Childrens Hospital Oakland, Oakland, CA (USA), ⁽²⁾ The Hospital for Sick Children, Toronto (CANADA), ⁽³⁾ St. Jude Hospital, Memphis, TN (USA), ⁽⁴⁾ UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA (USA), ⁽⁵⁾ Childrens Hospital of Philadelphia, Philadelphia (USA), ⁽⁶⁾ Penn State Hershey Medical Center, Hershey, PA (USA), ⁽⁷⁾ Cleveland Clinic, Cleveland, OH (USA)
- 11:01-11:09 **SHEAR WAVE ELASTOGRAPHY HAS POTENTIAL TO CLASSIFY NON-FIBROTIC LIVER TISSUE IN CHILDREN WITH SUSPECTED OR ESTABLISHED LIVER DISEASE NON-INVASIVELY: A PROSPECTIVE STUDY WITH HISTOLOGIC CORRELATION**
Hanna Hebelka ⁽¹⁾, Charlotte De Lange ⁽¹⁾, Håkan Boström ⁽¹⁾, Jenny Ahlin ⁽¹⁾, Mela Brink ⁽¹⁾, Nils Ekvall ⁽³⁾, Kerstin Lagerstrand ⁽²⁾
⁽¹⁾ Institute of Clinical Sciences, Sahlgrenska Academy, University of Gothenburg, Dept. of Pediatric Radiology, Gothenburg (SWEDEN), ⁽²⁾ Institute of Clinical Sciences, Sahlgrenska Academy, University of Gothenburg, Dept. of Medical Physics and Techniques, Gothenburg (SWEDEN), ⁽³⁾ Institute of Clinical Sciences, Sahlgrenska Academy, University of Gothenburg, Dept. of Pediatric Medicine, Gothenburg (SWEDEN)
- 11:09-11:17 **IMPACT OF PREOPERATIVE CT-BASED BODY METRICS ON POSTOPERATIVE COMPLICATIONS IN PEDIATRIC LIVER TRANSPLANT RECIPIENTS.**
Martijn Verhagen ⁽¹⁾, Stef Levolger ⁽¹⁾, Jan Binne Hulshoff ⁽¹⁾, Maureen Werner ⁽²⁾, Hubert van der Doef ⁽³⁾, Alain Viddeleer ⁽¹⁾, Ruben de Kleine ⁽²⁾, Robbert de Haas ⁽¹⁾
⁽¹⁾ UMCG, Department of radiology, Groningen (THE NETHERLANDS), ⁽²⁾ UMCG, Department of hepatobiliary surgery, Groningen (THE NETHERLANDS), ⁽³⁾ UMCG, Department of pediatric gastroenterology, Groningen (THE NETHERLANDS)
- 11:17-11:25 **ULTRASOUND LIVER STIFFNESS IS A GOOD BIOMARKER OF GRAFT CONDITION AT THE EARLY PHASE FOLLOWING PAEDIATRIC LIVER TRANSPLANTATION**
David Missud, Clément Escallard, Hélène Agostini, Inès Mannes, Danièle Pariente, Catherine Adamsbaum, Stéphanie Franchi-Abella
Hôpital Bicêtre - APHP, Le Kremlin-Bicêtre (FRANCE)



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- 11:25-11:33 **CORRELATION BETWEEN QUANTITATIVE MRI BIOMARKERS AND CLINICAL RISK SCORES IN CHILDREN AND YOUNG ADULTS WITH AUTOIMMUNE LIVER DISEASE**
Joseph McCrary, Jonathan Dillman ^(1,2), Neeraja Mahalingam, Ruchi Singh ⁽³⁾, Andrew Trout ^(1,2), Cyd Castro Rojas ⁽³⁾, Alexander Miethke ^(3,4)
⁽¹⁾ Cincinnati Children's Hospital Medical Center, Department of Radiology, Cincinnati (USA), ⁽²⁾ University of Cincinnati College of Medicine, Department of Radiology, Cincinnati (USA), ⁽³⁾ Cincinnati Children's Hospital Medical Center, Division of Pediatric Gastroenterology, Hepatology and Nutrition, Cincinnati (USA), ⁽⁴⁾ University of Cincinnati College of Medicine, Department of Pediatrics, Cincinnati (USA)
- 11:40-11:55 **Functional imaging of the future**
Jonathan Dillman (Cincinnati, USA)

10:30-11:55 SCIENTIFIC SESSION IV-C: THORACIC - Fifty shades of lymphatic imaging: visualization of the invisible vessels

Moderators: ESPR & SPR

- 10:30-10:45 **In acquired diseases**
Dave Biko (Philadelphia, USA)
- 10:45-11:40 **SCIENTIFIC PAPERS**
- 10:45-10:53 **THE USE OF MAGNETIC RESONANCE LYMPHANGIOGRAPHY TO IMPROVE OUR UNDERSTANDING OF LYMPHATIC DISEASE IN NOONAN SYNDROME**
Lotte Elisabeth Kleimeier, Jos M.T. Draaisma, Willemijn M. Klein
Radboud university medical centre, Nijmegen (THE NETHERLANDS)
- 10:53-11:01 **FERUMOXYTOL-ENHANCED DYNAMIC MR LYMPHANGIOGRAPHY: A NOVEL ALTERNATIVE METHOD TO GADOLINIUM-BASED CONTRAST AGENTS IN MR LYMPHATIC IMAGING IN CHRONIC KIDNEY DISEASE**
Ensar Yekeler ⁽¹⁾, Ganesh Krishnamurthy ⁽²⁾, Christopher L. Smith ⁽³⁾, Fernando A. Escobar ⁽²⁾, Erin Pinto ⁽⁴⁾, Jordan B. Rapp ⁽²⁾, Hansel J. Otero ⁽²⁾, Ammie M. White ⁽²⁾, Yoav Dori ⁽³⁾, David M. Biko ⁽²⁾
⁽¹⁾ Department of Radiology, Children's Hospital of Philadelphia, Philadelphia (USA), ⁽²⁾ Department of Radiology, Children's Hospital of Philadelphia, University of Pennsylvania Perelman School of Medicine, Philadelphia (USA), ⁽³⁾ Division of Cardiology, Children's Hospital of Philadelphia, University of Pennsylvania Perelman School of Medicine, Philadelphia (USA), ⁽⁴⁾ Center for Lymphatic Imaging and Interventions, Children's Hospital of Philadelphia, Philadelphia (USA)



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- 11:01-11:09 **THE USE OF INTRANODAL MR LYMPHANGIOGRAPHY IN PEDIATRIC UNIVERSITY HOSPITAL**
Caroline van Schaik ⁽¹⁾, Jan Jaap Janssen ⁽²⁾, Sjoerd Jenniskens ⁽³⁾, Leo Schultze Kool ⁽⁴⁾, Willemijn Klein ⁽⁵⁾
⁽¹⁾ Radboudumc, Nijmegen (THE NETHERLANDS), ⁽²⁾ Radboudumc, Nijmegen (THE NETHERLANDS), ⁽³⁾ Radboudumc, Nijmegen (THE NETHERLANDS), ⁽⁴⁾ Radboudumc, Nijmegen (THE NETHERLANDS), ⁽⁵⁾ Radboudumc, Nijmegen (THE NETHERLANDS)
- 11:09-11:17 **DYNAMIC CONTRAST-ENHANCED MAGNETIC RESONANCE LYMPHANGIOGRAPHY IN A PEDIATRIC TERTIARY HOSPITAL IN SWITZERLAND**
Ralph Gnannt, Hitendu Dave, Luregn Schlapbach, Christian Kellenberger
Children's Hospital Zurich, Zurich (SWITZERLAND)
- 11:17-11:25 **IMAGING FINDINGS OF COPA SYNDROME**
HaiThuy Nguyen ⁽¹⁾, Tiphonie Vogel ⁽²⁾, Manuel Silva-Carmona ⁽³⁾, Marietta DeGuzman ⁽²⁾, R. Paul Guillerman ⁽¹⁾
⁽¹⁾ Texas Children's Hospital - Department of Radiology, Houston (USA), ⁽²⁾ Texas Children's Hospital - Department of Pediatrics, Rheumatology, Houston (USA), ⁽³⁾ Texas Children's Hospital - Department of Pediatrics, Pulmonology, Houston (USA)
- 11:25-11:33 **THORACIC MDCT FINDINGS OF DOCK8 IMMUNODEFICIENCY SYNDROME IN CHILDREN**
Edward Y. Lee ⁽¹⁾, Sara Vargas ⁽²⁾, Jonathan Gaffin ⁽³⁾, Janet Chou ⁽⁴⁾, Abbey Winant ⁽⁵⁾
⁽¹⁾ Boston Children's Hospital and Harvard Medical School, Department of Radiology, Boston (USA), ⁽²⁾ Boston Children's Hospital and Harvard Medical School, Department of Pathology, Boston (USA), ⁽³⁾ Boston Children's Hospital and Harvard Medical School, Department of Pediatrics, Boston (USA), ⁽⁴⁾ Boston Children's Hospital and Harvard Medical School, Department of Pediatrics, Boston (USA), ⁽⁵⁾ Boston Children's Hospital and Harvard Medical School, Department of Radiology, Boston (USA)
- 11:40-11:55 **In congenital disorders**
Willemijn Klein (Nijmegen, The Netherlands)



Thursday, October 14, 2021

10:30-11:55 SCIENTIFIC SESSION IV-D: NUCLEAR MEDICINE - The world of PET/MR

Moderators: ESPR & SPR

10:30-10:45 **Whole-body PET/MRI of pediatric patients: details that matter in the clinic**
Heike Daldrup-Link (Stanford, USA)

10:45-11:40 SCIENTIFIC PAPERS

10:45-10:53 **ROLE OF LOW DOSE 18F-FDG-PET/MRI IN THE DETECTION OF INFLAMMATORY AIRWAY CHANGES IN CHILDREN WITH CYSTIC FIBROSIS**
Ricarda Schwarz ⁽¹⁾, Mareen Kraus ⁽¹⁾, Philipp Utz ⁽²⁾, Ute Graepler-Mainka ⁽²⁾, Helmut Dittmann ⁽³⁾, Ilias Tsiflikas ⁽¹⁾, Sergios Gatidis ⁽¹⁾, Jürgen Schäfer ⁽¹⁾, Michael Esser ⁽¹⁾
⁽¹⁾ Radiology Department, university hospital Tübingen, Tübinge (GERMANY), ⁽²⁾ Pediatric Department, university hospital Tübingen, Tübingen (GERMANY), ⁽³⁾ Department for nuclear medicine, university hospital Tübingen, Tübingen (GERMANY)

10:53-11:01 **GASTROINTESTINAL INVOLVEMENT OF POST-TRANSPLANT LYMPHOPROLIFERATIVE DISORDER (PTLD) AND THE UTILITY OF 18F-FDG POSITRON EMISSION TOMOGRAPHY (PET)**
Jennifer Gillman, J. Christopher Davis, Lisa J. States
Children's Hospital of Philadelphia, Philadelphia (USA)

