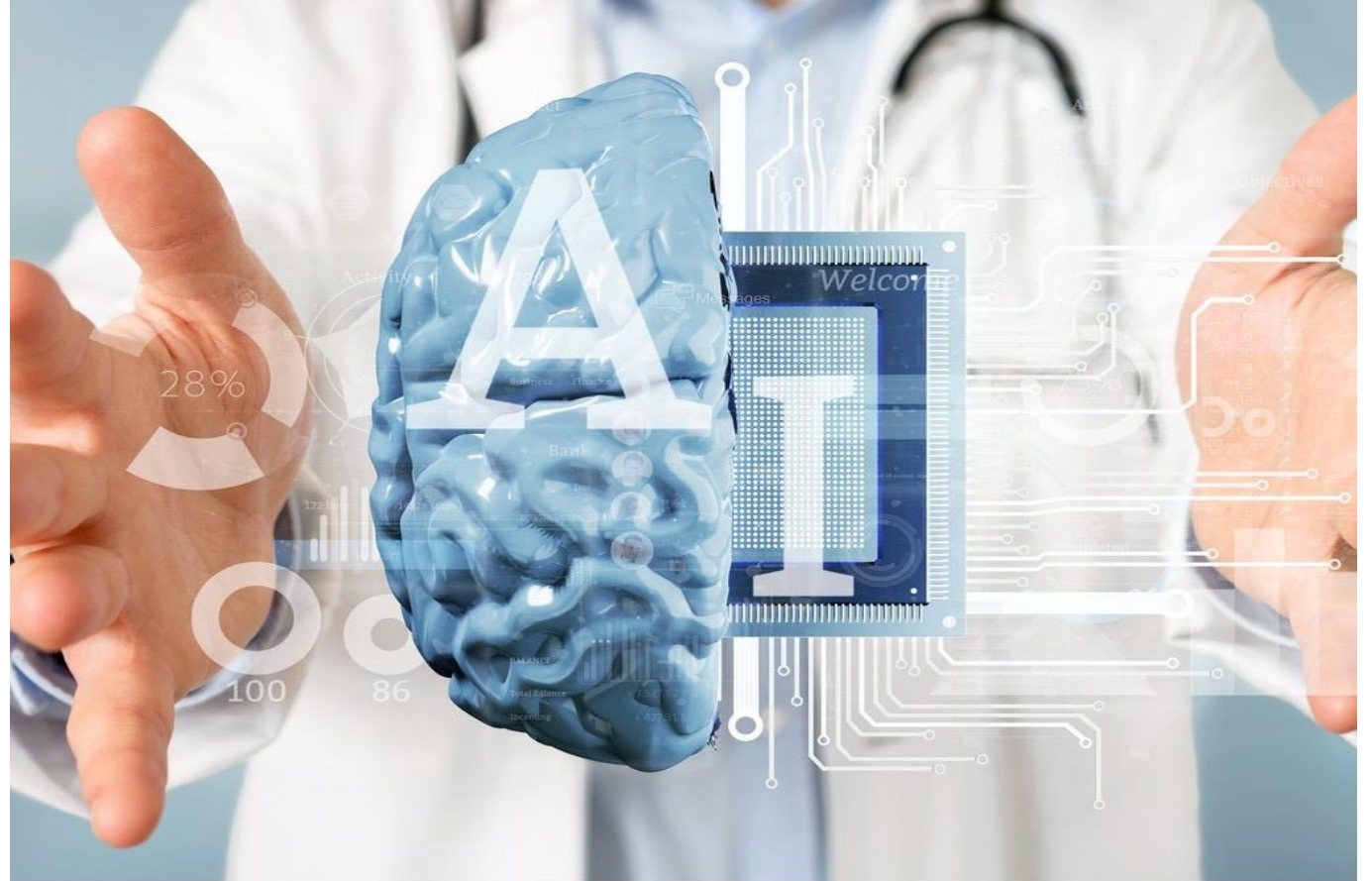




AIkenist

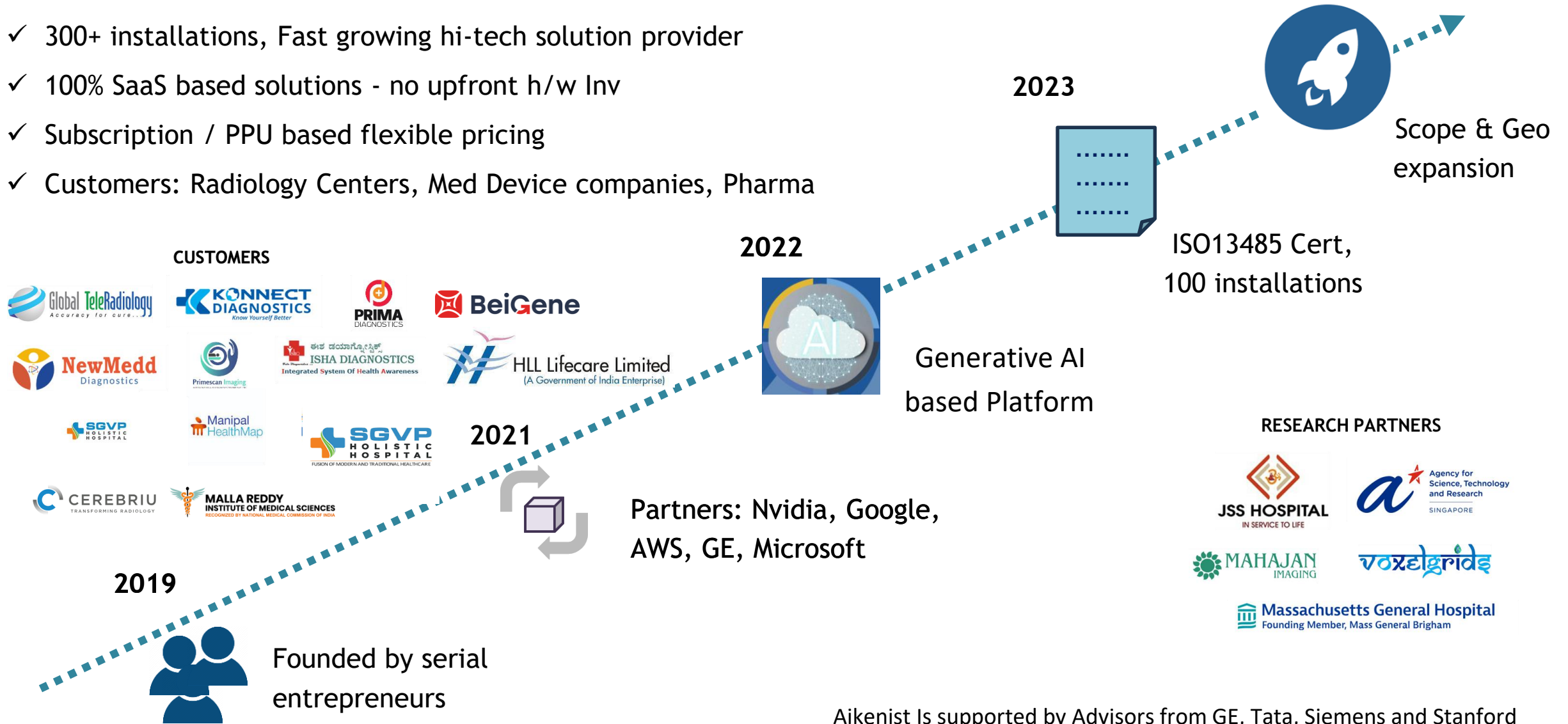
Gen-AI end-to-end
Imaging Platform &
Radiology solutions



Medical Imaging. Faster. Affordable. Convenient.

Steady Progress: 300 installations +

- ✓ 300+ installations, Fast growing hi-tech solution provider
- ✓ 100% SaaS based solutions - no upfront h/w Inv
- ✓ Subscription / PPU based flexible pricing
- ✓ Customers: Radiology Centers, Med Device companies, Pharma



Aikenist Is supported by Advisors from GE, Tata, Siemens and Stanford

Team: Experienced in Deep Tech Business



ASHWIN AMARAPUR

Founder, CEO
IISc, Ex- Motorola, NXP .
Exit with AllGo Embed, Ex CEO
AllGovision
Serial Entrepreneur



RAVINDRA G H

System Architect
Ex- CGI 25+ yrs
experience



DR. MUTHU MAGESH

Advisor - Lead
Radiologist



SANJEEV S

Advisor
Business Leader



ANUJ BATRA

Business Advisor
CXO in top firms



CORE TEAM

AI-Engineers, Research
Scholars



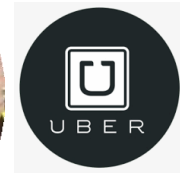
SACHIN SHEKHAR

Director - Partnership & Growth
Ex- Subex, Angel Investor,
Serial Entrepreneur

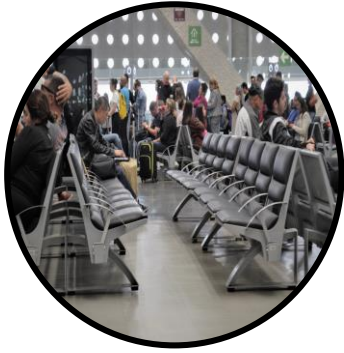


VENKATESH SHARMA

Director
Ex Uber, NetApp



Setting the context : Slow Radiology Process



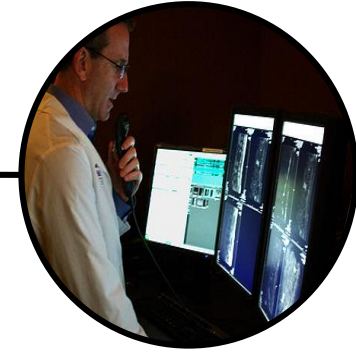
Cumbersome Patient Mgmt

- Long queue times at peak
- Underutilized machines with uneven loads
- Unpredictable wait time



Inconvenient Scanning Process

- Claustrophobic 30 m - 60 m MR scanning time
- High radiation exposure to CT

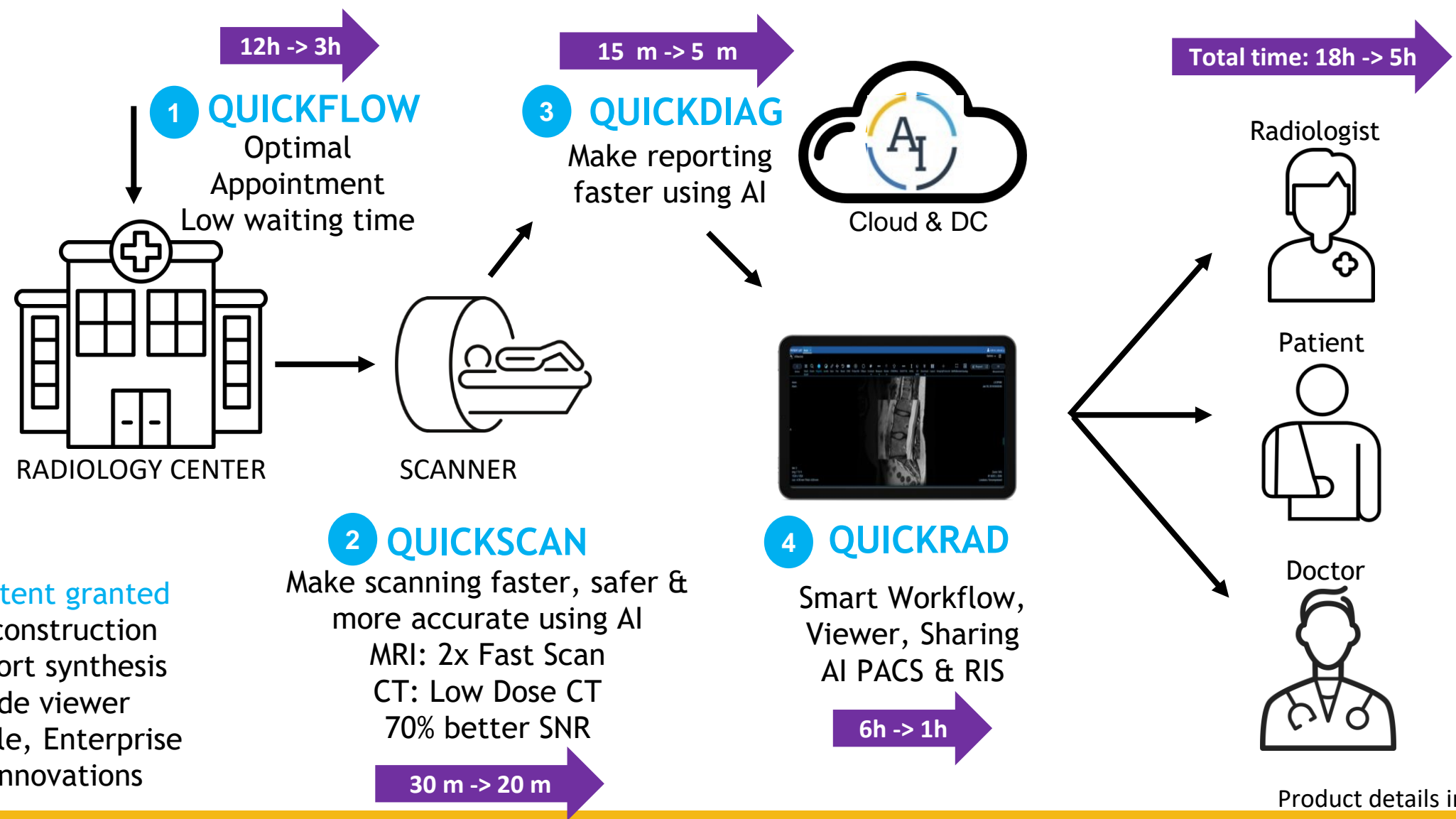


Slow Turn-Around Times

- Slow Radiologist Response time
- Delay in reports to Patients and Physicians

Appointment to Treatment takes Days causing major bottleneck in adoption and sub-optimal ROI
Global problem. Canada//Europe: Up to 6 months wait time for MR, US: 6 weeks, India: high wait time for PPP

“QuickSuite” is a “Radiology OS”, an end-to-end stack



Quickscan - Patent granted
Gen AI for reconstruction
Gen AI for report synthesis
Medical grade viewer
AI, Cloud, Mobile, Enterprise
Plethora of innovations



Quick Suite- Radiology OS



Service Journey



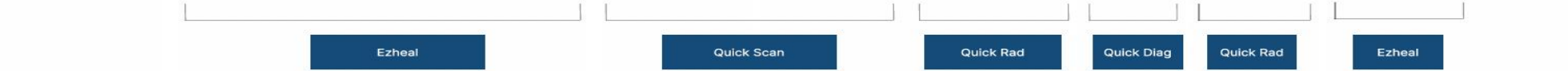
Participants



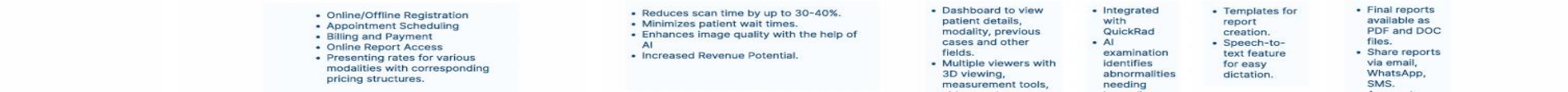
Painpoints



Solutions



Features



Supported Modules



Advantages



Waiting Point

QuickFlow - “Shopify” Diagnostics

PATIENTS
(online/offline)



- ✓ Better Patient queue management
- ✓ Better Scanning Process
- ✓ Better machine utilization

QUICKFLOW

1

Online/Offline booking
with center specific
catalogue

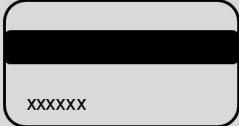
	MRI	CT-Scan	X-ray
Spine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brain	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abdomen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MSK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chest	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Submit



Innovative & convenient custom plans

2

Pay online and get
walk-in slot



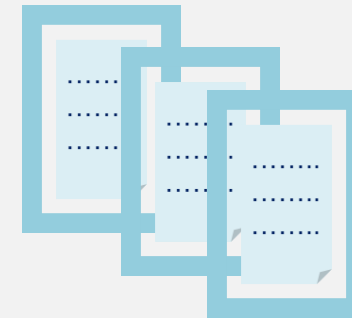
xxxxxx



Radiological imaging based health metrics

3

Fast scanning and
quick report
delivery



QUICKSCAN

QUICKRAD

QUICKDIAG

Today's Cases

0

Today Pending Cases

0

Today Completed Cases

0

Today Emergency Cases

0

Add Booking

All Cases

Today's Cases

Pending Cases

Completed Cases

Emergency Cases

Online Cases



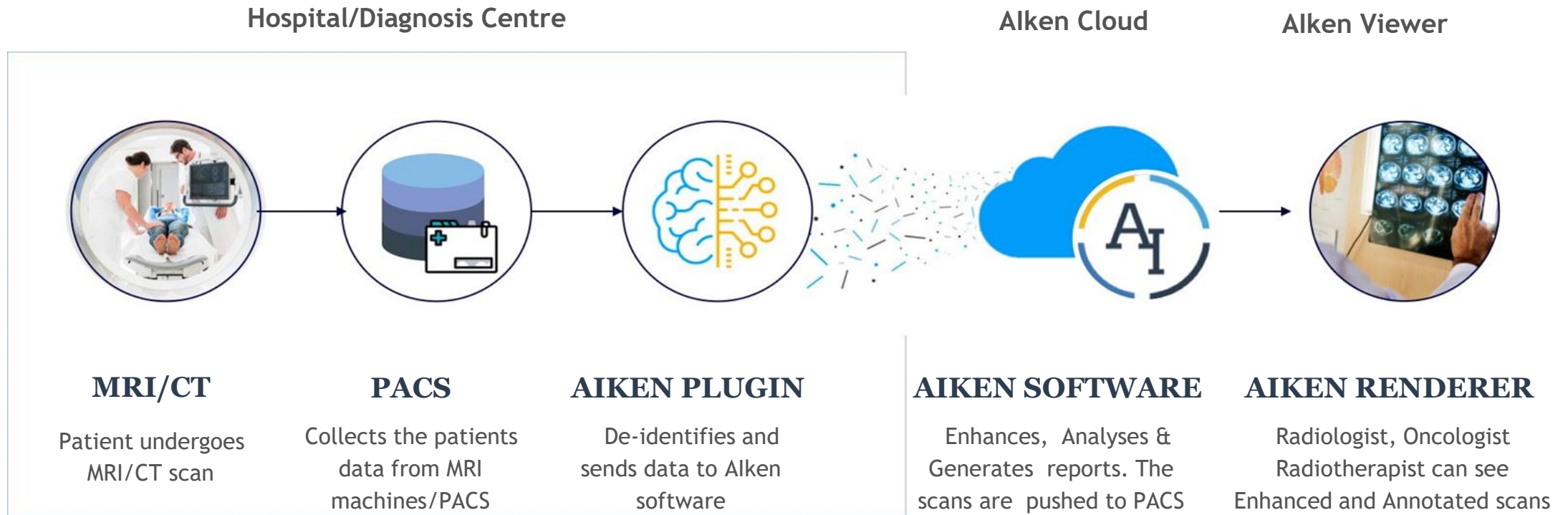
Select Columns to show

Select Date Range : Start date → End date

Export to File

<input type="checkbox"/>	No.	Booking Time	Case ID	Patient ID	Patient Details	Referring Physician	Appointment Date	Scans	Total Amount
<input type="checkbox"/>	1	11-09-2023 02:02:06	NMHM00000 068 online	NMH000050	Rachit Tiwari3 (M) 01-01-1978 raccccc@yopmail.com 8686857647	N/A	13-09-2023 10:00	Home Visit Charges for 0-10 kms (Single Visit)	₹ 160 ⓘ
<input type="checkbox"/>	2	12-09-2023 15:05:15	NMHM00000 069 offline	NMH000058	Lab Order 3 (M) 01-01-1998 9989898998	N/A	12-09-2023 16:00	CULTURE & SENSITIVITY - BLOOD, GLUCOMETER BLOOD GLUCOSE, PET- FDG-CREATININE	₹ 3500 ⓘ
<input type="checkbox"/>	3	06-09-2023 17:39:35	NMHM00000 067 offline	NMH000057	06_06_test1 (F) 04-09-2023 06_06_test1@demo.com 6675545452	Dr. Ramesh Kumar 7275373652	06-09-2023 19:30	BRAIN & FACE, GLUCOMETER BLOOD GLUCOSE, CULTURE &	₹ 13500 ⓘ

QuickScan - Expedited scanning (2X)



- ✓ Patent granted (# 409689)
- ✓ Deployed commercially in over **40 centres – scalable to millions of scans**
- ✓ 2X speed of normal scans with no change in accuracy ; HIPAA compliant:
- ✓ No Change in Radiologist workflow, No dependency on MR/CT Manufacturer

