

ELK-DIVERSITY MARK 2



ELK-Diversity Mark 2

Superconducting MRI System

ELK-Diversity Mark 2 is a latest generation superconducting MRI system based on over 30 years of experience in research and development, which focuses on user s concerns. This system is equipped with a newly upgraded hardware and software platforms with A-combi and AI technologies that benefit users a lot and deliver patients with more comfortable experiences. It features new user-friendly design, faster imaging speed, higher image quality and greatly improved work efficiency.

ELK-Diversity Mark 2 provides not only conventional pulse sequences and basic clinical applications, but also advanced functional applications. Moreover, it adopts brand new professional APEX operation system which ensures easy operation and fast diagnosis.

Short bore superconducting magnet

High magnetic field uniformity, easy to achieve large FOV rapid imaging and high-quality fat suppression imaging

Liquid helium "zero" boil-off technology

High cost-effective ELK-Diversity Mark 2 equipped with "4K" cold head and utilizes "zero" boil-off technologies, which ensure stable running without liquid helium refilling.



ELK-Diversity Mark 2

PA Receiving Coil



Head & Neck Coil



Body Coil



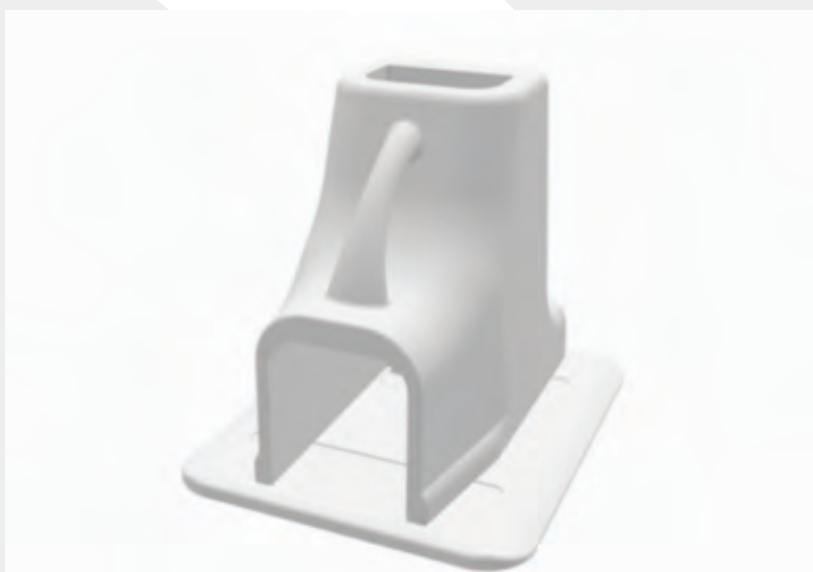
Knee Coil



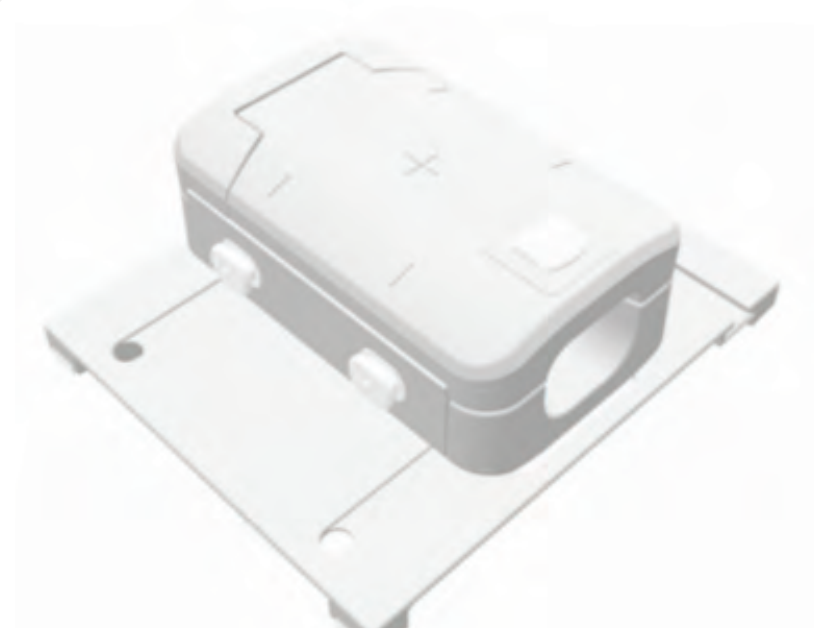
Shoulder Coil



Head Coil (Optional)



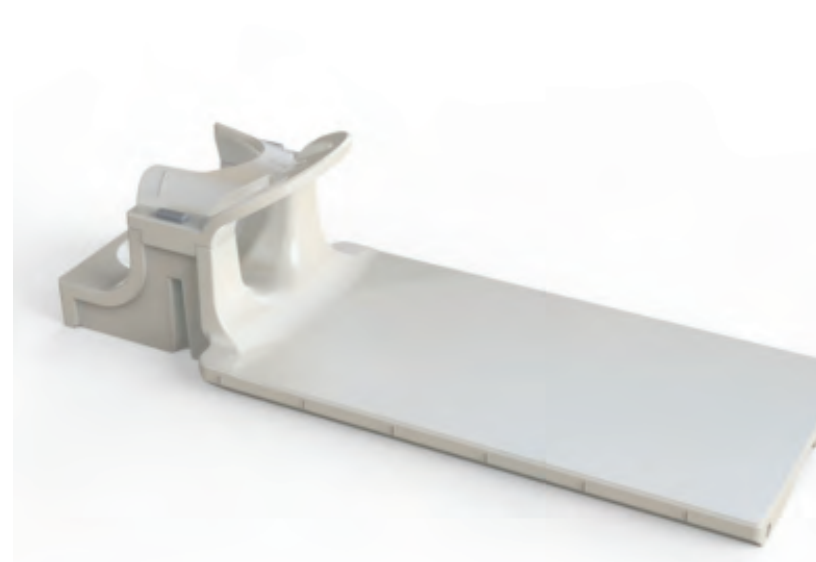
Ankle Coil
(Optional)



Wrist Coil
(Optional)



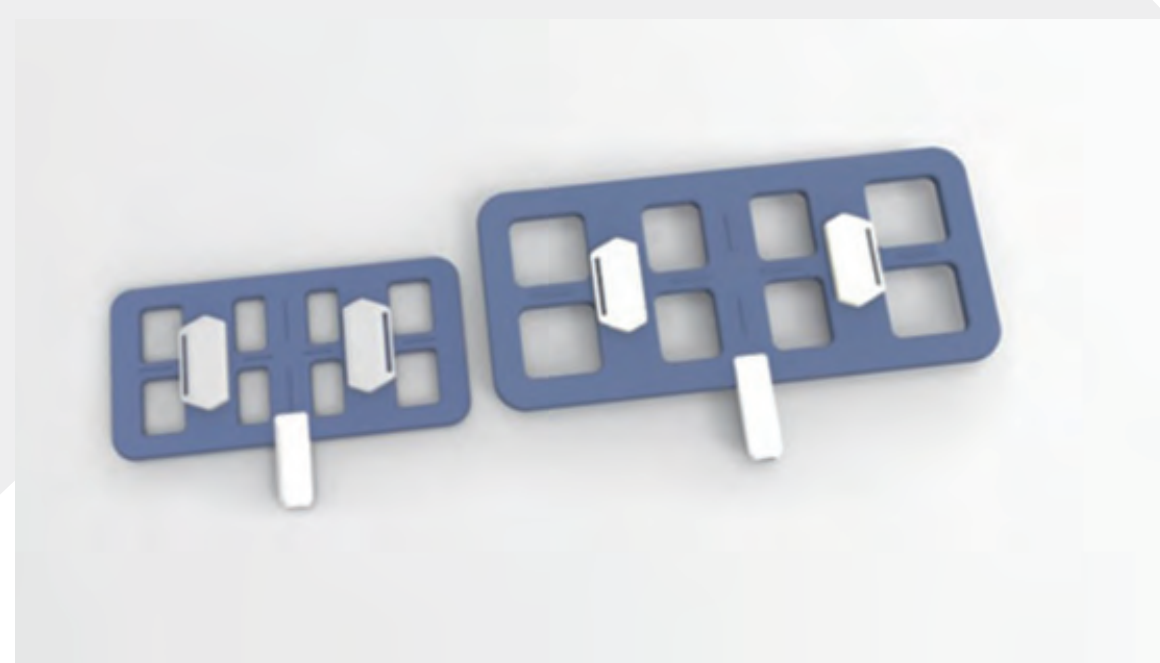
Neck coil
(Optional)



Spine Coil
(Optional)



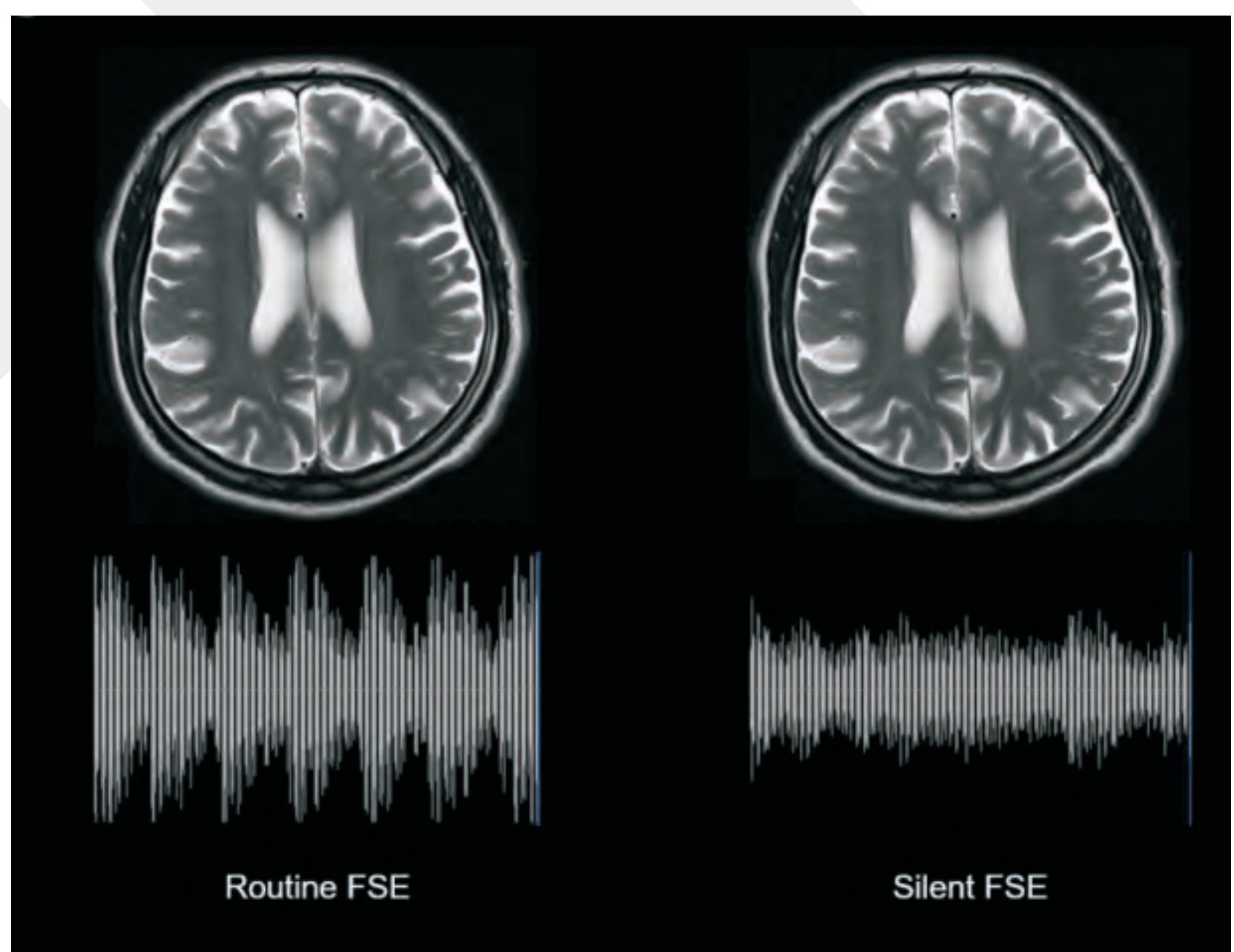
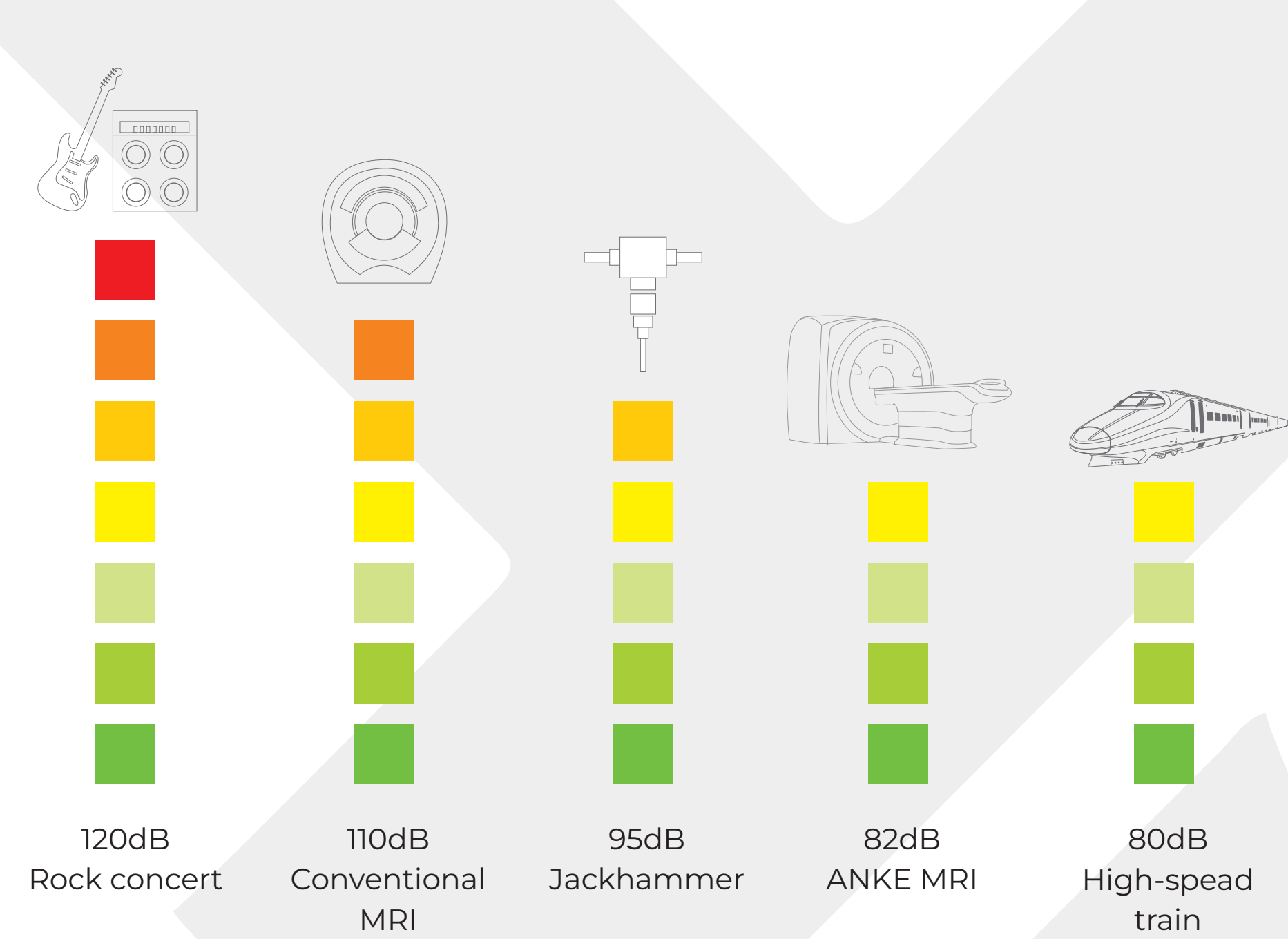
Breast Coil (Optional)



Flexible Coils (2 Size, Optional)

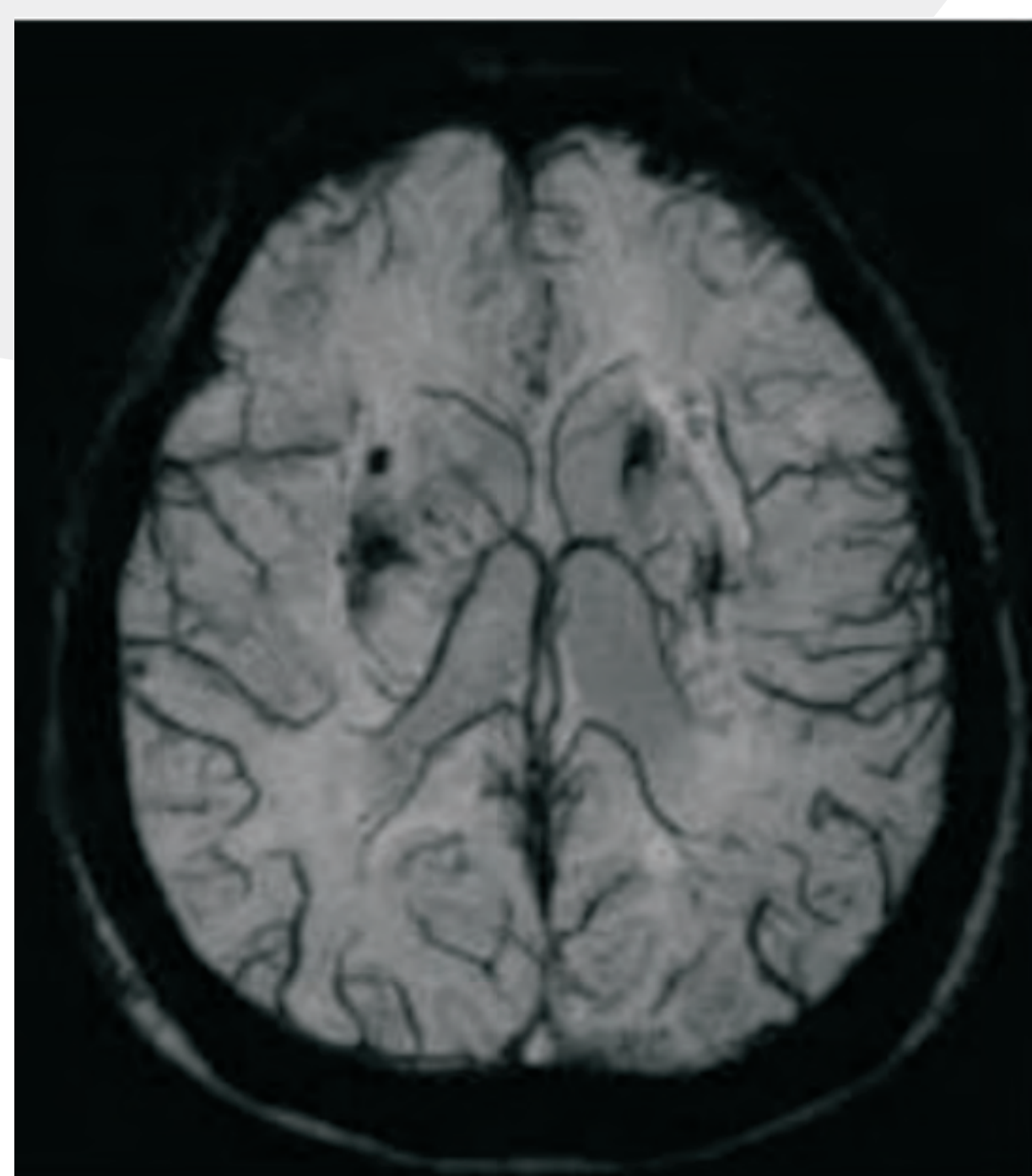
Silent Scanning Technology

By the concept of user-friendly design, ELK-Diversity Mark 2 can provide you silent pulse sequences with Lower noise, reducing the irritability of patient.

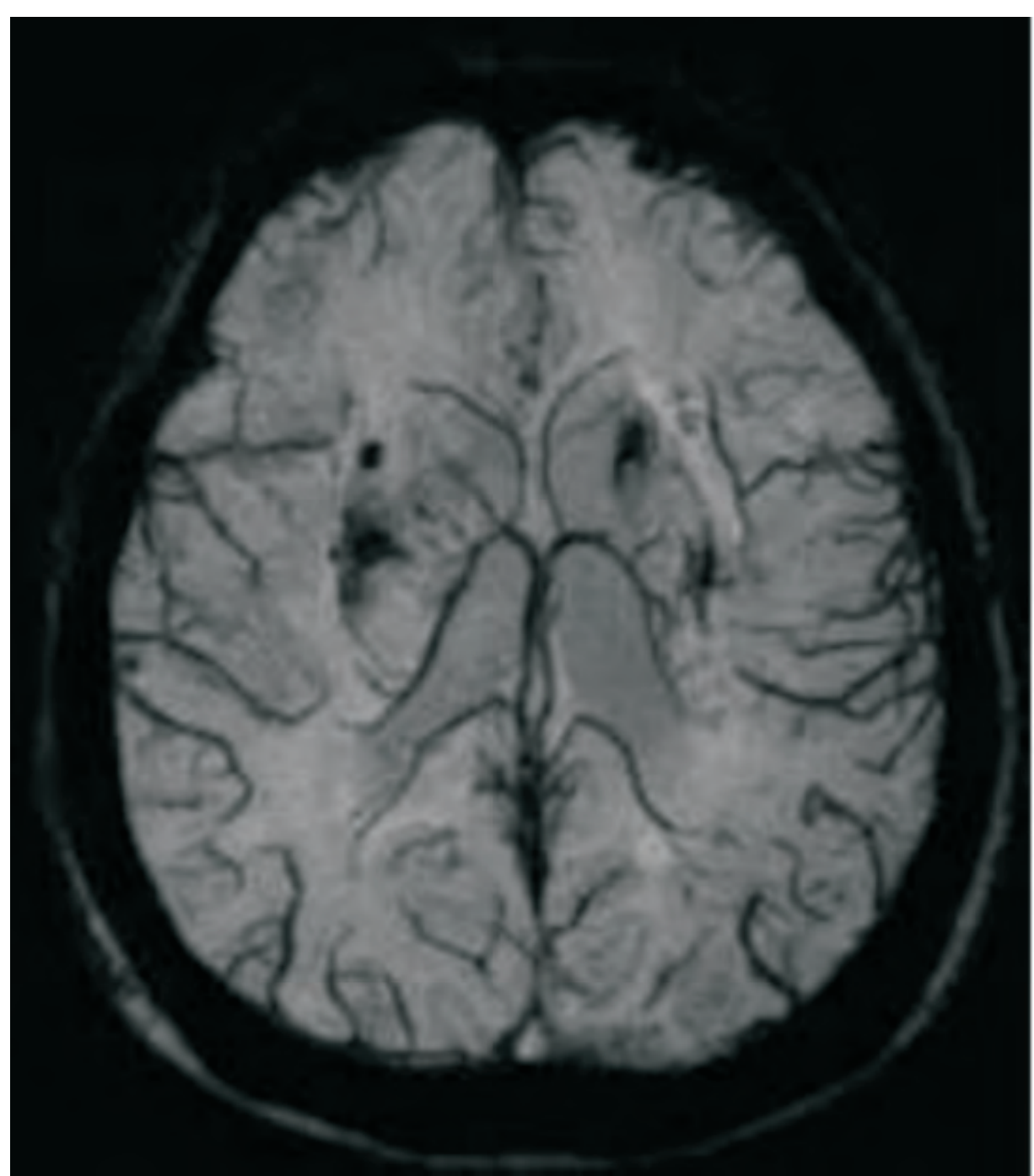


Speed & Efficient Concern Dual-engine parallel acquisition technique

Parallel acquisition technology (PAT) is a new fast acquisition technology applied to ELK-Diversity Mark 2 By reducing the number of phase coding, the acquisition speed is greatly accelerated, and the image quality and spatial resolution are maintained at a high level.



