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
Under the Patronage of:

ASSOCIAZIONE ITALIANA DI NEURORADIOLOGIA DIAGNOSTICA E INTERVENTISTICA

AFRICAN SOCIETY OF PAEDIATRIC IMAGING

ASIAN AND OCEANIC SOCIETY FOR PAEDIATRIC RADIOLOGY

SOCIETA’ ITALIANA DI RADIOLOGIA MEDICA E INTERVENTISTICA

SOCIEDAD LATINO AMERICANA DE RADIOLOGIA PEDIATRICA

WORLD FEDERATION OF PEDIATRIC IMAGING
## INDEX

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONGRESS VENUE</td>
<td>11</td>
</tr>
<tr>
<td>COVID-19 and IPR Congress 2021</td>
<td>12</td>
</tr>
<tr>
<td>SCIENTIFIC INFORMATION</td>
<td>13</td>
</tr>
<tr>
<td>PROGRAM AT A GLANCE</td>
<td>16</td>
</tr>
<tr>
<td>SCIENTIFIC PROGRAM</td>
<td>22</td>
</tr>
</tbody>
</table>

### Sunday, October 10, 2021

<table>
<thead>
<tr>
<th>Session I-A</th>
<th>22</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFPI PRE-COURSE COLLOQUIUM</td>
<td></td>
</tr>
<tr>
<td>Session II-A</td>
<td></td>
</tr>
<tr>
<td>Epidemics and pandemics – the role of the pediatric radiologist</td>
<td>23</td>
</tr>
<tr>
<td>POSTMORTEM PRE-COURSE COLLOQUIUM</td>
<td></td>
</tr>
<tr>
<td>Session III-A</td>
<td></td>
</tr>
<tr>
<td>The basics</td>
<td>23</td>
</tr>
<tr>
<td>CHILD ABUSE PRE-COURSE COLLOQUIUM</td>
<td></td>
</tr>
<tr>
<td>Session IV-A</td>
<td></td>
</tr>
<tr>
<td>Bones (I)</td>
<td>24</td>
</tr>
<tr>
<td>ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM</td>
<td></td>
</tr>
<tr>
<td>Session V-A1</td>
<td></td>
</tr>
<tr>
<td>Pediatric imaging without sedation</td>
<td>24</td>
</tr>
<tr>
<td>ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM</td>
<td></td>
</tr>
<tr>
<td>Session V-D1</td>
<td></td>
</tr>
<tr>
<td>MR Urography</td>
<td>24</td>
</tr>
<tr>
<td>FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM</td>
<td></td>
</tr>
<tr>
<td>Session I-B</td>
<td>25</td>
</tr>
<tr>
<td>WFPI PRE-COURSE COLLOQUIUM</td>
<td></td>
</tr>
<tr>
<td>Session II-B</td>
<td></td>
</tr>
<tr>
<td>Imaging of tuberculosis – past or current problem?</td>
<td>25</td>
</tr>
<tr>
<td>Session</td>
<td>Topic</td>
</tr>
<tr>
<td>---------</td>
<td>-------</td>
</tr>
<tr>
<td>III-B</td>
<td>The technique</td>
</tr>
<tr>
<td>IV-B</td>
<td>Body, bloods &amp; bones (II)</td>
</tr>
<tr>
<td>V-B1</td>
<td>Neonatal imaging</td>
</tr>
<tr>
<td>V-B2</td>
<td>Myelin imaging</td>
</tr>
<tr>
<td>I-C</td>
<td>Feto-placental imaging</td>
</tr>
<tr>
<td>II-C</td>
<td>Paediatric MRI – worldwide approach</td>
</tr>
<tr>
<td>III-C</td>
<td>The main findings</td>
</tr>
<tr>
<td>IV-C</td>
<td>Evolving techniques</td>
</tr>
<tr>
<td>V-C</td>
<td>Cardiac MRI</td>
</tr>
</tbody>
</table>
### Monday, October 11, 2021

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-D</td>
<td>FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM</td>
<td>29</td>
</tr>
<tr>
<td>II-D</td>
<td>WFPI PRE-COURSE COLLOQUIUM</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Paediatric ultrasound – who, how and where (WFPI)</td>
<td>29</td>
</tr>
<tr>
<td>III-D</td>
<td>POSTMORTEM PRE-COURSE COLLOQUIUM</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Reporting and correlating with pathology</td>
<td>29</td>
</tr>
<tr>
<td>IV-D</td>
<td>CHILD ABUSE PRE-COURSE COLLOQUIUM</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Brain</td>
<td>30</td>
</tr>
<tr>
<td>V-A2</td>
<td>ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>MR fingerprinting &amp; quantitative MR</td>
<td>30</td>
</tr>
<tr>
<td>V-D2</td>
<td>ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Arterial spin labeling (ASL) perfusion</td>
<td>30</td>
</tr>
<tr>
<td>I-E</td>
<td>FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM</td>
<td>31</td>
</tr>
<tr>
<td>II-E</td>
<td>WFPI PRE-COURSE COLLOQUIUM</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Paediatric ultrasound – forgotten tool</td>
<td>31</td>
</tr>
<tr>
<td>III-E</td>
<td>POSTMORTEM PRE-COURSE COLLOQUIUM</td>
<td>31</td>
</tr>
<tr>
<td>IV-E</td>
<td>CHILD ABUSE PRE-COURSE COLLOQUIUM</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Medico-Legal</td>
<td>32</td>
</tr>
</tbody>
</table>
### ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM

**Session V-E1**  
A physician's guide to DTI  
32

**Session V-E2**  
Neuro Oncology: the role of MRI in the treatment of pediatric brain tumors  
32

### CATEGORICAL COURSE I-A

Neuro/head&neck: the essentials  
33

### CATEGORICAL COURSE I-B

Cardiac: tips for specialists  
33

### CATEGORICAL COURSE II-A

Cardiac: the essentials  
34

### CATEGORICAL COURSE II-B

Neuro/head&neck: tips for specialists  
34

**Opening lectures & Round Table**  
34

---

**Tuesday, October 12, 2021**  
35

### CATEGORICAL COURSE III-A

Musculoskeletal: the essentials  
35

### CATEGORICAL COURSE III-B

Gastrointestinal: tips for specialists  
35

### SCIENTIFIC SESSION I-A:

NEURO - Cutting edge imaging of the neonatal brain  
36

### SCIENTIFIC SESSION I-B:

CARDIAC - 3D MR imaging of the fetal heart  
38

### SCIENTIFIC SESSION I-C:

GENITOURINARY - Updates: genetic causes of renal abnormalities  
40

### SCIENTIFIC SESSION I-D

ONCOLOGY - Hybrid imaging in predisposing conditions  
42

JACQUES LEFEBVRE/EDWARD B. NEUHAUSER LECTURE  
44
<table>
<thead>
<tr>
<th>Category</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATEGORICAL COURSE IV-A</td>
<td>Gastrointestinal: the essentials</td>
<td>44</td>
</tr>
<tr>
<td>CATEGORICAL COURSE IV-B</td>
<td>Musculoskeletal: tips for specialists</td>
<td>45</td>
</tr>
<tr>
<td>SCIENTIFIC SESSION II-A</td>
<td>CHEST - The floppy windpipe: Is it always tracheomalacia?</td>
<td>45</td>
</tr>
<tr>
<td>SCIENTIFIC SESSION II-B</td>
<td>CONTRAST MATERIALS - New techniques in MR vascular imaging</td>
<td>46</td>
</tr>
<tr>
<td>SCIENTIFIC SESSION II-C: WORKING TOGETHER</td>
<td>Celebrating the 10th Anniversary of the WFPI</td>
<td>47</td>
</tr>
<tr>
<td>SCIENTIFIC SESSION II-D: IMAGE GENTLY/EUROSAFE SESSION</td>
<td>Pediatric CT diagnostic reference levels: paradigm or paradox?</td>
<td>48</td>
</tr>
</tbody>
</table>

**Wednesday, October 13, 2021**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUNRISE SESSION 1-A</td>
<td>Education</td>
<td>49</td>
</tr>
<tr>
<td>SUNRISE SESSION 1-B</td>
<td>Nuclear medicine</td>
<td>49</td>
</tr>
<tr>
<td>SUNRISE SESSION 1-C</td>
<td>Musculoskeletal</td>
<td>49</td>
</tr>
<tr>
<td>CATEGORICAL COURSE V-A</td>
<td>Genitourinary: the essentials</td>
<td>50</td>
</tr>
<tr>
<td>CATEGORICAL COURSE V-B</td>
<td>Interventional: tips for specialists</td>
<td>50</td>
</tr>
<tr>
<td>CATEGORICAL COURSE VI-A</td>
<td>Interventional: the essentials</td>
<td>50</td>
</tr>
<tr>
<td>CATEGORICAL COURSE VI-B</td>
<td>Genitourinary: tips for specialists</td>
<td>51</td>
</tr>
<tr>
<td>SCIENTIFIC SESSION III-A: NEURO</td>
<td>From structural to functional pediatric neuroimaging</td>
<td>51</td>
</tr>
<tr>
<td>SCIENTIFIC SESSION III-B: CARDIAC</td>
<td>4D flow MRI</td>
<td>53</td>
</tr>
<tr>
<td>Session Title</td>
<td>Page</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION III-C: GENITOURINARY - New approaches to detect damage to the pediatric kidney</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION III-D: ONCOLOGY - Current controversies in childhood cancer</td>
<td>57</td>
<td></td>
</tr>
<tr>
<td>Thursday, October 14, 2021</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>SUNRISE SESSION 2-A Technology &amp; AI</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>SUNRISE SESSION 2-B Neuro</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>SUNRISE SESSION 2-C Radioprotection</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>CATEGORICAL COURSE VII-A Oncology: the essentials</td>
<td>61</td>
<td></td>
</tr>
<tr>
<td>CATEGORICAL COURSE VII-B Thoracic: tips for specialists</td>
<td>61</td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION IV-A: NEURO - Are genes or environments in control with CNS diseases?</td>
<td>62</td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION IV-B: GASTROINTESTINAL - Star Trek here we come!</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>Changes in abdominal imaging and biological markers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION IV-C: THORACIC - Fifty shades of lymphatic imaging:</td>
<td>66</td>
<td></td>
</tr>
<tr>
<td>visualization of the invisible vessels</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION IV-D: NUCLEAR MEDICINE - The world of PET/MR</td>
<td>68</td>
<td></td>
</tr>
<tr>
<td>JeSPeR Lecture</td>
<td>69</td>
<td></td>
</tr>
<tr>
<td>CATEGORICAL COURSE VIII-A Thoracic: the essentials</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>CATEGORICAL COURSE VIII-B Oncology: tips for specialists</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>Scientific Session V-A: Artificial Intelligence and Informatics</td>
<td>Integrating AI tools into pediatric radiology practice</td>
<td>71</td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td>--------------------------------------------------</td>
<td>----</td>
</tr>
<tr>
<td>Scientific Session V-B: Education and Career Development</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>Scientific Session V-C: Oncology - Late effects in survivors of childhood cancer, brain and spine</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>Scientific Session V-D: Nuclear Medicine - Theranostics: more than just a difficult word to pronounce</td>
<td>73</td>
<td></td>
</tr>
</tbody>
</table>

**Friday, October 15, 2021**

| Sunrise Session 3-A | Body imaging | 76 |
| Sunrise Session 3-B | MRI | 76 |
| Sunrise Session 3-C | Chest | 76 |
| Categorical Course IX-A | Imaging strategies: the essentials | 76 |
| Categorical Course IX-B | Imaging strategies: tips for specialists | 77 |

<table>
<thead>
<tr>
<th>Scientific Session VI-A</th>
<th>Junior IPR Session</th>
<th>How to build an academic career in pediatric radiology</th>
<th>77</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scientific Session VI-B</td>
<td>Gastrointestinal</td>
<td>Quantitative imaging of the bowel: peristalsing to the future</td>
<td>78</td>
</tr>
<tr>
<td>Scientific Session VI-C: Musculoskeletal</td>
<td>New developments in MSK imaging</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>Scientific Session VI-D: Fetal Imaging</td>
<td>New steps in imaging the fetus</td>
<td>82</td>
<td></td>
</tr>
<tr>
<td>Session Title</td>
<td>Page</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------</td>
<td>------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION VII-A:</td>
<td>84</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERVENTIONAL RADIOLOGY - Pediatric endovascular therapy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION VII-B:</td>
<td>85</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GASTROINTESTINAL - It is not just about the heart:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GI pathology in children with congenital cardiovascular disease</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION VII-C:</td>
<td>86</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSCULOSKELETAL IMAGING</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emerging quantitative MR imaging biomarkers in inflammatory arthritis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION VII-D:</td>
<td>88</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FETAL IMAGING - From fetal to postnatal, pushing the edge of lethality:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>diagnosis we know, diagnosis we don't</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION VIII-A:</td>
<td>89</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERVENTIONAL RADIOLOGY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interventional oncology for local delivery of therapies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION VIII-B:</td>
<td>91</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONTRAST MATERIALS - Bubbles in radiology: CEUS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION VIII-C:</td>
<td>93</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GASTROINTESTINAL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Imaging of pancreatitis in pediatrics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC SESSION VIII-D:</td>
<td>95</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FETAL IMAGING - Thoracic fetal imaging</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPEAKERS READY ROOM</td>
<td>97</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOW TO USE THE VIRTUAL PLATFORM</td>
<td>97</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GENERAL INFORMATION</td>
<td>101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDUCATIONAL POSTER</td>
<td>102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENTIFIC POSTER</td>
<td>117</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACKNOWLEDGEMENTS</td>
<td>164</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INDUSTRY - SPONSORED SYMPOSIA</td>
<td>165</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CONGRESS VENUE
Rome Marriott Park Hotel
Via Colonello Tommaso Masala, 54
00148 Rome, Italy

Marriott International has redefined processes and reimagined spaces to align with expert protocols on cleanliness. Marriott Cleanliness Council has elevated its rigorous protocols, redefining the cleaning and safety standards.
COVID-19 and IPR Congress 2021

The health and safety of our conference attendees and exhibitors is a priority. The IPR congress turned to a “hybrid” system thanks to which some speakers will be on site and others will be home. This choice will result in a decrease of on-site participants as present measure allowing many others to be remotely connected.

There has been an additional re-organization of the spaces dedicated to the congress to respect the distancing of the seats as current rules will state.

- Staff will oversee room capacity and prevent people from gathering
- Consumption of food and beverages will be restricted to designated areas.
- Hand sanitizing stations will be available in the common areas
- Only a luggage storage service will be foreseen (no cloakroom for personal item), in order to avoid contamination.

Measures to prevent covid specific for participants

- Participants are invited to pre-register online on the official Congress website to speed the onsite registration process and avoid queues or gatherings at the Organizing secretariat desks.
- Once you pick up the badge, from the second day on, you will just have to have the badge read at the entrance.
- We ask that all participants use discretion in attending the event. If you are feeling ill or exhibiting any symptoms of COVID-19, please exercise common sense and do not attend the conference that day. When in doubt, get medical attention for an appropriate diagnosis.
- Personnel in charge will check if participants wear their compulsory mask or invite to wear it and well as sanitizing their hands.
- Social distancing will be required in session rooms or meal functions.

In the meeting room reduced seats will be available according to the current rules for social distancing

Measures to prevent covid specific for speakers and moderators

- Staff will sanitize all the items used during the speeches including speakers’ table and also all the items in the speakers’ ready room
- During the lunch break a complete sanitization of all meeting rooms will be ensured.
SCIENTIFIC COMMITTEE

Co-President (ESPR): Andrea Rossi
Co-President (SPR): Damien Grattan-Smith

SCIENTIFIC BOARDS

Special Advisor to the Presidents
Rutger-Jan Nievelstein

Honorary President
Paolo Tomà

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Sunrise Sessions
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IPR Olympics
Thierry Huisman, Rutger-Jan Nievelstein (Utrecht, The Netherlands)

Junior IPR
Maddy Artunduaga, Pablo Caro, Julian Jürgens, Fiammetta Sertorio, Ellizabeth Snyder

Pre-course Colloquia
Owen Arthurs, Gabrielle Colleran, Arabinda Choudhary, Richard Jones, Joanna Kasznia-Brown, Mariana Meyers, Antonio Napolitano, Amaka Offiah

Cases of the Day Organisers
Neil D. Johnson (Cincinnati, USA)
Aurelio Secinaro (Rome, Italy)
Christopher Sternal-Johnson (Cincinnati, USA)
REGISTRATION DESK OPENING HOURS
Sunday, October 10  08.30-17.30  
Monday, October 11  07.30-19.00  
Tuesday, October 12  07.30-18.00  
Wednesday, October 13  07.00-13.00  
Thursday, October 14  07.00-18.00  
Friday, October 15  08.00-18.00

CME ACCREDITATION
The IPR2021 - The International Pediatric Radiology 8th Conjoint Congress & Exhibition, Rome (hybrid), Italy, 10/10/2021-15/10/2021 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 33 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

Participants will receive a dedicated link to access the UEMS platform which will be available starting from October 20, 2021 at 9:00 (CEST/UTC+2) up to January 22, 2022. You have to enter by using the same email and access code received to access the congress platform the very first time.

On site participants have to scan the barcode printed on the paper badge in the barcode readers at the entrance of the congress main foyers (Michelangelo and Tiziano). On site attendance will be registered and combined with the online UEMS attendance. Starting from 25 January 2021, all UEMS credits will be assigned. To obtain the credits you have to fill in the online questionnaire and then you can download the UEMS certificate.

At the same link it is also possible downloading the attendance certificate after filling the survey questionnaire.
THE PEDIATRIC RADIOLOGY SUPPLEMENT
In the showreel bar on the top of the virtual platform, by clicking on **CLICK HERE TO VIEW THE PEDIATRIC RADIOLOGY SUPPLEMENT** you will be connected to the Pediatric Radiology Supplement containing all the accepted abstact of the congress. The Supplement is available up to December 31, 2021

OLYMPICS 2021
**Thursday October 14, 13:50-15:15**
The IPR Olympics will be “The Event” of the Rome meeting. Top notch experts will compete on 6 different categories of cases on behalf of the ESPR or SPR. Audience participation will make this session even more exciting. See expert friends being puzzled by so called straightforward cases. This is a fun event with lots of didactic moments. We have also included some surprising trivia questions about Rome. Don’t miss this highlight of the meeting. Thierry A. Huisman and Rutger-Jan Nievelstein will serve as your quiz masters.

IPR 2021 ONLINE CASES OF THE DAY
**Tuesday October 12- Friday, October 15, 2021 - 07:00 to 17:00**
Sponsored by World Federation of Pediatric Imaging
Go to [https://www.iprcases.org/](https://www.iprcases.org/)

1) Register Once - It’s secure...Facebook will never know!
2) Log in each day
3) Submit your answers - On any Internet connection device
4) Check back daily and see how you performed

The cases will be available each day of the IPR at 06:00 Rome time and close for answers at 17:00 Rome time. At 17:01, each day the answers will be available at the iprcases web site and participants will each get individualized private online feedback on their answers and scoring etc

No CME accreditation is foreseen for the Cases of the day
<table>
<thead>
<tr>
<th>Time</th>
<th>Michelangelo Plenary Room</th>
<th>Tiziano 1</th>
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<th>Tiziano 3</th>
<th>Caravaggio</th>
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<td>Post-mortem - The basics</td>
<td>WFPI - Epidemics and pandemics</td>
<td>Child Abuse - Bones (I)</td>
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<td>15:45-16:15</td>
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# IPR 2021 PRE-COURSE COLLOQUIA - OCTOBER 10-11, 2021

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<td>08:30-09:15</td>
<td>MICHELANGELO</td>
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<td>PLENARY ROOM</td>
<td>Post-mortem Reporting and correlating with pathology</td>
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<td>Session III-D</td>
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<td>WFPI - Pediatric ultrasound</td>
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<td>who, how and where</td>
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<td>CARAVAGGIO ROOM</td>
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<td>Advanced Pediatric MRI - MR fingerprinting &amp; quantitative MR</td>
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<td>Advanced Pediatric MRI - A physician's guide to DTI</td>
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<td>19:00-22:00</td>
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# IPR 2021 CONGRESS - OCTOBER 11-15, 2021

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<td>13:00-14:50</td>
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<td>Categorical Course I-A</td>
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<td>Neuro/head&amp;neck: the essentials</td>
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<td>Categorical Course II-A</td>
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<td>Cardiac: the essentials</td>
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<td>17:30-19:00</td>
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<td>Opening Lecture</td>
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<td>Time</td>
<td>MICHELANGELO PLENARY ROOM</td>
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<td>08:00-09:30</td>
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<tr>
<td>10:00-11:45</td>
<td>Scientific Session I-A NEURO Cutting edge imaging of the neonatal brain</td>
<td>Scientific Session I-C GENITOURINARY Updates: genetic causes of renal abnormalities</td>
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<td>12:00-13:00</td>
<td>Lunch Symposium</td>
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<td>12:15-13:00</td>
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<td>13:10-14:15</td>
<td>Jacques Lefèbvre/Edward B. Neuhauser Lecture</td>
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<td>14:15-15:15</td>
<td>Scientific Course IV-A Gastrointestinal: the essentials</td>
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<td>15:00-16:50</td>
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<td>17:00-18:15</td>
<td>ESPR &amp; SPR Awards and Honorary Members Ceremony</td>
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<td>20:00-23:30</td>
<td>JESPER (Junior Evening)</td>
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<td>07:30-08:20</td>
<td>Sunrise Session I-A: Education</td>
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<td>Sunrise Session I-C: Musculoskeletal</td>
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<td>Sunrise Session I-B: Nuclear medicine</td>
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<td>08:30-10:00</td>
<td>Categorical Course V-A: Genitourinary; the essentials</td>
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<td>Categorical Course V-B: Interventional; tips for specialists</td>
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<td>Categorical Course IV-A: Interventional; the essentials</td>
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<td>Categorical Course VI-B: Genitourinary; tips for specialists</td>
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<td>11:35-13:15</td>
<td>Scientific Session III-A: NEURO From structural to functional pediatric neuroimaging</td>
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<td>Scientific Session III-C: GENITOURINARY New approaches to detect damage to the pediatric kidney</td>
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<td>Scientific Session III-B: CARDIAC 4D flow MRI</td>
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<td>Scientific Session III-D: ONCOLOGY Current controversies in childhood cancer</td>
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<td>07.30-08.20</td>
<td>MICHELANGELO</td>
<td>Sunrise Session II-A: Technology &amp; AI</td>
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<td>Sunrise Session II-B: Neuro</td>
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<td>Categorical Course VII-A: Oncology: the essentials</td>
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<td>Categorical Course VII-B: Thoracic: tips for specialists</td>
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<td>10:30-11:55</td>
<td>TIZIANO 1 ROOM</td>
<td>Scientific Session IV-A: NEURO: Are genes or environments in control with CNS diseases?</td>
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<td>Scientific Session IV-C: THORACIC: Fifty shades of lymphatic imaging: visualization of the invisible vessels</td>
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<td>Scientific Session IV-B: GASTROINTESTINAL: Star Trek here we come! Changes in abdominal imaging and biological markers</td>
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<td>Scientific Session IV-D: NUCLEAR MEDICINE: The world of PET/MR</td>
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<td>JESPeR Lecture</td>
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<td>16:50-18:00</td>
<td>TIZIANO 1 ROOM</td>
<td>Scientific Session V-A: ARTIFICIAL INTELLIGENCE AND INFORMATICS: Integrating AI tools into pediatric radiology practice</td>
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<td>Scientific Session V-C: ONCOLOGY: Late effects in survivors of childhood cancer, brain and spine</td>
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<td>Scientific Session V-B: EDUCATION AND CAREER DEVELOPMENT</td>
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<td>CARAVAGGIO ROOM</td>
<td>Scientific Session V-D: NUCLEAR MEDICINE: Theranostics: more than just a difficult word to pronounce</td>
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<td>Sunrise Session III-A</td>
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<td>Scientific Session VI-A</td>
<td>How to build an academic career in pediatric radiology</td>
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<td>Scientific Session VII-A</td>
<td>Interventional oncology for local delivery of therapies</td>
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<td>16:00-17:20</td>
<td>Scientific Session VII-C</td>
<td>Imaging of pancreatitis in pediatrics</td>
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<td>17:25-17:45</td>
<td>Closing Ceremony</td>
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<td>20:30-23:00</td>
<td>Farewell Banquet</td>
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**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*

