



Insight
Into life.
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MRI Series Presentation

OPENMARK 5000

International sales & Marketing

Highest level permanent MRI

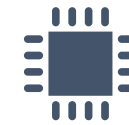


OPENMARK 5000

Dual-pillar permanent MRI system



Highest 0.51T magnet



Advanced platform, close to superconducting MRI




Comprehensive clinical application




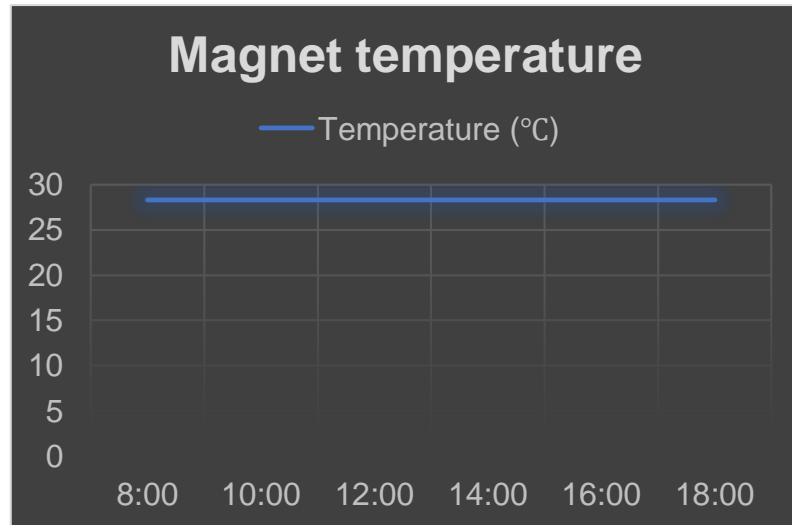
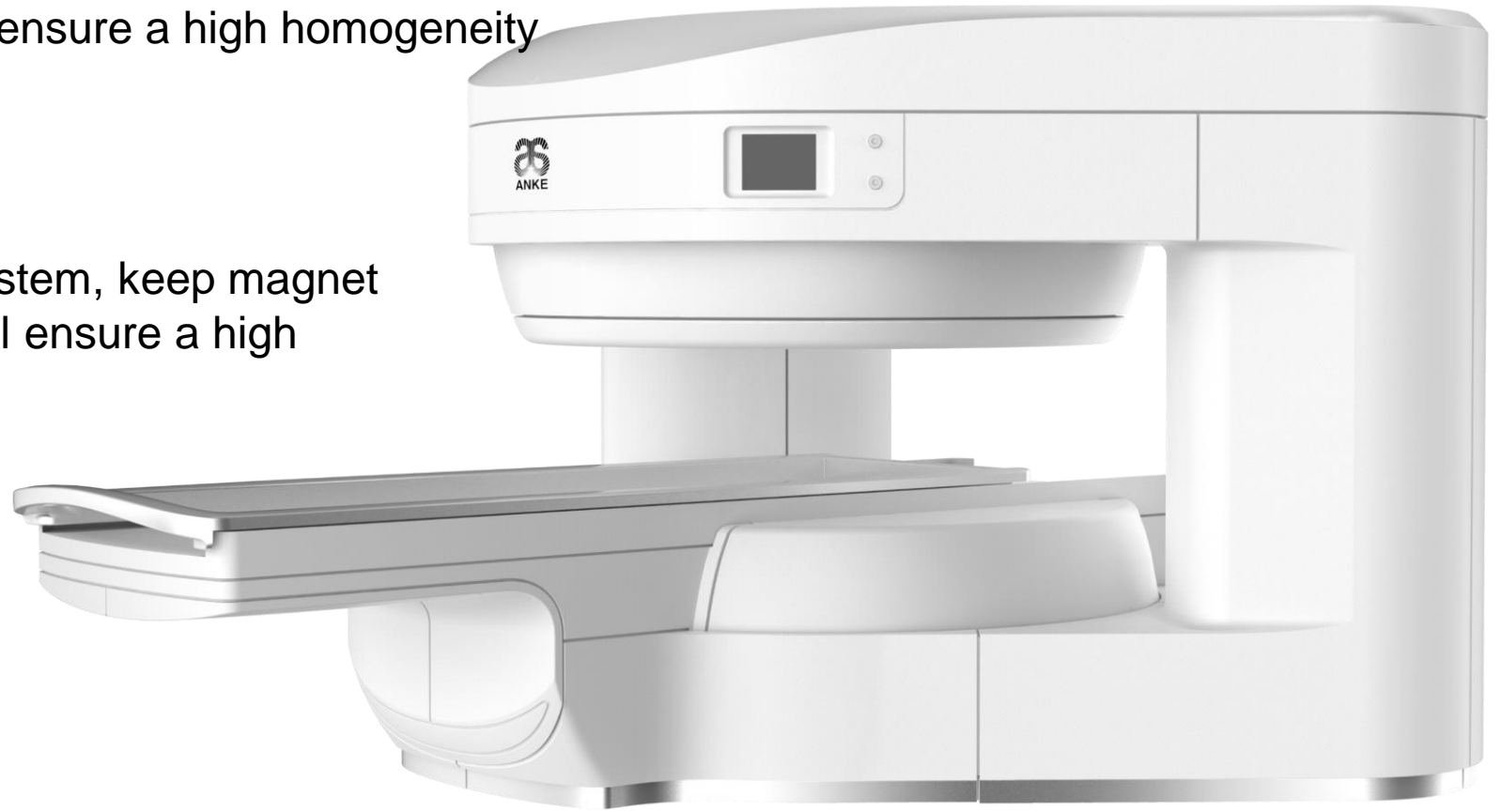
Perfect magnet



 Unique **A-shimming** technology, ensure a high homogeneity of magnetic field.

1.6ppm @40cm DSV, VRMS

 **Intelligent** temperature control system, keep magnet in constant temperature, which will ensure a high stability of magnetic field.



Large openness structure, Increase the application range of patients.