With Dual-engine Scan time = 4 48"



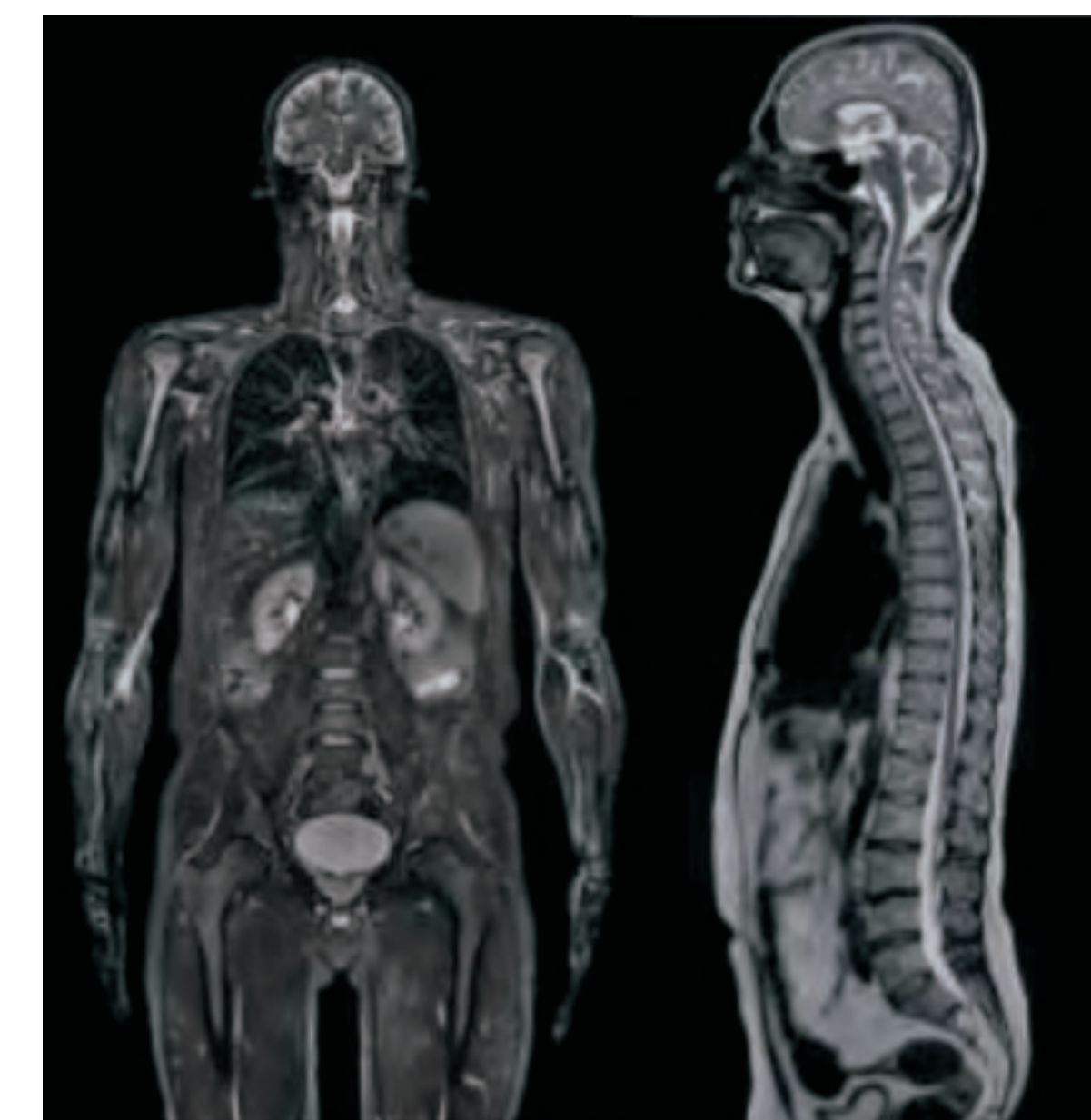
Without Dual-engine Scan time = 8 09"

ELK-Diversity Mark 2

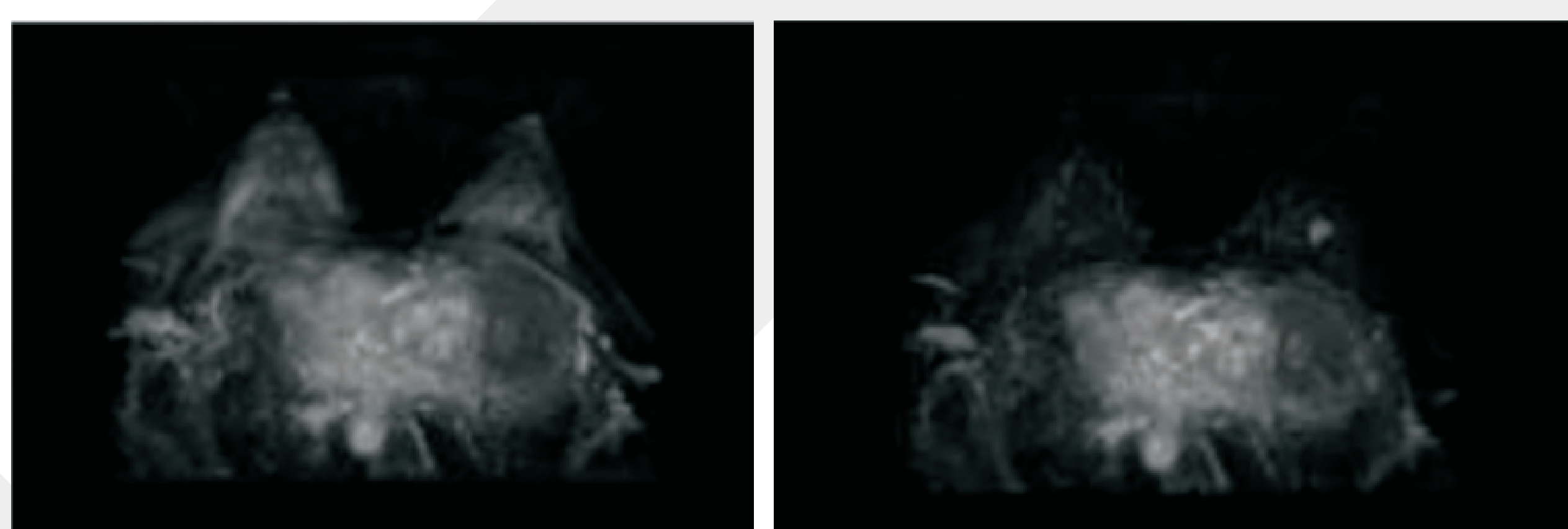
A-combi & AI Technologies*

The new ELK-Diversity Mark 2 is innovated and featured by A-combi & AI Technologies. A-combi is a coil integration technology developed by Elektro that extends your MRI daily applications. Together with AI (Artificial Intelligence) technology, it will enable you to handle your MRI practice with extra productivity, consistency and efficiency easily and confidently. You can perform several body part scans without patient repositioning. Of course, it allows you to make a whole-body scanning and whole spine imaging boosted by AI technology without any interruption.

AI technology is introduced on ELK-Diversity Mark 2 system, it will give you a complete new idea on MRI system applications like Intelligent alignment, AI stitching and AI de-noising etc..Especially, online Elastic Motion Correction (EMC) will sharply to reduce your workload and quickly produce images with excellent quality that delivers you more diagnostic confidence, particularly, when performing dynamic enhancement applications.



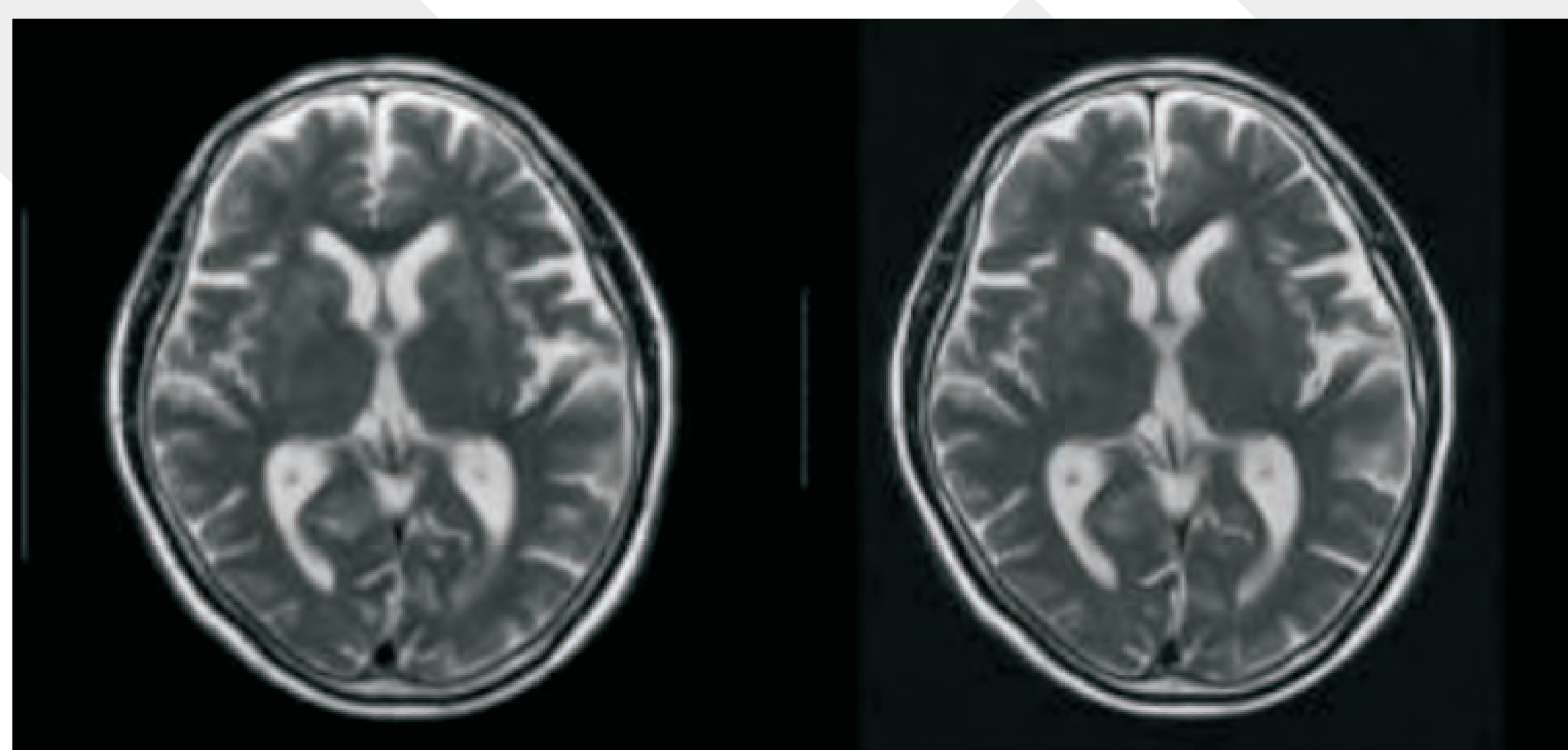
AI On-line Elastic Motion Correction (EMC) *



Without AI correction

with AI correction

AI de-noising and image enhancement technique*



Without AI de-noising,
scan time=03'44\"/>

With AI de-noising,
scan time=00'56\"/>

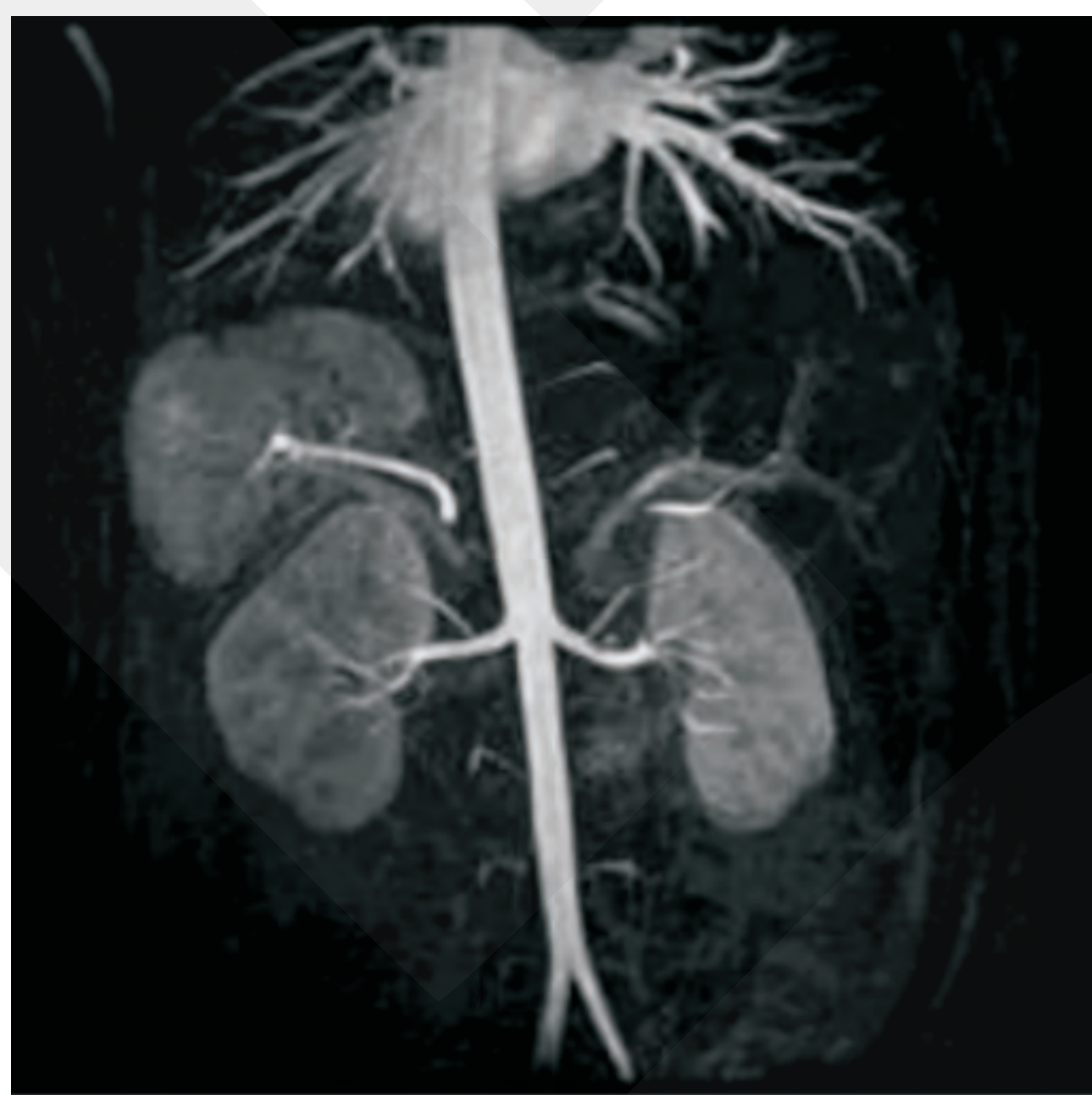


ELK-Diversity Mark 2

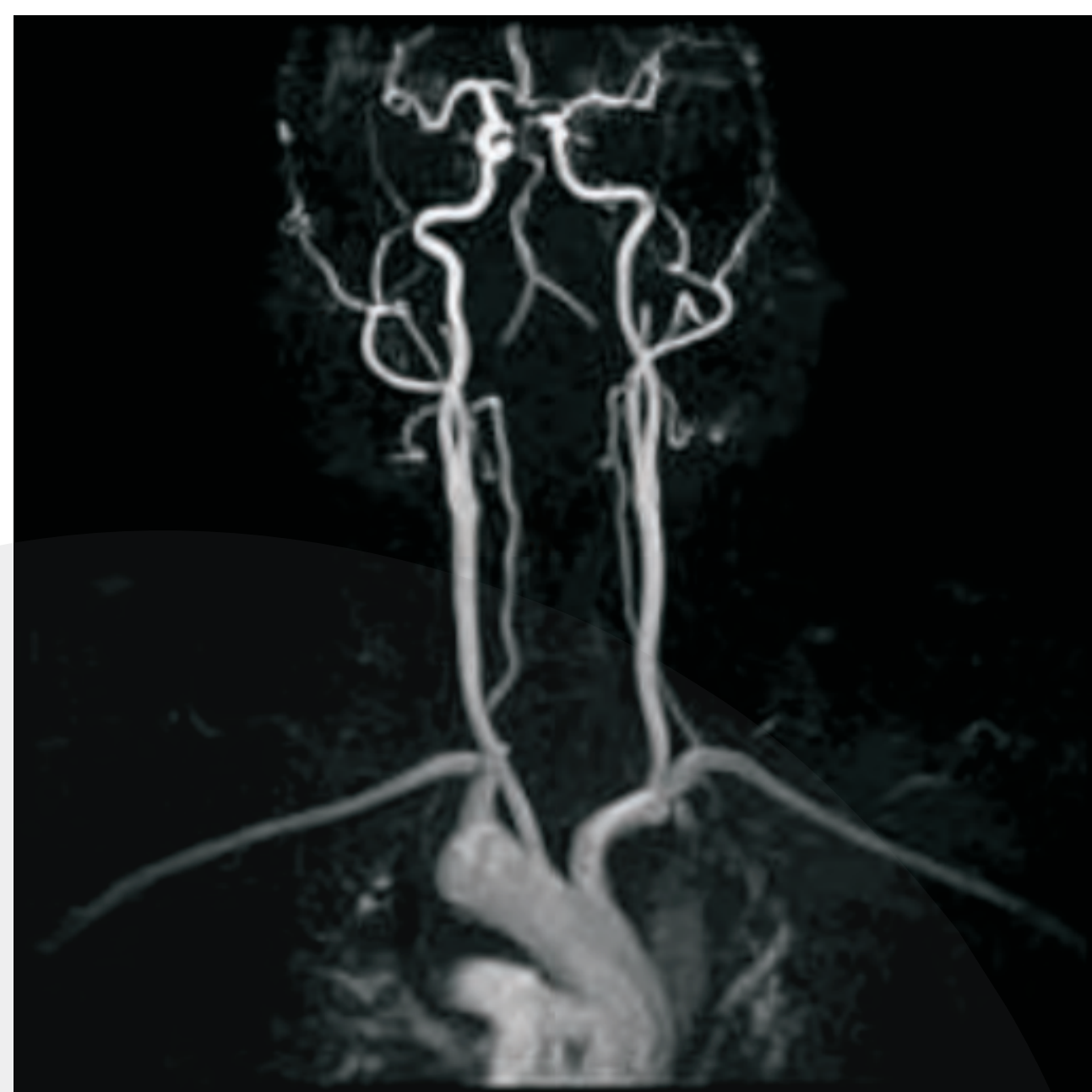
High-level Application Concern

ELK-Diversity Mark 2 takes fully comprehensive consideration for you, some useful and high-level applications are available on this system. Definitely, it will provide you mostly expected high-level applications. Some might be profitable for your business, and some be accessible only on 3T systems.

