

# TIME MEDICAL SYSTEMS



**emma**  
Full Body MRI System



# TIME MEDICAL SYSTEMS

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# Vision

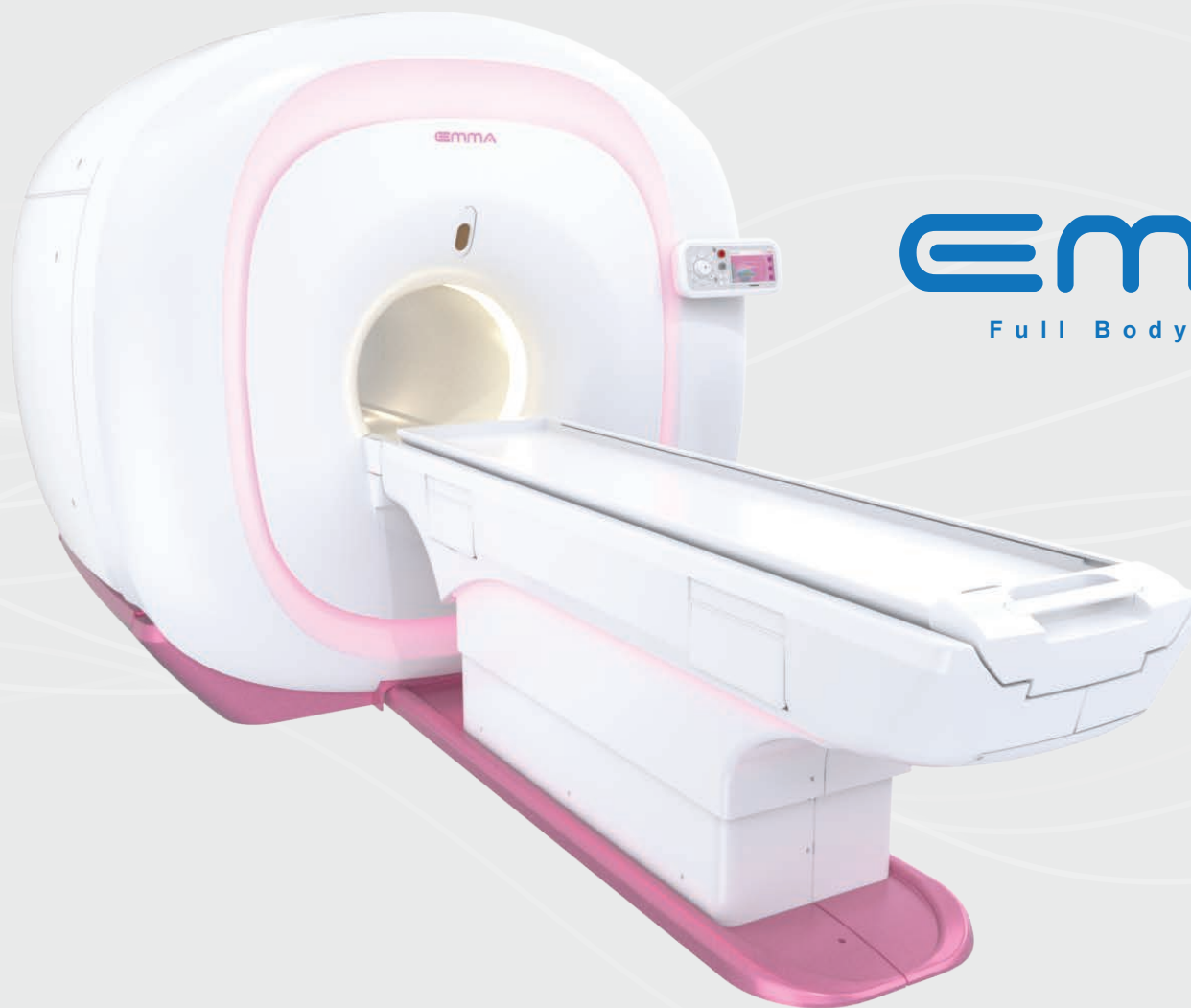
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Time Medical pursues global scientific, technological and clinical excellence to develop the world's most sensitive and accurate MRI systems for early detection of major illnesses. Time Medical focuses on developing the Next Generation MRI, which is poised to completely transform the MRI industry!

Time Medical aligned with World Health Organization (WHO) visions:

- A world in which everyone can live healthy, productive lives
- Putting people first
- Placing health at the centre of the global agenda
- Engaging countries and strengthening partnerships by deploying Time Medical innovation technology to develop AAA (Advanced, Accessible, Affordable) medical devices for the world's 55% population whom does not have access to general healthcare.

Time Medical will continue to break new ground with innovative technology, patents and market ready MRIs and related technology that will meet the 21st century needs of the global community.



# EMMA

Full Body MRI System

# TIME MEDICAL Systems



Jun-08

Time Medical Group was founded in Hong Kong Science Park



Sep-09

Grand opening of new MRI R&D and manufacturing facility in China Medical City, Taizhou, Jiangsu Province, China



Dec-09

Obtained FDA 510(k) clearance for MONA - Dedicated Orthopedic MRI System and HTS RF coils



Jul-10

Received the award of the "Medical Imaging Product Innovation of the Year" from Frost & Sullivan



Feb-19

Obtained FDA 510(k) clearance for EMMA - Full Body MRI System



Dec-17

First PICA installation completed in South Africa



Aug-11

Obtained FDA 510(K) clearance and CE certificate for PICA - Whole Body MRI System



Oct-11

The world-first PICA installed in Singapore



Jan-12

10 units of PICA installed in Indonesia



May-13

First PICA installed in San Diego, USA with ACR accreditation



Apr-16

Won the "Prix de L'Etata de Geneve" award, our NEONA - world's first neonatal MRI system



Nov-15

First PANION PRO Veterinary MRI System installed in Hong Kong



May-15

Veterinary MRI platform available



Sep-14

Grand opening of new DR manufacturing facility in Hefei, Auhui Province, China

# Features & Benefits



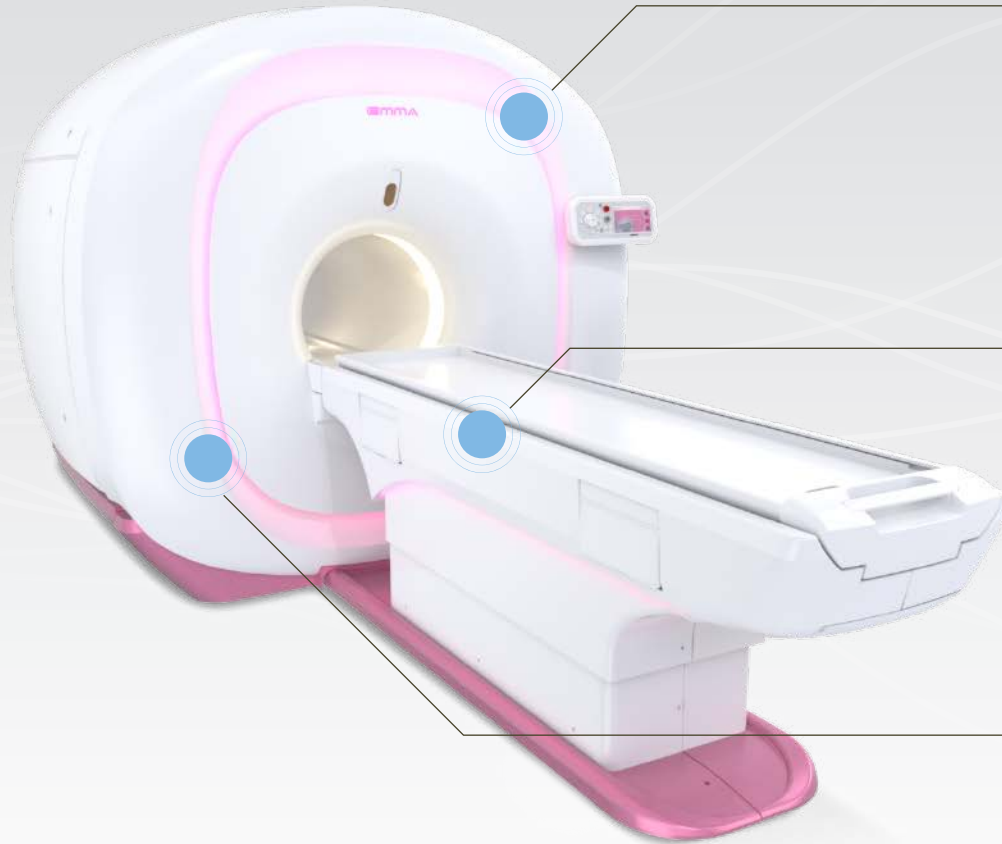
**Whole-body Scan**  
With our whole-body coils, EMMA capable for whole-body scan.