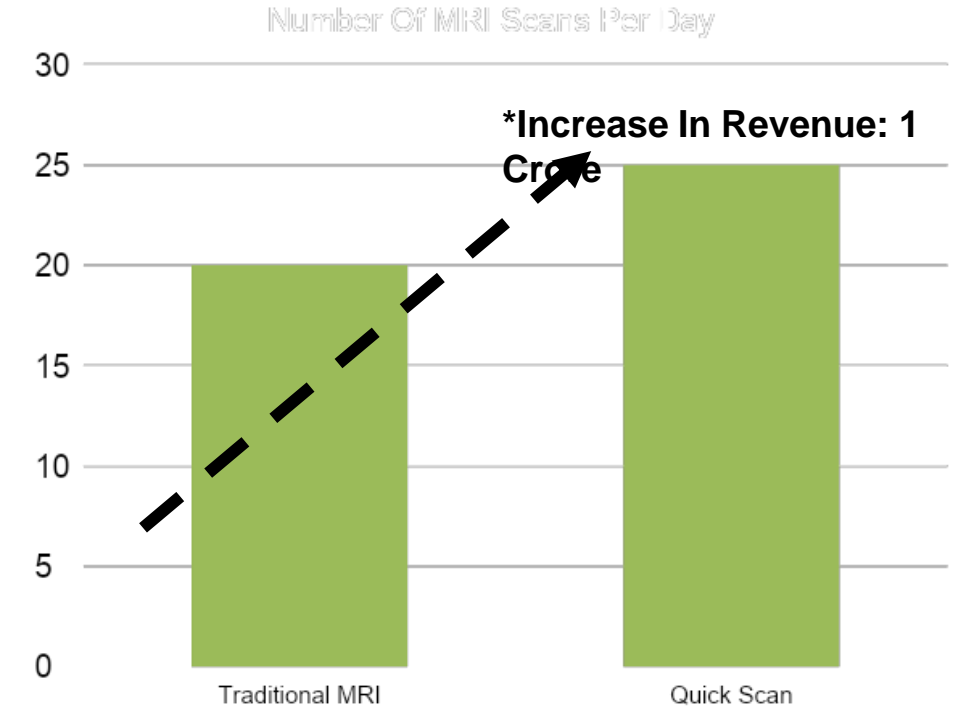
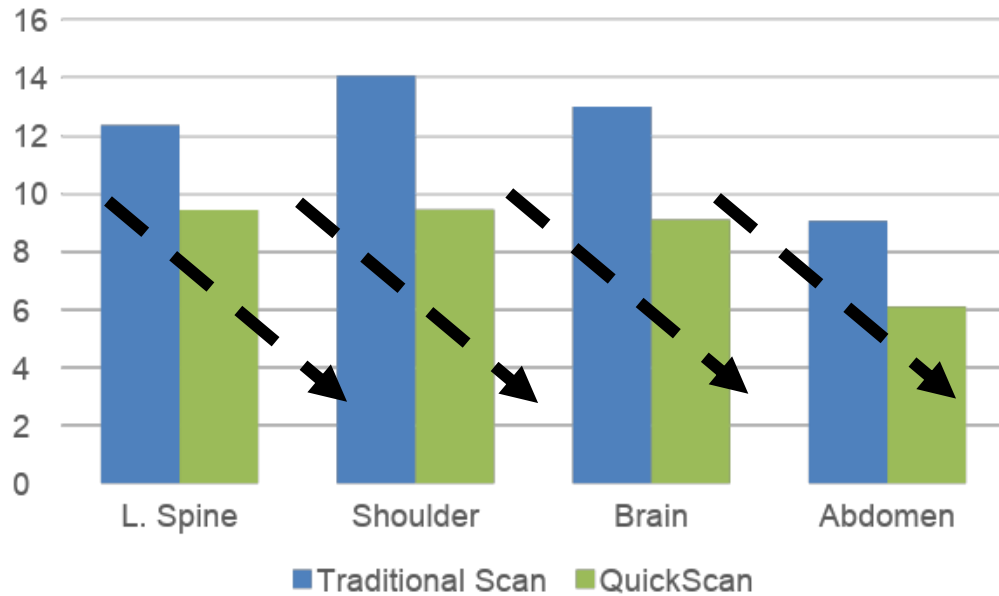
QuickScan Demo - 50% time reduction

Scans (SOC & fast) are taken at different time



QUICKSCAN

(Revenue & Scan Impact)



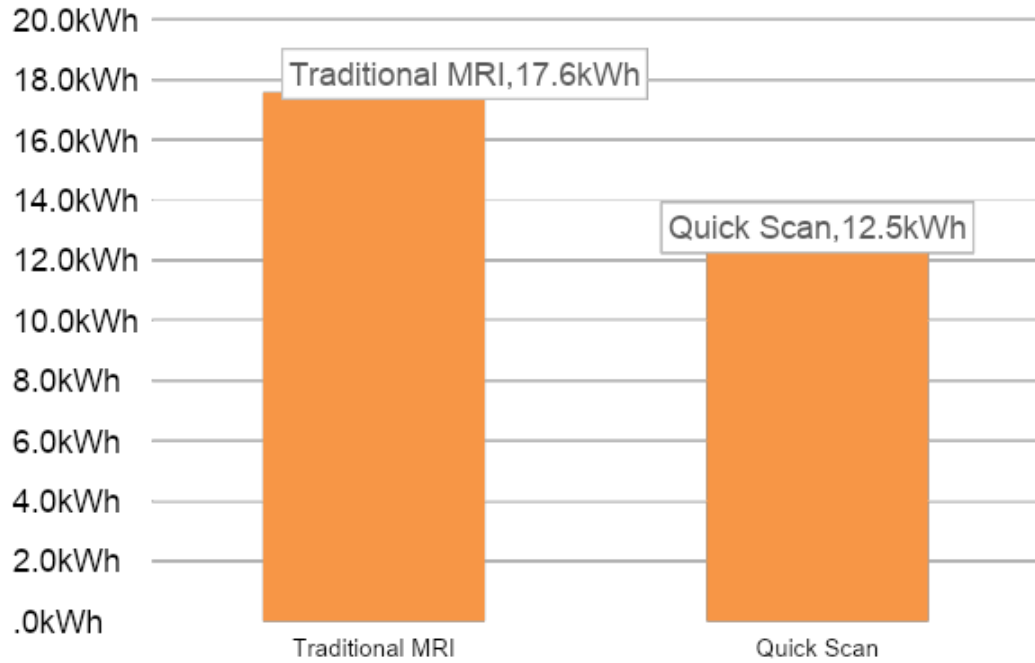
	TRADITIONAL MRI	QUICKSCAN	TIME SAVED	
SHOULDER	14 Min 07 Seconds	09 Min 45 Seconds	4Min 62 Seconds	
LS SPINE	12 Min 36 Seconds	9 Min 44 Seconds	2 Min 92 Seconds	
ABDOMEN	9 Min 6 Seconds	6 Min 0 Seconds	3 Min 6 Seconds	
BRAIN	13 Min 0 Seconds	9 Min 10 Seconds	3 Min 9 Seconds	
TOTAL TIME	48 Min 49 Seconds	33 Min 9 Seconds	14 Min 5 Seconds	29.9%

Current Scans/Day	New Scan/Day	Expected Revenue Increase	Increase In Revenue (300 Days and INR 7000 Scan)
20	25	25%	1 Crore

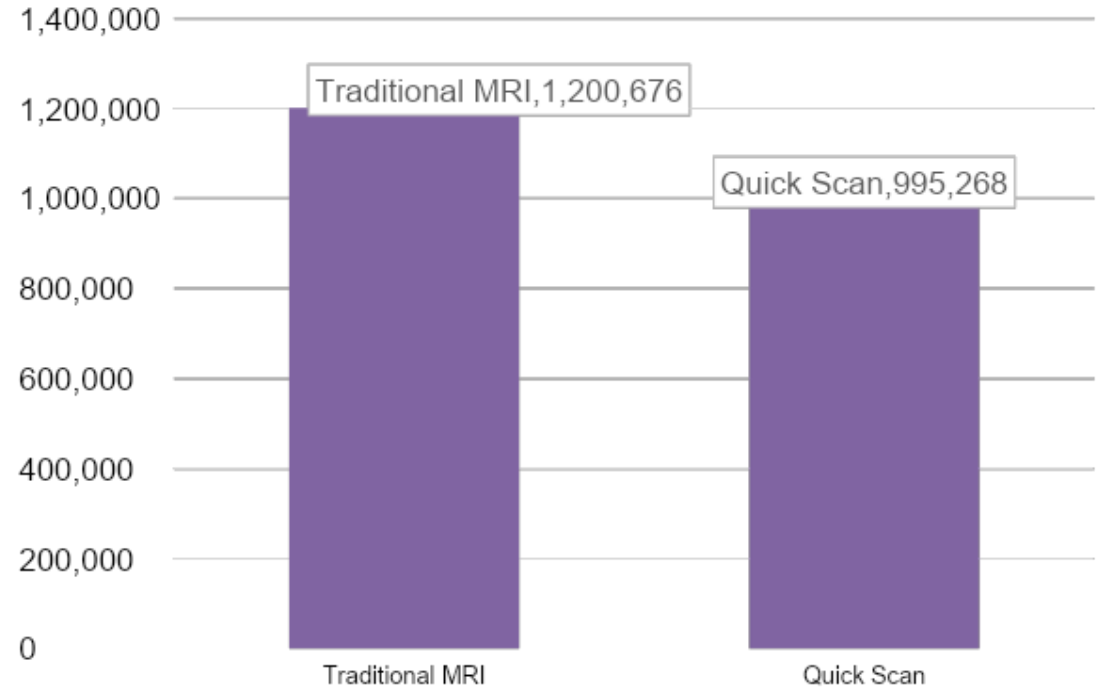
QUICKSCAN

(Energy Saving Impact)

Number Of MRI Scans Per Day



Number Of MRI Scans Per Day



Energy Consumption Per Scan

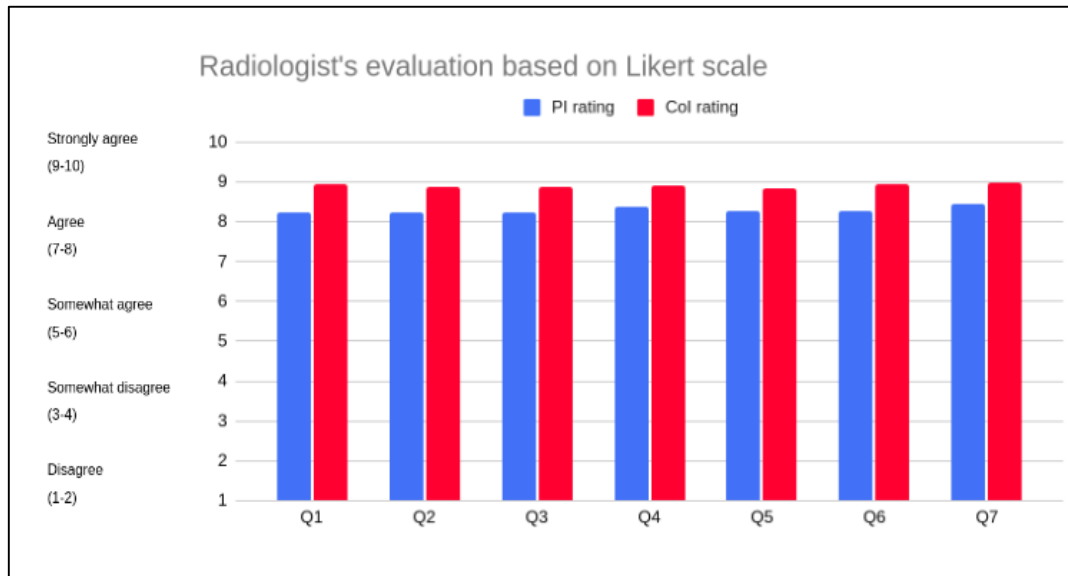
Traditional MRI Energy Consumption (Per Scan)	QuickScan MRI Energy Consumption (Per Scan)	Reduce in Consumption (Per Scan)	Cost Saved in Energy Consumption (Per Scan)
17.7kWh	12.5 kWh	5.1 kWh	\$0.66

Energy Consumption Per Year

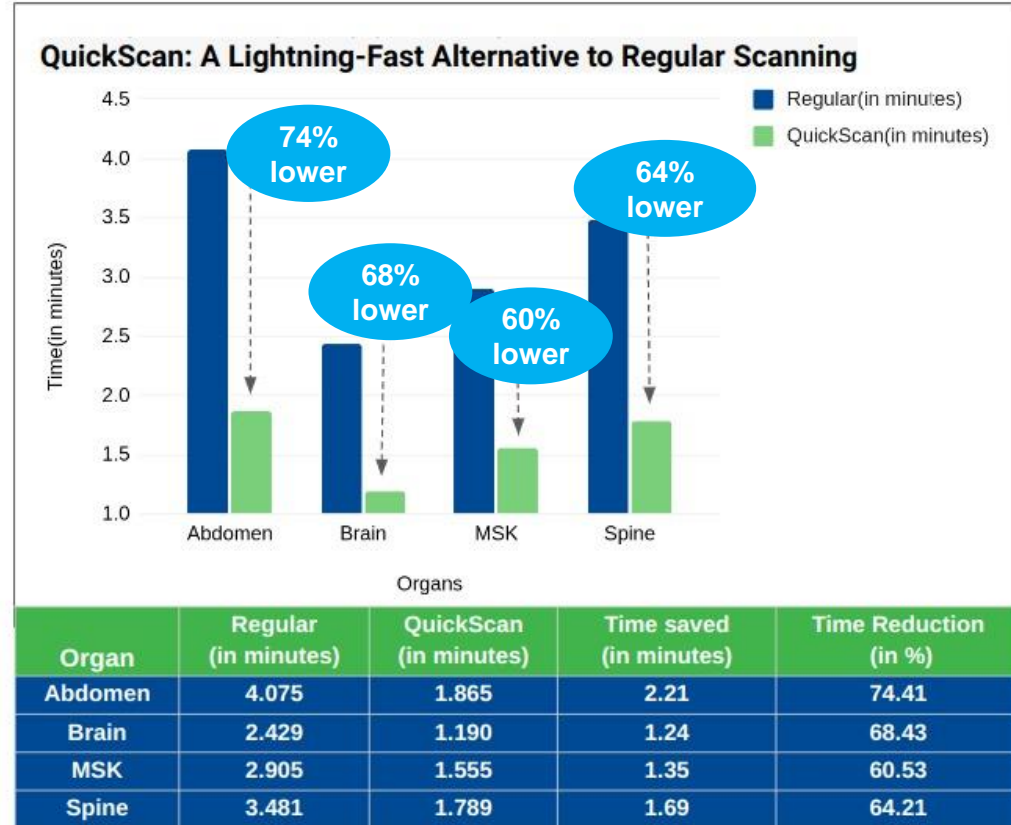
Traditional MRI Energy Consumption (For 40,276 Scans)	QuickScan MRI Energy Consumption (For 40,276 Scans)	Difference in Total Cost to Run (For 40,276 Scans)	Savings Percentage (For 40,276 Scans)
12,00,676 kWh	9,95,268 kWh	\$26,292	17%



Radiologists agreed that images were sharper, lower noise and good delineation of pathology & anatomy with user-friendly viewer



- Q1: Good delineation of Pathology after QuickScan processing
- Q2: Good delineation of Anatomy observed after QuickScan processing
- Q3: Reduced noise levels and sharper images after QuickScan processing
- Q4: Aikenist produced high image quality after post processing compared to standard acquired images.
- Q5: Temporal resolution of the post processed Aikenist images are superior compared to standard acquired images.
- Q6: Aikenist PACS software with viewer -QuickRad is user-friendly and has good features.
- Q7: Overall impact of QuickRad and QuickScan for workflow and diagnostic capabilities in radiology practice is good.

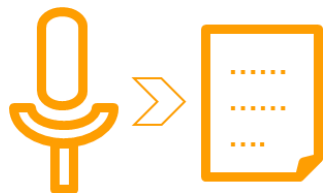


“Aiken Quickscan accelerates MRI scan time. This is a must have solution for better MRI machine usage and Patient convenience”

Dr Vikram Patil, Associate Professor

<https://jsshospital.in/radio-diagnosis-imaging/doctors/Dr-Vikram-Patil>

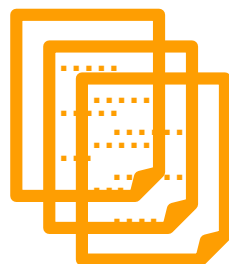
QuickDiag - Next Gen Reporting and Sharing



Speech to text reducing report time, Generate report automatically given disease, parameters



WhatsApp and SMS Integration for easier Doctor-Patient Communication



Generative AI based summary generation from reports



Single Pane (Viewer + Report) (cloud-based) Dashboard with Patient-Doctor Log-in.

QuickRad - AI Workflow with PACS & RIS



AI Smart Workflow with PACS & RIS



Artificial Intelligence

Smart Workflow for reporting, viewing with PACS & RIS



Easier Communication

WhatsApp and SMS Integration for easier Doctor-Patient Communication.



Medical Grade Viewer

Modern zero foot print viewer with 3D, Annotation and AI capabilities

Today Cases 0 Today Pending 0 Today Completed 0 Today Emergency 0 🔴

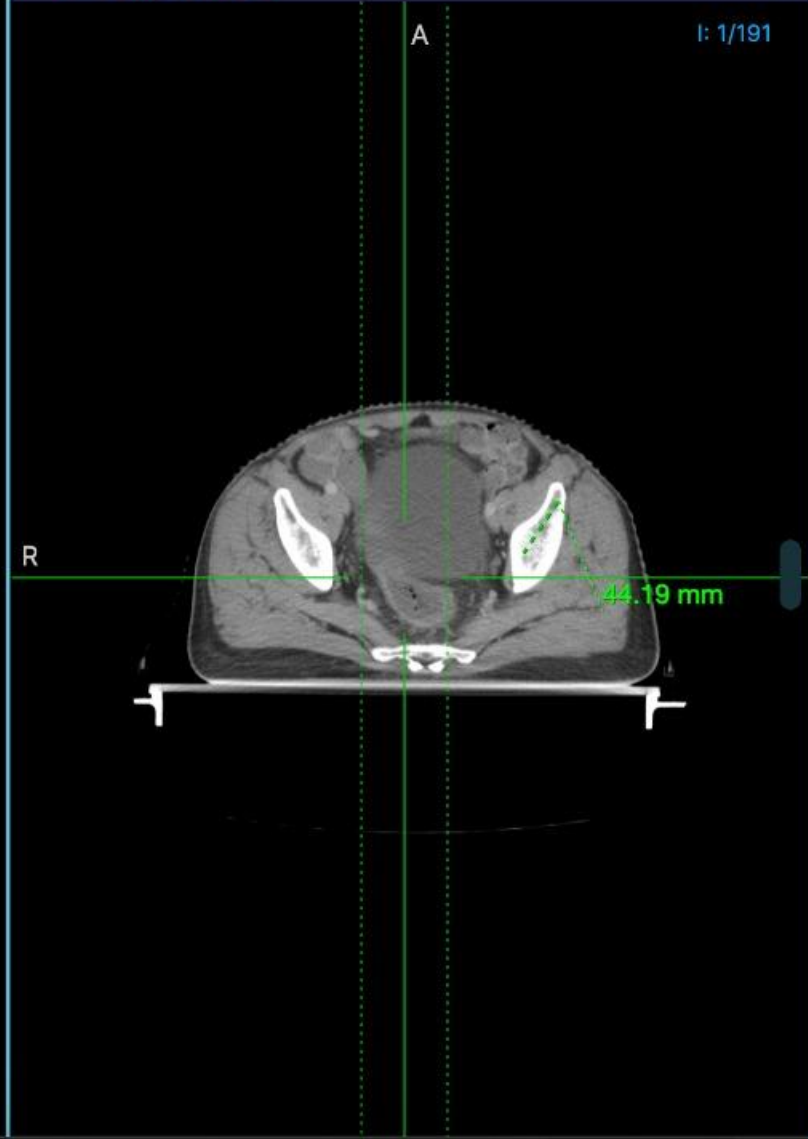
🗑️ ↻ ⬆️ 🏠 Emergency Allotted Unallotted Approved 🔍 Completed 🔍 Search State ▾ Search City ▾

Upload Date	Patient Name	Patient ID	Modality	Description	Age / Gender	Report Status
From - To	Patient Name	Patient ID	Modality	Description	Gender	Status
31-03-2023 11:41:19	ACRIN-FLT-Breast_001	ACRIN-FLT-Breast_001	PT	+ PET-CT STUDY	049Y / F	31-08-2023 21:28:37 Final 📄 📄 ✍️
30-03-2023 14:22:54	Anon	HSON-370004709	MR	+ MRI BRAIN+...	030Y / M	23-05-2023 17:08:58 Final 📄 📄 ✍️
30-03-2023 12:44:56	Anon	230750007543		+ 3 T MRA	047Y / M	Pending
29-03-2023 21:16:16	ACRIN-FLT-Breast_005	ACRIN-FLT-Breast_005		+ PET-CT STUDY	051Y / F	
29-03-2023 21:14:07	ACRIN-NSCLC-FDG-PET-007	ACRIN-NSCLC-FDG-PET-007	PT	+ PET-CT STUDY	070Y / F	Pending
30-03-2023 18:32:52	ACRIN-FLT-Breast_001	ACRIN-FLT-Breast_001	PT	+ PET-CT STUDY	049Y / F	Pending