Auto-triggered CE-MRA*

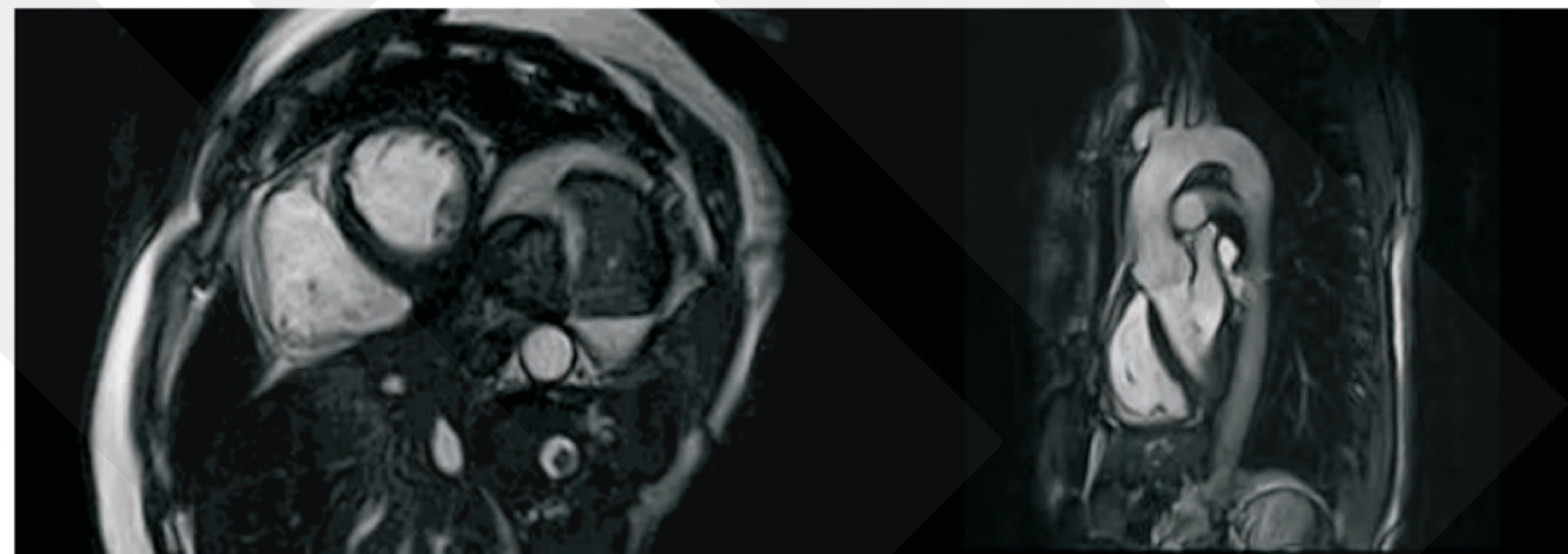


TR=4.8ms, TE=2.1ms, FA=30
Slice thickness=1.5mm

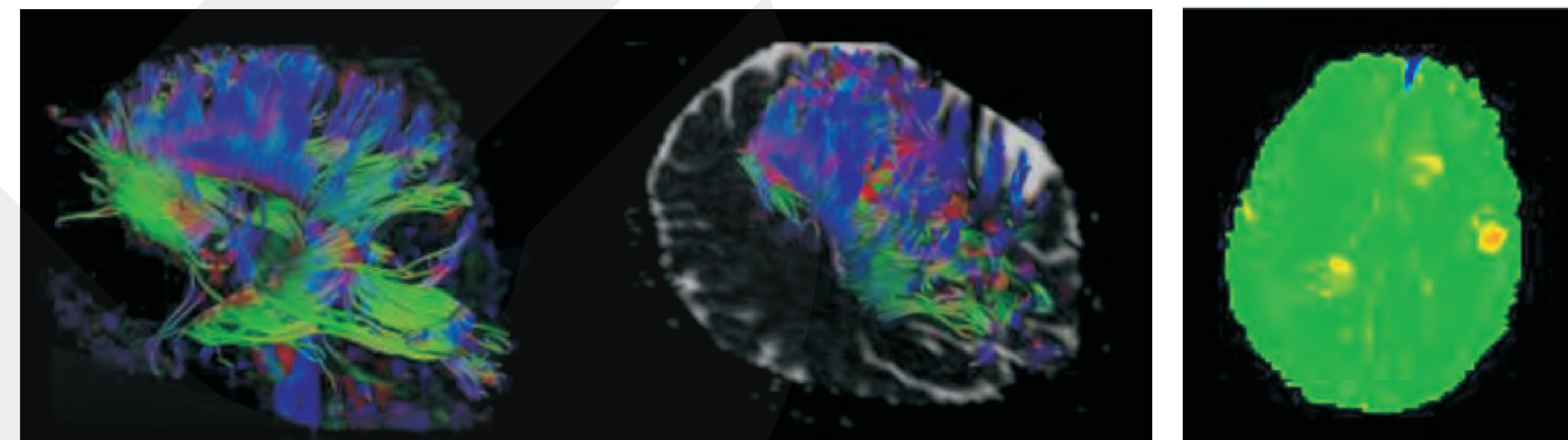


TR=4.8ms, TE=2.1ms, FA=30
Slice thickness=1.2mm

Cardiac Cine*

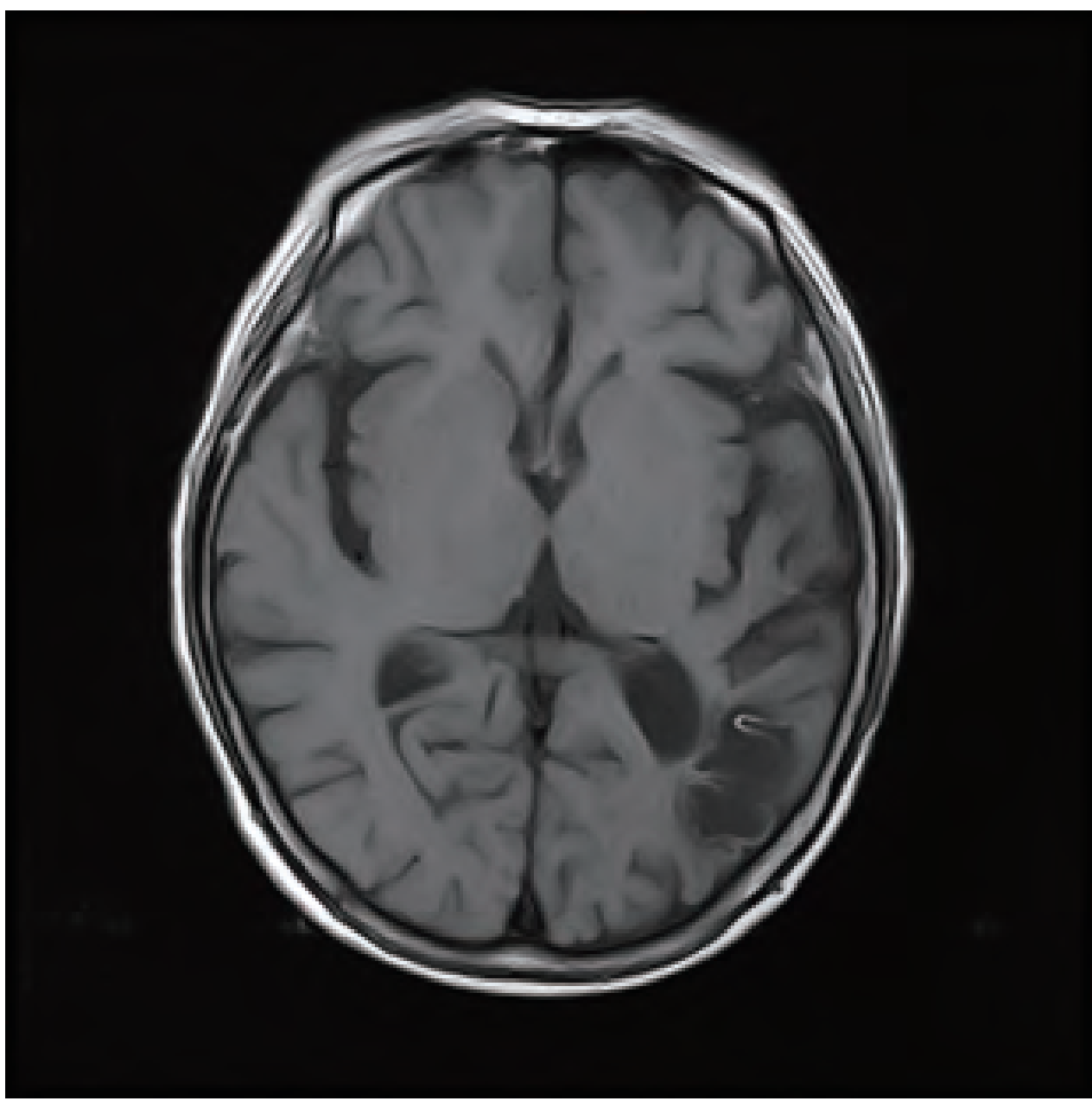


DTI*

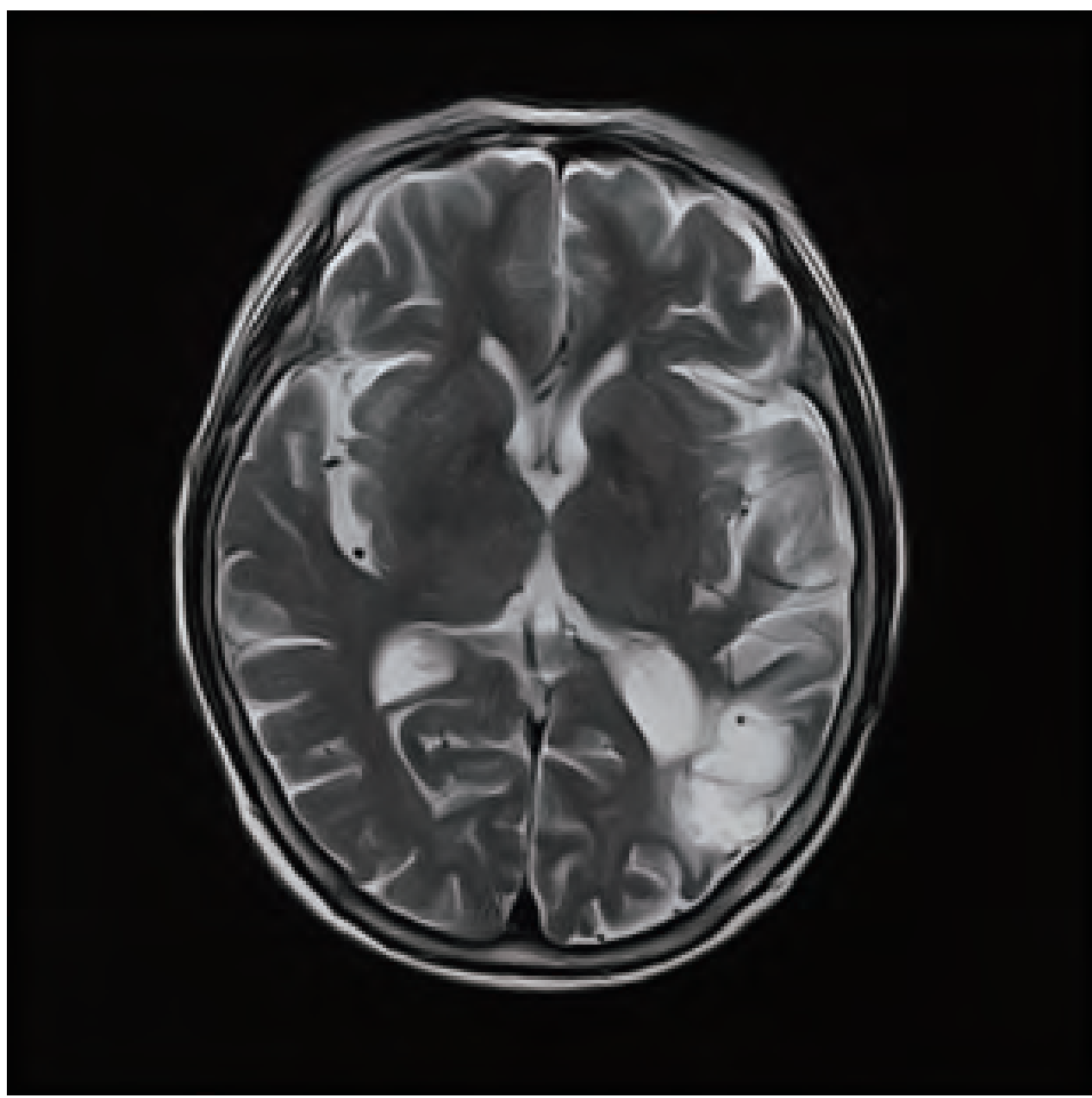


ELK-Diversity Mark 2

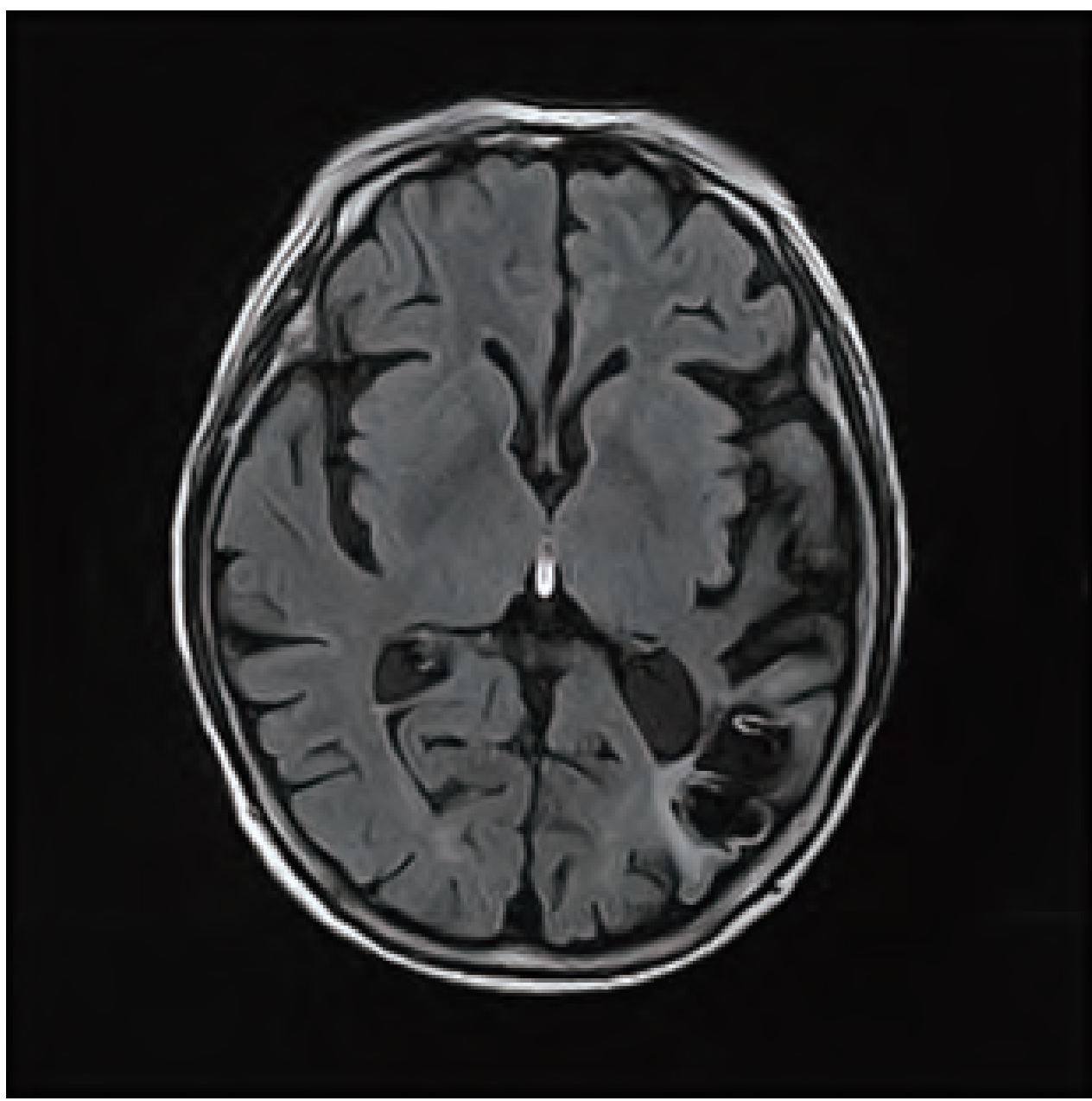
Brain



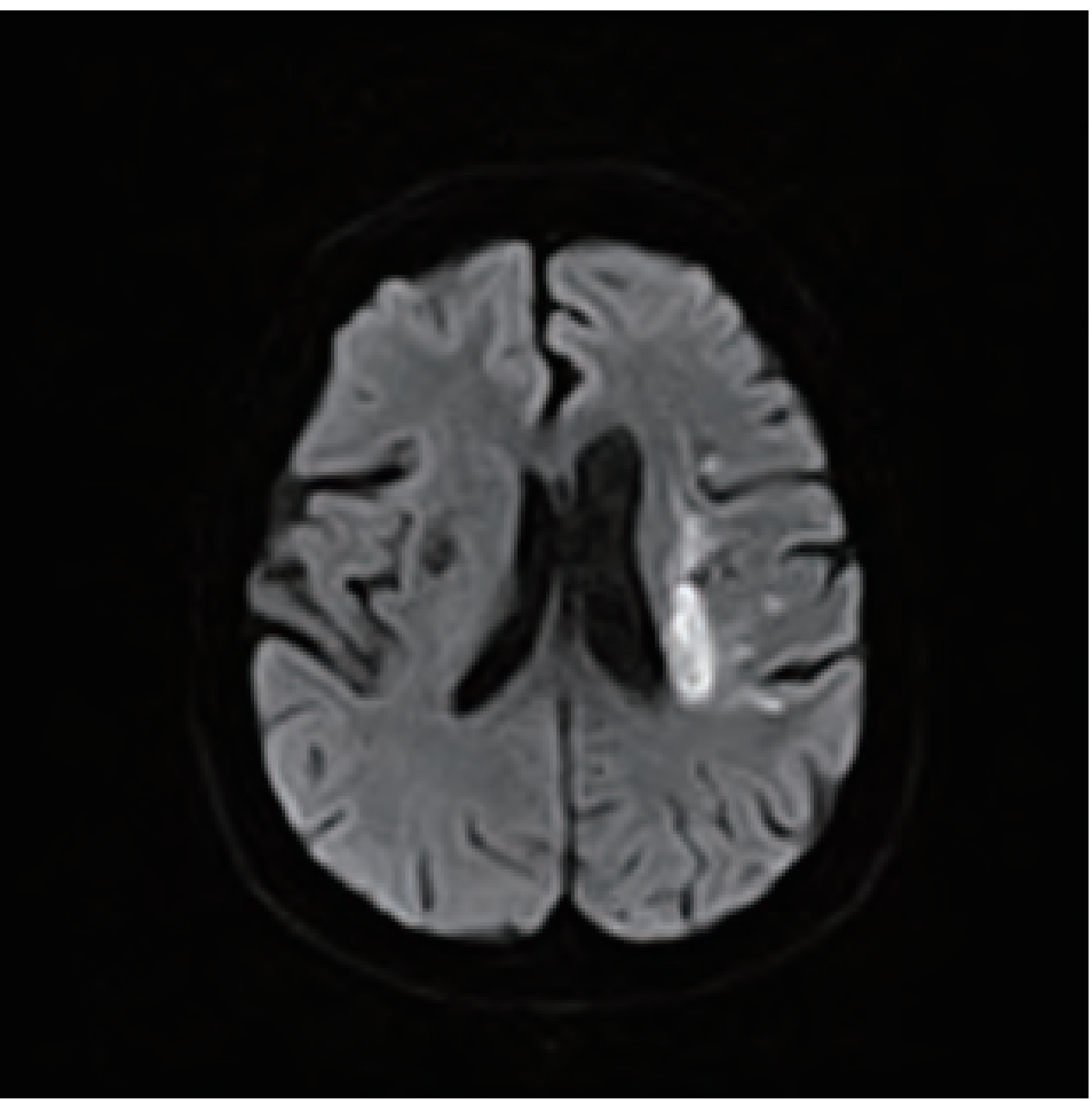
