

SIEMENS 3T MRI

AT
IMAGING SPECIALISTS ROUSE HILL

**MAGNETOM Lumina
with BioMatrix**

**Confidence
to deliver**



**SIEMENS
Healthineers**

📍 Ground Floor, 32 Civic Way, Rouse Hill NSW 2155, Australia
☎ 02 8614 8400 ✉ bookings@imagingspecialists.com.au
📄 02 8614 8499 🌐 www.imagingspecialists.com.au

MAGNETOM Lumina **Confidence to deliver**

At the core of its impressive acquisition speed lies our exclusive Turbo Suite allowing for up to 50 %1 faster routine scans. And with the further objective to reduce the overall patient time slot in your institution, MAGNETOM Lumina offers additional remarkable innovations to boost workflow efficiency.

Turbo Suite

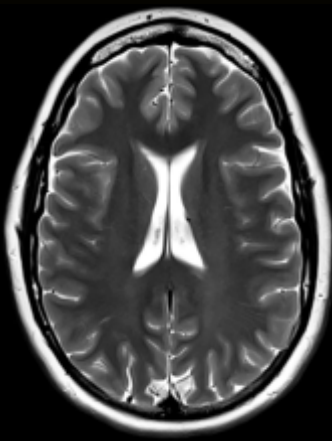
Turbo Suite Essential

Be ahead in scan time and maximize productivity with core MR acceleration technologies

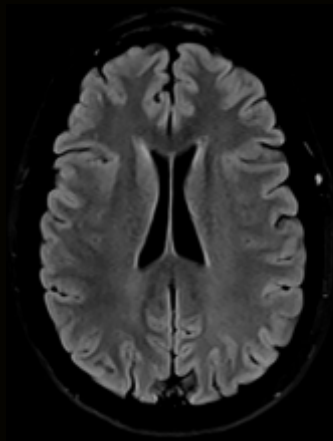
Turbo Suite Essential is our standard acceleration package for MAGNETOM Lumina. This package leverages high element density coils, the parallel imaging techniques GRAPPA and our unique CAIPIRINHA to deliver routine exams in 10 to 15 minutes¹.



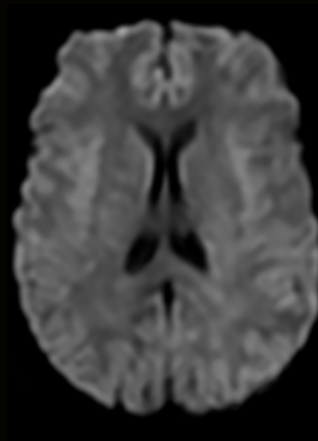
Neuro imaging



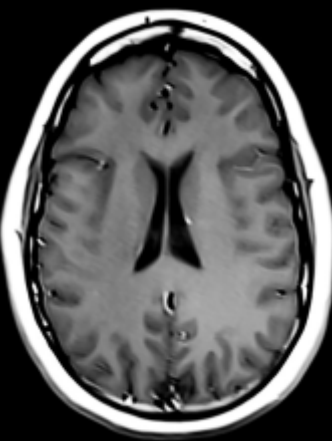
T2 TSE
0.6 x 0.6 x 4 mm³, TA 1:30 min
2aaaa1372



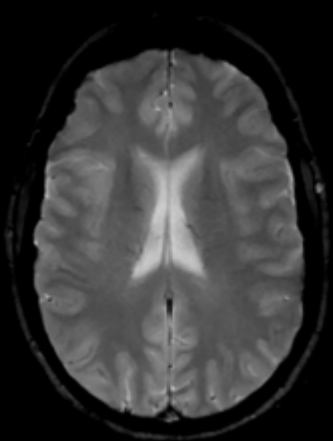
T2 Dark Fluid
0.8 x 0.8 x 4 mm³, TA 1:21 min
2aaaa1372



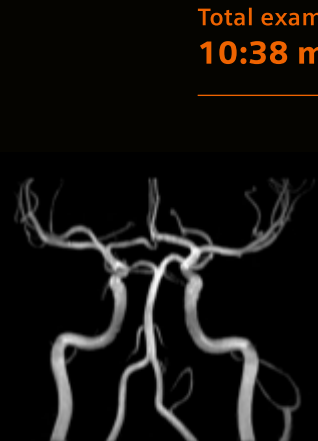
DWI, b50 b1000
1.1 x 1.1 x 4 mm³, TA 1:01 min
2aaaa1372