11:01-11:09 **IMAGING CHEMOTHERAPY-INDUCED BRAIN DAMAGE IN PEDIATRIC CANCER SURVIVORS.**
Diana Lopez, Lucia Baratto, Florian Siedek, Ali Rashidi, Michael Iv, Hieke Dandrup
Stanford University, Palo Alto (USA)

11:09-11:17 **ULTRASOUND DETERMINATION OF PEDIATRIC THYROID MASS**
Abigail Crothers ⁽¹⁾, Janet Chuang ⁽²⁾, Susan Sharp ⁽³⁾, Sarah Szabo ⁽⁴⁾, Bin Zhang ⁽⁵⁾, Andrew Trout ⁽³⁾
⁽¹⁾ University of Cincinnati College of Medicine, Cincinnati (USA), ⁽²⁾ Cincinnati Children's Hospital Medical Center, Division of Endocrinology, Cincinnati (USA), ⁽³⁾ Cincinnati Children's Hospital Medical Center, Department of Radiology, Cincinnati (USA), ⁽⁴⁾ Cincinnati Children's Hospital Medical Center, Division of Pathology and Laboratory Medicine, Cincinnati (USA), ⁽⁵⁾ Cincinnati Children's Hospital Medical Center, Division of Biostatistics and Epidemiology, Cincinnati (USA)



Thursday, October 14, 2021

- 11:17-11:25 **CLINICAL SIGNIFICANCE OF MULTIPLE COLLOID NODULES IN CHILDREN**
Zuhal Bayramoglu, Zeynep Nur Akyol Sari
Istanbul University, Istanbul Medical Faculty, Radiology Department, Istanbul (TURKEY)
- 11:25-11:33 **A META-ANALYSIS ON THE DIAGNOSTIC PERFORMANCE OF WHOLE-BODY MRI VERSUS FDG-PET/CT FOR THE INITIAL STAGING OF HODGKIN LYMPHOMA**
Suzanne Spijkers ⁽¹⁾, Annemieke S. Littooi ^(1,2), Auke Beishuizen ⁽²⁾, Marnix G.E.H. Lam ^(1,2), Rutger A.J. Nievelstein ^(1,2)
⁽¹⁾ *Department of Radiology and Nuclear Medicine, University Medical Centre Utrecht/Wilhelmina Childrens Hospital, Utrecht (THE NETHERLANDS)*,
⁽²⁾ *Princess Máxima Center for Pediatric Oncology, Utrecht (THE NETHERLANDS)*
- 11:40-11:55 **Will hybrid imaging replace conventional MR in pediatric oncology?**
Maria Carmen Garganese (Rome, Italy)

12:00-12:30 JeSPeR Lecture

Moderators: ESPR & SPR

Imaging challenges in the assessment of response to therapy in pediatric neurooncology

Zoltan Patay (Memphis, USA)

13:00-13:30 Industry - Sponsored Symposium (NO CME ACCREDITATION)

13:50-15:15 IPR Olympics Panel

Quiz Masters: Thierry A.G.M Huisman (Houston, USA);
Rutger-Jan Nievelstein (Utrecht, The Netherlands)

Team ESPR: Fred Avni (Brussels, Belgium);
Pek-Lan Khong (Hong Kong); Catherine Owens (Doha, Qatar);
Rick van Rijn (Amsterdam, The Netherlands);
Mariasavina Severino (Genoa, Italy)

Team SPR: Kassa Darge (Philadelphia, USA); Nilesh Desai (Houston, USA);
Pilar Dies-Suarez (Mexico City, Mexico), Monica Epelman (Orlando, USA),
Rajesh Krishnamurthy (Columbus, USA), Peter Strouse (Ann Arbor, USA)



Thursday, October 14, 2021

15:20-16:20 CATEGORICAL COURSE VIII-A

Thoracic: the essentials

Moderators: ESPR & SPR

15:20-15:35 **Neonatal chest imaging: old fashioned cookies with new sprinkles**

Mark Liszewski (Bronx, USA)

15:35-15:50 **Congenital malformations of lungs and airways**

Eleonore Blondiaux (Paris, France)

15:50-16:05 **Chest wall masses**

Annie Paterson (Belfast, UK)

16:05-16:20 **Pediatric chest "must know diagnoses" (cases)**

Winnie Chu (Hong Kong)

15:20-16:20 CATEGORICAL COURSE VIII-B

Oncology: tips for specialists

Moderators: ESPR & SPR

15:20-15:35 **Contrast enhanced ultrasound as a problem solving tool in pediatric oncology**

Beth McCarville (Memphis, USA)

15:35-15:50 **AI in pediatric oncologic imaging**

Heike Daldrup-Link (Stanford, USA)

15:50-16:05 **Tumors in syndromes: what is important, when to screen**

Ellen Chung (Columbus, USA)

16:05-16:20 **Tumor or not (tumors vs their mimics; cases)**

Maria Raissaki (Iraklion, Greece)

16:20-16:50 **Break**



Thursday, October 14, 2021

16:50-18:00 SCIENTIFIC SESSION V-A: ARTIFICIAL INTELLIGENCE AND INFORMATICS Integrating AI tools into pediatric radiology practice

Moderators: ESPR & SPR

16:50-17:05 **Current state of artificial intelligence tools in pediatric radiology: how can we improve our workflow?**
Safwan Halabi (Stanford, USA)

17:05-17:45 SCIENTIFIC PAPERS

17:05-17:13 **MOST OF WHAT YOU NEED TO KNOW ABOUT THE PEDS AI LITERATURE IN 6 MINUTES OR LESS**

Brendan Kelly ⁽¹⁾, Ronan Killeen ⁽¹⁾, Aonghus Lawlor ⁽²⁾, Gabrielle Colleran ⁽³⁾
⁽¹⁾ St Vincents University Hospital, Dublin (IRELAND), ⁽²⁾ Insight @ UCD, Dublin (IRELAND), ⁽³⁾ CHI @ Temple Street University Hospital, Dublin (IRELAND)

17:13-17:21 **DEEP LEARNING ASSISTED DIAGNOSIS OF PEDIATRIC SKULL FRACTURE ON PLAIN RADIOGRAPHY**

Yeon Jin Cho, Seul Bi Lee, Jae Won Choi, Seunghyun Lee, Young Hun Choi, Jung-Eun Cheon, Woo Sun Kim
Seoul National University Hospital-Department of Radiology, Seoul (SOUTH KOREA)

17:21-17:29 **CONVOLUTIONAL NEURAL NETWORK FOR AUTOMATIC QUANTIFICATION OF LOWER EXTREMITY ALIGNMENT IN CHILDREN**

Andy Tsai
Boston Children's Hospital, Boston (UNITED STATES)

17:29-17:37 **CAN A DEEP LEARNING MODEL AUTOMATE RADIOLOGICAL ANGLE MEASURES USED TO EVALUATE AND MANAGE CLUBFOOT?**

Daniella Patton, Adarsh Ghosh, Amy Farkas, Susan Sotardi ^(1,2), Michael Francavilla ^(1,2), Shyam Venkatakrishna, Minuhi Ouyang ⁽³⁾, Hao Huang ^(1,3), Richard Davidson, Raymond Sze ^(1,2), Jie Nguyen ^(1,2)
⁽¹⁾ Department of Radiology, The Children's Hospital of Philadelphia, Philadelphia (USA), ⁽²⁾ University of Pennsylvania School of Medicine, Philadelphia (USA), ⁽³⁾ Department of Radiology, Perelman School of Medicine, University of Pennsylvania, Philadelphia (USA)



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- 17:37-17:45 **INFERRING PEDIATRIC KNEE SKELETAL MATURITY FROM MRI USING DEEP LEARNING**
John Zech ⁽¹⁾, Giuseppe Carotenuto ⁽²⁾, Diego Jaramillo ⁽³⁾
⁽¹⁾ New York Presbyterian - Columbia University Irving Medical Center, New York (USA), ⁽²⁾ New York Presbyterian - Columbia University Irving Medical Center, New York (USA), ⁽³⁾ New York Presbyterian - Columbia University Children's Hospital of New York, New York (USA)
- 17:45-18:00 **Human-machine partnership in pediatric radiology: how can AI help us?**
Susan Shelmerdine (London, UK)

16:50-18:00 SCIENTIFIC SESSION V-B : EDUCATION AND CAREER DEVELOPMENT

Moderators: Maria Raissaki (Iraklion, Greece) & SPR

- 16:50-17:05 **Across the big pond: fostering career development**
Birgit Ertl-Wagner (Toronto, Canada)
- 17:05-17:20 **Pediatric radiology - perspectives from a medical student**
Arielle Vansyckel (Indianapolis, USA)
- 17:20-17:35 **Establishing competence in pediatric radiology**
William Ramsden (Leeds, UK)
- 17:35-17:50 **What is so great about pediatric radiology?**
Brandon Brown (Indianapolis, USA)
- 17:50-18:00 **Discussion**

16:50-18:00 SCIENTIFIC SESSION V-C: ONCOLOGY - Late effects in survivors of childhood cancer, brain and spine

Moderators: ESPR & SPR

- 16:50-17:05 **What are the late effects in survivors of childhood cancer?**
Jean-François Chateil (Bordeaux, France)

17:05-17:45 SCIENTIFIC PAPERS

- 17:05-17:12 **FOLLOW-UP MRI AFTER INTRA-ARTERIAL CHEMOTHERAPY FOR RETINOBLASTOMA: SIGNIFICANCE OF OPTIC NERVE ENHANCEMENT**
Liesbeth Cardoen ⁽¹⁾, Arnaud Gauthier ⁽¹⁾, Alexandre Matet ⁽¹⁾, Nayla Nicolas ⁽¹⁾, Livia Lumbroso-Le Rouic ⁽¹⁾, Isabelle Aerts ⁽¹⁾, Paul Freneaux ⁽¹⁾, Nathalie Cassoux ⁽¹⁾, François Doz ⁽¹⁾, Raphaël Blanc ⁽²⁾, Hervé J. Brisse ⁽¹⁾
⁽¹⁾ Institut Curie, Paris (FRANCE), ⁽²⁾ Hôpital Fondation Adolphe de Rothschild, Paris (FRANCE)



Thursday, October 14, 2021

17:12-17:19

MAGNETIC RESONANCE ELASTOGRAPHY OF PEDIATRIC GLIOMAS: A PRELIMINARY EXPERIENCE

Rahul Nikam ⁽¹⁾, Grace Mcilvain ⁽²⁾, Vinay Kandula ⁽¹⁾, Gurcharanjeet Kaur ⁽¹⁾, Andrew Walter ⁽¹⁾, Lauren Averill ⁽¹⁾, Arabinda Choudhary ⁽³⁾, Curtis Johnson ⁽²⁾
⁽¹⁾ Nemours Alfred I. duPont Hospital for Children, Wilmington (USA), ⁽²⁾ University of Delaware, Newark (USA), ⁽³⁾ University for Arkansas for Medical Sciences, Little Rock (USA)