Supports Multiple Viewers – In built 3D Aiken Viewer

Multiple Reports Multi Reader

A 29-Mar-2023 | S: 7
I.V.CONTRAST KRISHNA GIRI



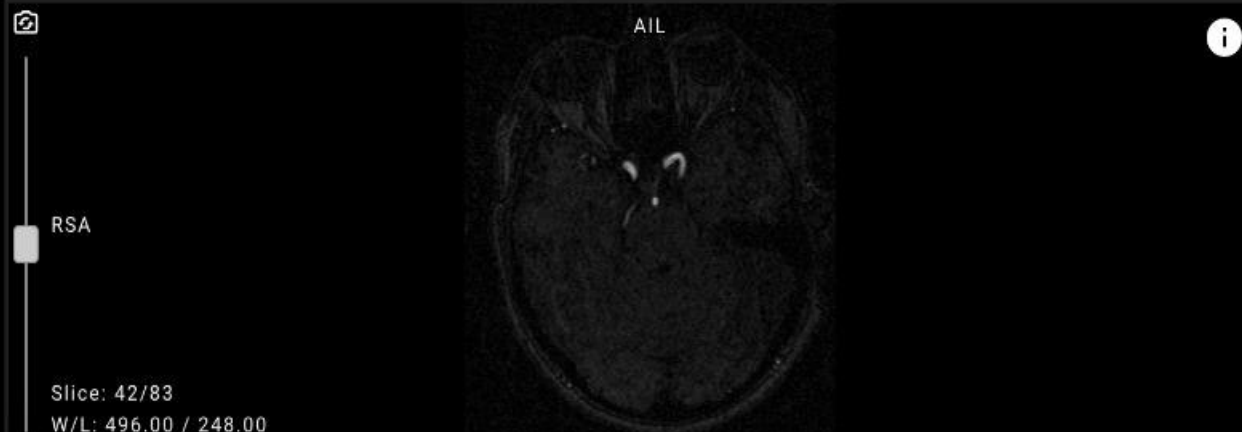
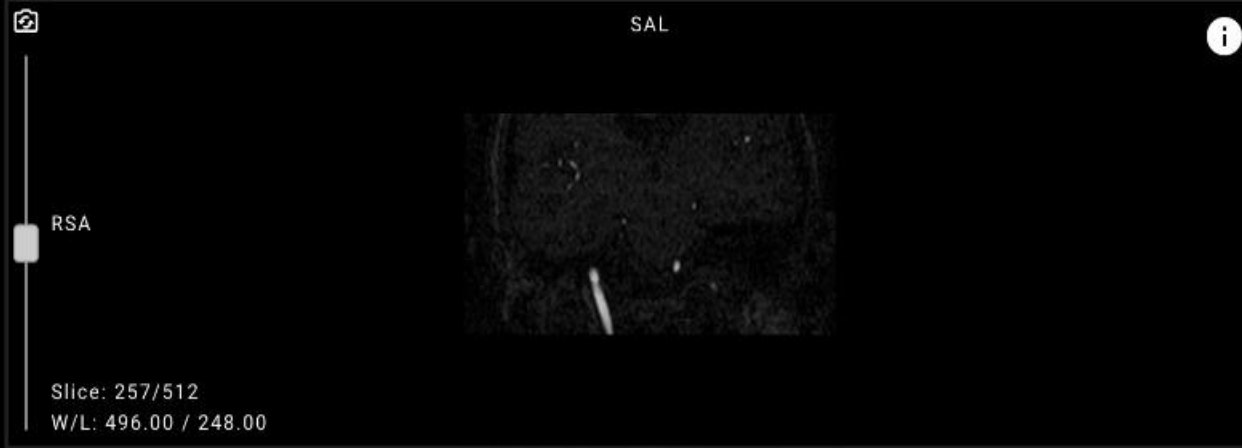
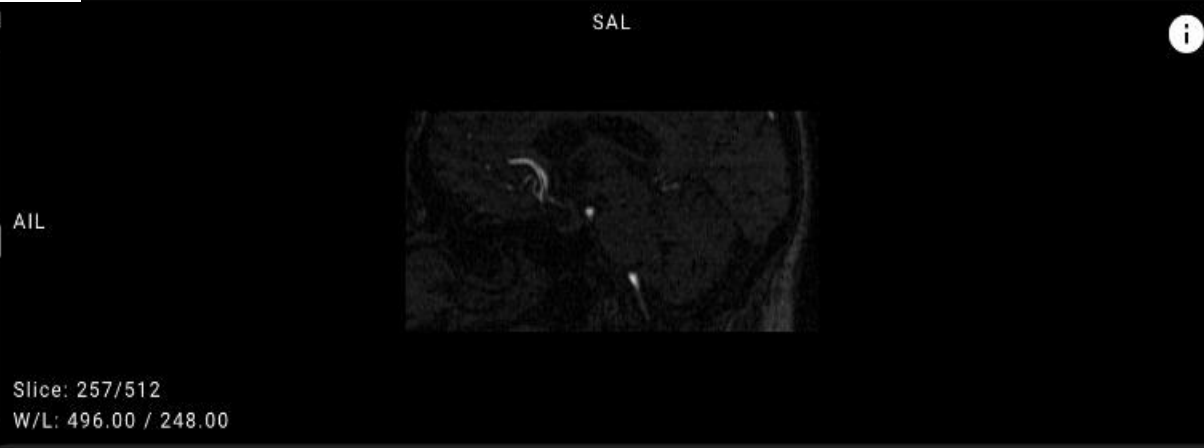
B 29-Mar-2023 | S: 7
I.V.CONTRAST KRISHNA GIRI



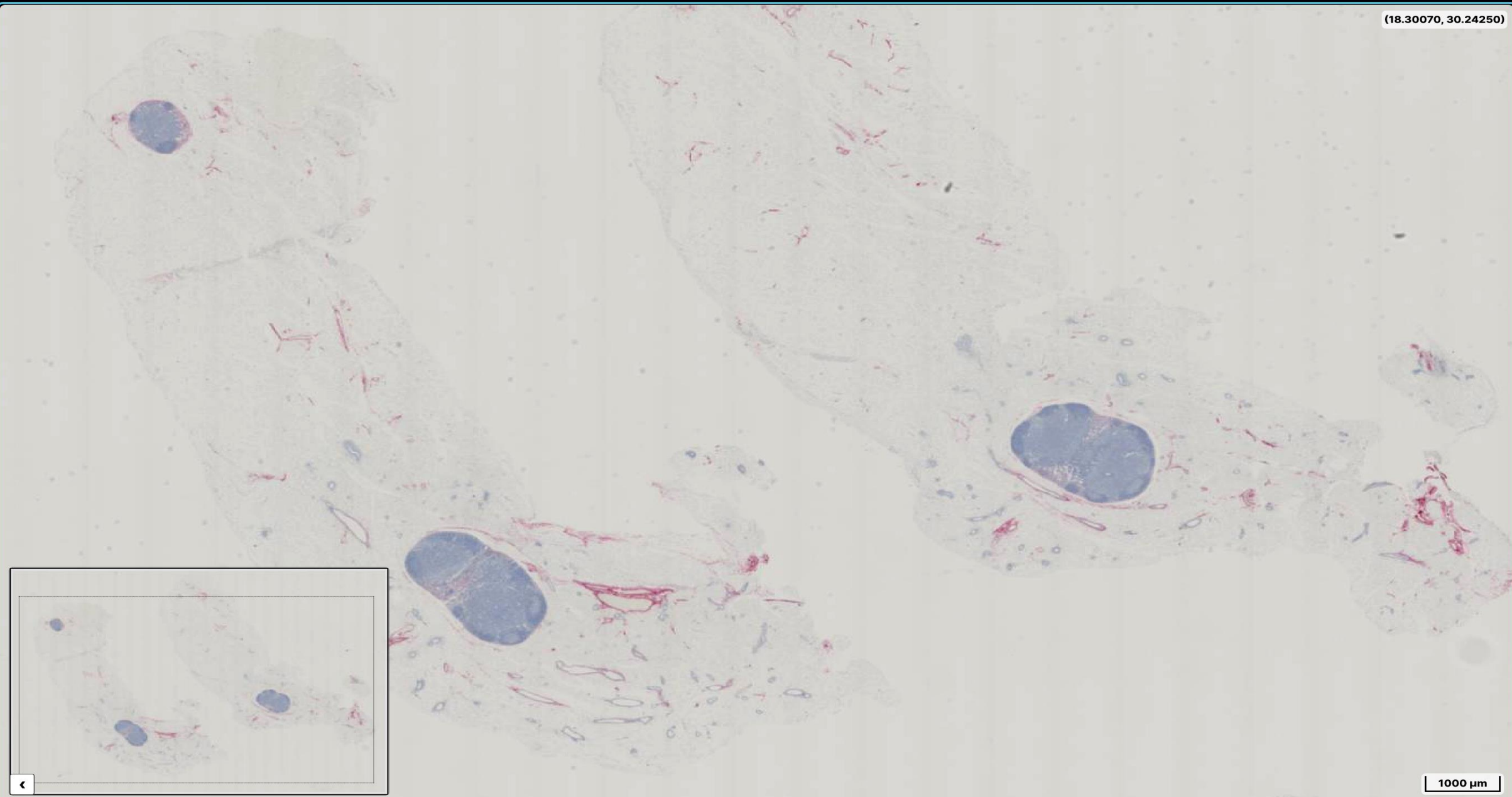
C 29-Mar-2023 | S: 7
I.V.CONTRAST KRISHNA GIRI



3D MPR with continuous MIP



(18.30070, 30.24250)



1000 μm

Artificial Intelligence Analysis Using Aikenist.

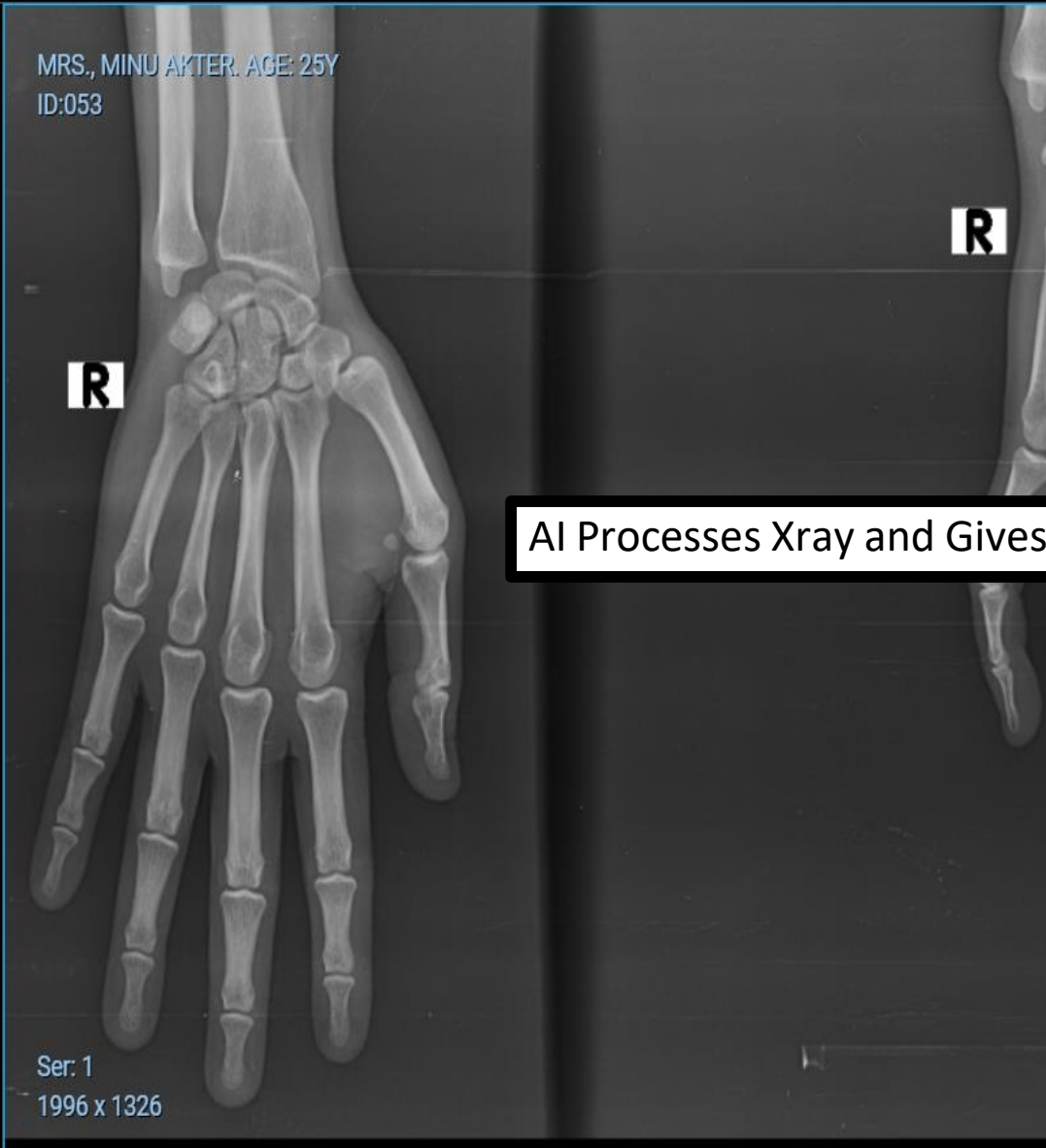
Series Stack Scroll Zoom Magnify Levels Sync Pan Reset CINE Probe/HU Contrast ▾ Measure ▾ Rotate ▾ Headers Layout HangingProtocols Fullscreen Overlay **Report** Measurements



s: 1

DOC

__1.2.392.200036.9125.3.2361772
 157514680.64975188790.294840
 __-Aikenist Processed
 s: 9276



Aikenist Generated Observations

Preliminary report auto generated

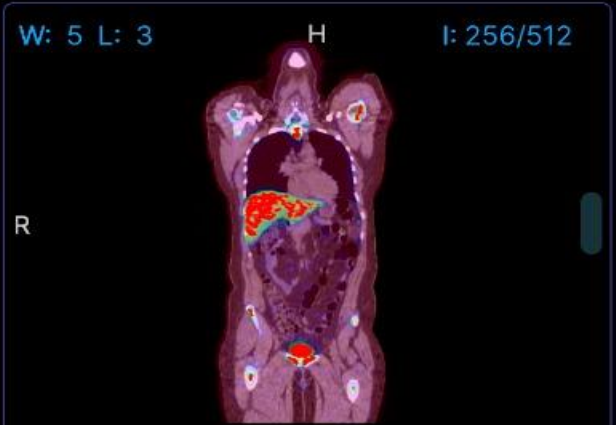
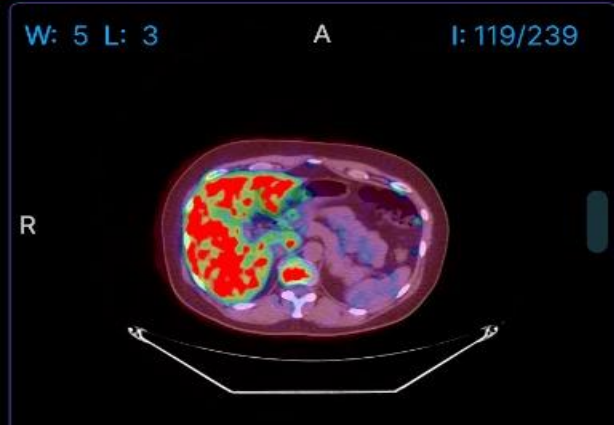
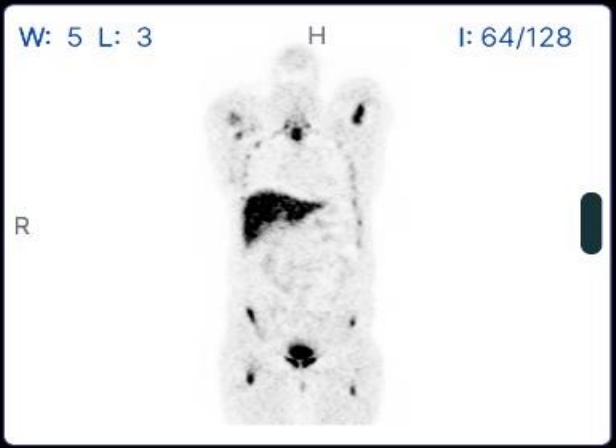
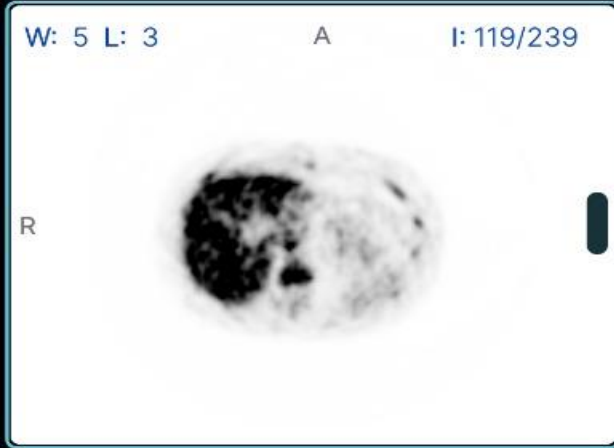
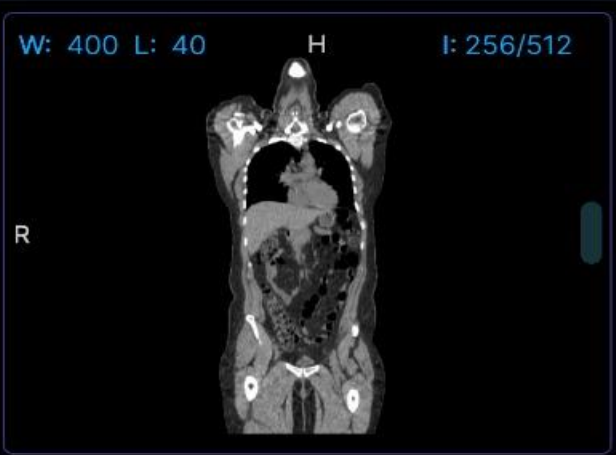
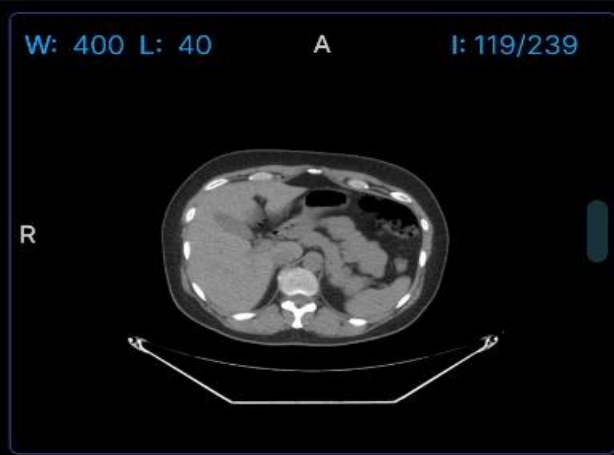
Preliminary report auto generated

Patient Name: MRS.^MINU^AKTER.^AGE:^25Y

Normal: 0.5513567328453064
Abnormal: 0.4486432671546936



AI Processes Xray and Gives Automated Abnormality Observations.