*Moderator: Monica Rebollo (Barcelona, Spain)*

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

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<tr>
<th>Time</th>
<th>Event Description</th>
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<tr>
<td>11:00-13:00</td>
<td><strong>WFPI PRE-COURSE COLLOQUIUM</strong>&lt;br&gt;Session II-A&lt;br&gt;Epidemics and pandemics – the role of the pediatric radiologist</td>
<td>TIZIANO 2</td>
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<td>11:00-11:20</td>
<td>New pediatric lung infections including COVID-19 pneumonia: what radiologists need to know&lt;br&gt;Edward Y. Lee (Boston, USA)</td>
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<td>11:20-11:40</td>
<td>Atypical chest infections and mimickers: interactive session&lt;br&gt;Winnie Chu (Hong Kong)</td>
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<td>11:40-12:00</td>
<td>The changing picture of HIV infections&lt;br&gt;Tracy Kilborn (Cape Town, South Africa)</td>
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<td>12:00-12:20</td>
<td>Malaria - when and how-to image&lt;br&gt;Omolola Atalabi (Ibadan, Nigeria)</td>
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<tr>
<td>12:20-12:40</td>
<td>ZIKA virus - experience from South America&lt;br&gt;Pedro Daltro (Rio de Janeiro, Brazil)</td>
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<tr>
<td>12:40-13:00</td>
<td>Discussion</td>
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<tr>
<td>11:00-13:00</td>
<td><strong>POSTMORTEM PRE-COURSE COLLOQUIUM</strong>&lt;br&gt;Session III-A&lt;br&gt;The basics</td>
<td>TIZIANO 1</td>
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<tr>
<td>11:00-11:25</td>
<td>Introduction to post mortem imaging symposium / workshop&lt;br&gt;Owen Arthurs (London, UK)</td>
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<td>11:25-11:50</td>
<td>Post mortem imaging for beginners - what, how, why&lt;br&gt;Susan Shelmerdine (London, UK)</td>
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<tr>
<td>11:50-12:15</td>
<td>Fetal imaging: intrauterine vs post mortem&lt;br&gt;Michael Aertsen (Leuven, Belgium)</td>
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<td>12:15-12:40</td>
<td>How to set up a service&lt;br&gt;Teresa Victoria (Philadelphia, USA)</td>
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<td>12:40-13:00</td>
<td>Discussion</td>
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</table>
### 11:00-13:00 CHILD ABUSE PRE-COURSE COLLOQUIUM

**Session IV-A**

**Bones (I)**

**Moderator:** Maria Raissaki (Iraklion, Greece)

- **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  
  M. Katherine 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**

**Moderator:** Daniel Gräfe (Leipzig, Germany)

- **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)

### 12:00-13:00 ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM

**Session V-D1**

**MR Urography**

**Moderators:** Maria Beatrice Damasio (Genoa, Italy)

- **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
## Sunday, October 10, 2021

### 14:15-15:45  FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM  
**Session I-B**  
**Moderators:** Brandon Brown (Indianapolis, USA), Lucia Manganaro (Rome, Italy)

**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?**  
**Moderator:** Dorothy Bulas (Washington, USA)

**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
Session IV-B
Body, blood & bones (II)

Moderator: Rick van Rijn (Amsterdam, The Netherlands)

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

Moderator: Joanna Kasznia-Brown (Bristol, UK)

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

Moderators: Antonio Napolitano (Rome, Italy)

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**  
*Moderator: Teresa Victoria (Philadelphia, 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 (Dublin, Ireland)

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

#### 16:15-17:45 WFPI PRE-COURSE COLLOQUIUM

**Session II-C**  
*Moderators: Joanna Kasznia-Brown (Bristol, UK)*

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 (supratentorial)
  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
Session IV-C
Evolving techniques

Moderator: ESPR/SPR

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

Moderator: 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

## CONCURRENT PRE-COURSE COLLOQUIA

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-10:00</td>
<td><strong>FETO-PLACENTAL IMAGING PRE-COURSE COLLOQUIUM</strong>&lt;br&gt;Session I-D</td>
<td>CARAVAGGIO</td>
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<td><em>Moderator: Marie Cassart (Brussels, Belgium)</em></td>
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</tbody>
</table>
| 8:30-8:55 | **Normal placenta imaging**  
Gabrielle Colleran (Dublin, Ireland) |                |
| 8:55-9:20 | **Abnormal placenta imaging**  
Mariana Meyers (Aurora, USA) |                |
| 9:20-10:00 | **Real time scrolling through cases**  
Gabrielle Colleran (Dublin, Ireland), Mariana Meyers (Aurora, USA) |                |
| 8:30-10:00 | **WFPI PRE-COURSE COLLOQUIUM**<br>Session II-D | TIZIANO 2      |
|          | *Moderator: Jonathan Zember (Washington, USA)* |                |
| 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**<br>Session III-D | TIZIANO 1      |
|          | *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** |                |
Monday, October 11, 2021

**8:30-10:00 CHILD ABUSE PRE-COURSE COLLOQUIUM**

Session IV-D

**Brain**

Moderator: Kshitij Mankad (London, UK)

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 (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), Antonio Napolitano (Rome, Italy)

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**

Moderator: Matthijs Van Osch (Leiden, The Netherlands)

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

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

Moderator: Brandon Brown (Indianapolis, USA),

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
Pediatric ultrasound – forgotten tool

Moderator: Ramy Mansour (Oxford, UK)

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  
Session IV-E  
Medico-Legal

**Moderator:** Adam Oates (Birmingham, UK)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>10:30-10:55</td>
<td>What do the lawyers want?</td>
<td>Joelle Moreno (Miami, USA)</td>
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<td>10:55-11:20</td>
<td>What does the judge want?</td>
<td>Claudia Maone (Naples, Italy)</td>
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<td>11:20-11:45</td>
<td>What does the radiologist want?</td>
<td>Adam Oates (Birmingham, UK)</td>
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<td>11:45-12:00</td>
<td>Discussion</td>
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#### 10:30-11:15 ADVANCED PEDIATRIC MRI PRE-COURSE COLLOQUIUM  
Session V-E1  
A physician’s guide to DTI

**Moderator:** Richard Jones (Atlanta, USA)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
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<tbody>
<tr>
<td>10:30-10:55</td>
<td>Choice of sequence and data analysis considerations details</td>
<td>Jacques Donald Tournier (London, UK)</td>
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<tr>
<td>10:55-11:15</td>
<td>Clinical trade offs: time spent versus information gained</td>
<td>Richard Jones (Atlanta, USA)</td>
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</table>

#### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:15-11:30</td>
<td>Recommended protocols for, and relative merits of, DSC and/or DCE</td>
<td>Zoltan Patay (Memphis, USA)</td>
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<tr>
<td>11:30-11:45</td>
<td>Protocols for DWI/DTI/DKI/multi-shell diffusion, APT, MT &amp; Spectroscopy</td>
<td>Zoltan Patay (Memphis, USA)</td>
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<td>11:45-12:00</td>
<td>Clinical assessment of treatment response</td>
<td>Marion Smits (Rotterdam, The Netherlands)</td>
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#### 12:00-13:00 Break
Monday, October 11, 2021

13:00-14:50  CATEGORICAL COURSE I-A
Neuro/head&neck: the essentials

Moderator: Felice D'Arco (London, UK)

13:00-13:18  Brain and spine ultrasound made simple
Maria Argyropoulou (Ioannina, Greece)

Kshtij Mankad (London, UK)

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

Moderator: Rajesh Krishnamurthy (Columbus, USA)

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 (Lausanne, Switzerland)

15:00-15:30  Break
### Monday, October 11, 2021

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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<tbody>
<tr>
<td>15:30-16:50</td>
<td><strong>CATEGORICAL COURSE II-A</strong></td>
<td><strong>TIZIANO 2</strong></td>
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<td><strong>Cardiac: the essentials</strong></td>
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<td><em>Moderator:</em> Christian Kellenberger (Zurich, Switzerland)</td>
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<td>15:30-15:46</td>
<td><strong>Congenital heart disease - removing the fear</strong> (for idiots/beginners/dummies)</td>
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<td>Lorna Browne (Aurora, USA)</td>
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<td>15:46-16:02</td>
<td><strong>Common congenital heart disease surgeries and their imaging</strong></td>
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<td>Christian Kellenberger (Zurich, Switzerland)</td>
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<td>16:02-16:18</td>
<td><strong>Vascular rings and slings</strong></td>
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<td>Aurelio Secinaro (Rome, Italy)</td>
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<td>16:18-16:34</td>
<td><strong>How to spot cardiac disease on chest radiographs (cases)</strong></td>
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<td>Eilish Twomey (Dublin, Ireland)</td>
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<td>16:34-16:50</td>
<td><strong>How to perform cardiac CT without sedation in neonates and infants</strong></td>
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<td>Taylor Chung (San Francisco, USA)</td>
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<td><strong>CATEGORICAL COURSE II-B</strong></td>
<td><strong>CARAVAGGIO</strong></td>
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<td><strong>Neuro/head&amp;neck: tips for specialists</strong></td>
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<td><em>Moderator:</em> Andrea Rossi (Genoa, Italy)</td>
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<td>15:30-15:46</td>
<td><strong>Spinal cord manifestations of inborn errors of metabolism and myelin disorders</strong></td>
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<td>Paul Caruso (Boston, USA)</td>
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<td>15:46-16:18</td>
<td><strong>Changing landscape of inherited white matter disease</strong></td>
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<td>Andrea Rossi (Genoa, Italy)</td>
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<td>16:18-16:34</td>
<td><strong>Advanced imaging techniques in pediatric head and neck</strong></td>
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<td>Mai-lan Ho (Columbus, USA)</td>
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<td>16:34-16:50</td>
<td><strong>Pediatric neuro: wild and crazy (cases)</strong></td>
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<td>Victoria Michelle Silvera (Rochester, USA)</td>
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<th>Time</th>
<th>Event</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:00-17:30</td>
<td><strong>Opening Ceremony and Guy Sebag Award</strong></td>
<td><strong>MICHELANGELO</strong></td>
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<td>Andrea Rossi (ESPR) and Damien Grattan-Smith (SPR)</td>
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<td>17:30-19:00</td>
<td><strong>Opening Lectures &amp; Round Table</strong></td>
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<td><em>Adjourn</em></td>
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<tr>
<td>19:00-22:00</td>
<td><strong>Welcome Reception</strong></td>
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</table>
Tuesday, October 12, 2021

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

8:00-9:30  CATEGORICAL COURSE III-A  
Musculoskeletal: the essentials  
ROOM: TIZIANO 2

Moderator: Robert Paul Guillerman (Houston, USA)

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  
ROOM: CARAVAGGIO

Moderator: Philippe Petit (Marseille, France)

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  
ROOM: MICHELANGELO

**Moderator:** Maarten Lequin (Utrecht, The Netherlands)

10:00-10:15  **Have we perfected basic brain imaging or is there something new to know?**  
Maarten Lequin (Utrecht, The Netherlands)

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 (USA), (2) Department of Radiology, Children’s Hospital of Philadelphia, Philadelphia (USA), (3) Department of Pathology and Laboratory Medicine, Children’s Hospital of Philadelphia, University of Pennsylvania, Philadelphia (USA), (4) Department of Radiology, Perelman School of Medicine, University of Pennsylvania, Philadelphia (USA)

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 (6), 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, Universita 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)
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)

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)

INTRANASAL DEXMEDETOMIDINE FOR SEDATION OF CHILDREN IN MRI-EXAMINATION.
Gabriella Lewis, Maria Liljeroth, Sandra Diaz (1, 2)
(1) Karolinska University Hospital, Stockholm (SWEDEN), (2) Skanes University Hospital, Lund (SWEDEN)

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)

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)

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 Children’s 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)

Can we improve our imaging protocols?
Orit Glenn (San Francisco, USA)
## Tuesday, October 12, 2021

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>10:00-11:45</td>
<td>SCIENTIFIC SESSION I-B: CARDIAC - 3D MR imaging of the fetal heart</td>
<td>TIZIANO 2</td>
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<tr>
<td>10:00-10:15</td>
<td>3D MR for early assessment of congenital heart disease</td>
<td>Mike Seed (Toronto, Canada)</td>
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<tr>
<td>10:15-10:30</td>
<td>SCIENTIFIC PAPERS</td>
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<tr>
<td>10:15-10:23</td>
<td>CHEST IMAGING IN CHILDREN WITH COVID-19, A SYSTEMATIC REVIEW</td>
<td>Monica Miranda Schaeubinger (1), Karen Ramirez Suarez (1), Jordan Rapp (1), David Saul (2), Kushaljit Sodhi (3), Savvas Andronikou (1)</td>
</tr>
<tr>
<td>10:23-10:31</td>
<td>CHEST IMAGING IN COVID-19 INFECTION IN CHILDREN: A DIAGNOSTIC CROSS-SECTIONAL STUDY</td>
<td>Mark Bishay (1), Richard Gagen (1), Zhia Lim (2), Lisa van Geyzel (2), Deepthi Jyothish (2), Simon McGuirk (1)</td>
</tr>
<tr>
<td>10:31-10:39</td>
<td>PREVALENCE AND PATTERN OF THROMBOEMBOLIC DISEASE IN PEDIATRIC PATIENTS WITH COVID-19</td>
<td>Ivey Royall, HaiThuy Nguyen, Marla Sammer</td>
</tr>
<tr>
<td>10:47-10:55</td>
<td>LOW DOSE LUNG CT – PUSHING FOR THE LOWEST RADIATION DOSE NECESSARY FOR ENSURING ADEQUATE DIAGNOSTIC IMAGE QUALITY IN CHILDREN</td>
<td>Michael Zellner (1), Sebastian Tschauner (4), Mathias S. Weyland (2), Gerd Lutters (3), Ismail Özden (3), Stephan Scheidegger (2), Christian Kellenberger (1)</td>
</tr>
</tbody>
</table>
Tuesday, October 12, 2021

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
Heynric Grotenhuis (Utrecht, The Netherlands)
Tuesday, October 12, 2021

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

Moderator: Brandon Brown (Indianapolis, USA)

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 FUNCTIONDECLINE IN INFANTS WITH CONGENITAL ANOMALIES OF THE KIDNEY AND URINARY TRACT
Bernarda Viteri (1,2,3), Mohamed Elsingergy (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, Children’s Hospital of Philadelphia, Philadelphia (USA), (2) Department of Radiology, Division of Body Imaging, Children’s Hospital of Philadelphia, Philadelphia (USA),
(3) Perelman School of Medicine, University of Pennsylvania, Philadelphia (USA),
(4) Department of Biostatistics, John Hopkins University Hospital, Baltimore (USA),
(5) Department of Urology, Children’s Hospital of Philadelphia, Philadelphia (USA),
(6) Department of Pediatrics, Division of Nephrology, Children’s Mercy Hospital, Kansas City (USA)
Tuesday, October 12, 2021

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 (USA)

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 Children’s Hospital, Hyderabad (India), (2) Rainbow Children’s 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)

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)
Tuesday, October 12, 2021

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

Moderator: ESPR/SPR

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

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 Frenaux (3), Delphine Guillemot (4), Matthieu Carton (8), Isabelle Aerts (2), François Doz (2), Gudrun Schlieermacher (2), Birgit Geoerger (9), Pablo Berlanga (9), Olivier Delatte (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 (l), Simon Männlin (l), Sebastian Gassenmaier (l), Steven Warmann (2), Cristian Urla (2), Michael Esser (l), Ilias Tsiflikas (l), Sergios Gatidis (l), Jürgen Schäfer (l)

(l) Department of diagnostic and interventional Radiology, Tübingen (GERMANY), (2) Pediatric Surgery and Urology, Tübingen (GERMANY)
Tuesday, October 12, 2021

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. Littooij (1,2), Thomas C. Kwee (3), Nelleke Tolboom (12), 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. Nievelstein (1,2)
(1) Department of Radiology and Nuclear Medicine, University Medical Centre Utrecht/Wilhelmina Children’s 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 Children’s 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)
Tuesday, October 12, 2021

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) Olghospital, 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, Amy Price, Joshua Taylor, Thomas McDonald, 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 (Genoa, Italy) and Damien Grattan-Smith (Atlanta, USA)
Lessons of a life as a pediatric radiologist
Paolo Tomà (Rome, Italy)

14:15-15:15  CATEGORICAL COURSE IV-A
Gastrointestinal: the essentials
Moderator: Giulia Perucca (Turin, Italy)
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)
Giulia Perucca (Turin, Italy)

BACK TO INDEX
Tuesday, October 12, 2021

14:15-15:15  CATEGORICAL COURSE IV-B
Musculoskeletal: tips for specialists  
Moderator: Lil-Sofie Ording Muller (Oslo, Norway)

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?
Moderator: Pierluigi Ciet (Rotterdam, The Netherlands)

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 (USA), (2) University of Pennsylvania, Perelman School of Medicine, Philadelphia (USA)

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 Children’s 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)
Tuesday, October 12, 2021

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

Moderator: Christian Kellenberger (Zurich, Switzerland)

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 Vasanawala
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 (USA), (2) Perelman School of Medicine, University of Pennsylvania, Philadelphia (USA), (3) Department of Anesthesiology and Critical Care Medicine, Children’s Hospital of Philadelphia, Philadelphia (USA)
**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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Description</th>
<th>Room</th>
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<tbody>
<tr>
<td>15:50-16:50</td>
<td><strong>SCIENTIFIC SESSION II-C: WORKING TOGETHER - Celebrating the 10th Anniversary of the WFPI</strong></td>
<td>TIZIANO 1</td>
</tr>
</tbody>
</table>

*Moderator: Joanna Kasznia-Brown (Bristol, UK)*

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

07:00-17:00 Cases of the Day
Moderators: Neil Johnson (Cincinnati, USA), Aurelio Secinaro (Rome, Italy)

NO CME ACCREDITATION
### Sunrise Session I-A: Education

**Moderator:** Cynthia Rigsby (Chicago, USA)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:30-7:55</td>
<td>Reviewing for pediatric radiology</td>
<td>Peter Strouse (Ann Arbor, USA)</td>
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<tr>
<td>7:55-8:20</td>
<td>Statistics for reading or writing a scientific publication: what a pediatric radiologist should know</td>
<td>Øystein Olsen (London, UK)</td>
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**Room:** Michelangelo

### Sunrise Session I-B: Nuclear Medicine

**Moderator:** Victor J. Seghers (Houston, USA)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:30-7:55</td>
<td>How to optimize nuclear medicine techniques in children</td>
<td>Hedieh Khalatbari (Seattle, USA)</td>
</tr>
<tr>
<td>7:55-8:20</td>
<td>Use of 18F-DOPA PET/CT in children with hyperinsulinism</td>
<td>Lisa States (Philadelphia, USA)</td>
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**Room:** Tiziano 2

### Sunrise Session I-C: Musculoskeletal

**Moderator:** ESPR/SPR

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tr>
<td>7:30-7:55</td>
<td>Image-guided MSK interventions</td>
<td>Sarah Menashe (Seattle, USA)</td>
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<tr>
<td>7:55-8:20</td>
<td>Contrast enhanced ultrasound for evaluation of hip dysplasia/AVN</td>
<td>Harriet Paltiel (Boston, USA)</td>
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</table>

**Room:** Tiziano 1
## Wednesday, October 13, 2021

### 8:30–10:00  CATEGORICAL COURSE V-A  
**Genitourinary: the essentials**  
**Room:** TIZIANO 2

**Moderator:** Marie Cassart (Brussels, Belgium)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
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<tbody>
<tr>
<td>8:30–8:50</td>
<td><strong>UTD refresher</strong> Maria Cassart (Brussels, Belgium)</td>
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<tr>
<td>8:50–9:10</td>
<td><strong>Don't be confused: common congenital GU anomalies</strong> Veronica Rooks (Honolulu, USA)</td>
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<tr>
<td>9:10–9:30</td>
<td><strong>Imaging of the pelvis: when is US enough</strong> Maria Luisa Lobo (Lisbon, Portugal)</td>
</tr>
<tr>
<td>9:30–9:50</td>
<td><strong>STAT! Emergencies you can't miss (cases)</strong> Patricia Acharya (Loma Linda, USA)</td>
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### 8:30–10:00  CATEGORICAL COURSE V-B  
**Interventional: tips for specialists**  
**Room:** CARAVAGGIO

**Moderator:** Ryne Didier (Philadelphia, USA)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>8:30–8:50</td>
<td><strong>Cryoablation, microwave, RFA: when, where, why ?</strong> João Amaral (Toronto, Canada)</td>
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<tr>
<td>8:50–9:10</td>
<td><strong>Inflammatory vs noninflammatory arterial stenosis: how and when to treat?</strong> Premal Patel (London, UK)</td>
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<td>9:10–9:30</td>
<td><strong>Fetal vascular tumors: role of IR</strong> Josee Dubois (Montreal, Canada)</td>
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<td>9:30–9:50</td>
<td><strong>Difficult cases or TEN commandments in IR - case experience</strong> Ralph Gnannt (Zurich, Switzerland)</td>
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### 10:00–10:30  Break

### 10:30–11:30  CATEGORICAL COURSE VI-A  
**Interventional: the essentials**  
**Room:** TIZIANO 2

**Moderator:** Anne Elizabeth Gill (Atlanta, USA)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:30–10:45</td>
<td><strong>To drain or not to drain, and how!</strong> Julian Jürgens (Hamburg, Germany)</td>
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<tr>
<td>10:45–11:00</td>
<td><strong>Vascular malformations, practical approach</strong> Premal Patel (London, UK)</td>
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<tr>
<td>11:00–11:15</td>
<td><strong>Biliary intervention: tricks</strong> Anne Elizabeth Gill (Atlanta, USA)</td>
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<tr>
<td>11:15–11:30</td>
<td><strong>Renovascular disease - an update</strong> Anne Marie Cahill (Philadelphia, USA)</td>
</tr>
</tbody>
</table>
Wednesday, October 13, 2021

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

    Moderator: Kassa Darge (Philadelphia, USA)

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

    Moderator: Maarten Lequin (Utrecht, The Netherlands)

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) Children’s 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), Tolik Akhadoy (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 PAPILLEDEMA 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)
12:38-12:46  IMAGING OF PEDIATRIC SPINAL CORD INFARCT ASSOCIATED WITH FIBROCARTILAGINOUS 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), Eleonora Piccirilli (3), 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), (5) Department of Neuroscience, Imaging and Clinical Science, University “G. D’Annunzio” of Chieti, Chieti

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
ROOM: TIZIANO 2

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, Pennsylvania 19104 (USA), (2) Division of Cardiology, Children’s Hospital of Philadelphia, Pennsylvania 19104 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), Tiphanie 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
Moderator: Fred Avni (Brussels, Belgium)

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. Nievelstein (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. Littooij (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)
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 (USA)

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 (6)
(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)

FEASIBILITY OF QUANTITATIVE ASSESSMENT OF RENAL FUNCTION USING MOTION-INSSENSITIVE 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, NewYork (USA), (4) Boston Children’s Hospital - Radiology, Boston (USA)

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 Radiodiagnosics, 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 (Dublin, Ireland)

11:35-11:50  Pitfalls and errors in pediatric oncologic imaging
Kieran McHugh (London, UK)
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 Children’s Hospital - Diagnostic and Interventional Imaging, Singapore (SINGAPORE), (2) KK Womens and Children’s 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)
Wednesday, October 13, 2021

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. Littooij (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  Adjourn

07:00-17:00  Cases of the Day
Moderators: Neil Johnson (Cincinnati, USA), Aurelio Secinaro (Rome, Italy)
NO CME ACCREDITATION
Thursday, October 14, 2021

7:00-18:00  Registration

7:30-8:20  SUNRISE SESSION II-A  
**Technology & AI**  
ROOM: MICHELANGELO

*Moderator: Lil-Sofie Ording Muller (Oslo, Norway)*

7:30-7:55  **Deep Learning and AI in abdominal imaging**  
Jonathan Dillman (Cincinnati, USA)

7:55-8:20  **Deep learning algorithms for detection of pediatric chest pathology**  
Evan Zucker (California, USA)

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

*Moderator: Laura Fenton (Aurora, USA)*

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 II-C  
**Radioprotection**  
ROOM: TIZIANO 1

*Moderator: Erich Sorantin (Graz, Austria)*

7:30-7:55  **Radiation protection issues in nuclear medicine: an update**  
Raymond Benton Pahlka (Texas, USA)

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**  
**Moderator:** Annemieke Littooij (Utrecht, The Netherlands)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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| 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

**Thoracic: tips for specialists**  
**Moderator:** Lil-Sofie Ording Muller (Oslo, Norway)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 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?**

**Moderator:** Kshitij Mankad (London, UK)

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, Sara Reis Teixeira, Cesar Augusto Alves, Fabrício Gonçalves, Martin Kidd, Colleen Muraresku, Amy Goldstein, Arastoo Vossough  
(1) Division of Neuroradiology, Department of Radiology, Children’s Hospital of Philadelphia, Philadelphia (USA), (2) Department of Pediatrics, St. Christopher’s Hospital for Children, Philadelphia (USA), (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 (USA), (6) Department of Pediatrics, University of Pennsylvania Perelman School of Medicine, Philadelphia (USA), (7) Department of Radiology, University of Pennsylvania Perelman School of Medicine, Philadelphia (USA)
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 (5), Maria Alessio (6), 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/Esposho 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 Ges, 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 Margerita 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), Aoiibhinn 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)
Thursday, October 14, 2021

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
Moderator: Rutger-Jan Nievelstein (Utrecht, The Netherlands)