T1 SE
0.6 x 0.6 x 4 mm³, TA 1:10 min
2aaaa1372



T2*
0.8 x 0.8 x 4 mm³, TA 1:27 min
2aaaa1372



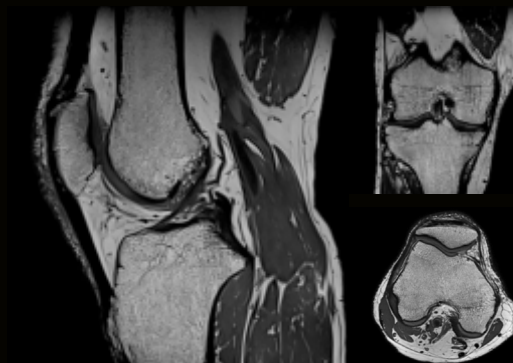
3D TOF
0.3 x 0.3 x 0.6 mm³, TA 4:08 min
2aaaa1372

Total exam
10:38 min

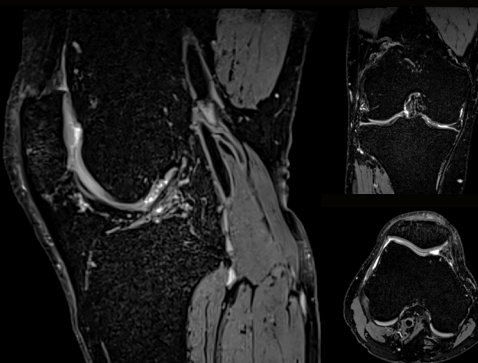
Routine exams in
10–15 minutes¹

Isotropic 3D MSK exams utilize the power of CAIPIRINHA, delivering all clinically relevant contrasts in 10 minutes. For body imaging, up to 50%¹ shorter breath-holds and high-resolution scans are possible with CAIPIRINHA.

MSK imaging – 3D exam



3D PD CAIPIRINHA SPACE, CAIPIRINHA 4
0.5 mm iso, TA 4:34 min
2aaaa1252



3D T2 CAIPIRINHA SPACE FS, CAIPIRINHA 4
0.6 mm iso, TA 4:31min
2aaaa1252

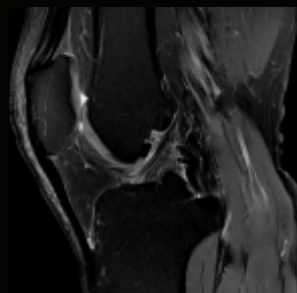
Total exam
9:05 min
enabled by unique
CAIPIRINHA SPACE

Turbo Suite Excelerate Be up to 50%¹ faster for routine, clinical exams

Turbo Suite Excelerate introduces a paradigm shift in productivity with up to 50%¹ time savings, for all contrasts, orientations, and body regions. Dramatically transform care delivery with cutting-edge acceleration technologies Simultaneous Multi-Slice and planned Compressed Sensing² for static 2D and 3D imaging, covering neurological, orthopedic, and body MRI.

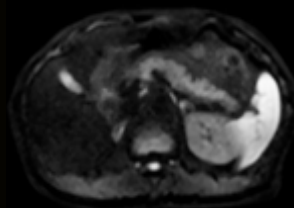
Simultaneous Multi-Slice

Conventional



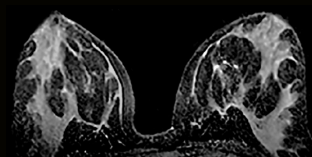
PD TSE FS, PAT 2
0.5 x 0.4 x 3 mm³
TA 2:42 min
2aaaa1253

50 % reduction



DWI, PAT 3, b50 b800
1.4 x 1.4 x 5 mm³
TA 4:07 min
2aaaa1353

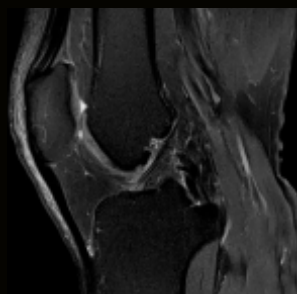
40 % reduction



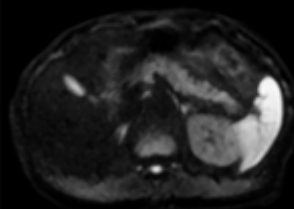
RESOLVE⁸, b50 b800
1.2 x 1.2 x 5 mm³
TA 4:21 min
0aaaa0001