17:19-17:26

MAGNETIC RESONANCE FEATURES AND CRANIAL NERVE INVOLVEMENT IN PEDIATRIC HEAD AND NECK RHABDOMYOSARCOMA

Giacomo Talenti ⁽¹⁾, Stefania Picariello ⁽²⁾, Caroline Robson ⁽³⁾, Russo Carmela ⁽⁴⁾, Slater Olga ⁽⁵⁾, Mertiri Livja ⁽⁶⁾, Bisdas Sotirios ⁽⁷⁾, Massimo Eraldo Abate ⁽⁸⁾, Perrotta Silverio ⁽⁹⁾, Richard Hewitt ⁽¹⁰⁾, Kshitij Mankad ⁽¹¹⁾, Felice D'Arco ⁽¹²⁾
⁽¹⁾ Azienda Ospedaliera Universitaria di Verona, Neuroradiology Unit, Verona, Italy, Verona (ITALY), ⁽²⁾ Department of Woman, Child and General and Specialized Surgery, University of Campania Luigi Vanvitelli, Naples, Ital, Naples (ITALY), ⁽³⁾ Boston Children's Hospital, Department of Radiology, Boston, Massachusetts, USA, Boston (USA), ⁽⁴⁾ Neuroradiology Department, Santobono Childrens Hospital, Naples, Italy, Naples (ITALY), ⁽⁵⁾ Neuro Oncology Department, Great Ormond Street Hospital for Children, London, UK, London (UNITED KINGDOM), ⁽⁶⁾ Great Ormond Street Hospital for Sick Children, Neuroradiology Department, London, UK, London (UNITED KINGDOM), ⁽⁷⁾ Lysholm Department of Neuroradiology, The National Hospital for Neurology and Neurosurgery, Queen Square 8-11, London WC, London (UNITED KINGDOM), ⁽⁸⁾ Pediatric Oncology, AORN Santobono-Pausilipon, Napoli, Italy, Naples (ITALY), ⁽⁹⁾ Pediatric Oncology, AORN Santobono-Pausilipon, Napoli, Italy, Naples (ITALY), ⁽¹⁰⁾ Ear, Nose and Throat Surgery Department, Great Ormond Street Hospital for Children NHS Trust, London, UK, London (UNITED KINGDOM), ⁽¹¹⁾ Great Ormond Street Hospital for Sick Children, Neuroradiology Department, London, UK, London (UNITED KINGDOM), ⁽¹²⁾ Great Ormond Street Hospital for Sick Children, Neuroradiology Department, London, UK, London (UNITED KINGDOM)



Thursday, October 14, 2021

- 17:26-17:33 **RADIOLOGIC CHARACTERIZATION OF PEDIATRIC POSTERIOR FOSSA EPENDYMOMAS: THE ROLE OF NEUROIMAGING IN DISTINGUISHING MOLECULAR SUBTYPES**
 Jorge Kim ⁽¹⁾, Fabricio Goncalves ⁽¹⁾, Luis Tierradentro-Garcia ⁽¹⁾, Alireza Zandifar ⁽¹⁾, Adarsh Ghosh ⁽²⁾, Dmitry Khrichenko ⁽¹⁾, Angela Viaene ⁽³⁾, Cesar Alves ⁽¹⁾, Sara Teixeira ⁽¹⁾, Savvas Andronikou ^(1,4), Arastoo Vossough ^(1,4)
⁽¹⁾ Department of Radiology, Division of Neuroradiology, The Children's Hospital of Philadelphia, Philadelphia (UNITED STATES), ⁽²⁾ Department of Radiology, Division of Body Imaging, The Children's Hospital of Philadelphia, Philadelphia (UNITED STATES), ⁽³⁾ Department of Pathology and Laboratory Medicine, Perelman School of Medicine, University of Pennsylvania, Philadelphia (UNITED STATES), ⁽⁴⁾ Department of Radiology, Perelman School of Medicine, University of Pennsylvania, Philadelphia (UNITED STATES)
- 17:33-17:40 **PATIENTS DOSE COMMUNICATIONS IN PEDIATRIC SETTING FOR COMMONS RADIOLOGICAL EXAMINATIONS: WHAT THE PARENTS WANT TO KNOW**
 Mario Pace ⁽¹⁾, Domenico Gagliano ⁽¹⁾, Claudio Granata ⁽²⁾, Andrea Magistrelli ⁽³⁾, Sergio Salerno ⁽¹⁾, Paolo Tomà ⁽³⁾
⁽¹⁾ Dipartimento di Biomedicina, Neuroscienze e Diagnostica avanzata, Policlinico Università di Palermo, Palermo (ITALY), ⁽²⁾ SCR di Radiologia Institute for Maternal and Child Health - IRCCS Burlo Garofolo, Trieste (ITALY), ⁽³⁾ Dipartimento Diagnostica per Immagini IRCCS Ospedale pediatrico Bambino Gesù Roma, Roma (ITALY)
- 17:45-18:00 **How to optimize detection of late effects, new techniques, or methods**
 Chang Y. Ho (Indianapolis, USA)

16:50-18:00 SCIENTIFIC SESSION V-D: **NUCLEAR MEDICINE - Theranostics: more than just a difficult word to pronounce**

Moderators: ESPR & SPR

- 16:50-17:05 **Theranostics: update on a silent revolution**
 TBD

17:05-17:45 SCIENTIFIC PAPERS

- 17:05-17:12 **EFFICIENCY OF RADIOLOGISTS WORKING FROM HOME DURING A PANDEMIC AT A QUATERNARY PEDIATRIC ACADEMIC HOSPITAL**
 Andrew Sher, Siddharth Jadhav, Victor Seghers, Nilesh Desai, Thierry Huisman, Marla Sammer
 Texas Children's Hospital - Department of Radiology, Baylor College of Medicine, Houston (USA)



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- 17:12-17:19 **A PHANTOM STUDY FOR DEEP LEARNING BASED CT IMAGE CONVERSION IMPROVING REPRODUCIBILITY OF RADIOMICS FOR PEDIATRIC ABDOMEN CT**
Seul Bi Lee ⁽¹⁾, Yeon Jin Cho ⁽¹⁾, Seunghyun Lee ⁽¹⁾, Young Hun Choi ⁽¹⁾, Jung-Eun Cheon ⁽¹⁾, Woo Sun Kim ⁽¹⁾, Youngtaek Hong ⁽²⁾, Hackjoon Shim ⁽²⁾, Dawun Jeong ⁽³⁾
⁽¹⁾ Seoul National University Hospital, Seoul (SOUTH KOREA), ⁽²⁾ CONNECT-AI Research Center, Yonsei University College of Medicine, Seoul (SOUTH KOREA), ⁽³⁾ Division of Biomedical Engineering, Hankuk University of Foreign Studies, Yongin, Seoul (SOUTH KOREA)
- 17:19-17:26 **AI IN PAEDIATRIC RADIOLOGY: AN INTERNATIONAL SURVEY OF HEALTHCARE PROFESSIONALS' OPINIONS**
Susan Shelmerdine, Owen Arthurs
Great Ormond Street Hospital for Children, London (UNITED KINGDOM)
- 17:26-17:33 **E-PEER LEARNING: OUR MULTI-INSTITUTION EXPERIENCE.**
Kathleen Schenker ⁽¹⁾, Angie Miller ⁽²⁾, Cicero Silva ⁽³⁾, Douglas Moote ⁽⁴⁾, Shailee Lala ⁽⁵⁾, Sarah Milla ⁽⁶⁾, Jonathan Loewen ⁽⁶⁾, Monica Epelman ⁽⁷⁾
⁽¹⁾ Department of Medical Imaging, Nemours/Alfred I duPont Hospital for Children, Wilmington, DE (USA), ⁽²⁾ Department of Pediatric Radiology, University of Colorado School of Medicine, Children's Hospital of Colorado, Aurora, CO (USA), ⁽³⁾ Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, CT (USA), ⁽⁴⁾ Department of Radiology, Connecticut Children's Medical Center, Hartford, CT (USA), ⁽⁵⁾ Department of Radiology, New York University School of Medicine, New York, NY (USA), ⁽⁶⁾ Division of Pediatric Radiology, Emory University School of Medicine, Children's Healthcare of Atlanta, Atlanta, GA (USA), ⁽⁷⁾ Department of Radiology, Nemours Children's Hospital, Orlando, FL (USA)
- 17:33-17:40 **THE EVOLUTION OF A PEDIATRIC RADIOLOGY ELECTIVE: A SHIFT FROM READING-ROOM BASED INSTRUCTION TO A HYBRID MODEL OF LEARNING**
Melissa Hilmes ⁽¹⁾, Jacob Ramsey ⁽²⁾, Sudha Singh ⁽¹⁾
⁽¹⁾ Vanderbilt University Medical Center, Nashville, Tennessee (UNITED STATES), ⁽²⁾ Vanderbilt School of Medicine, Nashville, Tennessee (UNITED STATES)
- 17:45-18:00 **Hot issues and new frontiers in theranostics in children**
Andrew Trout (Cincinnati, USA)

18:00 **Adjourn**

09:00-17:00 Cases of the Day

Moderators: Neil Johnson (Cincinnati, USA), Aurelio Secinaro (Rome, Italy)

NOT CME ACCREDITATION



Friday, October 15, 2021

6:45-8:30 **Breakfast**

6:30-17:30 **Registration**

7:30-8:20 **SUNRISE SESSION 3-A** **Body imaging**

Moderator

7:30-7:55 **How to optimize MRI for appendicitis**

Shailee V. Lala (New York, USA)

7:55-8:20 **MRI and ultrasound of the pelvic floor in anorectal malformation**

Jeanne (Mei Mei) Chow (Boston, USA)

7:30-8:20 **SUNRISE SESSION 3-B** **MRI**

Moderator

7:30-7:55 **Real-time MRI in children: what does it mean?**

Daniel Gräfe (Leipzig, Germany)

7:55-8:20 **Whole body MRI - technique optimization**

Paul Humphries (London, UK)

7:30-8:20 **SUNRISE SESSION 3-C** **Chest**

Moderator

7:30-7:55 **Lung MRI: current practical techniques and how to optimize it**

Edward Y. Lee (Boston, USA)

7:55-8:20 **Functional MR imaging of the lung**

Jens Vogel-Claussen (Hannover, Germany)

8:30-10:00 **CATEGORICAL COURSE IX-A** **Imaging strategies: the essentials**

Moderators: ESPR & SPR

8:30-8:52 **For the patient: child life and patient preparation**

Murat Oztek (Seattle, WA)

8:52-9:14 **For the patient: the latest in sedation/sedatives techniques**

Andrea Wolfler (Genoa, Italy)

9:14-9:36 **For the patient: CT and MRI techniques: faster is better**

Camillo Jaimes (Boston, USA)

9:36-9:58 **Challenging children: how to prepare (cases, strategies)**

Sobia Mirza (Washington, DC, USA)



