

**PRELIMINARY
PROGRAMME**



IPR
2021
INTERNATIONAL PEDIATRIC
RADIOLOGY
CONGRESS

Building on the Classics: History, Innovation and Inspiration

Rome, October 11-15, 2021 - www.ipr2021.org

IPR Presidents: Andrea Rossi - J Damien Grattan-Smith





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Sunday, October 10, 2021

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

11:00-13:00 **FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM session I-A (concurrent)**

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 **Tract-Specific Trajectories in the Fetal White Matter**

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**

11:00-13:00 **WFPI PRE-COURSE COLLOQUIUM session II-A (concurrent) 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 Lee (Boston, MS)

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**

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Sunday, October 10, 2021

11:00-13:00 POSTMORTEM PRE-COURSE COLLOQUIUM session III-A (concurrent) 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**

11:00-13:00 CHILD ABUSE PRE-COURSE COLLOQUIUM session IV-A (concurrent) 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**
TBD
- 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 (concurrent) - Pediatric imaging without sedation

- Moderators:* Daniel Gräfe (Leipzig, Germany),
Shreyas Vasanawala (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 Vasanawala (Stanford, USA)
- 11:45-12:00 **Clinical examples : Abdomen/Pelvis**
Shreyas Vasanawala (Stanford, USA)



Sunday, October 10, 2021

12:00-13:00 **ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM session V-A2 (concurrent) - MR fingerprinting & quantitative MR**

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

12:00-12:30 **MR fingerprinting, Synthetic MRI**

Lawrence Wald (Boston, USA)

12:30-12:45 **How well do synthetic images match acquired images in patients with pathology?**

Safwan Halabi (Stanford, USA)

12:45-13:00 **What spatial resolution is adequate for clinical MR fingerprinting?**

Safwan Halabi (Stanford, USA)

13:00-14:00 *Lunch*

14:15-15:45 **FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM session I-B (concurrent)**

Moderators: Brandon Brown (Indianapolis, USA), Pablo Caro (Seville, Spain)

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 (Baltimore, USA)

14:45-15:00 **Diagnostic Dilemmas: Abdominal wall defects from the belly button down**

Pablo Caro (Sevilla, Spain)

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 (concurrent) Imaging of tuberculosis – past or current problem?**

Moderators: Savvas Andronikou (Philadelphia), 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**



Sunday, October 10, 2021

14:15-15:45 **POSTMORTEM PRE-COURSE COLLOQUIUM session III-B (concurrent) The technique**

Moderators: Owen Arthurs (London, UK), TBD

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**

14:15-15:45 **CHILD ABUSE PRE-COURSE COLLOQUIUM session IV-B (concurrent) 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 (concurrent) 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)



Sunday, October 10, 2021

15:00-15:45 **ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM session V-B2 (concurrent) Myelin imaging**

Moderators: Stephen Little (Nashville, USA), TBD

15:00-15:25 **Methods for myelin imaging**

TBD

15:25-15:45 **How accurate is myelin imaging?**

Jonathan O'Muircheartaigh (London, UK)

15:45-16:15 *Break*

16:00-17:45 **FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM session I-C (concurrent)**

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

16:00-16:20 **3T fetal MR imaging: How do we make it work?**

TBD

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!!!!**

Pablo Caro (Seville, Spain), Monica Epelman (Orlando, USA)

16:15-17:45 **WFPI PRE-COURSE COLLOQUIUM session II-C (concurrent) - Paediatric MRI – worldwide approach**

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

16:15-16:35 **Standardisation of paediatric MRI: international initiatives**

Wendy Lam (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 (concurrent) The main findings**

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

- 16:15-16:40 **Post mortem imaging - CNS**
Stacy Goergen (Melbourne, Australia)
- 16:40-17:05 **Post mortem imaging - chest**
TBD
- 17:05-17:30 **Post mortem imaging - abdomen**
TBD
- 17:30-17:45 **Discussion**

16:15-17:45 **CHILD ABUSE PRE-COURSE COLLOQUIUM session IV-C (concurrent) 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 **HRpQCT and microCT**
TBD
- 17:30-17:45 **Discussion**