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

10:45-11:40 SCIENTIFIC PAPERS

10:45-11:53 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 Children's Research Hospital, Memphis (USA), (2) Siemens Healthineers, Malvern (USA), (3) Ann & Robert H Lurie Children's Hospital of Chicago, Chicago (USA), (4) Children’s 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) Children’s Hospital of Philadelphia, Philadelphia (USA), (8) Penn State Children’s Hospital, Hershey (USA)
Thursday, October 14, 2021

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 Children's 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) Children's 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)
Thursday, October 14, 2021

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
ROOM: TIZIANO 1

Moderator: Willemijn M. Klein (Nijmegen, The Netherlands)

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)
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), Tiphanie 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

ROOM: CARAVAGGIO

Moderator: Maria Carmen Garganese (Rome, Italy)

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, Tübingen (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 Dandrupl
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. Littooij (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 Children’s 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
Moderator: Damien Grattan-Smith (Atlanta, USA)
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); 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)
### Thursday, October 14, 2021

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:20-16:20</td>
<td>CATEGORICAL COURSE VIII-A</td>
<td>TIZIANO 2</td>
</tr>
<tr>
<td></td>
<td>Thoracic: the essentials</td>
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<td>15:20-15:35</td>
<td>Neonatal chest imaging: old fashioned cookies with new sprinkles</td>
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<td>Mark Liszewski (Bronx, USA)</td>
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<td>15:35-15:50</td>
<td>Congenital malformations of lungs and airways</td>
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<td>Eleonore Blondiaux (Paris, France)</td>
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<td>15:50-16:05</td>
<td>Chest wall masses</td>
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<td>Annie Paterson (Belfast, UK)</td>
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<td>16:05-16:20</td>
<td>Pediatric chest &quot;must know diagnoses&quot; (cases)</td>
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<td>Winnie Chu (Hong Kong)</td>
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<td>15:20-16:20</td>
<td>CATEGORICAL COURSE VIII-B</td>
<td>CARAVAGGIO</td>
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<td>Oncology: tips for specialists</td>
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<td>15:20-15:35</td>
<td>Contrast enhanced ultrasound as a problem solving tool in pediatric oncology</td>
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<td>Beth McCarville (Memphis, USA)</td>
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<td>15:35-15:50</td>
<td>AI in pediatric oncologic imaging</td>
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<td>Heike Daldrup-Link (Stanford, USA)</td>
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<td>15:50-16:05</td>
<td>Tumors in syndromes: what is important, when to screen</td>
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<td>Ellen Chung (Columbus, USA)</td>
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<td>16:05-16:20</td>
<td>Tumor or not (tumors vs their mimics; cases)</td>
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<td>Maria Raissaki (Iraklion, Greece)</td>
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<td>16:20-16:50</td>
<td>Break</td>
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### Thursday, October 14, 2021

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

*Moderator: ESPR/SPR*

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>16:50-17:05</td>
<td>Current state of artificial intelligence tools in pediatric radiology: how can we improve our workflow?</td>
<td>Safwan Halabi (Stanford, USA)</td>
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<tr>
<td>17:05-17:45</td>
<td><strong>SCIENTIFIC PAPERS</strong></td>
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</table>
| 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), Gabrielle Colleran (1),  
                | St Vincents University Hospital, Dublin (IRELAND), Insight @ UCD, Dublin (IRELAND),  
                | 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 (USA)                                                     |
| 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)  
                | Department of Radiology, The Children’s Hospital of Philadelphia, Philadelphia (USA),  
                | University of Pennsylvania School of Medicine, Philadelphia (USA),  
                | Department of Radiology, Perelman School of Medicine, University of Pennsylvania, Philadelphia (USA) |
Thursday, October 14, 2021

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

Moderator: Maria Raissaki (Irkllion, Greece)

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

Moderator: Jean-Francois Chateil (Bordeaux, France)

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 RHABDOMYSARCOMA
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, Massachussets, USA, Boston (USA), (4) Neuroradiology Department, Santobono Children’s 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)
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 Khrenchko (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 (USA), (2) Department of Radiology, Division of Body Imaging, The Children’s Hospital of Philadelphia, Philadelphia (USA), (3) Department of Pathology and Laboratory Medicine, Perelman School of Medicine, University of Pennsylvania, Philadelphia (USA), (4) Department of Radiology, Perelman School of Medicine, University of Pennsylvania, Philadelphia (USA)

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)

How to optimize detection of late effects, new techniques, or methods

Chang Y. Ho (Indianapolis, USA)

THURSDAY, OCTOBER 14, 2021

17:26-17:33

17:33-17:40

17:45-18:00

16:50-17:05

17:05-17:45

17:05-17:12
Thursday, October 14, 2021

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 (USA), (2) Vanderbilt School of Medicine, Nashville, Tennessee (USA)

17:45-18:00  Hot issues and new frontiers in theranostics in children
Andrew Trout (Cincinnati, USA)

18:00  Adjourn

07:00-17:00  Cases of the Day
Moderators: Neil Johnson (Cincinnati, USA), Aurelio Secinaro (Rome, Italy)
NO CME ACCREDITATION
Friday, October 15, 2021

7:00-17:30  Registration

7:30-8:20  SUNRISE SESSION III-A
Body imaging  ROOM: MICHELANGELO

Moderator: Teresa Victoria (Philadelphia, USA)

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 III-B
MRI  ROOM: TIZIANO 2

Moderator: Daniel Gräfe (Leipzig, Germany)

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 III-C
Chest  ROOM: TIZIANO 1

Moderator: Robert Paul Guillerman (Houston, USA)

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  ROOM: TIZIANO 2

Moderator: 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)
# Categorical Course IX-B

**Imaging strategies: tips for specialists**

**Moderator:** Owen Arthurs (London, UK)

- **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**

**Scientific Session VI-A**

**Junior IPR Session**

**How to build an academic career in pediatric radiology**

**Moderator:** Laura Fenton (Aurora, USA)

- **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

Moderator: Hansel Otero (Philadelphia, USA)

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?

(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, Rida Salman, 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)
Friday, October 15, 2021

10:30-11:55  SCIENTIFIC SESSION VI-C: MUSCULOSKELETAL - New developments in MSK imaging  
ROOM: TIZIANO 1

Moderator: Karen Rosendahl (Tromsø, Norway)

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 Children’s 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 Children’s NHS Foundation Trust, Liverpool (UNITED KINGDOM), (11) Birmingham Womens and Children’s 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)
Friday, October 15, 2021

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 (Genoa, Italy)
Friday, October 15, 2021

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

Moderator: Catherine Garel (Paris, France)

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), Vergheese 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)
Friday, October 15, 2021

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 (USA), (2) GE Healthcare, MR Applications and Workflow, Calgary (CANADA), (3) GE Healthcare, Magnetic Resonance, Madison, WI (USA)

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)

12:00-13:30 ESPR General Assembly

13:00-14:00 Lunch
**Friday, October 15, 2021**

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

*Room: Michelangelo*

**Moderator:** Jim Donaldson (Chicago, USA)

**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 ABSCESS 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)
### Friday, October 15, 2021

**15:00-15:07**  
**THE PEDIATRIC INTERVENTIONAL RADIOLOGY EXPERIENCE: PERSPECTIVE OF PATIENT FAMILIES**  
Maria Velez-Florez, 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 (USA)*

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

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| **14:10-15:30** | SCIENTIFIC SESSION VII-B:  
**GASTROINTESTINAL - IT IS NOT JUST ABOUT THE HEART:**  
**GI pathology in children with congenital cardiovascular disease** | | Moderator: ESPR/SPR |
| **14:10-14:25** | **State of the art** | | Charlotte De Lange ((Gothenburg, Sweden)) |
| **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 Dikkers (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)  
Friday, October 15, 2021

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  
Moderator: Ola Kvist (Stockholm, Sweden)

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, Children’s Hospital of Philadelphia, Philadelphia (USA), (2) University of Pennsylvania School of Medicine, Philadelphia, Philadelphia (USA), (2) Division of Orthopedic Surgery, Children’s Hospital of Philadelphia, Philadelphia (USA)
Friday, October 15, 2021

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 Children’s Hospital - Department of Radiology, Toronto (CHINA), (2) Chengdu Women’s and Children’s 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 Children’s Hospital - Hematology/Oncology Center, Beijing (CHINA), (10) Nanfang Hospital - Department of Hematology, Guangzhou (CHINA), (11) Children’s 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 Zalcman, Sarah Harris, Erika Rubesova
Lucile Packard Children’s Hospital, Department of Pediatric Radiology, Stanford University, Stanford (USA)
Friday, October 15, 2021

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 (1,5)
(1) Karolinska Institute, Department of Womens and Children’s Health, Stockholm (SWEDEN), (2) Blekinge Institute of Technology, Department of Healt, Karlskrona (SWEDEN), (3) Örebro University, School of Meical Science, Örebro (SWEDEN), (4) Skövde University, Department of Health, Skövde (SWEDEN), (5) Lunds University, Department of Clinical Science, 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), Diego Jaramillo (2), Tal Laor (1)
(1) Boston Children’s Hospital, Harvard Medical School, Boston (USA), (2) Morgan Stanley Children’s Hospital, Columbia University, New York (USA)

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
Moderator: Brandon Brown (Indianapolis, USA)

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 (USA), (2) Boston Children’s Hospital - Department of Psychiatry, Boston (USA), (3) Boston Children’s Hospital - Department of Developmental Medicine, Boston (USA), (4) Boston Children’s Hospital - Department of Neurology, Boston (USA)
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) Children’s 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)
Friday, October 15, 2021

15:30-16:00  Break

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

Moderator: 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 Berazaluce, Nicole Hilvert, Daniel von Allmen
Cincinnati Children’s Hospital Medical Center, Departments of Radiology and Surgery, Cincinnati, OH (USA)

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 (USA), (2) Children’s Hospital of Philadelphia, Division of Cardiology, Philadelphia (USA)

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)
Friday, October 15, 2021

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
Moderator: Damjana Ključevšek (Ljubljana, Slovenia)

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 Children’s Hospital, Boston (USA)

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 Children’s Hospital -Department of Radiology, Leeds (UNITED KINGDOM)
Friday, October 15, 2021

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 Children’s 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**

**Moderator:** Philippe Petit (Marseille, France)

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)*
16:47-16:55 PROSPECTIVE STUDY OF QUANTITATIVE MRI IN CYSTIC FIBROSIS LIVER DISEASE: FEASIBILITY AND COMPARISON TO ULTRASOUND
Towbin Alexander (1), Wen Ye (2), Suiyuan Huang (2), Jean Molleston (3), Boaz Karmazyn (4), Prakash Masand (5), Daniel Leung (6), Samuel Chang (7), Michael Narkewicz (8), Adina Alazraki (9), Alvin Freeman (10), Randolph Otto (11), Nicole Green (12), Vikrom Karansakul (13), Ihab Kamel (14), John Magee (15), Joseph Palermo (16)

(1) Department of Radiology, Cincinnati Children’s Hospital, Cincinnati (USA), (2) Department of Biostatistics, University of Michigan, Ann Arbor (USA), (3) Pediatric Gastroenterology, Hepatology and Nutrition, Indiana University School of Medicine Riley Hospital for Children, Indianapolis (USA), (4) Department of Pediatric Radiology, Riley Hospital for Children, Indianapolis (USA), (5) Department of Radiology, Texas Children’s Hospital, Houston (USA), (6) Division of Gastroenterology, Hepatology and Nutrition, Texas Children’s Hospital, Houston (USA), (7) Department of Radiology, University of Colorado, Aurora (USA), (8) Section of Pediatric Gastroenterology, Hepatology and Nutrition, Department of Pediatrics, University of Colorado SOM, Aurora (USA), (9) Department of Radiology, Children’s Hospital of Atlanta, Atlanta (USA), (10) Division of Pediatric Gastroenterology, Hepatology and Nutrition, Emory University School of Medicine, Atlanta (USA), (11) Department of Radiology, Seattle Children’s Hospital, Seattle (USA), (12) Division of Gastroenterology and Hepatology, Seattle Children’s Hospital and University of Washington, Seattle (USA), (13) Division of Gastroenterology and Hepatology, Johns Hopkins University School of Medicine, Baltimore (USA), (14) Department of Radiology, Johns Hopkins University School of Medicine, Baltimore (USA), (15) Department of Surgery, University of Michigan, Ann Arbor (USA), (16) Division of Gastroenterology, Hepatology and Nutrition, Cincinnati Children’s Hospital, Cincinnati (USA)

16:55-17:03 PRE- AND POST-OPERATIVE SONOGRAPHIC ASSESSMENT OF PORTAL VEIN FLOW IN A PEDIATRIC COHORT AFTER TOTAL PANCREATECTOMY WITH ISLET CELL AUTO-TRANSPLANTATION
Adam Yen (1), Andrew Posselt (2), Emily Perito (3), Matthew Zapala (1)

(1) University of California, San Francisco, Department of Radiology and Biomedical Imaging, San Francisco (USA), (2) University of California, San Francisco, Department of Surgery, Division of Transplant Surgery, San Francisco (USA), (3) University of California, San Francisco, Department of Pediatrics, Division of Pediatric Gastroenterology, San Francisco (USA)

17:05-17:20 New pathways to examine biliary disease
Michael Callahan (Boston, USA)
Friday, October 15, 2021

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

Moderator: Lucia Manganaro (Rome, Italy)

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

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 (AUSTRALIA), (4) Dept Diagnostic and Interventional Radiology and Nuclear Medicine, University Hospital Hamburg-Eppendorf, Hamburg (GERMANY), (5) northm 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), Gaurav Jategaonkar (3)  
(1) Phoenix Children’s Hospital -Department of Radiology, Phoenix (USA), (2) Phoenix Children’s Hospital - Department of Cardiology, Phoenix (USA), (3) Arizona State University, Tempe, AZ. (USA)

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)
Friday, October 15, 2021

16:47-16:55  EVOLUTION OF THE T1-WEIGHTED SIGNAL OF THE FETAL LIVER DURING PREGNANCY
Max Zalcman, 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

07:00-17:00  Cases of the Day
  Moderators: Neil Johnson (Cincinnati, USA), Aurelio Secinaro (Rome, Italy)
  NO CME ACCREDITATION
SPEAKERS READY ROOM
Presentations should be delivered to the Speakers Ready Room the day before your session or at least two hours before the beginning of the session. The recommended format for PPT presentations is 16:9.

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Registered Virtual Attendees October 11-15: they access live sessions and all the meeting information from October 10 evening + congress on demand
For the **following access**, insert your **USERNAME** and **PASSWORD** and click on **LOGIN**.

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E-POSTERS
to see all the posters submitted (no discussion is foreseen)

ON DEMAND
in this area will be uploaded all the scientific sessions, 48 hours after the live streaming. From this area it is possible to send messages/comments to the speakers and they can reply if interested. The content is public and will be available until the on demand area is open (1 year after the congress). Please note that no alert is foreseen therefore you are kindly requested to enter the platform sometimes and check if your question has been answered

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In the showreel at the top of the page will be posted important info/breaking news about the congress, stay tuned!
BE CONNECTED
Wi-fi is available for Congress participants throughout the public areas of the venue. Click the IPR21ITALY for net and password to access the free wi-fi.

OPENING CEREMONY & WELCOME RECEPTION
Monday, October 11 – 17:00
The Opening Ceremony is the official starting point of the Congress. All participants are invited to the Room Michelangelo. It will be followed by a Welcome Reception in the Exhibition area.

REFRESHMENTS
Coffee and lunch box will be served to Congress participants in the Exhibition Area. A cash bar will be available at Lobby of the Hotel. Dinner can be reserved at the Marriott Restaurant.

FAREWELL BANQUET
Friday October 15 - 20:30
The enjoyable International evening will be held in one of the most beautiful location in Rome, Casina di Macchia Madama. Music and dancing will make this evening a special souvenir for the Congress guests. Tickets are subject to availability.

CLOAKROOM
A cloakroom is available according to the scientific schedule of the Congress. The cloakroom is available for medium or oversize deposit only and is located in Tiziano Foyer. Due to Covid restrictions participants are kindly requested not to leave their personal belongings.

ORGANIZING SECRETARIAT
AIM Group International – Milan Office
Via G. Ripamonti, 129 – 20141 Milan, Italy
Ph +39 02 566011 – fax +39 02 70048578
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**EDUCATIONAL POSTER**

**Poster: EDU-001**

BRITISH SOCIETY OF PAEDIATRIC RADIOLOGY ANNUAL MEETING (2020): THE TRANSITION FROM A VENUE-BASED TO A VIRTUAL CONFERENCE AND LESSONS LEARNED FOR THE FUTURE

Nageena Suleman, Mark Bishay, Emily Evans, Ulya Malik, Fatemeh Hadian, William Hedges, Sana Ali, Hiten Patel, Manigandan Thyagarajan, Adam Oates, Samantha Low

*Birmingham Children’s Hospital, Birmingham, UNITED KINGDOM*

**Poster: EDU-002**

“HOW TO REVIEW THE PAEDIATRIC RADIOLOGY ARTIFICIAL INTELLIGENCE EVIDENCE USING THE PICO/DATO METHOD”

Brendan Kelly 1, Gabrielle Colleran 2, Sibohan Hoare 2, Aonghus Lawlor 3, Ronan Killeen 1

1 St Vincents University Hospital, Dublin, IRELAND
2 CHI @ Temple Street, Dublin, IRELAND
3 Insight @ UCD, Dublin, IRELAND

**Poster: EDU-003**

ADVANCED CARDIOVASCULAR COMPUTED TOMOGRAPHY (CT) IMAGING IN CHILDREN WITH CONGENITAL VARIANTS AND ANOMALIES OF THE AORTIC ARCH: FROM VOLUME RENDERING (VR) TO 3D MODELS AND 3D PRINTING

Flavio Zuccarino 1, María Clara Escobar-Diaz 2, Alex Perez 2, María Navallas 3, Ignaci Barber 4, Bosco Alejandro Moscoso 5, Congiu Stefano 3, Jose Maria Caffarena 5, Salvatore Marsico 6, Fredy Prada 2, Juan Manuel Carretero 2, Joan Sanchez De Toledo 2, Javier Mayol 5, Ferran Pifarre 4, Irene Gomez 4, Laura Acosta 7, Arnau Valls 8, Enrique Ladera 4, Josep Munuera 4

1 Hospital Sant Joan de Deu, Department of Radiology and Hospital del Mar, Chief of Cardiothoracic Radiology, Barcelona, SPAIN
2 Hospital Sant Joan de Deu, Department of Cardiology, Barcelona, SPAIN
3 Hospital 12 de Octubre, Department of Radiology, Madrid, SPAIN
4 Hospital Sant Joan de Deu, Department of Radiology, Barcelona, SPAIN
5 Hospital Sant Joan de Deu, Department of Cardiovascular Surgery, Barcelona, SPAIN
6 Hospital del Mar, Department of Radiology, Barcelona, SPAIN
7 Children’s Hospital of Eastern Ontario, Department of Radiology, Ottawa, CANADA
8 Hospital Sant Joan de Deu, 3 D Printing Unit, Barcelona, SPAIN

**Poster: EDU-004**

CONGENITAL ABSENCE OF THE PERICARDIUM

Beverley Newman

*Stanford Childrens Hospital at Stanford University, Stanford, USA*

**Poster: EDU-005**

UNTWISTING ARTERIAL TORTUOSITY SYNDROME

Gurdeep Mann 1, Sandra Abusamaan 2, Saad Saeed 3

1 Sidra Medicine - Department of Radiology, Doha, QATAR
2 Hamad General Hospital - Clinical Imaging, Doha, QATAR
3 Sidra Medicine - Heart Center, Doha, QATAR
Poster: EDU-006
SEGMENTAL ANALYSIS OF COMPLEX CONGENITAL HEART DISEASE: AN ODE TO CARDIAC IMAGING
Neetika Gupta 1, Laura Acosta-Izquierdo 1, Derek Wong 2, Jorge Davila 1
1 Department of Medical Imaging, CHEO, University of Ottawa, Ottawa, CANADA
2 Department of Pediatric Cardiology, CHEO, University of Ottawa, Ottawa, CANADA

Poster: EDU-007
MOCK ENDOVASCULAR STENTING AND COMPUTED TOMOGRAPHY OF A DISTENSIBLE 3D MODEL FOR COMPLEX CONGENITAL HEART DISEASE
Kenneth Cheung 1, Sima Zakani 2, John Jacob 2, Eimear Mcgovern 2, Martin Hosking 2, John Mawson 1, Gordon Culham 1
1 Department of Radiology, University of British Columbia, Vancouver, CANADA
2 Department of Paediatrics, University of British Columbia, Vancouver, CANADA

Poster: EDU-008
3D PRINTED CARDIAC MAGNETIC RESONANCE IMAGING TRAINING PHANTOM WITH RESPIRATORY SIMULATION
Kenneth Cheung 1, Carol Wing-Ki Ng 2, Mei-Yu Poon 2, Wai-Siu Kwok 3, Ka-Ho Leung 3, Chui-Kin Lau 3, Francis Lee 3, Madeleine Lam 3, Tiffany Chung 3, Nam-Hung Chia 3, Eric So 3, George Ng 3, Elaine Kan 2
1 University of British Columbia, Vancouver, CANADA
2 Hong Kong Childrens Hospital, Hong Kong, HONG KONG
3 Queen Elizabeth Hospital, Hong Kong, HONG KONG

Poster: EDU-009
DYNAMIC 4D AIRWAY CT: ACCOUNTING FOR VARIATIONS IN VENTILATION, POSITION, AND OTHER FACTORS IN INTERPRETATION AND OPTIMIZATION OF DIAGNOSTIC UTILITY
Elizabeth Tang, Erin Romberg, Sarah Menashe, Francisco Perez, Jeffrey Otjen
Seattle Children’s Hospital - Department of Radiology, Seattle, USA

Poster: EDU-010
RADIOLOGIC FINDINGS IN THE VITAMIN K DEFICIENT INFANT
Emily Haas 1, Asha Sarma 1, Rekha Krishnasarma 1, Alexandra Borst 2, Elizabeth Snyder 1
1 Monroe Carell Jr. Children’s Hospital at Vanderbilt Department of Pediatric Radiology, Nashville, TN, USA
2 Monroe Carell Jr. Children’s Hospital at Vanderbilt Department of Pediatric Hematology/Oncology, Nashville, TN, USA

Poster: EDU-011
CONGENITAL PERIPHERAL PULMONARY ARTERY ANOMALIES, SYNDROME ASSOCIATIONS - CT AND MR IMAGING
Beverley Newman
Stanford Childrens Hospital at Stanford University, Stanford, USA

Poster: EDU-012
PEDIATRIC THORACIC MASSES: A PICTORIAL REVIEW
Evangelos Mourtos 1, Eva Penno 1, Sandra Diaz Ruiz 2
1 Dept of Radiology, Akademiska University Hospital, Uppsala, SWEDEN
2 Dept of Pediatric Radiology, New Karolinska University Hospital, Stockholm, SWEDEN
Poster: EDU-013
HIGH-RESOLUTION COMPUTED TOMOGRAPHY IN CHILDHOOD INTERSTITIAL LUNG DISEASE: A HISTOLOGY-BASED APPROACH
Laura Martelius 1, Päria Miraftabi 1, Jouko Lohi 2, Turkka Kirjavainen 3
1 HUS Medical Imaging Center, Radiology, University of Helsinki and Helsinki University Hospital, Helsinki, FINLAND
2 Department of Pathology, University of Helsinki and Helsinki University Hospital, Helsinki, FINLAND
3 Department of Pediatrics, Children’s Hospital, University of Helsinki and Helsinki University Hospital, Helsinki, FINLAND

Poster: EDU-014
SARS-COV-2 INFECTION IN CHILDREN: REVIEW OF IMAGING FINDINGS
Divya Kishore 1, Ashishkumar Parikh 1,2, Erica Riedesel 1,2, Edward Richer 1,2
1 Department of Radiology and Imaging Sciences, Emory University School of Medicine, Atlanta, USA
2 Department of Radiology, Children’s Healthcare of Atlanta, Atlanta, USA

Poster: EDU-015
LOW DOSE DYNAMIC CHEST CT FOR DETERMINATION OF OPTIMAL VENTILATION PEEP VALUES
Harutyun Haroyan, Darragh Brady, Jane Kim, Narendra Shet
Children’s National Medical Center, Washington, DC, USA

Poster: EDU-018
NON-NEOPLASTIC MEDIASTINAL MASSES IN PEDIATRICS
Hiral Banker, Preet Sandhu
Le Bonheur Children’s Hospital, University of Tennessee, Memphis, USA

Poster: EDU-020
UNVEIL THE THYMUS SAIL
Reema Agarwal 1, Joshua Wermers 2, Rachel Berkovich 2
1 SSM Saint Louis University Hospital - Department of Diagnostic Radiology, St. Louis, USA
2 SSM Cardinal Glennon Hospital - Department of Pediatric Radiology, St. Louis, USA

