








**25<sup>TH</sup> – 26<sup>TH</sup> JUNE 2015**  
**KING'S COLLEGE HOSPITAL LONDON UNITED KINGDOM**  
**3<sup>RD</sup> INTERNATIONAL PAEDIATRIC CONTRAST-  
ENHANCED ULTRASOUND (CEUS) COURSE**  
**(WITH LIVE CASES)**

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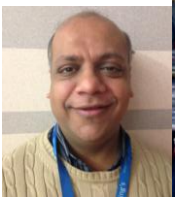


	<b>THURSDAY 25<sup>th</sup> JUNE 2015</b>
<b>09.00</b>	<b>Registration and Coffee</b>
<b>09.20 – 9.30</b> 	<b>Welcome by the Course Directors</b> A short introduction over coffee with an overview of the programme.  <b>Prof Paul Sidhu, Professor of Imaging Sciences, King's College , London</b> <b>Dr Maria Sellars, Consultant Paediatric Hepatobiliary Radiologist, King's College Hospital, London</b> <b>Dr Annamaria Deganello, Consultant Paediatric Hepatobiliary Radiologist, King's College Hospital, London</b> <b>Prof David Cosgrove, Professor of Clinical Ultrasound, Imperial College, London and King's College Hospital, London</b>
<b>09.30 – 10.00</b> 	<b>Introduction to CEUS</b> Technical and clinical basics of CEUS  <b>Prof Martin Krix, Bracco Imaging, Konstanz, Germany</b>
<b>10.00 – 10.30</b> 	<b>Adult CEUS EFSUMB Guidelines</b> The evolving CEUS Guidelines are introduced with comments on their application to paediatrics.  <b>Prof David Cosgrove, Professor of Clinical Ultrasound, Imperial College, London and King's College Hospital, London, UK</b>
<b>10.30 – 11.00</b> 	<b>Safety of CEUS in Adults and Children</b> Ultrasound contrast agents are driven to vibrate by a diagnostic ultrasound beam. In this talk, the possible biological consequences of this motion are discussed and put into context of the safety of CEUS.  <b>Prof Gail terHaar, Therapy Ultrasound, Joint Department of Physics, Division of Radiotherapy and Imaging, Royal Marsden Hospital : Institute of Cancer Research Sutton, UK</b>
<b>11.00 - 11.30</b>	<b>BREAK</b>
<b>11.30 – 11.50</b> 	<b>Legal aspects in Children: Using CEUS Off Licence</b> This lecture will demonstrate the standing in legal terms for the use of medicines 'off-label' in the adult population, with extrapolation to the child. Evidence based findings, regulatory view, and the legal aspect will be discussed.  <b>Prof Paul Sidhu, Professor of Imaging Sciences, King's College , London, UK</b>

<p><b>11.50 - 12.20.</b></p> 	<p><b>Paediatric Application: Regulations/Clinical Trials/Future Developments</b></p> <p>Discussion regarding regulatory background, new clinical studies and indications for CEUS, and the future of paediatric CEUS</p> <p><b>Prof Martin Krix, Bracco Imaging, Konstanz, Germany</b></p>
<p><b>12.20 – 12.50</b></p> 	<p><b>Current status in Paediatrics/EFSUMB Registry</b></p> <p>The need to collect convincing data for the implementation of this technique into acceptable clinical practice.</p> <p><b>Prof Christoph F Dietrich, EFSUMB President 2013-2015, Professor of Gastroenterology, Bad Mergentheim, Germany and Dr Dagmar Schreiber-Dietrich Pediatric Gastroenterologist Wasserburg Germany</b></p>
<p><b>12.50 – 14.00</b></p>	<p><b>LUNCH</b></p>
<p><b>14.00 – 14.30</b></p> 	<p><b>Blunt Abdominal Trauma in Children: The Surgical View</b></p> <p>An overview of the surgical management of blunt abdominal trauma in the paediatric patient and the role of imaging in clinical management</p> <p><b>Miss Erica Makin, Consultant Paediatric Hepatobiliary Surgeon, King's College Hospital, London, UK</b></p>
<p><b>14.30 – 15.00</b></p> 	<p><b>CEUS in Paediatric Blunt Abdominal Trauma</b></p> <p>The use of CEUS in blunt abdominal trauma in children is detailed, with the position of CEUS in relation to CT of the abdomen highlighted with the reduction in radiation paramount in our practice.</p> <p><b>Dr Annamaria Deganello, Consultant Paediatric Hepatobiliary Radiologist, King's College Hospital, London, UK</b></p>
<p><b>15.00 – 15.30</b></p> 	<p><b>Liver Disease in Children: Clinical Overview</b></p> <p>Investigation into causes of acute and chronic liver disorders of childhood heavily relies on modern radiological methods. Bidirectional clinical communication is essential in order to ensure optimal and acceptably invasive work up with minimal side effects</p> <p><b>Prof Dino Hadzic, Consultant in Paediatric Hepatology Paediatric Centre for Hepatology, Gastroenterology and Nutrition, King's College Hospital, London, UK</b></p>
<p><b>15.30 – 16.00</b></p>	<p><b>BREAK</b></p>

