

ESAOTE LAUNCHES EVOLUTION'15 AT ECR 2015: THE LATEST MRI UPGRADE DELIVERING IMPROVED IMAGE QUALITY WHILST SPEEDING UP CLINICAL WORKFLOW

- **EVO'15 for G-Scan Brio enables '10 minute weight-bearing MRI protocol'**

23 February 2015 [GENOA, ITALY] - At ECR 2015 **Esaote**, a world leading manufacturer of medical diagnostic systems, introduces **Evolution'15 (EVO'15)** as the latest upgrade in its dedicated MRI Evolution program. EVO'15 combines software updates and new hardware features to provide superb image quality and increases productivity by almost 50%.

Enhanced Productivity and Increased Image Quality

Powered by eXP technology, Evolution'15 reflects the continual collaboration between Esaote's R&D team and clinicians that ensures its dedicated MRI offering remains at the cutting edge. Evolution'15 is available across Esaote's entire MRI portfolio and provides the following benefits:

- **Increased image quality** for better diagnostic accuracy, due to a combination of sophisticated software algorithms (eXP technology), graphic processing unit (GPU) and X-MAR (Metal Artefact Reduction) which reduces inhomogeneity, allowing for a better evaluation of the prosthesis
- **Reduced image acquisition and reconstruction times** by as much as 50%, thanks to Speed-Up Pro, helping to increase throughput and minimise patient discomfort
- **Increased signal homogeneity and SNR** as a result of the multichannel lumbar and cervical spine coils

'10 Minute Weight-Bearing Protocol'

By combining patented Speed-Up technology with GPU-based image reconstruction, the EVO'15 upgrade for Esaote's G-scan Brio, enables a very fast acquisition protocol for evaluation of spine morphology in the weight-bearing position, for the first time ever - in under 10 minutes.

Dr Frieder Mauch, Head of the Department of Shoulder and Elbow Surgery and MR Imaging at Sportklinik Stuttgart in Germany, uses the Evolution'15 upgrade with Esaote's weight-bearing G-scan Brio: *"Having two or more images showing what is happening when the patient is in different weight-bearing positions can give a better idea of the mechanical issue causing the pain. Before the EVO'15 Upgrade, this exam procedure took longer, which meant greater patient discomfort, and more movement artefacts. Now, with the EVO 3D sequence, we can run just one steady state sequence in just one plane, and then reconstruct images in any other plane using the MPR (Multi Planar Reconstruction) features. This makes for a full weight-bearing exam in less than 10 minutes."*

With its new eXP technology, Esaote has achieved a reduction in scan time of up to 50%. This enables a significant increase in patient throughput, improving system economics for a maximum return on investment.

Eugenio Biglieri, MRI Global Marketing Director at Esaote, explains, *“The eXP technology developed for the Evolution’15 upgrade has been engineered to achieve the ‘seemingly impossible’: improve image quality, yet reduce scan time.”*

EVO’15: Software Upgrades

The Evolution’15 upgrade has been designed to meet increased demand from physicians and clinics wishing to offer high-quality, on-site dedicated MRI services:

- **EVO 3D:** isotropic 3D sequences reduce voxel size, enabling high resolution Multi-Planar Reconstruction. Used in conjunction with Speed-Up Pro, scan times are reduced by almost 50%
- **X-MAR:** uses new **imaging sequences** that increase signal to noise ratio, yet also reduce scan time. Visualisation is improved using enhanced image contrast and metallic artefact reduction to reduce in-plane metal distortions (ideal for evaluating prosthesis instabilities and for post-operative patients)
- **e-Spine:** optimised spine protocols and examination management for image clarity, plus improved patient comfort and operator usability
- **Speed-Up Pro:** enables superior image quality in reduced scan time, due to enhanced acquisition and reconstruction methods

EVO’15: Hardware Features

EVO’15 includes brand new multi-channel coil upgrades for performance-enhanced ergonomics and patient comfort. The advanced technology has been developed by using low-impedance pre-amplifier which is able to achieve a more efficient channel de-coupling for maximum signal detection. For a full range of coils and features, click [here](#)

EVO’15 is available across Esaote’s dedicated MRI product range, including the **O-scan**, **S-scan** and **G-scan Brio**.

Also at ECR 2015

Esaote will showcase **Virtual Navigator fusion imaging** which enables users to fuse real-time ultrasound images with magnetic resonance imaging (MR), computed tomography (CT), positron emission tomography (PET) and 3D ultrasound. Particularly useful for liver and other abdominal interventions, [Virtual Navigator](#) can also be used for urological, musculoskeletal, peripheral vascular, and transcranial exams.

Esaote @ ECR 2015: Esaote will be exhibiting at the European Congress of Radiology 2015, Vienna, 3-8th March 2015. **Location:** Entrance Level - Expo Extension A - Booth No. 8

For more information on Esaote @ ECR:

- [Esaote in Dedicated MRI at ECR 2015](#)
- [Esaote in Ultrasound at ECR 2015](#)

Ultrasound:

The following systems will be on show:

MyLabTMTwice eHD CrystaLine with Virtual Navigator fusion imaging

MyLabTMSix

MyLabTMGamma

MyLabTMSeven

MyLabTMAlpha

Dedicated MRI:

Clinical image presentations will be given at the Esaote booth by the team to illustrate the new features and performance capabilities of the Evolution'15 upgrade in dedicated MRI.

Healthcare IT

At ECR 2015 EBIT-ESAOTE GROUP will showcase **SUITESTENSA**, the evolution of its [RIS PACS Healthcare IT](#) software platform. SUITESTENSA's Enterprise Workflow embodies the most advanced Structured Report, 3D/4D and Mobile Solutions, and is always investigating new challenging hallmarks, as with the new 3D Breast Tomosynthesis application.

White Papers

[G-scan Brio EVO'15 testimonial](#) - Dr Frieder Mauch, Stuttgart, Germany

[S-scan EVO'15 testimonial](#) - Dr Daniele Messori, Italy

About Esaote

With €276 million in consolidated sales in 2013 (of which 65% were generated from international markets), Esaote Group is a leading player in the biomedical equipment sector, with a particular focus on ultrasound, dedicated magnetic resonance, and software for managing the diagnostic process. Esaote has about 1,250 employees, 50% of which are based outside of Italy. Esaote has manufacturing and research units in Italy, the Netherlands and China (Shenzhen). Esaote is internationally recognised as one of the "Top Ten" diagnostic imaging companies in the world, and enjoys the co-operation of worldwide scientific and clinical research centres and universities. Esaote has filed more than 120 international patents.

Information about the Esaote Group and its products is available at www.esaote.com

Technology and features are system/configuration dependent. Specifications are subject to change without notice. Information might refer to products or modalities not yet approved in all countries. For further details, please contact your Esaote sales representative.