Friday, October 15, 2021

8:30-10:00 CATEGORICAL COURSE IX-B Imaging strategies: tips for specialists

Moderators: ESPR & SPR

- 8:30-8:52 **For the radiologist: ergonomics and screen management**
Raymond Wang Sze (Philadelphia, USA)
- 8:52-9:14 **For the radiologist: preventing and managing burnout**
Erin Simon Schwartz (Philadelphia, USA)
- 9:14-9:36 **For the radiologist: AI ready for prime time**
Sanjay Prabhu (Boston, USA)
- 9:36-9:58 **For the radiologist: children centered care: beyond the waiting room**
Ib Erik Jensen (Odense, Denmark)

10:00-10:30 Break

10:30-11:55 SCIENTIFIC SESSION VI-A JUNIOR IPR SESSION How to build an academic career in pediatric radiology

Moderators: ESPR & SPR

- 10:30-10:45 **Tips to do your first research project**
Owen Arthurs (London, UK)
- 10:45-11:00 **Tips to write your first manuscript**
Peter Strouse (Ann Arbor, USA)
- 11:00-11:15 **Fellowships available in Europe**
Julian Jürgens (Hamburg, Germany)
- 11:15-11:30 **Fellowships available in USA**
Laura Fenton (Aurora, USA)
- 11:30-11:45 **Fellowships available in Canada**
Oscar Navarro (Toronto, Canada)
- 11:45-11:55 **ESOR-ESPR exchange program for paediatric radiology fellowships**
Greg Chambers (Leeds, UK)



Friday, October 15, 2021

10:30-11:55 SCIENTIFIC SESSION VI-B

GASTROINTESTINAL

Quantitative imaging of the bowel: peristalsing to the future

Moderators: ESPR & SPR

10:30-10:45 State of the art

Tom Watson (London, UK)

10:45-11:40 SCIENTIFIC PAPERS

10:45-10:53 2D SHEAR WAVE ELASTOGRAPHY IN STRICTURING CROHN'S DISEASE: CORRELATION WITH HISTOLOGY AND CONVENTIONAL US FINDINGS

Nadeen Abu Ata, Jonathan R. Dillman ^(1,2), Jonathan M. Rubin ⁽³⁾,
Laura A. Johnson ⁽⁴⁾, Margaret Collins ^(2,5), Lee A. Denson ^(2,6),
Peter D. Higgins ⁽⁴⁾

⁽¹⁾ Cincinnati Children's Hospital Medical Center - Department of Radiology, Cincinnati (USA), ⁽²⁾ University of Cincinnati - College of Medicine, Cincinnati (USA), ⁽³⁾ University of Michigan - Department of Radiology, Michigan (USA), ⁽⁴⁾ University of Michigan - Division of Gastroenterology and Hepatology, Michigan (USA), ⁽⁵⁾ Cincinnati Children's Hospital Medical Center - Division of Pathology, Cincinnati (USA), ⁽⁶⁾ Cincinnati Children's Hospital Medical Center - Division of Gastroenterology and Hepatology, Cincinnati (USA)

10:53-11:01 EFFECT OF BIOLOGIC THERAPY ON MESENTERIC BLOOD FLOW USING VELOCITY-ENCODED PHASE CONTRAST MRI IN NEWLY DIAGNOSED SMALL BOWEL CROHN'S DISEASE

Nadeen Abu Ata, Jonathan R. Dillman ^(1,2), Jean A. Tkach ^(1,2), Deep B. Ghandi,
Lee A. Denson ^(2,3)

⁽¹⁾ Cincinnati Children's Hospital Medical Center - Department of Radiology, Cincinnati (USA), ⁽²⁾ University of Cincinnati - College of Medicine, Cincinnati (USA), ⁽³⁾ Cincinnati Children's Hospital Medical Center - Division of Gastroenterology, Hepatology and Nutrition, Cincinnati (USA)

11:01-11:09 DISTINGUISHING TERMINAL ILEITIS FROM LYMPHOID NODULAR HYPERPLASIA IN PEDIATRIC CROHN DISEASE - DOES USE OF STANDARDIZED NOMENCLATURE HELP WHEN REPORTING MRE?

Abdullah Alshabanat ⁽¹⁾, Ghufuran Alhashmi ⁽²⁾, Denise Castro ⁽³⁾,
Joseph Yang ⁽³⁾, Catharine Walsh ⁽⁴⁾, Afsaneh Amirabadi ⁽⁵⁾, Oscar Navarro ⁽⁴⁾,
Juan Putra ⁽⁴⁾, Iram Siquiqui ⁽⁴⁾, Mary-Louise Greer ⁽⁴⁾

⁽¹⁾ King Faisal Specialist Hospital and Research Center, Riyadh (SAUDI ARABIA), ⁽²⁾ King AbdulAziz University Hospital, Jeddah (SAUDI ARABIA), ⁽³⁾ Kingston Health Sciences Centre/Queen's University, Kingston (CANADA), ⁽⁴⁾ The Hospital for Sick Children/University of Toronto, Toronto (CANADA), ⁽⁵⁾ The Hospital for Sick Children, Toronto (CANADA)



Friday, October 15, 2021

- 11:09-11:17 **EXPERIENCE WITH PEDIATRIC APPENDICITIS DURING THE COVID-19 PANDEMIC AT A REFERRAL PEDIATRIC HOSPITAL**
Andrew Sher, Paul Guillerman, Victor Seghers, Ananth Annapragada, Marla Sammer
Texas Children's Hospital, Baylor College of Medicine, Houston (USA)
- 11:17-11:25 **RADIOGRAPHIC ASSESSMENT OF TRACTION-INDUCED ESOPHAGEAL GROWTH PATTERNS AND TRACTION-RELATED COMPLICATIONS OF THE FOKER PROCESS FOR THE TREATMENT OF LONG GAP ESOPHAGEAL ATRESIA IN CHILDREN.**
Alexandra Foust ⁽¹⁾, Benjamin Zendejas-Mummert ⁽²⁾, Somala Mohammed ⁽²⁾, Jay Meisner ⁽²⁾, Thomas Hamilton ⁽²⁾, David Zurakowski ⁽³⁾, Steven Staffa ⁽⁴⁾, Russell Jennings ⁽²⁾, Michael Callahan ⁽¹⁾
⁽¹⁾ Boston Children's Hospital: Department of Radiology, Boston (USA), ⁽²⁾ Boston Children's Hospital: Department of Surgery, Boston (USA), ⁽³⁾ Boston Children's Hospital: Department of Orthopedics, Boston (USA), ⁽⁴⁾ Boston Children's Hospital: Department of Anesthesia Research, Boston (USA)
- 11:25-11:33 **ACNES – A COMMONLY OVERLOOKED CAUSE OF CHRONIC ABDOMINAL PAIN IN CHILDREN. PRELIMINARY RESULTS.**
Sven Weum ⁽¹⁾, Thomas Augdal ⁽¹⁾, Niklas Stabell ⁽²⁾, Lene Nymo Trulsen ⁽²⁾, Thorsten Köhler ⁽¹⁾, Karen Rosendahl ⁽¹⁾
⁽¹⁾ University Hospital of North Norway, Dept. of Radiology, Tromsø (NORWAY), ⁽²⁾ University Hospital of North Norway, Dept. of Pediatrics, Tromsø (NORWAY)
- 11:40-11:55 **New directions for understanding bowel physiology**
Ethan Smith (Cincinnati, USA)



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10:30-11:55 SCIENTIFIC SESSION VI-C: MUSCULOSKELETAL - New developments in MSK imaging

Moderators: ESPR & SPR

10:30-10:45 **Fast and accurate: the new challenge in pediatric MSK imaging**
Karen Rosendahl (Tromsø, Norway)

10:45-11:40 SCIENTIFIC PAPERS

10:45-10:53 **RATE AND SEVERITY OF PHYSICAL ABUSE IN HOSPITALISED CHILDREN DURING THE FIRST UK WIDE COVID-19 ENFORCED NATIONAL LOCKDOWN**
Michael Paddock, Amaka C Offiah ^(2,3), Helen Cliffe ⁽⁷⁾, Daniel JA Connolly ⁽³⁾, Robert Dineen ⁽⁸⁾, Rachel Dixon ⁽⁹⁾, Harriet Edwards ⁽¹⁰⁾, Emily Evans ⁽¹¹⁾, Kath Halliday ⁽⁸⁾, Kandise Jackson ⁽¹²⁾, Caren Landes ⁽¹⁰⁾, Adam Oates ⁽¹¹⁾, Neil Stoodley ⁽¹³⁾, Stavros Stivaros ^(4,5,6)
⁽¹⁾ Barnsley Hospital NHS Foundation Trust, Barnsley (UNITED KINGDOM),
⁽²⁾ Academic Unit of Child Health, University of Sheffield, Sheffield (UNITED KINGDOM), ⁽³⁾ Sheffield Childrens NHS Foundation Trust, Sheffield (UNITED KINGDOM), ⁽⁴⁾ Academic Unit of Paediatric Radiology, Royal Manchester Children's Hospital, Manchester (UNITED KINGDOM), ⁽⁵⁾ Division of Informatics, Imaging, and Data Sciences, School of Health Sciences, Faculty of Biology, Medicine, and Health, Manchester (UNITED KINGDOM), ⁽⁶⁾ The Geoffrey Jefferson Brain Research Centre, University of Manchester, Manchester Academic Health Science Centre, Manchester (UNITED KINGDOM), ⁽⁷⁾ Leeds Teaching Hospitals NHS Trust, Leeds (UNITED KINGDOM), ⁽⁸⁾ Nottingham University NHS Foundation Trust, Nottingham (UNITED KINGDOM), ⁽⁹⁾ Manchester University NHS Foundation Trust, Manchester (UNITED KINGDOM), ⁽¹⁰⁾ Alder Hey Childrens NHS Foundation Trust, Liverpool (UNITED KINGDOM), ⁽¹¹⁾ Birmingham Womens and Childrens NHS Foundation Trust, Birmingham (UNITED KINGDOM), ⁽¹²⁾ Pennine Acute Hospitals NHS Trust, Oldham (UNITED KINGDOM), ⁽¹³⁾ North Bristol NHS Trust, Bristol (UNITED KINGDOM)

10:53-11:01 **THE IMPACT OF COVID-19 ON NON-ACCIDENTAL INJURY IN AN IRISH TERTIARY REFERRAL CENTRE**

Caoimhe McDonnell ⁽¹⁾, Angela Byrne ⁽²⁾

⁽¹⁾ St James Hospital, Department of Diagnostic Imaging, Dublin (IRELAND),
⁽²⁾ Children's Health Ireland at Crumlin, Department of Radiology, Dublin (IRELAND)