Poster: EDU-021
IMAGING OF MALIGNANT PEDIATRIC CHEST MASSES
Kumar Shashi, Stephan Voss
Boston Childrens Hospital, Boston, USA

Poster: EDU-022
CHALLENGES WITH PEDIATRIC CENTRAL VENOUS CATHETER STUDIES: 10-YEAR EXPERIENCE AT A LARGE TERTIARY PEDIATRIC HOSPITAL
Kumar Shashi, Michael Callahan, Andy Tsai
Boston Childrens Hospital - Department of Radiology, Boston, USA
Poster: EDU-023
DEVELOPMENT AND IMPLEMENTATION OF A TRANSPARENT ORIGAMI FACE MASK FOR PATIENT AND FAMILY CENTERED CARE
MARCIA Velez-Florez, ELIZABETH Silvestro, BRITTANY Bennett, ETHAN Larsen, ERIN Pohl, RAYMOND Sze
The Children’s Hospital of Philadelphia, Philadelphia, USA

Poster: EDU-024
PANCREATIC AND THYROID INTRAGLANDULAR FATTY TISSUE: PAY ATTENTION TO AVOID THE SONOGRAPHIC DIAGNOSTIC TRAP!
Marina Vakaki 1, Rodanthi Sfakiotaki 1, Anna Chountala 1, Despina Pitsoulaki 1, Eleni Koutrouveli 1, Irene Vraka 1, George Daniel 2, Ekaterini Haritou 1, Chrysooula Koumanidou 1
1 ‘P&A.Kyriakou’ Children’s Hospital, Athens, GREECE
2 General Hospital of Thessaliniki G. Gennimatas, Thessaloniki, GREECE

Poster: EDU-025
A PICTORIAL REVIEW OF INJURIES CONSIDERED TO HAVE A HIGH SPECIFICITY FOR ABUSIVE INJURY IN CHILDREN
Nageena Suleman, Samantha Low, Adam Oates
Birmingham Children’s Hospital, Birmingham, UNITED KINGDOM

Poster: EDU-026
ADDITIVE MANUFACTURING (3D PRINTING) IN THE TIME OF A PANDEMIC: LESSONS, SUGGESTIONS, AND WHAT’S NEXT
Elizabeth Silvestro 1, Maria Velez-Florez 1, Ethan Larsen 1, Micheal Francavilla 1,2, Raymond Sze 1,2
1 Childrens Hospital of Philadelphia, Philadelphia, USA
2 Perelman School of Medicine at the University of Pennsylvania, Philadelphia, USA

Poster: EDU-027
CREATING A CASE-BASED ELECTRONIC TEACHING MODULE ON BASIC ABDOMINAL IMAGING
Alyssa Schlotman 1, Melissa Hilmes 2, Sudha Singh 2
1 Vanderbilt University School of Medicine, Nashville, TN, USA
2 Vanderbilt University Medical Center, Nashville, TN, USA

Poster: EDU-028
FETAL HEAD AND NECK PATHOLOGY ON 3-T MRI
Manuel Patino 1, Fedel Machado Rivas 2, John Choi 2, Caroline Robson 2, Camilo Jaimes 2
1 Massachusetts General Hospital - Department of Radiology, Boston, USA
2 Boston Children’s Hospital - Department of Radiology, Boston, USA

Poster: EDU-029
AN UNUSUAL PRESENTATION OF PAEDIATRIC MYOFIBROMA (MYOPERICYTOMA): A CASE REPORT
Tobi Aderotimi, Kate Taylor-Robinson, Alexandra Williams
Paediatric Radiology Department, Alder Hey Children’s Hospital, Liverpool, UNITED KINGDOM
**Poster: EDU-030**
TYPICAL AND ATYPICAL FINDINGS OF DUPLEX KIDNEYS ON FETAL MRI
Caoilfhionn Ní Leidhin 1, Mariana Meyers 2, Niamh Adams, Ian Robinson 1, Gabrielle Colleran 1
1 Department of Radiology, The National Maternity Hospital, Holles Street, Dublin, IRELAND
2 Department of Radiology, Children’s Hospital Colorado, Aurora, Colorado, USA

**Poster: EDU-031**
AQUEDUCTAL STENOSIS: PRENATAL DIAGNOSIS AND POSTNATAL OUTCOME
Meghan Mcclure, Edward Yang, Judy Estroff
Boston Children’s Hospital, Boston, USA

**Poster: EDU-032**
NEW LESSONS FROM MR IMAGING OF PLACENTA ACCRETA SPECTRUM: PRACTICAL INSIGHTS AND FUTURE PERSPECTIVES
Irina Mashchenko, Polina Kozlova, Elena Semenova, Ekaterina Shelepova, Olga Li, Gennadiy Trufanov
Almazov National Medical Research Centre, Saint Petersburg, RUSSIAN FEDERATION

**Poster: EDU-033**
TRANSLATION OF STANDARD CARDIOVASCULAR IMAGING TECHNIQUES TO THE FETAL HEART
Björn Schönnagel 1, Manuela Tavares De Sousa 2, Jin Yamamura 1, Janine Knapp 1, Shuo Zhang 3, Fabian Kording 14
1 University Medical Center Hamburg-Eppendorf, Department of Diagnostic and Interventional Radiology and Nuclear Medicine, Hamburg, GERMANY
2 University Medical Center Hamburg-Eppendorf, Department of Obstetrics and Fetal Medicine, Hamburg, GERMANY
3 Philips Healthcare, Hamburg, GERMANY
4 Northh Medical GmbH, Röntgenstraße 24, 22335, Hamburg, GERMANY

**Poster: EDU-034**
FETAL CARDIAC MRI - PHYSICS AND TECHNOLOGY OF IMAGE ACQUISITION
Denzel Cole 2, Luis F. Goncalves 1, Nicholas Rubert 1, Dianna M. E. Bardo 1
1 Phoenix Children’s Hospital - Department of Radiology, Phoenix, AZ, USA
2 Larkin Community Hospital - Department of Radiology, South Miami, FL, USA

**Poster: EDU-035**
THE PERINATAL DIAGNOSIS OF THE BECKWITH_ WIEDEMANN AND OTHER OVERGROWTH SYNDROMES: WHEN AND HOW TO DETECT
Fred Avni 1, Catherine Garel 2
1 Delta Hospital - Chirec, Brussels, BELGIUM
2 Armand Trousseau - Hospital, Paris, FRANCE

**Poster: EDU-036**
A LIGHT AT THE END OF THE TUNNEL- AN ILLUMINATION OF THE PEDIATRIC INGUINAL CANAL
Ellen Christine Wallace, Jean-Marc Gauguet, Farhana R. Riaz, Julia Rissmiller, Ahmed M. Sobeih
University of Massachusetts & UMassMemorial Medical Center, Worcester, USA
Poster: EDU-037
MAKING CONNECTIONS WITH TRACHEOESOPHAGEAL FISTULAS: SPECTRUM OF PRESENTATIONS AND TREATMENT COMPLICATIONS
Gregory Vorona, Landon Funiciello, Jason Sulkowski, Madhura Chitnavis, Kathryn Jones, Jacqueline Urbine
The Children’s Hospital of Richmond at Virginia Commonwealth University, Richmond, USA

Poster: EDU-038
PICTORIAL REVIEW OF THE INGUINO-SCROTAL REGION IN CHILDREN: NORMAL ANATOMY AND PATHOLOGY
Harvey Teo
KK Hospital, Singapore, SINGAPORE

Poster: EDU-039
IMAGING THE UMBILICUS AND ITS DISORDERS
Harvey Teo
KK Hospital, Singapore, SINGAPORE

Poster: EDU-040
WALKING THE FLANK: BULGING FLANKS-HELPFUL SIGNS ON ABDOMINAL RADIOGRAPHS IN THE DIAGNOSIS OF INTRABDOMINAL MASSES
Diana Lopez-Garcia, Jayne Seekins, Helen Nadel, Jesse Sandberg
Stanford University, Palo Alto, USA

Poster: EDU-041
ROTATING 3D LIKE FLUROSCOPIC TECHNIQUE USING AN OCTOSTOP AND A FIXED FLUROSCOPY SYSTEM
Mikhael Sebaaly, Takashi Shawn Sato, Robert Becker
University of Iowa Hospitals and Clinics, Department of Radiology, Iowa City, USA

Poster: EDU-043
adolescent with median arcuate ligament and nutcracker syndromes
Monique Riemann, Christine Markham, Smita Bailey
Phoenix Children’s Hospital, Phoenix, USA

Poster: EDU-049
MOVING BEYOND NONSPECIFIC BOWEL WALL THICKENING ON ULTRASOUND WITH PATHOLOGIC CORRELATION
Ione Limantoro, Anna Lee, Daniel Rosenbaum
BC Childrens Hospital and The University of British Columbia, Vancouver, CANADA

Poster: EDU-050
RECTOVESICULAR FISTULA: AN ODD PRESENTATION
Leah Leonhardt, Douglas Moote, Shanshan Bao
Hartford Hartford, Glastonbury, USA

Poster: EDU-052
PAEDIATRIC VIDEOFLUOROSCOPIC SWALLOW STUDY (VFSS): A STEP-BY-STEP APPROACH
Ana Forjaco, Ana Rega, Pedro Alves
Centro Hospitalar Universitário Lisboa Central, Lisbon, PORTUGAL
Poster: EDU-053
POINT SHEAR WAVE ELASTOGRAPHY: ECOGRAPHIC TECHNIQUE AND PAEDIATRIC APPLICATIONS
Ana Forjaco
Centro Hospitalar Universitário Lisboa Central, Lisbon, PORTUGAL

Poster: EDU-056
ACUTE ABDOMEN IN NEONATES: IMAGING SPECTRUM AND CLASSIC FEATURES
Ankita Chauhan, Anand Raju, Thomas Boulden, Preet Sandhu, Harris L. Cohen
University of Tennessee Health Science Center/Le Bonheur Children’s Hospital, Memphis, USA

Poster: EDU-057
ASSESSMENT OF ESOPHAGUS AND GASTROESOPHAGEAL JUNCTION IN THE PEDIATRIC AGE GROUP
Ankita Chauhan, Anand Raju, Thomas Boulden, Preet Sandhu, Harris L. Cohen
University of Tennessee Health Science Center/Le Bonheur Children’s Hospital, Memphis, USA

Poster: EDU-058
IMAGING SPECTRUM OF INGESTED FOREIGN BODY IN THE PEDIATRIC AGE GROUP: WHAT THE RADIOLOGISTS NEED TO KNOW
Ankita Chauhan, Anand Raju, Thomas Boulden, Preet Sandhu, Harris L. Cohen
University of Tennessee Health Science Center/Le Bonheur Children’s Hospital, Memphis, USA

Poster: EDU-059
GASTRIC TRANSPOSITION FOR PAEDIATRIC OESOPHAGEAL REPLACEMENT SURGERY – A RADIOLOGICAL REVIEW
Anne Carroll, Joe Curry, Kieran Mchugh
Great Ormond Street Hospital, London, UNITED KINGDOM

Poster: EDU-060
THE SPLEEN IN THE CHILD
Sandra Bareno 1, Lizbet Perez 1, Isabel Fuentealba 1,2
1 Clinica Alemana De Santiago, Santiago, CHILE
2 Hospital de La Florida, Santiago, CHILE

Poster: EDU-062
IMAGING OF INGESTED FOREIGN BODIES AND THEIR COMPLICATIONS
Hiral Banker, Preet Sandhu
Le Bonheur Children’s Hospital, Memphis, USA

Poster: EDU-063
CONGENITAL PORTOSYSTEMIC SHUNTS
Eduardo Bandeira 1, Rita Prata 2, Rita Carneiro 2, Eugénia Soares 2
1 Centro Hospitalar Lisboa Ocidental - Department of Radiology, Lisbon, PORTUGAL
2 Centro Hospitalar Lisboa Central - Hospital D. Estefânia, Department of Radiology, Lisbon, PORTUGAL
Poster: EDU-064
A PICTORIAL REVIEW OF MALROTATION MIMICS IN PAEDIATRICS
Srividy Arya, Saira Haque
King’s College Hospital NHS Trust, London, UNITED KINGDOM

Poster: EDU-065
TRAUMATIC HANDLEBAR INJURIES IN CHILDREN
John Adu, Saif Sait, Sayani Khara, Saira Haque
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Poster: EDU-066
ULTRASOUND IN DIAGNOSIS AND MONITORING OF PYELONEPHRITIS, AS THE ONLY IMAGING MODALITY IN CHILDREN
Irene Vraka ¹, Marina Vakaki ¹, Rodanthi Sfakiotaki ¹, Eleni Koutrouveli ¹, Ekaterini Haritou ¹, Anna Chountala ¹, Georgios Daniil ², Chrysoula Koumanidou ¹
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Poster: EDU-067
MULTISYSTEM IMAGING FINDINGS OF HAEMOLYTIC URAEMIC SYNDROME IN CHILDREN: A PICTORIAL REVIEW
Caoilfhionn Ní Leidhin ¹, Caoimhe Costigan ², Dermot Wildes ², Ailbhe Mcdermott ¹, Kathleen Gorman, Atif Awan ², Stephanie Ryan ¹, Eilis Twomey ¹
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Poster: EDU-068
ECOGENIC KIDNEYS IN NEONATES AND INFANTS: A PICTORIAL REVIEW
Ailbhe Mcdermott, Eoghan E. Laffan, Angela T. Byrne
Children’s Health Ireland at Crumlin, Dublin, IRELAND

Poster: EDU-069
THE USE OF MULTI-MODALITY IMAGING IN THE DIAGNOSIS OF CONGENITAL URACHAL ANOMALIES
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Poster: EDU-070
WILMS OR NOT WILMS? A PICTORIAL REVIEW OF PEDIATRIC RENAL MASSES
Rohan Biswas, Ami Gokli
Staten Island University Hospital, Staten Island, USA

Poster: EDU-071
IMAGING INGUINO-SCROTAL ANOMALIES IN NEONATES (AND INFANTS) IN THE LIGHT OF THE EMBRYOLOGICAL DEVELOPMENT
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Poster: EDU-072

WAGR IS WACK!
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Poster: EDU-073

A PICTORIAL REVIEW OF INTERVENTIONAL RADIOLOGY PROCEDURES IN PAEDIATRIC HEPATOBILIARY DISEASES
Nasim Tahir 1, Zahra Ramzan 2, Oliver Johnson 2, Ellen Collingwood 1
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Poster: EDU-074

ABNORMALITIES OF THE LYMPHATIC SYSTEM IN CHILDREN: IMAGE-GUIDED INTERVENTIONS
Gali Shapira-Zaltsberg 1, Michael Temple 2, Govind Chavan 2, Christopher Lam 2, Mary-Louise Greer 2, Joao Amaral 2
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2 SickKids, Toronto, CANADA

Poster: EDU-075

A PICTORIAL REVIEW OF PROCEDURES IN PAEDIATRIC INTERVENTIONAL URORADIOLOGY
Ellen Collingwood, Nasim Tahir
Leeds Teaching Hospitals NHS Trust, Leeds, UNITED KINGDOM

Poster: EDU-076

A RADIOLOGIST’S GUIDE TO LYMPHATIC ANOMALIES IN PEDIATRIC PATIENTS
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Poster: EDU-077

IMAGING REVIEW AND DISEASE FOLLOW UP OF CHRONIC NONBACTERIAL OSTEOMYELITIS WITH WHOLE BODY MRI
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Poster: EDU-078

INFLAMMATORY CONDITIONS OF THE PEDIATRIC HAND AND NON-INFLAMMATORY MIMICS
Leanne Royle, Thomas Mendes Da Costa, Daniel Rosenbaum
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**Poster: EDU-079**  
SPECTRUM OF NORMAL FINDINGS, ANATOMIC VARIANTS AND PATHOLOGIC FINDINGS OF THE PAEDIATRIC STERNUM: A PICTORIAL REVIEW  
Andreas Panayiotou, Marcela De La Hoz Polo, Saira Haque  
King’s College Hospital, London, UNITED KINGDOM

**Poster: EDU-080**  
PRACTICAL APPROACH TO MRI OF THE TEMPOROMANDIBULAR JOINT IN JUVENILE IDIOPATHIC ARTHRITIS  
Maria Navallas 1, Emilio J Inarejos 2, David Coca 1, Mary-Louise Greer 3, Oscar M Navarro 3  
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2 Hospital Sant Joan de Déu, Barcelona, SPAIN  
3 Hospital for Sick Children, Toronto, CANADA

**Poster: EDU-082**  
NON-ACCIDENTAL TRAUMA AND ITS MIMICKERS: A PICTORAL EDUCATIONAL REVIEW  
Hannah Myers, Ami Gokli  
Staten Island University Hospital, Staten Island, USA

**Poster: EDU-083**  
A PICTORIAL REVIEW OF RADIOLOGICAL FINDINGS IN SUSPECTED PHYSICAL ABUSE IN CHILDREN  
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**Poster: EDU-084**  
IMAGING DURING THERAPY IN LATE PRESENTATION OF DEVELOPMENTAL DYSPLASIA OF THE HIP (DDH)  
Cristina Hernández, Ignasi Barber  
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**Poster: EDU-085**  
CREATION OF A NOVEL PEDIATRIC SPORTS MEDICINE IMAGING MODULE  
Holly Harper 1, Grant Mackinnon 1, Yu Luo 12, Sudha Singh 12, Melissa Hilmes 12  
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**Poster: EDU-086**  
CONGENITAL TALIPES EQUINOVARUS: INITIAL AND LONG-TERM RADIOLOGICAL ASSESSMENT  
Ana Forjaco, Lúcia Fernandes, Pedro Alves  
Centro Hospitalar Universitário Lisboa Central, Lisbon, PORTUGAL

**Poster: EDU-087**  
CINEMATIC RENDERING IN PAEDIATRIC MUSCULOSKELETAL IMAGING  
Aisling Fagan 1, Owen Arthurs 1, Neil Sebire 2, Susan Shelmerdine 1  
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2 Great Ormond Street Hospital- Department of Pathology, London, UNITED KINGDOM
Poster: EDU-088
ULTRASOUND OF PEDIATRIC LUMPS AND BUMPS
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Poster: EDU-089
MR IMAGING OF NON-TRAUMATIC NON-NEOPLASTIC PATHOLOGIES OF THE PEDIATRIC KNEE JOINT – A PICTORIAL REVIEW
Mudit Arora, Narendra Shet, Ramon Sanchez
Children’s National Hospital, Washington, DC, USA

Poster: EDU-090
ARTERIAL SPIN LABELLING (ASL) MRI IN PEDIATRIC HEAD AND NECK LESIONS WITH PATHOLOGICAL CORRELATION WHEN AVAILABLE
Aparna Devi Yepuri, Mathew Whitehead, Jose Molto
Childrens National Medical Center, Washington, USA

Poster: EDU-091
ON-CALL PRIMER FOR RESIDENTS: PEDIATRIC NEURORADIOLOGY
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Poster: EDU-092
A MULTIMODALITY REVIEW OF NONTRAUMATIC PEDIATRIC INTRACEREBRAL HEMORRHAGE
Gregory Vorona 1, Madhura Chitnavis 1, Landon Funiciello 1, Ewa Way 1, Katharyn Jones 1, Erica Poletto 2, Jacqueline Urbine 1
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Poster: EDU-093
IMAGING THE “PECULIAR” HEAD SHAPE
Loukia Tzarouchi, Evangelia Manopoulou, Christina Meleti, Georgios Manganas, Panagiotis Tagkalakis, Spyros Yarmenitis, Georgia Papaioannou
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Poster: EDU-094
DEVELOPMENT AND MYELINATION OF THE FETAL AND POSTNATAL BRAIN, AN INTERACTIVE PICTORIAL REVIEW OF COMBINED MRI, ANATOMICAL AND HISTOPATHOLOGICAL ANALYSIS
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Poster: EDU-095
LOOKING INTO THE HARLEQUIN EYES: A PICTORIAL REVIEW OF CRANIOSYNOSTOSIS AND ITS MANAGEMENT
Kendall Stevens, Robyn Murphy
Atlantic Health System, Morristown, USA

Poster: EDU-096
CEREBROSPINAL FLUID SHUNT COMPLICATIONS IN CHILDREN: A PICTORIAL REVIEW
Youck Jen Siu Navarro, Erica Poletto, Archana Malik, Robert Koenigsberg
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Poster: EDU-097
IMAGING OF OCULAR AND OPTIC NERVE TRAUMA IN CHILDREN
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Poster: EDU-098
NEUROIMAGING OF NEONATAL STROKE: CLASSIFICATION AND IMAGING FINDINGS
Jacopo Scaggiante, Milad Yazdani, Manuel Trevino, Maria Gisele Matheus, Maria Vittoria Spampinato
Medical University of South Carolina, Charleston, USA

Poster: EDU-099
EYES ON ORBIT: A RADIOLOGICAL REVIEW OF THE MAIN PEDIATRIC ORBITAL LESIONS
Eleonora Piccirilli 1, Alessia Carboni 2, Antonio Marrazzo 2, Massimo Caulo 1,3, Carlo Gandolfo 2, Paolo Tomà 4, G. Stefania Colafati 2
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Poster: EDU-100
PAEDIATRIC CEREBRAL CAVERNOUS MALFORMATIONS
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2 Royal Hallamshire Hospital, Sheffield, UNITED KINGDOM

Poster: EDU-101
IMPORTANCE OF FLEXION AND EXTENSION MRI IN HIRAYAMA DISEASE
Adetinka Owoyele
University of Pittsburgh Medical center, Pittsburgh, USA
IMAGING OF PATHOLOGIES OF VISUAL PATHWAY
Rahul Nikam 1, Ashrith Kandula 1, Snigdha Puram 1, Ben Paudyal 1, Xuyi Yue 1, Sachin Kumbhar 2
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PEDIATRIC CLINICAL MAGNETIC RESONANCE ELASTOGRAPHY OF THE BRAIN: A PRIMER FOR RADIOLOGISTS
Rahul Nikam 1, Grace Mcilvain 2, Vinay Kandula 1, Xuyi Yue 1, Gurcharanjeet Kaur 1, Lauren Averill 1, Arabinda Choudhary 3, Curtis Johnson 2
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2 University of Delaware, Newark, USA
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DEEP GRAY MATTER PATHOLOGIES: A PATTERN-BASED APPROACH. WHAT THE PEDIATRIC RADIOLOGIST NEEDS TO KNOW
Sarah Moum 1, Maura Ryan 1, Paul Caruso 2
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2 Massachusetts General Hospital, Department of Radiology, Boston, USA

NEUROIMAGING OF HMGCOA LYASE DEFICIENCY: CASE SERIES AND REVIEW OF LITERATURE
Amna Kashgari 1, Abeer Al Mehdar 1, Prasad Hanagandi 2, Majid Al Fadhel 1
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2 King Abdullah Specialized Children's Hospital, Riyadh, SAUDI ARABIA

A RADIOLOGIC PATHOLOGIC PICTORIAL REVIEW OF MEDULLOBLASTOMA SUBGROUPS BASED ON THE REVISED 2016 WHO CLASSIFICATION – AN IRISH PERSPECTIVE
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TO LEAVE OR NOT TO LEAVE ALONE – IMAGING APPROACH TO PETROUS APEX LESIONS IN CHILDREN
Neetika Gupta 1, Shivaprakash Hiremath 2, Santanu Chakraborty 2, Claudia Martinez Rios 1, Elka Miller 1
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Poster: EDU-110
NEUROIMAGING FINDINGS IN MAPLE SYRUP URINE DISEASE-EXPERIENCE IN A TERTIARY REFERRAL CENTRE
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Poster: EDU-111
PEDIATRIC NON-TRAUMATIC INTRACRANIAL HEMORRHAGE: WHAT RADIOLOGIST NEED TO LOOK FOR?
Alessia Carboni 1, Antonio Marrazzo 1, Emma Gangemi 2, Ioan Paul Voicu 3, Maria Luisa D’Andrea 4, Andrea Carai 5, Angela Mastronuzzi 6, Carlo Gandolfo 1, Paolo Tomà 4, G. Stefania Colafati 1
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Poster: EDU-112
ORBITAL LESIONS IN PEDIATRICS- A RADIOLOGIST’S PRIMER
Hiral Banker, Preet Sandhu
Le Bonheur Children’s Hospital, University of Tennessee, Memphis, USA

Poster: EDU-113
ANOMALIES OF THE CORPUS CALLOSUM: AN MR ANALYSIS OF THE SPECTRUM OF ASSOCIATED MALFORMATIONS
Meena Anamika
Lady Harding Medical College, New Delhi, INDIA

Poster: EDU-114
NEONATAL THYROID IMAGING DOESN’T HAVE TO BE A PAIN IN THE NECK!
Aisling Fagan, Simon Clifford, Fern Whittam, David Garbera, Sai Elegiti, Marina Easty, Lorenzo Biassoni
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Poster: EDU-115
HYBRID ONCOLOGIC IMAGING IN PAEDIATRIC RADIOLOGY: ADVANTAGES OF I123 MIBG SPECT/CT IN NEUROBLASTOMA
Simon Clifford, Saigeet Eleti, Aisling Fagan, Thomas Davies, Fern Whittam, David Garbera, Marina Easty, Lorenzo Biassoni
Great Ormond Street Hospital, London, UNITED KINGDOM

