

FOUR CONVENIENT **LOCATIONS**



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COME TO RIVER RADIOLOGY FOR THE
HIGHEST QUALITY IMAGING

We have markedly improved MRI quality for the benefit of our referrers and your patients.

Higher image resolution means more complete diagnostic appraisal.

The resolution of MRI images and direct correlation with true anatomy depends on the way that MR sequences are set up and used by Technologists and MR Radiologists.

Most MRI images carry only a sample of the available anatomical information.

BONE MR

MR has difficulty in assessing calcium or bone. We can now offer true ZERO TE imaging which gives a CT like image of bone. GE is the only vendor with true Zero TE imaging.

MR can now give you the preop images you need of fractures etc without having to go to CT.

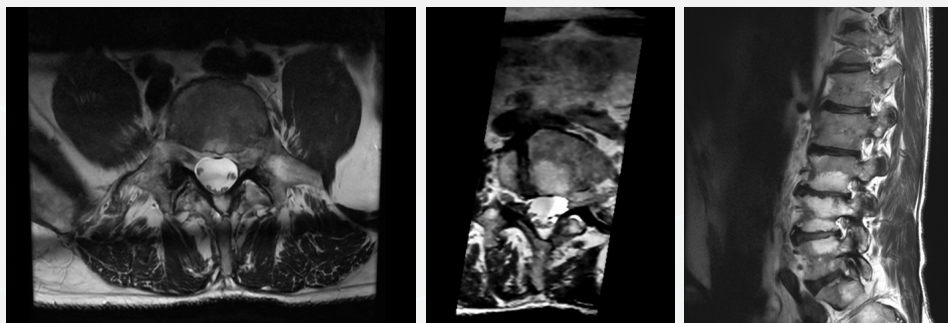


Continuing pain at fracture site. Standard MR sequences show prominent periosteal new bone But do not clearly reveal ununited fracture, ZERO TE imaging shows it in a few minutes (in 3 Planes) Without the need for CT imaging.

3D SPINE IMAGING

3D sequences usually have no interslice gap which helps increase their resolution.

But until recently 3D sequences have not had Artificial Intelligence or Deep Learning. (DL) applied. GE medical can now do this, further increasing the resolution of very thin slice 3D images. We can now give you very precise reformats of 3D acquired sequences.

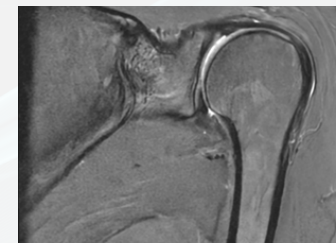


Difficult visualisation of compressed left L5 roots by bone spur, on left is standard oblique axial T2. And beneath standard sagittal T2. Both suffer from volume averaging. The reformatted 3D CUBE T2.

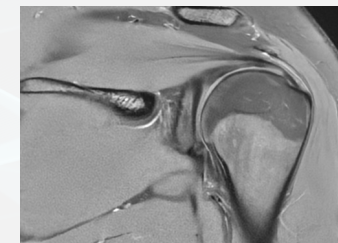
Oblique axial (above right) with DEEP LEARNING shows the degree of compression more accurately.

NOISE REDUCTION

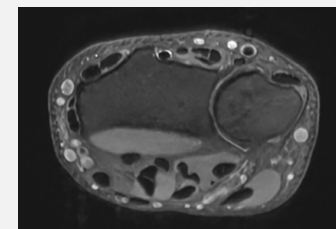
PROPELLER Noise reduction, combined with Deep Learning, gives high resolution shoulder images free of movement artefact. Thus shortening average scan time for a shoulder exam and increasing resolution.



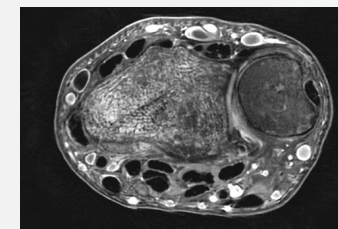
Standard PD Fat Sat Obl Sag Shoulder
Note Motion artefact



PD Fat Sat with DL and Propeller Noise reduction. Motion Artefact much reduced. A RELIABLE answer to shoulder movement artefact.



Standard PD Fat sat axial



PD Fat Sat axial with Propeller; much sharper resolution

NERVE IMAGING

MENSA nerve sequences and High Res STIR sequences now have DL added and 3D. Brachial Plexus and nerve roots like never before!