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- 11:01-11:09 **FATAL NON-ACCIDENTAL INJURY IN SOUTH AFRICA: A GAUTENG HOSPITAL'S PERSPECTIVE ON THE INCIDENCE AND FRACTURE TYPES ON POST-MORTEM SKELETAL SURVEYS**
 Robyn Meryl Wessels ⁽²⁾, Halvani Moodley ^(1,2)
⁽¹⁾ Charlotte Maxeke Johannesburg Academic Hospital, Johannesburg (SOUTH AFRICA), ⁽²⁾ University of the Witwatersrand, Johannesburg (SOUTH AFRICA)
- 11:09-11:17 **SKELETAL SURVEY IN SUSPECTED CHILD ABUSE – THE GERMAN WAY**
 Mark Born
University of Bonn, Department of Radiology, Bonn (GERMANY)
- 11:17-11:25 **VALIDATION OF DIFFUSION TENSOR IMAGING OF THE PHYSIS AND METAPHYSIS AS PREDICTOR OF CHILD GROWTH**
 Diego Jaramillo ⁽¹⁾, Phuong Dong ⁽¹⁾, Jie Chen Nguyen ⁽²⁾,
 Sogol Mostoufi-Moab ⁽²⁾, Michael Nguyen ⁽²⁾, Andrew Moreau ⁽²⁾,
 Christian Barrera ⁽³⁾, Shijie Hong ⁽²⁾, Jose Raya ⁽⁴⁾
⁽¹⁾ Columbia University Medical Center, New York (USA), ⁽²⁾ Children's Hospital of Philadelphia, Philadelphia (USA), ⁽³⁾ Massachusetts General Hospital, Boston (USA), ⁽⁴⁾ New York University Medical Center, New York (USA)
- 11:25-11:33 **MR IMAGING OF PRIMARY LYMPHOMA OF BONE IN CHILDREN AND YOUNG ADULTS**
 Patrick Duffy ⁽¹⁾, Kirsten Ecklund ⁽²⁾
⁽¹⁾ Boston Children's Hospital, Boston (USA), ⁽²⁾ Boston Children's Hospital, Boston (USA)
- 11:40-11:55 **The future of qualitative and quantitative musculoskeletal imaging in children**
 Maria Beatrice Damasio (Italy)



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10:30-11:55 SCIENTIFIC SESSION VI-D: FETAL IMAGING - New steps in imaging the fetus

Moderators: ESPR & SPR

10:30-10:45 What have we done so far to image the fetus?

Catherine Garel (Paris, France)

10:45-11:40 SCIENTIFIC PAPERS

10:45-10:53 CHARACTERIZATION OF RETROPLACENTAL CLEAR SPACE IN A MURINE MODEL OF PLACENTA ACCRETA SPECTRUM (PAS) USING CONTRAST-ENHANCED MRI

Andrew Badachhape ⁽¹⁾, Laxman Devkota ⁽²⁾, Prajwal Bhandari ⁽¹⁾, Mayank Srivastava ⁽³⁾, Poonam Sarkar ⁽²⁾, Verghese George ⁽¹⁾, Eric Tanifum ⁽³⁾, Karin Fox ⁽⁴⁾, Ketan Ghaghada ⁽³⁾, Chandrasekhar Yallampalli ⁽⁴⁾, Ananth Annapragada ⁽³⁾

⁽¹⁾ Baylor College of Medicine - Department of Radiology, Houston (USA), ⁽²⁾ Baylor College of Medicine - Department of Pediatrics-Oncology, Houston (USA), ⁽³⁾ Texas Children's Hospital - The Singleton Department of Pediatric Radiology, Houston (USA), ⁽⁴⁾ Texas Children's Hospital - Department of Obstetrics and Gynecology, Houston (USA)

10:53-11:01 PLACENTAL SURFACE HETEROGENEITY IN FETAL GROWTH RESTRICTION USING DIFFUSION WEIGHTED IMAGING: A FETAL MRI PILOT STUDY

Meyers Mariana, David Mirsky (1,2,3), Camille Driver ^(1,4), John Hobbins ^(1,4), Erin Englund ^(1,2,3)

⁽¹⁾ Children's Hospital Colorado, Aurora (USA), ⁽²⁾ University of Colorado School of Medicine, Aurora (USA), ⁽³⁾ Department of Radiology, Aurora (USA), ⁽⁴⁾ Department of Obstetrics and Gynecology, Aurora (USA)

11:01-11:09 PLACENTAL VOLUME IN PREGNANT WOMEN WITH OPIOID USE: PRENATAL MRI ASSESSMENT

Rachel Wise ⁽¹⁾, Brandon Brown ⁽¹⁾, David Haas ⁽²⁾, Christina Sparks ⁽³⁾, Senthilkumar Sadhasivam ⁽³⁾, Rupa Radhakrishnan ⁽¹⁾

⁽¹⁾ Indiana University School of Medicine Department of Radiology & Imaging Sciences, Indianapolis (USA), ⁽²⁾ Indiana University School of Medicine Department of Obstetrics & Gynecology, Indianapolis (USA), ⁽³⁾ Indiana University School of Medicine Department of Anesthesia, Indianapolis (USA)



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- 11:09-11:17 **OUR INITIAL EXPERIENCE WITH A DEEP LEARNING RECONSTRUCTION ALGORITHM IN FETAL MRI**
Jane Lyon ⁽¹⁾, Kara Gill ⁽¹⁾, Susan Rebsamen ⁽¹⁾, R. Marc Lebel ⁽²⁾, Ty A. Cashen ⁽³⁾
⁽¹⁾ University of Wisconsin School of Medicine and Public Health, Department of Radiology, Madison, WI (UNITED STATES), ⁽²⁾ GE Healthcare, MR Applications and Workflow, Calgary (CANADA), ⁽³⁾ GE Healthcare, Magnetic Resonance, Madison, WI (UNITED STATES)
- 11:17-11:25 **VIRTUAL AUTOPSY OF THE BRAIN USING POST-MORTEM MRI: IS IT HELPFUL?**
Neetika Gupta, Claudia Martinez-Rios, Elka Miller, Dina El Demellawy, Nick Barrowman
CHEO, University of Ottawa, Ottawa (CANADA)
- 11:25-11:33 **OPTIMISATION OF HUMAN POST-MORTEM MICRO-CT SERVICE - IODINATION AND IMAGE QUALITY PREDICTORS**
Ian Simcock, Susan Shelmerdine, Dean Langan, Neil Sebire, Owen Arthurs
Great Ormond Street Hospital for Children and UCL/Institute of Child Health Biomedical Research Centre, London (UNITED KINGDOM)
- 11:40-11:55 **The future in imaging the conceptus: new coils, sequences, and all the new bells and whistles**
Lawrence Wald (Boston, USA)

12:00-13:00 **ESPR General Assembly**

12:00-13:00 **SPR Business Meeting**

13:00-14:00 **Lunch**



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14:10-15:30 SCIENTIFIC SESSION VII-A: INTERVENTIONAL RADIOLOGY - Pediatric endovascular therapy

Moderators: ESPR & SPR

14:10-14:25 Endovascular interventions in Children

Jim Donaldson (Chicago, USA)

14:25-15:15 SCIENTIFIC PAPERS

14:25-14:32 MINIMALLY INVASIVE INTERVENTIONS UNDER ULTRASOUND NAVIGATION FOR ABDOMINAL ABSCESES TREATMENT IN CHILDREN

Akif Yusufov, Alexey Plyukhin

Tver State Medical University, Tver (RUSSIAN FEDERATION)

14:32-14:39 IMAGING FEATURES OF SURGICAL AND PERCUTANEOUS CHOLECYSTOCHOLANGIOGRAPHY FOR SUSPECTED BILIARY ATRESIA

Abhay Srinivasan ⁽¹⁾, Naif Alsaikhan ⁽¹⁾, Michael Acord ⁽¹⁾, Ganesh Krishnamurthy ⁽¹⁾, Fernando Escobar ⁽¹⁾, Seth Vatsky ⁽¹⁾, Marian Gaballah ⁽¹⁾, Fikadu Worede ⁽¹⁾, Richard Bellah ⁽¹⁾, Elizabeth Rand ⁽²⁾, Anne Marie Cahill ⁽¹⁾

⁽¹⁾ The Children's Hospital of Philadelphia - Department of Radiology, Philadelphia (USA), ⁽²⁾ The Children's Hospital of Philadelphia - Dept. of Gastroenterology, Hepatology, and Nutrition, Philadelphia (USA)

14:39-14:46 PERCUTANEOUS MANAGEMENT OF BENIGN BILIARY STRICTURES AFTER LIVER TRANSPLANTATION IN PEDIATRIC PATIENTS: A SINGLE-CENTER EXPERIENCE

Ludovico Dulcetta ⁽¹⁾, Paolo Marra ⁽²⁾, Francesco Saveri Carbone ⁽¹⁾, Claudio Sallemi ⁽²⁾, Pietro Andrea Bonaffini ^(1,2), Sandro Sironi ^(1,2)

⁽¹⁾ University of Milano-Bicocca, Monza (MB) (ITALY), ⁽²⁾ ASST Papa Giovanni XXIII Bergamo Hospital - Department of Radiology, Bergamo (BG) (ITALY)

14:46-14:53 DIFFICULT CENTRAL VENOUS PORT REMOVAL IN CHILDREN; ANALYSIS OF RISK FACTORS.

Fikadu Worede Worede, Alireza Zandifar, Michael Acord, Srinivasan Abhay, Seth Vatsky, Fernando Escobar, Ganesh Krishnamurthy, Anne Marie Cahill
Children's Hospital of Philadelphia, Philadelphia (USA)

14:53-15:00 AN EMPIRICAL MODEL FOR COMPARING RADIATION DOSE IN PEDIATRIC PATIENTS UNDERGOING INTERVENTIONAL RADIOLOGY PROCEDURES UNDER C-ARM CONE BEAM CT VERSUS CONVENTIONAL CT

Samuel Brady ^(1,2), Nicole Hilvert, John Racadio ^(1,2)

⁽¹⁾ Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio (USA), ⁽²⁾ University of Cincinnati College of Medicine, Cincinnati, Ohio (USA)



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15:00-15:07 **THE PEDIATRIC INTERVENTIONAL RADIOLOGY EXPERIENCE: PERSPECTIVE OF PATIENT FAMILIES**
Tigist Hailu, Abigail Ginader, Nicole Bodo, Alyssa Sze, William Corder, Lynn Thompson, Fernando Escobar, Dorene Balmer, Raymond Sze
Children's Hospital of Philadelphia, Philadelphia, PA (UNITED STATES)

15:15-15:30 **New ideas for vascular repair: where are we going to?**
Timo Krings (Toronto, Canada)

**14:10-15:30 SCIENTIFIC SESSION VII-B:
GASTROINTESTINAL - It is not just about the heart:
GI pathology in children with congenital cardiovascular disease**

Moderators: ESPR & SPR

14:10-14:25 **State of the art**
Charlotte De Lange (Oslo, Norway)