-Head	-Spine
-Shoulder	-Knee
-Abdomen	-Ankle
-Wrist	-Vascular



**Feet-first Patient Positioning**  
provides better patient comfort with less claustrophobia





**Zero Boil-Off Magnet**

Zero helium lost, without the need for a regular refill supply of liquid helium.



**Strong Gradient**

Gradient strength: 44mT/m  
Slew rate: 275T/m/s  
It helps our system to reach new heights in productivity, reliability and patient comfort.



**One-button Scan**

Time Medical one-button scan combines with Time Medical optimal protocol offers simple, user-friendly and efficient workflow.

# Product Specifications

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## Magnet System

- Type: Superconducting, Zero Boil-off
- Shimming: Active and Passive
- 2nd Order Shimming
- Field Strength: 1.5 Tesla
- Patient Bore: 600 mm
- Field Stability: < 0.1 ppm/hr
- Magnet Weight: 3.0 tons

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## Gradient System

- Amplitude: 44 mT/m
- Slew Rate: 275 T/m/s

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## RF System

- RF Power: 18 kW peak (with SAR limiting)
- Image BW: 1 kHz – 500 kHz
- 8-Channel (Standard) / 16-Channel (Optional)

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\* Optional

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## RF Receiver Coils

- 16-Channel Head-Neck
- 8-Channel Head
- 16-Channel Body
- 11-Channel Shoulder
- 8-Channel Close Breast
- 15-Channel Knee
- 16-Channel Ankle
- 8-Channel Wrist
- 16-Channel Multipurpose

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## Image Visualization

Visualization with auto Window/Level, pan, zoom, rotate, flip, multiple image display, ROI, annotation, measurements, cross series marker, color mapping, image analysis, real-time MIP, CINE, multiple viewport.

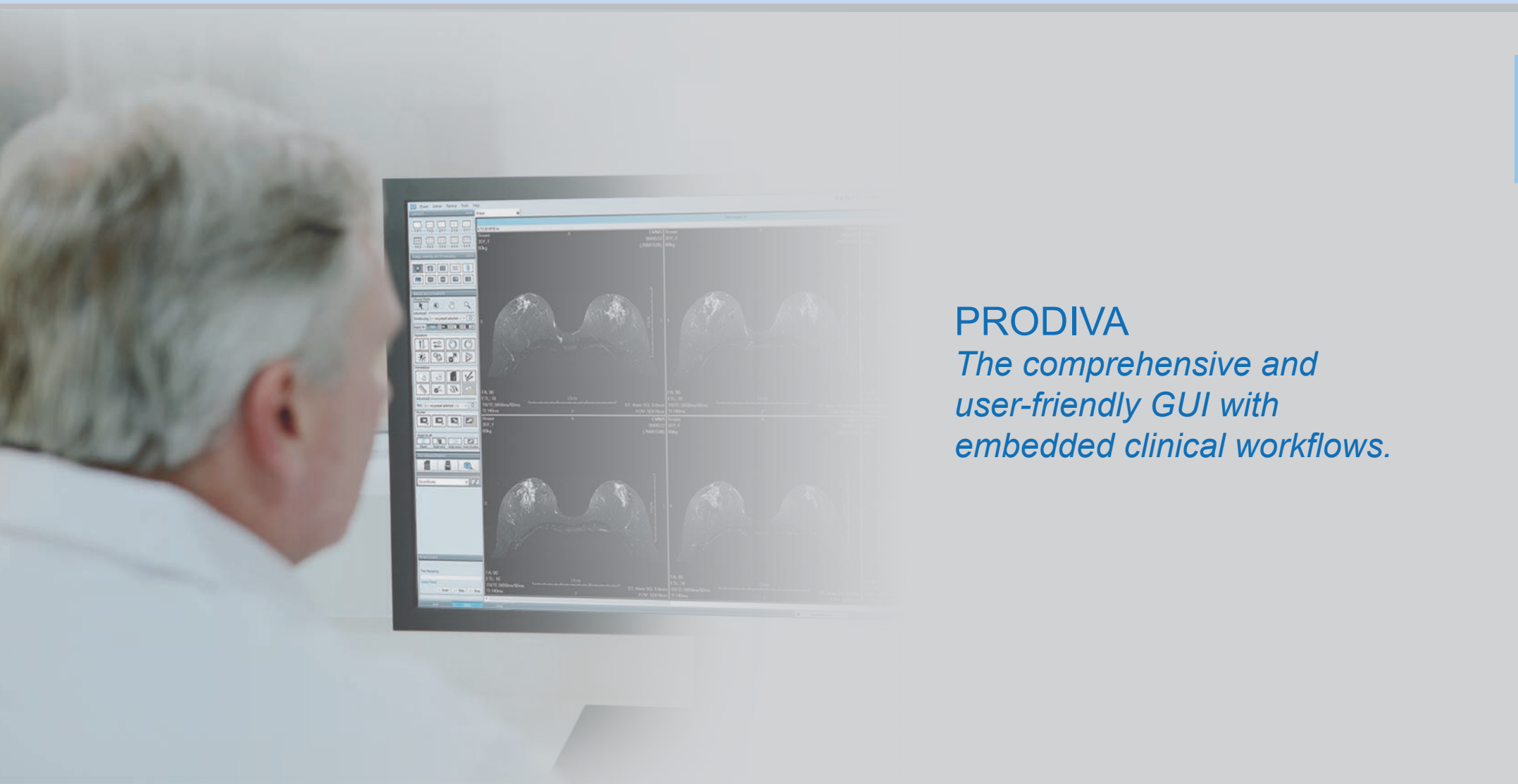
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## Optional Accessory

- ECG, Peripheral, Respiratory Gating
- High Performance XTREME Reconstruction Unit
- MR Suite Oxygen Level Monitoring System
- High Availability Storage (HAS) System
- Whole Body Matrix (WBM)