Poster: EDU-116
BENIGN VERSUS MALIGNANT? UNUSUAL VASCULAR MASSES IN CHILDREN
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Poster: EDU-117
IMAGING OF PAEDIATRIC VENO-OCLUSIVE DISEASE
Aisling Fagan, Fern Whittam, Quynh Tran, Fariba Williams, David Garbera, Tom Davies, Kieran McHugh, Tom Watson
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Poster: SCI-001
PEDIATRIC BODY COMPOSITION: REFERENCE VALUES FOR L3 MUSCLE AND FAT AREAS USING AUTOMATIC SEGMENTATION
Atia Samim 1, Suzanne Spijkers 1, Pim Moeskops 1,3, Annemieke S. Littooij 1,2,
Bob D. De Vo 3,4, Wouter B. Veldhuis 1,3, Pim A. De Jong 1, Hanneke M. Van Santen 1,2,
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4 Amsterdam University Medical Centers, Amsterdam, THE NETHERLANDS

Poster: SCI-002
WRONG EXAM, WRONG PATIENT: REPORTING AND TRACKING OF ERRORS AND NEAR MISSES IN GENERAL PEDIATRIC RADIOLOGY
Lynne Ruess, Rebecca Shaffer, Lauren Mack, Julee Eing, Tamara Viggiano,
Rajesh Krishnamurthy
Nationwide Children’s Hospital, Columbus, USA

Poster: SCI-003
IMPLEMENTING ACADEMIC PRODUCTIVITY OF RESEARCH USING MACHINE LEARNING IN A SYSTEM DYNAMICS MODEL
Andrea Doria 1, Afsaneh Amirabadi 1, Olga Pinto 1, Sahar Hashmi 2
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2 MIT, Cambridge, USA

Poster: SCI-004
SYNTHESIZING CONTRAST ENHANCEMENT FROM NON-CONTRAST CHEST COMPUTED TOMOGRAPHY USING A GENERATIVE ADVERSARIAL NETWORK
Yeon Jin Cho, Jae Won Choi, Seul Bi Lee, Seunghyun Lee, Young Hun Choi, Jung-Eun Cheon,
Woo Sun Kim
Seoul National University Hospital, Seoul, SOUTH KOREA

Poster: SCI-005
EVALUATION OF USEFULNESS OF REAL-TIME, DEEP LEARNING BASED DENOISING TECHNIQUE INTEGRATED INTO PACS: IMAGE QUALITY AND USER PREFERENCE
Yeon Jin Cho, Dae Hee Kim, Seul Bi Lee, Seunghyun Lee, Younghun Choi, Jung-Eun Cheon,
Woo Sun Kim, Jong-Hyo Kim
Seoul National University Hospital, Seoul, SOUTH KOREA
**Poster: SCI-006**

**IMAGE GENTLY FAMILY FRIENDLY CAMPAIGN: REDUCING CHILDHOOD RADIATION EXPOSURE THROUGH AN INNOVATIVE EDUCATION MODULE**

Samuel Brady 1, Alex J. Towbin 1, Donald Frush 2, Ami Gokli 3, Kristen Hood-Watson 4, Dina Kurzweil 5, Grace Mitchell 3, Moelle Molter 5, Dana R. Nguyen 5, Emilee Palmer 6, Christopher W. Bunt 4

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5 Uniformed Services University, Bethesda, USA
6 OhioHealth, Westerville, USA

**Poster: SCI-007**

**DEVELOPMENT OF AN IMAGING BASED INTEGRATED SIMULATOR PROGRAM (ISP) TO PROVIDE A MEANS FOR ON-GOING PEDIATRIC RESIDENT COMPETENCY ASSESSMENT AND DETERMINATION OF ABILITY TO PROVIDE INDEPENDENT CALL**

Denise A Castro 1, Joseph Yang 2, Tin Li 1, Saleha Munawar 1, Amy Acker 1, Don Soboleski 1

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2 Memorial University, St. John’s, CANADA

**Poster: SCI-010**

**ANALYSIS OF RADIOLOGY QIS INFRASTRUCTURE RESPONSE TO THE COVID PANDEMIC: LESSONS FOR THE FUTURE**

Ellen Chung, Lynne Ruess, Margarita Chmil, Tamara Viggiano, Rajesh Krishnamurthy

Nationwide Children’s Hospital, Columbus, USA

**Poster: SCI-011**

**TRAINING A PEDIATRIC RADIOLOGIST MUST LOOK BEYOND CONVENTIONAL METRICS TO FOCUS ON DEVELOPMENT OF HEALTHY PROFESSIONAL IDENTITY**

Susan Hamman 1, Peter Loper 2, Janet R. Reid 3

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2 University of South Carolina, Columbia, USA
3 University of Pennsylvania, Philadelphia, USA

**Poster: SCI-012**

**SOCIETY FOR PEDIATRIC RADIOLOGY FELLOWSHIP SURVEY - A FOCUS ON WHAT’S BEHIND OUR CAREER CHOICE**

Syed Hussaini, Maria Velez-Florez, Janet Reid

Children’s Hospital of Philadelphia, Philadelphia, USA

**Poster: SCI-013**

**PATIENT FEEDBACK IN PEDIATRIC RADIOLOGY - A PERFORMANCE ANALYSIS**

Michael Georg Grasser, Erich Sorantin, Jana Lacekova, Ariane Hemmelmayr

Division of Pediatric Radiology, Department of Radiology, Medical University of Graz, Graz, AUSTRIA
**Poster: SCI-014**

**TWO-DIMENSIONAL (2D) SHAPE-FEATURES CAN QUANTIFY THE SEVERITY OF LIVER DISEASE IN CHILDREN WITH AUTOSOMAL RECESSIVE POLYCYSTIC KIDNEY DISEASE (ARPKD) ASSOCIATED CONGENITAL HEPATIC FIBROSIS (CHF)**

Adarsh Ghosh, Suraj Serai, Shyam Sunder B Venkatakrishna, Mohini Dutt, Erum Hartung
Children’s Hospital of Philadelphia, Philadelphia, USA

**Poster: SCI-015**

**PREDICTORS OF PEDIATRIC RADIOLOGY EXAM ORDER AND COMPLETION DURING THE COVID-19 PANDEMIC**

Sebastian Gallo-Bernal, Fedel Machado-Ricas, Daniel Briggs, Oleg Pianykh, Michael S. Gee
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**Poster: SCI-016**

**EVALUATION OF INTER-READER REPRODUCIBILITY FOR DETECTION AND LABELING OF PEDIATRIC RIB FRACTURES ON RADIOGRAPHS**

Gaurav Gadgeel 1, Jonathan Burkow 1, Francisco Perez 2, Joseph Junewick 3, Andrew Zbojniewicz 3, Jeffrey Otjen 2, Adam Alessio 1
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2 Seattle Children’s- Department of Radiology, Seattle, USA
3 Spectrum Health- Department of Radiology, Grand Rapids, USA

**Poster: SCI-017**

**DO THE “EYES HAVE IT”? “SEEING” PEDIATRIC CT PERFORMANCE IMPROVEMENT OPPORTUNITIES THROUGH AN AUTOMATED QUALITY AND RADIATION DOSE TOOL**

Donald Frush 1, Jayne Seekins 2, Aiping Ding 1, Preet Patel 3, Armistead Sapp 1, Ehsan Samei 1
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2 Lucile Packard Children’s Hospital at Stanford, Palo Alto, USA
3 Duke University School of Medicine, Durham, USA

**Poster: SCI-018**

**TOWARDS IMPLEMENTATION OF UNSUPERVISED LESION DETECTION OF PEDIATRIC CANCER WITH WHOLE BODY MRI SCREENING BY INCORPORATION OF 3D CONTEXT**

Sayali Joshi 1, Alex Chang 1, Abhishek Moturu 1, Vinith Suriyakumar 1, Nipaporn Tewattanarat 2, Lisa States 3, Suraj Serai 3, Anna Goldenberg 1, Andrea Doria 4
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**Poster: SCI-019**

**RIB FRACTURE DETECTION IN PEDIATRIC RADIOGRAPHS VIA DEEP CONVOLUTIONAL NEURAL NETWORKS**

Jonathan Burkow 1, Gregory Holste 1, Francisco Perez 2, Joseph Junewick 3, Andy Zbojniewicz 3, Jamie Frost 3, Erin Romberg 2, Sarah Manashe 2, Jeffrey Otjen 2, Adam Alessio 1
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**Poster: SCI-020**

**ESTABLISHING A WHOLE BODY MRI REPOSITORY FOR CHRONIC NON-BACTERIAL OSTEOMYELITIS (CNO)**
Mariam Al-Dajani 1, Karen Alexander 2, Olga Carpio 1, Amie Robinson 2, Michael Gee 3, Govind Chavhan 1, Sherwin Chan 2, Mary-Louise Greer 1
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3 Massachusetts General Hospital, Harvard Medical School, Boston, USA

**Poster: SCI-021**

**PERFORMANCE OF DEEP LEARNING MODEL USING ENSEMBLE METHOD FOR PEDIATRIC BONE AGE ASSESSMENT**
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**Poster: SCI-024**

**RIGHT CIRCUMFLEX AORTA AND AORTIC COARCTATION IN AN INFANT: A CASE REPORT**
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**Poster: SCI-025**

**KAWASAKI DISEASE AND PAEDIATRIC INFLAMMATORY MULTISYSTEM SYNDROME: TEMPORALLY ASSOCIATED WITH SARS-COV-2 (PIMS-TS) – RARE CAUSES OF PAEDIATRIC CORONARY ARTERY ANEURYSMS: TWO CASE REPORTS USING CTCA**
Divya Vaid 1, Reem Bedir 1, Sumit Karia 1, Ying Hui Chee 2, Judith Babar 1, Maria Ta Wetscherek 1
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**Poster: SCI-026**

**ROLE OF ULTRA HIGH PITCH FAST CT ANGIOGRAPHY IN IMAGING POST-OPERATIVE CONGENITAL HEART DISEASE**
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**Poster: SCI-028**

**CONTRAST PROTOCOL OPTIMISATION IN FONTAN CIRCULATION COMPUTED TOMOGRAPHY PULMONARY ANGIOGRAPHY.**
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Poster: SCI-029
INFRACARDIAC TYPE TOTAL ANOMALOUS PULMONARY VENOUS RETURN: CASE REPORT OF THE RARE CONGENITAL CARDIAC ANOMALY
Zuhal Bayramoglu, Ezgi Kara, Eshgin Sahibli, Seçkin Çobanoglu
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Poster: SCI-030
DUAL-ENERGY CT EVALUATION OF PEDIATRIC THORACIC DISORDERS: CLINICAL APPLICATIONS WITH EMPHASIS ON UP-TO-DATE PRACTICAL TECHNIQUES AND ADDED DIAGNOSTIC VALUE
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Poster: SCI-031
INVESTIGATING CONGENITAL LUNG LESIONS IN INFANTS; AUDIT OF CT PROTOCOL AND DOSE
Leanne Royle, Zonah Khumalo, Gordon Culham
B.C. Children’s, Vancouver, CANADA

Poster: SCI-032
HIGH-RESOLUTION CT FINDINGS IN CHILDREN WITH NON-SPECIFIC INTERSTITIAL PNEUMONIA
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Poster: SCI-033
CONGENITAL THORACIC ABNORMALITIES: INTERESTING CASES FROM A TERTIARY PEDIATRIC CENTRE
Jonathan Bevan, Linda Stephens
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Poster: SCI-034
ASSESSMENT OF LUNG DENSITY IN PEDIATRIC PATIENTS USING ZERO ECHO-TIME AND ULTRASHORT ECHO-TIME SEQUENCES
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Poster: SCI-035
RADIOGRAPHIC SEQUEL OF A NEWBORN DIED BY COVID-19 INFECTION
Irene Vraka 1, Rodanthi Sfakiotaki 1, Christina Zouridaki 1, Eleni Koutrouveli 1, Anna Chountala 1, Marina Vakaki 1, Georgios Daniil 2, Ekaterini Haritou 1, Chrysoula Koumanidou 1
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Poster: SCI-036
IMAGE QUALITY OF DSCT WITH HIGH-PITCH SPIRAL SCAN MODE (TURBO FLASH SPIRAL MODE) WITH OR WITHOUT GENERAL ANESTHESIA: CTA EVALUATION OF CONGENITAL THORACIC DISORDERS IN INFANTS AND YOUNG CHILDREN
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Poster: SCI-037
AN X-RAY SCORE TO DESCRIBE EVOLVING BRONCHOPULMONARY DYSPLASIA (BPD) IN PRETERM BABOONS
Julia Schönfeld 1, Marius Möbius 1,2, Steven Seidner 3, Donald Mccurnin 3, Cynthia Blanco 3, Shamimunisa Mustafa 3, Isabel Fürböter-Beinhert 1, Leonhard Menschner 1, Bernard Thebauld 4,5,6, Mario Rüdiger 1,2, Gabriele Hahn 7
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Poster: SCI-038
TENSION GASTROTHORAX MASQUERADING AS TENSION PNEUMOTHORAX IN A CHILD
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Poster: SCI-039
RALE RADIOGRAPHIC SCORING IN PEDIATRIC ACUTE RESPIRATORY DISEASE SYNDROME (PARDS)
Maria Raissaki 1, Evangelia Vassalou 1, Ioanna Mpatziou 2, George Briassoulis 2, Stavroula Ilia 2
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Poster: SCI-040
HRCT FINDINGS IN CHILDREN WITH CHRONIC SUPPURATIVE LUNG DISEASE (CSLD) AND P. AERUGINOSA COLONIZATION
Spyridon Prountzos 1, Olympia Sardeli 2, Dafni Moriki 2, Angeliki Galani 1, Ornella Moschovaki Zeiger 2, Konstantinos Douros 2, Efthymia Alexopoulou 1
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Poster: SCI-041
GRAVES’ DISEASE AND THYMIC HYPERPLASIA IN PEDIATRIC PATIENTS
Saelin Oh
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Poster: SCI-042
FREQUENCY OF CHEST RADIOGRAPHIC FINDINGS IN PEDIATRIC COVID-19 POSITIVE PATIENTS
Jose Francisco Molto Garcia 1, Jonathan Zember 1, Ramon Sanchez 1, Karun Sharma 1, Gustavo Nino 2, Ryan Kahanowitch 2, Hector Aguilar 2, Xilei Xu Chen 2, Jered Weinstock 2, Carlos Tor Diez 3, Marius George Linguraru 3
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Poster: SCI-043
LUNG DENSITY ASSESSMENT OF PULMONARY DISEASE IN CYSTIC FIBROSIS WITH COMPUTED TOMOGRAPHY SCANS
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Poster: SCI-044
TRAUMATIC PNEUMATOCELE IN NONACCIDENTAL TRAUMA
MICHAEL CHIGOZIR Lewis, SHEENA Saleem
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Poster: SCI-045
ENDOTRACHEAL AND INTRAOSSEOUS VASCULAR LINE PLACEMENTS IN PEDIATRIC EMERGENCY CARE: A REVIEW BASED UPON POSTMORTEM COMPUTED TOMOGRAPHY
Patricia Harty, Emily Gripp, Matthew Dina, Sharon Gould, H. Theodore Harcke
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Poster: SCI-046
REVIEW OF INTER-CENTRE VARIATION BETWEEN UK PAEDIATRIC CYSTIC FIBROSIS CENTRES IN THEIR APPROACH TO ANNUAL ASSESSMENT A DONNELLY, A REID AND A PATERSON ROYAL BELFAST HOSPITAL FOR SICK CHILDREN BELF
Austin Donnelly, Annie Paterson, Alistair Reid
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Poster: SCI-047
UNUSUAL LESION OF THE MEDIASTINUM: LANGERHANS CELL HISTIOCYTOSIS
Zuhal Bayramoglu, Elif Hazal Karli, Ezgi Kara
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Poster: SCI-048
CALCIFYING FIBROUS PSEUDOTUMOR OF THE MEDIASTINUM: A RARE CASE REPORT
Zuhal Bayramoglu, Ezgi Kara, Elif Hazal Karli, Araz Gafarli
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Poster: SCI-049
ECTOTIC THYROID AND THYMUS TISSUE AT THE SUBMANDIBULAR REGION IN A PRE-SCHOOL MALE PATIENT
Zuhal Bayramoglu, Sinan Seyrek, Araz Gafarli, Ezgi Kara
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Poster: SCI-050
DISSEMINATED HYDATID CYST DISEASE
Zuhal Bayramoglu, Rana Gunoz Comert
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Poster: SCI-051
RESPONSE OF THE MEDIASTINAL INFLAMMATORY PSEUDOTUMOR TO THE MEDICAL TREATMENT
Zuhal Bayramoglu, Hazal Elif Karli
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Poster: SCI-052
RADIOLOGICAL FINDINGS OF PULMONARY CHRONIC GRANULOMATOUS DISEASE IN AN ADOLESCENT MALE PATIENT
Zuhal Bayramoglu, Rana Gunoz Comert
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Poster: SCI-053
CLASSIFICATION OF PEDIATRIC CYSTIC AND CAVITATORY LESION IN LUNG USING COMPUTED TOMOGRAPHY AND ULTRASONOGRAPHY
Shramana Bagchi
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Poster: SCI-054
THE DIAGNOSTIC PERFORMANCE OF CHEST COMPUTED TOMOGRAPHY IN THE DETECTION OF RIB FRACTURES IN CHILDREN INVESTIGATED FOR SUSPECTED PHYSICAL ABUSE: A SYSTEMATIC REVIEW AND META-ANALYSIS

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Poster: SCI-055
CONTRAST-ENHANCED ULTRASOUND (CEUS) IN PEDIATRIC RADIOLOGY: WHERE WE ARE AND WHERE WE GO?

Luca Basso 1, Fiammetta Sertorio 1, Elena Arkhangelskaya 1, Francesca Rizzo 1, Elisabetta Vignale 1, Francesco Pasetti 1, Nicola Stagnaro 1, Marta Pongiglione 1, Maura Valle 1, Francesca Magnaguagno 1, Elena Aleo 1, Valentina Prino 1, Anna Marzoli 1, Francesca Nardi 1, Lorenzo Anfisgeno 2, Silvia Pamparino 2, Martina Fiannacca 2, Sara Perissi 2, Marcello Carlucci 3, Stefano Avanzini 3, Michela Wong 3, Luca Pio 3, Girolamo Mattioli 3, Giorgio Piaggio 3, Marialudovica Degl’innocenti 4, Gian Marco Ghiggeri 4, Emanuela Piccotti 5, Andrea Moscatelli 6, Maria Beatrice Damasio 1
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Poster: SCI-056
WHEN LIFE DOES NOT GIVE YOU LEMONS...

Jessa M. Tunacao, Johanna Monsalve, Joye Wang, Farzana Nuruzzaman
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Poster: SCI-057
DETECTION OF SOFT TISSUE FOREIGN BODIES IN CHILDREN USING ULTRASONOGRAPHY

Alexander Sheeka, Richard Jenkins, Stacey Castle, Sufi Sadigh
Imperial College Healthcare, London, UNITED KINGDOM

Poster: SCI-058
THE PEDIATRIC OVERNIGHT CALL CONUNDRUM: OPTIMIZING EXPERTISE AND DECREASING BURNOUT

Michael Frazier, Christina Cinelli, Jennifer Talmadge
Maine Medical Center, Portland, USA
**Poster: SCI-059**
PLUNGING RANULA IN CHILDREN: DIAGNOSIS BY CROSS-SECTIONAL IMAGING
Diksha Diksha, Pareekshith Bhat
Kasturba Medical College, Mangalore, INDIA

**Poster: SCI-060**
OPTIMIZING UTILIZATION OF ULTRASOUND, MRI, AND PLAIN FILM USE IN PEDIATRIC SICKLE CELL PATIENTS
William Nolan Di Dickson ¹, Cynthia Hanemann ¹, Gerard Ballanco ¹, Sarah Long ¹, Carol Becker ², Maria-Gisela Mercado-Deane ²
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**Poster: SCI-061**
HANDS-ON ULTRASOUND TRAINING FOR RADIOLOGY RESIDENTS: THE IMPACT OF AN ULTRASOUND SCANNING CURRICULUM
Maria Velez-Florez ¹, Shauna Dougherty ¹, Michelle Retrouvey ¹, Hailu Tigist ¹, Abigail Ginader ¹, Nicole Bodo ¹, Janet Reid ¹, Ami Gokli ²
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**Poster: SCI-062**
The Impact of Integrating Radiology Didactics in Clerkship Curricula
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**Poster: SCI-063**
Presentation to Publication Revisited: Trends in Publication Rate of Oral Presentations from ESPR, SPR, and IPR
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**Poster: SCI-064**
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Poster: SCI-065
FELLOWS-DRIVEN VIRTUAL EDUCATION DURING A PANDEMIC: A PILOT PROJECT
Alexander El-Ali 1, Amy Mehollin-Ray 2, Eric Crotty 3, Arnold Carlson Merrow 3, Janet Reid 4, Ami Gokli 5
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3 Cincinnati Children’s Hospital Medical Center, Cincinnati, USA
4 Children’s Hospital of Philadelphia, Philadelphia, USA
5 Staten Island University Hospital | Northwell Health, New York City, USA

Poster: SCI-066
INTRODUCING AND INTEGRATING MINDFULNESS WITHIN THE RADIOLOGY RESIDENCY EDUCATION
Rita Sico, Amisha Shah, Erica Kar, Priya Paltel, Marion Hughes
UPMC Children’s Hospital, Pittsburgh, USA

Poster: SCI-067
USELESS AND LIMITS OF POST MORTEM COMPUTER TOMOGRAPHY (PMCT) IN A CASE OF INFANT MURDER IN A PRETERM.
Ilaria Viola 1, Giuseppe Lo Re 1, Giovanni De Lisi 2, Michele Santoro 3, Emiliano Maresi 2, Sergio Salerno 1
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Poster: SCI-068
UTILIZATION OF POSTMORTEM IMAGING IN NORTH AMERICA
Mary Harty, Sharon Gould, Lauren Ayers, H. Theodore Harcke
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Poster: SCI-069
THE PANDEMIC’S EFFECT ON RESIDENT PEDIATRIC RADIOLOGY EDUCATION AS MEASURED BY INDEPENDENT CALL PERFORMANCE
Lynn Della Grotta, George Koberlein
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Poster: SCI-070
CONGENITAL IMMATURE TERATOMA OF THE THYROID: A MULTIMODAL IMAGING APPROACH
Jose Maria Ulloa-Gonzalez 1, Abraham Reynoso-Topete 1, Monica Hassel Gomez-Sahagun 2, Eva Maria Alba-Garcia 2, Gonzalo Ramos-Rubio 3, Claudia Mendoza-Cerpa 3
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Poster: SCI-071
FETAL THROMBOSIS OF THE TORCULAR HEROPHILI
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Poster: SCI-072
PRENATAL IMAGING OF CONGENITAL EPULIS
Christoph Meissner 1, Stephanie Spieth 1, Chahit Birdir 2, Gabriele Hahn 1, Ralf-Thorsten Hoffmann 1
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Poster: SCI-073
RETROSPECTIVE MOTION CORRECTION IN FETAL MRI: HOW TO IMAGE A MOVING TARGET
Fedel Machado Rivas, Clemente Velasco-Annis, Onur Afacan, Simon K. Warfield, Ali Gholipour, Camilo Jaimes
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Poster: SCI-074
CASE REPORT OF ZELLWEGER SYNDROME DIAGNOSED BY FETAL MRI
Joana Diaz 1, Matsumoto Larry 2, Kucera Jennifer 2
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Poster: SCI-075
FETAL MR IMAGING OF CRANIOPAGUS
Kriti Gwal, Garrick Biddle, Arzu Ozturk, Osama Raslan, Jennifer Chang
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Poster: SCI-076
DURAL SINUS MALFORMATION: A CASE SERIES WITH A FOCUS ON FETAL IMAGING
Thomas Richard Verhage 1, Javier Quintana 1, Jennifer Kucera 2
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**Poster: SCI-077**

**ASSESSMENT OF MEDIASTINAL SHIFT ANGLE IN CONGENITAL PULMONARY AIRWAY MALFORMATION: A NEW FETAL MRI INDICATOR OF CONGENITAL LUNG DISEASE**

Jun Tsukamoto 1, Osamu Miyazaki 1, Yuki Saito 1, Saho Irahara 1, Reiko Okamoto 1, Mikiko Miyasaka 1, Yoshiyuki Tsutsumi 1, Yushi Ito 2, Haruhiko Sago 2, Yutaka Kanamori 3, Yoshiko Hayashida 4, Takatoshi Aoki 4, Shunsuke Nosaka 1

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**Poster: SCI-078**

**INVESTIGATION OF MRI CRITERIA DETERMINING THE RISK OF MAJOR POSTPARTUM HEMORRHAGE IN PATIENTS WITH PLACENTA ACCRETA SPECTRUM AND PLACENTA PREVIA**