14:25-15:15 SCIENTIFIC PAPERS

14:25-14:32 **ASSESSMENT OF HEPATIC ARTERY ANATOMY IN PEDIATRIC LIVER TRANSPLANT RECIPIENTS: MR ANGIOGRAPHY VERSUS CT ANGIOGRAPHY.**
Martijn Verhagen ⁽¹⁾, Riksta Dijkers ⁽¹⁾, Ruben de Kleine ⁽²⁾, Thomas Kwee ⁽¹⁾, Hubert van der Doef ⁽³⁾, Robbert de Haas ⁽¹⁾
⁽¹⁾ *UMCG, department of radiology, Groningen (THE NETHERLANDS)*, ⁽²⁾ *UMCG, department of hepatobiliary surgery, Groningen (THE NETHERLANDS)*, ⁽³⁾ *UMCG, department of pediatric gastroenterology, Groningen (THE NETHERLANDS)*

14:32-14:39 **ABDOMINAL ULTRASOUND FINDINGS IN PAEDIATRIC INFLAMMATORY MULTISYSTEM SYNDROME TEMPORALLY ASSOCIATED WITH COVID-19 (PIMS-TS).**
Saigeet Eleti, Myriam Guessoum, Riwa Meshaka, Fern Whittam, Tom Watson
Department of Paediatric Radiology - Great Ormond Street Hospital, London (UNITED KINGDOM)

14:39-14:46 **SPECTRUM OF IMAGING FINDINGS IN PAEDIATRIC MULTISYSTEM INFLAMMATORY SYNDROME – TEMPORALLY ASSOCIATED WITH SARS-COV-2 (PIMS-TS)**
Shema Hameed ⁽¹⁾, Heba Elbaaly ⁽¹⁾, Catriona Reid ⁽¹⁾, Rui Santos ⁽¹⁾, Vinay Shivamurthy ⁽²⁾, James Wong ⁽³⁾, Haran Jogeessvaran ⁽¹⁾
⁽¹⁾ *Department of children's imaging, Evelina London children's hospital, London (UNITED KINGDOM)*, ⁽²⁾ *Department of paediatric rheumatology, Evelina London children's hospital, London (UNITED KINGDOM)*, ⁽³⁾ *Department of paediatric cardiology, Evelina London children's hospital, London (UNITED KINGDOM)*



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- 14:46-14:53 **SPONTANEOUS EVOLUTION PATTERNS OF FOCAL CONGENITAL HEPATIC HEMANGIOMAS: A CASE SERIES OF 25 PATIENTS**
Caroline Rutten ⁽¹⁾, Delphine Ladarre ⁽²⁾, Stéphanie Franchi-Abella ⁽¹⁾
⁽¹⁾ Department of Pediatric Radiology, Hôpital Bicêtre, Kremlin-Bicêtre (FRANCE), ⁽²⁾ Department of Pediatric Hepatology, Hôpital Bicêtre, Kremlin-Bicêtre (FRANCE)
- 14:53-15:00 **IMAGE QUALITY ASSESSMENT OF PEDIATRIC CHEST AND ABDOMEN CT BY DEEP LEARNING AND ITERATIVE IMAGING RECONSTRUCTION**
Haesung Yoon, Hyun Ji Lim, Jisoo Kim, Mi-Jung Lee
Severance Hospital. Department of Radiology, Seoul (SOUTH KOREA)
- 15:00-15:07 **SHEAR WAVE ELASTOGRAPHY EVALUATION OF LIVER, PANCREAS, SPLEEN, AND KIDNEYS IN PATIENTS WITH FMF AND AMYLOIDOSIS**
Zuhal Bayramoglu ⁽¹⁾, Zeynep Nur Akyol Sari ⁽¹⁾, Oya Koker ⁽²⁾, Ibrahim Adaletli ⁽¹⁾, Rukiye Eker Omeroglu ⁽²⁾
⁽¹⁾ Istanbul University, Istanbul Medical Faculty, Pediatric Radiology Department, Istanbul (TURKEY), ⁽²⁾ Istanbul University, Istanbul Medical Faculty, Pediatric Rheumatology Department, Istanbul (TURKEY)
- 15:15-15:30 **The fontan liver: what do all those nodules mean?**
Geetika Khanna (St. Louis, USA)

14:10-15:30 SCIENTIFIC SESSION VII-C: MUSCULOSKELETAL IMAGING Emerging quantitative MR imaging biomarkers in inflammatory arthritis

Moderators: ESPR & SPR

- 14:10-14:25 **Quantitative imaging of juvenile inflammatory arthritis: where we stand**
Nancy Chauvin (Philadelphia, USA)

14:25-15:15 SCIENTIFIC PAPERS

- 14:25-14:32 **MRI FINDINGS OF PROLIFERATIVE AND INFLAMMATORY SYNOVITIS IN THE KNEE IN CHILDREN: ARE THERE QUALITATIVE AND SEMI-QUANTITATIVE DIFFERENCES?**
Jie C Nguyen ^(1,2), Alyssa Sze, Andressa Guariento Alves, Michael K Nguyen, Alexandre Arkader ^(1,2), David M. Biko ^(1,2)
⁽¹⁾ Department of Radiology, Childrens Hospital of Philadelphia, Philadelphia (USA), ⁽²⁾ University of Pennsylvania School of Medicine, Philadelphia, Philadelphia (USA), ⁽³⁾ Division of Orthopedic Surgery, Childrens Hospital of Philadelphia, Philadelphia (USA)



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- 14:32-14:39 **A SEMIQUANTITATIVE COLOR DOPPLER ULTRASOUND SCORING SYSTEM FOR EVALUATION OF SYNOVITIS IN JOINTS OF PATIENTS WITH BLOOD-INDUCED ARTHROPATHY**
 Ningning Zhang ⁽¹⁾, Sheng Yang ⁽²⁾, Anne-Fleur Zwagemaker ⁽³⁾, Aihua Huo ⁽¹⁾, Ying-Jia Li ⁽⁴⁾, Fang Zhou ⁽⁴⁾, Pamela Hilliard ⁽⁵⁾, Sandra Squire ⁽⁶⁾, Vanessa Bouskill ⁽⁷⁾, Arun Mohanta ⁽⁸⁾, Alex Zhou ⁽⁸⁾, Jose Jarrin ⁽⁸⁾, Runhui Wu ⁽⁹⁾, Jing Sun ⁽¹⁰⁾, Brian Luke ⁽¹¹⁾, Rahim Moineddin ⁽¹²⁾, Carina Man ⁽⁸⁾, Victor Blanchette ⁽⁷⁾, Yun Peng ⁽¹⁾, Andrea Doria ⁽⁸⁾
⁽¹⁾ Beijing Childrens Hospital - Department of Radiology, Toronto (CHINA),
⁽²⁾ Chengdu Women's and Childrens Central Hospital - Department of Ultrasound, Sichuan (CHINA), ⁽³⁾ Amsterdam UMC - Department of Pediatric Hematology, Amsterdam (NETHERLANDS), ⁽⁴⁾ Nanfang Hospital - Department of Radiology, Guangzhou (CHINA), ⁽⁵⁾ The Hospital for Sick Children - Rehabilitation Service, Toronto (CANADA), ⁽⁶⁾ St Paul Hospital, Providence Health Care -Service of Physiotherapy, Vancouver (CANADA), ⁽⁷⁾ The Hospital for Sick Children - Hematology/Oncology, Toronto (CANADA), ⁽⁸⁾ The Hospital for Sick Children - Diagnostic Imaging, Toronto (CANADA), ⁽⁹⁾ Beijing Childrens Hospital - Hematology/Oncology Center, Beijing (CHINA), ⁽¹⁰⁾ Nanfang Hospital - Department of Hematology, Guangzhou (CHINA), ⁽¹¹⁾ Childrens Hospital of Eastern Ontario -Division of Haematology & Transfusion Medicine, Ottawa (CANADA), ⁽¹²⁾ University of Toronto-Division of Family & Community Medicine, Toronto (CANADA)
- 14:39-14:46 **INTRA ARTICULAR INJECTIONS WITH PLATELET RICH PLASMA IN PATIENTS WITH JUVENILE OSTEOCHONDRITIS DISSECANS OF THE KNEE: DOES IT HELP? A CLINICAL AND MR STUDY.**
 Michael Fadell ^(1,2), David Howell ^(3,4), Jill Stein ^(3,4), Matthew Monson ^(3,4), Kari Hayes ^(3,4), Katherine Dahab ^(3,4)
⁽¹⁾ Lucille Packard Children's Hospital, Palo alto (USA), ⁽²⁾ Stanford University, Palo Alto (USA), ⁽³⁾ Children's Hospital Colorado, Aurora (USA), ⁽⁴⁾ University of Colorado, Aurora (USA)
- 14:46-14:53 **NORMAL SONOGRAPHIC APPEARANCE AND PITFALLS IN PEDIATRIC FINGER JOINTS**
 Jesse Sandberg, Max Zalcmán, Sarah Harris, Erika Rubesova
 Lucile Packard Children's Hospital, Department of Pediatric Radiology, Stanford University, Stanford (USA)



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- 14:53-15:00 **A CROSS SECTIONAL MAGNETIC RESONANCE IMAGING STUDY OF FACTORS INFLUENCING GROWTH PLATE CLOSURE IN ADOLESCENTS AND YOUNG ADULTS**
Ola Kvist ⁽¹⁾, Ana Luiza Dallora ⁽²⁾, Ola Nilsson ^(1,3), Peter Anderberg ^(2,4), Johan Sanmartin Berglund ⁽²⁾, Carl-Johan Flodmark ⁽⁵⁾, Sandra Diaz ^(1,6)
⁽¹⁾ Karolinska Institute, Department of Womens and Childrens Health, Stockholm (SWEDEN), ⁽²⁾ Blekinge Institute of Technology, Department of Healt, Karlskrona (SWEDEN), ⁽³⁾ Örebro University, School of Mecial Science, Örebro (SWEDEN), ⁽⁴⁾ Skövde University, Department of Health, Skövde (SWEDEN), ⁽⁵⁾ Lunds University, Department of Clinical Science, Lund (SWEDEN), ⁽⁶⁾ Lunds University, Department of Radiology, Lund (SWEDEN)
- 15:00-15:07 **DISRUPTION OF THE ZONE OF PROVISIONAL CALCIFICATION: AN MRI INDICATOR OF PHYSEAL STRESS INJURY OF THE PEDIATRIC KNEE**
Maria Alejandra Bedoya ⁽¹⁾, Dlego Jaramillo ⁽²⁾, Tal Laor ⁽¹⁾
⁽¹⁾ Boston Childrens Hospital, Harvard Medical School, Boston (UNITED STATES), ⁽²⁾ Morgan Stanley Childrens Hospital, Columbia University, New York (UNITED STATES)
- 15:15-15:30 **MRI imaging of biomarkers: the future of diagnosis and targeted treatment in JIA**
Ola Kvist (Stockholm, Sweden)
- 14:10-15:30 SCIENTIFIC SESSION VII-D:
FETAL IMAGING - From fetal to postnatal, pushing the edge of lethality: diagnosis we know, diagnosis we don't**
Moderators: ESPR & SPR
- 14:10-14:25 **Tricks and troubleshooting to reach the correct diagnosis**
Andrea Righini (Milan, Italy)
- 14:25-15:15 SCIENTIFIC PAPERS**
- 14:25-14:32 **TWO-YEAR NEURODEVELOPMENTAL OUTCOMES OF HEALTHY FETUSES SCANNED AT 3 TESLA**
Fedel Machado Rivas ⁽¹⁾, Anjali Sadhwani ⁽²⁾, Julia Rohde ⁽³⁾, Caitlin K. Rollins ⁽⁴⁾, Camilo Jaimes ⁽¹⁾
⁽¹⁾ Boston Children's Hospital - Department of Radiology, Boston (UNITED STATES), ⁽²⁾ Boston Children's Hospital - Department of Psychiatry, Boston (UNITED STATES), ⁽³⁾ Boston Children's Hospital - Department of Developmental Medicine, Boston (UNITED STATES), ⁽⁴⁾ Boston Children's Hospital - Department of Neurology, Boston (UNITED STATES)