Specification	Magnet Room	Control Room	Equipment Room
Recommended room size (inside dimensions) *	7.5 x 4.5 m	3 x 4 m	4.5 x 3 m
Minimum ceiling height	3.5 m	no requirement	3 m
Floor requirements	antistatic, level	antistatic	antistatic
Total Floor Loading	15 kPa	-	-
Floor Leveling	5 mm / 3 m	-	-
RF shielding	90 dB attenuation over 10 – 100 MHz	not required	not required
Magnetic field shielding	depends on site	not required	not required
Power outlets	3 x 110 Vac or 220 Vac	at least 6 x 110 Vac or 220 Vac	3 x 110 Vac or 220 Vac 380 Vac 3-phase, neutral $\pm$ 10%
Air conditioning	10 kW	3 kW	5 kW
Humidity	40%-70% without condensation	40%-70% without condensation	40%-70% without condensation
Network outlets	No requirement	1 (directly connected to Equipment Room)	1 (directly connected to Control Room)

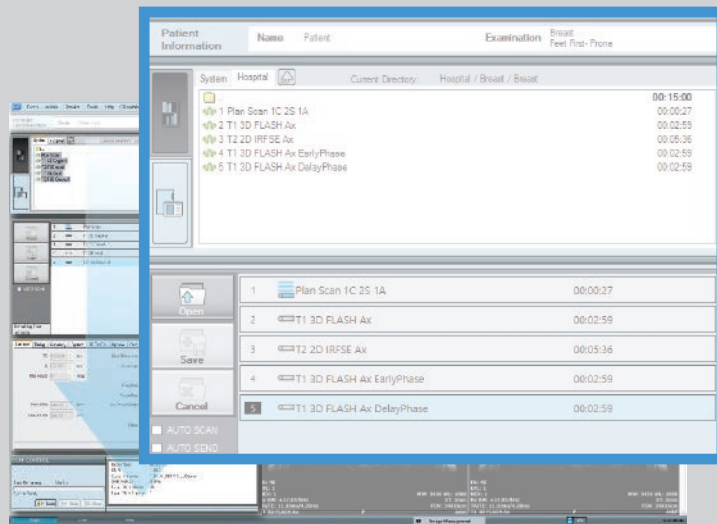
# Graphical User Interface



**PRODIVA**  
*The comprehensive and user-friendly GUI with embedded clinical workflows.*



## Efficient workflow from start to finish

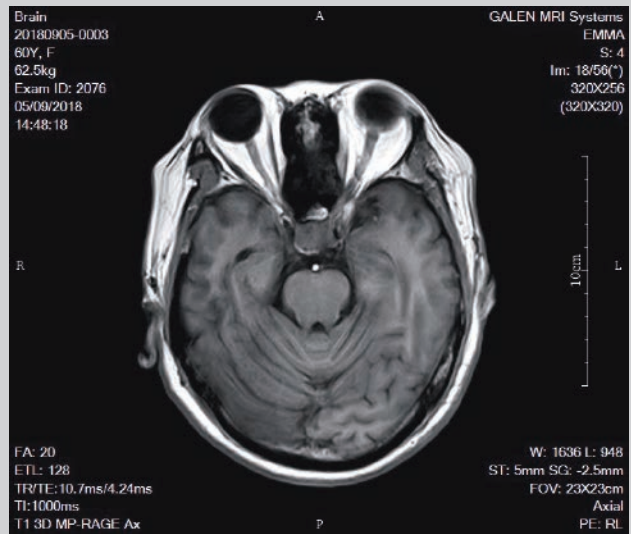


Built-in optimized scan protocols with simple drag-and-drop workflow to initiate scanning.

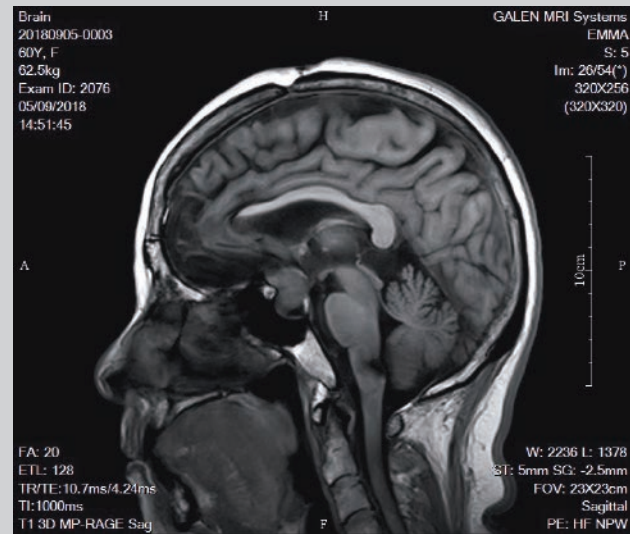


PRODIVA Cloud teleradiology platform allows image access for reporting anywhere, anytime.