QuickSuite Highlights

• Distributed PACS • Secured

Any machine to any radiologist, anywhere in the world
Long term storage

Data protection & privacy
Identity & access mgmt.
Network & app protection



Cloud Centric

• Scalable

Build as you go
Low CAPEX cost

• Reliable

No single point of failure
Inbuilt in cloud platform

• Classification • Segmentation

Normal / Abnormal Abnormal region

• Fast Acquisition

Image enhancement



AI Centric

• Enhanced Reports • Quantification

Overlaid reports
Report summarization

Severity score

• Mobile viewer • Reports Viewing

Scanned image
Super resolution

For Patient



Mobile Centric

• Reporting

For Radiologist

• PACS Mgmt

For PACS admin

• Alerts

Mail/SMS/Whatsapp
Patient Portal

• Assisted treatment

Physician interaction
Choice of best & affordable medical facilities



Customer Centric

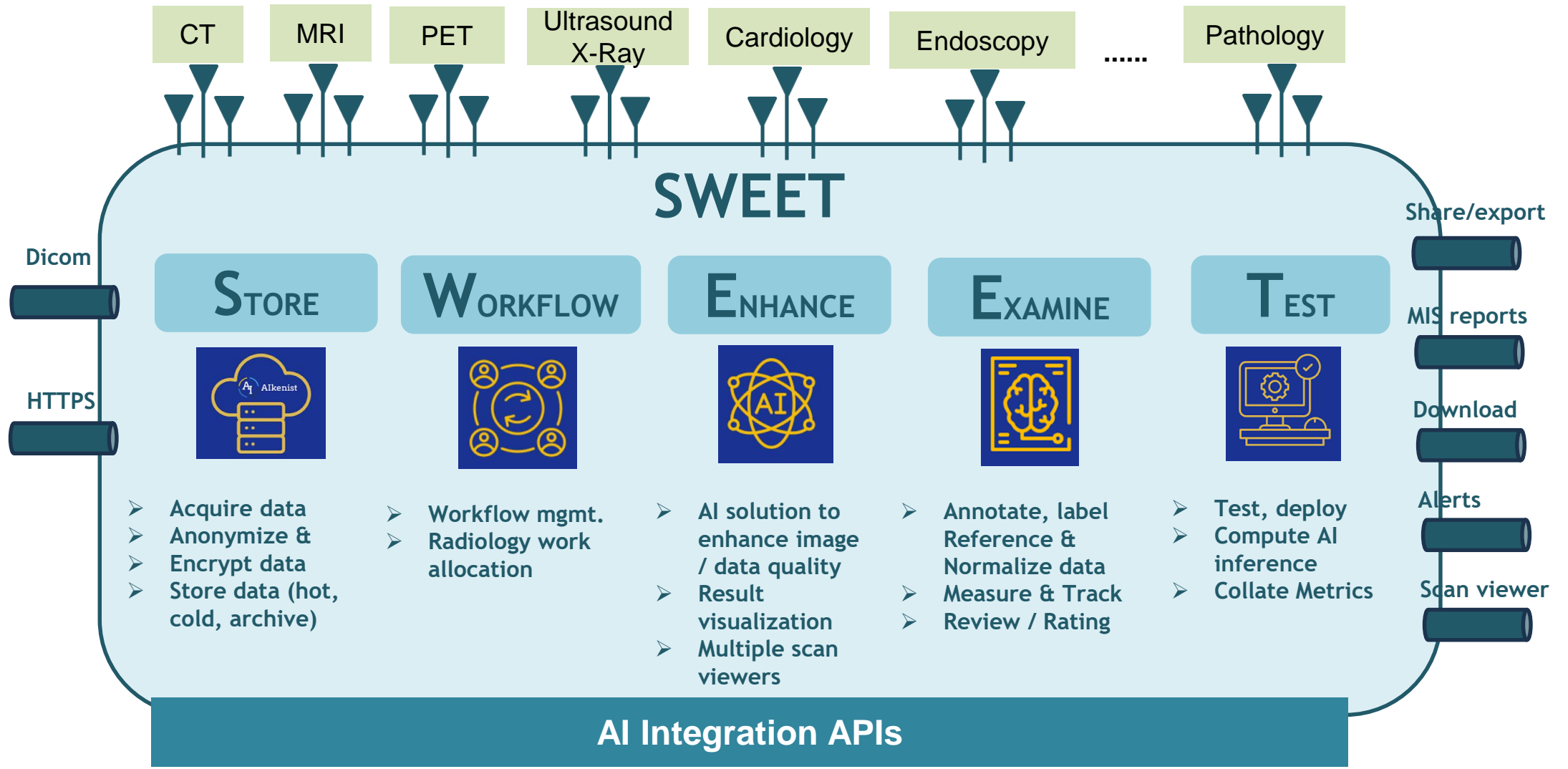
• Convenient

Fast scan
Data privacy

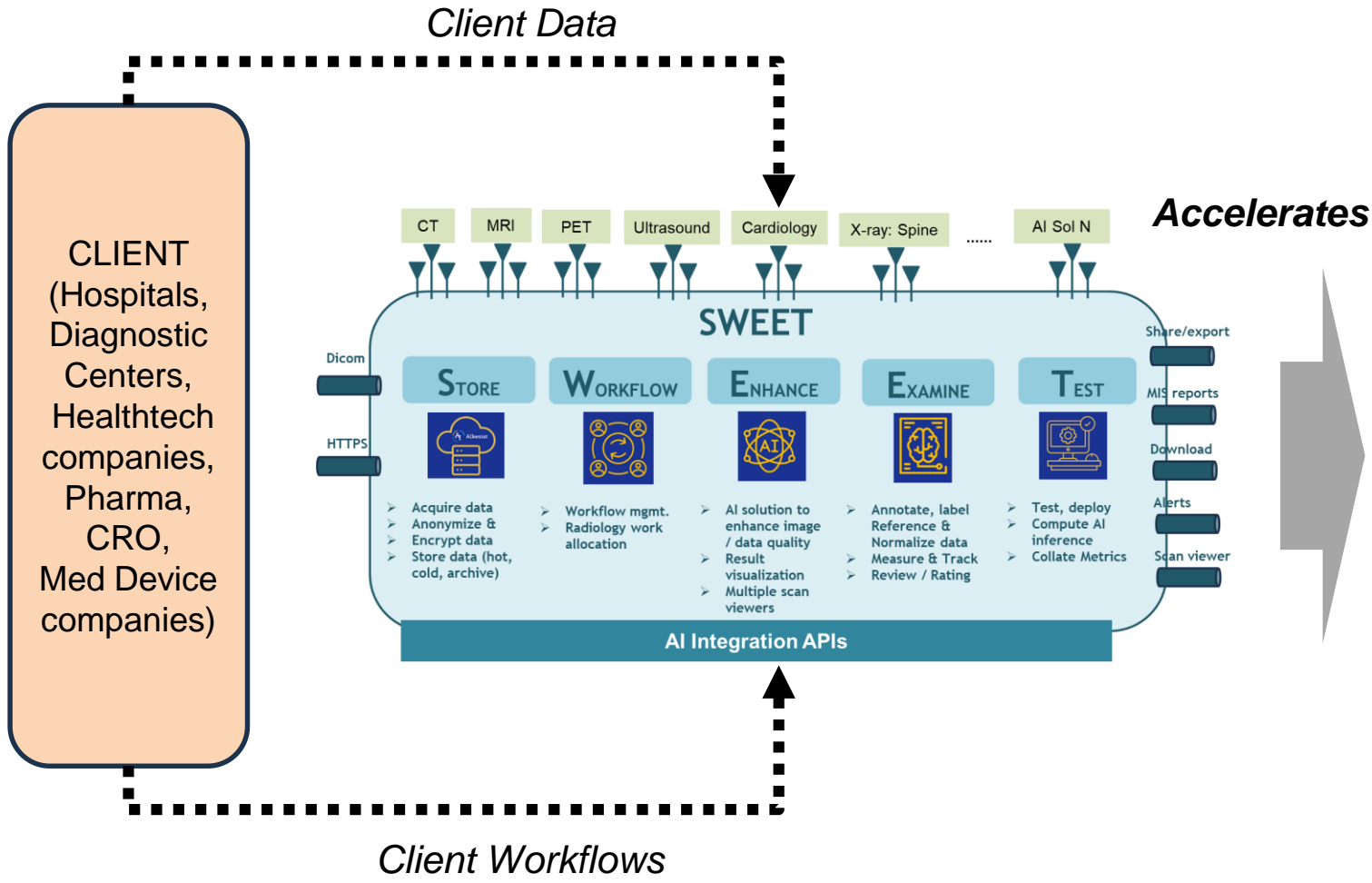
• Smart reports

Access to scans
Summary of reports

“SWEET” AI platform for Medical Imaging

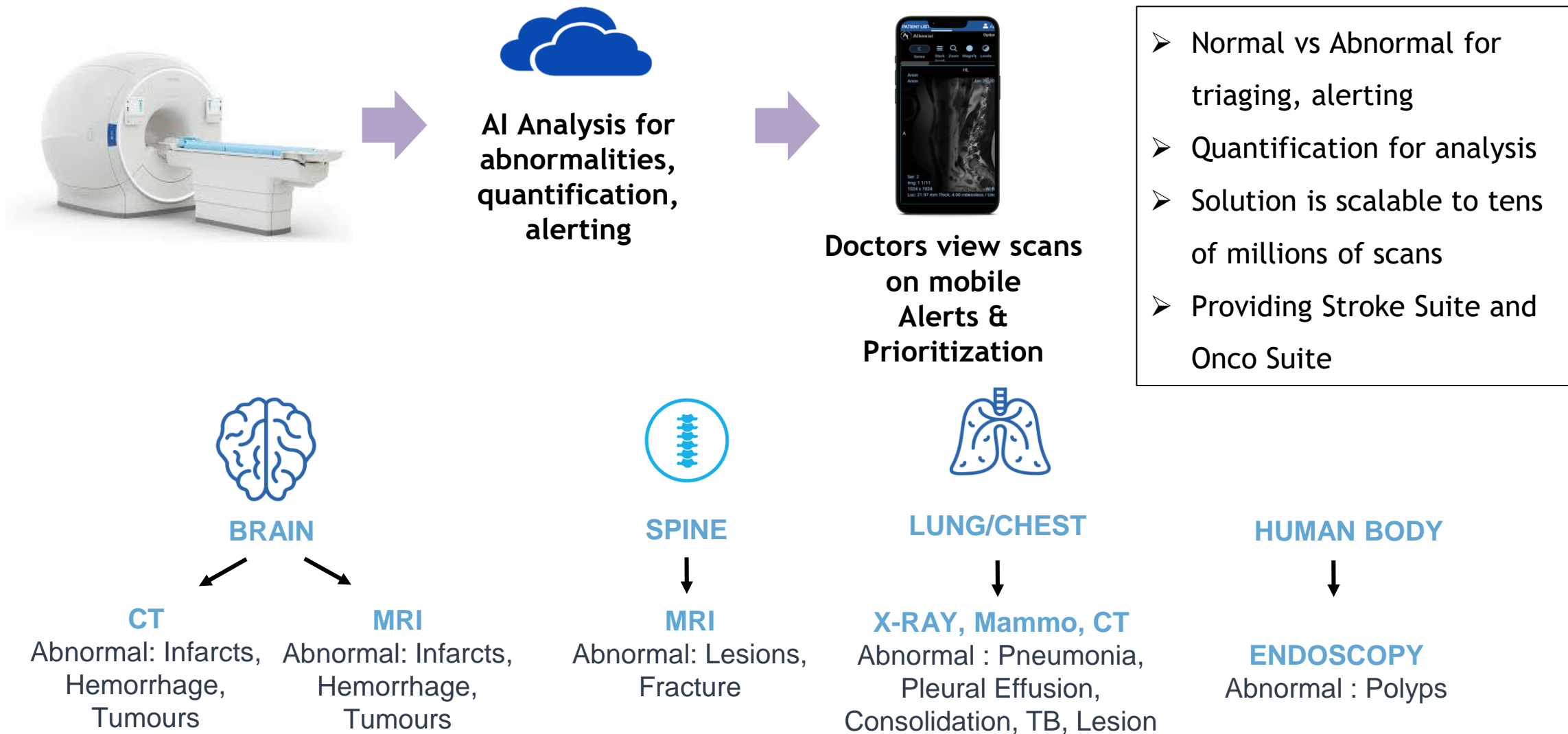


SWEET Platform enables MI data management & flow



- Radiology Workflow with PACS/RIS for Radiology Centers
- Annotations and AI model development and deployment for research hospitals, Pharma, Healthtech
- Clinical Data Platform for Pharma, CRO, Hospitals

QuickDiag - AI Analysis



QuickDiag - MR Brain AI

Fast automatic detection of candidate findings with a sensitivity of 98% and specificity of 78% on infarcts, and 86% and 82% on hemorrhages respectively.

Brain MRI analysis and mark-up of regions of interest and findings tagged for PACS in DICOM and PDF formats.

Fully integrated into Aikenist QuickDiag for seamless workflows.

Modality

MRI

Body part

Brain

Clinical scenario

Emergency

Routine

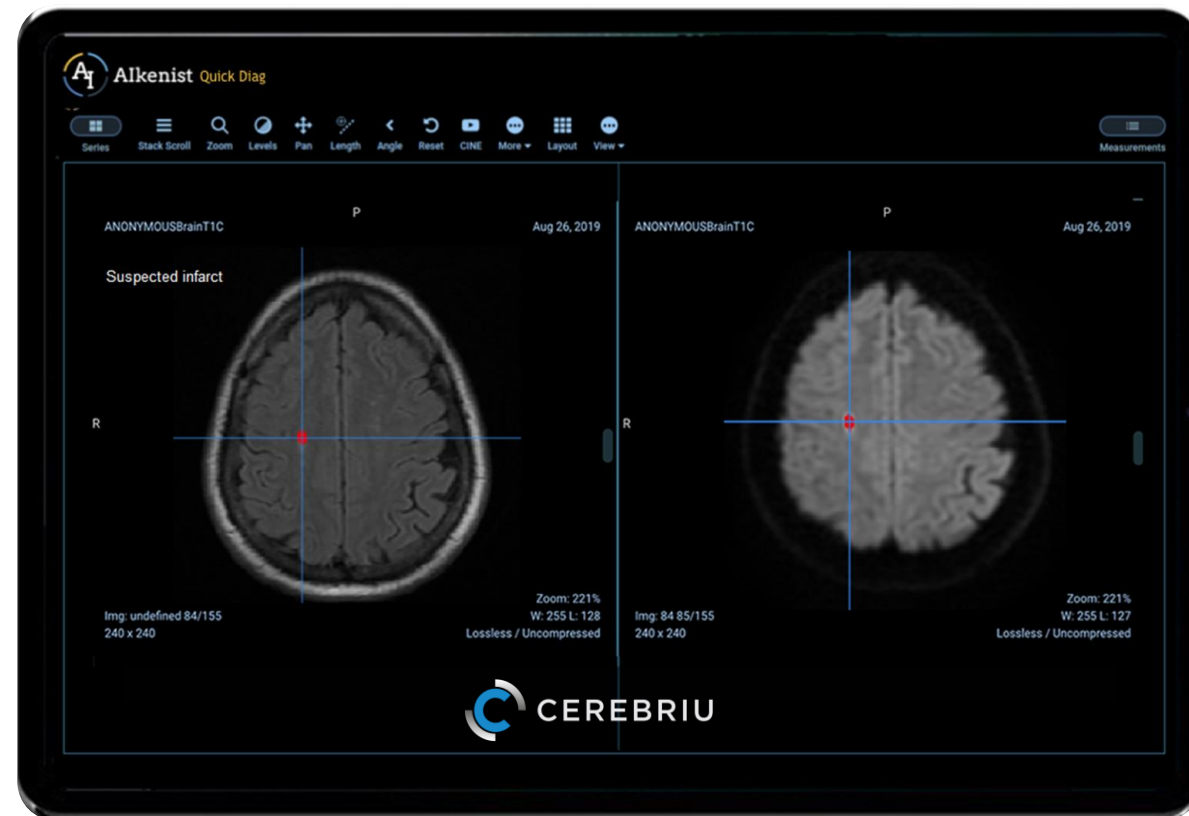
Candidate findings

Infarcts

Intracranial tumors

Intracranial hemorrhages

Cerebriu Brain (CE-marked).
Investigational use in US. Not
for clinical use in US.



CEREBRIU | brain for MRI is delivered by Aikenist QuickDiag for faster reporting and triage of critical patients.

QuickDiag - MR Stroke AI

Fast automatic detection of suspected infarcts with a sensitivity of 98% and specificity of 78%.

Automatic measure of infarct core volume at mean dice of 0.72 ± 0.18 pre-thrombectomy and 0.85 ± 0.12 post-thrombectomy

Automatic FLAIR-DWI mismatch ratio measured at mean dice of 0.8 ± 0.14 .

Modality

MRI

Body part

Brain

Clinical scenario

Emergency

Candidate findings

Infarcts

Infarct core volume

FLAIR-DWI mismatch

Cerebriu Stroke insights is for Investigational use only. Not for clinical use in US.



CEREBRIU stroke insights brain MRI delivered by Aikenist QuickDiag for faster, more efficient and confident stroke treatment decision.

QuickDiag - MR Stroke AI

Total Cases for Search 54

Emergency
Allotted
Unallotted
Approved
Completed
Search State
Search City

AI Result	AI Description	Upload Date	Patient Name	Patient ID	Modality	Description	Age /	Gender	Re
Result	AI Description	From - To	Patient Name	Patient ID	MR	Description	Gender	Gender	Status
●	Quickscan Processed	03-10-2023 17:46:43	Katrine B. Juhl	020885-2604	MR	+ MRI BRAIN	34Y / M	M	
●	Suspicion of Infarct, DWI-volume: 2.23, FLAIR-DWI-mismatch-ratio: 0.38	10-10-2023 20:49:32	Amanda A. Olesen	250476-0920	MR	+ MR Brain	43Y /		
●	Quickscan Processed	26-09-2023 19:45:58	SIDDAMMA	NMH000238	MR	+ MRI PELVIS ...	073Y / F	F	
●	Quickscan Processed	26-09-2023 19:20:26	Nicklas S. Lorenzen	300153-1025	MR	+ MR Brain	67Y /		
●	Quickscan Processed	26-09-2023 19:15:59	Marius N. Hansen	070554-1825	MR	+ MR Brain	65Y /		

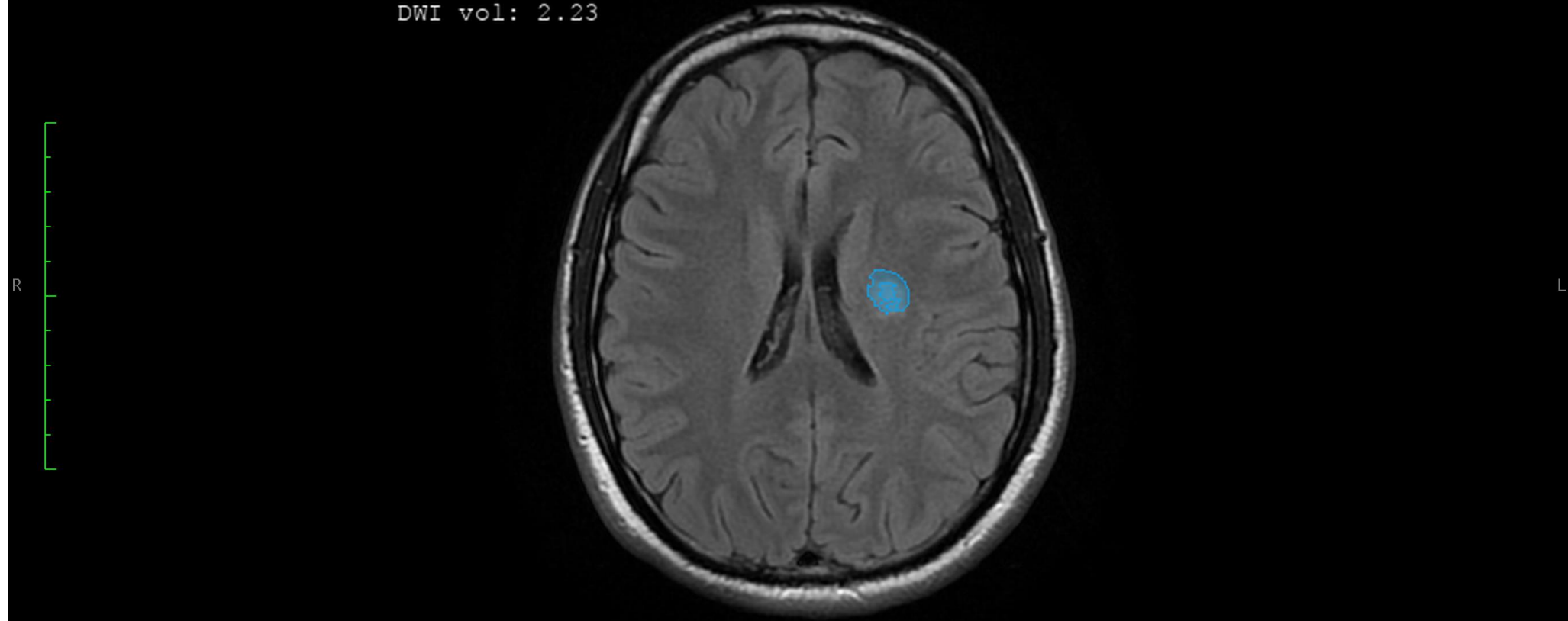
QuickDiag - MR Stroke AI

Image size: 512 x 512
View size: 2718 x 1596

AS

250476-0920 (33 y, -)
Mr Brain
0

Suspicion of infarct
FLAIR-DWI mismatch ratio: 0.38
FLAIR vol: 0.85
DWI vol: 2.23



> ■ ● Suspicion of Infarct, ... 10-10-2023 20:49:32 Amanda A. Olesen 250476-0920 MR MR Brain 43Y /