60 % reduction

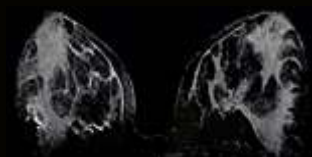
Turbo Suite
Excelerate with
Simultaneous
Multi-Slice and
Compressed
Sensing



SMS TSE, PAT 2 SMS 2
0.5 x 0.4 x 3 mm³
TA 1:21 min
2aaaa1253



SMS DWI, PAT 2 SMS 2,
b50 b800
1.4 x 1.4 x 5 mm³
TA 2:27 min
2aaaa1353



SMS RESOLVE^{2,8}, SMS 3,
b50 b800
1.2 x 1.2 x 5 mm³
TA 1:44 min
0aaaa0001



Up to
50 % time savings¹

Turbo Suite

Allow more time to perform dedicated sequences to target suspected pathology.

In addition to our latest Simultaneous Multi-Slice applications for EPI and TSE, the Excelerate package provides future security with granted access to planned new acceleration techniques including Simultaneous Multi-Slice RESOLVE² as well as Compressed Sensing acceleration for SPACE², TOF² & SEMAC².

Compressed Sensing



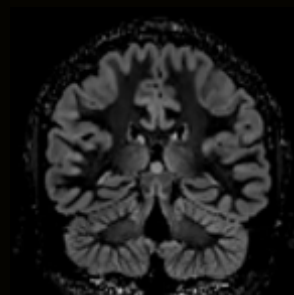
3D TOF Angio⁶, PAT 2
0.4 mm iso
TA 4:28 min
3aaaa0784

56 % reduction



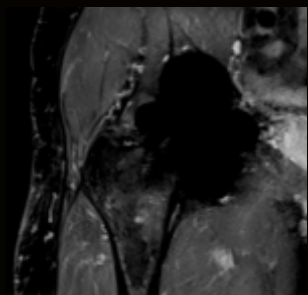
3D T2 SPACE MRCP⁶
0.5 x 0.5 x 1.0 mm³
TA 7:16 min
3aaaa0783

97 % reduction



3D T2 SPACE DIR⁸
1.4 mm iso
TA 6:07 min
3aaaa0784

49 % reduction



SEMAC^{8,9}
1.2 x 1.2 x 3 mm³
TA 11:10 min
3aaaa1793

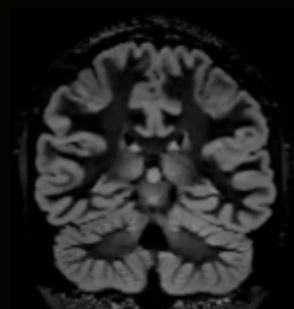
51 % reduction



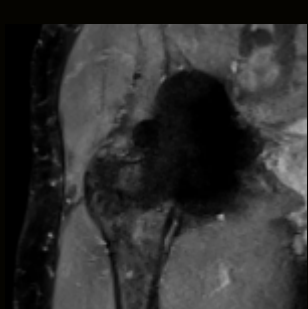
3D CS TOF Angio^{2,8}, CS 10
0.4 mm iso
TA 1:58 min
3aaaa0784



3D T2 CS SPACE MRCP^{2,8}, CS 23
0.5 x 0.5 x 1.0 mm³
TA 0:15 min
3aaaa0783



3D T2 CS SPACE DIR^{2,8}, CS 7
1.0 mm iso
TA 3:07 min
3aaaa0784



CS SEMAC^{2,8,9}, CS 8
1.2 x 1.2 x 3 mm³
TA 5:30 min
3aaaa1793



Streamline patient handling with BioMatrix technology

BioMatrix technology overcomes variations by automatically adjusting to the individual patient. BioMatrix Sensors, Tuners, and Interfaces enable you anticipate motion, adapt to any patient's body type and accelerate patient positioning. The result: higher diagnostic confidence, fewer rescans, predictable scheduling and consistent, high quality personalized exams.