T1WI



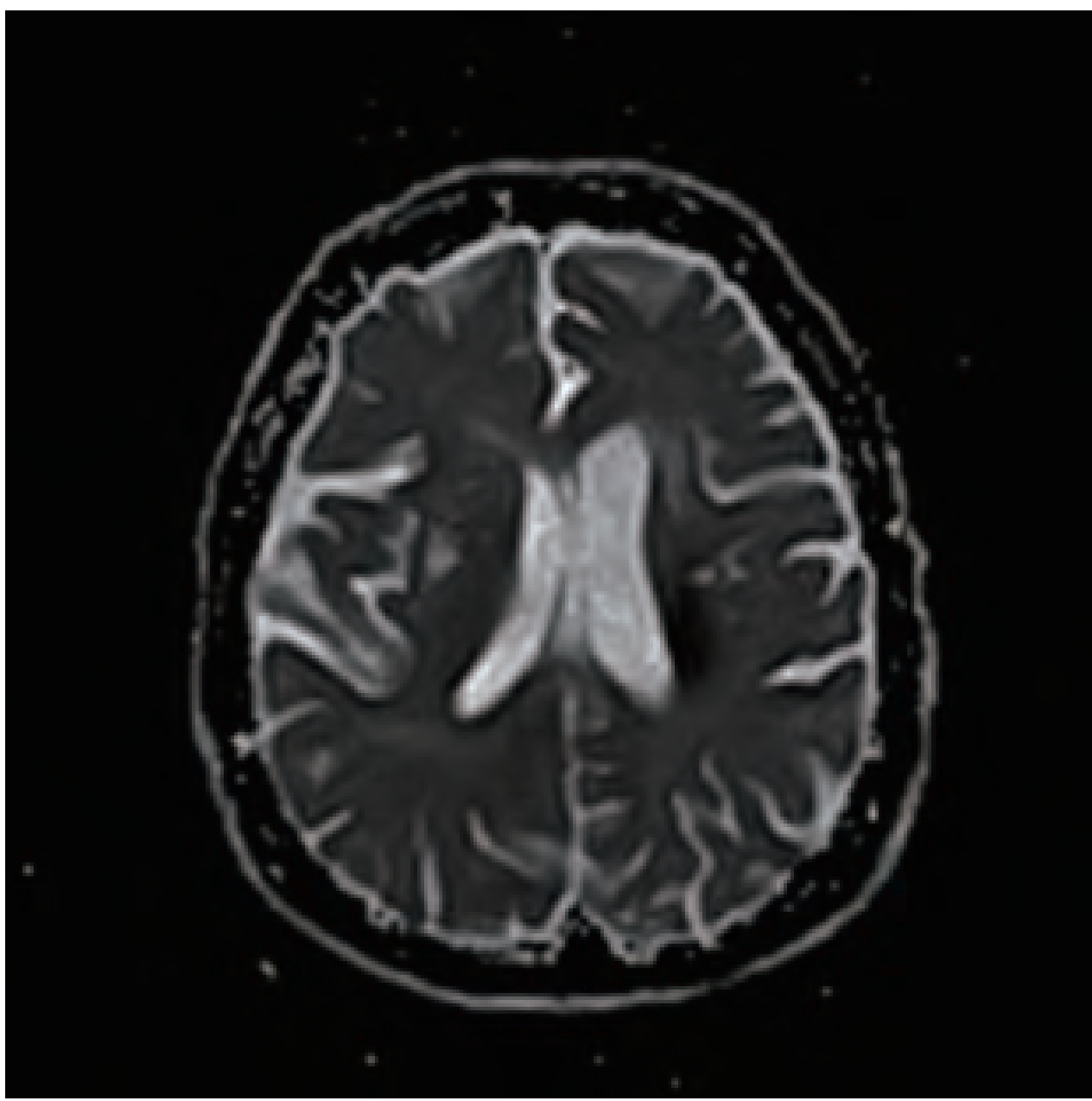
T2WI



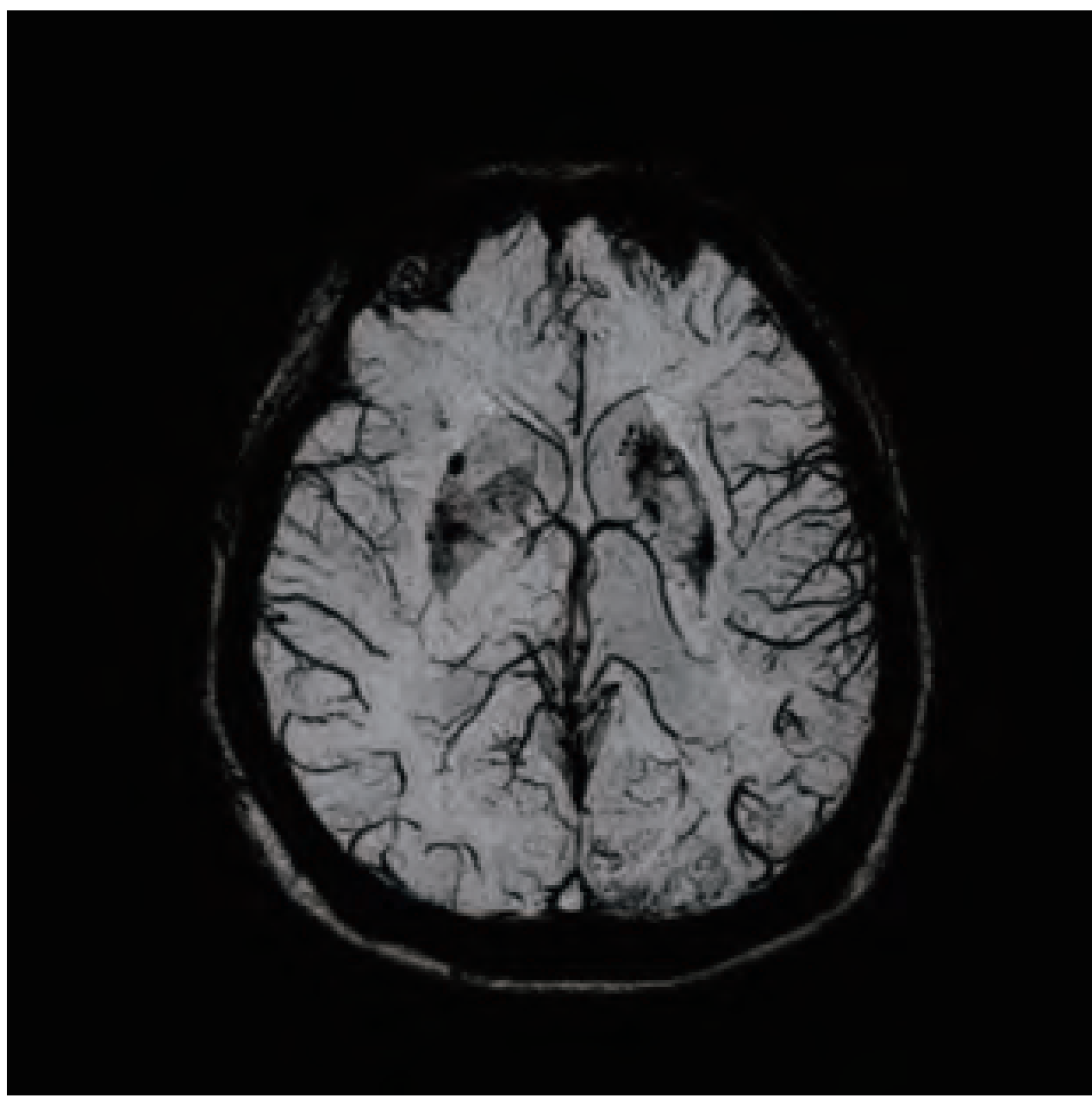
FLAIR



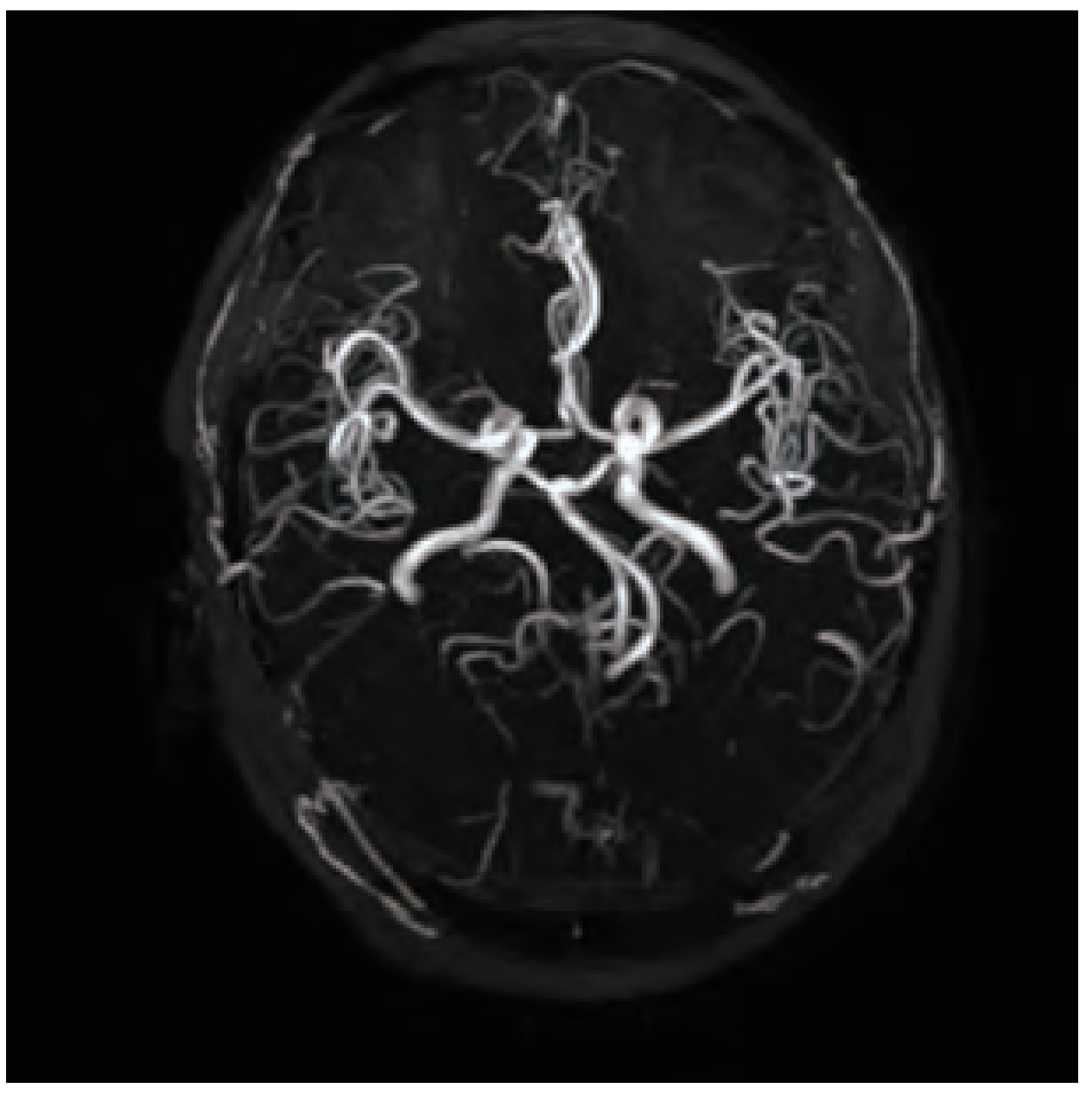
HD-DWI



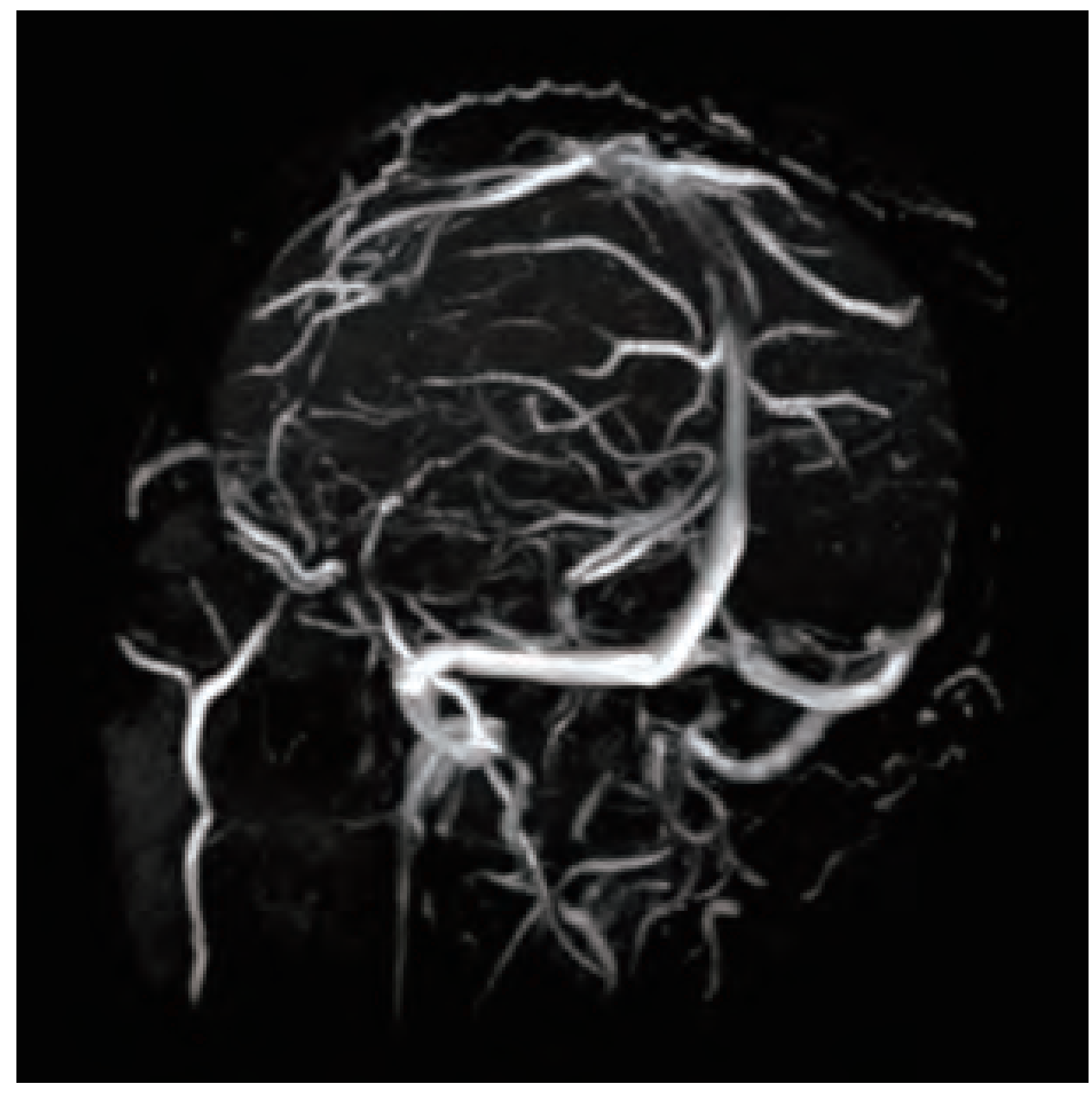
ADC



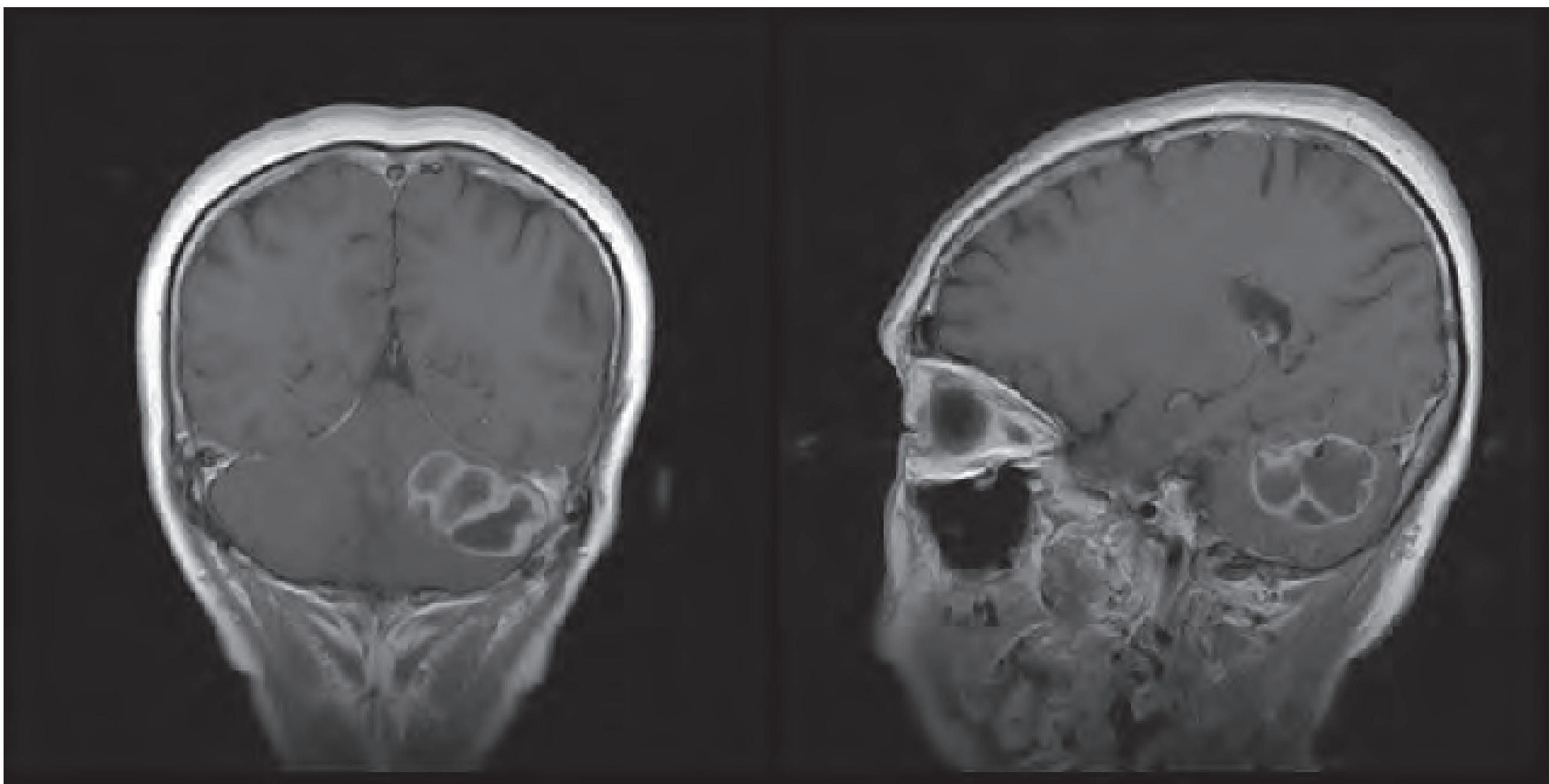
A-SWI



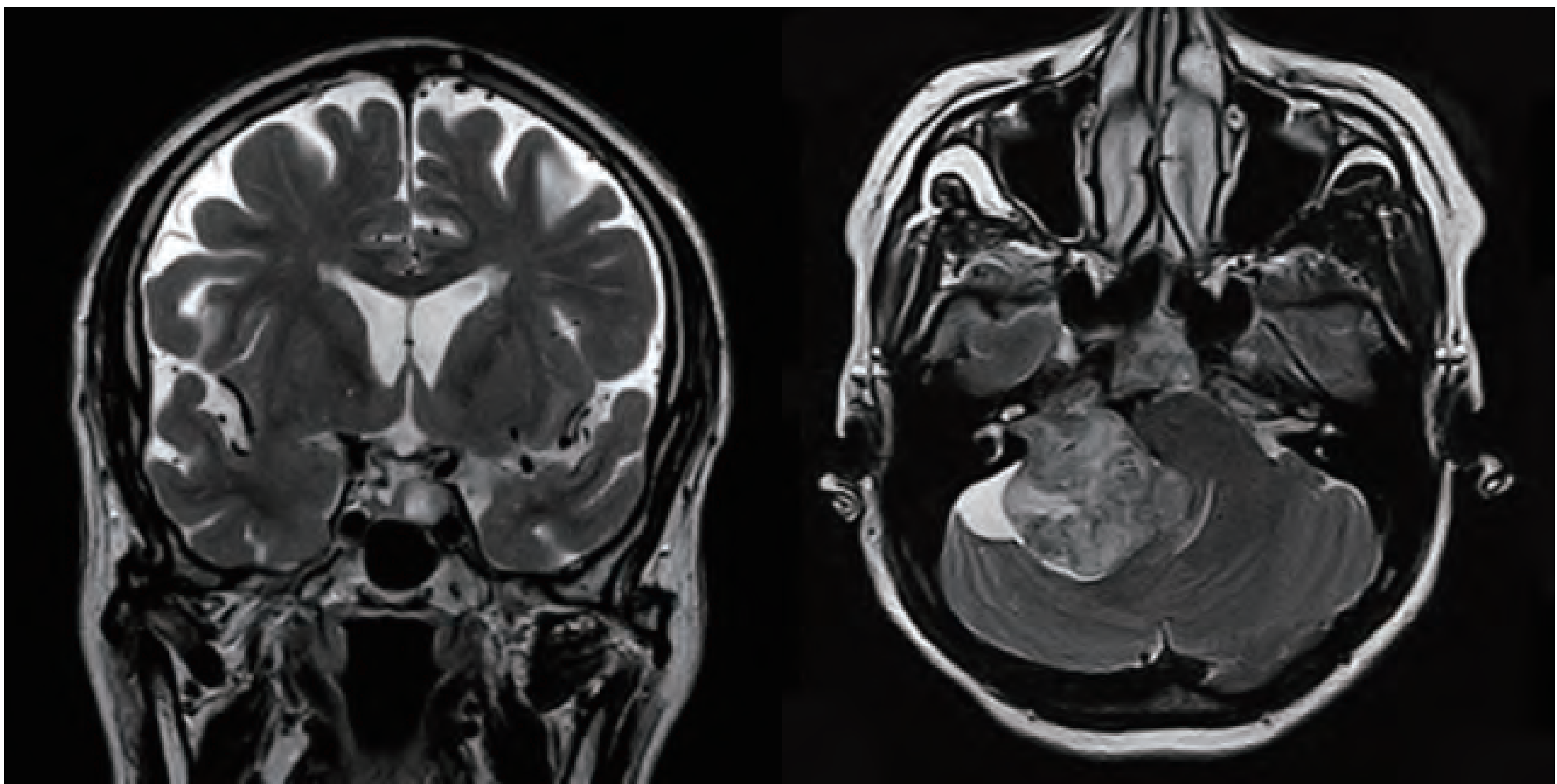
3D-TOF MRA



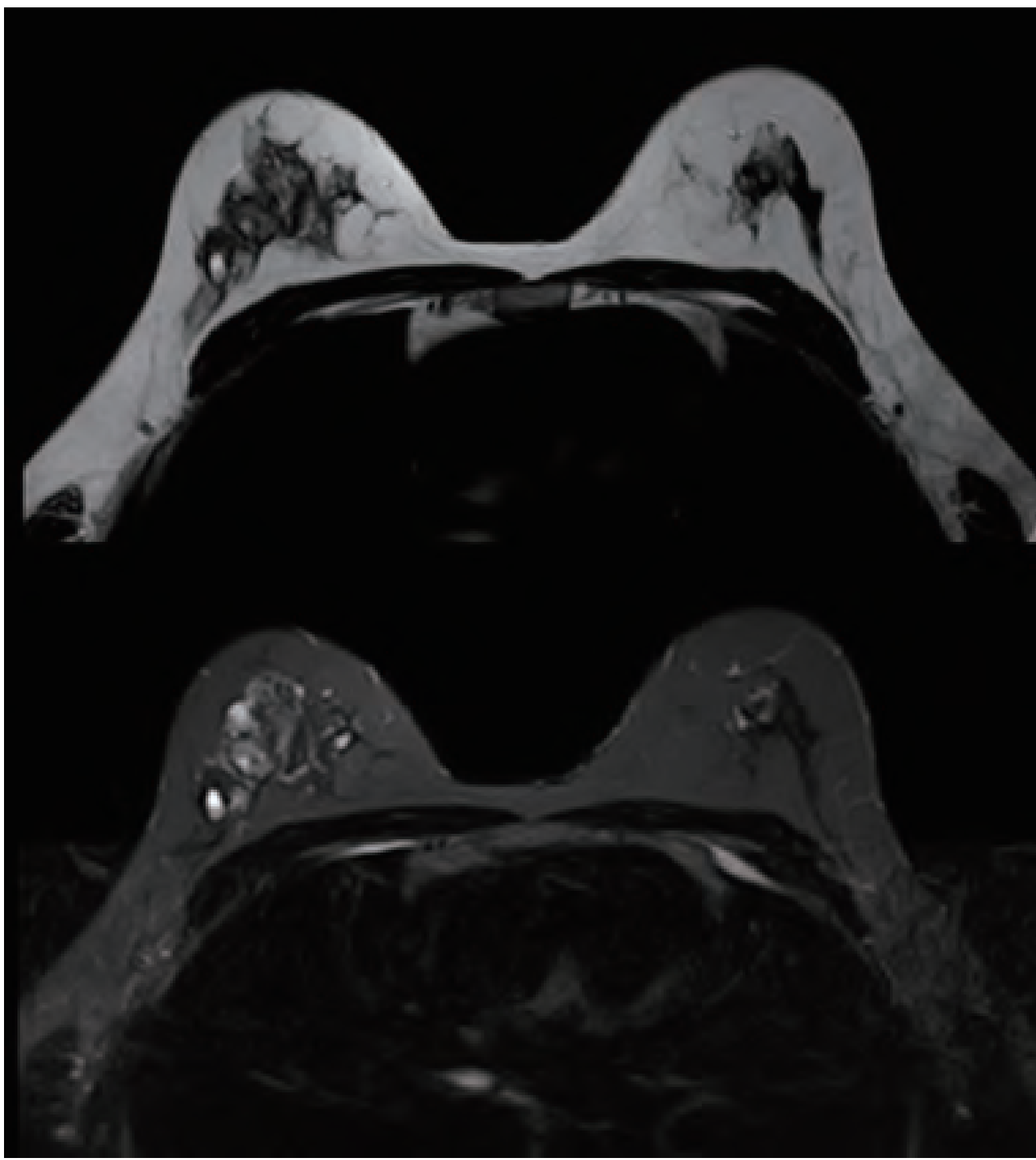
3D-TOF MRV



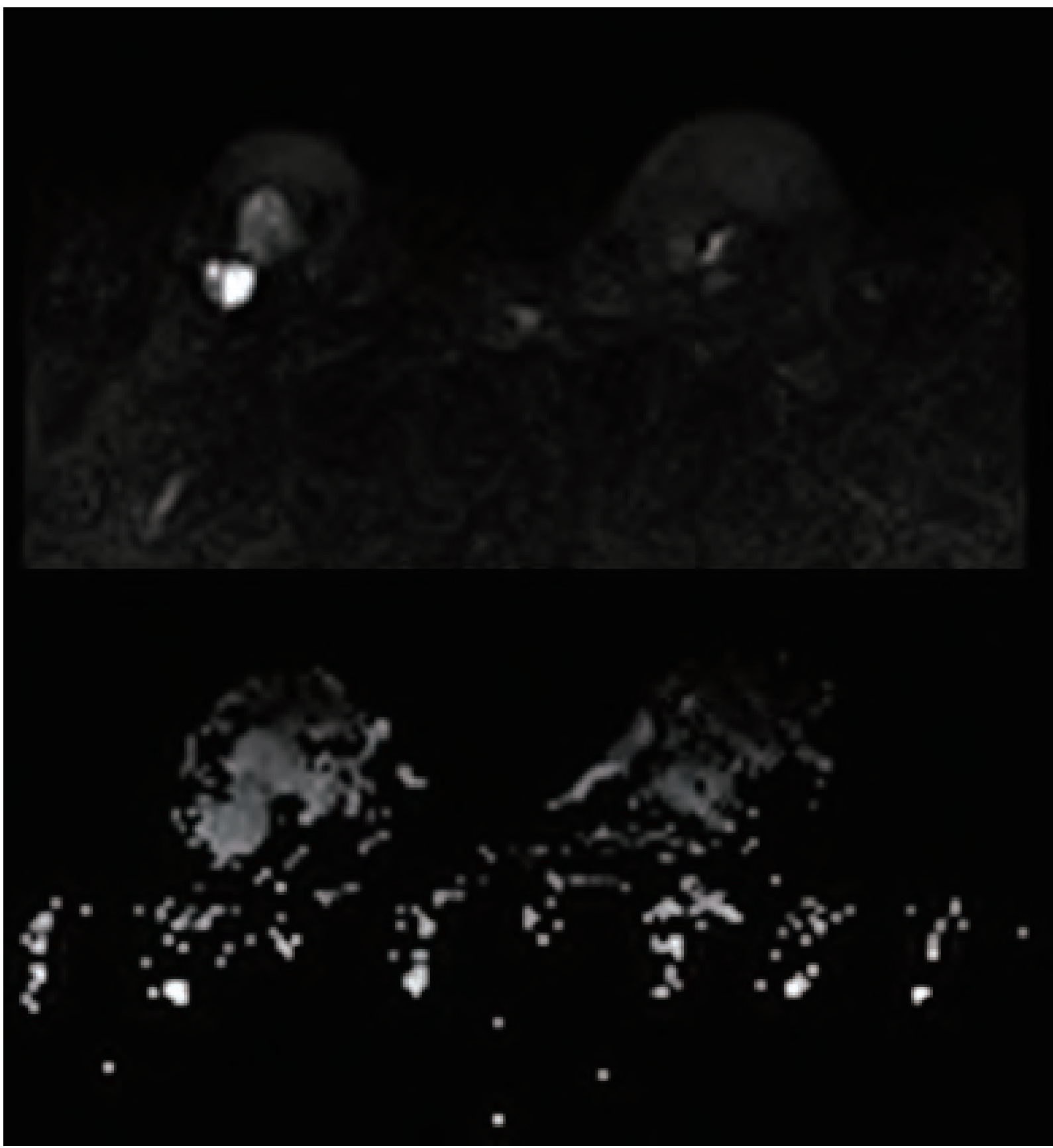
T1WI-C+