Perfect magnet



Highest magnetic field of permanent magnet, up to 0.51T

OPENMARK 5000



0.2T

0.3T

0.35T

0.36T

0.38T

0.4T

0.5T

0.51T

1.5 T

3.0 T

7.0 T

Permanent magnet

Superconducting magnet



Advanced gradient system



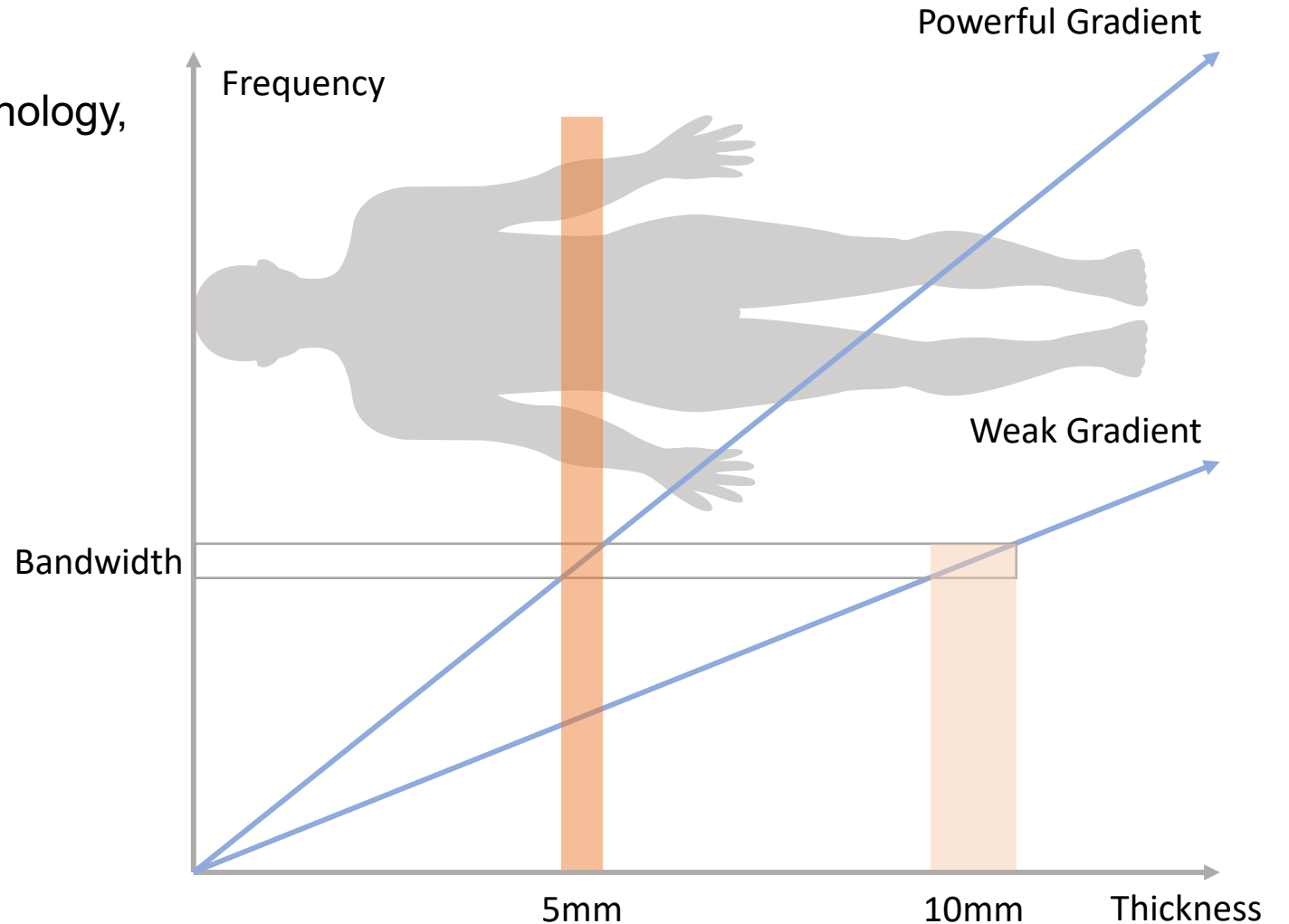
RF & Gradient integration Coils

Combined with Self-shielding & Eddy-'0' technology, ensure a high image quality.

High level linearity & Powerful output

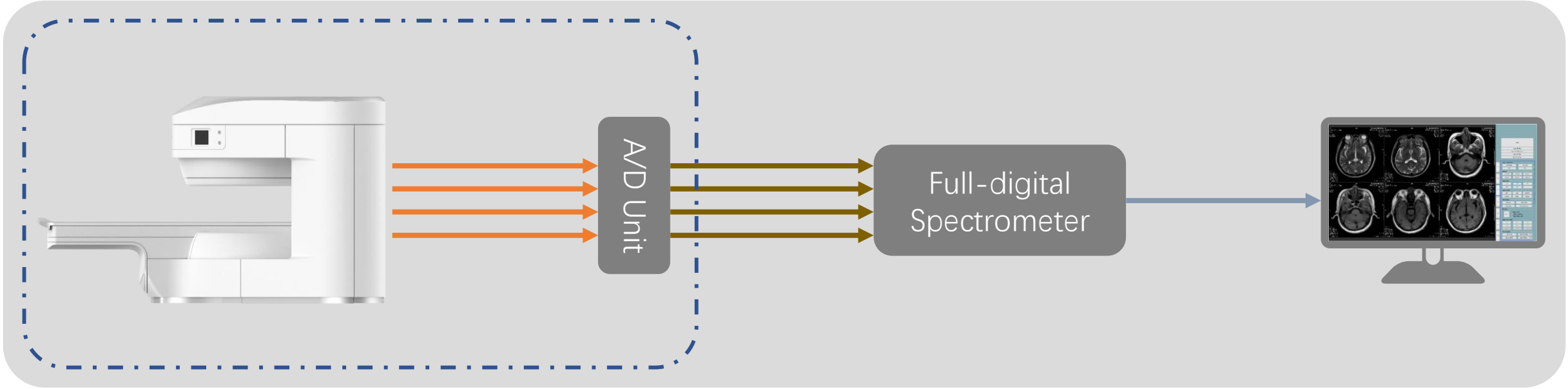
Max amplitude = 30mT/m
Max slew rate = 100T/m/s

Thin slice images, Fast scan speed





Digital 4-channels RF system



- 4 channels PA receiving coils
- 4 channels A/D Unit
- 4 channels full-digital spectrometer
- Powerful RF output 6KW



Greatly improve SNR of images



Outstanding PA receiving coils



PA Head coil



4 channels

- ◆ Head examination
- ◆ MR Head Angiography
- ◆ TMJ (temporomandibular joint) imaging

PA Neck coil



2 channels

- ◆ Neck examination
- ◆ Cervical spine examination
- ◆ MR Neck Angiography

PA Body coil



4 channels, 3 size*

- ◆ Thoracic region examination
- ◆ Thoracic & Lumbar spine examination
- ◆ Abdomen examination
- ◆ Pelvis & Hip examination

PA Knee coil



2 channels

- ◆ High resolution knee imaging
- ◆ Lower limb joints examination

Marked with '*' means it's not a standard offer.



Outstanding PA receiving coils



PA Shoulder coil



2 channels

- ◆ High resolution shoulder imaging

PA Ankle coil*



2 channels

- ◆ High resolution ankle imaging
- ◆ High resolution foot imaging

PA Wrist coil*



2 channels

- ◆ ● High resolution hand imaging
- ◆ ● High resolution wrist imaging

PA Breast coil*



4 channels

- ◆ High resolution breast imaging

Marked with '*' means it's not a standard offer.