16:15-17:45 **ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM session V-C (concurrent) 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**

10:00-18:00 **ESPR Board Meeting / SPR Board Meeting**



Monday, October 11, 2021

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

8:30-10:00 FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM session I-D (concurrent)

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 (concurrent) Paediatric ultrasound – who, how and where (WFPI)

Moderators Savvas Andronikou (Philadelphia),
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)

8:50-9:10 **Training Initiatives and Task Shifting in Africa**
Kristen Destigter (Burlington, Vermont)

9:10-9:30 **Standards and experience: a long history of practice in South America**
Ramon Sanchez (Washington DC, 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 (concurrent) 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**
TBD

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

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



Monday, October 11, 2021

8:30-10:00 **CHILD ABUSE PRE-COURSE COLLOQUIUM session IV-D (concurrent)** **Brain**

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

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

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

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

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

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

8:30-9:15 **ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM** **session V-D1 (concurrent) - MR Urography**

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

8:30-8:45 **Patient preparation and protocol for anatomical information**
Jonathan Dillman (Cincinnati)

8:45-9:00 **Recommended protocol for dynamic imaging and post-processing options**
Sila Kurugol (Boston, USA)

9:00-9:15 **Does MRU provide reliable, quantitative, information on renal function?**
Sila Kurugol (Boston, USA)

9:15-10:00 **ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM** **session V-D2 (concurrent) - Arterial Spin Labeling (ASL) Perfusion**

Moderators Arastoo Vossough (Philadelphia, USA), TBD

9:15-9:30 **Recommended labelling method and merits of 2D/3D acquisitions**
TBD

9:30-9:45 **Single or multiple delays for clinical studies? Labelling efficiency and other sources of error**
TBD

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 (concurrent)

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 **Cases from your institution**
Brandon Brown (Indianapolis, USA)

10:30-12:00 WFPI PRE-COURSE COLLOQUIUM session II-E (concurrent) 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)
- 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)
- 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 (concurrent)

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 session IV-E (concurrent) 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 (concurrent) - 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 (concurrent) 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 **Lunch Break**



Monday, October 11, 2021

13:00-14:50 Categorical Course I-A (concurrent): 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 (concurrent): 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**
TBD
- 13:36-13:54 **Quantitative biomarkers in cardiac imaging**
Cynthia Rigsby (Chicago, USA)
- 13:54-14:12 **Advances in MR angiography for CHD**
Oliver Tann (London, UK) TO BE REPLACED
- 14:12-14:30 **Pediatric sudden cardiac death**
Rajesh Krishnamurthy (Columbus, USA)
- 14:30-14:48 **Fetal cardiac imaging and what to do - (cases)**
TBD

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



Monday, October 11, 2021

15:30-16:50 Categorical Course II-A (concurrent): 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 (concurrent): 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)
- 15:46-16:02 **Changing landscape of inherited white matter disease**
Marjo van der Knaap (Amsterdam, the Netherlands)
- 16:02-16:18 **Hunting for epileptogenic zone in epilepsy**
Stephen Little (Atlanta, USA)
- 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 & Dancing*



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 (concurrent): 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 (concurrent): 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: (concurrent) 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: 9**

11:30-11:45 **Can we improve our imaging protocols?**

Orit Glenn (San Francisco, USA)

10:00-11:45 Scientific Session

I-B: (concurrent) 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: 9**

11:30-11:45 **Moving forward: Cardiac MR versus Echo**

Tim Leiner (Utrecht, the Netherlands)

10:00-11:45 Scientific Session

I-C: (concurrent) 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: 9**

11:30-11:45 **High-resolution ultrasound of neonatal renal cystic diseases**

Pablo Caro (Seville, Spain)

10:00-11:45 Scientific Session

I-D (concurrent) ONCOLOGY - Hybrid imaging in predisposing conditions

Moderators - ESPR & SPR

10:00-10:15 **The "Intrinsically Hybrid" approach to whole body MRI**

TBD

10:15-11:30 **Scientific Papers: 9**

11:30-11:45 **A forecast for PET/MRI in predisposing cancer conditions**

Mary-Louise Greer (Toronto, Canada)