Uncompressed
Thickness: 6.50 mm Location: 18.74 mm
PI

QuickDiag - CT Stroke AI

Detection of
Ischemic and
Haemorrhagic
strokes

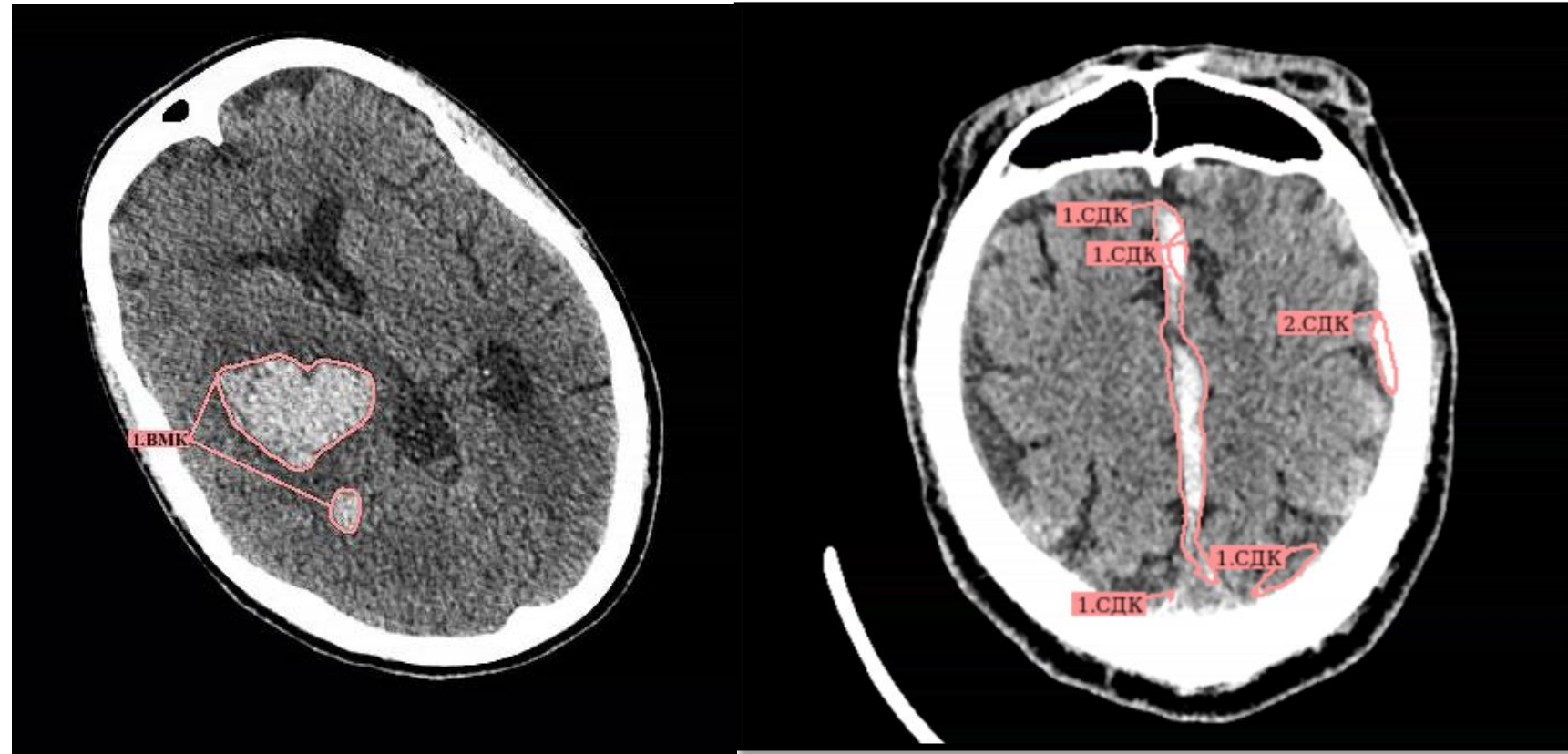
The processing time
of the study less
than 2 minutes

AUC = 0.94

Sensitivity = 0.93

Specificity = 0.90

Accuracy = 0.91



subdural hemorrhage
intracerebral hemorrhage

QuickDiag - Mammo Breast Cancer

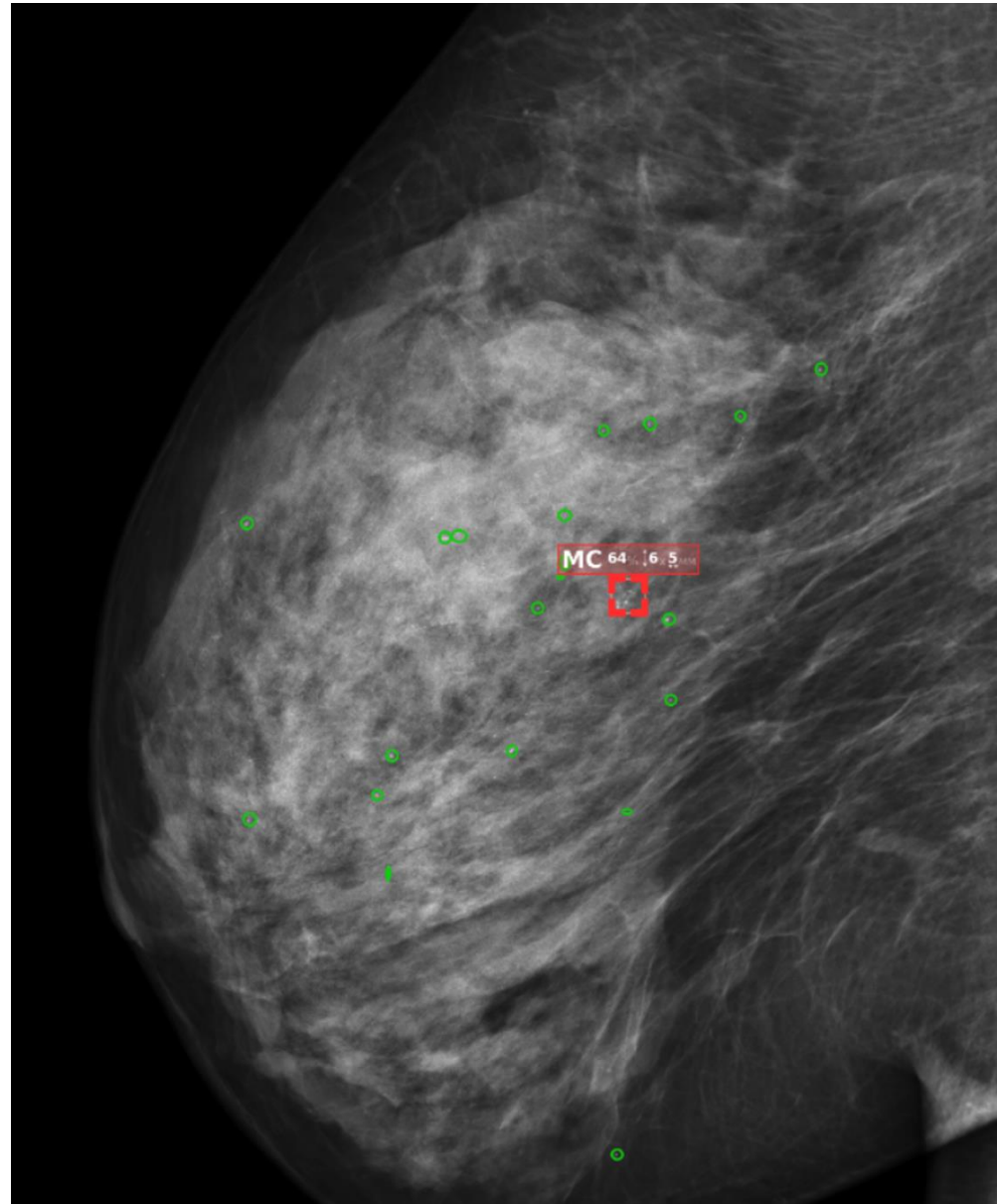
Processing time <
1 minute

AUC = 0.97

Sensitivity= 0.96

Specificity= 0.97

Accuracy= 0.97



Full name: Anonymized

Scan date: 03.02.2021

Birth date: N/A

Card number: N/A



Inversion



Pencil



Segment



Reset all changes

Result of pathology analysis

PGMI image quality grade: P

Right side (R):

- Structure of the breast according to ACR - C: mammary glands have a heterogeneous density or some areas of the mammary glands are quite dense and can hide small neoplasms. Ultrasound diagnostics are recommended;
- Benign calcinates detected;

QuickDiag - Xray AI Nodules

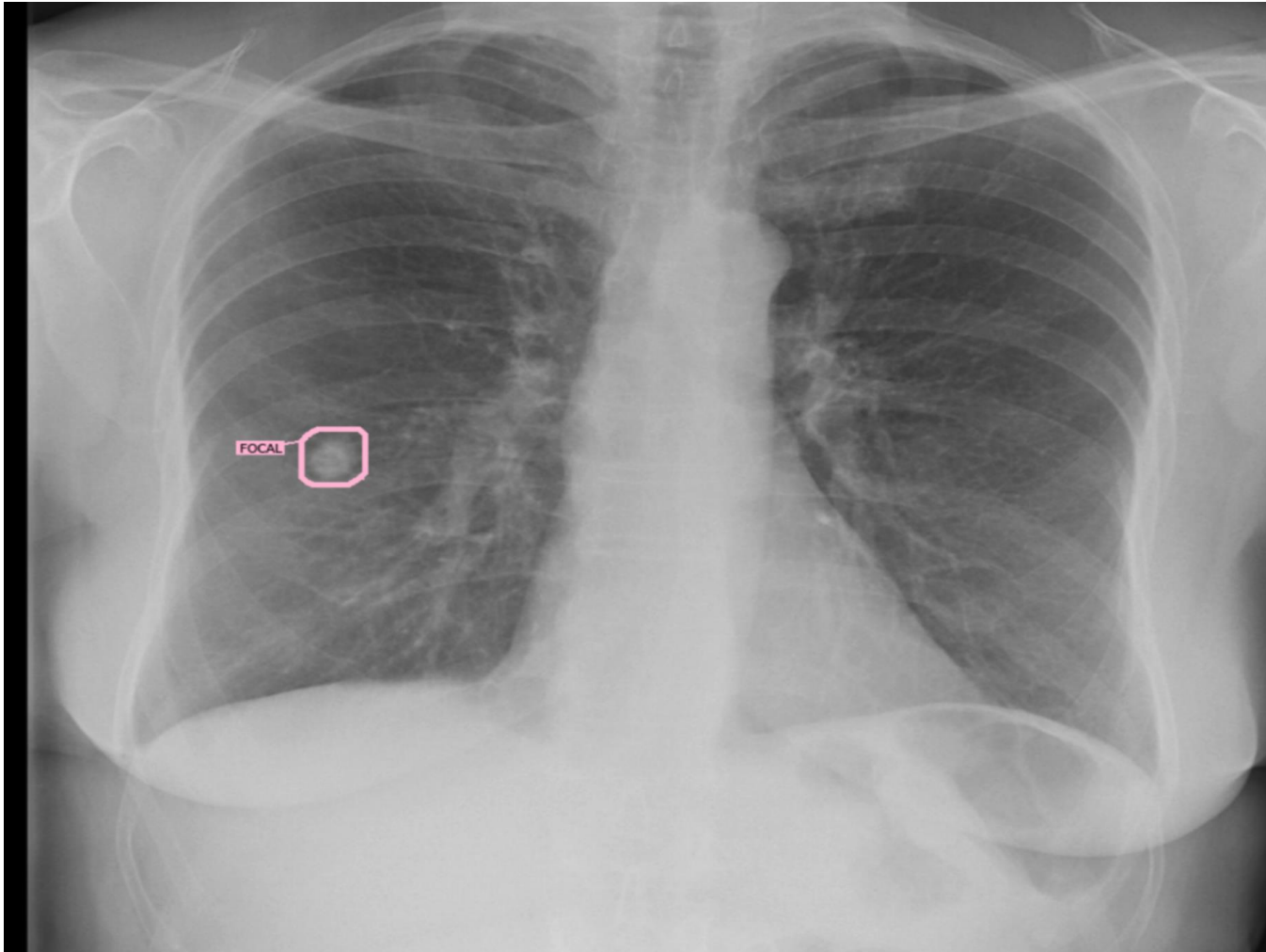
Processing
time < 10
seconds

AUC =
0.98

Sensitivity =
0.98

Specificity =
0.92

Accuracy =
0.95



Full name: 8d609680-2a71-49e7-949f-a4971ffc035b

Scan date: 01.01.1901

Birth date: N/A

Card number: 8d609680-2a71-49e7-949f-a4971ffc035b

Inversion Pencil

Segment



↻ Reset all changes

Result of pathology analysis

Pathological changes detected.
Probability 0.65.
The following radiographic signs detected:
- Nodules.

QuickDiag - MR Stroke AI

Image size: 4096 x 1686
View size: 1754 x 934

AS

250476-0920 (33 y, -)
Mr Brain
0

Suspicion of infarct
FLAIR-DWI mismatch ratio: 0.38 | FLAIR vol: 0.85 | DWI vol: 2.23

Uncompressed
Thickness: 6.50 mm Location: -154.16 mm

PI

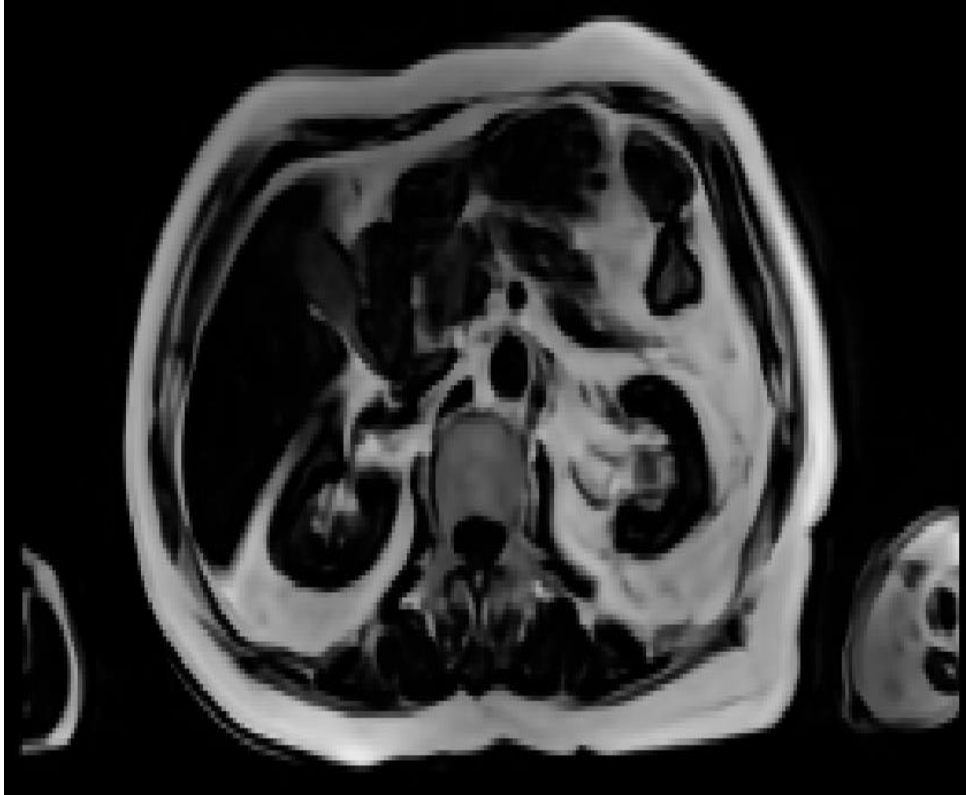
01/01/1901, 00.00.00
Made In Horos

QuickDiag - MR Perfusion

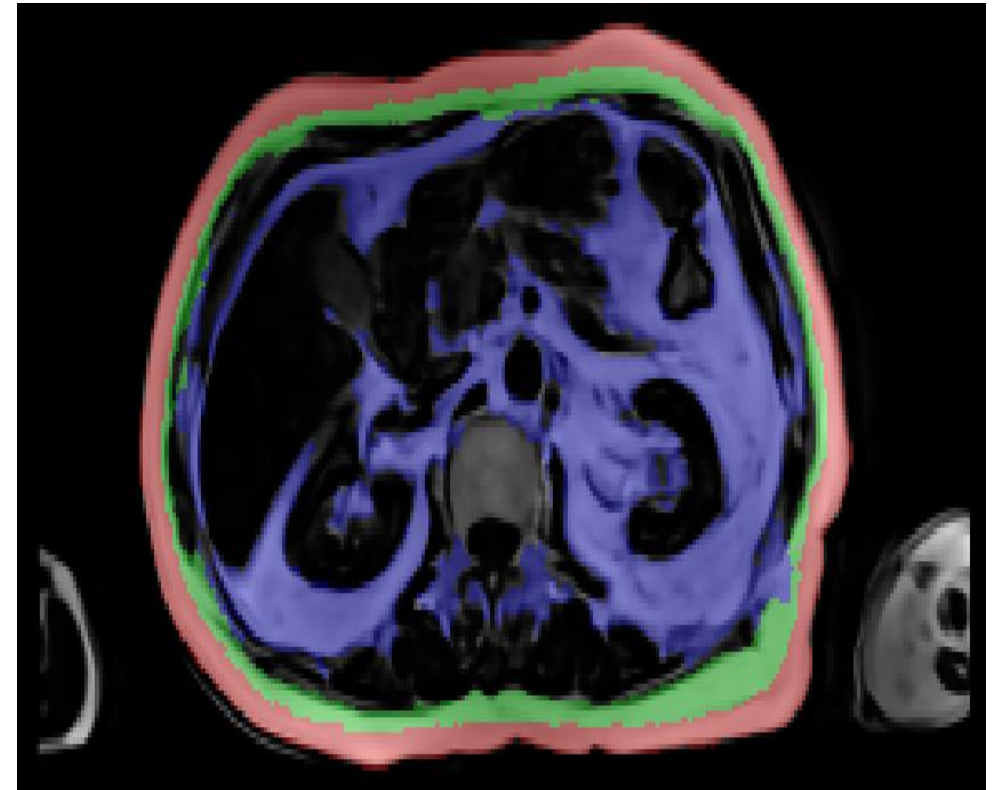
The screenshot displays the QuickDiag MR Perfusion software interface. At the top, a dark toolbar contains various icons for navigation and analysis, including a search icon, zoom in/out, pan, rotate, and a 'Report' button. Below the toolbar, the main window is divided into several sections:

- Left Panel (Studies):** Shows a list of studies for the date '06-Nov-2023'. The selected study is 'MR Perfusion' with 1460 images. Below it, three image thumbnails are visible, each with a series number 'S: 25' or 'S: 26' and a count of '20' images.
- Top Bar (Patient/Study Info):** Displays '06-Nov-2023 | 2_20s_frame_colormap'. On the right, it shows 'Sample_Perfusion' with a series indicator 'I: 11 (11/20)' and dimensions '128 x 128'.
- Main View:** A large axial brain MRI slice. A color-coded perfusion map is overlaid on the left side of the brain, showing areas of increased signal in shades of blue and purple. The letters 'A' and 'R' are positioned above and to the left of the brain slice, respectively, indicating anatomical orientation.