Elena Semenova, Polina Kozlova, Irina Mashchenko, Elena Vyshedkevich, Gennadiy Trufanov

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**Poster: SCI-079**

**THREE FOETUSES WITH MOLAR TOOTH SIGN IN MRI**

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**Poster: SCI-080**

**THREE MRI CASES OF FOETUSES WITH SEVERE VENTRICULOMEGALY AND DIENCEPHALIC-MESENCEPHALIC JUNCTION DYSPLASIA**

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**Poster: SCI-081**

**MRI CONTRIBUTION TO THE PRENATAL DIAGNOSIS OF THE MOST FREQUENT CONGENITAL VASCULAR ANOMALIES: LYMPHATIC MALFORMATIONS AND CONGENITAL HEMANGIOMAS**

Laurence Crivelli 1, Anne-Elodie Millischer 2, Pascale Sonigo 2, David Grévent 2, Sylviane Hanquinet 3, Yvan Vial 1, Leonor Alamo 1

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**Poster: SCI-082**

**3D PRINTED TRAINING SIMULATION FOR PEDIATRIC UPPER GI FLUOROSCOPY**

Jacob Wallace, Kamran Ali, Debbie Desilet-Dobbs, Charles Mcguire, Adam Zarchan

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**Poster: SCI-083**
THE MECKEL’S DIVERTICULUM AND ITS COMPLICATIONS - PICTORIAL REVIEW OF IMAGING FINDINGS
Timothy Shao Ern Tan, Harvey Eu Leong Teo
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**Poster: SCI-085**
COLORECTAL DUPLICATION: A RARE CASE WITH RADIOLOGICAL AND SURGICAL CORRELATION
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**Poster: SCI-086**
IMAGING “TWISTS” IN VOLVULUS AROUND MECKEL’S DIVERTICULUM – A CASE SERIES INCLUDING US, CT AND MRI WITH DWI
Ione Limantoro 1, Arash Eftekhar 2, Sonia Butterworth 1, Daniel Rosenbaum 1, Heather Bray 1
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2 Surrey Memorial Hospital, Surrey, CANADA

**Poster: SCI-087**
NEW SONOGRAPHIC SIGNS IN NEONATES WITH NECROTIZING ENTEROCOLITIS
Catalina Le Cacheux, Alan Daneman, Agostino Pierro, Christopher Tomlinson, Ricardo Faingold
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**Poster: SCI-088**
THE SPECTRUM OF IMAGING FINDINGS IN PIMS-TS (MIS-C) PRESENTING AS AN ACUTE ABDOMEN TO A TERTIARY PAEDIATRIC HOSPITAL
Harsimran Laidlow-Singh, Charlotte A. Roberts, Jonathan Colledge, Anoushka Ljutikov
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**Poster: SCI-089**
PAEDIATRIC SPLENIC LESIONS – A CASE SERIES FROM A BUSY LONDON HOSPITAL
Richard Jenkins, Stacey Castle, Alex Sheeka, Afshin Alavi
Imperial NHS, London, UNITED KINGDOM

**Poster: SCI-090**
PANCREATIC PSEUDOPAPILLARY TUMOR: A CASE REPORT
Madelinne Granados Macias, Angie Becerra Cervantes, Jesus Maldonado Rayas
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**Poster: SCI-091**
UNUSUAL CYSTIC LESIONS IN THE PEDIATRIC ABDOMEN AND PELVIS: HOW COMMON IS UNCOMMON
Aljoharah Aljabr, Gali Shapira, Nagwa Wilson
Children hospital of eastern Ontario, ottawa, CANADA
Poster: SCI-092
THE ASSESSMENT OF MRE IN PAEDIATRIC PATIENTS WITH CLINICAL SYMPTOMS SUGGESTING CROHN’S DISEASE
Monika Zbroja 1, Maryla Kuczynska 3, Weronika Cyranka 1, Karolina Siejka 2, Małgorzata Nowakowska 2, Magdalena Grzegorczyk 2, Monika Piekarska 3, Agnieszka Brodzisz 4, Magdalena Wozniak 4
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Poster: SCI-093
A REVIEW OF THE SPECTRUM OF INCIDENTAL FOCAL LIVER LESIONS REFERRED TO A TERTIARY REFERRAL PAEDIATRIC HEPATOBILIARY UNIT
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Poster: SCI-094
DIAGNOSTIC EFFICIENCY OF ULTRASOUND FOR INTESTINAL MALROTATION IN INFANTS: EXPERIENCE FROM A TERTIARY CHILDREN’S HOSPITAL
Makhethe Vuma 1, Luis Octavio Tierradentro-García 1, Rebecca Dennis 1, Asef Khwaja 1, Alireza Zandifar 1, Kassa Darge 1, Sudha Anupindi 1, Thane A. Blinman 2, Misun Hwang 1
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Poster: SCI-095
DIAGNOSING MIDGUT VOLVULUS IN INFANTS
Luis Octavio Tierradentro-García 1, Rebecca Dennis 1, Asef Khwaja 1, Makhethe Vuma 1, Alireza Zandifar 1, Kassa Darge 1, Sudha Anupindi 1, Thane A. Blinman 2, Misun Hwang 1
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Poster: SCI-096
MAKING INTUSSUSCEPTION REDUCTIONS EASIER: USE OF MEDICAL AIR IN LIEU OF MANUAL PUMP IPR 2021
Elizabeth Snyder, Marta Hernanz-Schulman, Sumit Pruthi
Monroe Carell Jr. Children’s Hospital at Vanderbilt, Nashville, USA

Poster: SCI-097
LIMITED RANGE CT FOR RADIATION REDUCTION IN CHILDREN WITH SUSPECTED APPENDICITIS
Vanessa Rameh 1, Farah Abi Zeid 1, Christel Tamer 2, Hala Khasawneh 3, Lara Nassar 1, Lamya Ann Atweh 1
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**Poster: SCI-098**

**UTILIZATION OF ABDOMINAL ULTRASOUND AND MOST COMMON SONOGRAPHIC FEATURES OF ACUTE PANCREATITIS IN PEDIATRIC PATIENTS**

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**Poster: SCI-099**

**IMAGING EVALUATION FOR G-TUBE COMPLICATIONS IN THE PEDIATRIC ED: FLUOROSCOPY VS TWO-VIEW RADIOGRAPHS**

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**Poster: SCI-100**

**WHERE’S THE APPENDIX? CONTRIBUTING FACTORS FOR VISUALISATION OF THE APPENDIX ON ULTRASOUND IN THE PAEDIATRIC POPULATION**

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**Poster: SCI-101**

**ATTENUATION COEFFICIENT MEASUREMENT USING HIGH FREQUENCY TRANSDUCER FOR SMALL CHILDREN**

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**Poster: SCI-102**

**THE SIGNIFICANCE OF INTRAMURAL AND INTRALUMINAL CALCIFICATION OF THE INTESTINE ON SONOGRAPHY IN NEONATES WITH CONGENITAL INTESTINAL OBSTRUCTION**

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**Poster: SCI-103**

ATTENUATION COEFFICIENT MEASUREMENT USING HIGH FREQUENCY TRANSDUCER FOR CHILDREN WITH FATTY LIVER

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**Poster: SCI-104**

TITLE: ESTABLISHMENT OF LOCAL DIAGNOSTIC REFERENCE LEVELS OF PEDIATRIC ABDOMINOPELVIC AND CHEST CT EXAMINATIONS BASED ON BODY WEIGHT AND SIZE IN SOUTH KOREA

Jae-Yeon Hwang 1, Young Hun Choi 2, Hee Mang Yoon 3, Young Jin Ryu 4, Hyun Joo Shin 5, Hyun Gi Kim 6, So Mi Lee 7, Sun Kyung You 8, Ji Eun Park 9

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**Poster: SCI-105**

UTILITY OF COMPUTED TOMOGRAPHY FOR EVALUATION OF SMALL BOWEL ROTATION

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Poster: SCI-106
SENSITIVITY OF CONTRAST-ENHANCED ULTRASOUND VERSUS CT IN DETECTION OF SOLID ORGAN INJURIES FROM BLUNT ABDOMINAL TRAUMA IN YOUNG CHILDREN
M. Katherine Henry ¹, Joanne N. Wood ², Aaron E. Chen ², Kassa Darge ¹, Teniola Egbe ³, Mohamed Elsingery ¹, Victor Ho-Fung ¹, Summer Kaplan ¹, Jenny Y. Kloss ⁴, Michael L. Nance ⁴, Philip V. Scribano ², Susan J. Back ¹
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Poster: SCI-107
ASSESSING THE VALUE OF A COMBINED MR ENTEROGRAPHY-PERIANAL MRI PROTOCOL IN THE EVALUATION OF SMALL BOWEL AND PERIANAL DISEASE IN PEDIATRIC CROHN’S DISEASE PATIENTS
Samantha Harrington, Gary Wang, Katherine Nimkin, Michael Gee
Massachusetts General Hospital, Boston, USA

Poster: SCI-108
UTILIZATION OF EOS IMAGING FOR EVALUATION OF BOWEL MANAGEMENT AND RADIATION DOSE REDUCTION
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Poster: SCI-109
DIAGNOSTIC PERFORMANCE OF ULTRASOUND HEPATORENAL INDEX AS A QUANTITATIVE MEASURE OF PEDIATRIC FATTY LIVER DISEASE AND COMPARISON TO FIVE HUMAN RADIOLOGISTS
Michael Frankland ¹, Jonathan Dillman ², Christopher Anton ², Brian Coley ², Michael Nasser ², Sara O’hara ², Yinan Li ², Andrew Trout ²
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Poster: SCI-110
FREQUENCY OF DUODENAL ANATOMICAL VARIANTS IN NEONATAL AND PEDIATRIC UPPER GASTROINTESTINAL TRACT SERIES (UGI) AND THE INFLUENCE OF EXAM QUALITY ON DIAGNOSTIC REPORTING
Mohamed Elsingery, Juan S. Calle Toro, Rebecca Dennis, Daphine Grassi, Hansel Otero, Savvas Andronikou
The Children’s Hospital of Philadelphia, Department of Radiology, Philadelphia, USA

Poster: SCI-111
FACTORS AFFECTING THE SUCCESS OF AIR ENEMA REDUCTION OF INTUSSUSCEPTION IN CHILDREN. WHAT STARTING PRESSURE?
Heba Elbaaly Elbaaly, Marie-Claude Miron, Ramy El Jalbout, Amélie Damphousse, Chantale Lapiere, Josée Dubois
Medical Imaging Department, CHU Sainte-Justine, Montréal, CANADA
**Poster: SCI-112**  
**IS ORAL CONTRAST BENEFICIAL FOR VISUALIZATION OF THE APPENDIX IN LOW-WEIGHT CHILDREN?**  
Gali Shapira-Zalstberg, Maria Fernanda Dien Esquivel, Nicholas Mitsakakis, Lamia Hayawi, Elka Miller  
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**Poster: SCI-113**  
**REFERENCE RANGES OF AGE-BASED LIVER, SPLEEN, PANCREAS AND KIDNEY SIZE IN CHILDREN IN CONJUNCTION WITH WAIST CIRCUMFERENCE**  
Zuhal Bayramoglu, Hakan Ayyildiz, Berke Ersoy  
Istanbul University, Istanbul Medical Faculty, Pediatric Radiology Department, ISTANBUL, TURKEY

**Poster: SCI-114**  
**ABDOMINAL IMAGING FINDINGS OF BASIDIBOLOMYCOSIS IN CHILDREN**  
Abeer Almehdar, Nesreen Abourokbah, Hetaf Alsrhan  
King Saud Bin Abdulaziz University for Health Sciences, Jeddah, SAUDI ARABIA

**Poster: SCI-115**  
**CONGENITAL VITELLINE BAND CAUSING INTESTINAL OBSTRUCTION IN A 15 YEAR OLD BOY - A DIAGNOSTIC CHALLENGE FOR HIGH-FREQUENCY SONOGRAPHY**  
Eleni Koutrouveli, Rodanthi Sfakiotaki, Irene Vraka, Marina Vakaki, Georgios Daniil, Anna Chountala, Chrysoula Koumanidou  
1 Children’s Hospital of Athens P&A Kyriakou, Athens, GREECE  
2 General Hospital of Thessaloniki G. Gennimatas, Thessaloniki, GREECE

**Poster: SCI-116**  
**SPATIAL ENTROPY OF THE LIVER IN SICKLE CELL DISEASE PEDIATRIC PATIENTS: A HIGHER SPATIAL RESOLUTION SURROGATE TO T2*-BASED LIC MEASURES**  
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2 Department of Mechanical Engineering, Boston University, Boston, USA

**Poster: SCI-117**  
**FOLLOW-UP ULTRASONOGRAPHIC FINDINGS AMONG CHILDREN WITH UNCOMPLICATED, ACUTE APPENDICITIS, MANAGED CONSERVATIVELY**  
Rodica Stackievicz, Rotem Milner, Hasan Haskiya, Myriam Werner, Shmuel Arnon, Zvi Steiner  
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Poster: SCI-118
SONOGRAPHIC FINDINGS OF COMPLICATED AMYAND’S HERNIA IN A NEONATE. A SCROTAL ABSCESS WITH A RARE CAUSE THAT WE SHOULD BE AWARE OF
Rodanthi Sfakiotaki 1, Irene Vraka 1, Anna Chountala 1, Marina Vakaki 1, Eleni Koutrouveli 1, Georgios Daniil 2, Chrysooula Koumanidou 1
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Poster: SCI-119
CAN SONOGRAPHIC ABDOMINAL FINDINGS COMPLETE THE CRITERIA FOR THE DIAGNOSIS OF MIS-C? A NON-SPECIFIC IMAGE THAT DEVELOPS INTO A PATTERN
Rodanthi Sfakiotaki 1, Irene Vraka 1, Anna Chountala 1, Eleni Koutrouveli 1, Marina Vakaki 1, Georgios Daniil 2, Christina Zouridaki 1, Chrysooula Koumanidou 1
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Poster: SCI-120
NON-INVASIVE BIOMARKERS OF NAFLD IN ASYMPTOMATIC SCHOOL-AGED VOLUNTEERS
Maria Raissaki 1, Stavros Charalambous 1, Georgios Kalaitzakis 1, Marina Vafeiadi 2, Katerina Margetaki 2, Theano Roumeliotaki 2, Nikos Stratakis 3, Leda Chatzi 3, Thomas G. Maris 1
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Poster: SCI-121
REDUCING RADIOGRAPHS AFTER CROSS-SECTIONAL IMAGING IN PEDIATRIC TRAUMA TO REDUCE RADIATION EXPOSURE
Jonathan Phuong, Jena Fujimoto, Samuel Yap, Rebecca Stein-Wexler
University of California, Davis, Sacramento, USA

Poster: SCI-122
SHOULD POSTNATAL ULTRASOUND BE PERFORMED WHEN ISOLATED ECHOGENIC BOWEL HAS BEEN REPORTED ON THE ANTENATAL ULTRASOUND?
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3 Northwick Park Hospital, Harrow, UNITED KINGDOM
Poster: SCI-123
AN OBSERVATION OF UPPER GI CONTRAST STUDIES IN 3 IRISH PAEDIATRIC HOSPITALS DURING THE COVID-19 PANDEMIC IN IRELAND
Ailbhe Mcdermott 1, Caolfhionn Ni Leidhin 1, Ailbhe Tarrant 2, Angela T. Byrne 3, Stephanie Ryan 2, Gabrielle Colleran 4
1 Children’s Health Ireland at Temple Street, Dublin, IRELAND
2 Children’s Health Ireland at Temple Street and The Rotunda Hospital, Dublin, IRELAND
3 Children’s Health Ireland at Crumlin, Dublin, IRELAND
4 Children’s Health Ireland at Temple Street and The National Maternity Hospital, Dublin, IRELAND

Poster: SCI-125
DETERMINING ACUTE APPENDICITIS IN PEDIATRIC PATIENTS: COMPARING RISK PREDICTABILITY AMONG CLINICAL ASSESSMENT SCORES AND DIAGNOSTIC IMAGING
Donald Lee
Staten Island University Hospital, Staten Island, USA

Poster: SCI-126
MAGNET INGESTION IN THE PAEDIATRIC POPULATION – OUR EXPERIENCE IN ALDER HEY CHILDREN’S HOSPITAL
Ahmed Khoujali 2, Almuzamel Khair 1, Caren Landes 1
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2 Kettering General Hospital NHS Foundation Trust, Liverpool, UNITED KINGDOM

Poster: SCI-127
RECTOURETHRAL FISTULA IN ANORECTAL MALFORMATIONS: AN AUSTRALIAN PERSPECTIVE ON PREVALENCE AND DETECTION ON MEDICAL IMAGING
Timothy James Jeffery, Richard Warne
Perth Childrens Hospital, Perth, AUSTRALIA

Poster: SCI-128
DIAGNOSTIC ACCURACY OF INCREASED LIVER ECHOCGENICITY AS A MARKER FOR STEATOSIS IN CHILDHOOD OBESITY
Eric Graham, Monique Riemann, Smita Bailey
Phoenix Children’s Hospital, Phoenix, USA

Poster: SCI-129
AUTOIMMUNE PANCREATITIS IN PEDIATRIC GROUP
Berrin Demir 1, Sukriye Yilmaz 1, Birsel Sen Akova 1, Ceyda Tuna Kirsacioglu 2, Zarife Kuloglu 2, Suat Fitoz 1
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Poster: SCI-130
INTER-RADIOLOGIST VARIABILITY IN REPORTING SONOGRAPHIC MEASUREMENTS OF THE PEDIATRIC LIVER: A CONUNDRUM OF HEPATOMEGALY PROPORTIONS
Pouria Koushesh 1, Joseph Cao 2, Cory Pfeifer 2
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**Poster: SCI-131**

**PRIMARY ADRENAL SCHWANNOMA**
Zuhal Bayramoglu, Elif Hazal Karli
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**Poster: SCI-132**

**UNUSUAL IMAGING PRESENTATION OF WOLMAN DISEASE**
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5 King Abdulaziz University Hospital, Division of General Pediatrics, Department of Pediatrics, Jeddah, SAUDI ARABIA

**Poster: SCI-133**

**IMAGING APPROACH TO SUSPECTED FOREIGN BODY INGESTION IN CHILDREN**
Oluseyi Adesalu 1, Sayani Khara 1, Erica Makin 2, Omowunmi Akindolie 3, Firas Sa’adedin 4, Andreas Panayiotou 1, Saira Haque 1
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3 King’s College Hospital Department of Paediatrics, London, UNITED KINGDOM
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**Poster: SCI-134**

**OVARIAN TORSIONS IN CHILDREN**
Clarissa Valle 1, Pietro Andrea Bonaffini 1,3, Francesco Lacanna 2, Elvira Zaranko 2, Davide Dalla Rosa 2, Maurizio Cheli 2, Sandro Sironi 1,3
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**Poster: SCI-135**

**PELVIC PAIN IN FEMALE CHILDREN AND ADOLESCENTS: NOT JUST APPENDICITIS**
Georgia Papaioannou, Evaggelia Manopoulou, Loukia Tzarouchi, Christina Meleti, Georgios Manganas, Panagiotis Tagalakis, Spyros Yarmentitis
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**Poster: SCI-136**

**THE IMAGING APPEARANCE OF RARE-EARTH NEODYMIUM MAGNETS**
Michael Coker, Morgan Mcbee
Medical University of South Carolina, Charleston, USA
**Poster: SCI-137**
A CASE OF SERTOLI-LEYDIG CELL TUMOR WITH INTRA-ABDOMINAL RECURRENCE IN A PATIENT WITH A DICER1 GENE MUTATION
Sana Basseri, Denise A. Castro, Don Soboleski
Queen’s University, Kingston Health Sciences Centre, Department of Diagnostic Imaging, Kingston, CANADA

**Poster: SCI-138**
ROLE OF RI OF INTRA-RENAL ARTERIES IN CONGENITAL HYDRONEPHROSIS
Shramana Bagchi, Vinodh D
Indira Gandhi Institute of Child Health, Bangalore, INDIA

**Poster: SCI-139**
OVARIAN CYSTIC LESIONS IN FEMALE PEDIATRIC POPULATION: LOCAL TERTIARY CENTER EXPERIENCE
Azza Yosuph, Amna Kashgari, Amin Alzahrani
King Abdullah Specialist Children Hospital, Riyadh, SAUDI ARABIA

**Poster: SCI-140**
THE MORE WE BECOME FAMILIAR WITH THE NUTCRACKER SYNDROME, THE MORE WE ADD SONOGRAPHIC DIAGNOSTIC CLUES
Marina Vakaki, Anna Chountala, Eleni Koutrouveli, Rodanthi Sfakiotaki, Irene Vraka, Despina Pitsoulaki, Ekaterini Haritou, Christina Zouridaki, Chrisoula Koumanidou
Children Hospital P and A.Kyriakou Radiology Department, Athens, GREECE

**Poster: SCI-141**
CORRELATION OF ECHOGENICITY OF THE RENAL MEDULLA TO RENAL FUNCTION TESTS IN CHILDREN WITH SICKLE CELL DISEASE
Patrick Tivnan ¹, Bindu N. Setty ¹, Amy Sobota ², Ilse Castro-Aragon ¹
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**Poster: SCI-142**
COMPARISON STUDY OF REAL-TIME CONTRAST-ENHANCED VOIDING ULTRASONOGRAPHY WITH DMSA RENAL SCAN IN CHILDREN
Saelin Oh ¹, Ji Young Ha ²
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**Poster: SCI-143**
NOVEL USE OF CONTRAST-ENHANCED MAGNETIC RESONANCE MICTURATING CYSTOURETROGRAM IN DEPICTING ANO-URETHRAL FISTULA IN A PEDIATRIC PATIENT
Carol Ng, Yu Hin Lam, Chris Kwok Chun Wong, Yee Ling Elaine Kan, Mei Yu Poon
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Poster: SCI-144
INTEROBSERVER AGREEMENT IN DIAGNOSTIC IMAGING IN EVALUATION OF CONGENITAL FEMALE GENITAL TRACT ANOMALIES USING ESHRE/ESGE CLASSIFICATION
Faizah Mohd Zaki Mohd Zaki, Wooi Kee Chiam, Nur Azurah Abdul Ghani, Suraya Abd Aziz, Erica Wong Yee Hing, Marjmin Osman, Dayang Anita Aziz
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3 Pediatric Surgery Unit, Department of Surgery, UKM Medical Center, Kuala Lumpur, MALAYSIA

Poster: SCI-145
IMAGING FINDINGS IN 46 XY DISORDERS OF SEXUAL DEVELOPMENT
Evelyn Lankester, Heather Bray, Lydia Bajno
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Poster: SCI-146
VIABILITY OF CONTRAST ENHANCED VOIDING UROSONOGRAPHY AS AN ALTERNATIVE TO FLUOROSCOPY FOR URODYNAMICS
Nicole Kapral, Reza Daugherty
University of Virginia, Charlottesville, USA

Poster: SCI-147
DYNAMIC CONTRAST ENHANCED ULTRASOUND (DYN-CEUS) FOR ANALYZING OVARIAN MASSES IN CHILDREN AND ADOLESCENTS
Katja Glutig, Paul Christian Krüger, Matthias Waginger, Hans-Joachim Mentzel
Section of Pediatric Radiology, Institute of Diagnostic and Interventional Radiology, Jena University Hospital, Jena, GERMANY

Poster: SCI-148
UTERINE ADENOMYOSIS IN AN ADOLESCENT GIRL
Zuhal Bayramoglu, Ezgi Kara, Rana Gunoz Comert, Hazal Elif Karli
Istanbul University, Istanbul Medical Faculty, Radiology Department, Istanbul, TURKEY

Poster: SCI-149
LENGTH OF BOWEL REST DOES NOT PREDICT RISK FOR GASTROJEJUNOSTOMY RELATED INTUSSUSCEPTION RECURRENCE
Fikadu Woreda Worede, Mohamed Elsingergy, Anne Marie Cahill, Michael Acord
Children’s Hospital of Philadelphia, Philadelphia, USA
**Poster: SCI-150**

**PRESURGICAL ENDOVASCULAR EMBOLIZATION OF GIANT PEDIATRIC MENINGIOMA: CASE REPORT**

Andrea Paola González Rodríguez ¹, Marco Antonio Díaz Montoya ², Georgina Gómez Gallardo ³, Gil Badallo Rivas ³, Carlos Humberto González Rodríguez ⁴, Marco Antonio Olvera Olvera ⁵

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**Poster: SCI-151**

**LARGE PORTAL VENOUS PSEUDOANEURYSM IN A PEDIATRIC LIVER TRANSPLANT PATIENT WITH SUCCESSFUL CLOSURE USING A BALLOON EXPANDABLE COVERED STENT**

Max American ¹, Jonathan Jo ², Jesse Courtier ², Matthew Zapala ², K. Pallav Kolli ², Rachelle Durand ¹, ²