# Image Gallery



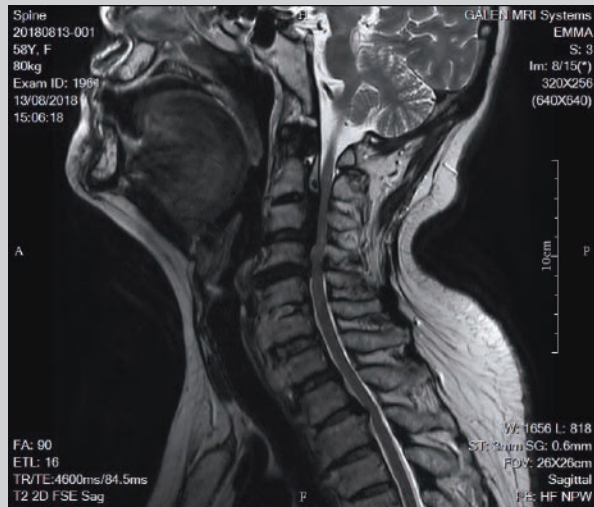
Pituitary T1 MP-RAGE Axial



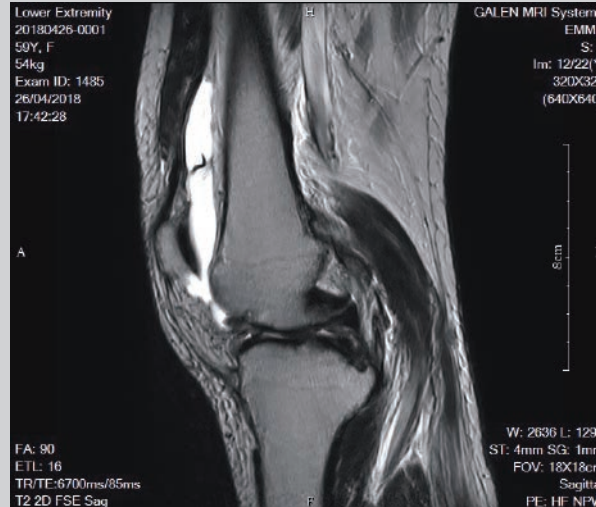
Pituitary T1 MP-RAGE Sagittal



Whole Spine T1 2D SE Coronal



C-spine T2 2D FSE Sagittal

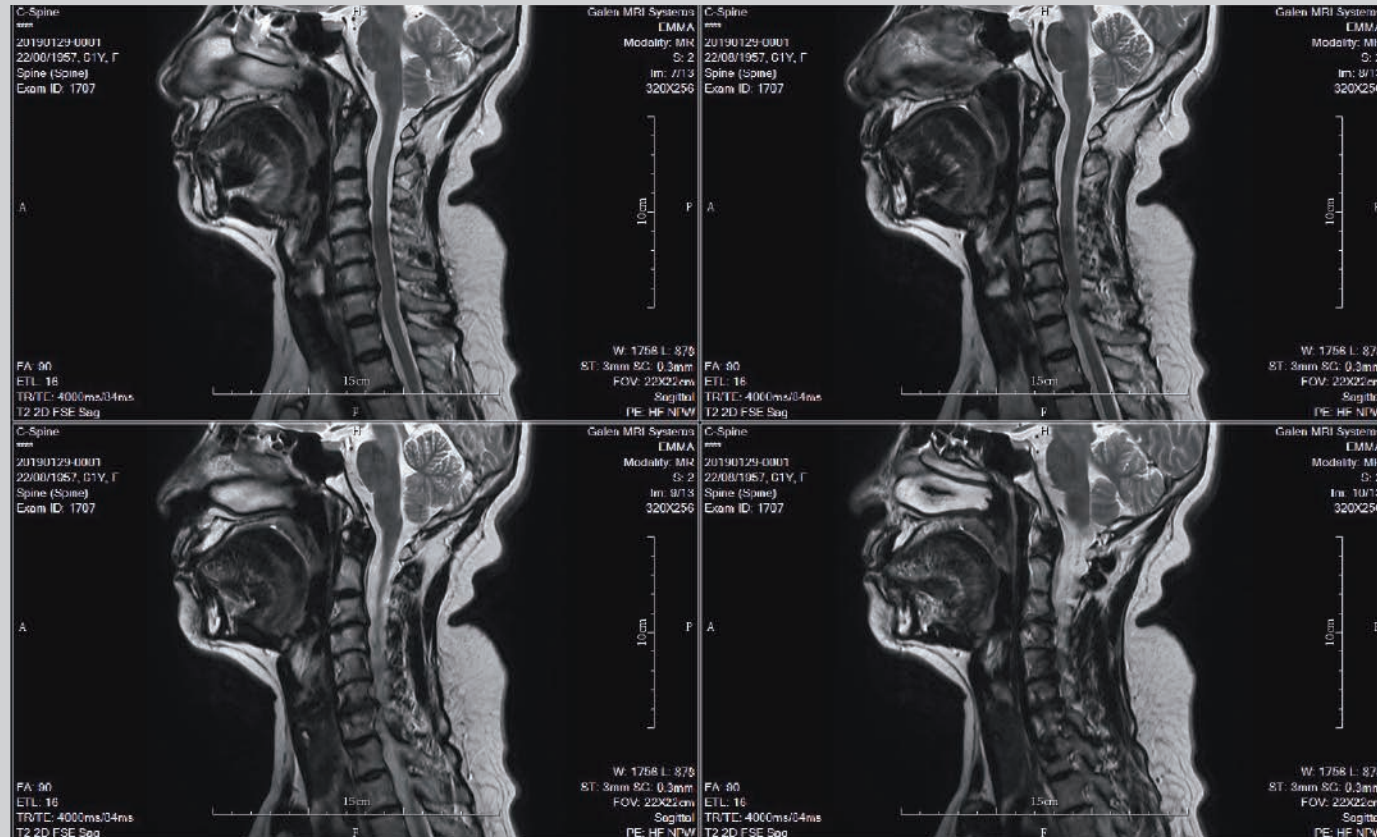