Abdomen Fat Quantification



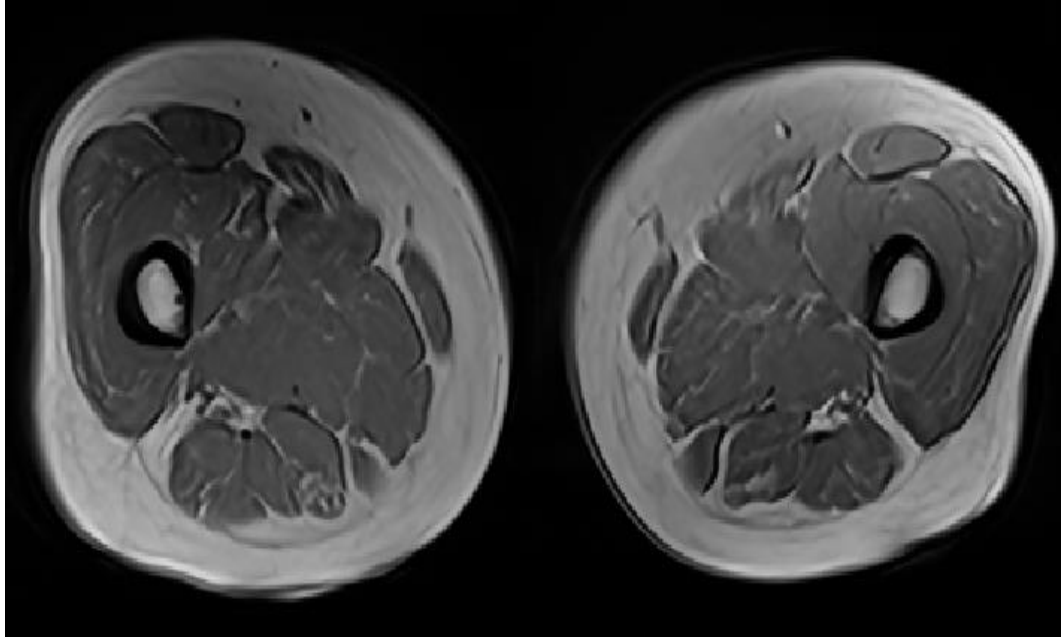
**Enhanced
Abdomen Scan**



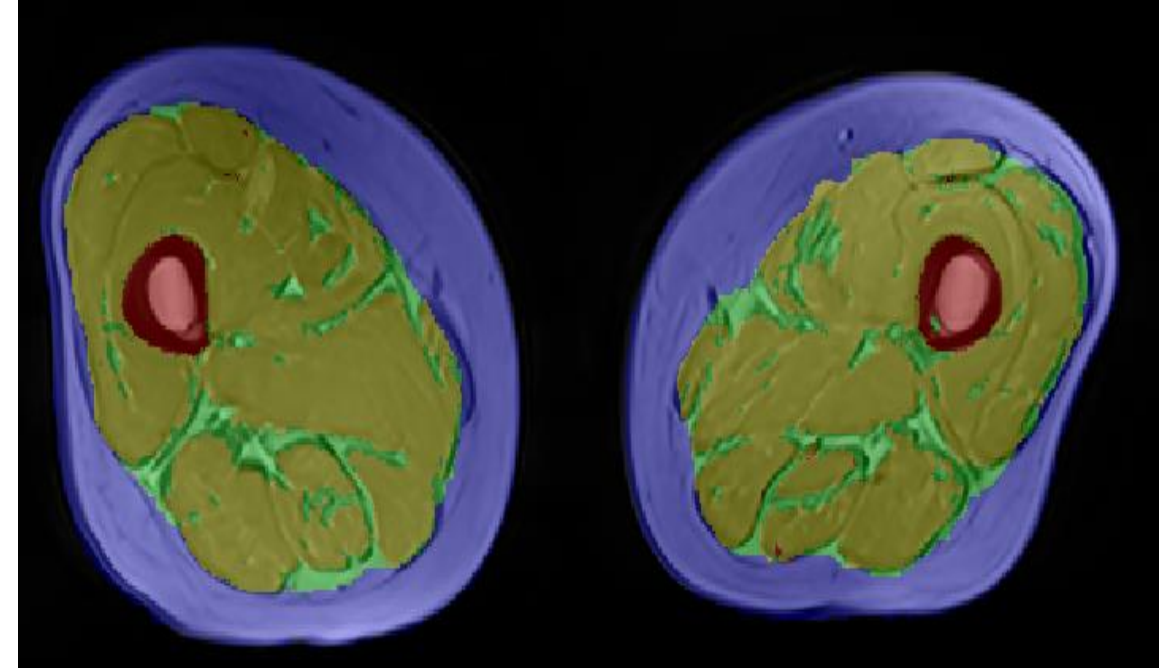
**Segmentation
SSAT, DSAT, VAT
Regions**

QuickScan MR improved segmentation accuracy of SSAT, DSAT & VAT

Thigh Fat Quantification



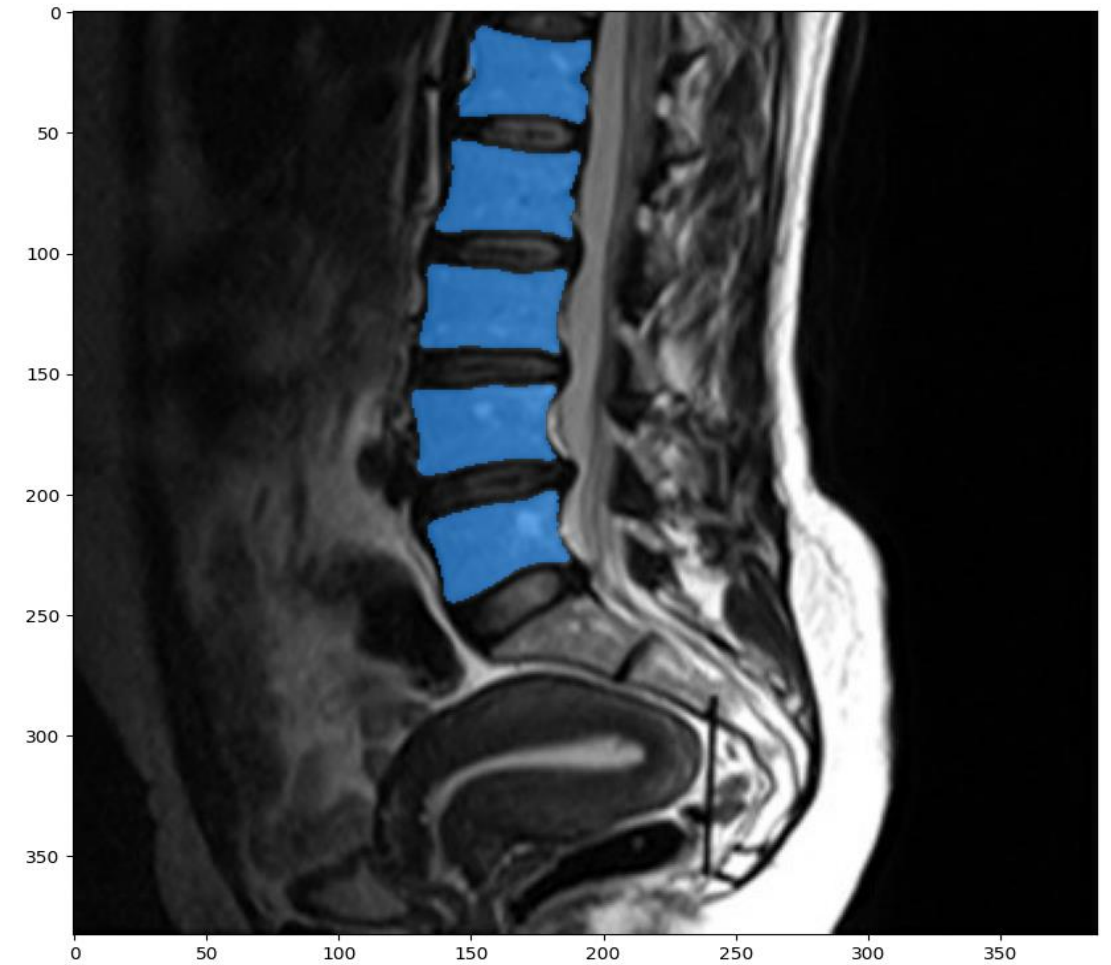
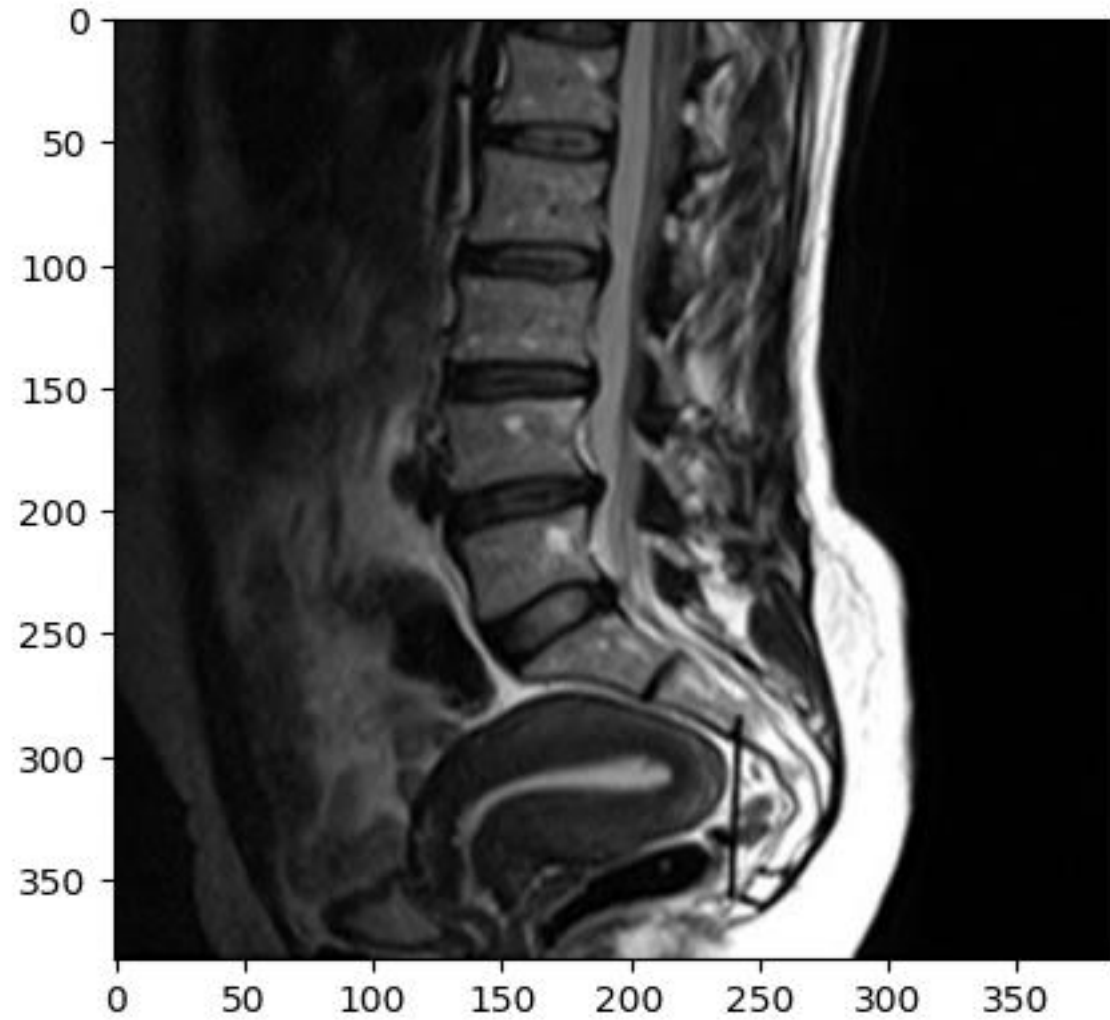
Enhanced
Abdomen Scan



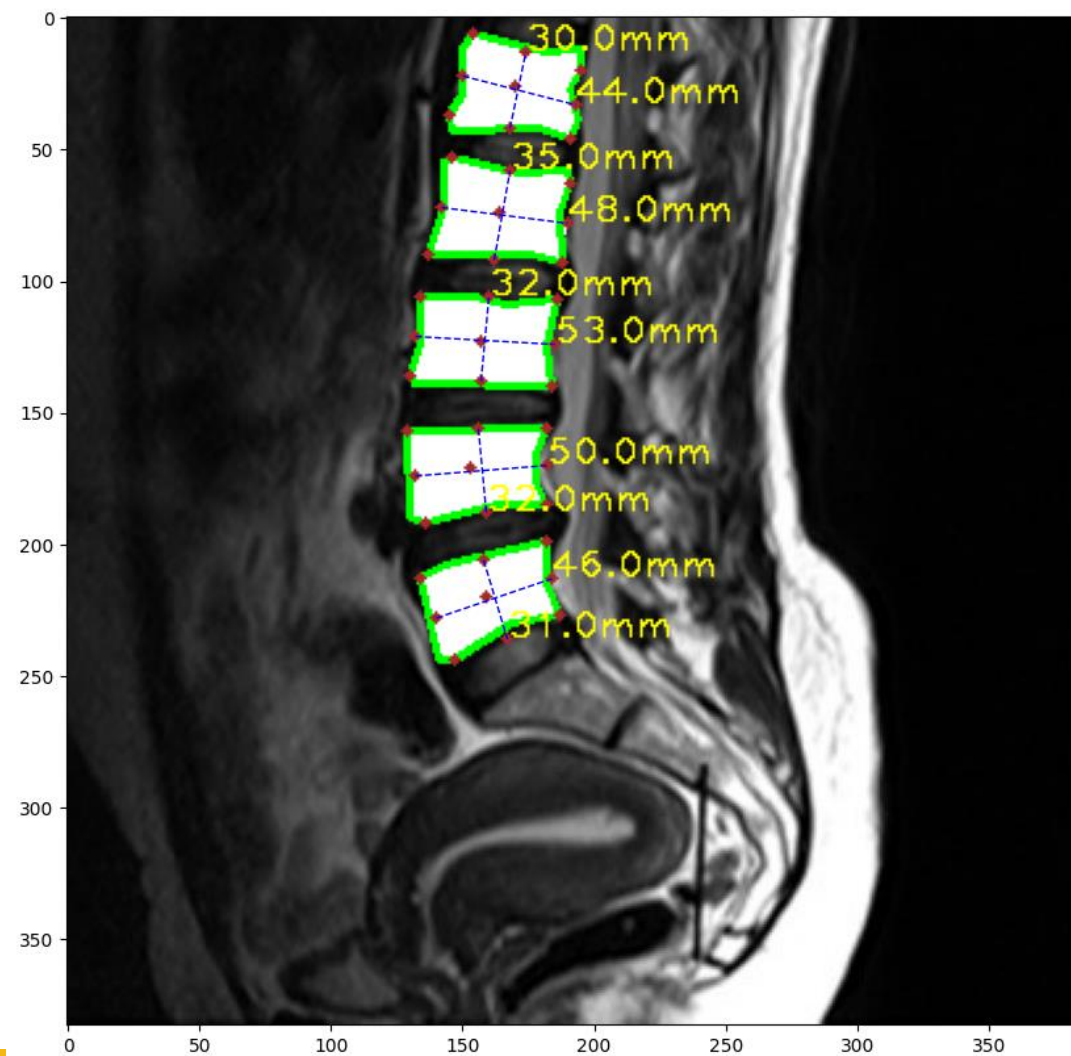
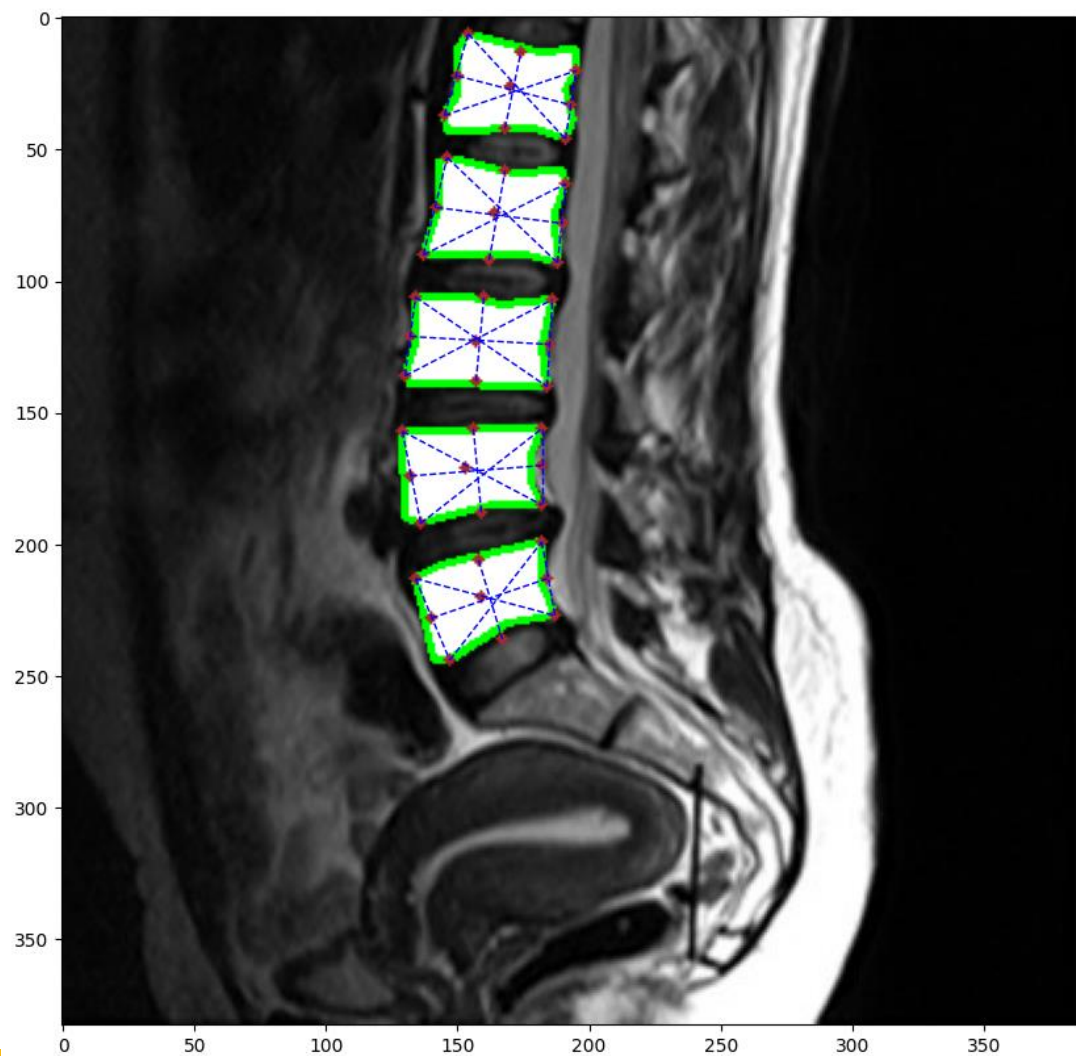
Segmentation Bone,
IMAT, Muscle, SAT
Regions

QuickScan MR improved segmentation accuracy of Bone, IMAT, Muscle , SAT Regions

Sample Images and Results



Sample Images and Results



Industry Recognition

AWARDS

Elevate 100

ZS Prize Top 20

CE Emerging Unicorn



PARTNERS



ASSOCIATIONS



CSIR - Centre for Cellular & Molecular Biology
Council of Scientific and Industrial Research
Ministry of Science & Technology, Govt. of India

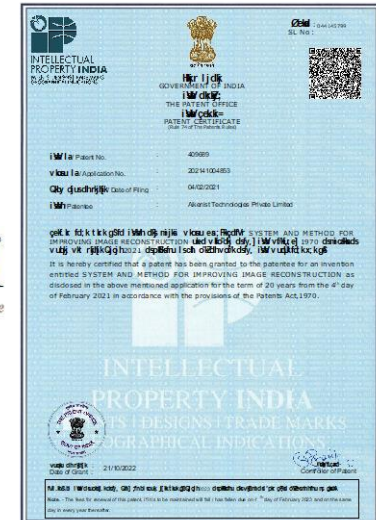
COMPLIANCE & PATENTS



13485
14971
62304



FDA and CE
are in process



Thank You!

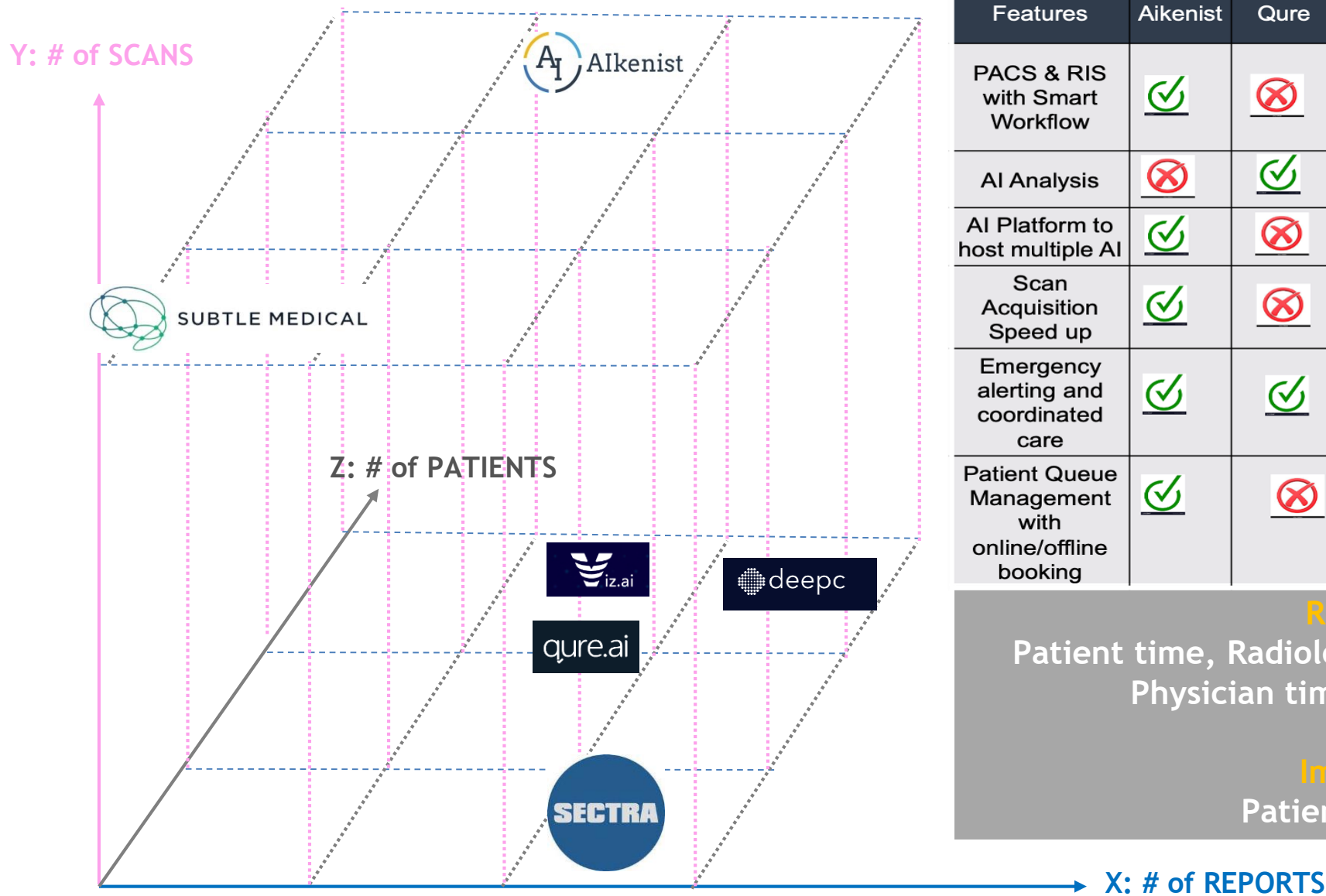
www.alkenist.com

contact@alkenist.com

Medical Imaging made **faster** and **convenient**.