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- 14:32-14:39 **DIFFERENT PATTERNS OF VENTRICULAR DELINEATION IN SPINAL DYSRAPHISM BEFORE AND AFTER SURGERY.**
 Frederic Guffens ⁽¹⁾, M. Ebner ^(2,3), L. Fidon ⁽²⁾, J. Deprest ^(4,5), P. Demaerel ⁽¹⁾, T. Vercauteren ^(2,3), L. De Catte ⁽⁵⁾, S. Dymarkowski ⁽¹⁾, M. Aertsen ⁽¹⁾
⁽¹⁾ Department of Radiology, University Hospitals Leuven, Herestraat 49, 3000 Leuven, Belgium, Leuven (BELGIUM), ⁽²⁾ School of Biomedical Engineering & Imaging Sciences (BMEIS), Kings College London, UK, London (UNITED KINGDOM), ⁽³⁾ Medical Physics and Biomedical Engineering, University College London, UK, London (UNITED KINGDOM), ⁽⁴⁾ Elizabeth Garrett Anderson Institute for Womens Health, University College London, UK, London (UNITED KINGDOM), ⁽⁵⁾ Department of Obstetrics and Gynaecology, University Hospitals and cluster Women and Child, Dept. Development and Rege, Leuven (BELGIUM)
- 14:39-14:46 **CHANGES IN HINDBRAIN HERNIATION ON FETAL MRI PRIOR TO AND FOLLOWING PRENATAL REPAIR OF OPEN SPINAL DYSRAPHISM**
 Saad Ranginwala, Robin Bowman, Federico Scorletti, Aimen Shaaban Ann and Robert H. Lurie's Children's Hospital of Chicago, Chicago (USA)
- 14:46-14:53 **EVALUATION OF POSTERIOR FOSSA BIOMETRIC MEASUREMENTS ON FETAL MRI IN THE EVALUATION OF "DANDY-WALKER CONTINUUM"**
 Usha Nagaraj, Beth Kline-Fath, Paul Horn, Charu Venkatesan
⁽¹⁾ Cincinnati Children's Hospital Medical Center, Cincinnati (USA),
⁽²⁾ University of Cincinnati College of Medicine, Cincinnati (USA)
- 14:53-15:00 **SUPER RESOLUTION MR IMAGE RECONSTRUCTION IMPROVES IMAGE QUALITY AND DIAGNOSTIC CONFIDENCE IN FETUSES WITH BRAIN MALFORMATION**
 Dianna Bardo, Nicholas Rubert, Patricia Cornejo, Jennifer Vaughn, Luis Goncalves
 Phoenix Children's Hospital, Phoenix (USA)
- 15:00-15:07 **WHAT IMAGING FEATURES DIFFERENTIATE LETHAL FROM NON-LETHAL PERINATALLY DIAGNOSED OSTEOGENESIS IMPERFECTA? A SYSTEMATIC REVIEW WITH NARRATIVE SYNTHESIS**
 Mohamed Hassan Mahmoud ⁽¹⁾, Mohamed Hassan Mahmoud ⁽⁵⁾, Ciara McDonnell ⁽²⁾, Ciara McDonnell ⁽³⁾, Amaka C. Offiah ⁽⁴⁾, Amaka C. Offiah ⁽⁵⁾
⁽¹⁾ Radiology Department, Ismailia (EGYPT), ⁽²⁾ Childrens Health Ireland, Temple St & Tallaght, Dublin (IRELAND), ⁽³⁾ Trinity Research in Childhood Centre (TRICC), Paediatrics, Trinity College, The University of Dublin, Dublin (IRELAND), ⁽⁴⁾ Department of Oncology & Metabolism, University of Sheffield, Sheffield (UNITED KINGDOM), ⁽⁵⁾ Department of Radiology, Sheffield Children's NHS Foundation Trust, Sheffield (UNITED KINGDOM)
- 15:15-15:30 **What can we now diagnose that we didn't know before?**
 Teresa Victoria (Philadelphia, USA)



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15:30-16:00 *Break*

16:00-17:20 **SCIENTIFIC SESSION VIII-A: INTERVENTIONAL RADIOLOGY** **Interventional oncology for local delivery of therapies**

Moderators: ESPR & SPR

16:00-16:15 **Pediatric oncology and IR**
Avnesh Thakor (Stanford, USA)

16:15-17:05 **SCIENTIFIC PAPERS**

16:15-16:23 **A COLLABORATIVE HYBRID OPERATING ROOM APPROACH TO PULMONARY NODULE LOCALIZATION AND RESECTION AS A TOOL FOR QUALITY IMPROVEMENT IN PEDIATRIC INTERVENTIONAL RADIOLOGY AND SURGERY**
John Racadio, Alejandra Casar Berazaluze, Nicole Hilvert, Daniel von Allmen
Cincinnati Children's Hospital Medical Center, Departments of Radiology and Surgery, Cincinnati, OH (UNITED STATES)

16:23-16:31 **LYMPHATIC INTERVENTION FOR HEPATOPULMONARY CONNECTIONS IN CHILDREN WITH PLASTIC BRONCHITIS AND CHYLOTHORAX: INITIAL EXPERIENCE**
Fernando Escobar ⁽¹⁾, Catherine Tomasulo ⁽²⁾, Abhay Srinivasan ⁽¹⁾, Ganesh Krishnamurthy ⁽¹⁾, Yoav Dori ⁽²⁾, Christopher Smith ⁽²⁾
⁽¹⁾ Children's Hospital of Philadelphia, Department of Radiology, Philadelphia (UNITED STATES), ⁽²⁾ Children's Hospital of Philadelphia, Division of Cardiology, Philadelphia (UNITED STATES)

16:31-16:39 **SCLEROTHERAPY IN THE TREATMENT OF COMMON LYMPHATIC MALFORMATIONS "MYTH OR REALITY": A 23 YEARS SINGLE CENTER EXPERIENCE.**
Heba Elbaaly Elbaaly ⁽¹⁾, Josée Dubois ⁽¹⁾, Niina Kleiber ⁽²⁾, Louise Caouette-Laberge ⁽³⁾, Jean-Nicolas Racicot ⁽¹⁾, Françoise Rypens ⁽¹⁾, Julie Powell ⁽⁴⁾
⁽¹⁾ Medical Imaging Department, CHU Sainte-Justine, Montréal (CANADA), ⁽²⁾ Pediatrics, CHU Sainte-Justine, Montréal (CANADA), ⁽³⁾ Surgery Department, CHU Sainte-Justine, Montréal (CANADA), ⁽⁴⁾ Dermatology Department, CHU Sainte-Justine, Montréal (CANADA)



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- 16:39-16:47 **MESENTERICO-ILIAC CONGENITAL SHUNT A PARTICULAR FORM OF CONGENITAL PORTO-SYSTEMIC SHUNT: FROM PRENATAL DIAGNOSIS TO POST-NATAL MANAGEMENT**
Solène Le Cam ⁽¹⁾, Romain Pommier ⁽¹⁾, Olivier Meyrignac ⁽²⁾, Catherine Garel ⁽³⁾, Catherine Adamsbaum ⁽¹⁾, Stéphanie Franchi Abella ⁽¹⁾
⁽¹⁾ Pediatric radiology department, Bicetre Hospital APHP - Kremlin Bicetre - FRANCE, Kremlin Bicetre (FRANCE), ⁽²⁾ Adult radiology department, Bicetre Hospital APHP - Kremlin Bicetre - FRANCE, Kremlin Bicetre (FRANCE), ⁽³⁾ Pediatric radiology department, Armand-Trousseau Hospital APHP - Paris - FRANCE, Paris (FRANCE)
- 16:47-16:55 **MINIMALLY-INVASIVE, IMAGE-GUIDED TREATMENT OF FIBROADIPOSE VASCULAR ANOMALIES (FAVA): A SINGLE CENTER EXPERIENCE**
Vaz Zavaletta ⁽¹⁾, C. Matt Hawkins ⁽¹⁾, Rachel Swerdlin ⁽²⁾, Anne Gill ⁽¹⁾
⁽¹⁾ Children's Healthcare of Atlanta, Department of Radiology, Atlanta (USA), ⁽²⁾ Children's Healthcare of Atlanta, Vascular Anomalies Clinic, Atlanta (USA)
- 16:55-17:03 **THE ROLE OF CT IN DIAGNOSIS AND PERCUTANEOUS TREATMENT PLANNING OF POST-PNEUMONIC PNEUMATOCELES IN INFANTS.**
Elisa Mercanzin ⁽¹⁾, Pietro Andrea Bonaffini ^(1,2), Antonino Barletta ⁽²⁾, Francesco Stanco ^(1,2), Paolo Marra ⁽²⁾, Sandro Sironi ^(1,2)
⁽¹⁾ Milano-Bicocca University, Milan (ITALY), ⁽²⁾ Papa Giovanni XXIII Hospital, Bergamo (ITALY)
- 17:05-17:20 **Minimally invasive cancer therapies of the future**
Fernando Gómez Muñoz (Barcelona, Spain)

16:00-17:20 SCIENTIFIC SESSION VIII-B: CONTRAST MATERIALS - Bubbles in radiology: CEUS

Moderators: ESPR & SPR

- 16:00-16:15 **Current applications and limitations of CEUS in pediatric radiology**
Damjana Ključevšek (Ljubljana, Slovenia)

16:15-17:05 SCIENTIFIC PAPERS

- 16:15-16:23 **EFFECT OF GADOLINIUM-BASED CONTRAST MEDIA ON THE DIAGNOSTIC PERFORMANCE OF MRI FOR SUSPECTED ACUTE APPENDICITIS**
Michael Callahan, Kumar Shashi, Laura Cadogan, Kellyn Mahan, Sarah Bixby
Boston Childrens Hospital, Boston (UNITED STATES)
- 16:23-16:31 **THE IMPACT OF CONTRAST ENHANCED ULTRASOUND (CEUS) ASSESSMENT ON THE MANAGEMENT OF ABDOMINAL SOLID ORGAN INJURIES IN CHILDREN.**
Terry Humphrey, Helen Woodley
Leeds Childrens Hospital -Department of Radiology, Leeds (UNITED KINGDOM)