Humanization design

Advocating the combination of technology and humanities, provide a comfortable operation experience to you.



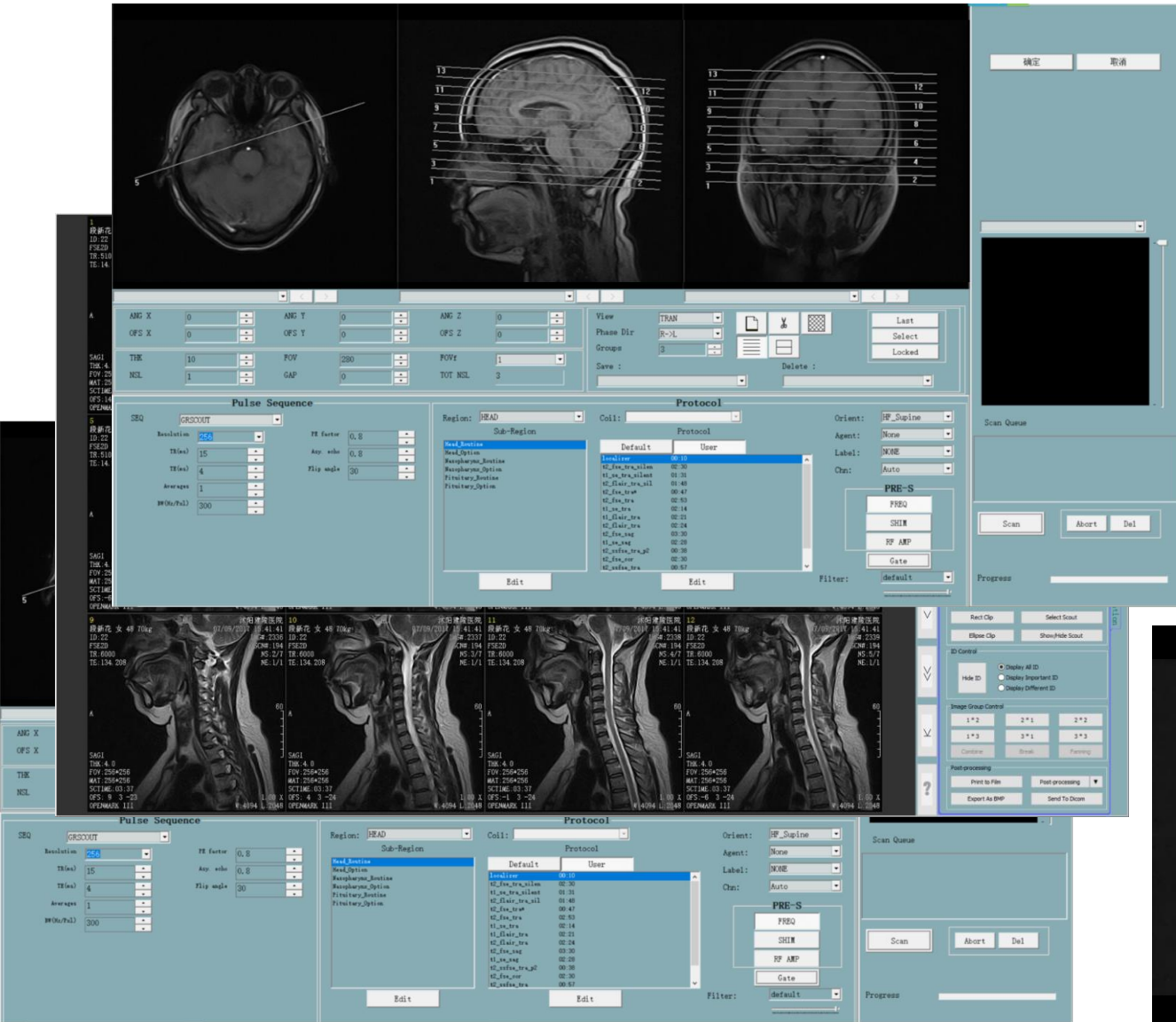
Touched LCD screen




Integrated electric patient table





Professional APEX operation platform



◆ DIS (Data integrity & security) system

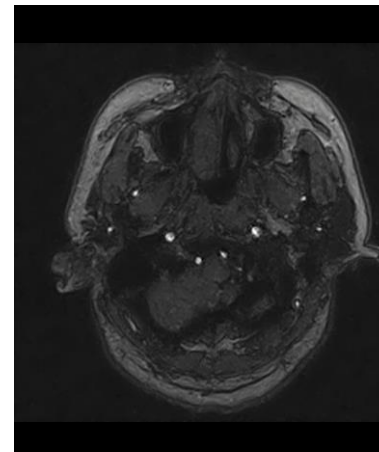
 Double independent system & data partitions, easy to switch.

 Remote control and maintenance, ensure the system running stable.

 Protect patient and system data, save your time and maintenance cost.



Fast Reconstruction Speed
3300 Fps





Clinical application (Permanent MRI VS Superconducting MRI)

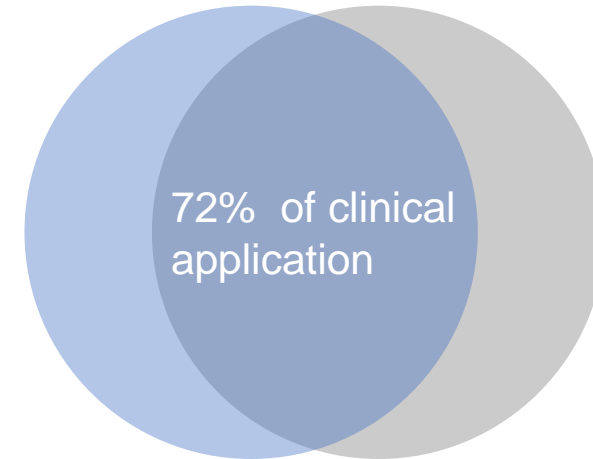


Image quality:

Application	Image quality	
	Permanent (0.51T)	Superconducting (1.5T)
Head	Good (9)	Good (10)
Spine	Good (9)	Good (10)
Bone & joint	Good (9)	Good (10)
Chest	Good (8)	Good (10)
Breast	Good (8)	Good (10)
Abdomen	Good (8)	Good (10)
Pelvic	Good (8)	Good (10)
Blood Vessel	Good (8)	Good (10)
Diffusion	Good (7)	Good (9)
Perfusion, Cardiac, DTI, Spectroscopy	No (0)	Good (8)

Permanent MRI 28%

- Claustrophobic patients
- Obese patients
- A few metal implants
- MR guided interventional treatment, surgery
- Joint movement imaging