Aikenist : Differentiators



Features	Aikenist	Qure	Viz	Spectra	Subtle	DeepC
PACS & RIS with Smart Workflow	✓	✗	✗	✓	✗	✗
AI Analysis	✗	✓	✓	✗	✗	✗
AI Platform to host multiple AI	✓	✗	✗	✗	✗	✓
Scan Acquisition Speed up	✓	✗	✗	✗	✓	✗
Emergency alerting and coordinated care	✓	✓	✓	✗	✗	✗
Patient Queue Management with online/offline booking	✓	✗	✗	✗	✗	✗

Reduces
 Patient time, Radiologist time, Scanning time, Physician time, Diagnostic cost

Improves
 Patient outcome

Radiology industry evolution is similar to Pathology

A DECADE AGO

TODAY

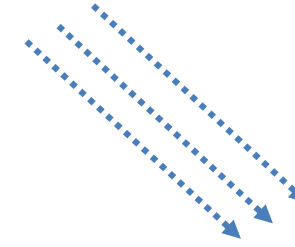
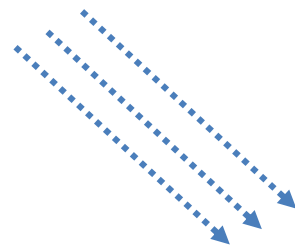
A DECADE LATER



- Underutilized machines
- Unpredictable wait time
- Delays - Manual reports

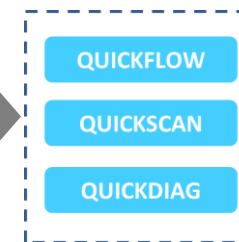
**LAB TESTS
(Pathology)**

- Significant increase in utilization of machines
- No wait time, collection at home
- Automated reports via mail / WA



**IMAGING
(Radiology)**

- **Underutilized machines**
- **Unpredictable wait time**
- **Delays - Manual reports**



Aikenist Quicksuite is ready for a future where customers

- (1) Walk in to the scanning
- (2) Complete scan in a few mins
- (3) Have the report mailed/WA < 1 hour

QuickDiag - MR Brain AI

Fast automatic detection of candidate findings with a sensitivity of 98% and specificity of 78% on infarcts, and 86% and 82% on hemorrhages respectively.

Brain MRI analysis and mark-up of regions of interest and findings tagged for PACS in DICOM and PDF formats.

Fully integrated into Aikenist QuickDiag for seamless workflows.

Modality

MRI

Body part

Brain

Clinical scenario

Emergency

Routine

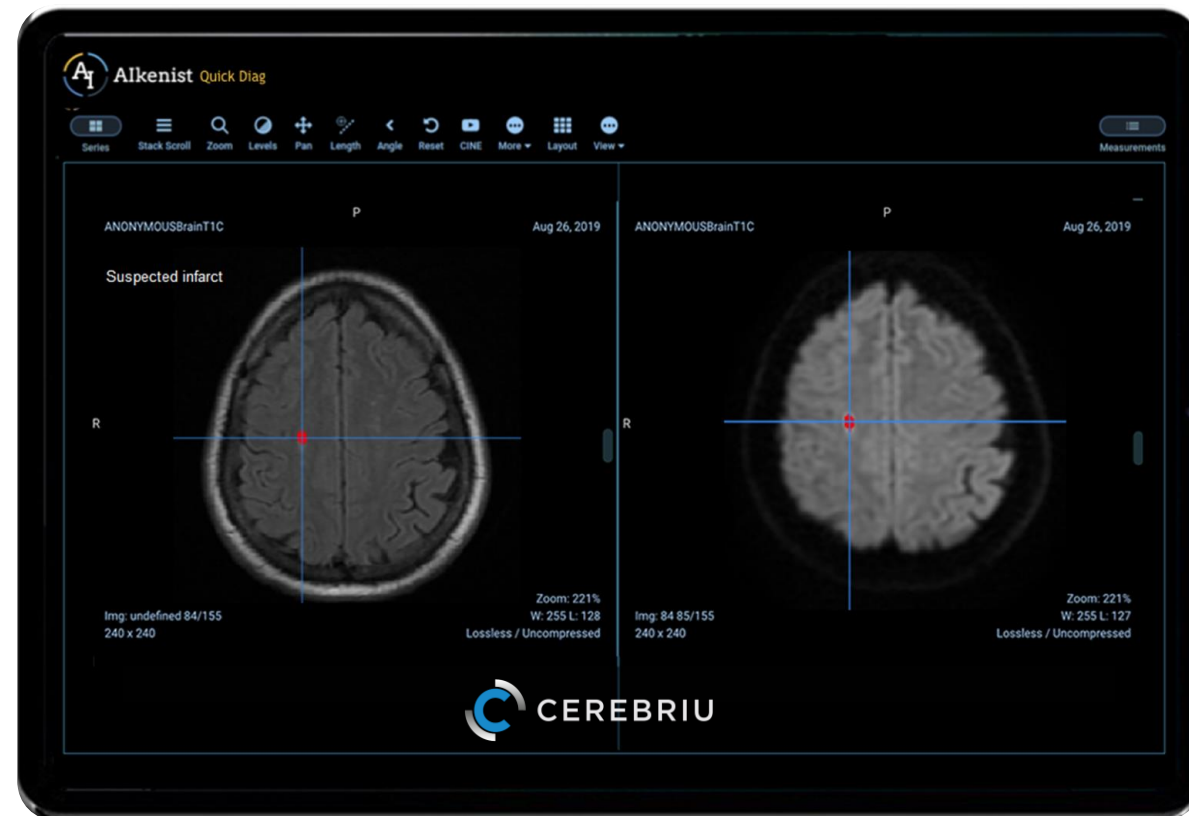
Candidate findings

Infarcts

Intracranial tumors

Intracranial hemorrhages

Cerebriu Brain (CE-marked).
Investigational use in US. Not
for clinical use in US.



CEREBRIU | brain for MRI is delivered by Aikenist QuickDiag for faster reporting and triage of critical patients.

QuickDiag - Stroke

Fast automatic detection of suspected infarcts with a sensitivity of 98% and specificity of 78%.

Automatic measure of infarct core volume at mean dice of 0.72 ± 0.18 pre-thrombectomy and 0.85 ± 0.12 post-thrombectomy

Automatic FLAIR-DWI mismatch ratio measured at mean dice of 0.8 ± 0.14 .

Modality

MRI

Body part

Brain

Clinical scenario

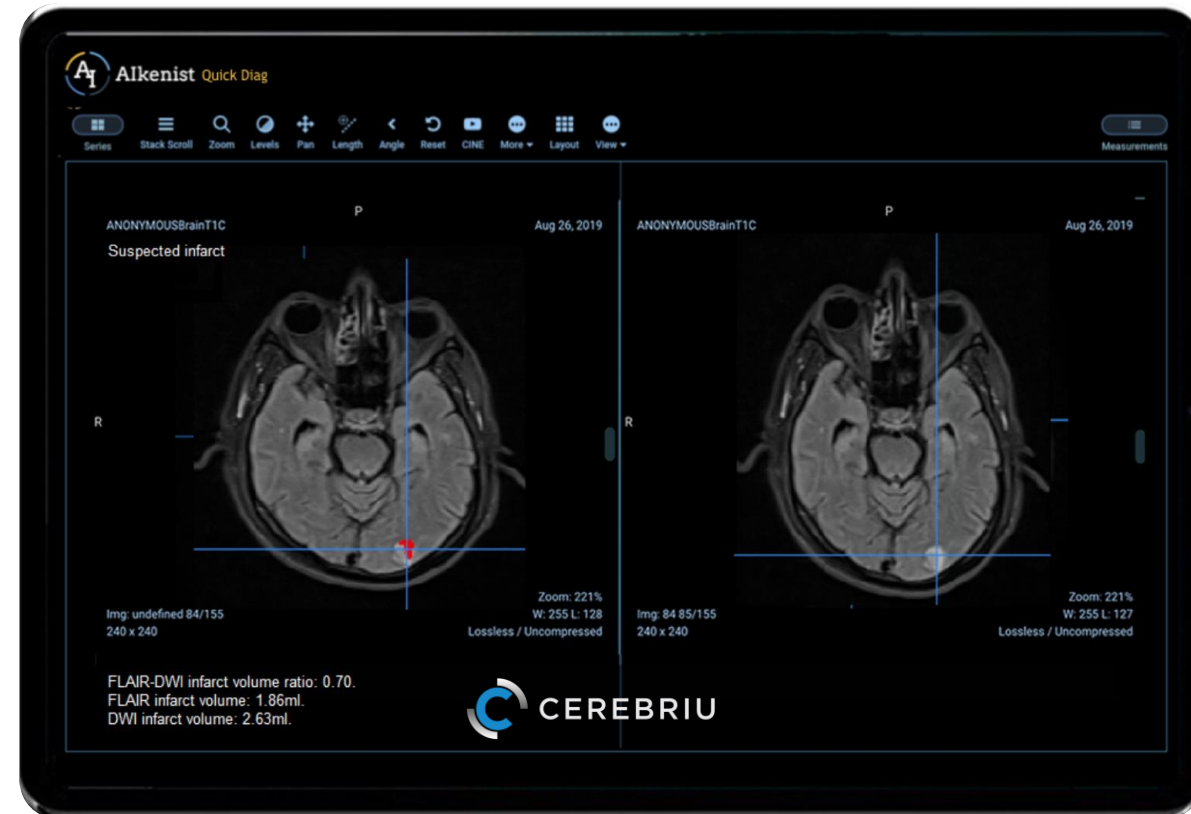
Emergency

Candidate findings

Infarcts

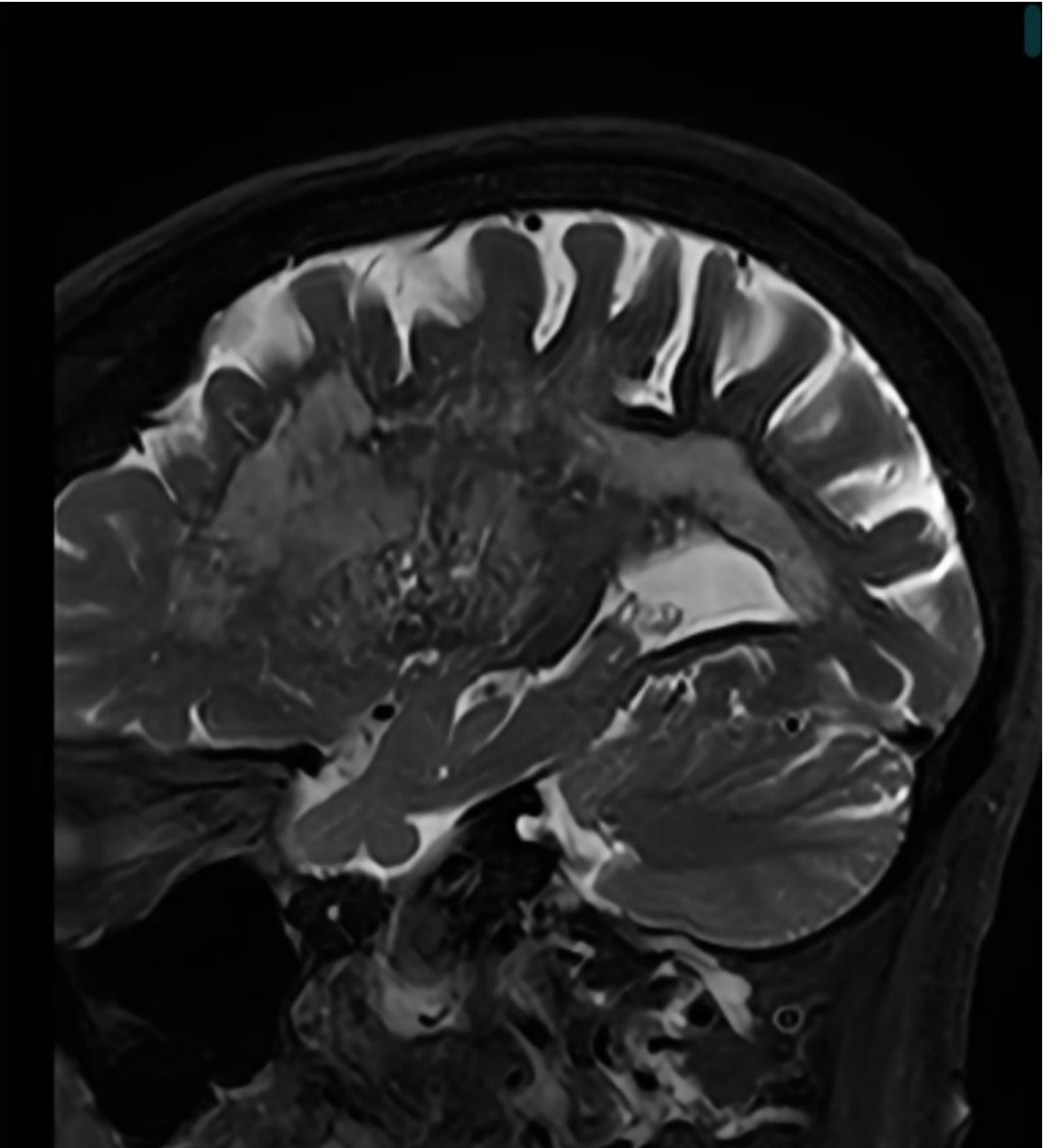
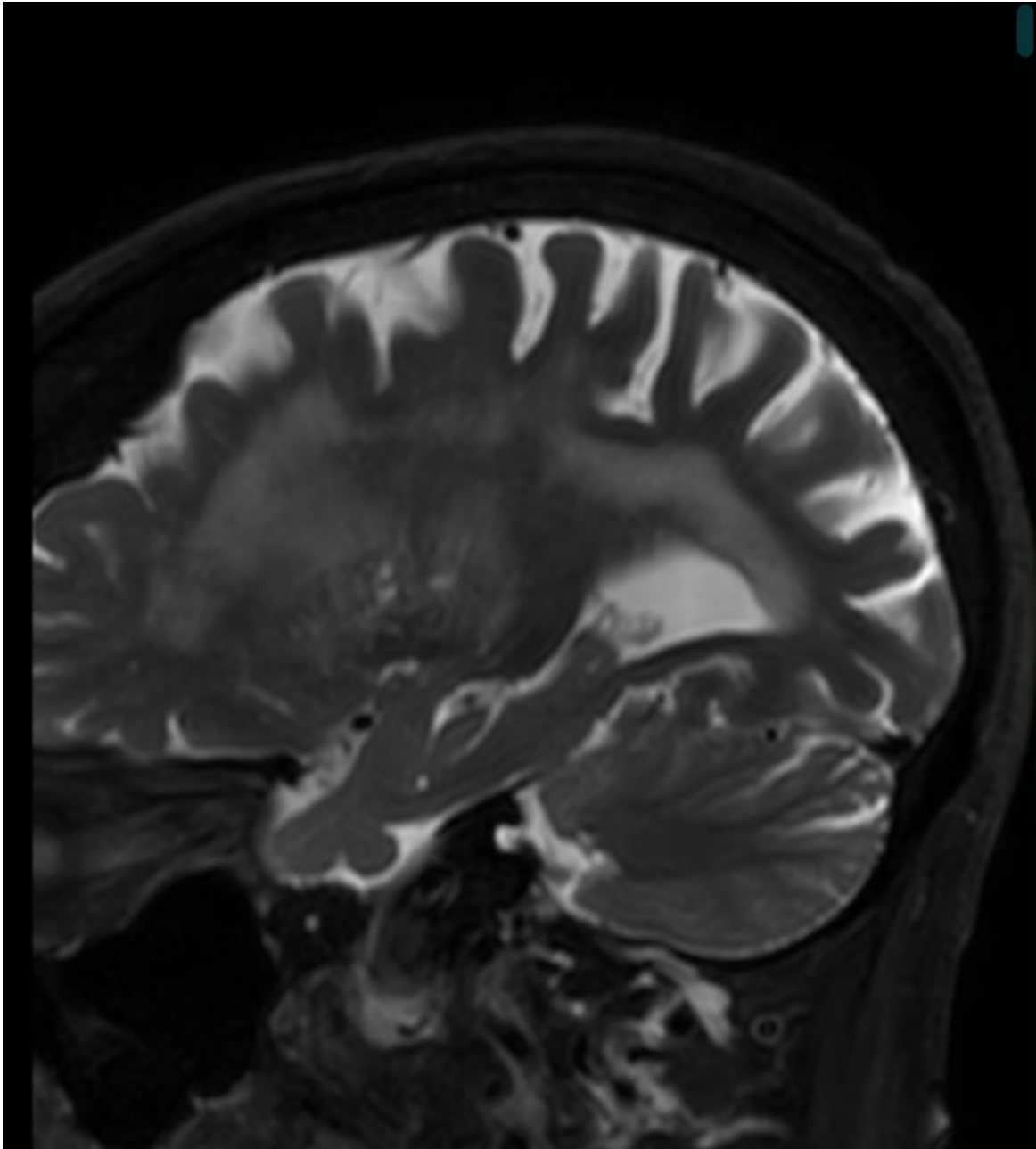
Infarct core volume

FLAIR-DWI mismatch

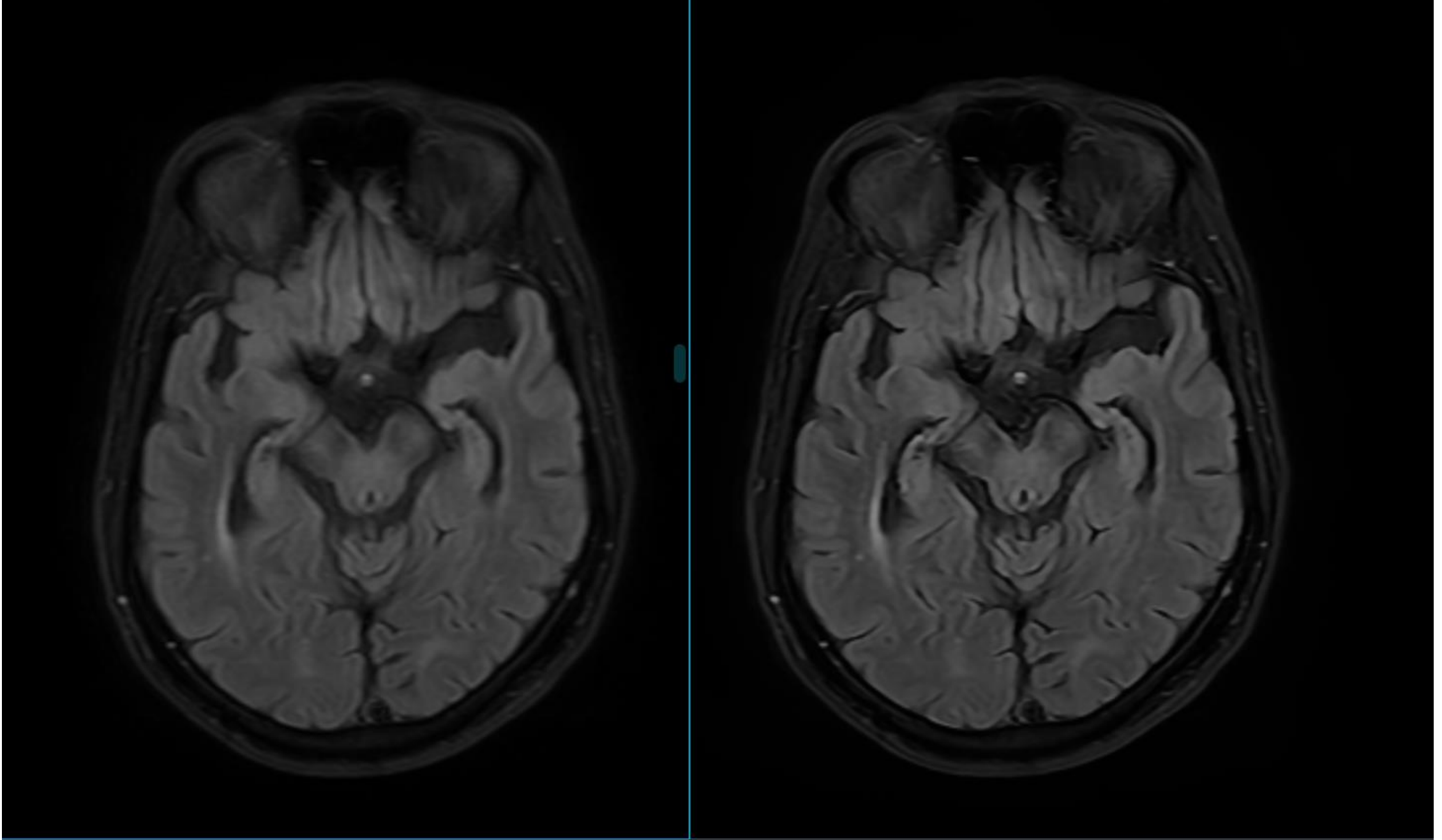


CEREBRIU stroke insights brain MRI delivered by Aikenist QuickDiag for faster, more efficient and confident stroke treatment decision.