Knee T2 2D FSE Sagittal



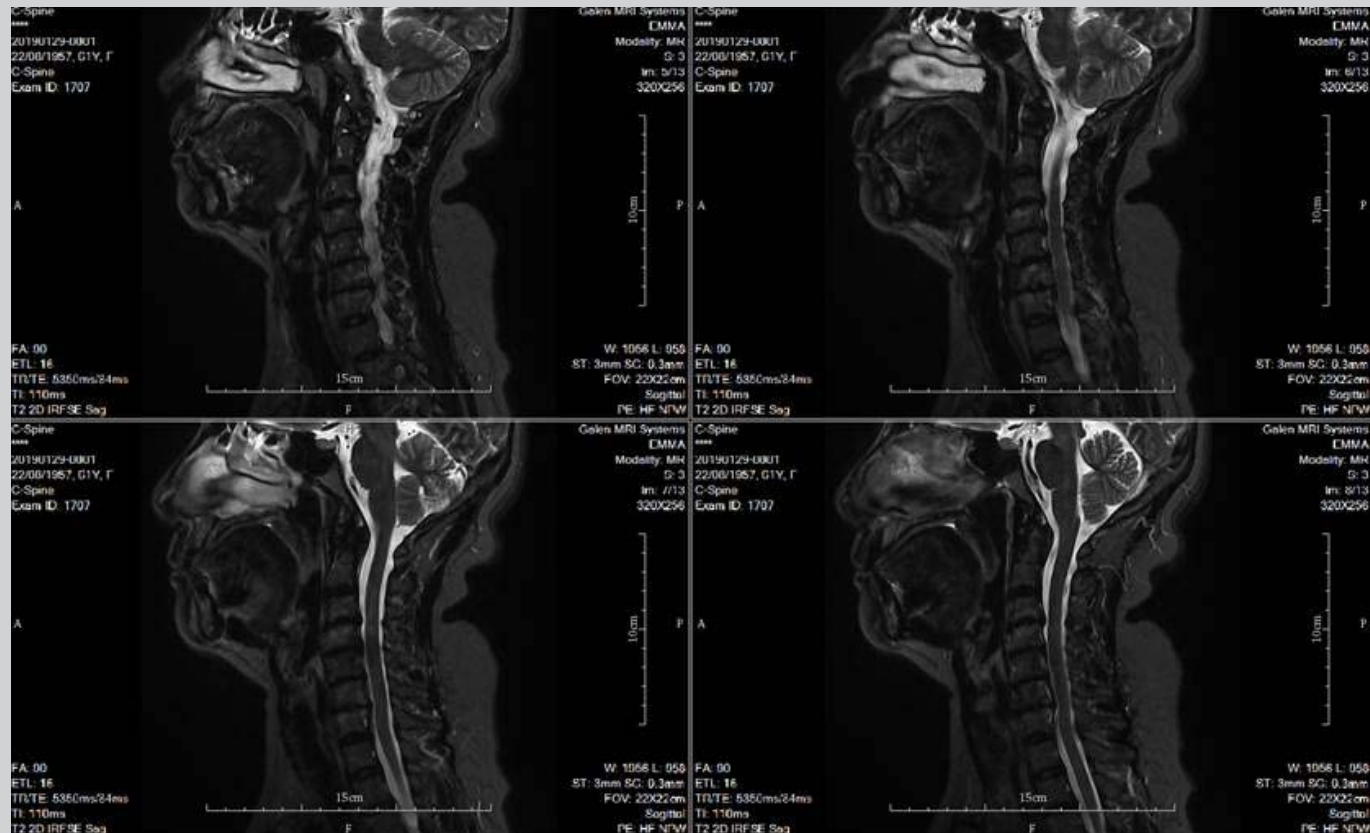
Wrist T2 2D FSE Coronal

# Image Gallery



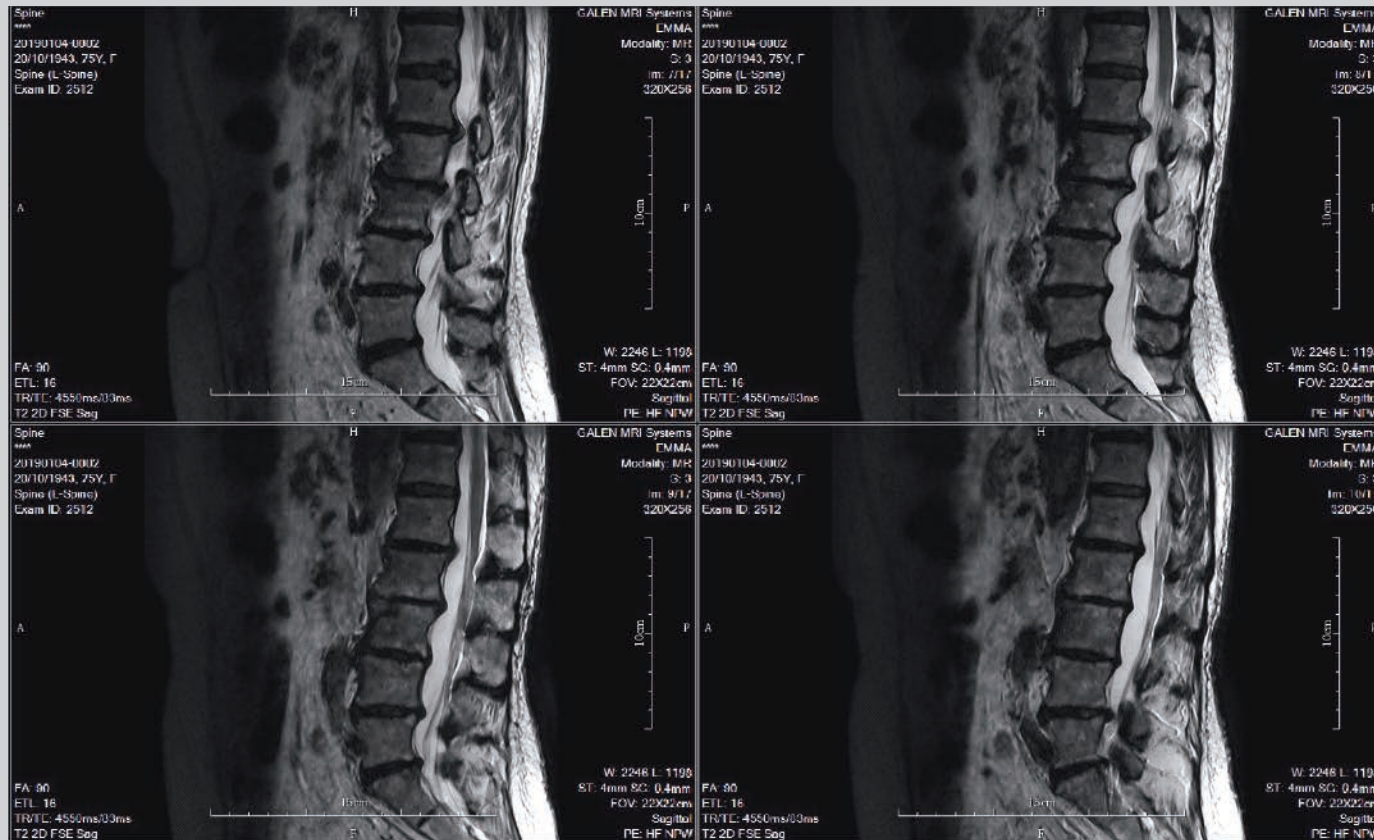
C-Spine T2 2D FSE Sagittal



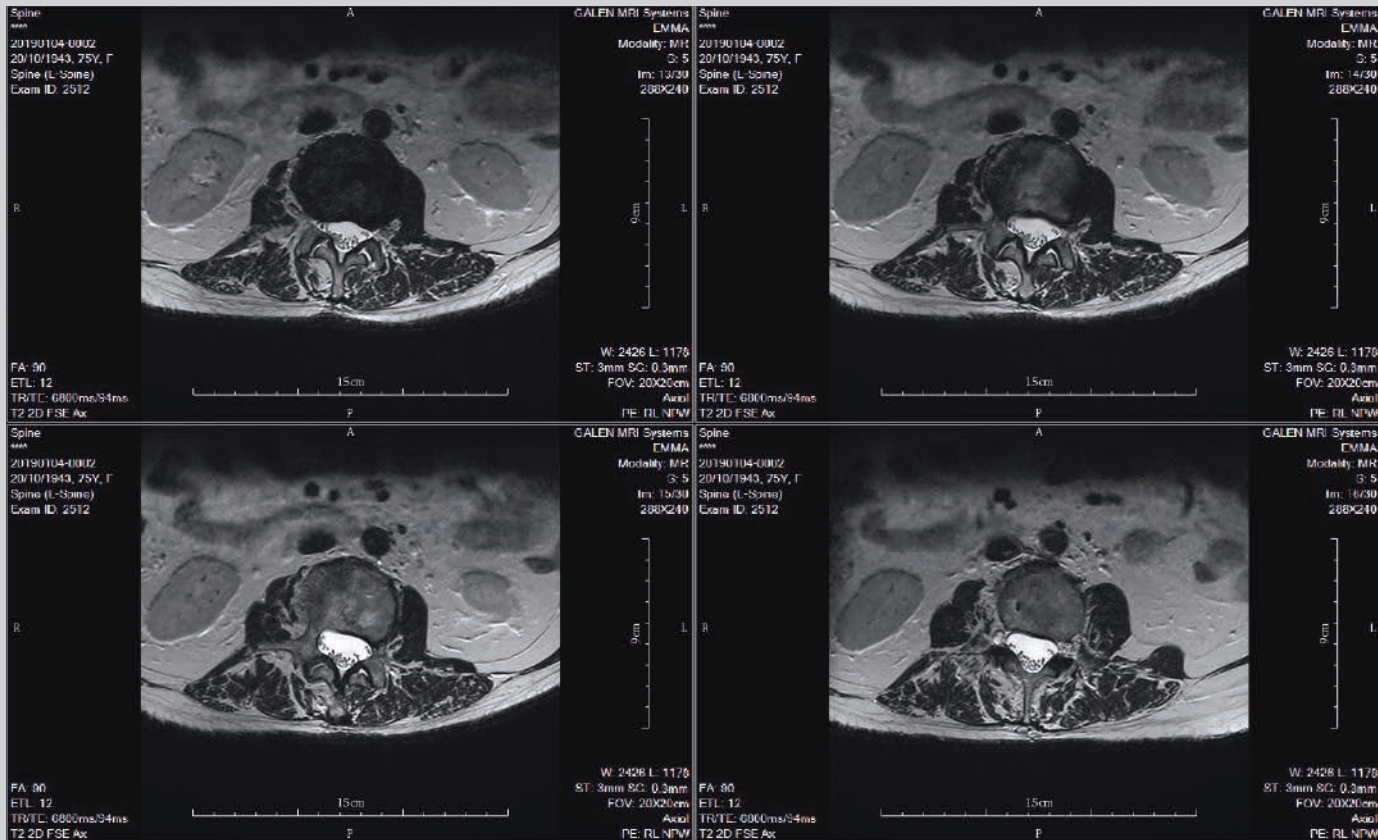


C-Spine T2 2D IRFSE Sagittal

