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Samsung Satellite Symposia at ECR 2018 - Transforming Radiology with a New Healthcare Solution



Today, every health system struggles with finding answer to enhance patient experience and meet the needs of healthcare providers. In this sense, Samsung made efforts to show transformational changes in radiology and make it possible to turn challenges into opportunities. Samsung aims to change the industry by incorporating innovations in physical access to provide care wherever it is needed, improve accuracy in diagnosis with advanced algorithms and also bring efficiency with optimized user experience.

At ECR this year, Samsung is hosting Satellite Symposia that will explore a wide variety of topics on the ultrasound imaging and digital radiography technologies. The event is a two-day forum that takes place at the Vienna Center, Austria on Thursday the 1st and Friday the 2nd of March 2018. The Symposium agenda includes Multiparametric Ultrasound Imaging on the first day and Innovations in Samsung's Digital Radiography Technologies on the next day.

Multiparametric Ultrasound Imaging

On March 1st, Professor Vito Cantisani from University La Sapienza of Rome, Italy will present his findings from his work on the use of CEUS- and 3D, Arterial Analysis™ US scans for the Assessment of Carotid Plaque Morphology and compare this to the diagnostic capability of Computer Tomographic Angiography (CTA) in determining the presence of vulnerable plaque. According to the primary results of his study- 3D Arterial Analysis™ has the potential to provide a 3-D map, which is useful in surgery planning and assures precise measurements of the grade of stenosis. Moreover, the software adds new information by supplying a colorimetric evaluation of the carotid wall's vulnerability.

The next topic will be presented by professor Dirk-André Clevert at the Ludwig Maximilians University Hospital of Munich. He will be sharing his expertise on Diagnosis and Treatment of Hepatocellular Carcinoma by CEUS. His presentation will include how CEUS can provide vital information to cross-sectional imaging. Tumor vascularization can be visualized by CEUS during and after a transarterial chemoembolization or a radiofrequency ablation to control therapy success. The speaker will talk about advantages of CEUS which are that ultrasound contrast medium is not toxic and does not influence the thyroid gland.

Lastly, Professor Tommaso V. Bartolotta of the University of Palermo, Italy will present his finding discuss on the Comparison of US Strain Elastography and Entero-MRI to Typify the Mesenteric and Bowel Wall Changes During Crohn's Disease. He will share his experience in comparing Strain Elastography (SE) and Enterography Magnetic Resonance Imaging (E-MRI) techniques for the differentiation between edematous and fibrotic changes in Crohn's Disease, including the adjacent mesenteric fat.

Samsung's Digital Radiography Technologies

The second day symposium starts with the Experiences with Samsung Digital Radiography at Freiburg University Hospital. Professor Doctor Elmar Kötter from Germany will present on the initial experiences with Samsung's Digital Radiography (DR) technology at the institution. Two DR innovations utilizing the deep-learning (DL) algorithms will be introduced with their preliminary results- single exam bone suppression imaging and computer-aided detection (CAD) for lung cancer nodules. An application of bone suppression imaging to various subtle lung lesions will be reviewed with clinical evidences, and the detection accuracies of CAD, radiologists, and radiologists with CAD assistance in reading chest PA digital radiography images will be compared.

The next speaker Professor Doctor Kay-Geert Hermann will deliver presentation on the Value of X-ray in the Diagnosis and Follow-Up of Rheumatic Diseases. Is radiography still a relevant technique for diagnosis and follow-up of rheumatic diseases? Dr. Hermann will highlight important features of peripheral arthritides that facilitate diagnosis of rheumatoid arthritis and psoriatic arthritis. Established scoring methods will be presented and findings resembling disease progression will be reviewed. During his talk, the author will also comment on initial experiences with Samsung's low-dose Digital Radiography technology S-Vue™.

Last but not least, Won-Chul Bang, Vice President of Samsung Electronics R&D, will talk about innovations in Samsung's digital radiography technologies. Various clinical evidences of dose reduction without image quality compromise using S-Vue™ imaging engine will be presented. The new imaging engine showed equivalent image quality when the X-ray dose was reduced by half. Results from a clinical trial using Samsung's SimGrid™ technology which showed an improvement in workflow will be shared. Bone-Suppression technology in emergency radiology setting shows improved diagnostic performance.

Multiparametric Ultrasound Imaging

March 1, Thursday (Room N, 1st Level)

Time	Topic	Speaker
12:30 ~ 12:50	CEUS and 3D US for Assessment of Carotid Plaque Morphology	Prof. Vito Cantisani (Italy)
12:50 ~ 13:10	Diagnosis and Treatment of Hepatocellular Carcinoma by CEUS	Prof. Dirk-André Clevvert (Germany)
13:10 ~ 13:30	Comparison of US Strain Elastography and Entero-MRI Typify the Mesenteric and Bowel Wall Changes During Crohn's Disease	Prof. Tommaso V Bartolotta (Italy)

Innovations in Samsung's Digital Radiography Technologies

March 2, Friday (Studio 2018, 1st Level)

Time	Topic	Speaker
12:30 ~ 12:50	Experiences with Samsung Digital Radiography at Freiburg University Hospital	Prof. Elmar Kotter (Germany)
12:50 ~ 13:10	Value of X-Ray in the Diagnosis and Follow-Up of Rheumatic Diseases	Prof. Kay-Geert Hermann (Germany)
13:10 ~ 13:30	Innovations in Digital Radiography Dose Reduction by Samsung	Won-Chul Bang (VP of Samsung Electronics, Korea)

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Published on : Wed, 28 Feb 2018