<p><b>16.00 – 16.30</b></p> 	<p><b>CEUS in the Paediatric Liver: A Problem Solving Tool</b></p> <p>Our extensive experience of assessing and characterising incidental focal liver lesions in children. The position of CEUS in the imaging pathway is discussed.</p> <p><b>Dr Maria Sellars, Consultant Paediatric Hepatobiliary Radiologist, King's College Hospital, London, UK</b></p>
<p><b>16.30 – 17.00</b></p> 	<p><b>CEUS in Paediatric Oncology</b></p> <p>This lecture will review our experience with CEUS in clinical trials of pediatric solid tumors. I will also discuss the value of CEUS as a problem solving tool in this patient population.</p> <p><b>Prof Beth MacCarville, Pediatric Radiologist, Department of Radiological Sciences, St. Jude Children's Research Hospital, Memphis, Tennessee, USA</b></p>
<p><b>19.30 -22.30</b></p>	<p><b>COURSE DINNER</b></p>



	<b>FRIDAY 26<sup>th</sup> JUNE 2015</b>
<b>09.00</b>	<b>Welcome and Coffee</b>
<b>09.30 - 10.00</b> 	<b>Current Review of the Literature on Paediatric CEUS</b> <p>Recently published papers show not only the trends in CEUS examinations. Some of them help consolidate the knowledge as well as inspire researchers to their own experiments. Therefore, knowledge about CEUS publications in children population is essential for each who would like go deeper into CEUS world.</p> <p><b>Prof Maciej Piskunowicz, Department of Radiology, Medical University of Gdansk, Poland</b></p>
<b>10.00 - 10.30</b> 	<b>The USA Situation</b> <p>After a slow start, pediatric contrast ultrasound activity in the United States is increasing, with more clinical research, and more off label use of contrast. There are still structural problems to be overcome, including lack of FDA approval for pediatric applications, a more adversarial legal environment, and issues regarding compensation for contrast. Despite these problems, the outlook for increased pediatric CEUS activity is encouraging.</p> <p><b>Prof Frank Volberg, Professor of Radiology and Chief, Pediatric Radiology, Georgetown University Medical Center, Washington D.C. USA</b></p>
<b>10.30 - 11.00</b> 	<b>Clinical Experience from Europe</b> <p>Current status of paediatric CEUS in Europe. Brief overview on the potential role of contrast US studies in the everyday practice.</p> <p><b>Prof Zoltan Harkanyi, Radiologist, Department of Paediatric Radiology, Heim Pal Hospital, Budapest, Hungary</b></p>
<b>11.00 - 11.30</b>	<b>BREAK</b>
<b>11.30 – 12.00</b> 	<b>Contrast enhanced Voiding Urosonography (ceVUS): Current status</b> <p>The intravesical administration of US contrast agent for diagnosis of vesicoureteric reflux in children is a safe method with higher diagnostic yield than conventional imaging and without radiation. Advanced contrast scan modalities allow short examination time, detection of minimal reflux and intrarenal reflux, 3D visualization and contrast urethronography. ceVUS has the potential to completely replace fluoroscopic and scintigraphic reflux studies.</p> <p><b>Prof Kassa Darge, Professor of Radiology and Surgery, University of Pennsylvania, Chief, Division of Body Imaging, Dept. of Radiology, The Children's Hospital of Philadelphia, Philadelphia, USA</b></p>

<p><b>12.00 – 12.30</b></p>  	<p><b>How we set up a Service</b></p> <p>This will be a discussion about our experiences in setting up paediatric contrast ultrasound services at The Royal London Hospital and at Great Ormond Street Hospital.</p> <p><b>Dr Anoushka Ljutikov, Consultant Paediatric Radiologist, Royal London Hospital , UK</b></p> <p><b>Dr Paul Humphries, Consultant Paediatric Radiologist, Great Ormond Street Hospital, London, UK</b></p>
<p><b>12.30 – 13.00</b></p> 	<p><b>Miscellaneous Applications in Paediatric Practice</b></p> <p>A ‘tour’ of the areas where improvisation and lateral thinking allows a radiation free diagnostic procedure in the child.</p> <p><b>Dr Annamaria Deganello, Consultant Paediatric Hepatobiliary Radiologist, King’s College Hospital, London, UK</b></p>
<p><b>13.00 - 1400</b></p>	<p><b>LUNCH</b></p>
<p><b>14.00 – 16.00</b></p>     	<p><b>Live Cases</b></p> <p>A series of children with focal liver lesions will be assessed ‘live’ during the afternoon by experienced operators with the opportunity for delegates to be present in the scanning rooms. The case will be then discussed ‘off-line’ with relevant CT and MR imaging presented. A variety of ultrasound machines will be used, with delegates witnessing the whole procedure.</p> <p><b>Dr Sanjay Bansal, Consultant Paediatrician, King’s College Hospital, London, UK</b></p> <p><b>Dr Suzanne Ryan, Dr Maria Sellars and Dr Annamaria Deganello, Consultant Adult and Paediatric Hepatobiliary Radiologists, King’s College Hospital, London, UK</b></p> <p><b>Case Presentations by Fellows/Residents</b></p> <p>Cases from the ‘archives’ will be presented in a ‘case-report’ fashion over the afternoon as the live cases are being set-up. Interesting paediatric CEUS cases will demonstrate the ‘problem-solving’ nature of CEUS.</p> <p><b>Dr Tim Yusuf, Fellow in Radiology, King’s College Hospital, London, UK</b></p>
<p><b>16.00-16.30</b></p>	<p><b>Course Assessment</b></p> <p><b>Discussion</b></p> <p><b>COURSE CLOSES</b></p>