Tuesday, October 12, 2021

12:00-13:00 *Lunch*

12:00-13:00 **Sponsor Symposium A**

12:00-13:00 **Sponsor Symposium B**

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 (concurrent): Gastrointestinal: the essentials**

Moderators - ESRP & 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)

14:15-15:15 **Categorical Course
IV-B (concurrent): Musculoskeletal: tips for specialists**

Moderators - ESRP & 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*



Tuesday, October 12, 2021

15:50-16:50 Scientific Session II-A (concurrent) 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: 4**

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

15:50-16:50 Scientific Session II-B (concurrent) C ONTRAST 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: 4**

16:35-16:50 **Potential of non-contrast enhanced angiography**
Christian Kellenberger (Zurich, Switzerland)

15:50-16:50 Scientific Session II-C: (concurrent) 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 **Cultural and political similarities and differences in paediatric societies through continents**
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: (concurrent)** **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 Awards and Honorary Members Ceremony**

18:15 **Adjourn**

20:00-23:30 **Joint Presidents' Reception**



Wednesday, October 13, 2021

6:45-8:30 *Breakfast*

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

7:30-8:20 **Sunrise Session 1-A (Concurrent): 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 (Concurrent): 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 (Concurrent): 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)

7:50-10:00 **Radiographers' Programming**



Wednesday, October 13, 2021

8:30-10:00 Categorical Course V-A (concurrent) - 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 (concurrent) - 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

10:30-11:00 Radiographers' Programming



Wednesday, October 13, 2021

10:30-11:30 Categorical course VI-A (concurrent) - Interventional: the essentials

Moderators: ESPR & SPR

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

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)

10:30-11:30 Categorical Course VI-B (concurrent) - 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)

11:35-13:05 Radiographer's Programming



Wednesday, October 13, 2021

11:35-13:15 Scientific Session III-A: (concurrent) 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: 8**

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: (concurrent) 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: 8**

13:00-13:15 **New applications of 4D MRI**

Andrew Taylor (London, UK)

11:35-13:15 Scientific Session III-C: (concurrent) 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: 8**

13:00-13:15 **Advanced imaging of the renal parenchyma**

Gabrielle Colleran (Boston, USA)

11:35-13:15 Scientific Session III-D: (concurrent) ONCOLOGY - Current controversies in childhood cancer

Moderators: ESPR & SPR

11:35-11:50 **Pitfalls and errors in pediatric oncologic imaging**

Kieran McHugh (London, UK)

11:50-13:00 **Scientific Papers: 8**

13:00-13:15 **Approach to thyroid nodules in children**

Monica Epelman (Orlando, USA)

13:30-14:30 **Lunch**



Wednesday, October 13, 2021

13:30-14:30 Sponsor Symposium C

13:30-14:30 Sponsor Symposium D

13:30-15:00 Pediatric Radiology Editorial Board Lunch meeting

14:30 *Adjourn*



Thursday, October 14, 2021

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

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

7:30-8:20 **Sunrise Session** **2-A (Concurrent): 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 (Concurrent): 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 (Concurrent): 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 (concurrent) - Oncology: the essentials

Moderators: ESPR & SPR

8:30-8:48 **Common abdominal tumors : location, location location!**

Annemieke Littooij (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 (concurrent) - 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)**

TBD

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**

TBD

9:42-10:00 **Pediatric chest : "Zebra" diagnoses (cases)**

Monica Epelman (Orlando, USA)

8:30-11:55 Radiographer's programming

10:00-10:30 *Break*



Thursday, October 14, 2021

10:30-11:55 Scientific Session IV-A: (concurrent) 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: 6**

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: (concurrent) 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: 6**

11:40-11:55 **Functional imaging of the future**
Jonathan Dillman (Cincinnati, USA)

10:30-11:55 Scientific Session IV-C: (concurrent) 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: 6**

11:40-11:55 **In congenital disorders**
Willemijn Klein (Nijmegen, the Netherlands)

10:30-11:55 Scientific Session IV-D: (concurrent) 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: 6**