Superconducting MRI 28%

- Small lesion
- Functional Imaging
- MR spectroscopy



Clinical application



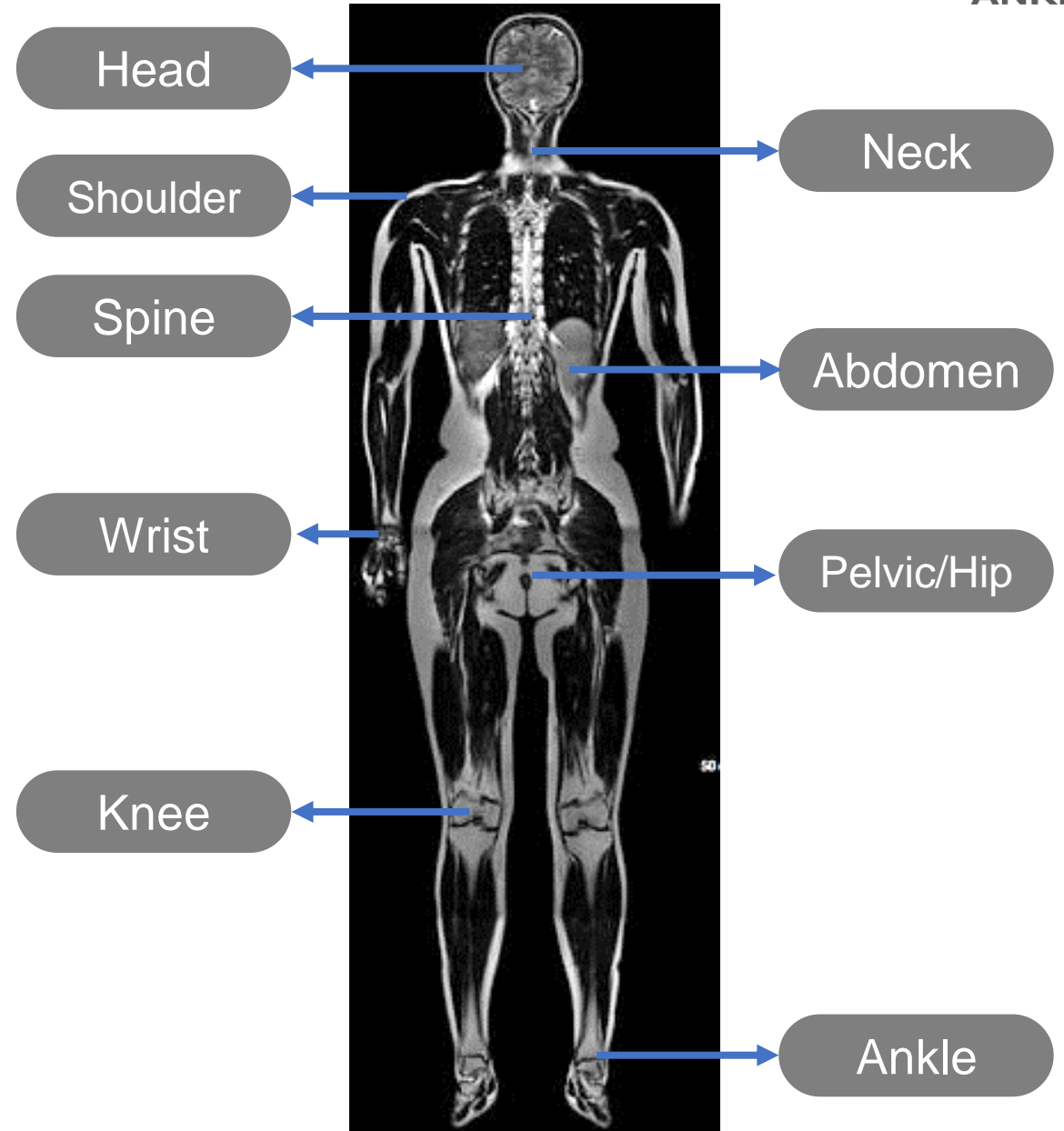
Comprehensive clinical application, Cover the whole body

Thin slices imaging, close to superconducting MRI

Routine scanning:

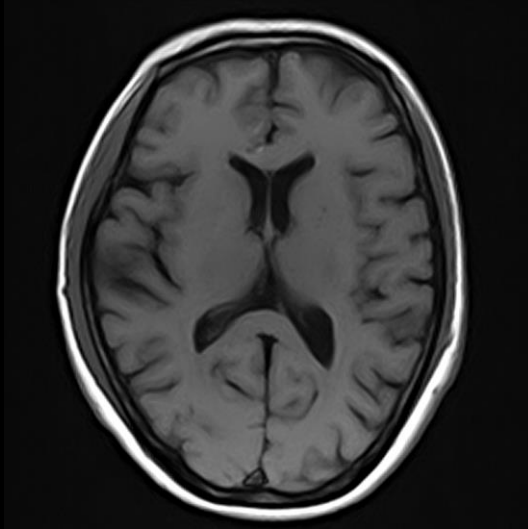
- Head: 4.0mm - 6.0mm
- Neck: 3.0mm - 4.0mm
- Spine: 3.0mm – 4.0mm
- Abdomen & Pelvic: 5.0-7.0mm
- Limbs: 3.0mm-4.0mm