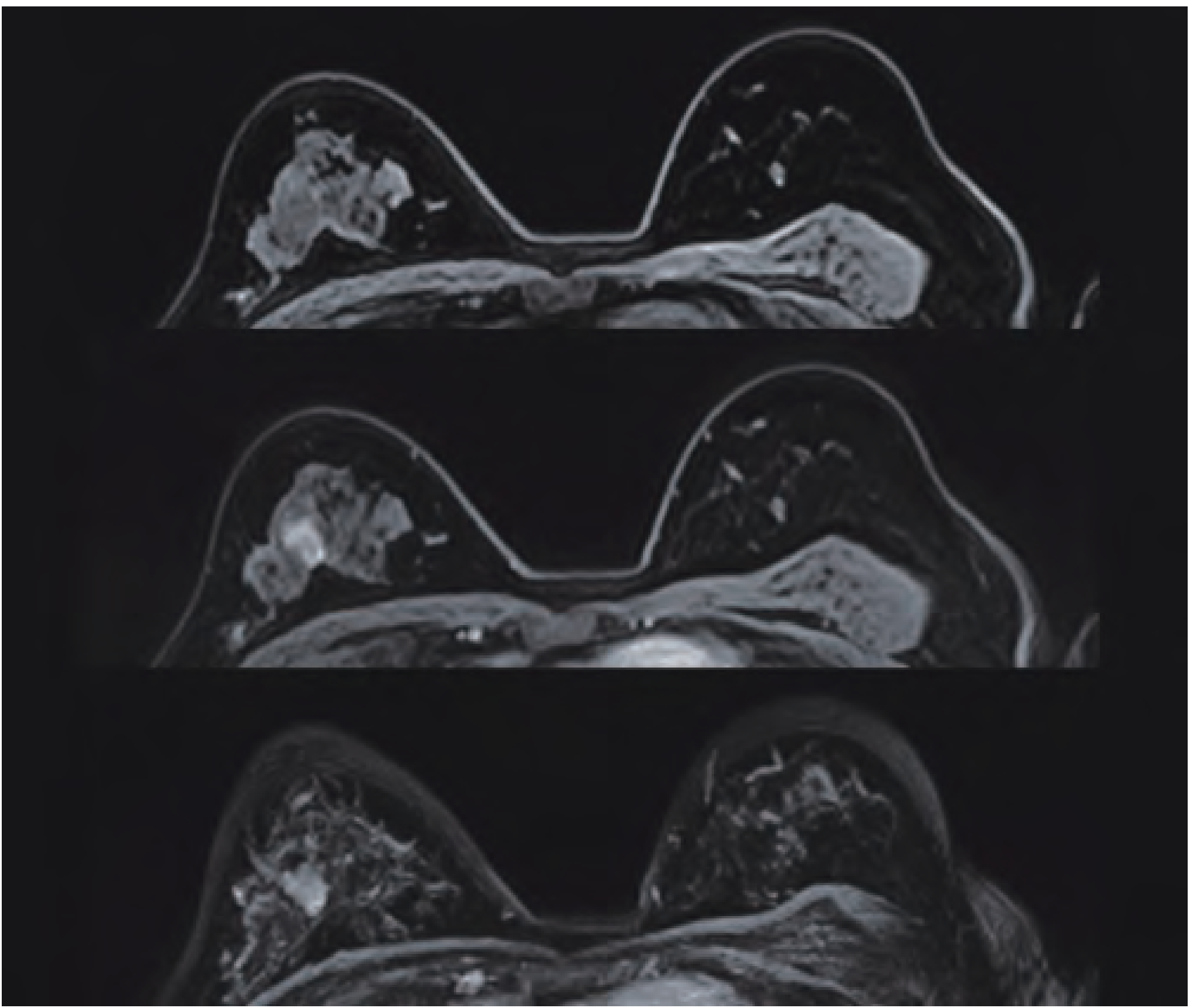
T2WI, THK=2mm



T2WI & STIR



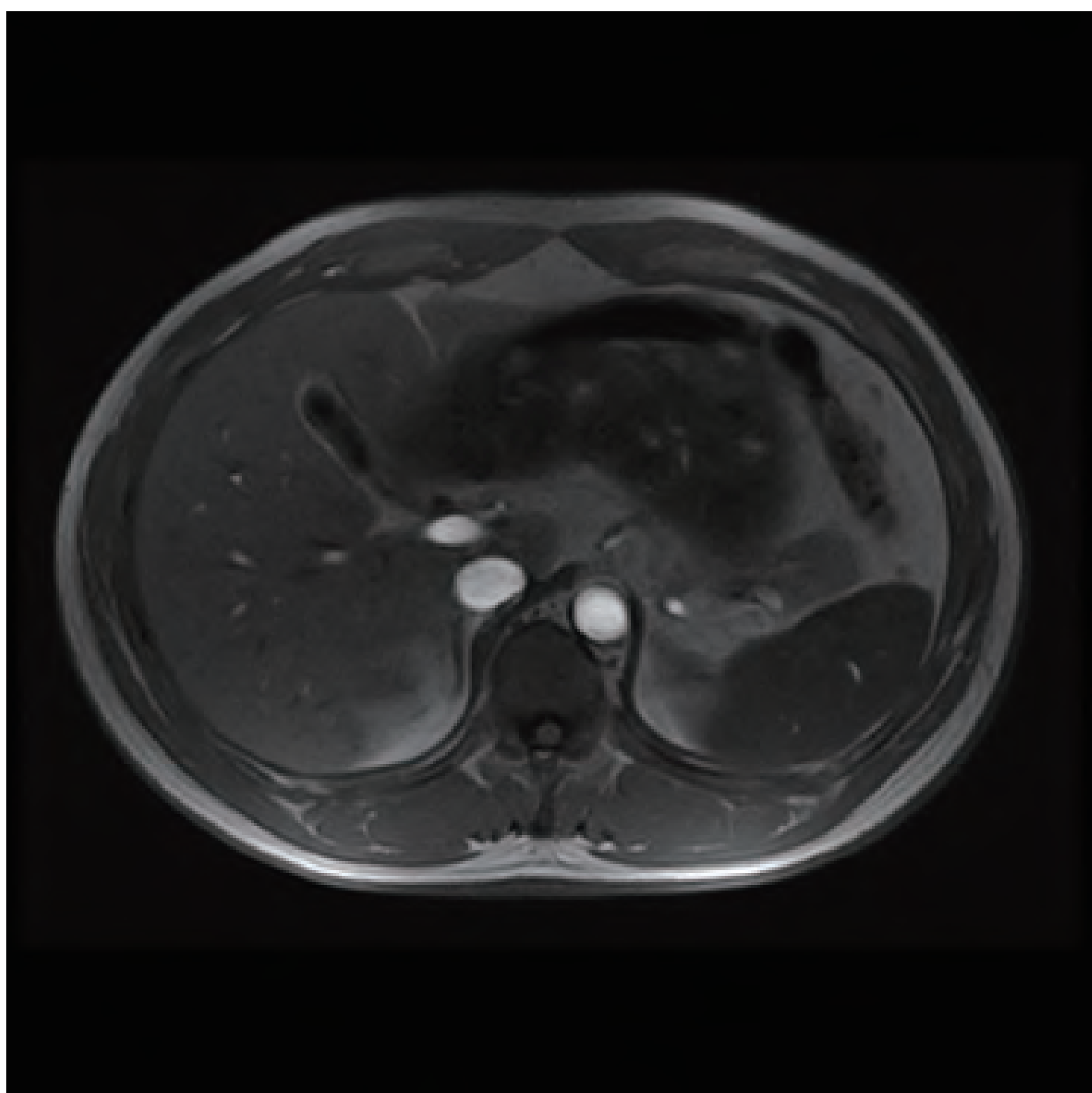
DWI & ADC



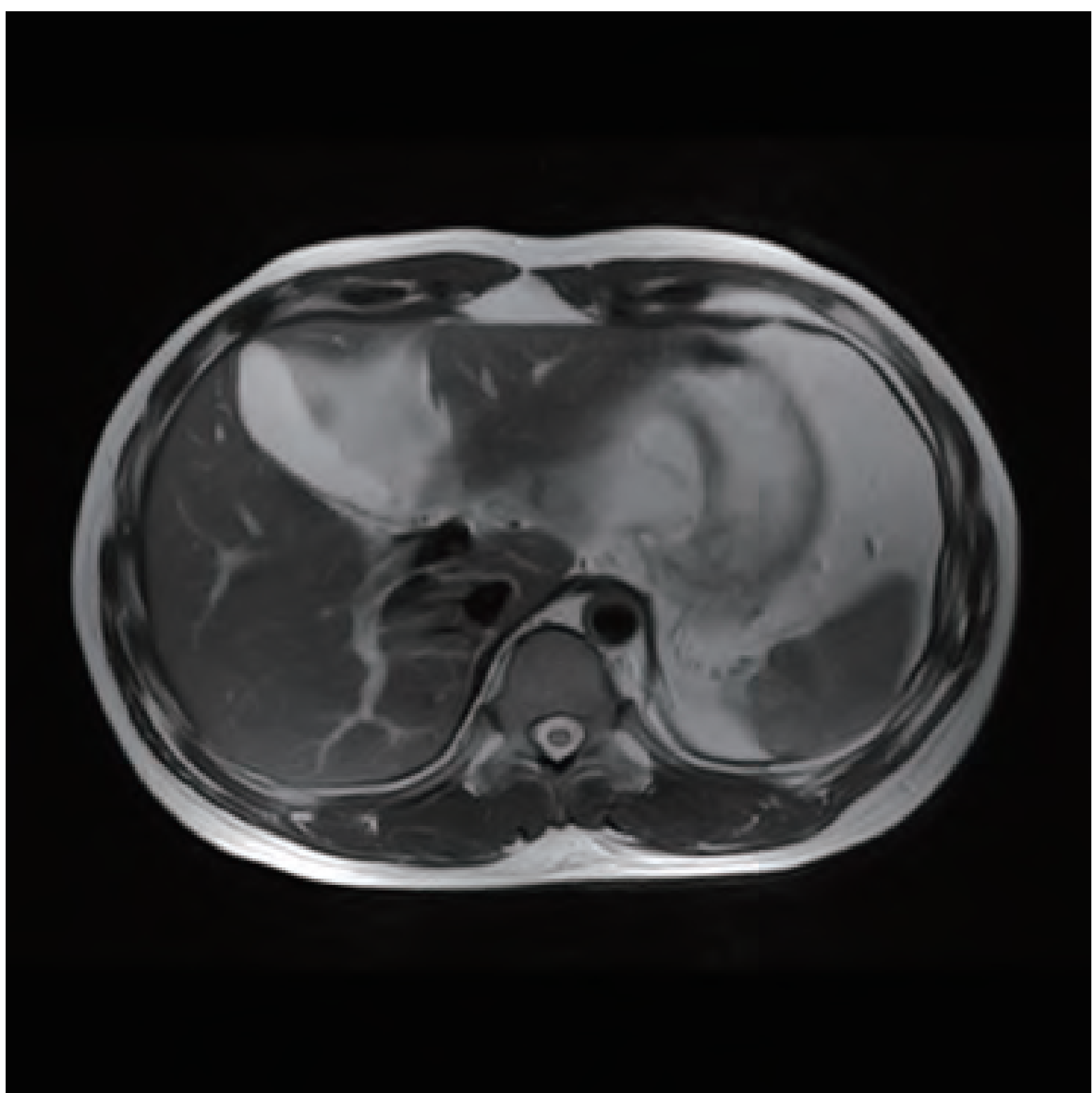
Dynamic Enhancement & Substraction

ELK-Diversity Mark 2

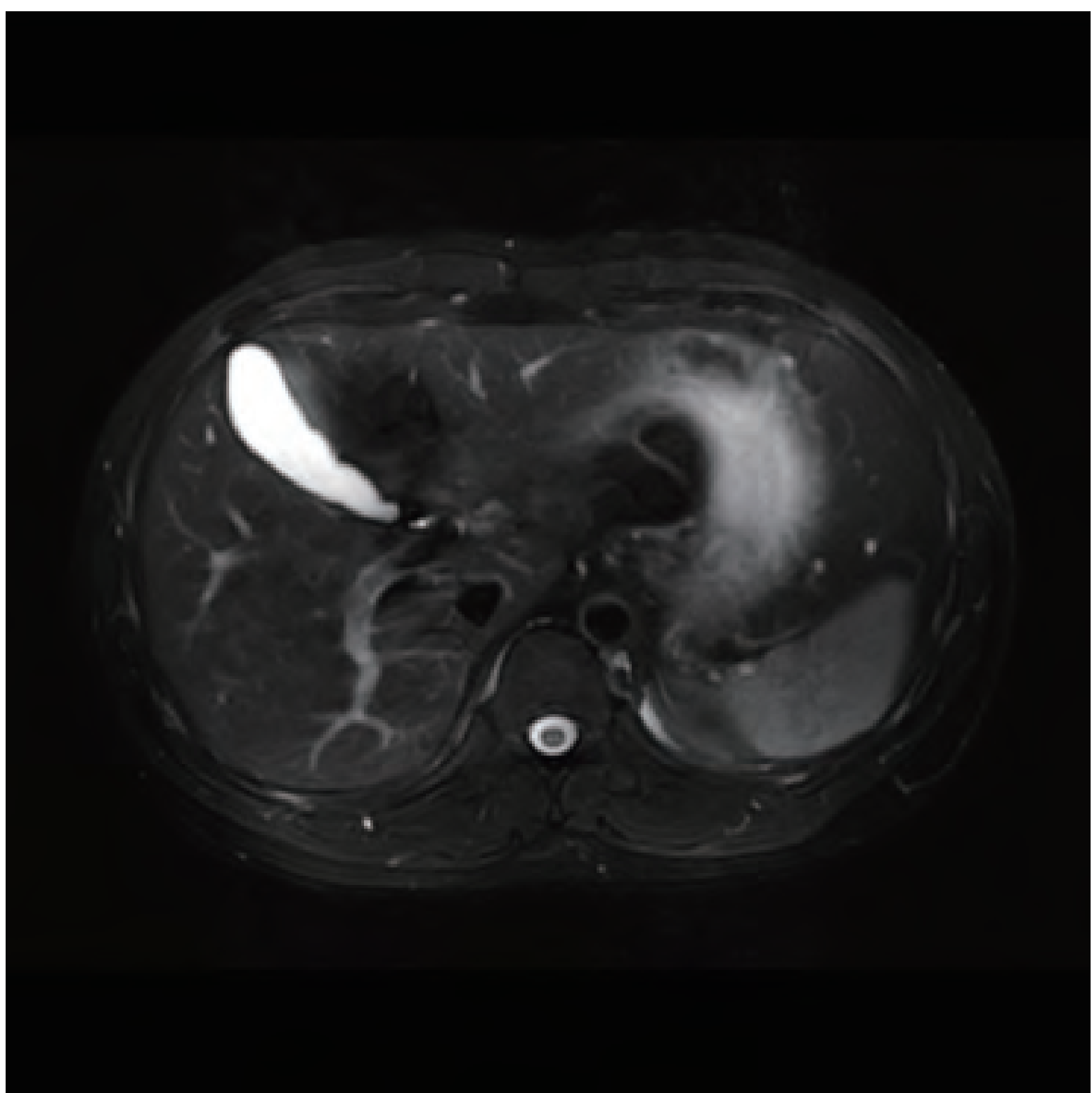
Abodmen



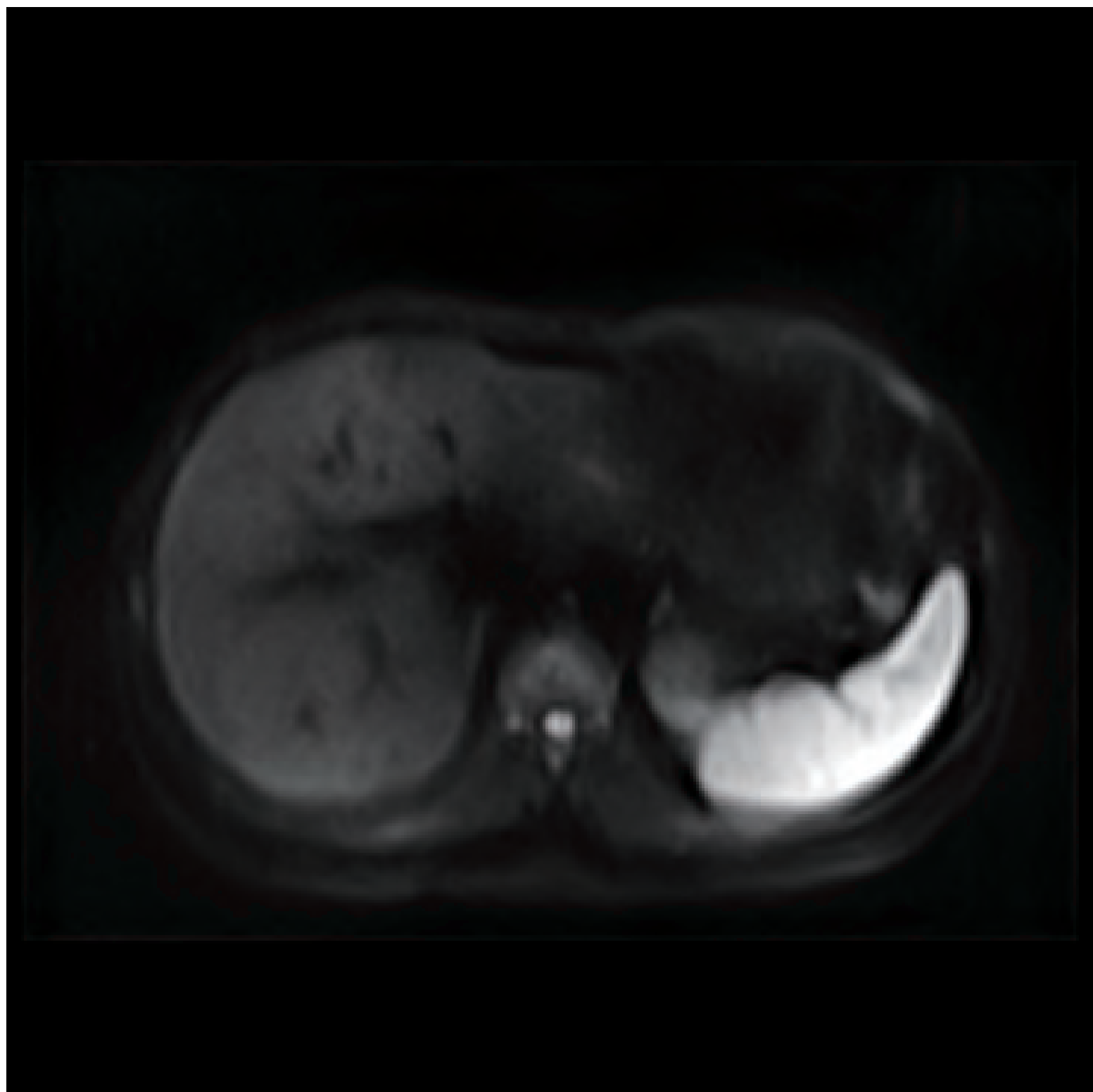
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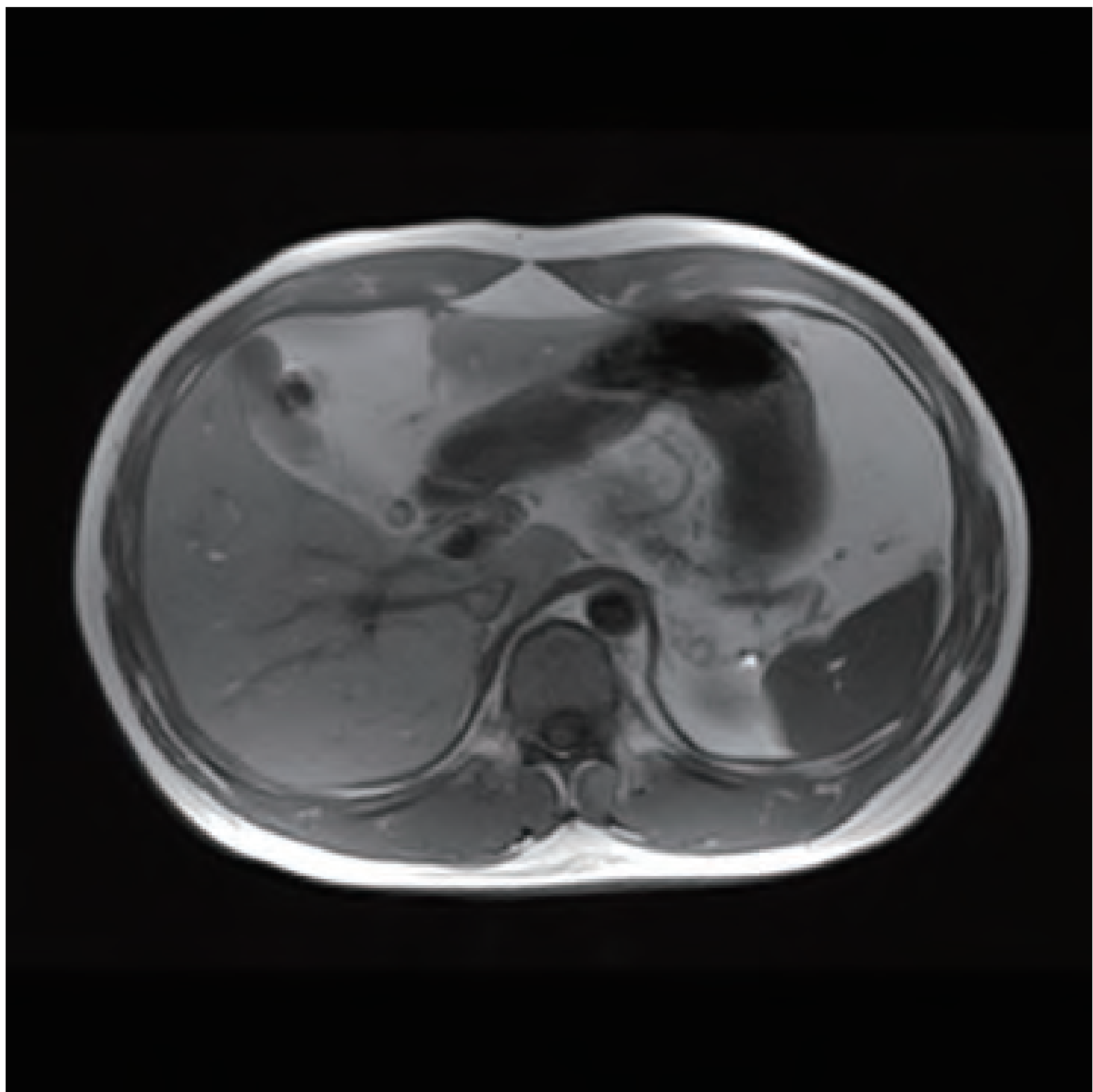
T2WI