# Image Gallery

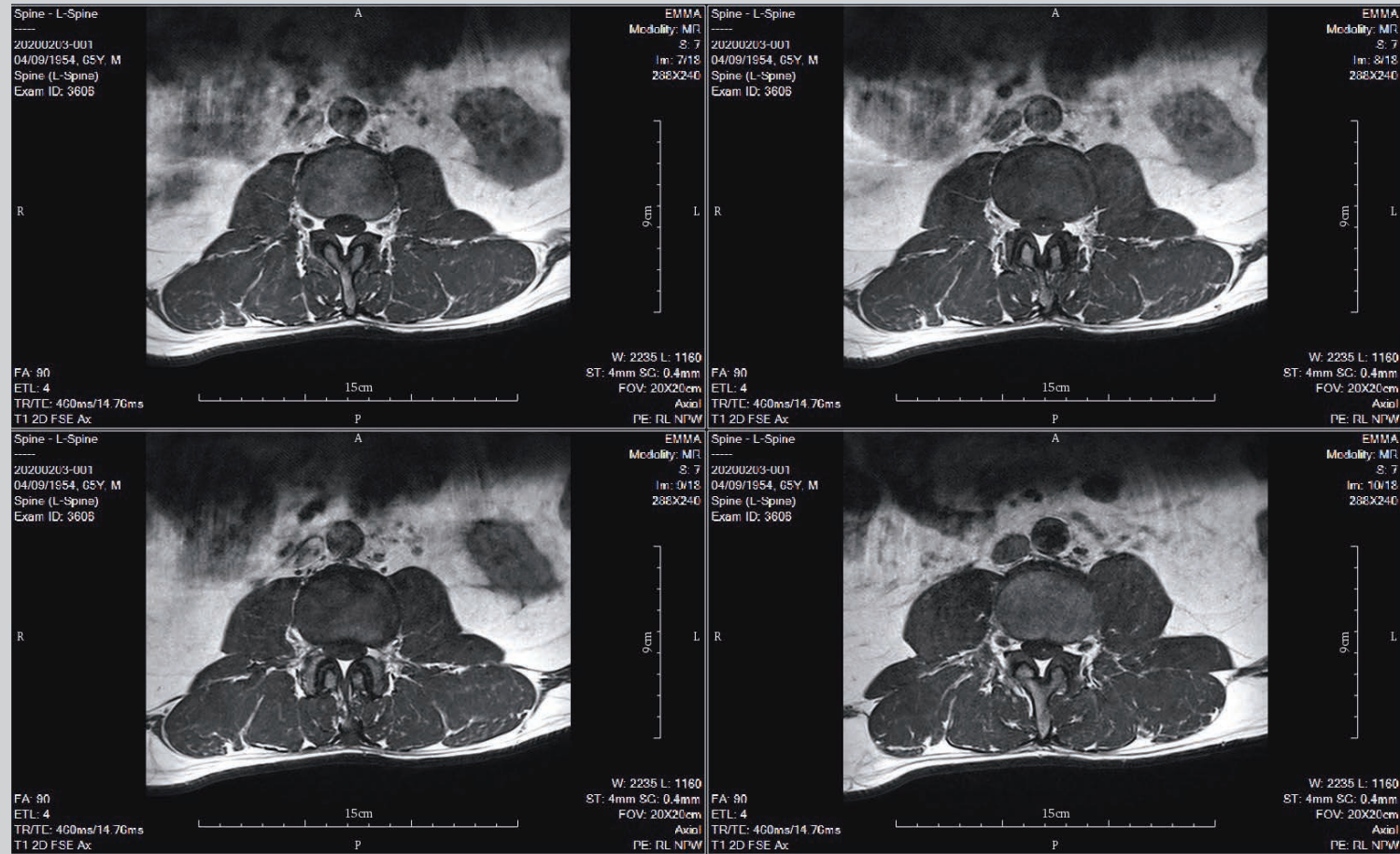


L-Spine T2 2D FSE Sagittal

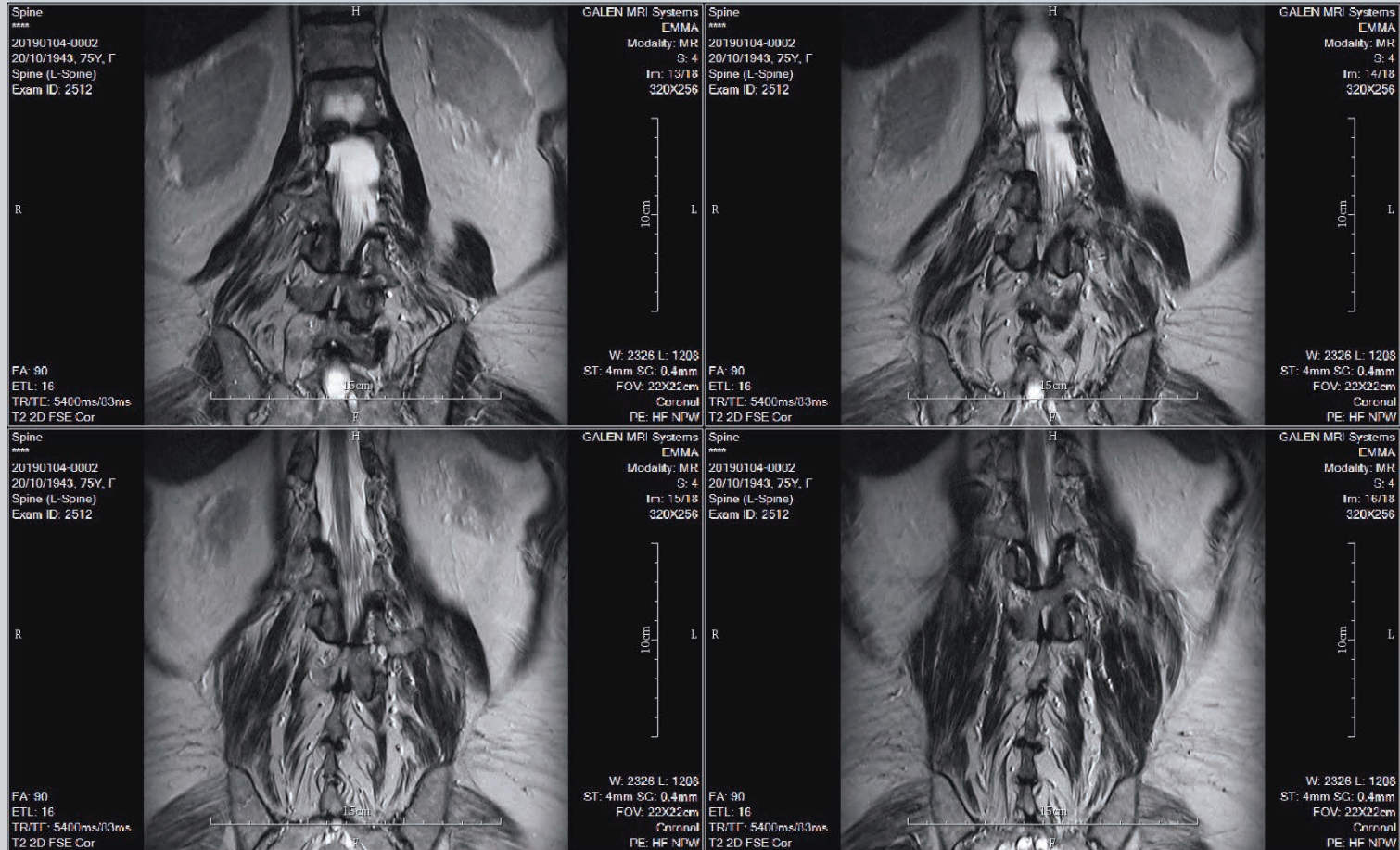


L-Spine T2 2D FSE Axial

# Image Gallery

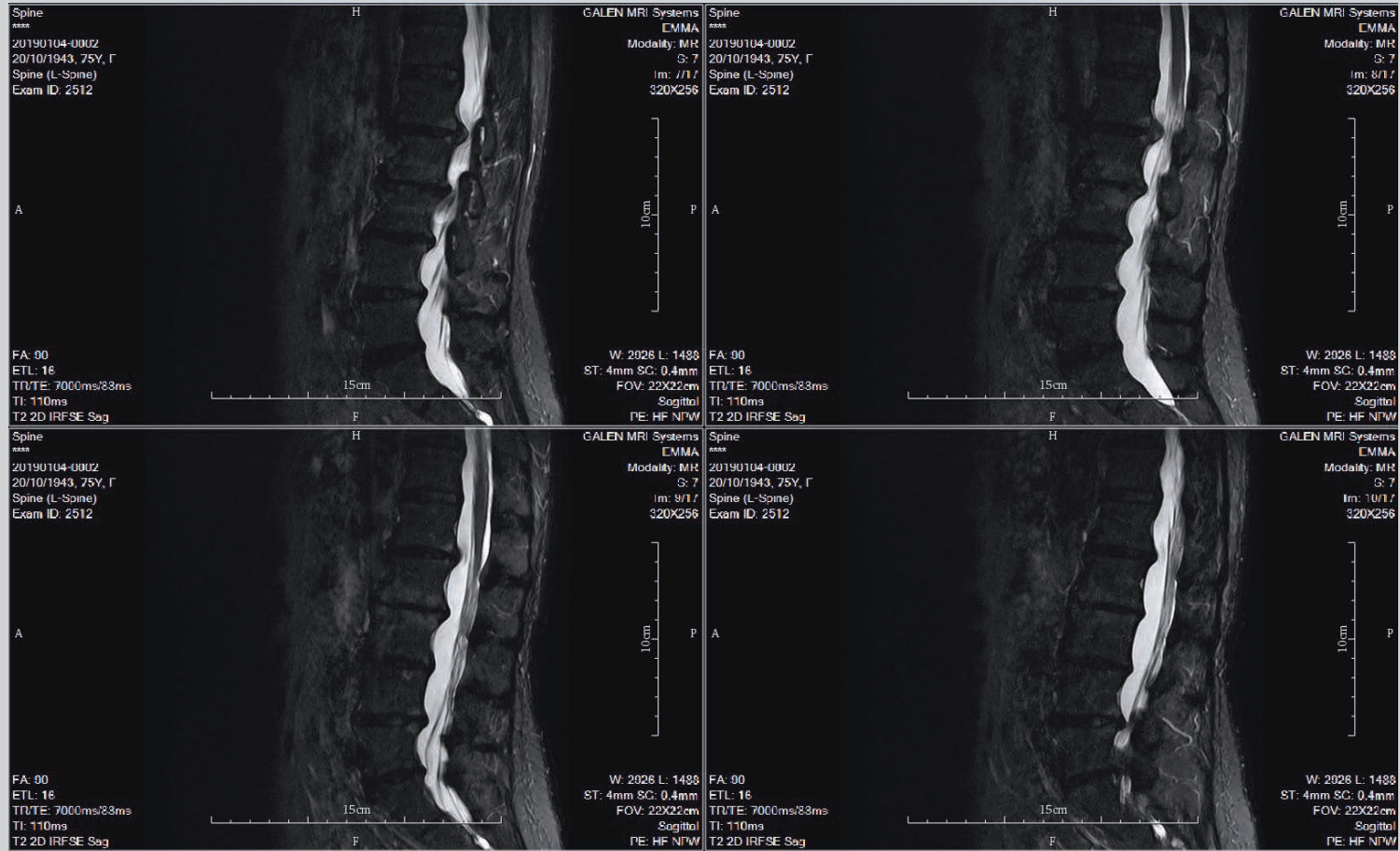


L-Spine T2 2D FSE Sagittal

