

News from the ESPR Abdominal Imaging Task Force: An Update

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Extended Abstract

Objective: To update ESUR Members what has been going on with the ESPR Abdominal (GI & GU) Imaging Task Force since the ESUR Pediatric Working Group has been paused. Furthermore, perspectives on how the future cooperation with ESPR and activities in the field of pediatric urogenital imaging may develop and might be realized.

Content: Since Copenhagen, when there was the last session of the ESUR Pediatric Working Group on Pediatric Urogenital Imaging, the ESPR Task force has expanded and has several new members; however some members retired or withdrew from the group. Presently the group has 19 members from 14 countries. Based on the ESPR internal regulations, the chair of the Task Force had to be re-elected – since this year annual meeting in Berlin (June 2018) LS. Ording-Müller and Ph. Petit co-chair the group.

Over the last three years several new topics were addressed and new recommendations have been issued; several other projects are “work in project” or plans for the near future. The two new papers produced by the group were the Task Force recommendations part IX and part X published in pediatric radiology as open access papers. The topics address included several procedural recommendation statements on contrast agents as well as imaging algorithms (e.g., how to perform pediatric gastro-intestinal ultrasound, use of gadolinium as a contrast agent in children, follow up of pediatric testicular microlithiasis, update on pediatric contrast enhanced ultrasound, imaging in cloacal and anorectal malformations including procedural details for the various investigations, and imaging ovarian torsion). Furthermore, other upcoming developments have been addressed such as a statement with respect to the new UTD classification of the American Societies replacing the old and often misunderstood term “hydronephrosis” by introducing the European pelvi-caliceal distention (PCD) grading system, or trying to improve and standardize terminology in pediatric urogenital radiology (interdisciplinary European project led by PH. Vivier and recently published as a joint publication in the *Journal of Pediatric Urology* and *Pediatric Radiology*). Several other papers based on input from the group have finally been published such as imaging in *Pediatric renal transplantation* (main author B. Damasio). With the renaming of the group (the name changed from urogenital to abdominal imaging - comprising both the urogenital as well as the gastrointestinal tract and other abdominal compartments and systems) the focus of the Task Force has widened which is reflected in the new ongoing projects, such as; imaging for constipation - are frequent radiographs or ultrasound measurements of rectal diameters useful?, imaging for biliary atresia, imaging inflammatory bowel disease in early childhood, or update on advanced applications of ultrasound contrast agents in children such as intra-cavitary use and intra-venous applications. Other topics that are being addressed are the use of the ultrasound elastography in childhood, or CEUS compared with diffusion weighted imaging for focal renal lesions, particularly in childhood upper UTI. Further activities of the group include for example a cooperation with ESGAR on issuing a statement on IBD imaging (group representatives were Petit, Napolitano, Avni) or discussion, input

and eventually endorsement of a European position statement publication on new aspects in pediatric cystic kidney disease (Avni).

Finally the new edition of the text book “Pediatric Urogenital Radiology” by Springer has eventually been finalised and has been released in July 2018. Other projects on the horizon are imaging of pancreatitis in children, imaging of bowel dysmotility in children, imaging of renal tumors – current and emerging developments in childhood, imaging in bladder dysfunction, and several others.

Finally a new effort has been undertaken to formally install the cooperation of ESUR with ESPR to ensure pediatric radiology input into ongoing and future ESOR recommendations as far as they apply to children, also granting pediatric uro-radiology education and update. The main focus of this endeavor is to prevent creation of recommendations that may contradict each other or confuse the medical community. Nevertheless, the ESPR Taskforce hopes to benefit from input of ESUR members on new imaging developments that may be adapted to pediatric needs, and will further advance imaging opportunities in childhood. At present the proposal for this cooperation is at the respective boards for decision - aiming at regular contributions of the ESPR Taskforce at ESUR meetings, offering also an associated membership to the ESPR Task Force for ESUR members who work in pediatric uro-radiology and want to actively participate in the group’s projects. Furthermore regular meetings for discussion are foreseen during the annual ESR where probably many ESPR and ESUR members will be present and a regular ESPR Taskforce meeting has become established. Members who have a joint membership in ESUR and ESPR will work as respective representatives – at present Lobo, Riccabona and Wozniak will take this role, trying also to integrate other pediatric uro-radiologists into the group activities who mainly work within ESUR.

Summary: This overview aims at updating on recent developments in the field of pediatric urogenital imaging based on the activities of the ESPR Abdominal (GI & GU) Imaging Task Force in the light of re-initiating a cooperation of ESUR and ESPR in the field of pediatric urogenital imaging.