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**Poster: SCI-152**

**IMAGING AND MANAGEMENT OF PAEDIATRIC ARTERIOVENOUS MALFORMATION – AN INTERVENTIONAL RADIOLOGICAL PERSPECTIVE**

Rajan Aggarwal, Muthusubramanian Rajasekaran, Salil Pandey, Suresh A

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**Poster: SCI-153**

**PERCUTANEOUS CRYOABLATION FOR THE TREATMENT OF PRIMARY AND RECURRENT PEDIATRIC AND ADOLESCENT CHONDROBLASTOMA**

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**Poster: SCI-154**

**WHEN CROHN’S COMES TO RADIOLOGIST: VALUE OF MRE AND US IN CHILDREN**

Monika Piekarska ¹, Maryla Kuczynska ¹, Małgorzata Nowakowska ¹, Karolina Siejka ¹, Magdalena Grzegorczyk ¹, Monika Zbroja ¹, Weronika Cyranka ¹, Agnieszka Brodzisz ², Magdalena Maria Wozniak ²

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Poster: SCI-155
PERCUTANEOUS, IMAGE-GUIDED TREATMENT OF ANEURYSMAL BONE CYSTS (ABCS): IS THERE A SUPERIOR TREATMENT OPTION?
C. Matthew Hawkins, Anne Gill
Children’s Healthcare of Atlanta, Emory University School of Medicine, Atlanta, USA

Poster: SCI-156
TISSUE SAMPLING IN CHILDREN – THE “PATH” LESS TRAVELLED
Marian Gaballah 1, Ganesh Krishnamurthy 1,2, Michael Acord 1,2, Fernando Escobar 1,2, Abhay Srinivasan 1,2, Seth Vatsky 1,2
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Poster: SCI-157
INTRA-ABDOMINAL LYMPHATIC MALFORMATION MANAGEMENT IN LIGHT OF THE UPDATED INTERNATIONAL SOCIETY FOR THE STUDY OF VASCULAR ANOMALIES
Heba Elbaaly Elbaaly 1, Nelson Piché 2, Françoise Rypens 1, Niina Kleiber 3, Chantale Lapière 1, Josée Dubois 1
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2 Surgery Department, CHU Sainte-Justine, Montréal, CANADA
3 Pediatrics Department, CHU Sainte-Justine, Montréal, CANADA

Poster: SCI-158
COVID-19 and MIS-C, A Year in Review: Global Contributions of Interventional Radiology to the Care of Pediatric Patients
Tina Sankhla, Morgan Whitmore, Mohammed Loya, Jay Shah
Emory University, Department of Radiology and Imaging Sciences, Atlanta, USA

Poster: SCI-159
LOWER EXTREMITY DEEP VENOUS THROMBOSIS CATHETER-DIRECTED THROMBOLYSIS IN PEDIATRIC PATIENTS: SINGLE-CENTER EXPERIENCE
Jonathon Weber, Nathan Fagan, Manish Patel
Cincinnati Children’s Hospital Medical Center - Department of Radiology, Cincinnati, USA

Poster: SCI-160
FUSION OF INTRAPROCEDURAL CONE BEAM CT AND PRE-PROCEDURAL MRI IMAGES FOR THE EVALUATION OF COMPLETENESS OF KNEE JOINT VENOUS MALFORMATION EMBOLIZATION
Elena Violari, John Cieslak, Victoria Young, Matthew Lungren, Avnesh Thakor, Shellie Josephs
Stanford, Lucile Packard Children’s Hospital, Palo Alto, USA

Poster: SCI-161
ATTEMPTED PLUG EMBOLISATION OF A CONGENITAL PORTOSYSTEMIC SHUNT WITH SUBSEQUENT EMBOLISATION INTO THE PULMONARY ARTERY AND SUCCESSFUL ENDOVASCULAR SNARE RETRIEVAL
Nasim Tahir, Ellen Collingwood, Jai Patel
Leeds Children’s Hospital, Leeds, UNITED KINGDOM
**Poster: SCI-162**  
ADDED VALUE OF CONTRAST ENHANCED ULTRASOUND (CEUS) IN THE DIAGNOSIS OF SPLENIC ARTERY PSEUDOANEURYSM  
Peter Slak, Domen Plut  
Department of Pediatric Radiology, Clinical Radiology Institute, University Medical Centre, Ljubljana, SLOVENIA

**Poster: SCI-163**  
Lee Seunghyun, Hur Saebeom, Yeon Jin Cho, Young Hun Choi, Seul Bi Lee, Jung-Eun Cheon, Woo Sun Kim  
Seoul National University Children’s Hospital, Seoul, SOUTH KOREA

**Poster: SCI-164**  
CONE-BEAM COMPUTED TOMOGRAPHY GUIDANCE FOR PEDIATRIC BONE BIOPSIES  
Lavi Nissim, Scott Willard, Richard Towbin, David Aria  
Phoenix Children’s Hospital, Phoenix, USA MINOR OUTLYING ISLANDS

**Poster: SCI-165**  
SINGLE-CENTER, RETROSPECTIVE STUDY OF OUTCOMES IN PEDIATRIC HEREDITARY HEMORRHAGIC TELANGIECTASIA PATIENTS FOLLOWING PULMONARY ARTERIOVENOUS MALFORMATION EMBOLIZATION  
Viet Le 1, Nathan Fagan 1, Adrienne Hammill 1, Katie Wusik 1, Ross Ristagno 2, Manish Patel 1  
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2 University of Cincinnati, Cincinnati, USA

**Poster: SCI-167**  
ASSESSMENT OF THE SUPERIOR MESENTERIC ARTERY ANGLE IN THE PEDIATRIC GROUP ON COMPUTED TOMOGRAPHY (CT) SCAN: VALUES IN DIFFERENT AGE GROUPS, GENDER AND (BODY MASS INDEX) BMI CATEGORIES  
Shaima Aleid, Asrar Alzaher  
King Fahad Specialist Hospital, Dammam, SAUDI ARABIA

**Poster: SCI-168**  
PEDIATRIC PALEORADIOLOGY: WHAT IT IS AND WHY WE SHOULD GET INVOLVED  
Katherine Van Schaik 1, Andy Tsai 2, Maria Liston 3  
1 Beth Israiel Deaconess Medical Center/Harvard Medical School, Boston, USA  
2 Boston Children’s Hospital/Harvard Medical School, Boston, USA  
3 University of Waterloo, Waterloo, CANADA

**Poster: SCI-169**  
A PICTORIAL REVIEW OF PAEDIATRIC SOFT TISSUE LESIONS  
Alexander Sheeka, Richard Jenkins, Stacey Castle, May-Ai Seah, Joanna Danin  
Imperial College Healthcare, London, UNITED KINGDOM
**Poster: SCI-170**
WHAT SKELETAL IMAGING MODALITY IS BEST FOR ASSESSING BONE HEALTH IN CHILDREN AND YOUNG ADULTS? SYSTEMATIC REVIEW AND META-ANALYSIS
Heba Saleh Shalo Shalof 1, Paul Dimitri 2, Farag Shuweihdi 3, Amaka Offiah 4
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**Poster: SCI-171**
PEDIATRIC ANTERIOR CRUCIATE LIGAMENT: TEARS AND REPAIRS
William Watkins Pryor 1, Victor Ho-Fung 2, Sosamma Methratta 1, J. Todd Lawrence 2, Nancy Chauvin 1
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2 Children’s Hospital of Philadelphia, Philadelphia, USA

**Poster: SCI-172**
IMAGING OF THE LIMPING CHILD
Georgia Papaioannou, Loukia Tzarouchi, Christina Meleti, Panagiotis Tagalakis, Georgios Manganas, Evaggelia Manopoulou, Spyros Yarmentitis
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**Poster: SCI-173**
IT’S NOT ALWAYS A SUPRACONDYLAR FRACTURE!
Elaine O’Boyle, Annie Paterson
Royal Belfast Hospital for Sick Children, Belfast, UNITED KINGDOM

**Poster: SCI-174**
STRUCTURED REPORTING OF SCOLIOSIS IN PEDIATRIC PATIENTS WITH IMAGING OF POST SURGICAL FIXATION HARDWARE AND COMPLICATIONS
Donald Lee
Staten Island University Hospital, Staten Island, USA

**Poster: SCI-175**
CONGENITAL SYPHILIS- A CASE STUDY
Richard Jenkins, Stacey Castle, Afshin Alavi, Erin Butterworth
Imperial NHS Trust, London, UNITED KINGDOM

**Poster: SCI-176**
AUTOMATIC DETECTION OF SLIPPED CAPITAL FEMORAL EPIPHYSIS ON PEDIATRIC PELVIC RADIOGRAPHS USING MACHINE LEARNING
Andrew Campion 1, Audrey Ha 3, Bao Do 1, Charles Fang 1, Kevin Shea 1,2, Michael Fadell 1,2
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2 Lucille Packard Children’s Hospital, Palo Alto, USA
3 Menlo-Atherton High School, Menlo Park, USA
4 VA Palo Alto Healthcare System, Palo Alto, USA
Poster: SCI-177
A CASE OF LATE DIAGNOSIS OF X-LINKED HYPOPHOSPHATEMIC RICKETS
Denise A. Castro 1, Aléxia A. Cabral 2, Cecília P. Silva 2, Isabela R. P. Giesta 3, Micheline A.R. Souza 3
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2 Centro Universitário de Volta Redonda UNIFOA, Volta Redonda, BRAZIL
3 Instituto de Puericultura e Pediatria Martagão Gesteira IPPMG, Rio de Janeiro, BRAZIL

Poster: SCI-178
T2 RELAXATION TIME CHANGES IN DISTAL FEMORAL CONDYLAR CARTILAGE IN CHILDREN WITH DISCOID MENISCUS
Haesung Yoon, Jisoo Kim, Hyun Ji Lim, Mi-Jung Lee
Severance Hospital, Department of Radiology, Seoul, SOUTH KOREA

Poster: SCI-179
IMAGING OF NON-ACCIDENTAL TRAUMA DURING THE BEGINNING OF THE 2020 NOVEL CORONAVIRUS PANDEMIC
Susan Taylor 1, Erica Riedesel 1, 2, Jonathan Loewen 1, 2, Edward Richer 1, 2
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Poster: SCI-180
MRI OF THE FOOT: A STEP TOWARDS DEFINING THE EARLY IMAGING FINDINGS IN JUVENILE IDIOPATHIC ARTHRITIS
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Poster: SCI-181
WHOLE BODY POST-MORTEM COMPUTED TOMOGRAPHY VERSUS SKELETAL SURVEY IN THE DETECTION OF FRACTURES IN SUSPECTED CASES OF FATAL NON-ACCIDENTAL INJURY
Daniel Nicholas Prince 2, 4, Halvani Moodley 1, 4, Jeanine Vellema 3, 4
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4 University of the Witwatersrand, Johannesburg, SOUTH AFRICA

Poster: SCI-182
ARE LATERAL RADIOGRAPHS OF JOINTS HELPFUL IN THE SUSPECTED PHYSICAL ABUSE SKELETAL SURVEY?
Riwa Meshaka, Susan Shelmerdine, Owen Arthurs
Great Ormond Street Hospital for Children NHS Trust, London, UNITED KINGDOM
**Poster: SCI-183**

**WHAT IS THE EFFECT OF SELECTIVE ULTRASOUND SCREENING ON THE INCIDENCE OF LATE PRESENTATION OF DEVELOPMENTAL HIP DYSPLASIA?**  
Lene Bjerke Laborie 1, Karen Rosendahl 2, Amira Dhouib 3, Paolo Simoni 4, Paolo Tomà 5, Amaka C. Offiah 6  
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**Poster: SCI-184**

**COMPARISON OF RELIABILITY OF MAGNETIC RESONANCE IMAGING USING CARTILAGE AND T1-WEIGHTED SEQUENCES IN THE ASSESSMENT OF THE CLOSURE OF THE GROWTH PLATES AT THE KNEE**  
Ola Kvist 1, Ana Luiza Dallora 2, Peter Anderberg 2,3, Ola Nilsson 1,4, Johan Sammartin Berglund 2, Carl-Johan Flodmark 5, Sandra Diaz 1,6  
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5 Lunds University, Department of Clinical Science, Lund, SWEDEN  
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**Poster: SCI-185**

**MYOSONOGRAPHIC PATTERNS IN INFANTILE AND JUVENILE ONSET POMPE DISEASE**  
Julian Jürgens 1, Rieke Meister 1, Katharina Von Cossel 2, Nicole Muschol 2, Ludwig Von Rohden 3, Jochen Herrmann 1  
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**Poster: SCI-186**

**YIELD OF POST-MORTEM SKELETAL SURVEYS IN INFANTS PRESENTING WITH SUDDEN UNEXPECTED DEATH**  
M. Katherine Henry 1, Teniola I. Egbe 2, Savvas Andronikou 1, Philip V. Scribano 3, Sabah Servaes 1, Ammie White 1, Joanne N. Wood 3  
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Poster: SCI-187
CHILD ABUSE IMAGING AND FINDINGS IN THE TIME OF COVID
M. Katherine Henry, Joanne N. Wood, Colleen E. Bennett, Barbara H. Chaiyachati, Teniola I. Egbe, Hansel Otero
Children’s Hospital of Philadelphia, Philadelphia, USA

Poster: SCI-190
FEASABILITY OF ASSESSING SYSTEMIC OXALOSIS BY MRI
Mark Born 1, Alois Sprinkart 1, Guido Kukuk 1, Jürgen Gieseke 2, Bernd Hoppe 3
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Poster: SCI-191
RELIABILITY OF CONE BEAM CT IN THE ASSESSMENT OF DESTRUCTIVE CHANGE OF THE TEMPOROMANDIBULAR JOINT IN PATIENTS WITH JUVENILE IDIOPATHIC ARTHRITIS (JIA)
Thomas A. Augdal 1, Oskar W. Angenete 2,3, Mats Säll 3, Karen Rosendahl 1,4, Xieqi Shi 5
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Poster: SCI-192
CBCT-BASED MEASUREMENTS OF THE TEMPOROMANDIBULAR JOINT IN PATIENTS WITH JUVENILE IDIOPATHIC ARTHRITIS (JIA)
Thomas A. Augdal 1, Oskar W. Angenete 2,3, Mats Säll 3, Karen Rosendahl 1,4, Xieqi Shi 5
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Poster: SCI-193
DIAGNOSTIC ACCURACY OF 3D ULTRASOUND AND ARTIFICIAL INTELLIGENCE FOR DETECTION OF PEDIATRIC WRIST INJURIES
Jack Zhang, Naveenjyote Boora, Sarah Melendez, Abhilash Rakkunedeth Hareendranath, Jacob Jaremko
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**Poster: SCI-194**

**A CASE SERIES; IMAGING FINDINGS OF CHRONIC RECURRENT MULTIFOCAL OSTEOMYELITIS**

Sükriye Yilmaz ¹, Birsel Sen Akova ¹, Berrin Demir ¹, Birsin Ozçakar ², Pınar Özge Avar ², Suat Fitoz ¹

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**Poster: SCI-195**

**LONG TERM SEQUELAE OF CHRONIC NONBACTERIAL OSTEOMYELITIS**

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**Poster: SCI-196**

**SPONTANEOUS CORRECTION OF CONGENITAL ANTEROLATERAL TIBIAL BOWING ASSOCIATED WITH POLYDACTYLY: A CASE REPORT**

Young Jin Ryu, Ji Young Kim
Seoul National University Bundang Hospital, Seongnam, SOUTH KOREA

**Poster: SCI-197**

**TO CT OR NOT TO CT? IMAGING STRATEGY IN BLUNT PAEDIATRIC TRAUMA**

Sparsh Prasher, Joshua Taylor Srikrishna Harave
Alderhey Children’s Hospital, Liverpool, UNITED KINGDOM

**Poster: SCI-198**

**THE EFFECT OF THE UK LOCKDOWN ON EMERGENCY RADIOLOGY PRACTICE IN A TERTIARY CHILDREN’S HOSPITAL**

Gareth Davies, Andrew Fitzsimons, Anne Paterson
Royal Belfast Hospital for Sick Children, Belfast, UNITED KINGDOM

**Poster: SCI-199**

**MR IMAGING IN PEDIATRIC KNEE LYME ARTHRITIS**

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Poster: SCI-200
MAGNETIC RESONANCE IMAGING SACROILIAC JOINT SCORING SYSTEM FOR JUVENILE IDIOPATHIC ARTHRITIS: ARE WEIGHTS FOR ITEMS NEEDED? MULTICENTRIC MULTIDISCIPLINARY OMERACT INITIATIVE
Tarimobo Otobo 1, Mirkamal Tolend 1, Sayali Joshi 1, Michal Znajdek 2, Jennifer Stimec 1, Arthur Meyers 3, Nele Herregods 4, Jacob Jaremko 5, Lennart Jans 6, Shirley Tse 6, Marion Van Rossum 7, Appenzeller Simone 8, Pamela Weiss 9, Dax Rumsey 10, Olympia Papakonstantinou 11, John Carrino 12, Eva Kirkhus 13, Nikolay Tzaribachev 14, Aloysius Ligha 15, Emilio Inarejos 16, Philip Conaghan 17, Robert Lambert 5, Walter Maksymowych 10, Manuela Perez 18, Rahim Moineddin 19, Nigil Haroon 20, Iwona Sudol-Szopinska 2, Andrea Doria 1
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Poster: SCI-201
CORRELATING CLINICAL EXAM FINDINGS TO IMAGING FINDINGS FOR NEWBORNS WITH SUSPECTED HIP DYSPLASIA
Donald Lee
Staten Island University Hospital, NYC, USA
Poster: SCI-202
3D SCOLIOSIS ANGLE PROVIDED BY RASTER-STEREOGRAPHY VERSUS 3D RECONSTRUCTION OF LOW DOSE RADIOGRAPHY (EOS) IN ADOLESCENT IDIOPATHIC SCOLIOSIS: A PRELIMINARY STUDY
Meryle Laurent ¹, Anne Tabard-Fougère ², Charlotte De Bodman ³, Sylviane Hanquinet ¹, Alice Bonnefoy-Mazure ², Stéphane Armand ², Seema Toso ¹, Romain Dayer ²
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Poster: SCI-203
“STAY HOME, STAY SAFE” - HOW SAFE IS HOME?
Harsimran Laidlow-Singh, Jonathan Colledge, Anoushka Ljutikov, Charlotte A. Roberts
Department of Imaging, The Royal London Hospital, London, UNITED KINGDOM

Poster: SCI-204
A REVIEW OF THE EFFECT OF THE SARS-COV-2 PANDEMIC ON PAEDIATRIC TRAUMA IN A MAJOR TRAUMA CENTRE
Harsimran Laidlow-Singh, Anoushka Ljutikov, Jonathan Colledge, Susan Cross, Charlotte A. Roberts
Department of Imaging, The Royal London Hospital, London, UNITED KINGDOM

Poster: SCI-205
REVIEW OF PEDIATRIC HIP ULTRASOUNDS: ARE WE PERFORMING TO NORTH AMERICAN STANDARDS?
Tyson Keddie, Eileen Tu, Teresa Liang
University of Alberta, Edmonton, CANADA

Poster: SCI-206
IMPACT OF COVID-19 PANDEMIC ON MUSCULOSKELETAL EXAMINATIONS IN A PAEDIATRIC EMERGENCY RADIOLOGY DEPARTMENT
Mariantonietta Francavilla ¹, Giampiero Bottari ², Biagio Solarino ², Alessandro Dell’Erba ², Maurizio Aricò ³, Giandomenico Stellacci ¹
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Poster: SCI-207

OPTIMIZATION OF ULTRASOUND PLANES FOR ASSESSMENT OF JOINTS OF PATIENTS WITH BLOOD-INDUCED ARTHRITIS: A MULTICENTRIC STUDY

Jyoti Panwar 1, Mirkamal Tolend 14, Eloy Fernandes 2, Sonia Mitraud 2, Victor Blanchette 4, Jorge Carneiro 3, Paulo Daruge 6, Elbio D'amico 5, Sergio Dertkigil 7, Artur Fernandes 2, Aihua Huo 8, Jose Jarrin 9, Ying-Jia Li 10, Arun Mohanta 9, Jose Negrao 2, Margareth Ozelo 11, Sanuj Panwar 12, Yun Peng 8, Marcelo Bordalo Rodrigues 6, Emerson Sakuma 7, Jin Sung 13, Sandra Antunes 3, Paula Villaca 5, Runhui Wu 15, Ningning Zhang 8, Alex Zhou 9, Fang Zhou 10, Andrea Doria 9

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Poster: SCI-208

RADIOLOGIC FEATURES OF SCURVY: A CASE REPORT

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Poster: SCI-209

KAPOSIIFORM HAEMANGIOENDOTHELIOMA OF THE SPINE WITH FIXED HYPERLORDOTIC DEFORMITY AND KASABACH MERRITT SYNDROME: A RARE ATYPICAL CASE REPORT AND REVIEW OF THE LITERATURE

Leanne Han Qing Chin 1, Kevin Kin Fen Fung 2, Joyce Pui Kwan Chan 2, Ming Keung Yuen 2, Amanda Kan 3, Elaine Yee Ling Kan 2
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Poster: SCI-211
PAEDIATRIC HIP ULTRASOUND OF DDH DURING THE COVID-19 PANDEMIC
Stacey Castle, Richard Jenkins, Afshin Alavi, Mayai Seah, Sufi Sadigh, Danin Joanna
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Poster: SCI-212
HUGE FEMORAL ARTERY PSEUDOANEURYSM AS A SWELLING MASS: CASE REPORT
Zuhal Bayramoglu, Ezgi Kara, Eshgin Sahibli, Seçkin Çobanoglu
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Poster: SCI-213
PILOMATRIXOMA OF THE MOLAR REGION: A CASE REPORT
Zuhal Bayramoglu, Ezgi Kara, Araz Gafarli, Sinan Seyrek
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Poster: SCI-214
A CASE REPORT ON ENDOCONDRAL OSSIFIED THYROID CARTILAGE AS A SUSPICIOUS LESION
Zuhal Bayramoglu, Ezgi Kara, Sinan Seyrek, Araz Gafarli
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Poster: SCI-215
CHRONIC RECURRENT MULTIFOCAL OSTEOMYELITIS (CRMO): RADIOLOGICAL IMAGING FINDINGS OF AN EXTREMELY YOUNGER CHILD
Zuhal Bayramoglu, Rana Gunoz Comert
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Poster: SCI-216
ENDOCHONDRAL OSSIFICATION OF THE THYROID CARTILAGE
Zuhal Bayramoglu, Ezgi Kara
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Poster: SCI-217
FIBROUS HAMARTOMA OF INFANCY: MRI FINDINGS IN FOUR CASES
Amadeo Arango-Diaz 1, Virginia Trujillo-Ariza 1, Maria Mercedes Liñares-Paz 1,
Sonsoles Junquera-Olay 1, Ana Ecenarro-Montiel 1, Pablo Caro-Dominguez 2
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Poster: SCI-218
ASSESSING THE PREVALENCE OF SPINAL INVOLVEMENT IN OUR COHORT OF CHRONIC RECURRENT MULTIFOCAL OSTEOMYELITIS PATIENTS: ARE DEDICATED SPINAL IMAGING SEQUENCES REQUIRED?
Tobi Aderotimi, Nik Barnes, Caren Lande
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**Poster: SCI-221**
TWO DIFFERENT MRI PATTERNS IN PEDIATRIC PARECHOVIRUS ENCEPHALITIS – FROM THE NEWBORN TO THE ADOLESCENT
Luis Octavio Tierradentro-García, Alireza Zandifar, Jorge Du Ub Kim, Savvas Andronikou
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**Poster: SCI-222**
WHEN SKULL GROWTH GOES WILD: A CASE REPORT OF HYPEROSTOSIS CRANIALIS INTERNA
Susan Taylor 1, Christabell Ndibe 1, Kartik Reddy 1,2, Adam Goldman-Yassen 1,2, Kristan Alfonso 1,2
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**Poster: SCI-223**
LARGE POSTERIOR DURAL VENOUS SINUS MALFORMATION: A CONCERNING RARE CONGENITAL INTRACRANIAL VASCULAR MALFORMATION
Leticia Schaefer Abu Hana, Christine Saint-Martin, Aws Kamona
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**Poster: SCI-224**
PEDIATRIC HIGH-GRADE GLIOMAS – DIFFERENTIATING THE GENETIC SUBTYPES OF HISTONE H3G34 MUTANT, HISTONE H3K27 MUTANT, AND IDH-1 MUTANT TUMORS
Grace Renshaw, Audrey Fazel, Ryan Bruhns, Ben Renshaw, Jeffery Bennett
Banner University Medical Center, Tucson, USA