3D scanning: 1.0mm – 2.0mm

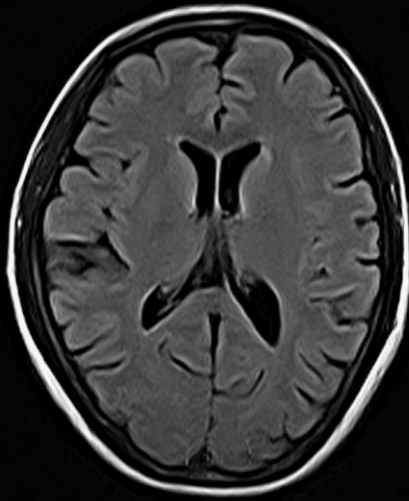




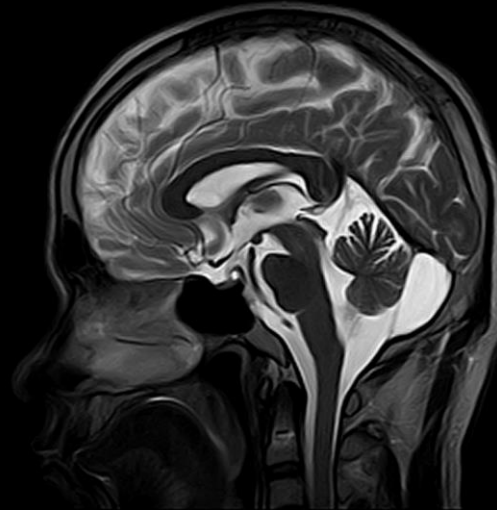
Clinical application-Head



Brain T1WI



Brain T2_FLAIR



Brain T2WI

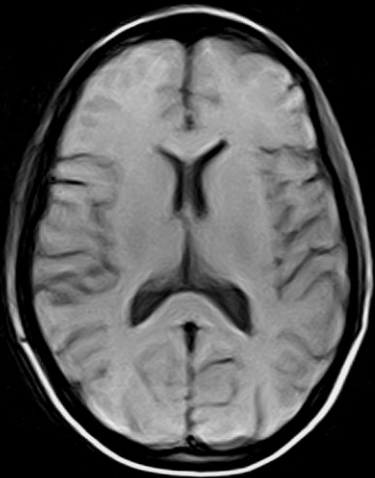


High resolution head images

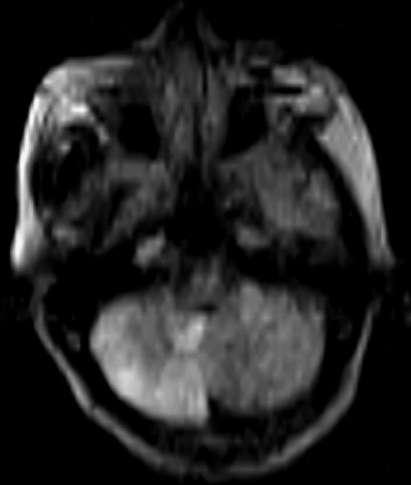


Comprehensive protocol

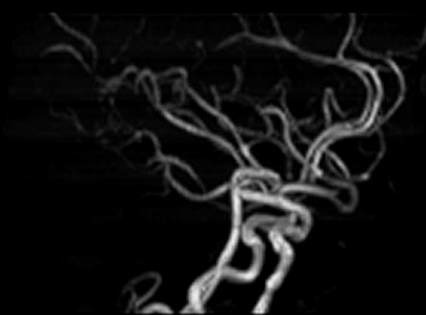
- T1WI, T2WI, T1 & T2 FLAIR, DWI
- 3D T1WI, T2WI for Inner ear & pituitary
- MR angiography
- DIXON*



Brain DIXON*



Brain DWI_b1000



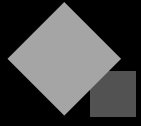
MRA-TOF3D



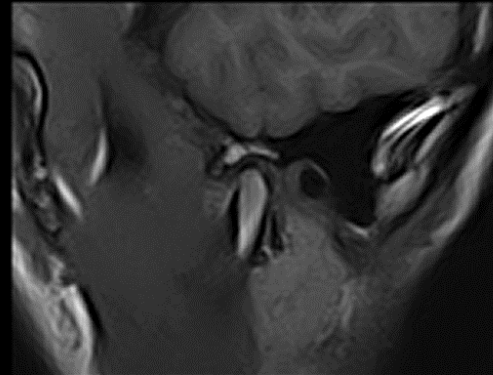
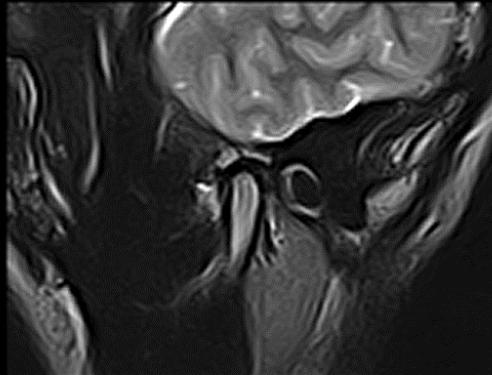
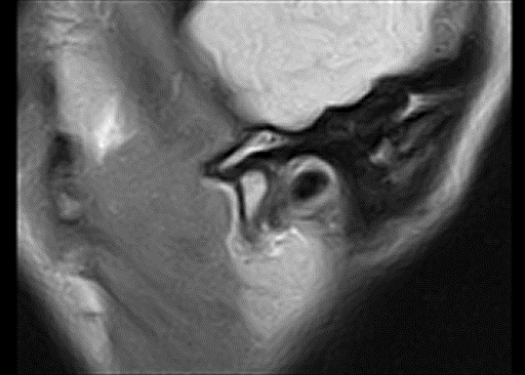
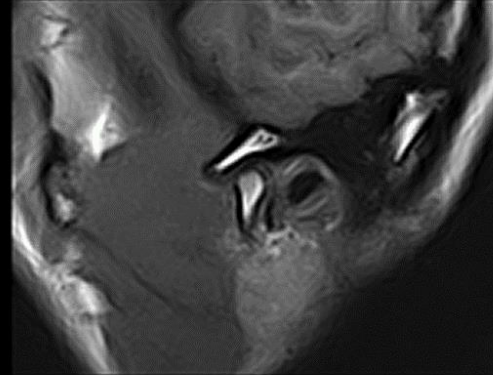
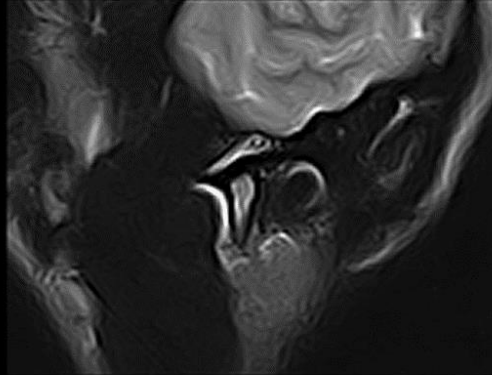
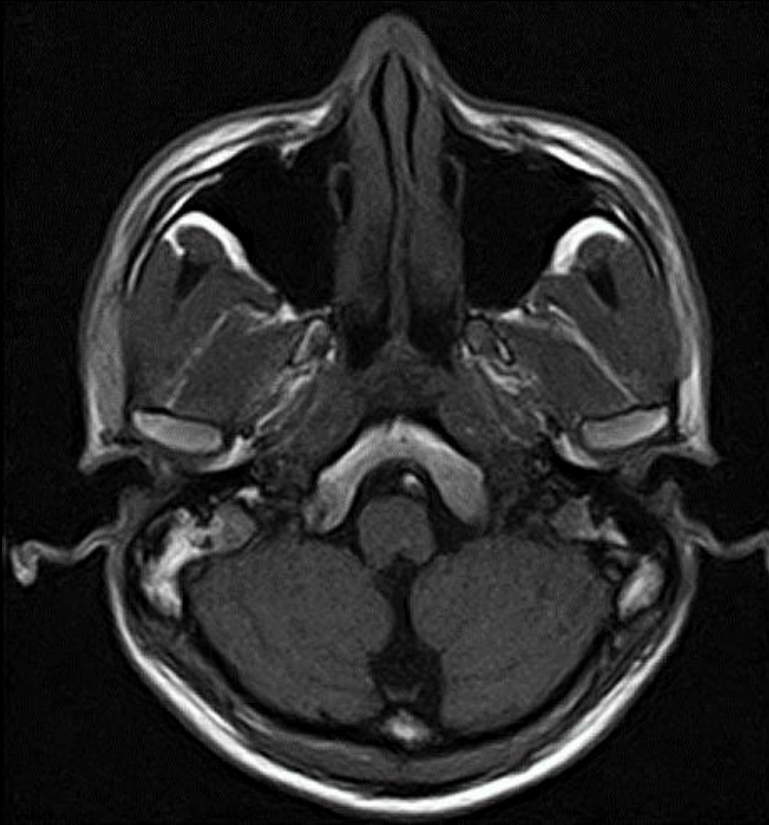
Fast scan speed

- Routine scanning finish in 15-18 minutes

Marked with '*' means it's not a standard offer.