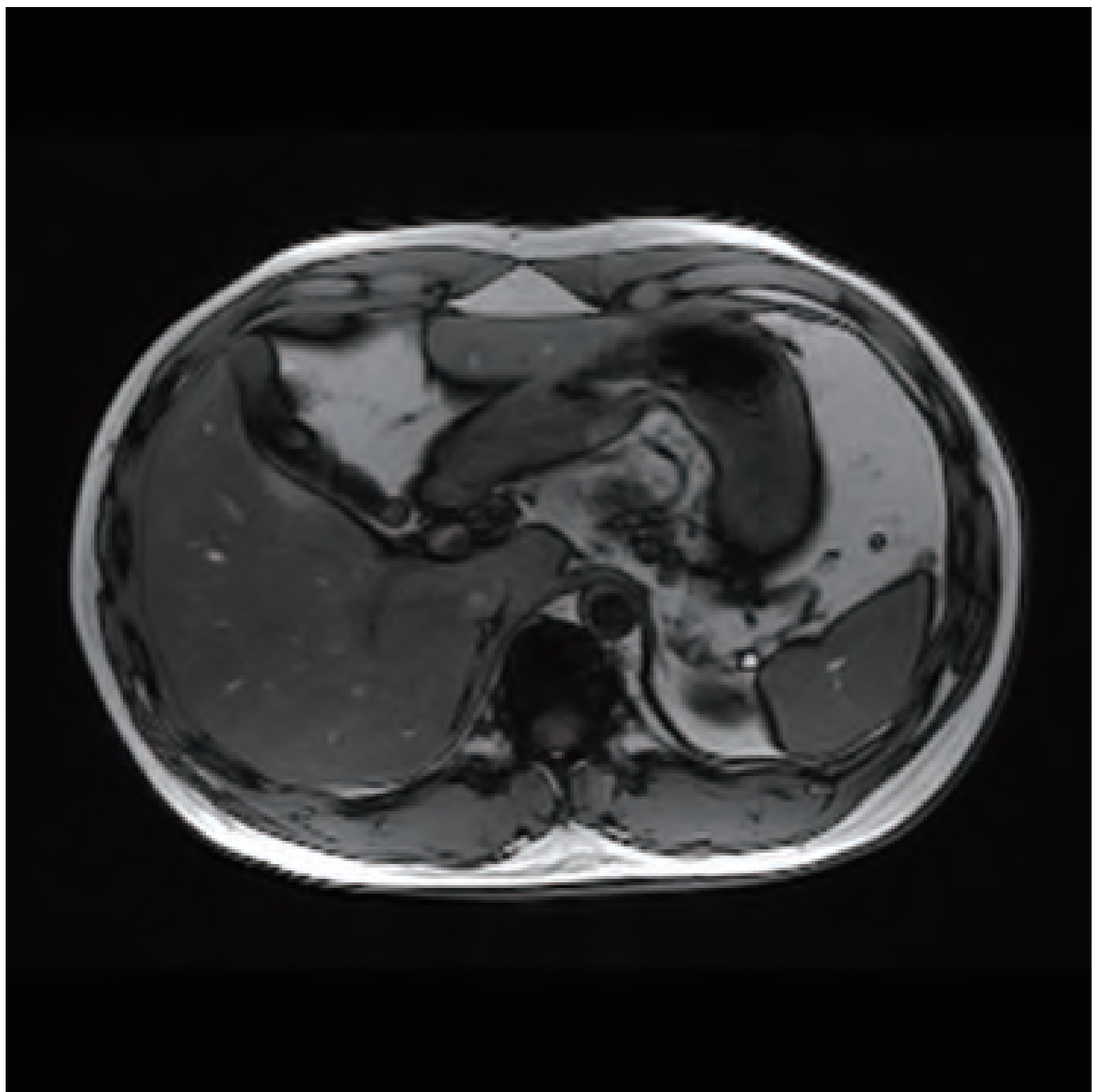
a-SPAIR



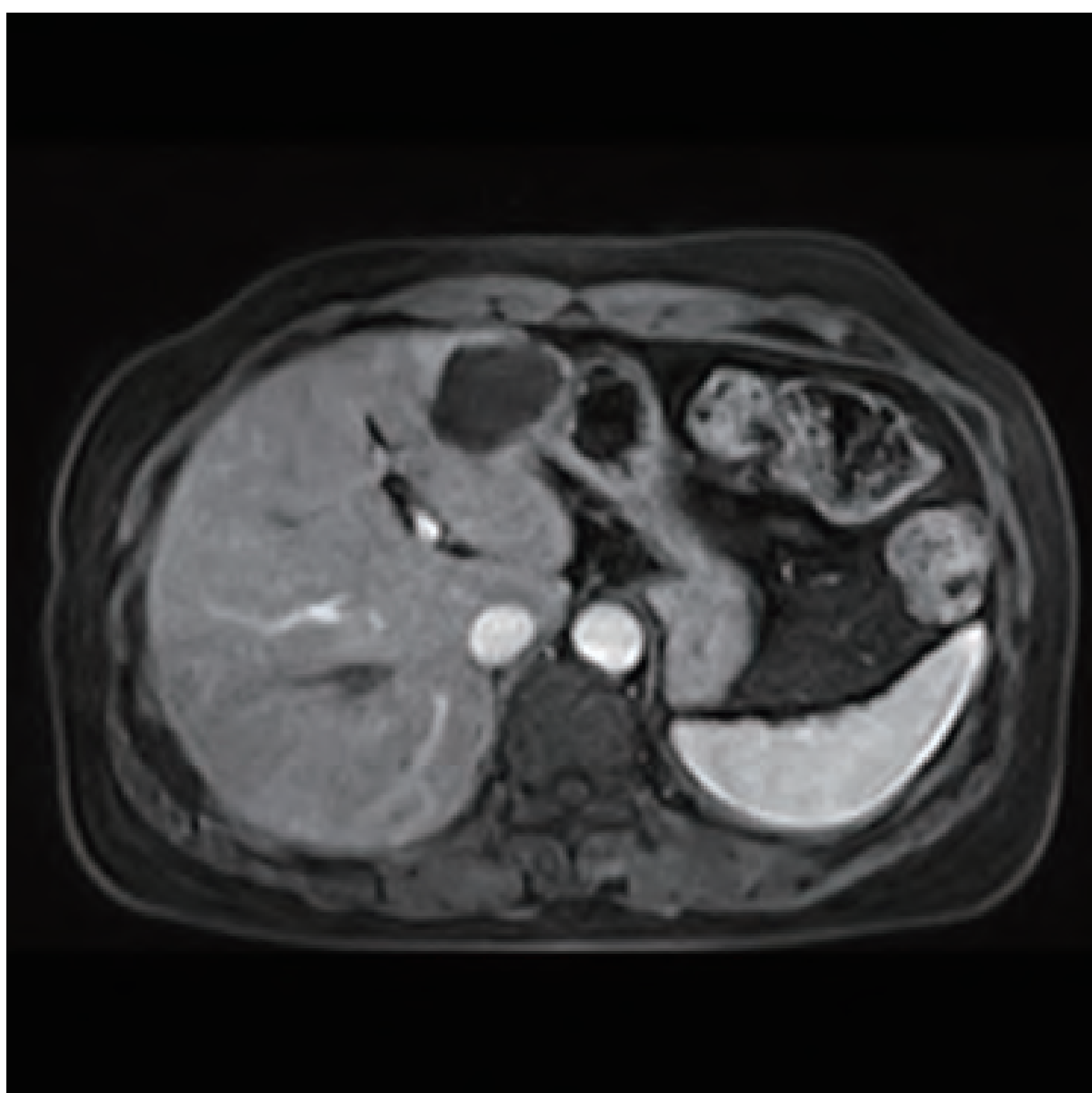
DWI



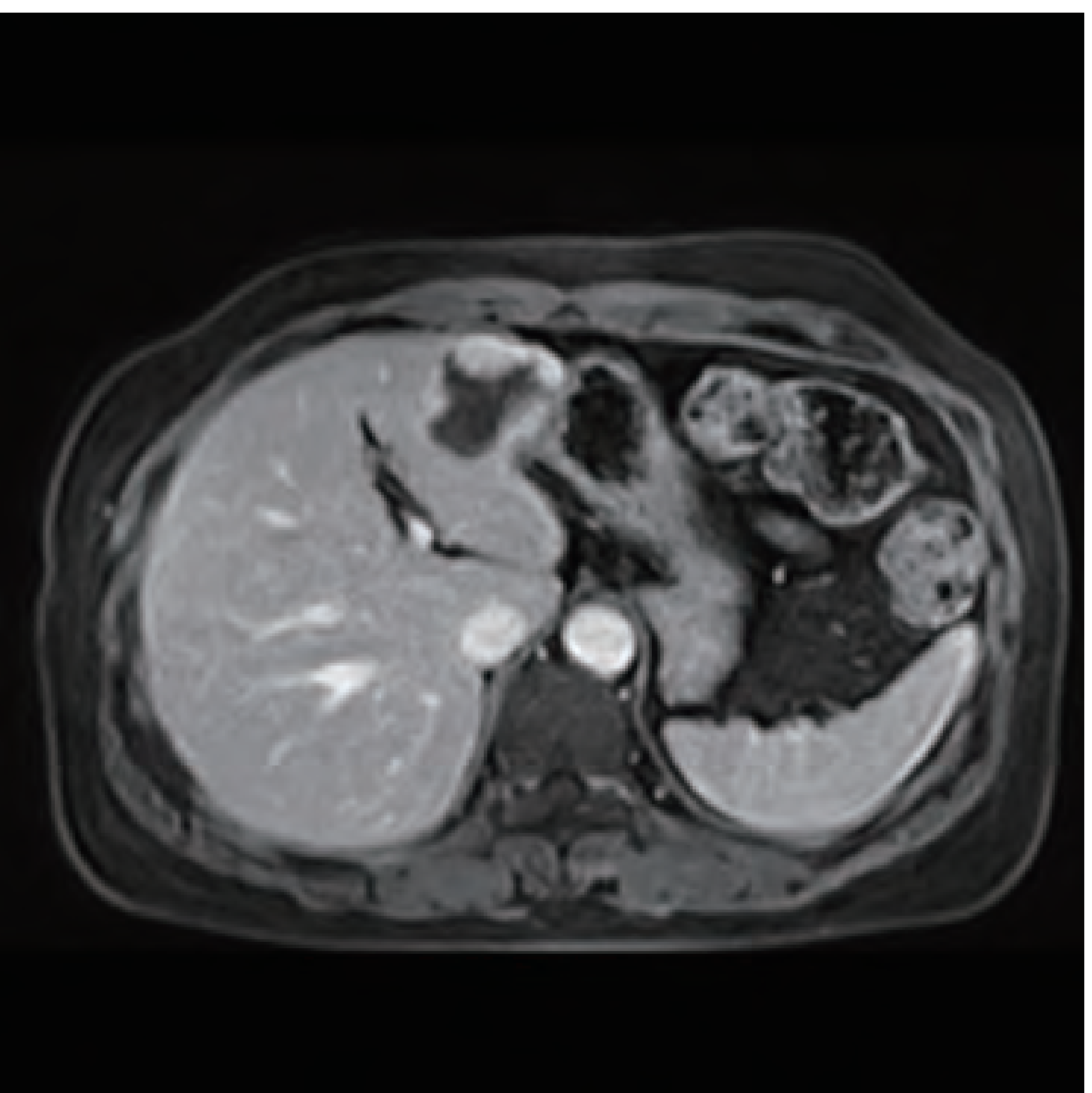
In Phase



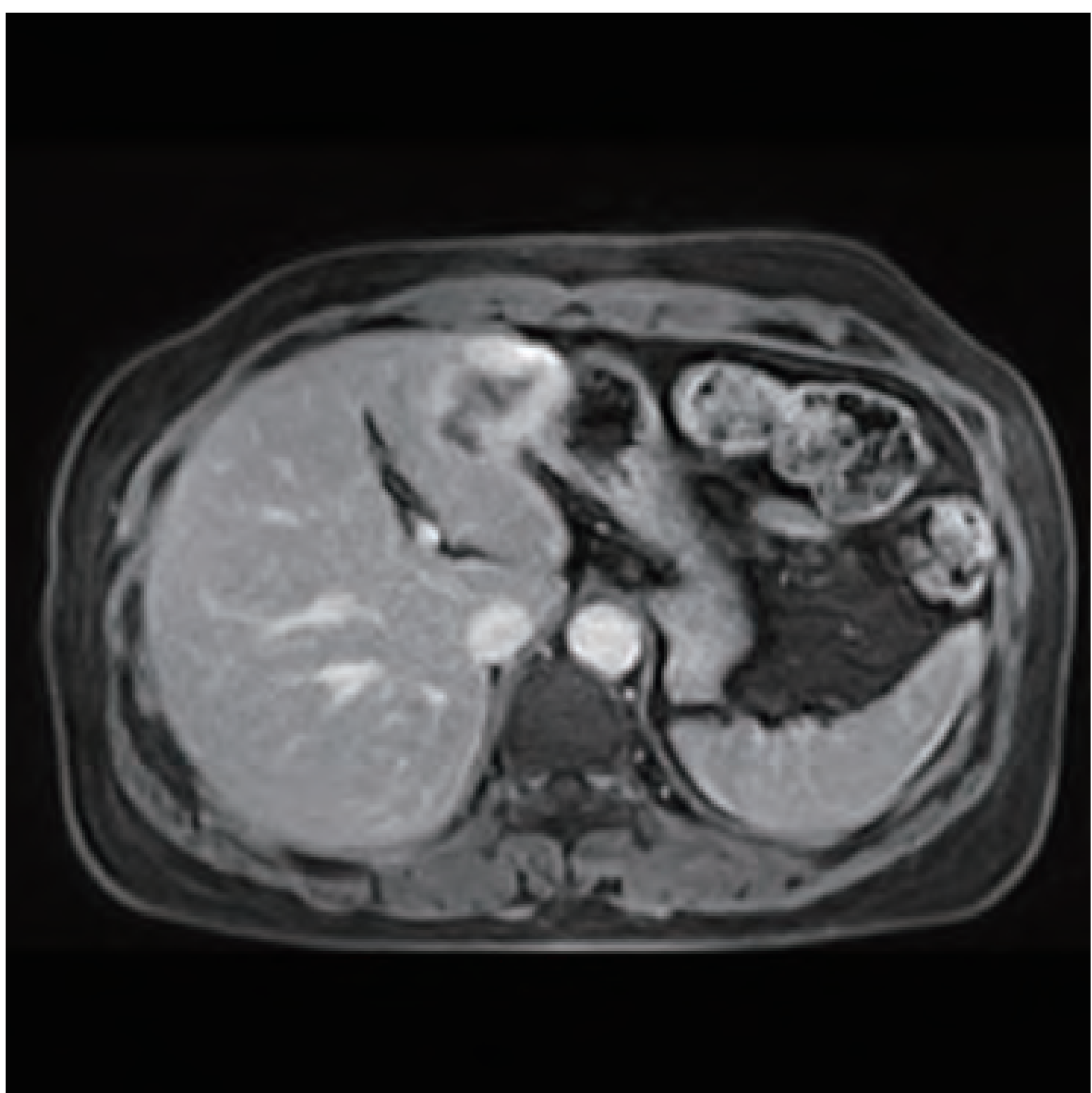
Out Phase



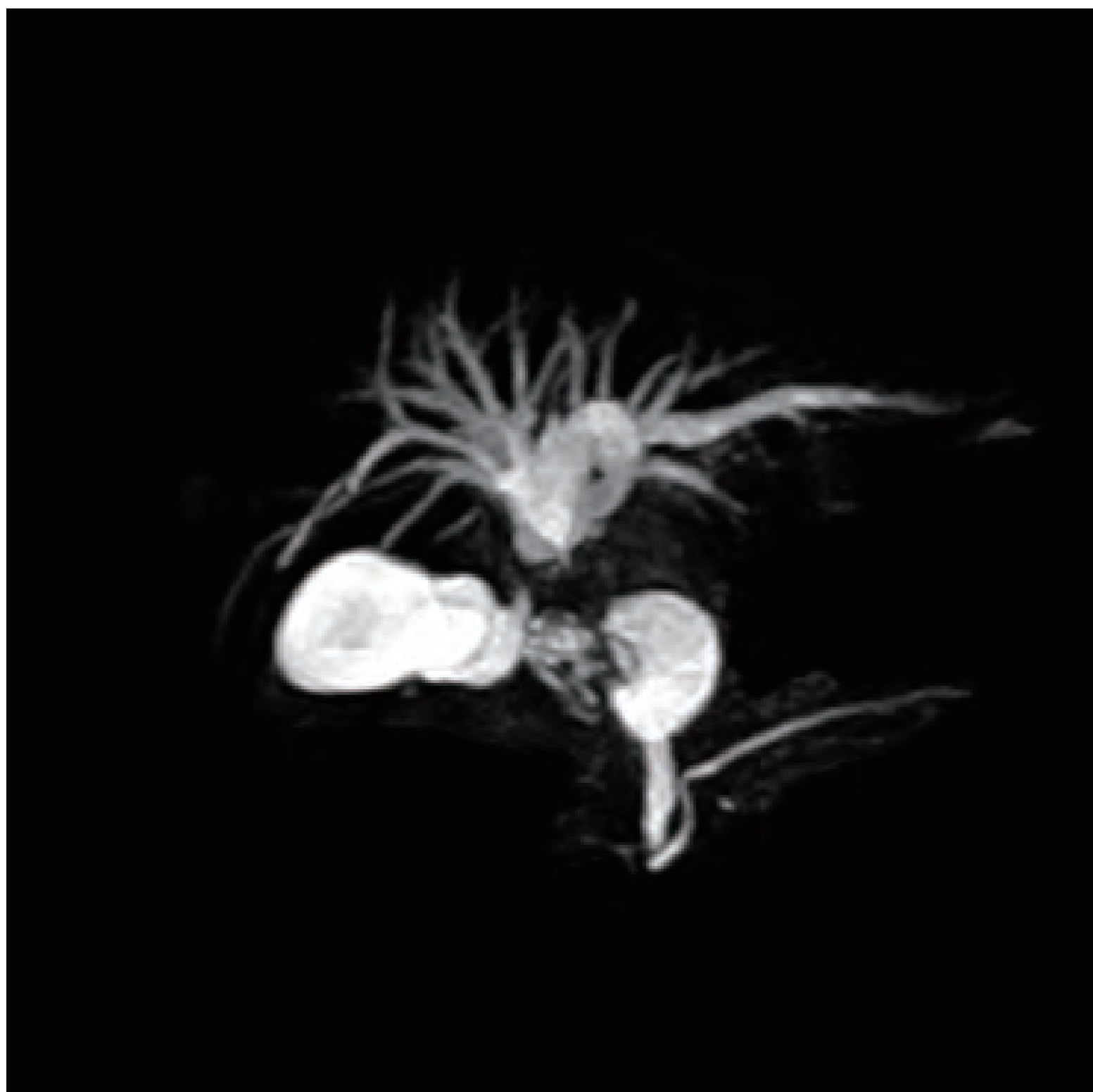
DE Phase I



DE Phase II



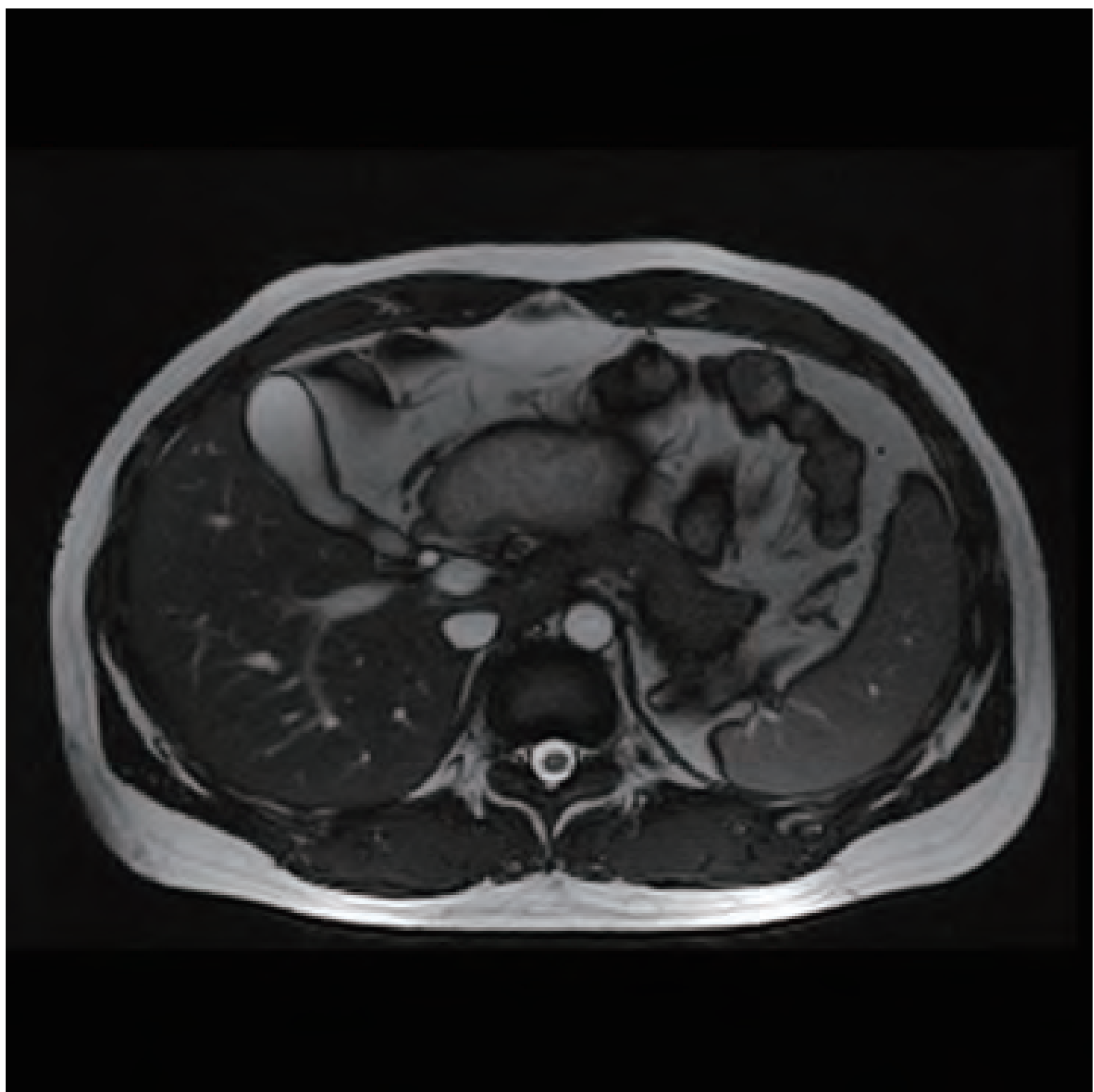
DE Phase III



MRCP



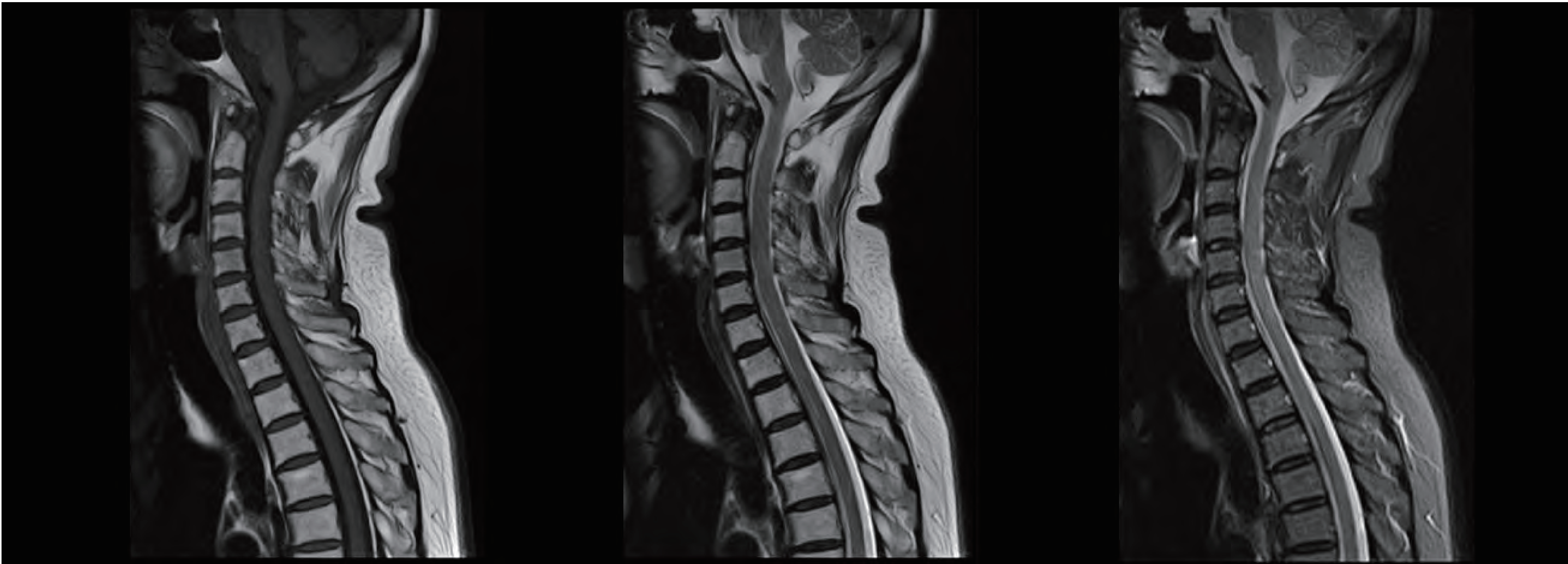
MRU



True-FISP

ELK-Diversity Mark 2

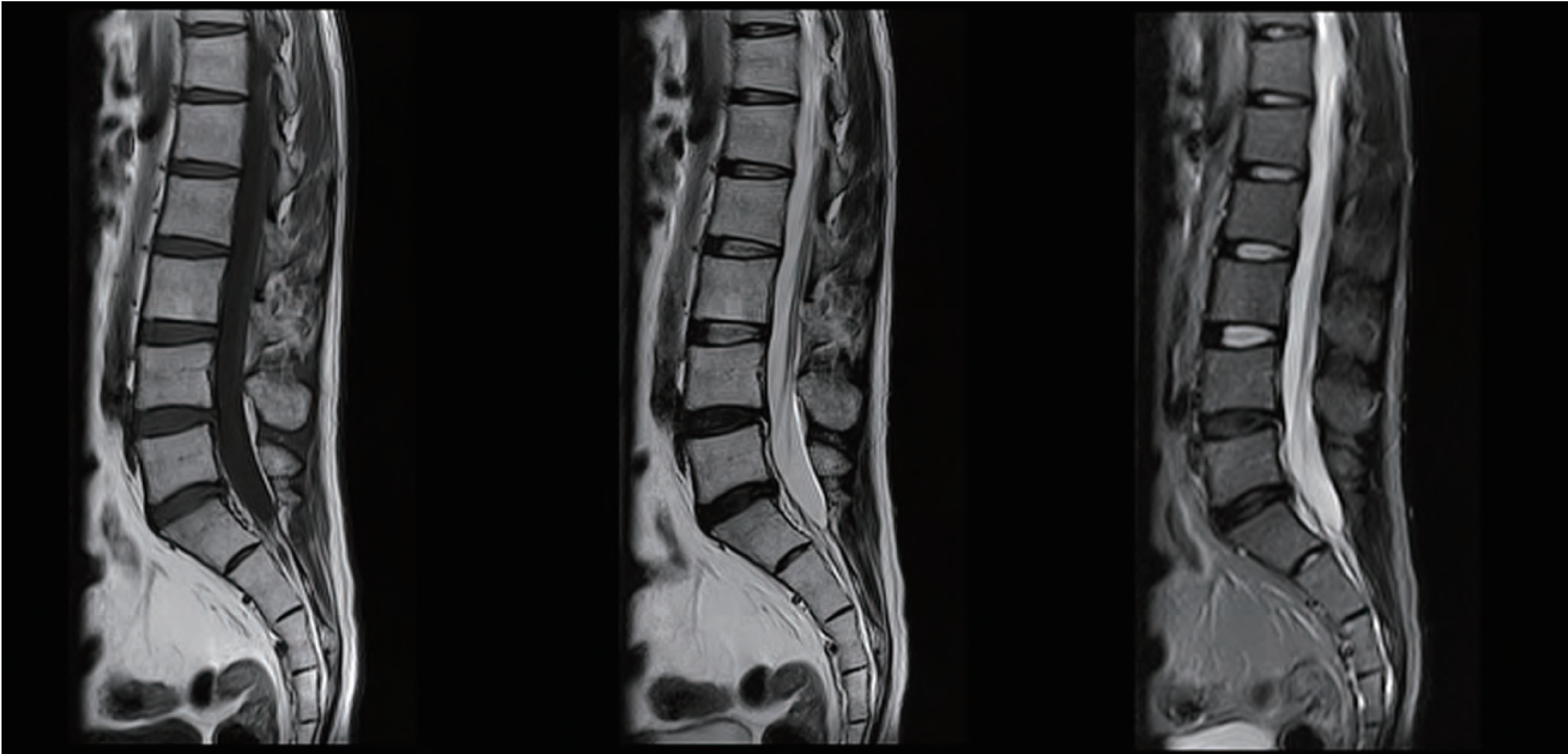
Spine



T1WI

T2WI

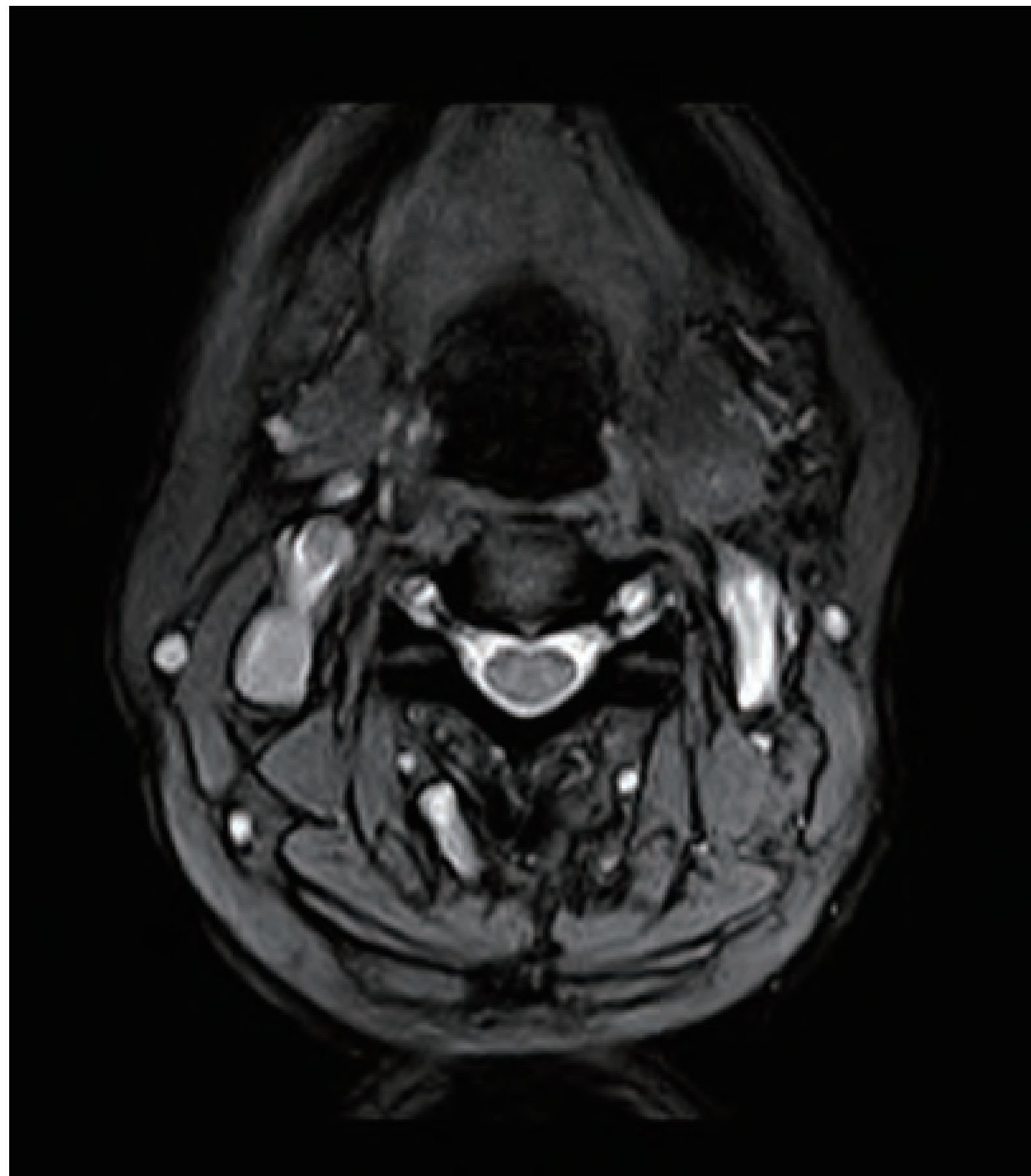
STIR