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- 16:31-16:39 **CONTRAST-ENHANCED ULTRASOUND OF THE CHEST IN CHILDREN: ASSESSMENT OF ADDED DIAGNOSTIC VALUE**
Halley Park ⁽¹⁾, Edward Y. Lee ⁽¹⁾, Kumar Shashi ⁽¹⁾, Wendy G. Kim ⁽¹⁾, Abbey J. Winant ⁽¹⁾, Gail MacCallum ⁽¹⁾, Domen Plut ⁽²⁾, Harriet J. Paltiel ⁽¹⁾
⁽¹⁾ Boston Children's Hospital, Boston (USA), ⁽²⁾ Clinical Institute of Radiology, University Medical Centre Ljubljana, Ljubljana (SLOVENIA)
- 16:39-16:47 **EFFECT OF HYPERBILIRUBINEMIA ON THE EXCRETION OF HEPATOCYTE SPECIFIC CONTRAST IN CHILDREN UNDERGOING MAGNETIC RESONANCE CHOLANGIOGRAPHY**
Michael Acord, Anilawan Smithimedhin, Rama Ayyala ⁽³⁾, Janet Reid ^(1,2), Sudha Anupindi ^(1,2)
⁽¹⁾ Children's Hospital of Philadelphia, Philadelphia (USA), ⁽²⁾ University of Pennsylvania, Philadelphia (USA), ⁽³⁾ Cincinnati Children's Hospital, Cincinnati (USA)
- 16:47-16:55 **THE CLINICAL USEFULNESS OF INTRAVENOUS CONTRAST-ENHANCED ULTRASONOGRAPHY IN CHILDREN: A SINGLE CENTRE EXPERIENCE**
Martin Thaler, Mojca Glusic, Damjana Kljucevsek
University Childrens Hospital Ljubljana, Ljubljana (SLOVENIA)
- 16:55-17:03 **INITIAL EXPERIENCE WITH CONTRAST-ENHANCED ULTRASOUND AS AN ADJUNCT TO CT FOR BLUNT ABDOMINAL TRAUMA IN CHILDREN WITH CONCERN FOR PHYSICAL ABUSE**
M Katherine Henry ⁽¹⁾, Susan J Back ⁽¹⁾, Aaron E Chen ⁽³⁾, Kassa Darge ⁽¹⁾, Teniola I Egbe ⁽⁴⁾, Laura Poznick ⁽¹⁾, Philip V Scribano ⁽²⁾, Sabah Servaes ⁽¹⁾, Joanne N Wood ⁽²⁾
⁽¹⁾ Department of Radiology, Children's Hospital of Philadelphia, Philadelphia (USA), ⁽²⁾ Division of General Pediatrics, Children's Hospital of Philadelphia, Philadelphia (USA), ⁽³⁾ Division of Emergency Medicine, Children's Hospital of Philadelphia, Philadelphia (USA), ⁽⁴⁾ Center for Pediatric Clinical Effectiveness, Children's Hospital of Philadelphia, Philadelphia (USA)
- 17:05-17:20 **From lesion characterization to targeted drug delivery: the future of CEUS**
Erika Rubesova (Stanford, USA)



Friday, October 15, 2021

16:00-17:20 SCIENTIFIC SESSION VIII-C:

GASTROINTESTINAL

Imaging of pancreatitis in pediatrics

Moderators: ESPR & SPR

16:00-16:15 Present techniques in pediatric pancreatic imaging

Philippe Petit (Marseille, France)

16:15-17:05 SCIENTIFIC PAPERS

16:15-16:23 NORMAL SPLEEN STIFFNESS VALUES IN HEALTHY CHILDREN BY SHEAR WAVE ELASTOGRAPHY AND ASSOCIATIONS (WITH AGE, GENDER, AND SPLEEN SIZE)

Zuhal Bayramoglu, Elif Hazal Karli, Ayse Ibis

Istanbul University, Istanbul Medical Faculty, Radiology Department, Istanbul (TURKEY)

16:23-16:31 CAN MRI DIFFERENTIATE HEPATIC HEMANGIOMA FROM OTHER LESIONS IN EARLY INFANCY?

Dan Halevy ⁽¹⁾, Blayne Sayed ⁽²⁾, Furqan Shaikh ⁽³⁾, Simon Ling ⁽⁴⁾, Iram Siddiqui ⁽⁵⁾, Govind Chavhan ⁽⁶⁾

⁽¹⁾ Hospital for Sick Children, Toronto (CANADA), ⁽²⁾ Hospital for Sick Children, Toronto (CANADA), ⁽³⁾ Hospital for Sick Children, Toronto (CANADA), ⁽⁴⁾ Hospital for Sick Children, Toronto (CANADA), ⁽⁵⁾ Hospital for Sick Children, Toronto (CANADA), ⁽⁶⁾ Hospital for Sick Children, Toronto (CANADA)

16:31-16:39 DEVELOPMENT AND USE OF A SPIO NANOPARTICLES-BASED PHANTOM FOR VALIDATION AND DISSEMINATION OF NONINVASIVE MRI METHODS FOR EVALUATION OF LIVER IRON OVERLOAD

Petr Bulanov, Evelina Nazarova, Petr Menshchikov ^(1,2),

Dmitry Kupriyanov ^(1,2), Galina Tereshchenko, Galina Novichkova

⁽¹⁾ Dmitry Rogachev National Medical Research Center of Pediatric Hematology, Oncology and Immunology, Moscow (RUSSIAN FEDERATION), ⁽²⁾ Philips Healthcare, Moscow (RUSSIAN FEDERATION)

16:39-16:47 LIVER IRON QUANTIFICATION IN CHILDREN: COMPARISON OF MULTI-ECHO DIXON VIBE WITH T2* RELAXOMETRY

Geetika Khanna, Sudhir Bhimaniya, Zhongwei Zhang

Washington University, St Louis (USA)

17:05-17:20 New pathways to examine biliary disease

Mike Callahan (Boston, USA)



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16:00-17:20 SCIENTIFIC SESSION VIII-D: FETAL IMAGING - Thoracic fetal imaging

Moderators: ESPR & SPR

16:00-16:15 **When to watch, when to cut, and when to ignore**
Amy Mehollin-Ray (Houston, USA)

16:15-17:05 SCIENTIFIC PAPERS

16:15-16:23 **FEASIBILITY OF NON-GATED DYNAMIC FETAL CARDIAC MRI FOR IDENTIFICATION OF FETAL CARDIOVASCULAR ANATOMY**
Julia Geiger ⁽¹⁾, Ruth Tuura ⁽²⁾, Fraser Callaghan ⁽²⁾, Barbara Burkhardt ⁽³⁾, Kelly Payette ⁽²⁾, Andras Jakab ⁽²⁾, Christian Kellenberger ⁽¹⁾, Emanuela Valsangiacomo ⁽³⁾

⁽¹⁾ Imaging Department, Zurich (SWITZERLAND), ⁽²⁾ Center for MR research, Zurich (SWITZERLAND), ⁽³⁾ Pediatric Cardiology, Zurich (SWITZERLAND)

16:23-16:31 **HIGH-RESOLUTION MORPHOLOGICAL AND FUNCTIONAL MR IMAGING OF THE FETAL HEART USING DOPPLER ULTRASOUND GATING: COMPARISON AND OPTIMIZATION ON A PULSE SEQUENCE ASPECT**

Roland Cronenber ⁽¹⁾, Shuo Zhang ⁽²⁾, Barbara Ulm ⁽³⁾, Hendrik Kooijman-Kurfuerst ⁽²⁾, Fabian Kording (4, 5), Daniela Prayer ⁽¹⁾, Vanessa Berger-Kulemann ⁽¹⁾

⁽¹⁾ Dept Biomed Imaging, Division Neuroradiology and Musculoskeletal Radiology, Medical University of Vienna, Vienna (AUSTRIA), ⁽²⁾ Philips Healthcare, Hamburg (GERMANY), ⁽³⁾ Dept Gynecology and Obstetrics, Division of Feto-Maternal Medicine, Medical University of Vienna, Vienna (AUSTRIA), ⁽⁴⁾ Dept Diagnostic and Interventional Radiology and Nuclear Medicine, University Hospital Hamburg-Eppendorf, Hamburg (GERMANY), ⁽⁵⁾ northh medical GmbH, Hamburg (GERMANY)

16:31-16:39 **FOUR-DIMENSIONAL FETAL CARDIAC MR IMAGING FOR FUNCTIONAL ASSESSMENT**

Nicholas Rubert ⁽¹⁾, Jonathan D. Plasencia ⁽²⁾, Dianna M.E. Bardo ⁽¹⁾, Christopher L. Lindblade ⁽²⁾, Luis F. Goncalves ⁽¹⁾

⁽¹⁾ Phoenix Children's Hospital -Department of Radiology, Phoenix (UNITED STATES), ⁽²⁾ Phoenix Children's Hospital - Department of Cardiology, Phoenix (UNITED STATES)

16:39-16:47 **LOCATION, LOCATION, LOCATION: THE REAL ESTATE OF FETAL LUNG LESIONS**

Edward Oliver ⁽¹⁾, Ryne Didier ⁽¹⁾, Suzanne DeBari ⁽¹⁾, Teresa Victoria ⁽¹⁾, Shelly Soni ⁽²⁾, N. Scott Adzick ⁽²⁾, Beverly Coleman ⁽¹⁾

⁽¹⁾ Children's Hospital of Philadelphia - Department of Radiology, Philadelphia (USA), ⁽²⁾ Children's Hospital of Philadelphia - Department of Surgery, Philadelphia (USA)



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- 16:47-16:55 **EVOLUTION OF THE T1-WEIGHTED SIGNAL OF THE FETAL LIVER DURING PREGNANCY**
Max Zalcmán, Aurélie D'hondt, Jarrett Rosenberg, Safwan Halabi, Richard Barth, Erika Rubesova
Lucille Packard Children's Hospital, Stanford University - Department of Pediatric Radiology, Stanford (USA)
- 16:55-17:03 **PRENATAL MRI IN DIFFERENTIATING CYSTIC TERATOMAS AND VENOLYMPHATIC MALFORMATIONS OF THE FETAL NECK.**
Sara Reis Teixeira, Cesar A.P.F. Alves, Juan Sebastian Martin-Saavedra, Fabricio G. Guimaraes, Avrum Pollock, Edward Oliver, Teresa Victoria, Larissa T. Bilaniuk, Tamara Feygin
Children's Hospital of Philadelphia, Philadelphia (USA)
- 17:05-17:20 **New directions in fetal lung imaging**
Lucia Manganaro (Rome, Italy)

17:25-17:45 Closing Ceremony

09:00-17:00 Cases of the Day

Moderators: Neil Johnson (Cincinnati, USA), Aurelio Secinaro (Rome, Italy)

NOT CME ACCREDITATION