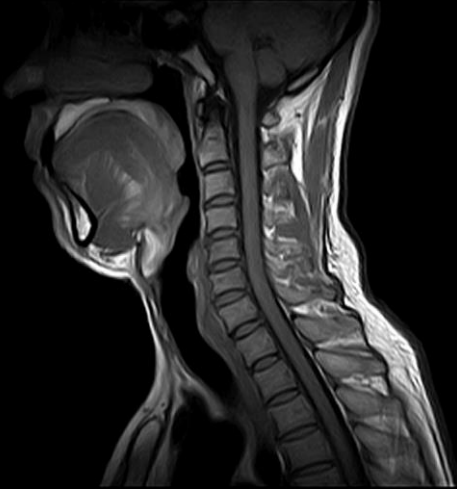
Clinical application-Head



High resolution TMJ imaging, 2mm thickness



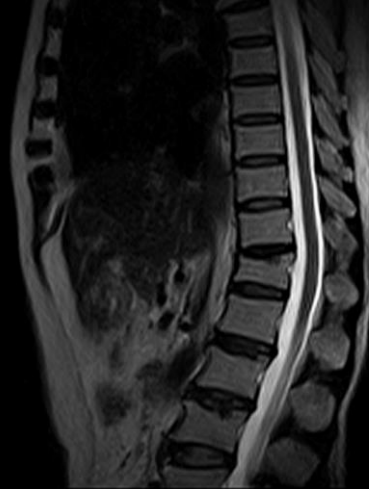
Clinical application-Spine



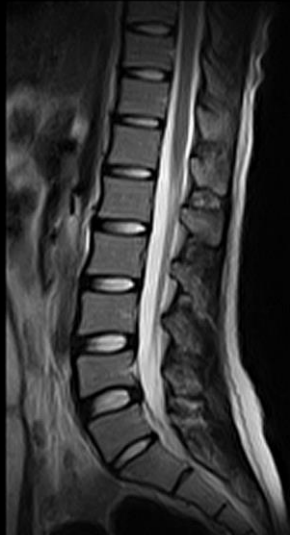
C-Spine T1WI



C-Spine STIR



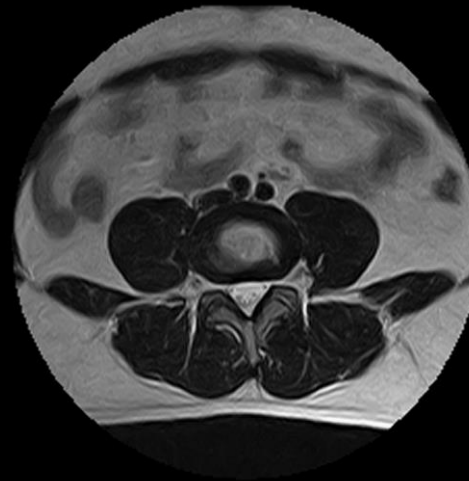
T-Spine T2WI



L-Spine T2WI



L-Spine STIR



L-Spine T2WI_Tra



High resolution spine images



Comprehensive protocol

- T1WI, T2WI, PDWI, STIR
- T2*WI based on GRE
- MR myelography (MRM) 2D & 3D
- MR angiography
- DIXON*



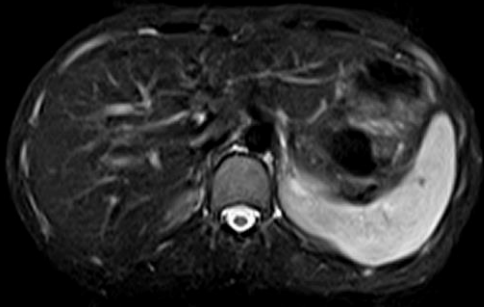
Fast scan speed

- Routine scanning finish in 13-17 minutes

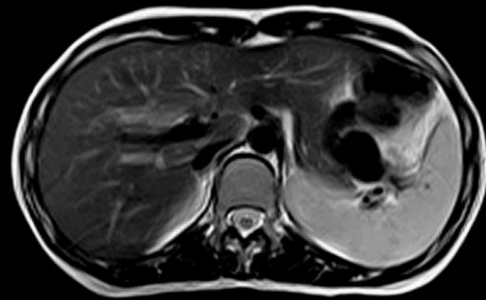
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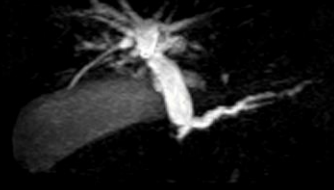
Clinical application-Body



Abdomen STIR



Abdomen T2WI



MRCP

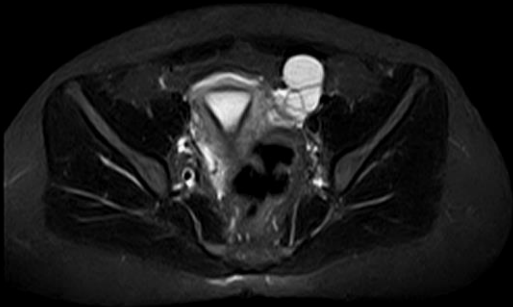


High resolution body images



Comprehensive protocol

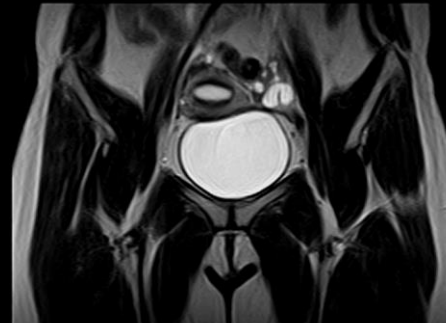
- T1WI, T2WI, STIR
- MRCP, MRU 2D & 3D
- DWI, DIXON*
- Propeller imaging*
- Breath hold and Respiratory gating functions



