

evo^{'15}lution

Dedicated MRI S-scan



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Dr. Daniele Messori, medical radiologist specializing in radio-diagnostics, Tumor Institute, Milan, Italy

This testimonial white paper has been produced courtesy of Dr. Daniele Messori, a user of the Esaote S-scan dedicated MRI system with the latest upgrade; eXP Technology, included as part of the Evolution '15 package (EVO '15).

How long have you been an Esaote customer?

I've been an Esaote user since 2004, starting with an Artoscan system, a dedicated MRI system for MSK applications. After that, we upgraded to the Opera and S-scan systems - evolutions of the previous system thanks to introduction of spine applications.

Over the years, there've been continual developments from Esaote, enabling me to achieve better overall image quality. This was made possible thanks to continual upgrades and new coil introductions, with remarkable results.

As such, I could extend the life-cycle of my system without looking for an alternative solution from the market.

What is the latest upgrade you've used?

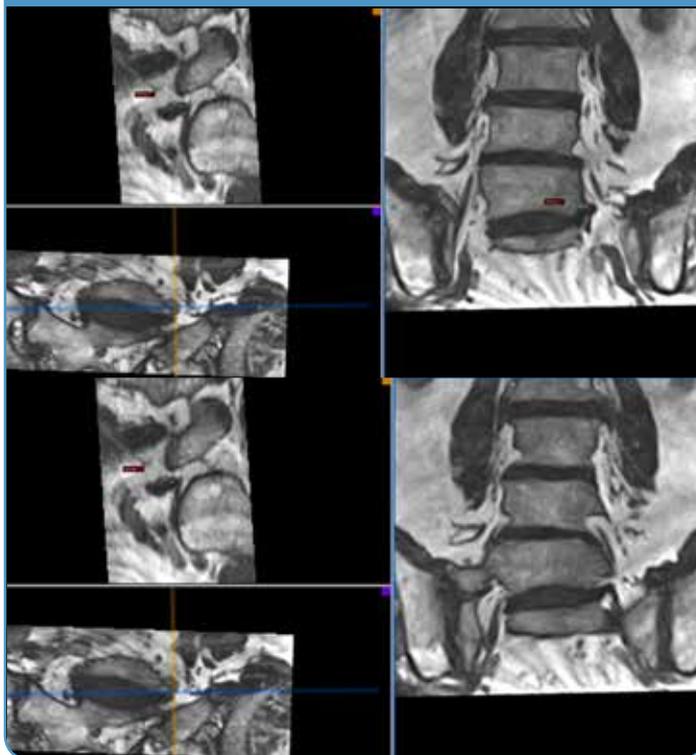
We recently upgraded our S-scan system to the eXP Technology platform included in the Evolution'15 package (EVO '15). This guarantees advanced features in terms of image acquisition/reconstruction.

Now, we can acquire exams in shorter times, improving drastically image quality, increasing patient comfort and reducing movement artefacts because the shorter scan time.

The Evolution '15 package also provides better 3D acquisition capabilities which allow for higher spatial resolutions (voxel size < 1 mm) in a reasonable scan time. This is thanks to improved software and hardware capabilities (GPU).

Furthermore, the Evolution '15 package can manage multi-channel coils, such as the new L-spine and C-spine, which provide a better signal homogeneity and signal-to-noise ratio thanks to adoption of multi-channel technology

Example of clinical applications of 3D Hyce isotropic sequences with MPR: left L4 radiculopathy caused by osteophytes in extra-foraminal location (not seen on conventional sagittal and axial scans)



What is your personal opinion from a clinical perspective of the EVO '15 package?

I found an overall improvement on anatomical details, such as cartilage rhyme and intraforaminal spaces. This higher image resolution allowed me to achieve a more accurate diagnosis without increasing scan time, as shown by the attached clinical cases.



Dr. Daniele Messori

Dr. Daniele Messori is a medical radiologist specializing in radio-diagnostics at the Tumor Institute in Milan. Currently he works as a referring radiologist at two private clinic centers: Amulatorio Dr. Messori and La Vialarda Clinic, Biella, Italy.





S-scan
Esaote Dedicated MRI

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