

## Pediatric Radiology training course 2022 – the Basics (level I-II = basics to intermediate skills)

### Tuesday

08:00 - 08:30 **Registration**

08:20 - 08:40 Initial self-assessment test

08:40 - 09:00 Opening & introduction; groups & general information (Cerbu/Birsasteanu/Olteanu/Kasznia-Brown/Paterson/Riccabona)

09:00 - 11:00 **Hands-on in 4 groups / participation in clinical work**

11:00 - 11:20 **Coffee break**

11:20 - 11:40 Basics of radiation protection & awareness in pediatric radiology (Riccabona)

11:40 - 12:00 Films and Digital Radiography - specific needs for pediatric radiology (Olteanu)

12:00 - 12:40 Fluoroscopy (+/-CBCT) - how to prudently apply in neonates, infants, children (Paterson)

12:40 - 12:50 *Questions*

12:50 - 14:20 **Lunch**

14:20 - 15:00 Ultrasound - basics revisited and special needs for pediatric applications (Riccabona)

15:00 - 15:50 Imaging of paediatric small parts (including testes, breasts,...) - US and beyond (Paterson)

15:50 - 16:00 *Questions*

16:00 - 16:20 **Coffee break**

16:20 - 17:10 Imaging the pediatric cardiovascular system (Paterson)

17:10 - 17:50 Typical US applications in children, focussing on common and urgent queries (e.g. UTI, appendicitis, pneumonia, pain & colics ...)

17:50 - 18:00 *Questions*

19:00 **Welcome cocktail (sponsored event)**

### Wednesday

08:30 - 10:30 **Hands-on in 4 groups / participation in clinical work**

10:30 - 10:45 **Coffee break**

10:45 - 11:20 Imaging the pediatric skeleton - methods, approaches, common findings (Kasznia-Brown)

11:20 - 12:00 Typical ultrasound applications and common findings in neonates (brain, spine, chest, abdomen) (40) (Riccabona)

12:00 - 12:25 Basic rules for simple image guided interventions in childhood (Asavoai)

12:25 - 12:30 *Questions*

12:30 - 14:00 **Lunch**

14:00 - 14:40 Pediatric chest imaging: plain film, CT and US (Paterson)

14:40 - 15:10 Contrast media use in infants and children (30) (Riccabona)

15:10 - 15:40 Imaging in pediatric trauma and non-accidental injury (Paterson)

15:40 - 15:45 *Questions*

15:45 - 16:00 **Coffee break**

16:00 - 18:00 **Afternoon workshops in 3 groups**

### Thursday

08:30 - 10:30 **Hands-on in 4 groups / participation in clinical work**

10:20 - 10:40 **Coffee break**

10:40 - 11:20 Imaging in common pediatric MSK tumours: diagnosis, DDx, complications & follow-up (Kasznia-Brown)

11:20 - 12:00 CT - basics revisited and special needs for pediatric applications (Riccabona)

11:40 - 12:20 Imaging in common pediatric body & neuro tumours: diagnosis, DDx, complications, follow-up (Kasznia-Brown)

12:20 - 12:30 *Questions*

12:30 - 14:00 **Lunch**

14:00 - 14:30 Typical childhood queries that illustrate the difference in imaging compared to adults (Asavoai)

14:30 - 15:10 Typical & common pediatric MSK queries (including joints) - when to use what, and how do things look? (Kasznia-Brown)

15:10 - 15:40 How to tailor paediatric CT protocols & how do things look like (common & important findings) (Paterson)

15:40 - 15:45 *Questions*

15:45 - 16:00 **Coffee break**

16:00 - 18:00 **Afternoon workshops in 3 groups**

19:00 **Course dinner (sponsored event)**

### Friday

08:30 - 10:30 **Hands-on in 4 groups / participation in clinical work**

10:30 - 10:50 **Coffee break**

10:50 - 11:20 MRI - basics revisited: special needs / adaptation for pediatric applications (Kasznia-Brown)

11:20 - 11:50 Pediatric Neuro-MRI (Kasznia-Brown)

11:50 - 12:20 Pediatric Body-MRI (30) (Riccabona)

12:20 - 12:50 MRI in the paediatric musculoskeletal system (Kasznia-Brown)

12:50 - 13:00 *Questions*

13:00 - 14:30 **Lunch**

14:30 - 16:30 **Afternoon workshops in 3 groups**

16:30 - 16:50 Final self-assessment test

16:60 - 17:10 Final remarks, feedback & discussion

17:10 - 17:30 Closing, distribution of certificates (Cerbu / Olteanu / Kasznia-Brown / Riccabona)

17:30 **Coffee & End**

**Organisation of Hands-on:** participation in daily routine in the Radiology Department

**Groups will rotate - each group every day another modality**

**Group 1 = Film reading & Fluoroscopy:** daily reporting, typical cases, practical dose adaptation issues / image quality improvement, including procedural recommendations & technical-methodical reflection, guidelines for performing typical examinations such as VCUG or contrast swallow / follow-through / enema (Olteanu/ Barbu)

**Group 2 = CT (& interventions):** daily investigations and case discussions, cases, pediatric practical issues, dose adaptation, contrast timing etc (Paterson/Puscasiu)

**Group 3 = US in 2 rooms:** practical patient scanning - hands-on (Riccabona / Stoescu, Fufezan / Mozoru)

**Group 4 = MRI:** daily investigations and case discussions, pediatric practical issues – how to adapt (Kaszni-Brown / Asavoiaie)

**Group 1 (Fluoroscopy)** will be held in Hospitals' Outpatient Clinic

**Group 2 (CT)** will be held in the Hospital

**Group 3 (US)** will be held in the Hospital

**Group 4 (MRI)** will be held at the Hotel Timisoara

**SEE THE MAPS ON THE WEBPAGE FOR ORIENTATION. Groups will be guided from the previous activities at the Venue Hotel.**

**Organisation of afternoon Workshops:**

**Groups will rotate in three separate rooms at the Hotel Timisoara - each group every day another room – another topic**

**Content:**

- **clinical scenarios /cases - how to image common queries, typical findings;**
- **short presentations; interactive discussions** (to be established with the group moderators)

**Group A** = headache, seizures, hypoxia & asphyxia, hydrocephalus, cerebral haemorrhages, NAI, vascular malformation, etc...  
(Kaszni-Brown / Olteanu)

**Group B** = intussusception, UTI, NEC, malrotation, appendicitis, torsion, ambiguous genitalia, UTD, lumps & bumps, cysts & nodes...  
(Riccabona / Asavoiaie)

**Group C** = coughing, sinusitis, pneumonia, fever of unknown origin, limping child, sports injuries, swollen joints, acute trauma, suspected tumor, MSK-queries ..... (Paterson / Fufezan)