Pelvic STIR



Pelvic T2WI



Pelvic T2WI_Cor



Fast scan speed

- Routine scanning finish in 17-20 minutes

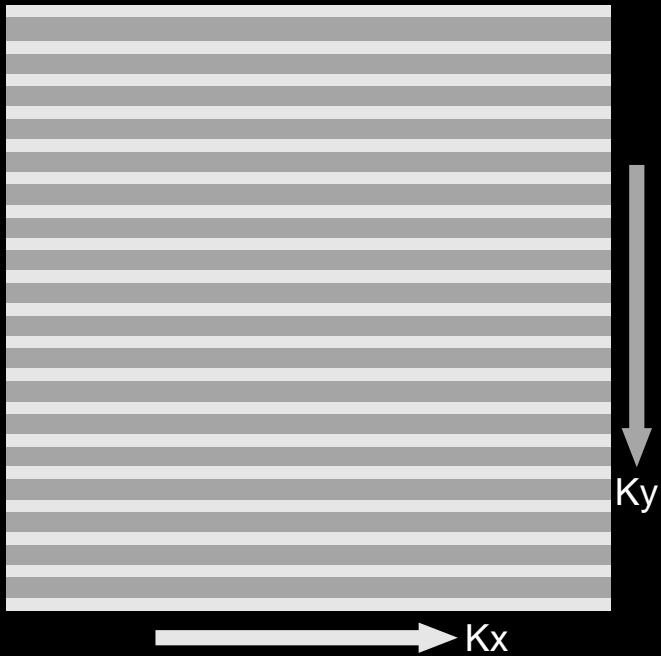
Marked with '*' means it's not a standard offer.



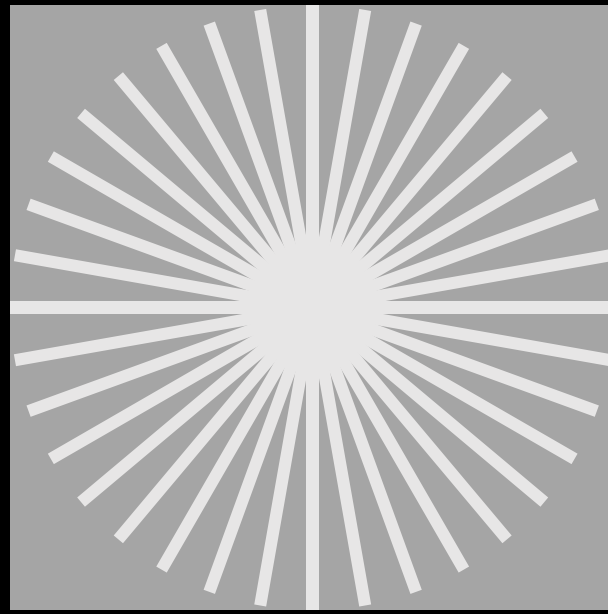
Clinical application-Body



“Propeller” technology is a new method of MRI data collection and reconstruction, witch will reduce the motion artifact of images.



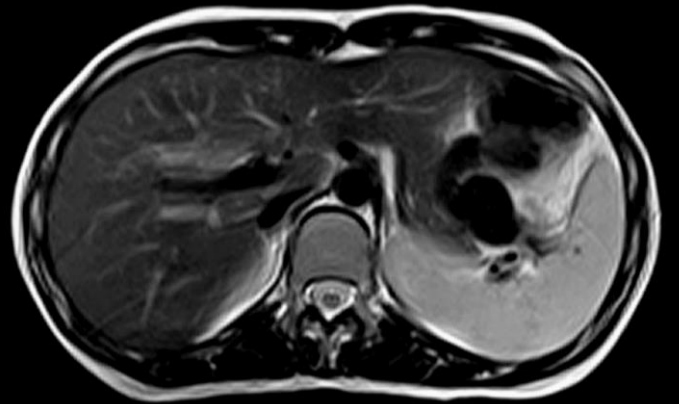
Basic K space filling



Propeller K space filling



Routine FSE



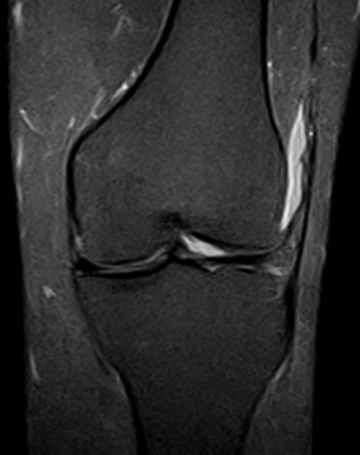
Propeller FSE



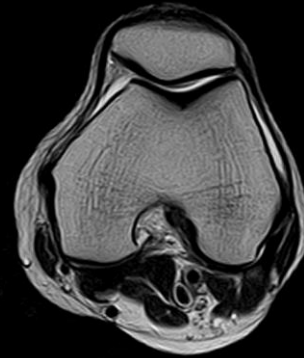
Clinical application-Limbs



Knee GRE2D



Knee STIR



Knee T2WI

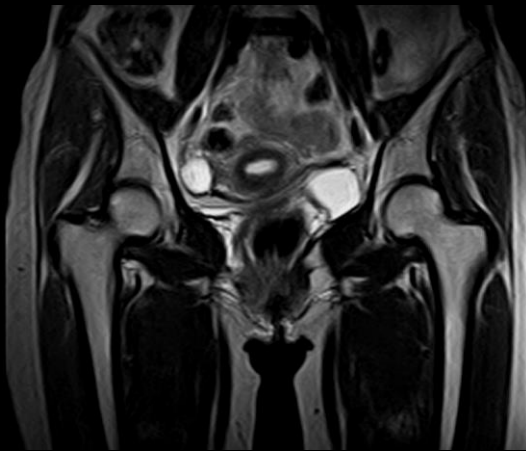


High resolution limbs images

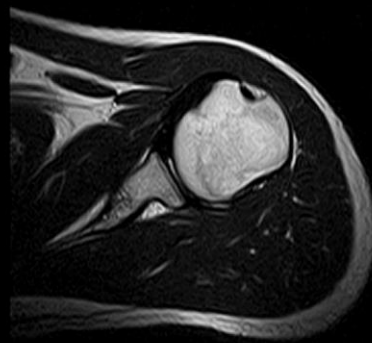


Comprehensive protocol

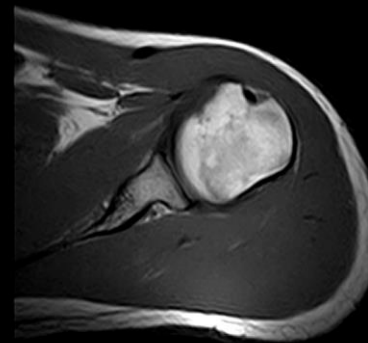
- T1WI, T2WI, PDWI, STIR
- T2*WI based on GRE
- 3D T1WI, T2WI for small joints
- DIXON