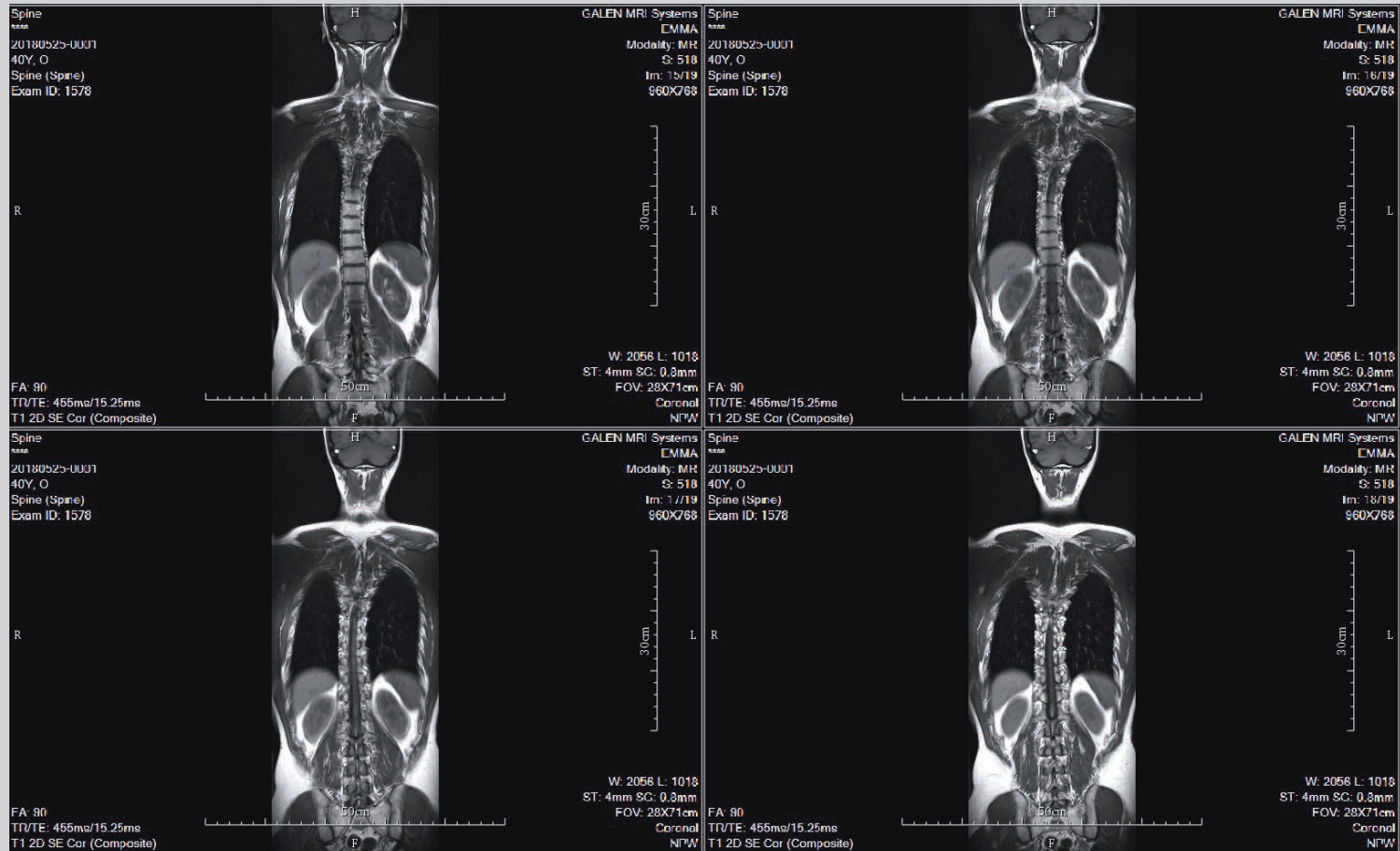


L-Spine T2 2D FSE Coronal

# Image Gallery

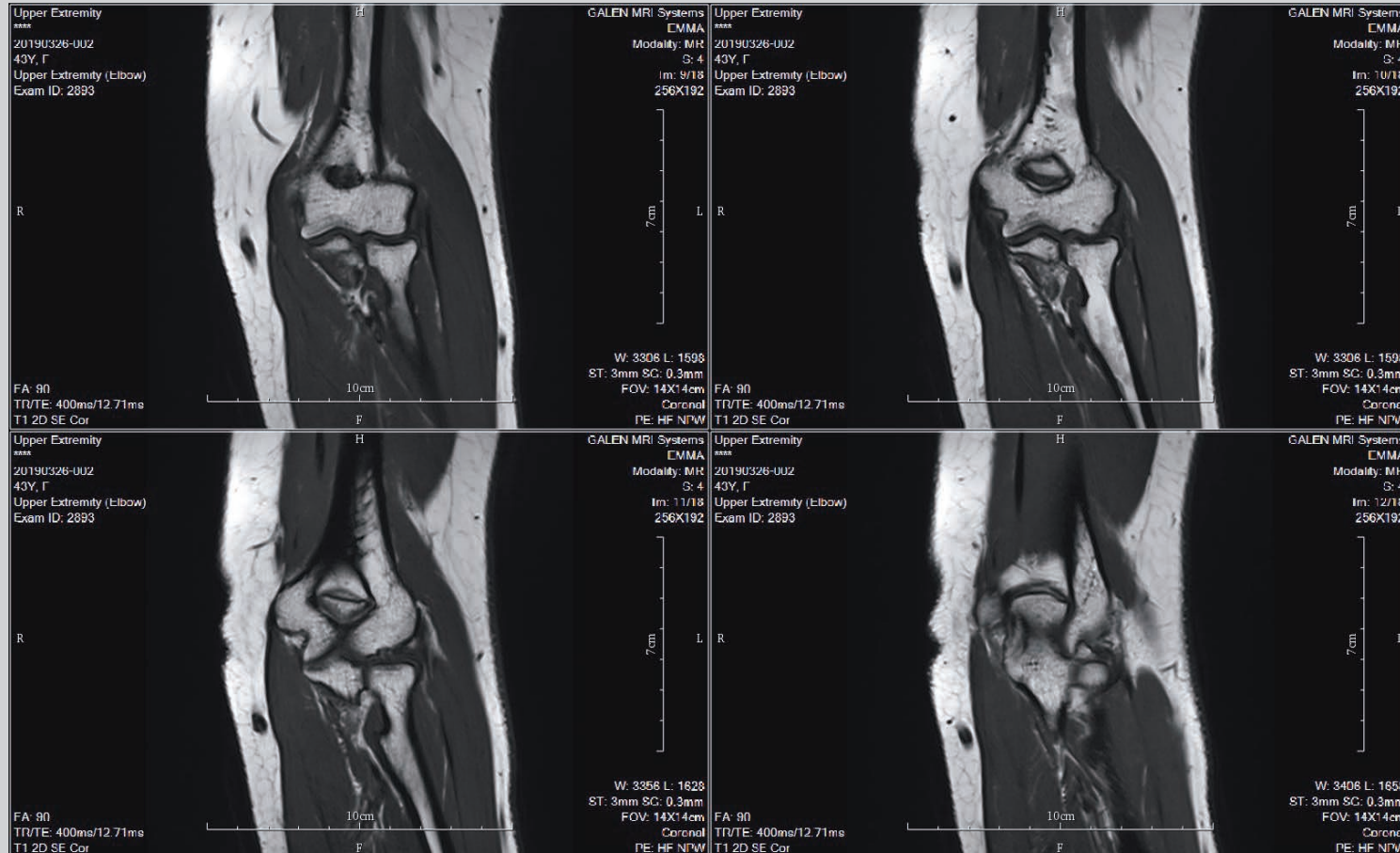


L-Spine T2 2D IRFSE Sagittal



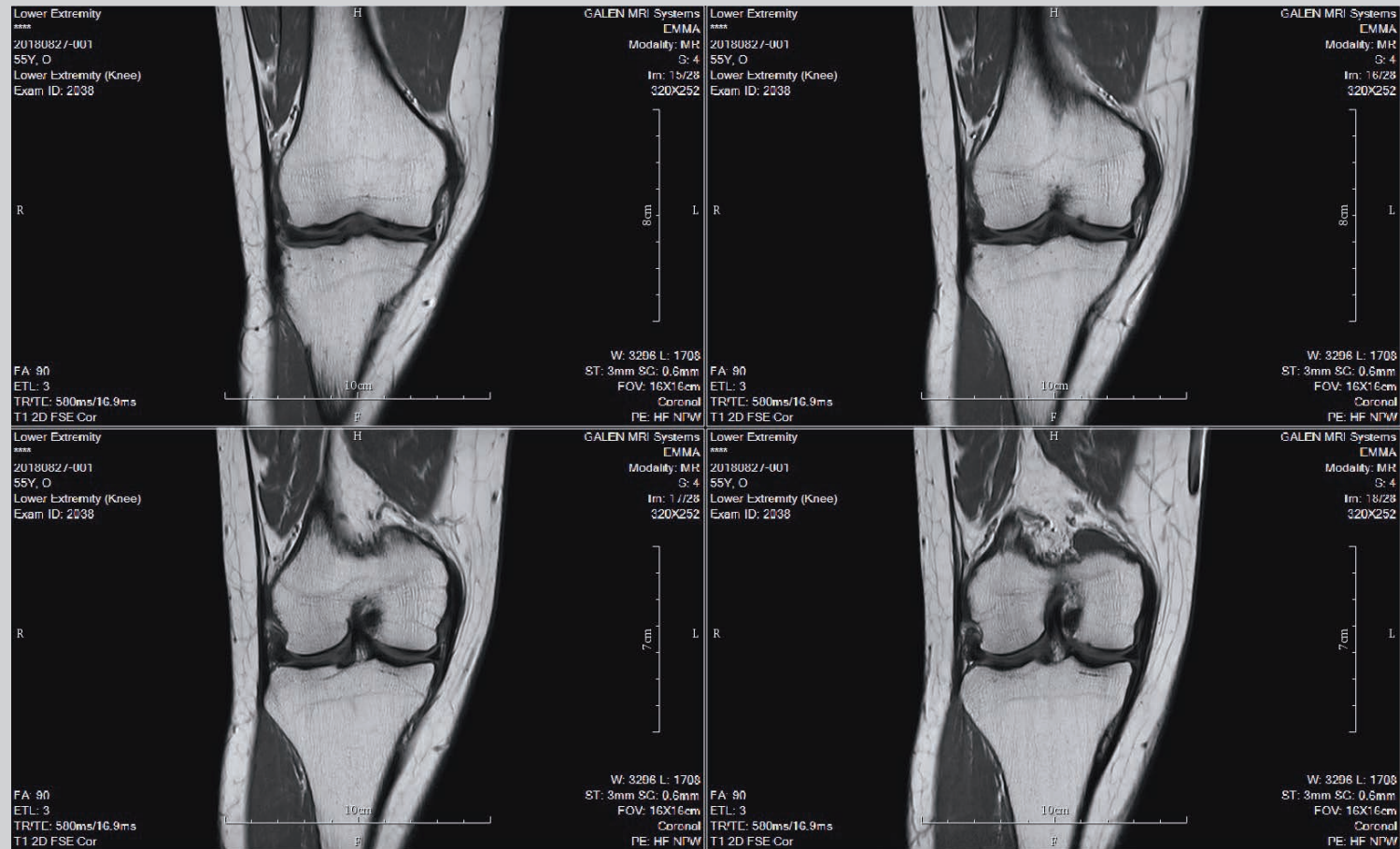
Whole Spine T1 2D FSE Coronal

# Image Gallery



Elbow T1 2D SE Coronal





Knee T1 2D FSE Coronal

# TIME MEDICAL SYSTEMS

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For more images and information, please visit [www.time-medical.com](http://www.time-medical.com) or  
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