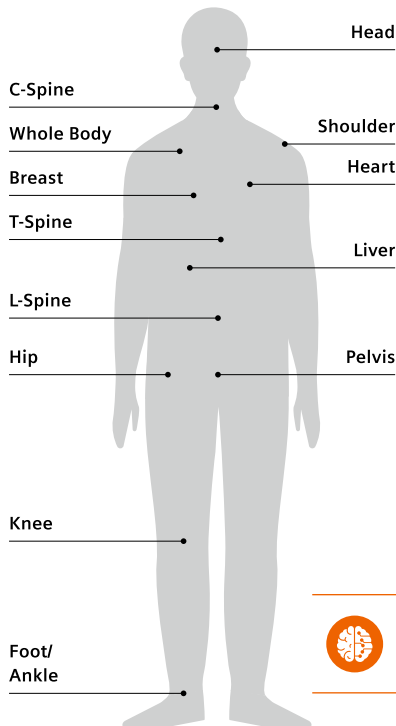
Dot Engines



30 % faster
patient positioning¹

BioMatrix Select&GO

Powered by artificial intelligence – the BioMatrix Select&GO touch display enables patient positioning with one-touch, accelerating patient positioning by up to 30 %¹.



Intelligent
Body Model
powered by AI

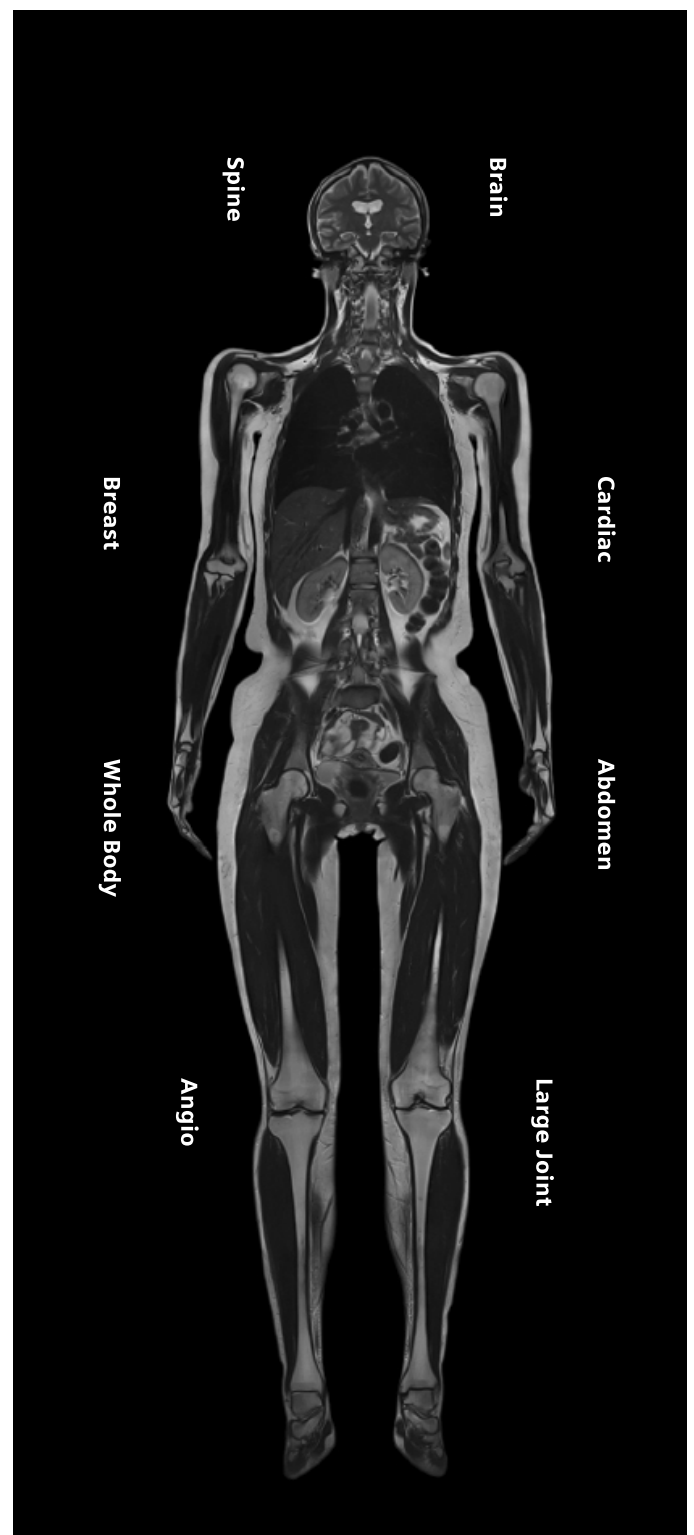
Over 90 %
of MRI exams covered



Dot Engines powered by
artificial intelligence

Automated reproducibility with Dot Engines

MAGNETOM Lumina's eight unique Dot Engines tailored to different body regions provide highly automated scan procedures for more than 90% of all MRI exams. Each Dot Engine provides a comprehensive guidance system and predefined scan strategies. AutoAlign, powered by artificial intelligence, delivers automatic placement of imaging slices to ensure reproducible scan results – every time.

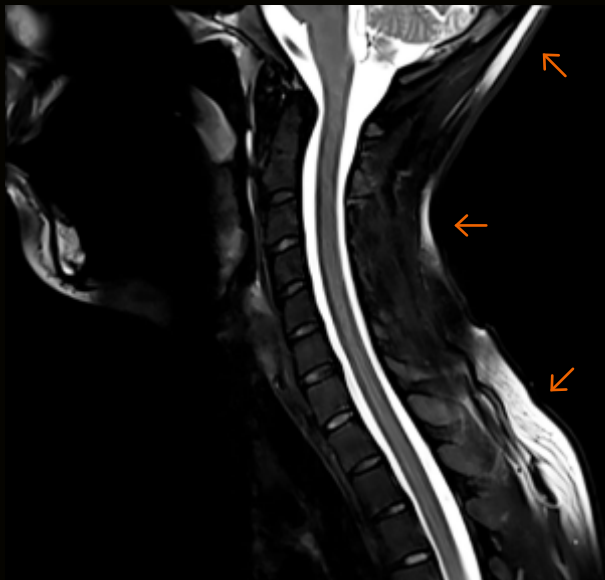


Adapt to challenging anatomies for reliable results with BioMatrix Tuners