Hip T2WI



Shoulder T2WI



Shoulder T1WI

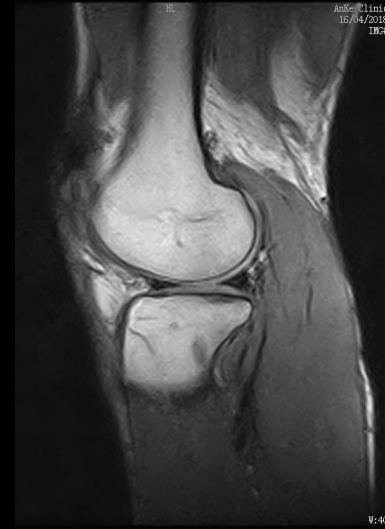
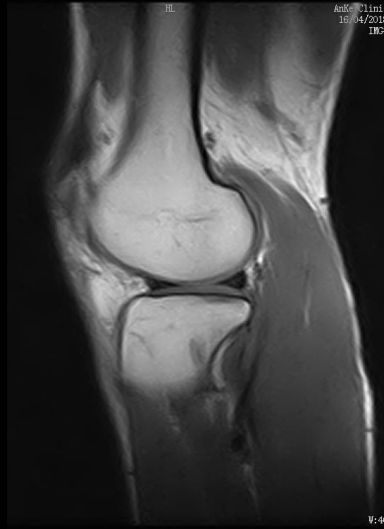
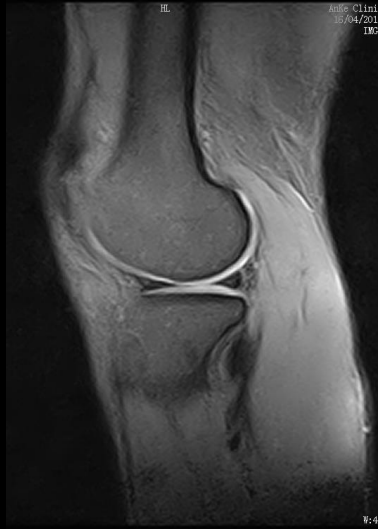


Fast scan speed

- Routine scanning finish in 15-18 minutes



Clinical application-Limbs



DIXON_Fat

DIXON_Water

DIXON_T1WI

DIXON_in-phase

DIXON_out-phase



Low operating cost

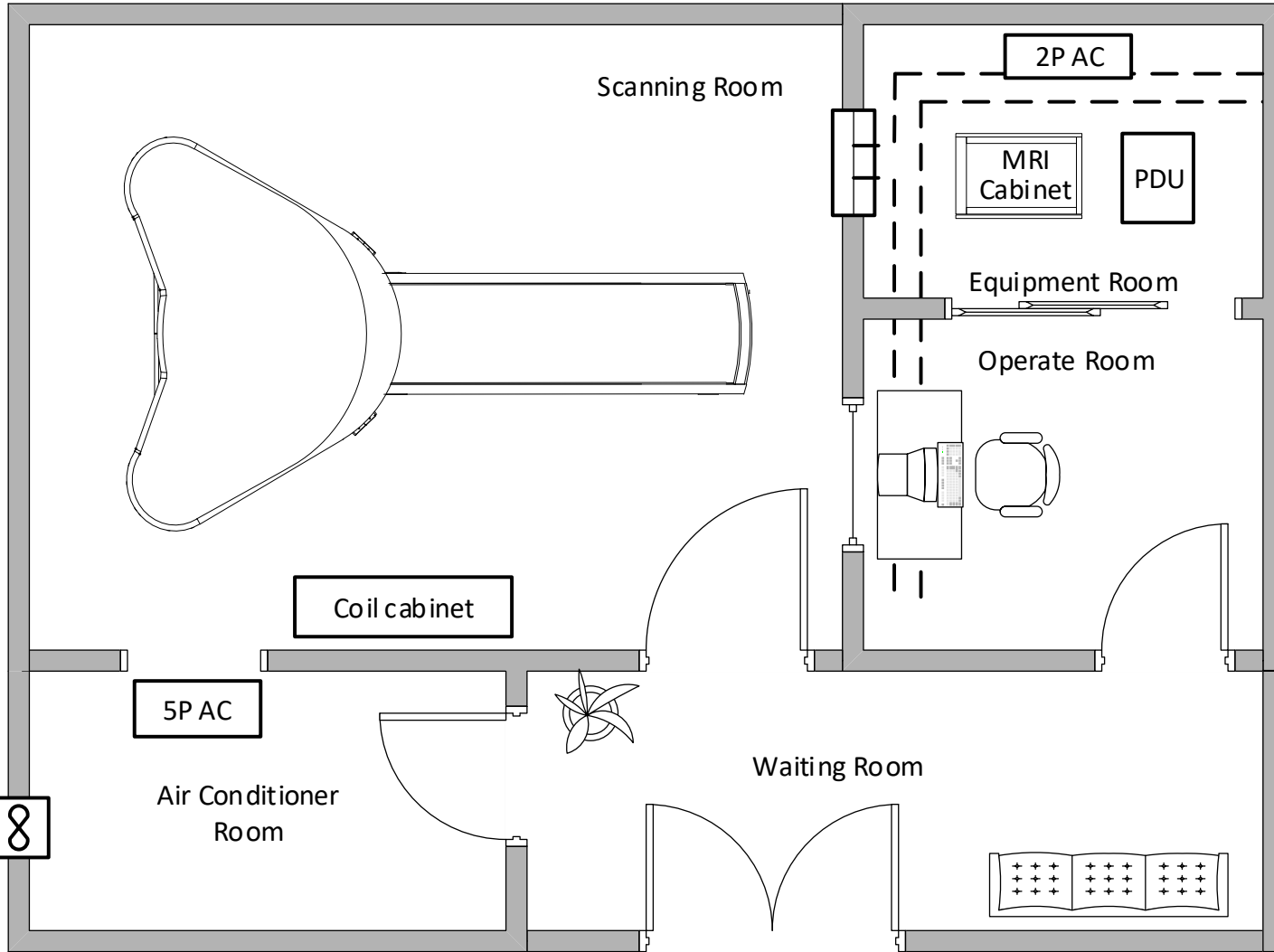


Meet you 72% clinical application with convenient operation experience, you pay only 20% compared to superconducting MRI

The sample data is for reference only, actual cost depends on the customer's operation and maintenance.



Flexible site design



- ◆ Scanning room size: $>25m^2$
- ◆ System peak power: $\leq 10KW$
- ◆ Supplied power: 15KVA

Comprehensive site planning services

- Professional site-planning team
- Full set shielding room provided
- Customized service

Thank you



**Insight
Into life.**
www.anke.com

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