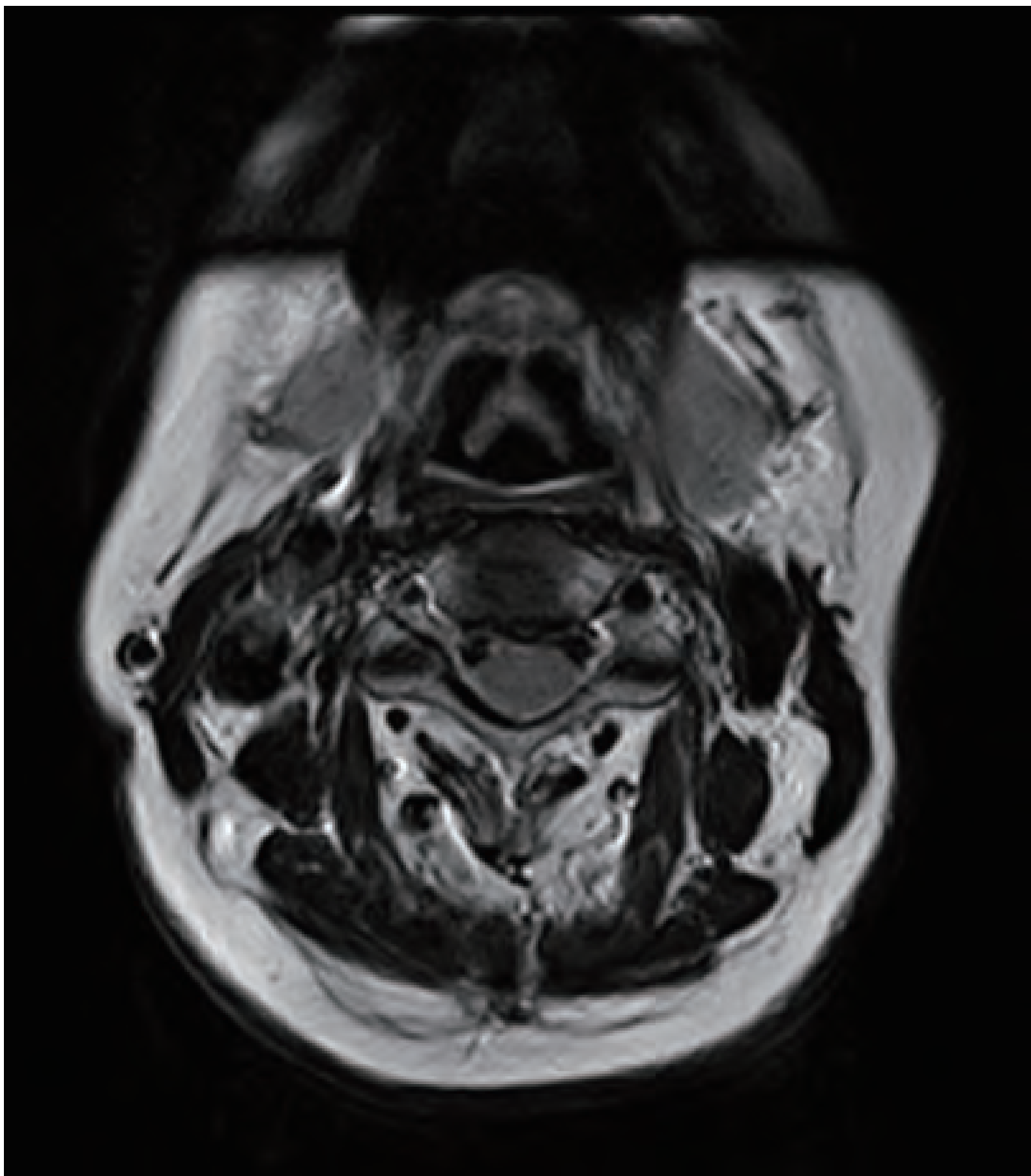
T1WI

T2WI

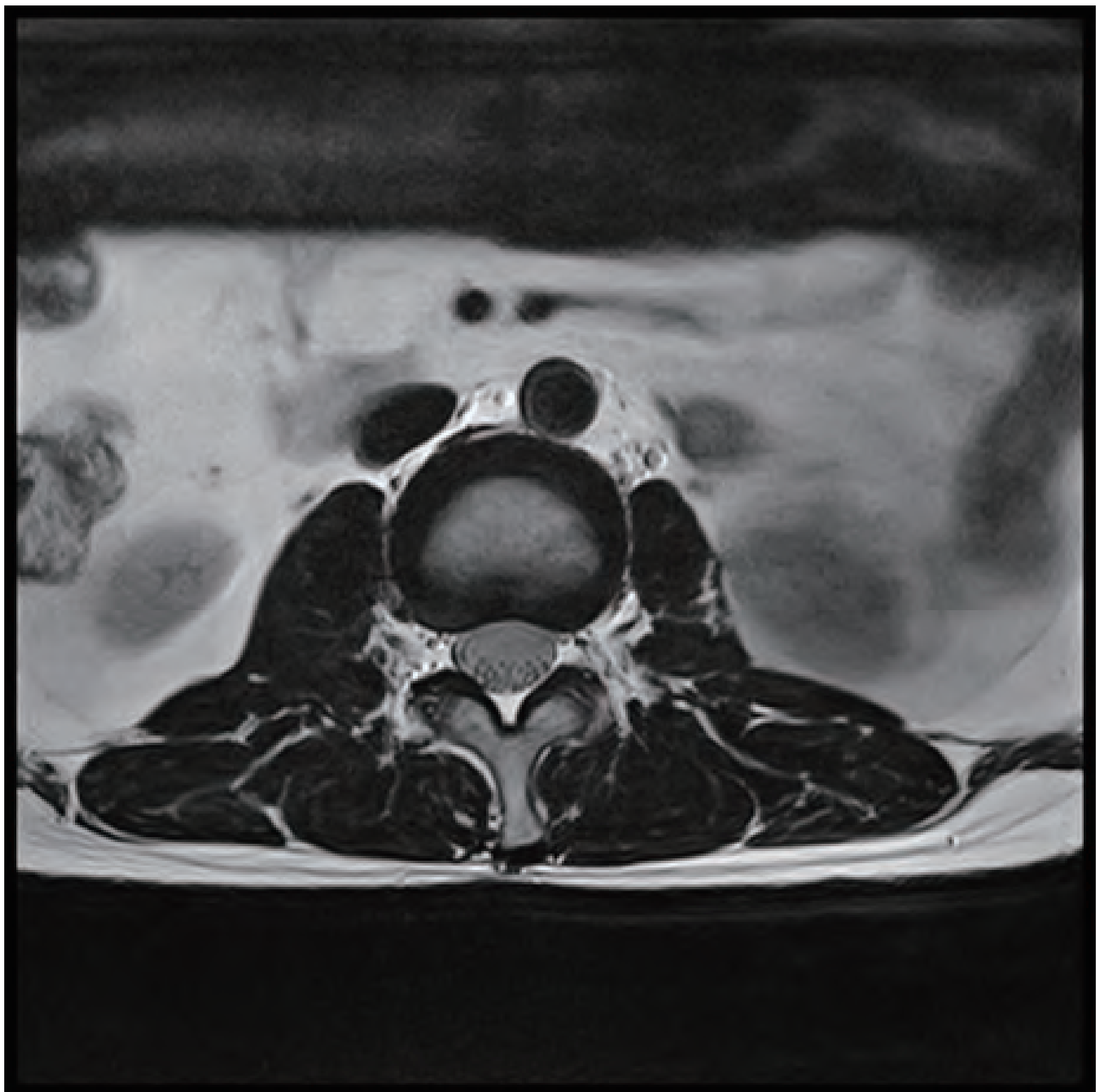
STIR



ME-T2*WI



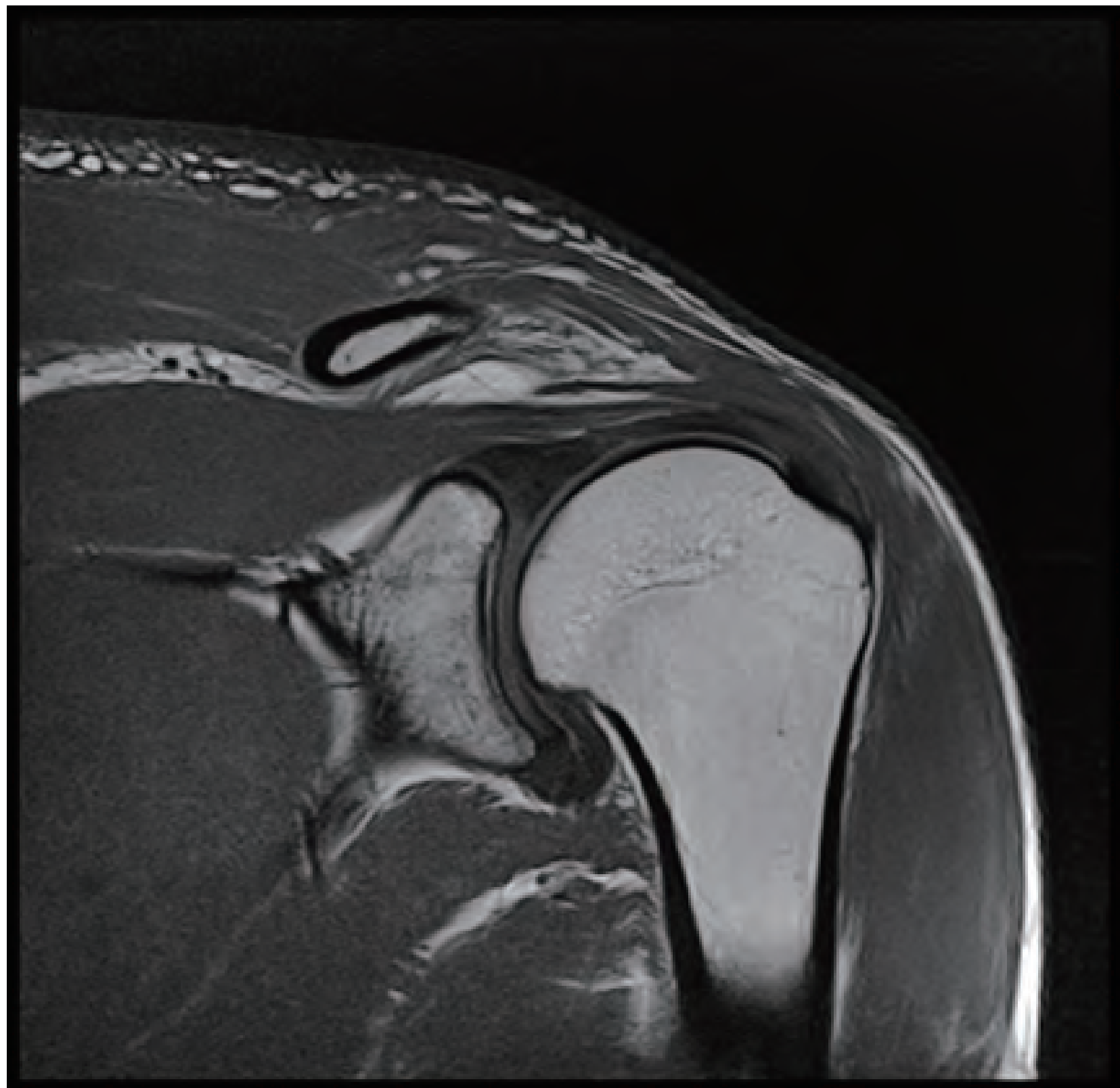
Tra-T2WI



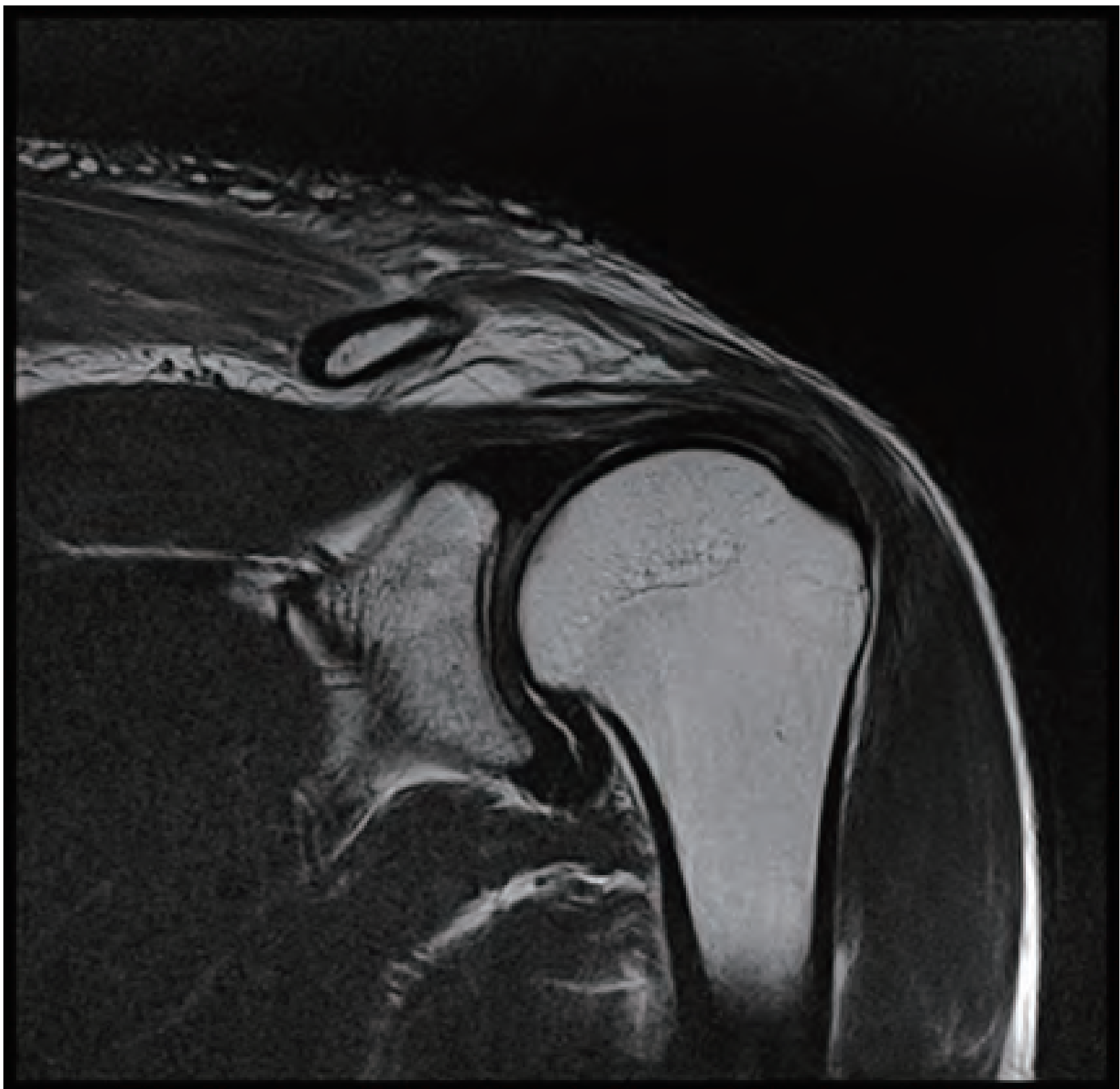
Tra-Intervertebral Disk

ELK-Diversity Mark 2

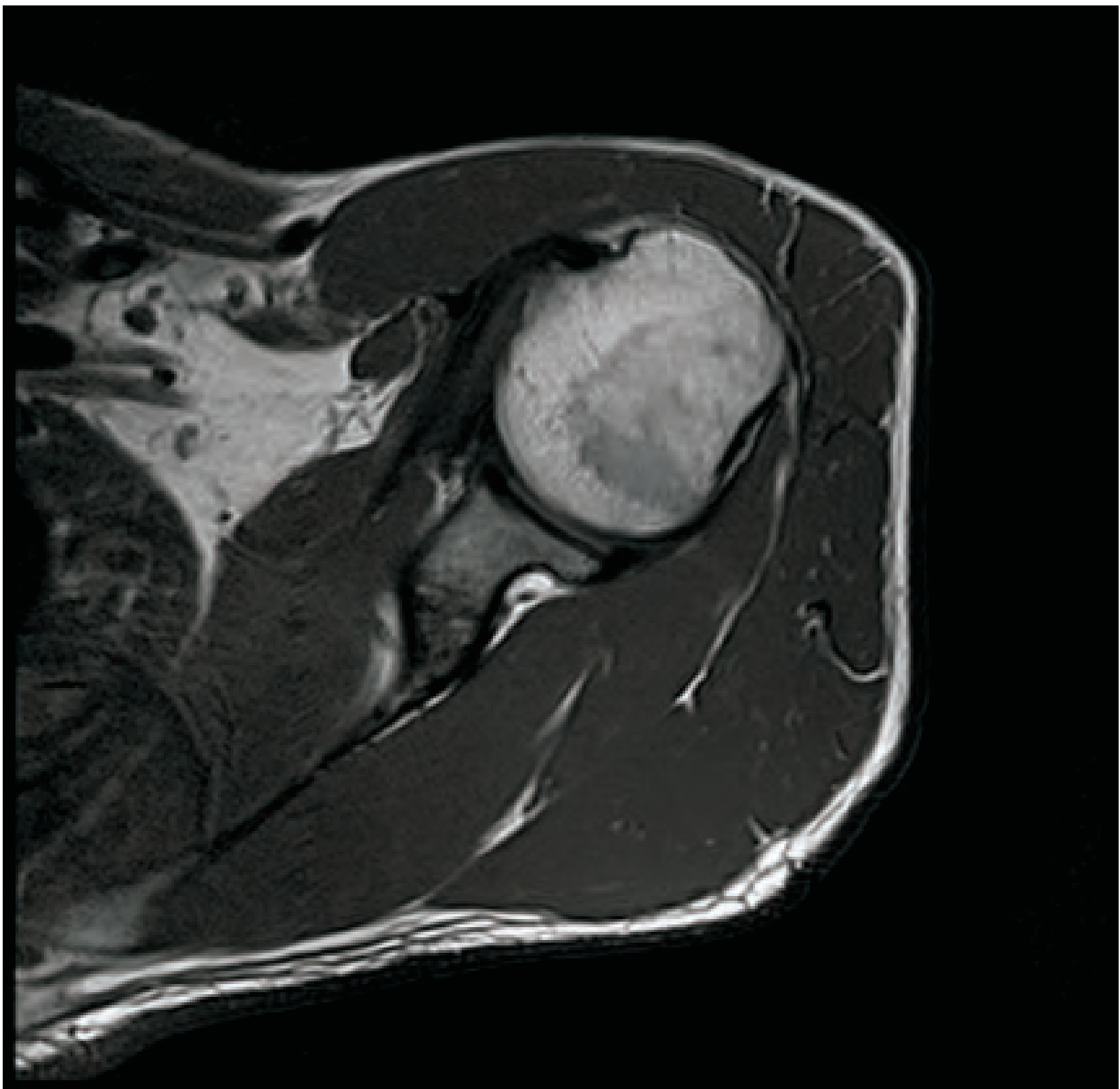
MSK



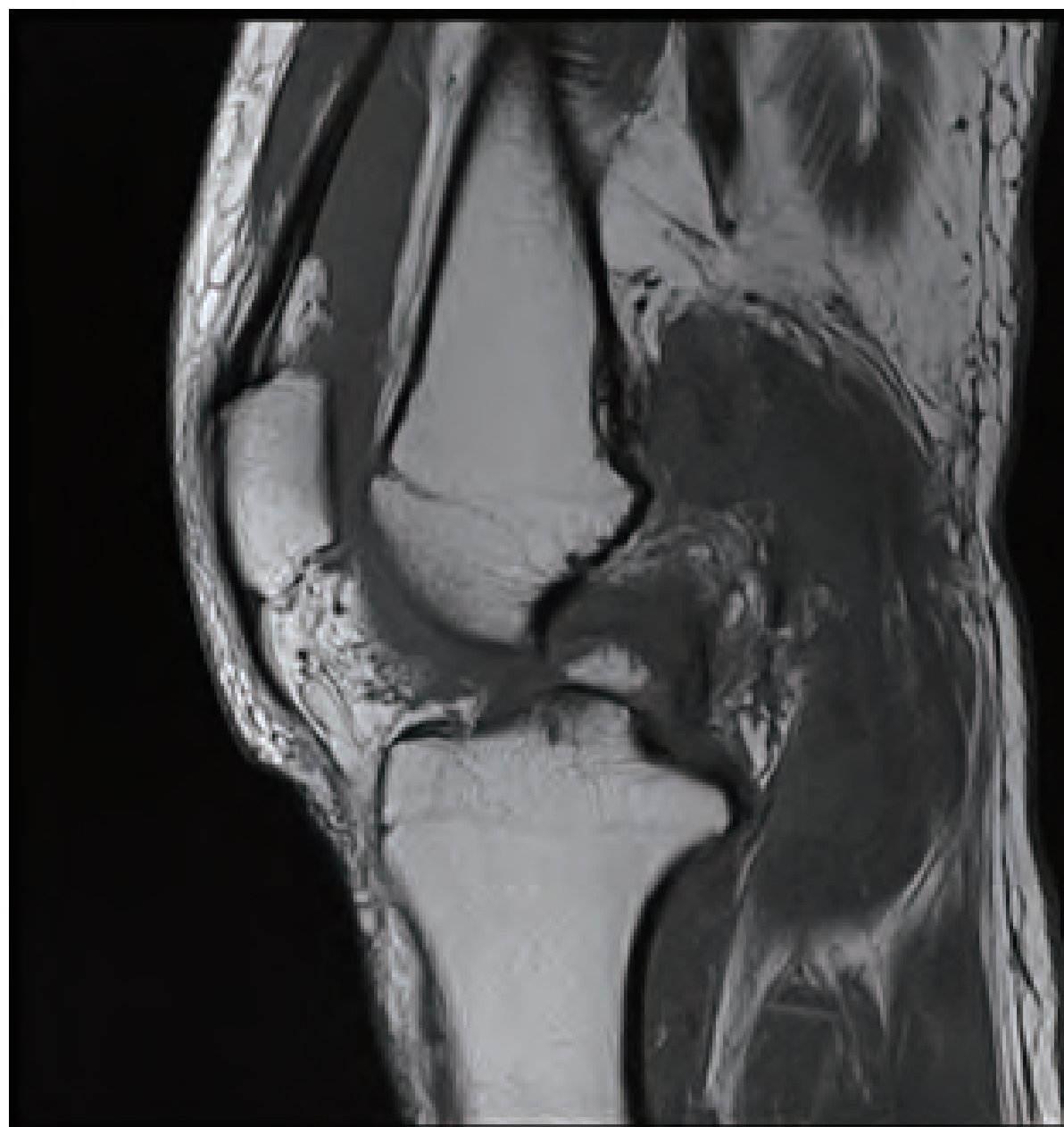
T1WI



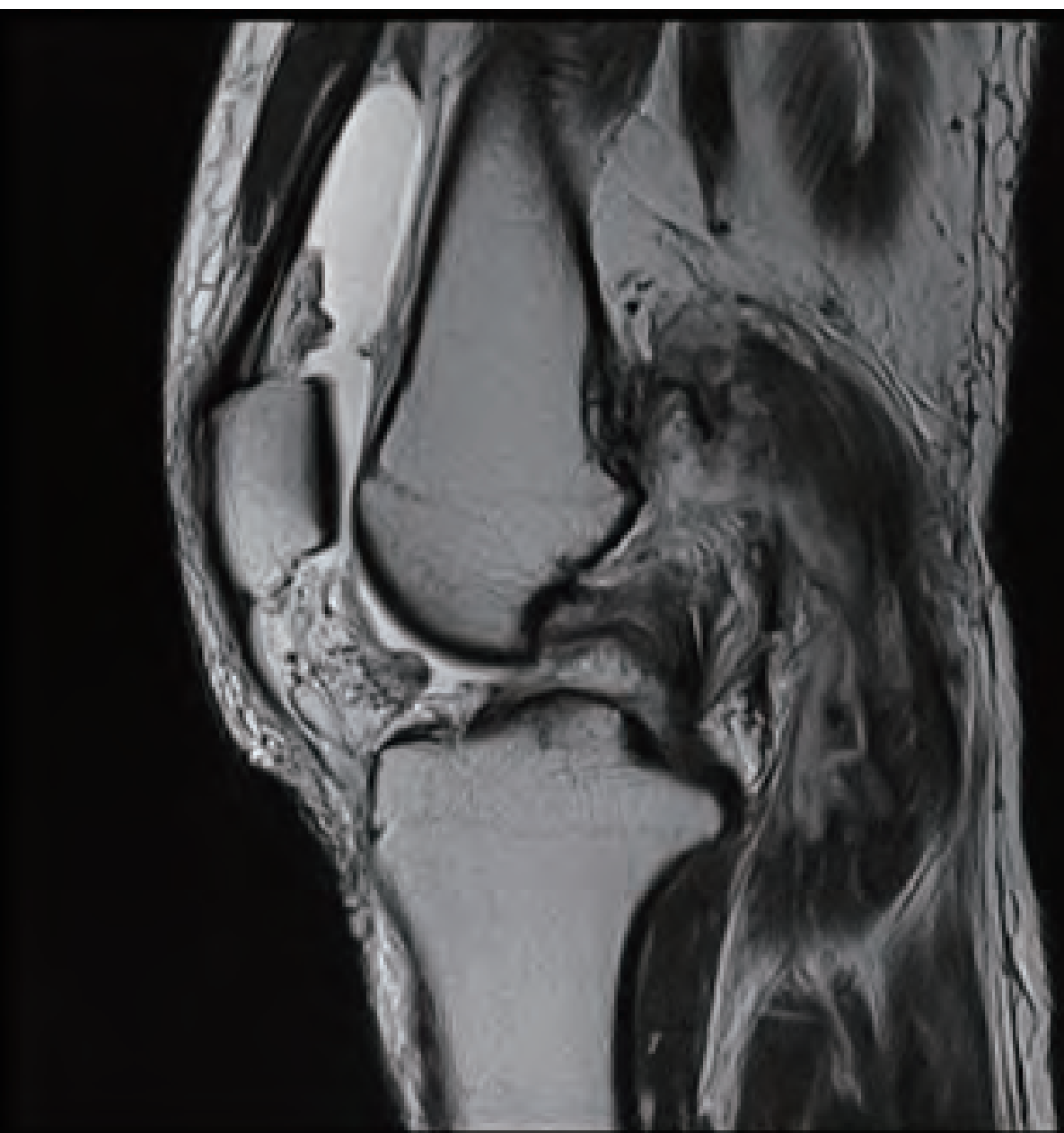
T2WI



T2WI



T1WI



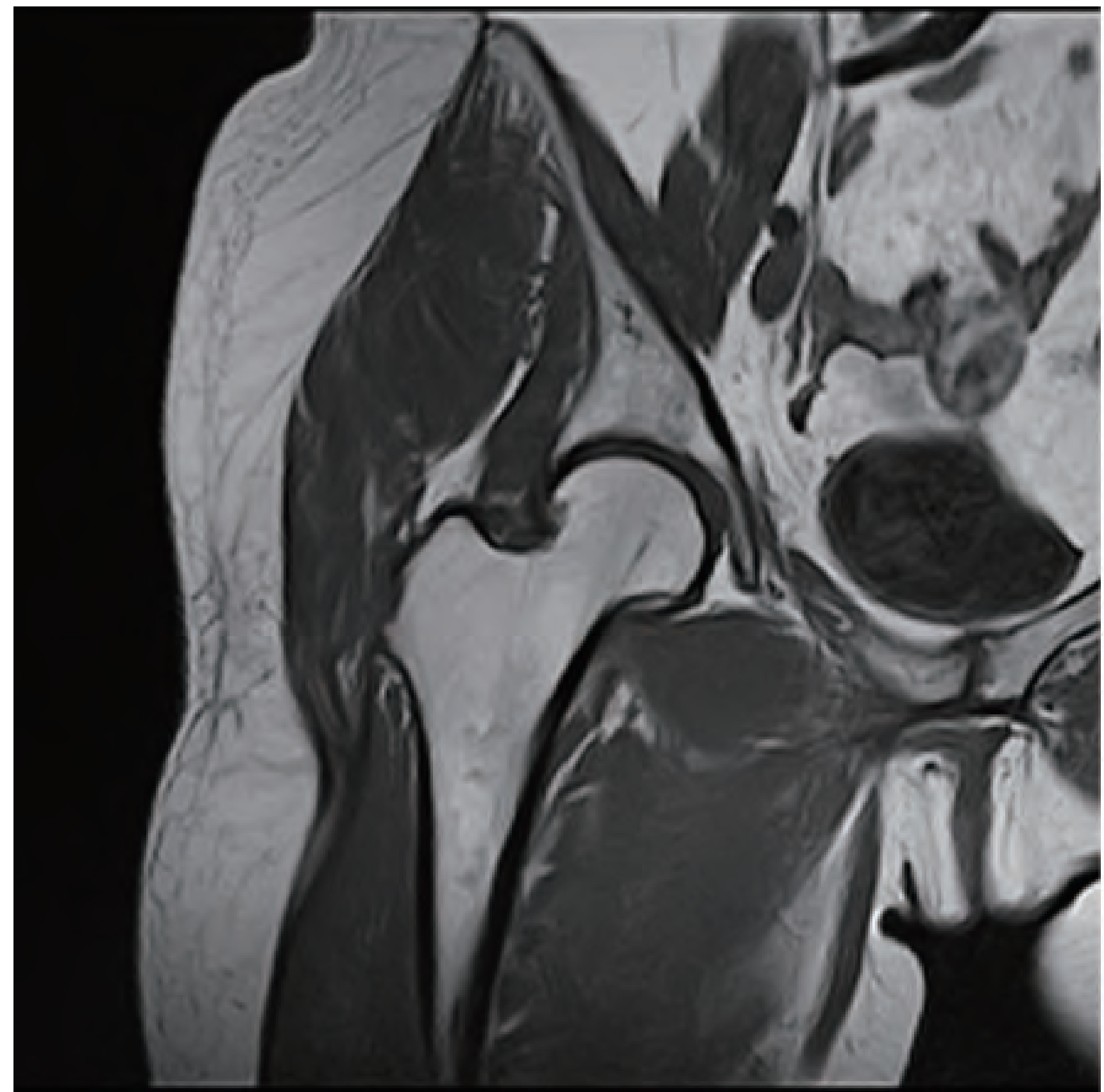
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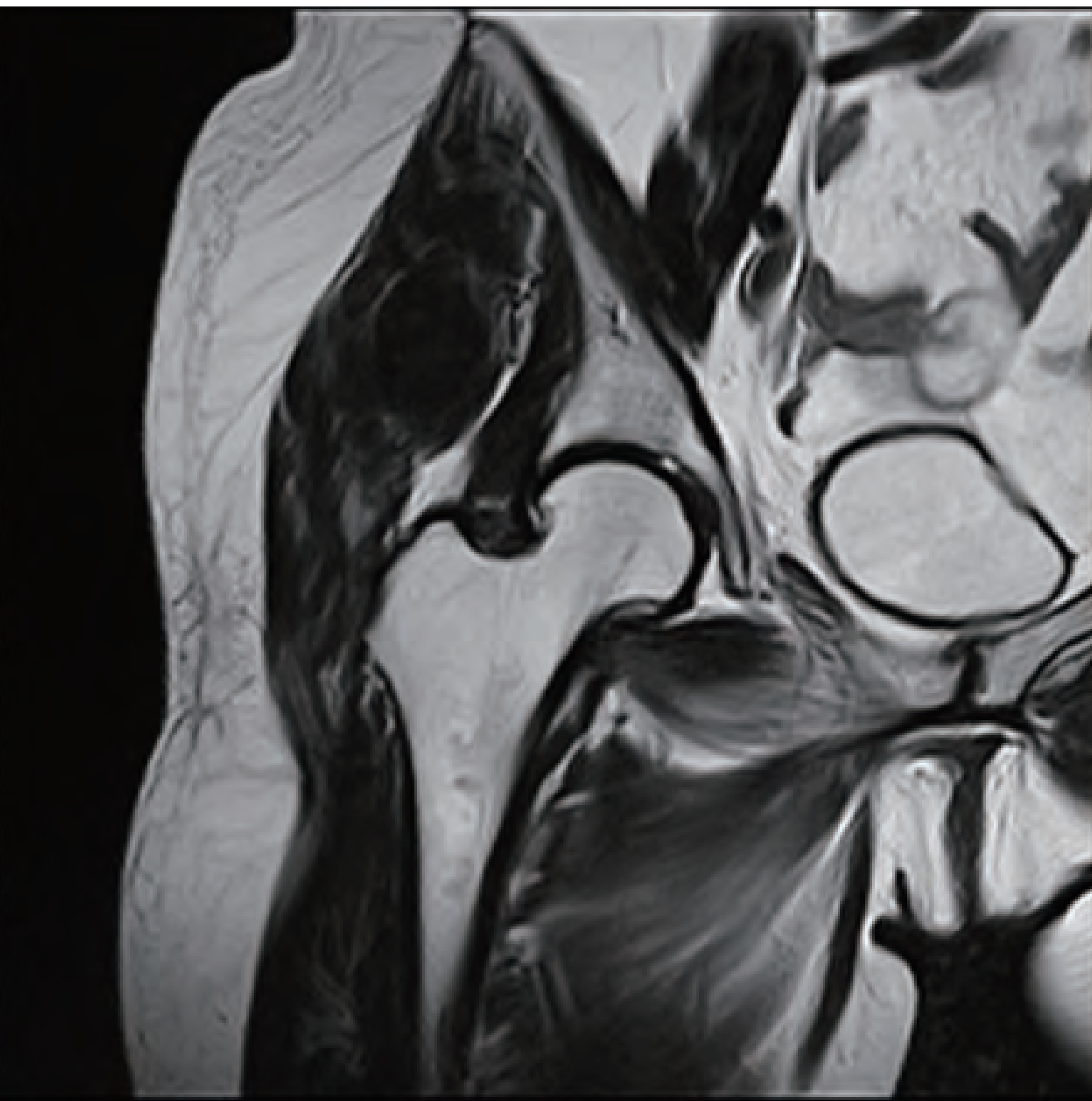
PD-FS