**Poster: SCI-225**
CLINICAL AND RADIOLOGIC MANIFESTATIONS OF SMART SYNDROME: A CASE REPORT
Anthony Radosevich 1, Elizabeth Ryals 2, Cory Pfeifer 2
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**Poster: SCI-226**
CONGENITAL FACIAL NERVE DISORDERS: A CASE SERIES
Trey Mitchell, Brian Pando, Brittany Matthews, Dhruv Patel
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**Poster: SCI-227**
IMAGING OF MIDLINE CONGENITAL MALFORMATIONS OF BRAIN
Rahul Nikam 1, Ashrith Kandula 1, Snigdha Puram 1, Ben Paudyal 1, Xuyi Yue 1, Sachin Kumbhar 2
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**Poster: SCI-230**

PERINATAL ARTERIAL ISCHEMIC STROKE IN FETAL VASCULAR MALPERFUSION: A CASE SERIES AND LITERATURE REVIEW
Ana Geraldo 1, Alessandro Parodi 2, Marta Bertamino 3, Francesca Buffeli 4, Sara Uccella 5, Domenico Tortora 6, Paollo Moretti 3, Luca Ramenghi 2,7, Enzio Fulcheri 4,8, Andrea Rossi 6,9, Mariasavina Severino 6

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**Poster: SCI-231**

DEEP CERVICAL LYMPH NODES ON PEDIATRIC HEAD AND NECK MRI SCANS – A PICTORAL REVIEW
Riddhika Chakravartty, Sarah Watson
Royal Surrey Hospital NHS Foundation Trust, Guildford, UNITED KINGDOM

**Poster: SCI-232**

MR SIALOGRAPHY AT A DISTRICT GENERAL HOSPITAL: OUR JOURNEY
Riddhika Chakravartty, Sarah Watson
Royal Surrey Hospital NHS Foundation Trust, Guildford, UNITED KINGDOM

**Poster: SCI-233**

CONGENITAL INTRADURAL SPINAL LIPOMATOSIS WITH INTRACRANIAL EXTENSION
Emily Evans 1, Huma Haseeb 1, Guirish Solanki 2, Mark Bishay 1

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**Poster: SCI-234**

LYMPHANGIOMA OF THE PEDIATRIC TEMPORAL BONE
Pascale Aouad, Maura Ryan
Lurie Children’s Hospital, Northwestern University, Department of Radiology, Chicago, USA

**Poster: SCI-235**

ANATOMICAL CORRELATION OF HUMAN VS. MOUSE MODEL ON MRI
Cesar Alves, Meagan Mcmanus, Nina Duncan, Abhay Ramachandran, Walt Mchugh, Sergey Magnitsky, Todd Kilbaugh, Savvas Andronikou
Children’s Hospital of Philadelphia, Philadelphia, USA
Poster: SCI-236
DOSE REDUCTION WITH SPECTRAL SHAPING FOR PEDIATRIC PARANASAL SINUS CT
Wei Zhou 1, Ilana Neuberger 2, John Maloney 2, Christina White 2, Donglai Huo 1, Jason Weinman 2
1 University of Colorado, Anschutz Medical Campus, Aurora, USA
2 Children’s Hospital Colorado, Aurora, USA

Poster: SCI-237
THE EVALUATION OF ANATOMIC STRUCTURES’ VOLUME OF THE BRAIN IN PEDIATRIC PATIENTS WITH EPILEPSY – PRELIMINARY STUDY
Monika Zbroja 1, Weronika Cyryanka 1, Katarzyna Drel 1, Olga Pustelniak 1, Małgorzata Matuszek 1, Ewa Kopyto 1, Andrzej Materniak 2, Magdalena Wozniak 2
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Poster: SCI-238
CLINICAL UTILITY OF THE DIFFUSION WEIGHTED IMAGING (DWI) RATIO IN CHARACTERIZING PRIMARY BRAIN NEOPLASMS IN PEDIATRIC PATIENTS: A 5-YEAR RETROSPECTIVE STUDY IN A TERTIARY HOSPITAL IN THE PHILIPPINES
Sheen Urquiza, Ryan Jason Urgel, Alvin Camacho, Rosanna Fragante
University of the Philippines - Philippine General Hospital, Manila, PHILIPPINES

Poster: SCI-239
MRI FINDINGS OF AICA LOOPS IN CHILDREN: INCIDENCE AND ASSOCIATION WITH AUDIOVESTIBULAR SYMPTOMS
Birsel Sen Akova 1, Suat Fitoz 1, Emre Ocak 2
1 Ankara University, Department of Pediatric Radiology, Ankara, TURKEY
2 Ankara University, Department of Otolaryngology, Ankara, TURKEY

Poster: SCI-242
BRAIN MRI FINDINGS IN PAEDIATRIC PATIENTS WITH DEVELOPMENTAL DELAY AT A TERTIARY HOSPITAL IN JOHANNESBURG, SOUTH AFRICA
Farzaana Badat 3, Halvani Moodley 1,3, Heather Clare Thomson 1,3, Jacqueline Kim Bezuidenhout 1,3, Sheetal Daya 2,3
1 Charlotte Maxeke Johannesburg Academic Hospital, Johannesburg, SOUTH AFRICA
2 Helen Joseph Hospital, Johannesburg, SOUTH AFRICA
3 University of the Witwatersrand, Johannesburg, SOUTH AFRICA
Poster: SCI-243
PROTOCOL-BASED IMAGING OF PAEDIATRIC BRAIN TUMOURS WITH MAGNETIC RESONANCE IMAGING (MRI) USING COMPRESSED SENSE: IMPACT ON IMAGE QUALITY AND EXAMINATION TIME
Rieke Lisa Meister 1, Michael Groth 1, Julian Jürgens 1, Shuo Zhang 2, Christoph Katemann 2, Thomas Amthor 3, Jan Hendrik Buhk 4, Jochen Herrmann 1
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2 Philips Healthcare, Hamburg, GERMANY
3 Philips Research, Hamburg, GERMANY
4 Department of Diagnostic and Interventional Neuroradiology, University Medical Center Hamburg-Eppendorf, Hamburg, GERMANY

Poster: SCI-244
POLYTRAUMA IN CHILDREN - COMPUTED TOMOGRAPHY ASSESSMENT OF CRANIOCEREBRAL PATHOLOGIES
Małgorzata Matuszek 1, Ewa Kopyto 1, Monika Zbroja 1, Magdalena Maria Wozniak 2
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2 The Department of Pediatric Radiology, Medical University of Lublin, Lublin, POLAND

Poster: SCI-245
MAGNETIC RESONANCE SPECTROSCOPY STUDY OF ACUTE MILD TRAUMATIC BRAIN INJURY
Andrei Manzhurtsev 1, Maxim Ublinskiy 1,2, Petr Bulanov 1, Olga Bozhko 1, Tolib Akhadov 1, Natalia Semenova 1,2
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Poster: SCI-246
LATE-ONSET SUBVENTRICULAR ECHOGENICITY ON CRANIAL SONOGRAPHY IN EXTREMELY LOW BIRTH WEIGHT INFANTS WITH INTESTINAL PERFORATION
Sara Janos 1, Adrian Epstein 2, Eric Benner 2, Charles Michael Cotten 2, Logan Bisset 1, Joseph Davis 1, Charles Maxfield 1
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2 Duke University Hospital - Department of Pediatrics, Durham, USA

Poster: SCI-247
THE IMPACT OF CEREBELLAR VOLUME ON BRAIN NETWORKS IN CHILDREN WITH EPILEPSY
Katja Glutig Glutig 1, Luisa Karoline Lange 1, Christian Gaser 2, Heike De Vries 3, Hans-Joachim Mentzel 1
1 Section of Pediatric Radiology, Institute of Diagnostic and Interventional Radiology, Jena University Hospital, Jena, GERMANY
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3 Department of Neuropediatrics, Jena University Hospital, Jena, GERMANY
**Poster: SCI-248**

**THE ROLE OF ADVANCED EPILEPSY-SPECIFIC MRI PROTOCOL IN THE DIAGNOSIS OF PHARMACORESISTANT EPILEPSY IN CHILDREN**

Weronika Cyranka ¹, Monika Zbroja ¹, Katarzyna Drellich ¹, Magdalena Wozniak ²

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**Poster: SCI-249**

**COMPARING MEASUREMENTS ON STANDARD AND ULTRAFAST MRI SEQUENCES**

Cai Ling Yong, Phua Hwee Tang

KK Women’s and Children’s Hospital, Singapore, SINGAPORE

**Poster: SCI-250**

**LACRIMAL SACK PATHOLOGY: THE ROLE OF ULTRASOUND - A CASE PRESENTATION**

Eleni Koutrouveli ¹, Rodanthi Sfakiotaki ¹, Georgios Daniil ², Irene Vraka ¹, Anna Chountala ¹,

Marina Vakaki ¹, Chrysoula Koumanidou ¹

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**Poster: SCI-251**

**RAPID MAGNETIC RESONANCE IMAGING OF THE BRAIN IN A PEDIATRIC EMERGENCY DEPARTMENT: AN ANALYSIS OF USAGE FOR HEADACHE**

Maria Velez-Florez, Arastoo Vossough, Summer Kaplan

Children’s Hospital of Philadelphia, Philadelphia, USA

**Poster: SCI-252**

**DYNAMICS OF MICROSTRUCTURAL AND METABOLIC PARAMETERS IN CHILDREN WITH SEVERE TBI AND HYPOXIC-ISCHEMIC BRAIN INJURY**

Maxim Ublinskiy ¹, Andrei Manzhurtsev ¹², Ilya Melnikov ¹, Tolibdzhon Akhadov ¹,

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RUSSIAN FEDERATION

**Poster: SCI-253**

**DYSFUNCTION OF FUNCTIONAL CONNECTIVITY BETWEEN DEFAULT MODE NETWORK AND CEREBELLAR STRUCTURES IN PATIENTS WITH MTBI IN ACUTE STAGE. RSFMRI AND DTI STUDY**

Maxim Ublinskiy ¹, Andrei Manzhurtsev ¹², Ilya Melnikov ¹, Tolibdzhon Akhadov ¹,

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RUSSIA
Poster: SCI-254
CEREBROSPINAL FLUID FLOW DETECTION IN POST-HEMORRHAGIC HYDROCEPHALUS WITH NOVEL MICROVASCULAR IMAGING MODALITY
Luis Octavio Tierradentro-García 1, Brandi L. Kozak 1, Kassa Darge 2, Misun Hwang 2
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2 Department of Radiology, Children’s Hospital of Philadelphia. Perelman School of Medicine, University of Pennsylvania, Philadelphia, USA

Poster: SCI-255
BENIGN DEVELOPMENTAL CHANGES OF THE THYROID CARTILAGE MIMICKING PATHOLOGICAL NODULES
Timothy Shao Ern Tan, Sarat Kumar Sanamandra
Department of Diagnostic Radiology, Singapore General Hospital, Singapore, SINGAPORE

Poster: SCI-256
AFTER-HOURS MRI AT CHILDREN’S HOSPITALS: EMERGENT VP SHUNT EVALUATION AS A JUSTIFICATION FOR 24-HOUR STAFFING
Lelia Williams 1, Elizabeth Ryals 2, Anthony Radosevich 3, Cory Pfeifer 2
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2 Children’s Medical Center, Dallas, USA
3 Baylor University Medical Center, Dallas, USA

Poster: SCI-257
‘TWO-IN-ONE’ – IN-BORE CHILD AND PARENT POSITIONING FOR NON-ANESTHESIA PEDIATRIC MRI
Roman Melamed 1, Aviad Rabinowich 13, Shelly I. Shiran 13, Jonathan Roth 23, Shlomi Constantini 23, Liat Ben-Sira 13
1 Department of Radiology, Tel Aviv Medical Center, Tel Aviv, ISRAEL
2 Departments of Neurosurgery and Pediatric Neurosurgery, Tel Aviv Medical Center, Tel Aviv, ISRAEL
3 Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, ISRAEL

Poster: SCI-258
DO CHILDREN WITH SUSPECTED SHUNT FAILURE ALSO REQUIRE A RADIOGRAPHIC SHUNT SERIES IF HEAD CT IS GOING TO BE, OR HAS BEEN, PERFORMED?
Michael Paddock 1, George Beattie 1, Saurabh Sinha 2, Suzanne Mason 1, Daniel Ja Connolly 2
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2 Sheffield Children’s NHS Foundation Trust, Sheffield, UNITED KINGDOM

Poster: SCI-259
AVOIDING SKULL RADIOGRAPHS IN INFANTS WITH SUSPECTED INFLECTED INJURY WHO ALSO UNDERGO HEAD CT: “A NO-BRAINER?”
Michael Paddock 1, Andrew Martin 2, Christopher Johns 2, Jessica Smith 3, Ashok Raghavan 4, Daniel Ja Connolly 2, Amaka C Offiah 4
1 Barnsley Hospital NHS Foundation Trust, Barnsley, UNITED KINGDOM
2 Royal Hallamshire Hospital, Sheffield, UNITED KINGDOM
3 University of Sheffield Medical School, Sheffield, UNITED KINGDOM
4 Sheffield Children’s NHS Foundation Trust, Sheffield, UNITED KINGDOM

BACK TO INDEX
Poster: SCI-260
MENINGIOANGIOMATOSIS IN A 5 YEAR OLD: A CASE REPORT
Christabell Ndibe, Susan Taylor, Adam Goldman-Yassen, Kartik Reddy
Emory University School of Medicine, Atlanta, USA

Poster: SCI-261
SIMULATION OF REDUCED-DOSE IMAGES USING NOISE-INSERTION PROGRAM FOR PEDIATRIC BRAIN CT
Hyun Gi Kim 1, Seongyong Pak 2, Jiseon Lim 3
1 The Catholic University of Korea, Seoul, SOUTH KOREA
2 Siemens Healthineers Ltd., Seoul, SOUTH KOREA
3 Hankuk University of Foreign Studies, Yongin, SOUTH KOREA

Poster: SCI-262
NEONATAL NEUROSONOGRAM – SPECTRUM OF CASES IN A TERTIARY CARE CENTRE IN INDIA
Prasanna Karpaga Kumaravel, Nitin Ashok, Abirami Krithiga
Rainbow Childrens Hospital, Hyderabad, INDIA

Poster: SCI-263
VOLUMETRIC ANALYSIS OF CAUDATE, LENTIFORM NUCLEI, THALAMIC VOLUMES OF CHILDREN WHO UNDERWENT MRI FOR HEADACHE
Abigail Ho, Phua Hwee Tang
KK Women’s and Children’s Hospital, Singapore, SINGAPORE

Poster: SCI-264
GANGLIONEUROMA WHICH IS RARELY LOCATED ON THE NECK: A CASE REPORT
Zuhal Bayramoglu, Ezgi Kara, Eshgin Sahibli, Elif Hazal Karli
Istanbul University, Istanbul Medical Faculty, Radiology Department, Istanbul, TURKEY

Poster: SCI-265
CEREBRAL VASCULAR FINDINGS IN CHILDREN WITH NEUROFIBROMATOSIS TYPE 1 USING TIME-OF-FLIGHT MRA
Laura Acosta-Izquierdo 1, Bruno Marino Monarim 1, Christian Alfred Obrrien 2, Erick Sell 3, Nagwa Wilson 1
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3 Department of Pediatrics, Division of Neurology, CHEO, University of Ottawa, Ottawa, CANADA

Poster: SCI-266
BIOMETRY OF THE CEREBRAL VENTRICLES IN EXTREMELY LOW GESTATIONAL AGE NEONATES
Laura Acosta-Izquierdo 1, Emanuela Ferretti 2, Maria Fernanda Dien Esquivel 1, Elka Miller 1, Nick Barrowman 3A, Vid Bijelic 3A, Claudia Martinez-Rios 1
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2 Division of Neonatology, CHEO, University of Ottawa, Ottawa, CANADA
3 Department of Pediatrics, University of Ottawa, Ottawa, CANADA
4 Clinical Research Unit, CHEO Research Institute, Ottawa, CANADA
**Poster: SCI-267**
EXPECT THE UNEXPECTED: A PICTORIAL REVIEW OF UNEXPECTED PET/MR FINDINGS IN COMMON CHILDHOOD MALIGNANCIES AND THEIR CLINICAL SIGNIFICANCE
Jayne Seekins, Helen Nadel, Jesse Sandberg
Lucile Packard Children’s Hospital, Palo Alto, USA

**Poster: SCI-268**
MRI APPARENT DIFFUSION COEFFICIENT (ADC) AND 123-I-MIBG UPTAKE IN LOW-RISK NEUROBLASTOMA: CASE REPORT
Anna Lisa Martini ¹, Michela Allocca ¹, Maria Dipaolantonio ¹, Annalisa Tondo ², Anna Perrone ², Catia Olianti ¹
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² Azienda Ospedaliero Universitaria Meyer, FLORENCE, ITALY

**Poster: SCI-269**
THYROID INVOLVEMENT OF LANGERHANS CELL HISTIOCYTOSIS: IMAGING FINDINGS OF RARE DISEASE
Sükriye Yilmaz ¹, Berrin Demir ¹, Birsel Sen Akova ¹, Koray Ceyhan ², Isinsu Kuzu ³, Emel Unal ⁴, Omer Suat Fitoz ¹
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**Poster: SCI-270**
PAPILLARY CARCINOMA IN A CHILD, RARE BUT AGGRESSIVE
Pradeep Raj Regmi ¹, Isha Amatya ¹
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**Poster: SCI-271**
LANGERHANS CELL HISTIOCYTOSIS: A GREAT MIMICKER!
Rahul Nikam ¹, Ashrith Kandula ¹, Snigdha Puram ¹, Xuyi Yue ¹, Ben Paudyal ¹, Sachin Kumbhar ²
¹ Nemours Alfred I. duPont Hospital for Children, Wilmington, USA
² Medical College of Wisconsin, Milwaukee, USA

**Poster: SCI-272**
WHEN LIQUID TUMORS TURN SOLID...
Hoi Ming Kwok ¹, Kai Yat Kenneth Cheung ², Yee Ling Elaine Kan ³, Chun Kit Shiu ⁴, Kevin Kin Fen Fung ³, Kwok Chun Wong ³, Pui Kwan Joyce Chan ³, Wing Kei Carol Ng³
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³ Department of Radiology, Hong Kong Children’s Hospital, Hong Kong, HONG KONG
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Poster: SCI-274
WILMS TUMOR UPDATE
Darragh Brady, Narendra Shet ¹, Ramon Sanchez-Jacob ¹, Jeffrey Dome ¹
Childrens National Hospital DC, Washington, USA

Poster: SCI-275
EXTRARENAL WILMS TUMOUR WITH PULMONARY METASTASES: A RARE PRESENTATION OF A COMMON PAEDIATRIC TUMOUR
Mark Bishay, Emily Evans, Shruti Moholkar, Moti Chowdhury
Birmingham Children’s Hospital - Department of Radiology, Birmingham, UNITED KINGDOM

Poster: SCI-276
HEPATIC EPITHELIOID HAEMANGIOENDOTHELIOMA WITH PULMONARY INVOLVEMENT: A ONE IN A MILLION DIAGNOSIS
John Adu ¹, Paola Angelini ², Daniel Levine ³, David Macvicar ⁴, Erika Pace ⁴
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² Royal Marsden Hospital, Department of Oncology, London, UNITED KINGDOM
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⁴ Royal Marsden Hospital, Department of Radiology, London, UNITED KINGDOM

Poster: SCI-277
COMPARISON OF WHOLE BODY MRI AND PET-CT IN PEDIATRIC SOLID TUMORS
Gokalp Cikman, Sureyya Burcu Gorkem
Erciyes University Department of Pediatric Radiology, Kayseri, TURKEY

Poster: SCI-278
ULTRASOUND IN TONSILLAR LYMPHOMA: AN EMERGING FRONTLINE MODALITY - TWO CASE REPORTS
Eleni Koutrouveli ¹, Irene Vraka ¹, Rodanthis Sfakiotaki ¹, Marina Vakaki ¹, Georgios Daniil ², Anna Chountala ¹, Ekaterini Haritou ¹, Koumanidou Chrysoula ¹
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² General Hospital Of Thessaloniki G. Gennimatas, Thessaloniki, GREECE

Poster: SCI-279
IMAGING FINDINGS OF CONGENITAL-INFANTILE FIBROSARCOMA WITH A PICTORIAL REVIEW
Nasim Tahir
Leeds Children’s Hospital, Leeds, UNITED KINGDOM

Poster: SCI-281
BILOBED METANEPHRIC ADENOMA AND WILMS TUMOR: IDENTICAL EMBRYOLOGIC ORIGIN, DIVERGENT IMAGING APPEARANCE. FIRST REPORT WITH US, SPECTRAL CT, AND MRI
Charles Runyan, Dianna M.E. Bardo
Phoenix Children’s Hospital, Phoenix, Arizona, USA
Poster: SCI-282
DO OTHERWISE WELL, HEALTHY CHILDREN WITH PALPABLE CERVICAL LYMPH NODES REQUIRE INVESTIGATION WITH NECK ULTRASOUND?
Michael Paddock 1, Amy Ruffle 2, George Beattie 1, Amit Prasai 2, Annmarie Jeanes 2
1 Barnsley Hospital NHS Foundation Trust, Barnsley, UNITED KINGDOM
2 Leeds Teaching Hospitals NHS Trust, Leeds, UNITED KINGDOM

Poster: SCI-283
NEUROBLASTOMA WITH KINSBORNE SYNDROME: CASE SERIES OF SIXTEEN CASES AND REVIEW OF LITERATURE
Prasanna Karpaga Kumaravel, Abirami Krithiga Jayakumar
Rainbow Childrens Hospital, Hyderabad, INDIA

Poster: SCI-284
IMAGING PATTERNS OF GROWTH OF TUMORS IN LI-FRAUMENI SYNDROME: CASE SERIES
Roxana Azma 1, Thitiporn Junhasavasdiku 1 2, Nipaporn Tewattanarat 1 3, Armin Nourmohammad 1, Armin Abadeh 1, Sanuj Panwar 1, Anita Vilani 1, David Malkin 1, Andrea S. Doria 1 4
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4 Research Institute, Peter Gilgan Centre for Research and Learning, The Hospital for Sick Children, Toronto, CANADA

Poster: SCI-285
DIAGNOSTIC ACCURACY OF MRI FOR PEDIATRIC NEUROBLASTIC TUMOR DIFFERENTIATION: SYSTEMATIC REVIEW AND SUBGROUP META-ANALYSIS
Domenica Tambasco 1, Maria Medeleanu 2, Rahim Moineddin 3, Shelley Harris 4, Daniel Morgenstern 5, Anita Villani 5, David Malkin 5, Andrea Doria 6
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2 The Hospital for Sick Children - Research Institute, Toronto, CANADA
3 University of Toronto - Division of Family & Community Medicine, Toronto, CANADA
4 University of Toronto - Department of Epidemiology & Department of Occupational and Environmental Health, Toronto, CANADA
5 The Hospital for Sick Children -Department of Pediatric Oncology, Toronto, CANADA
6 The Hospital for Sick Children -Department of Diagnostic Imaging, Toronto, CANADA

Poster: SCI-286
2D SHEAR WAVE ELASTOGRAPHY OF SUPERFICIAL LYMPH NODES IN CHILDREN WITH Hodgkin Lymphoma: ITS CONTRIBUTION IN EVALUATING RESPONSE TO CHEMOTHERAPY
Anna Chountala 1, Rodanthi Sfakiotaki 1, Efi Alexopoulou 1, Nickos Spyridis 2, Dimitris Doganis 4, Chrysoyla Koumanidou 1, Lydia Kossiva 2
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4 Children’s Hospital ‘P&A Kyriakou’Oncology, Athens, GREECE
Poster: SCI-287
CAN SUPERFICIAL LYMPH NODES’ ELASTOGRAPHY CONTRIBUTE TO THE DIFFERENTIAL DIAGNOSIS OF THE TYPES OF PEDIATRIC MALIGNANCY?
Anna Chountala 1, Rodanthi Sfakiotaki 1, Efi Alexopoulou 3, Marina Vakaki 1, Eleni Koutrouveli 1, Irene Vraka 1, Dimitris Doganis 4, Chrysoula Koumanidou 1, Lydia Kossiva2
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Tuesday, October 12, 2021

12:15-13:00 CONTRAST IMAGING MODALITIES FOR CHILDREN
Chairman: Andrea Rossi (Genova, Italy)

12:15-12:35 Looking for confidence and safety in daily practice: CE-MRI with macrocyclic GBCA to differentiate inflammatory lesions and brain tumors in children
Fabio Triulzi (Milan, Italy)

12:35-12:55 Contrast-Enhanced voiding urosonography in children for vesicoureteral reflux evaluation
Kassa Darge (Philadelphia, USA)

Thursday, October 14, 2021

13:00-13:30 INNOVATIONS IN PEDIATRIC RADIOLOGY

13:00-13:01 Opening and introduction
Elizabeth van Vorstenbosch (Best, The Netherlands)

13:01-13:20 How technology changes a child’s experience in an MRI scanner
Dobromiła Barańska, (Lodz, Poland)

13:20-13:30 Sharing first experiences with the new PureWave mC12-3 transducer and new enhancements on the EPIQ Elite for pediatric ultrasound
Rebecca Dennis (Philadelphia, USA)