11:40-11:55 **Will hybrid imaging replace conventional MR in pediatric oncology?**
Maria Carmen Garganese (Rome, Italy)

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Thursday, October 14, 2021

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)

12:45-13:45 Lunch

12:45-13:45 Sponsor Symposium E

12:45-13:45 Sponsor Symposium F

13:50-15:15 IPR Olympics Panel

Moderators: Thierry A.G.M Huisman (Houston, USA);
Rutger-Jan Nievelstein (Utrecht, the Netherlands)

Team ESPR: Fred Avni (Brussels, Belgium);
Franz-Wolfgang Hirsch (Leipzig, Germany); 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)

15:20-16:20 Categorical Course VIII-A (concurrent): 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)



Thursday, October 14, 2021

15:20-16:20 Categorical Course VIII-B (concurrent): 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)

13:50-16:20 Radiographers' programming

16:20-16:50 *Break*

16:50-18:00 Radiographers' Programming

16:50-18:00 Scientific Session V-A: (concurrent) 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: 5**

17:45-18:00 **Human-machine partnership in pediatric radiology: How can AI help us?**

Susan Shelmerdine (London, UK)



Thursday, October 14, 2021

16:50-18:00 Scientific Session

V-B : (concurrent) 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: (concurrent)

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: 5**

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: (concurrent) 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: 5**

17:45-18:00 **Hot issues and new frontiers in theranostics in children**

Andrew Trout (Cincinnati, USA)

18:00 *Adjourn*

21:00-23:00 *Concert*



Friday, October 15, 2021

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

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

7:30-8:20 **Sunrise Session** **3-A (Concurrent): 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 (Concurrent): 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 (Concurrent): Chest**

Moderator

7:30-7:55 **Lung MRI: Current practical techniques and how to optimize it**
Edward 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 (concurrent): Imaging strategies: the essentials**

Moderators - ESPR & SPR

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

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 (concurrent): 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 (concurrent) 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 (concurrent) GASTROINTESTINAL Quantitative imaging of the bowel: peristalsing to the future

Moderators - ESRP & SPR

10:30-10:45 **State of the art**
Tom Watson (London, UK)

10:45-11:40 **Scientific Papers: 6**

11:40-11:55 **New directions for understanding bowel physiology**
Ethan Smith (Cincinnati, USA)

10:30-11:55 Scientific Session VI-C: (concurrent) MUSCULOSKELETAL New developments in MSK imaging

Moderators - ESRP & 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: 6**

11:40-11:55 **The future of qualitative and quantitative musculoskeletal imaging in children**
Maria Beatrice Damasio (Italy)

10:30-11:55 Scientific Session VI-D: (concurrent) FETAL IMAGING - New steps in imaging the fetus

Moderators - ESRP & 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: 6**

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 ESRP General Assembly

12:00-13:00 SPR Business Meeting

13:00-14:00 Lunch



Friday, October 15, 2021

14:10-15:30 **Scientific Session VII-A: (concurrent) 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: 6**

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: (concurrent) 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: 6**

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: (concurrent) 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: 6**

15:15-15:30 **MRI imaging of biomarkers: the future of diagnosis and targeted treatment in JIA**
TBD



Friday, October 15, 2021

14:10-15:30 Scientific Session VII-D: (concurrent) 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: 6**

15:15-15:30 **What can we now diagnose that we didn't know before?**
Teresa Victoria (Philadelphia, USA)

15:30-16:00 Break

16:00-17:20 Scientific Session VIII-A: (concurrent) 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: 6**

17:05-17:20 **Minimally invasive cancer therapies of the future**
Fernando Gómez Muñoz (Barcelona, Spain)

16:00-17:20 Scientific Session VIII-B: (concurrent) 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: 6**

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: (concurrent) 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: 6**

17:05-17:20 **New pathways to examine biliary disease**
Mike Callahan (Boston, USA)

16:00-17:20 Scientific Session **VIII-D: (concurrent) 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: 6**

17:05-17:20 **New directions in fetal lung imaging**
Lucia Manganaro (Rome, Italy)

17:25-17:45 Closing Ceremony

20:00-23:30 Dinner Dance