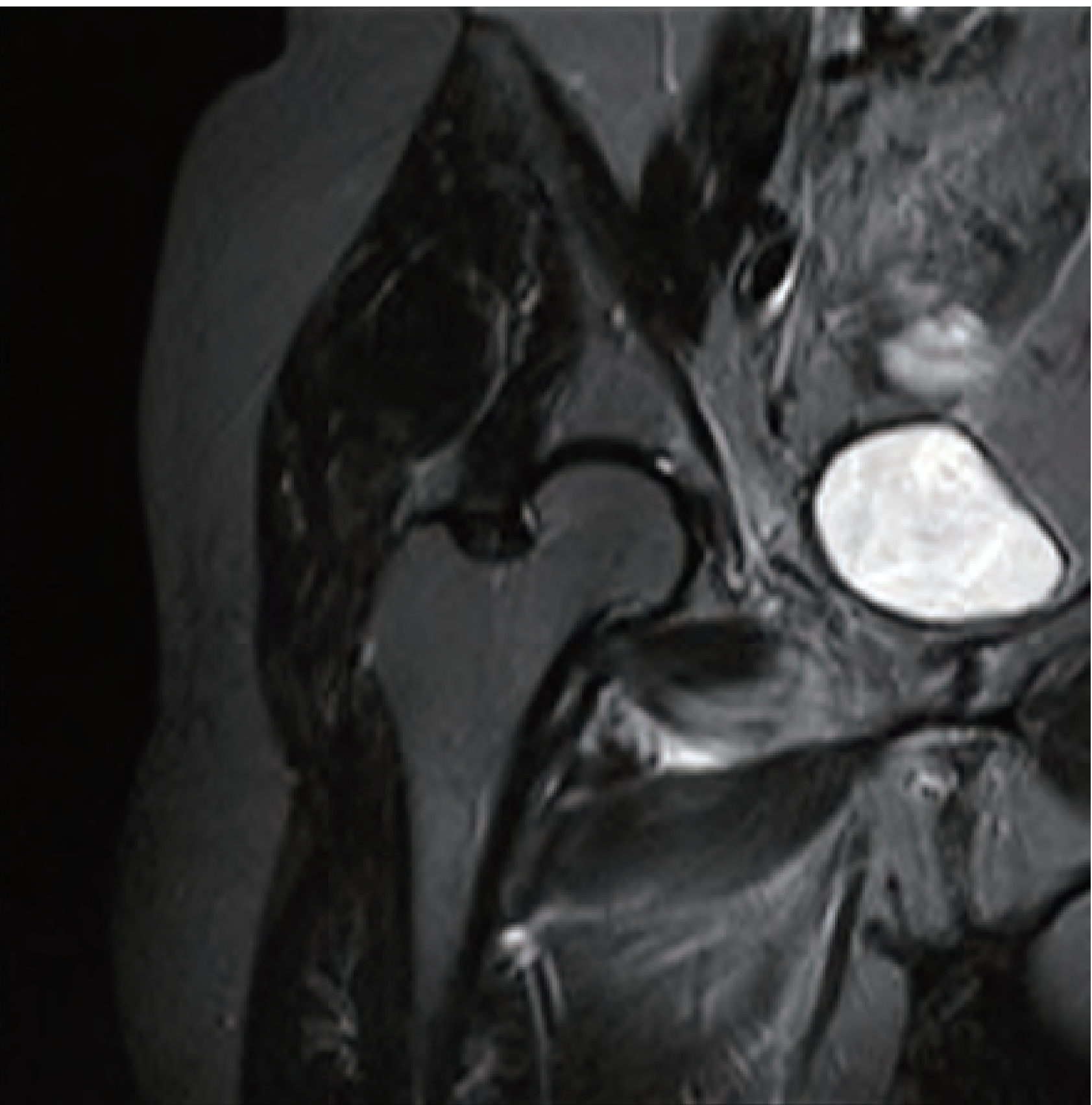
WE, THK=1.5mm



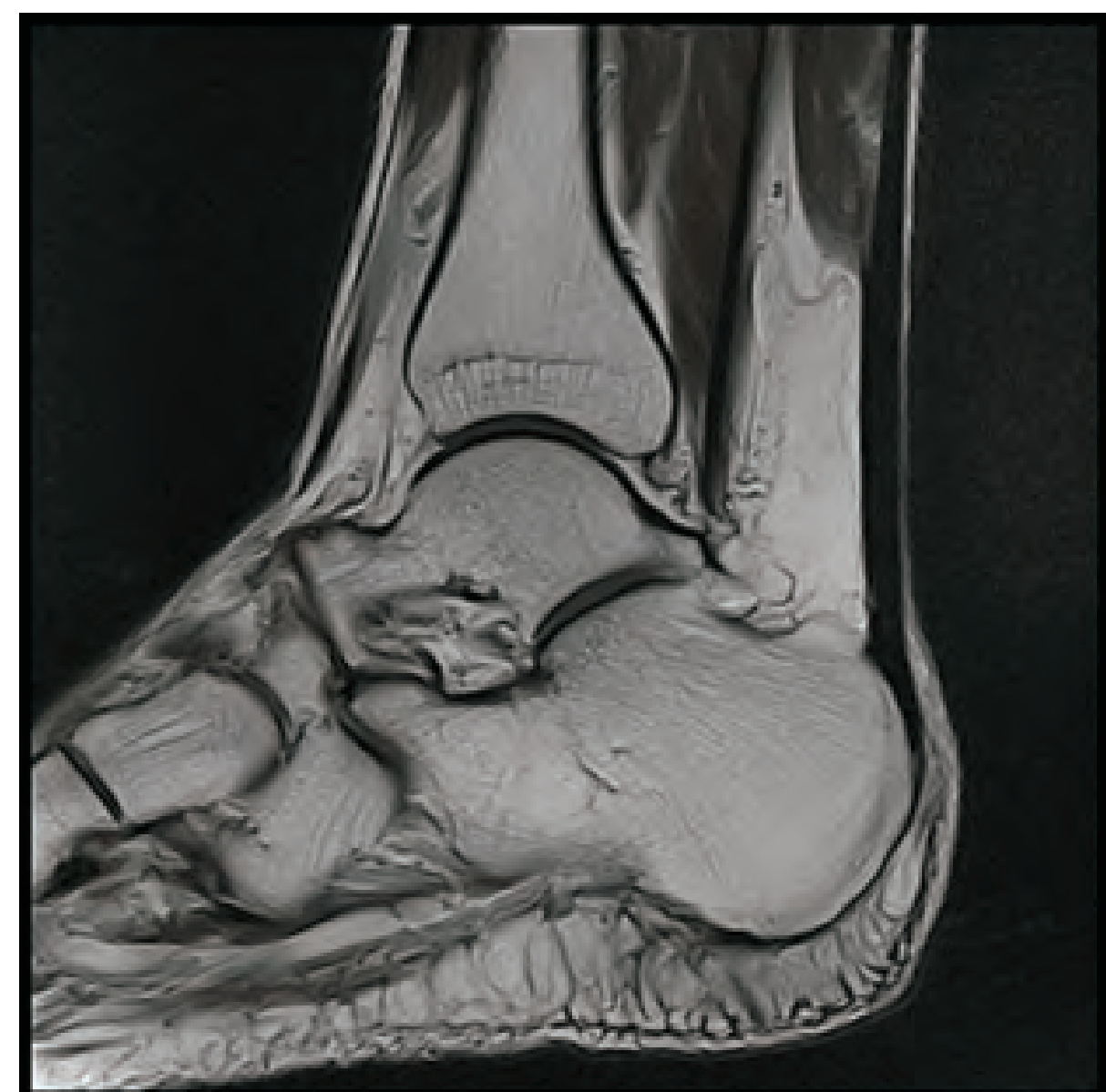
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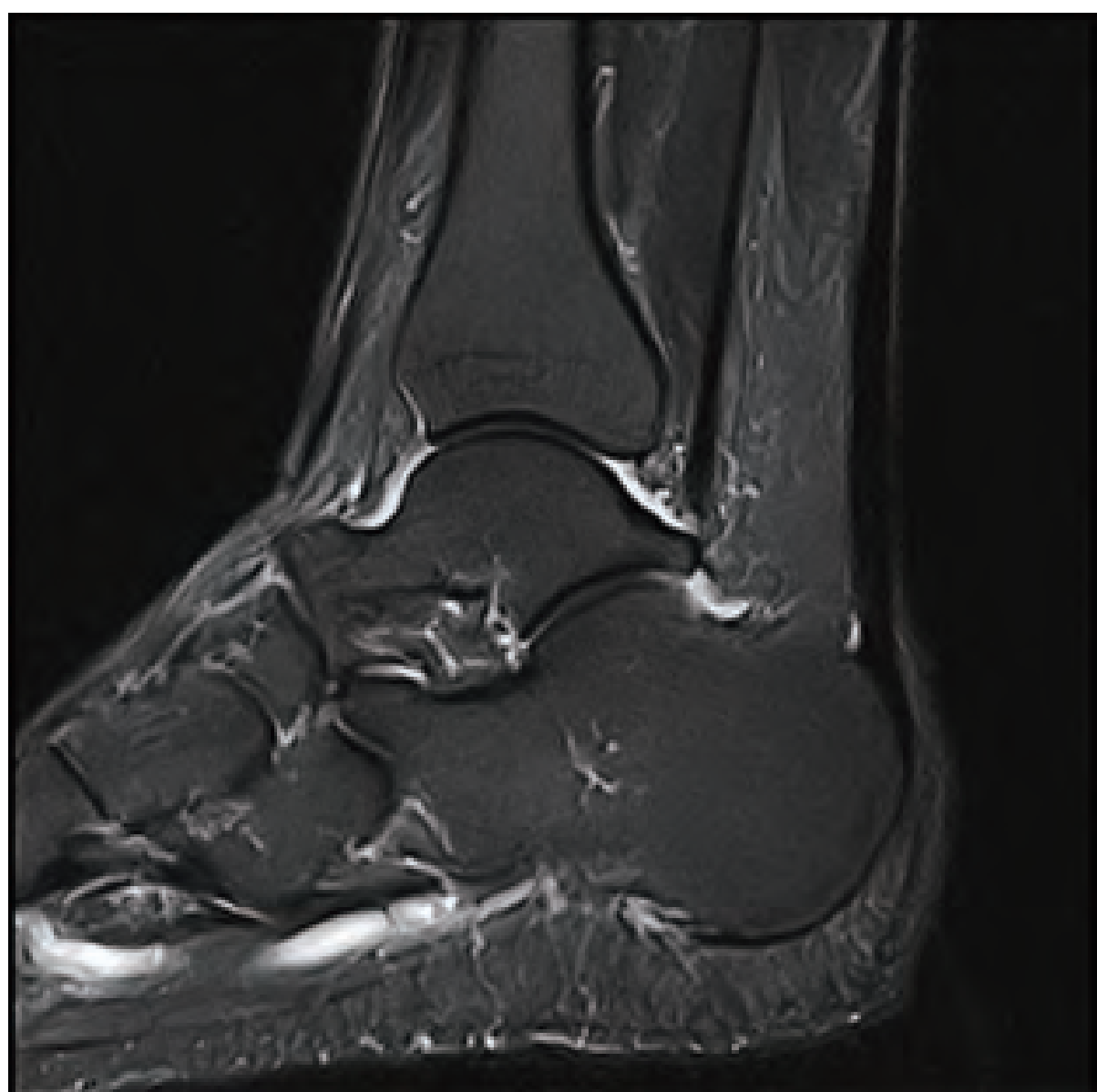
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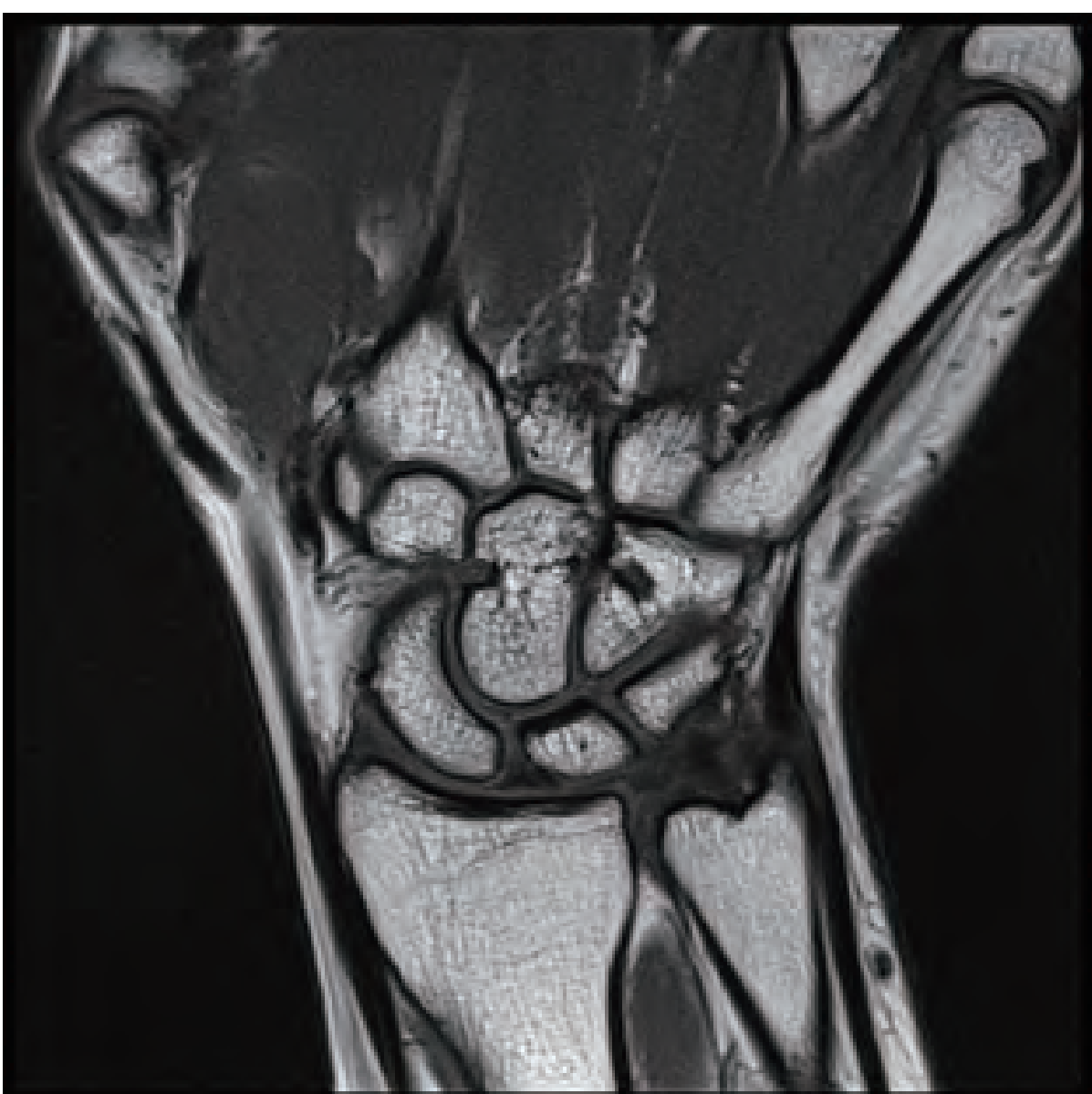
STIR



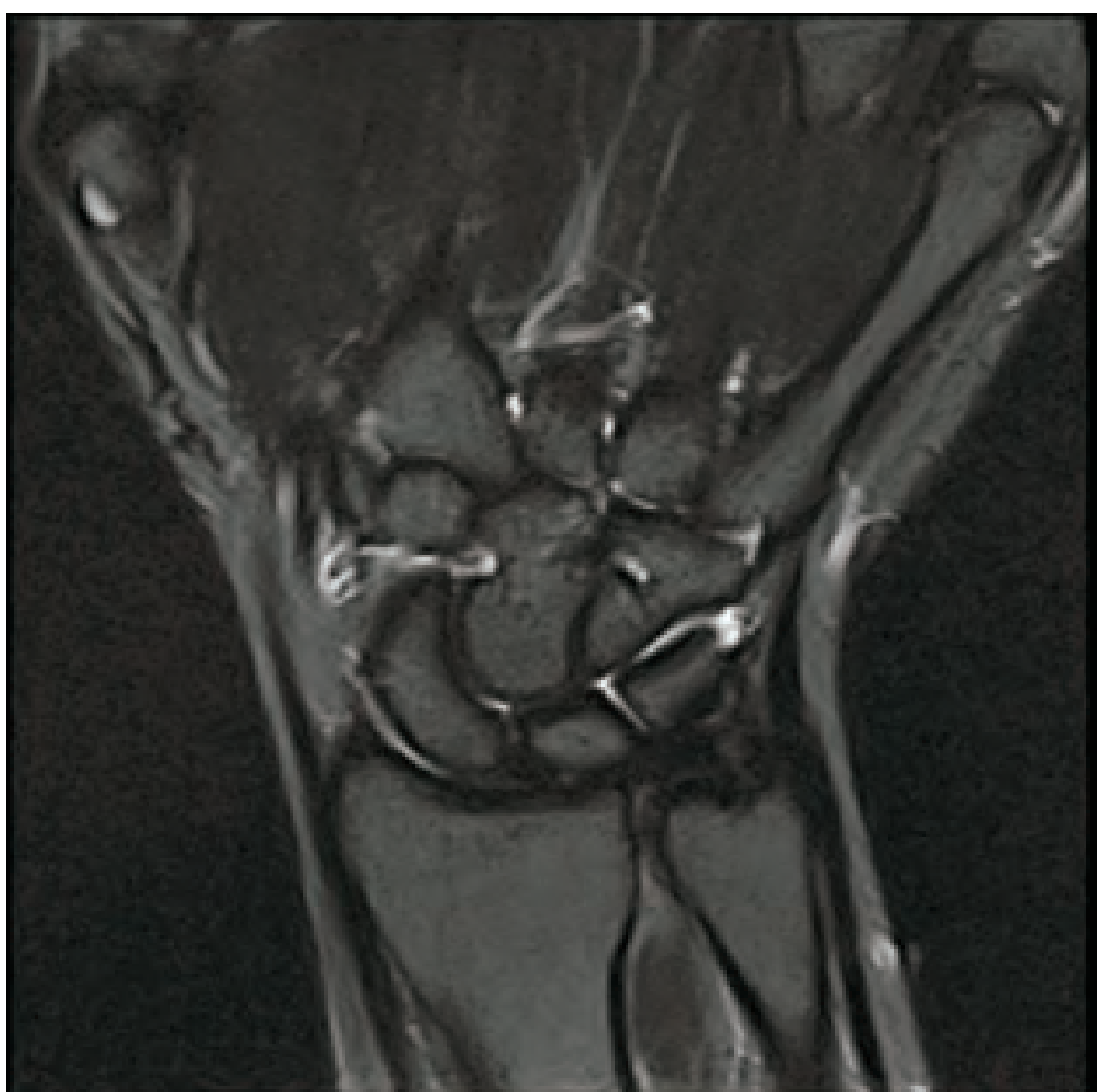
T1WI



STIR



T1WI



STIR

ELK-Diversity Mark 2

High ROI, Low cost, high return

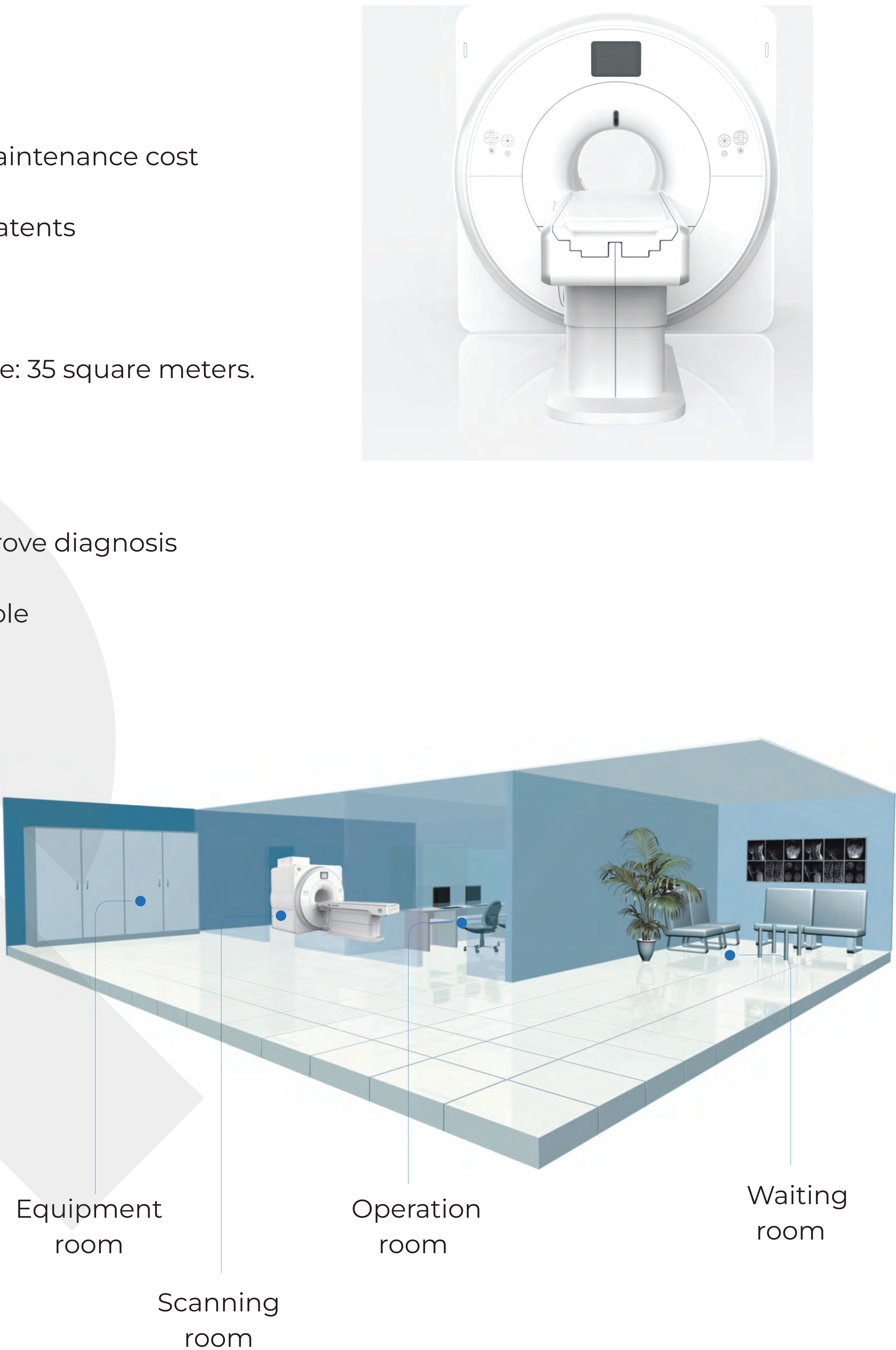
Low Investment

- High cost-effective superconducting MRI system
- Zero liquid helium consumption, low running and maintenance cost
- Upgrade fully supported by core technologies with patents
- Low power consumption
- Compact magnet design, minimum installation space: 35 square meters.

High Return

- High resolution images with thin slice thickness improve diagnosis
- Short bore magnet design makes patients comfortable
- Fast scan speed improves work efficiency.

Flexible Site Design



Standard room size

	Length(mm)	Width(mm)	Height(mm)
Magnet room	6500	5500	3300
Equipment room	5500	3000	3300
Operate room	4500	4000	3200

Power Supply

Phase Voltage	3 Phase, 380V
Voltage Stability Range	10%
Frequency Range 50/60Hz,	1Hz
Connection Power Value	60KVA

Average power value of normal operation with full load