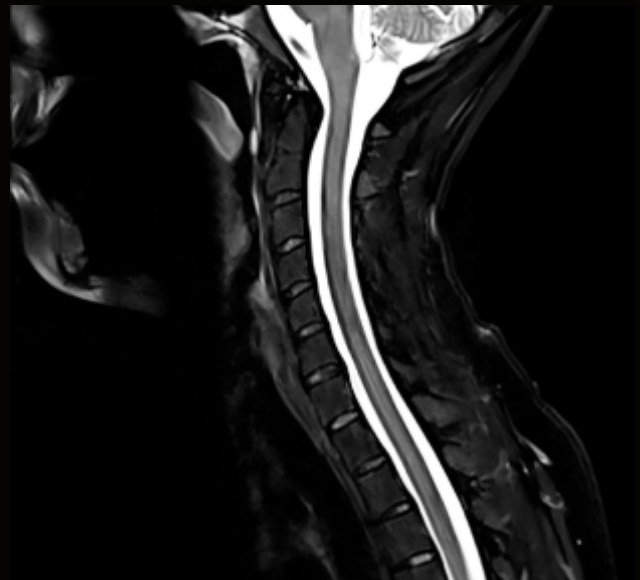
BioMatrix Tuners adapt to challenging anatomies, such as the head/neck area, the spine and the abdomen, for reliable exam results. Even for difficult scan regions, our intelligent coil technology consistently delivers excellent homogeneity and fat saturation – driving robustness and reproducible high-quality imaging – for every patient, every time.

Significantly improved fat saturation and image quality with BioMatrix Tuner CoilShim



Conventional Shim

2aaaa1257



With CoilShim

2aaaa1257

Integrated into the new BioMatrix Head/Neck 20 coil, CoilShim increases diagnostic quality and reduces the need for repeat scans by delivering improved fat saturation and better DWI quality in the neck region. CoilShim technology ensures that the challenging area is automatically and optimally shimmed for reproducible quality in every patient.

Provide more diagnostic confidence to Radiologists.