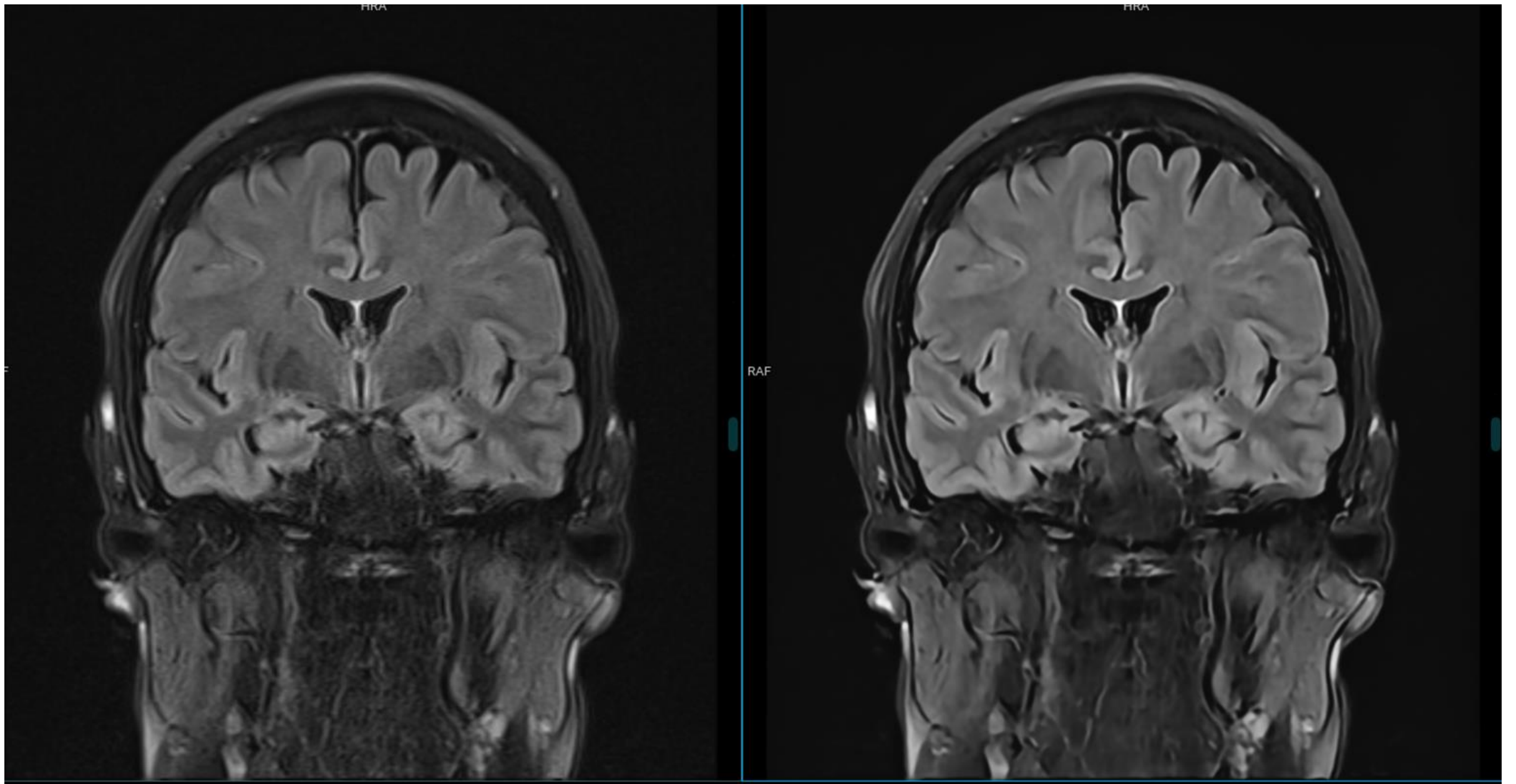
Cerebriu Stroke insights is for Investigational use only. Not for clinical use in US.



T2 sagittal showing better tissue contrast, white matter and surrounding perivascular spaces in the aged brain



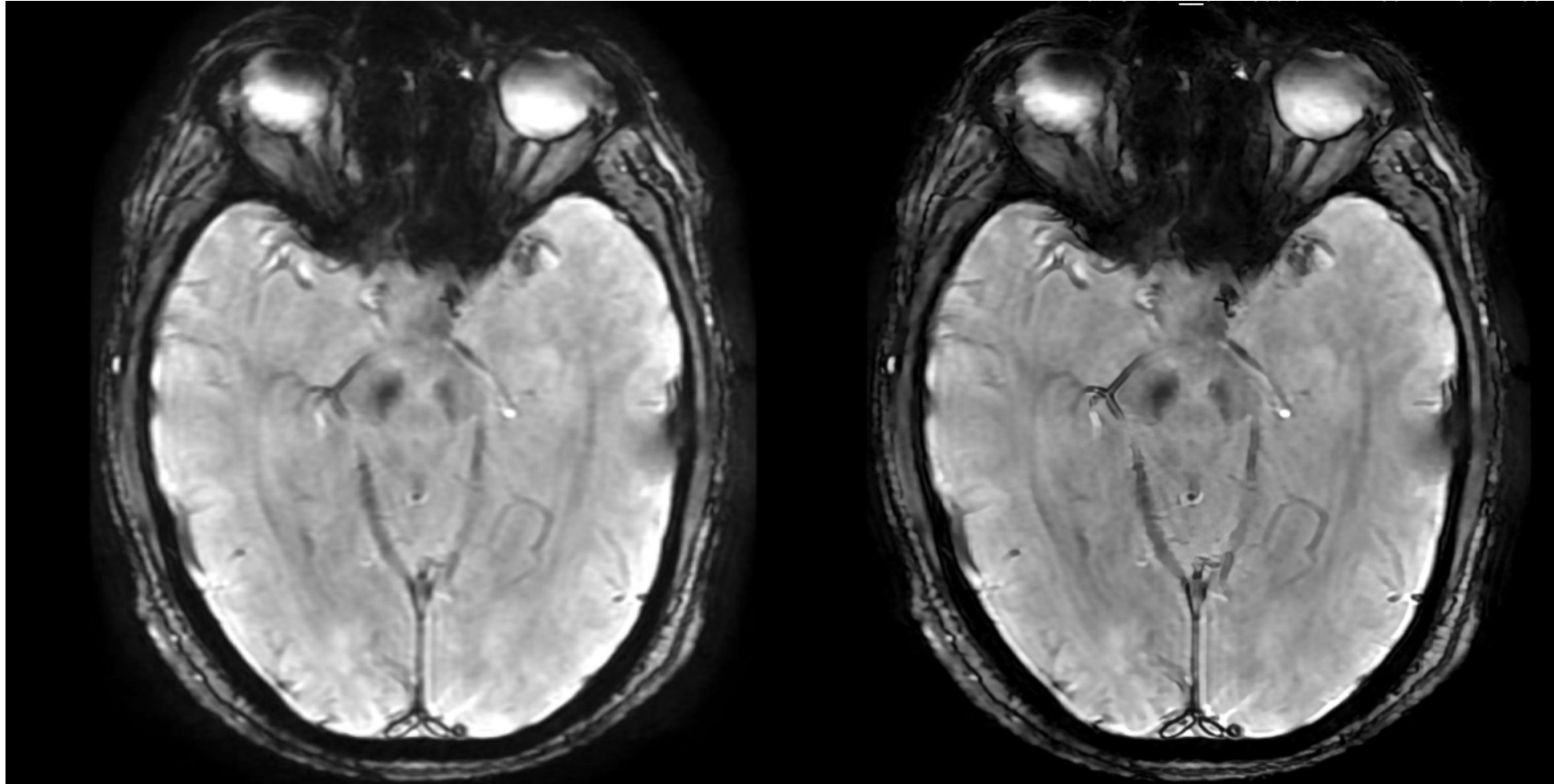
Axial Flair image of the brain showing better tissue contrast with more detailing of the hippocampus regions



FLAIR Coronal showing better tissue contrast with more importance to the temporal region

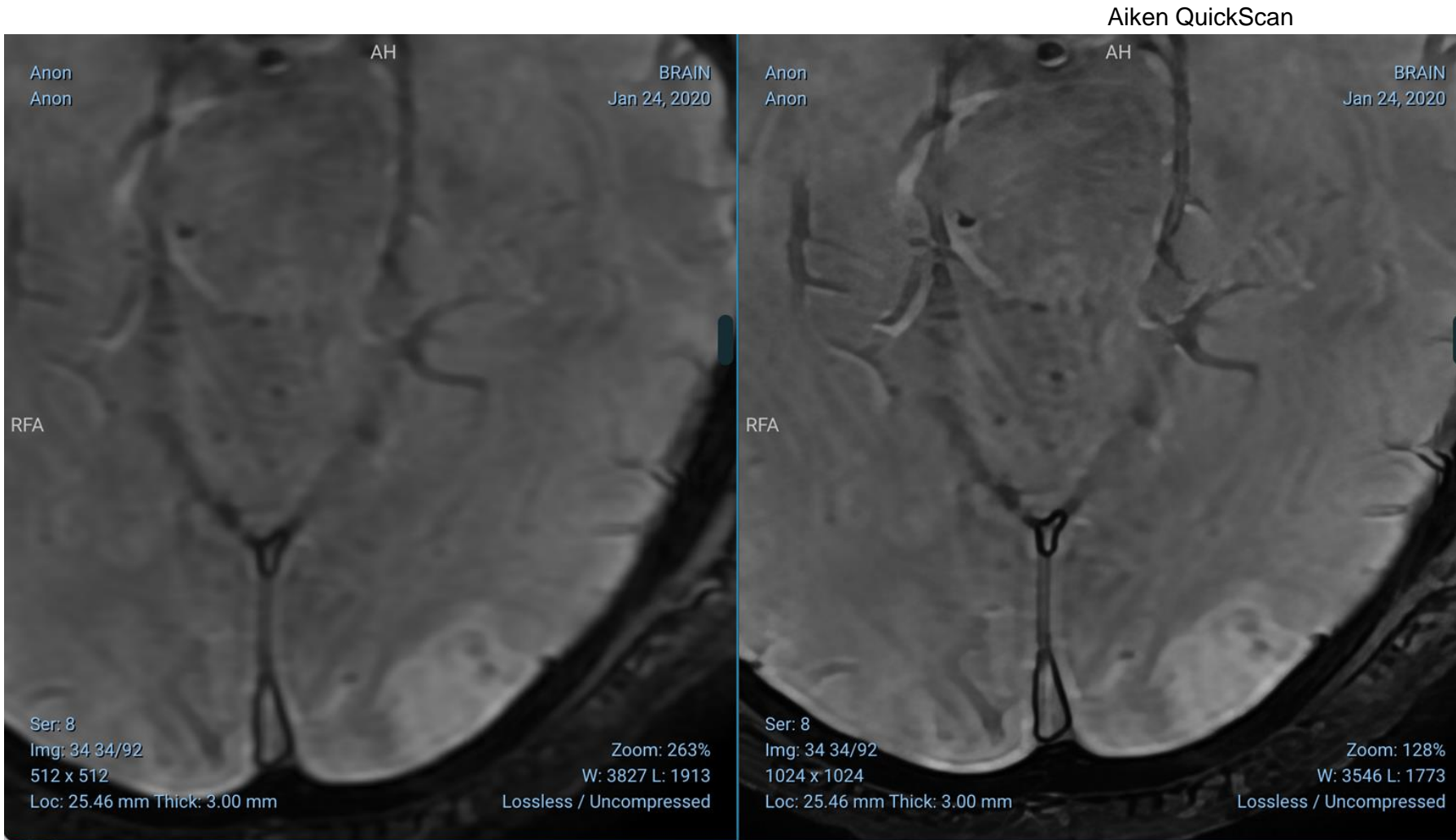
Quickscan examples

Aiken QuickScan

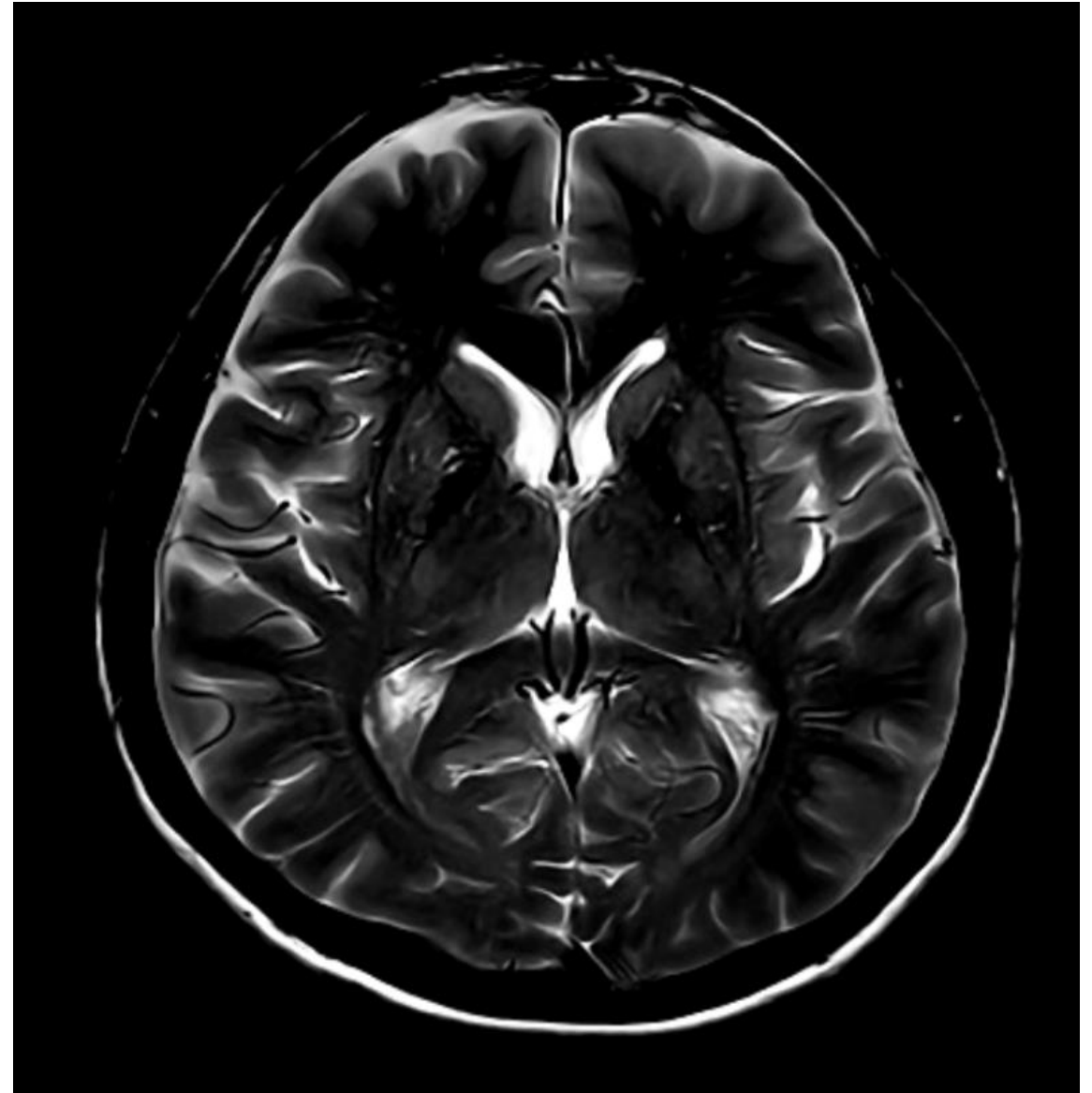
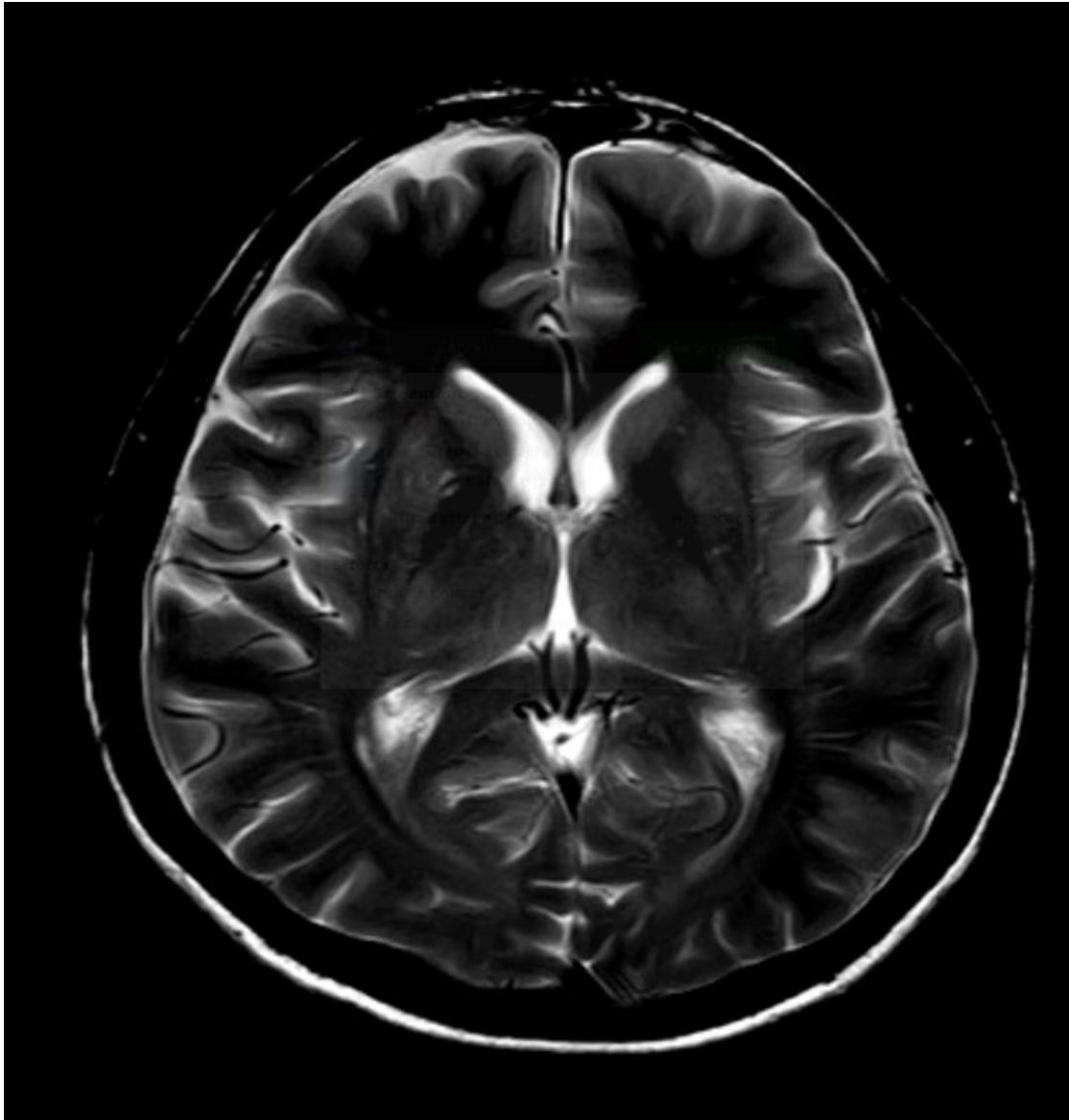


Brain GRE Axial zoomed view with better contrast and deblurring. Mid brain appears better and better vessel margins

Quickscan examples



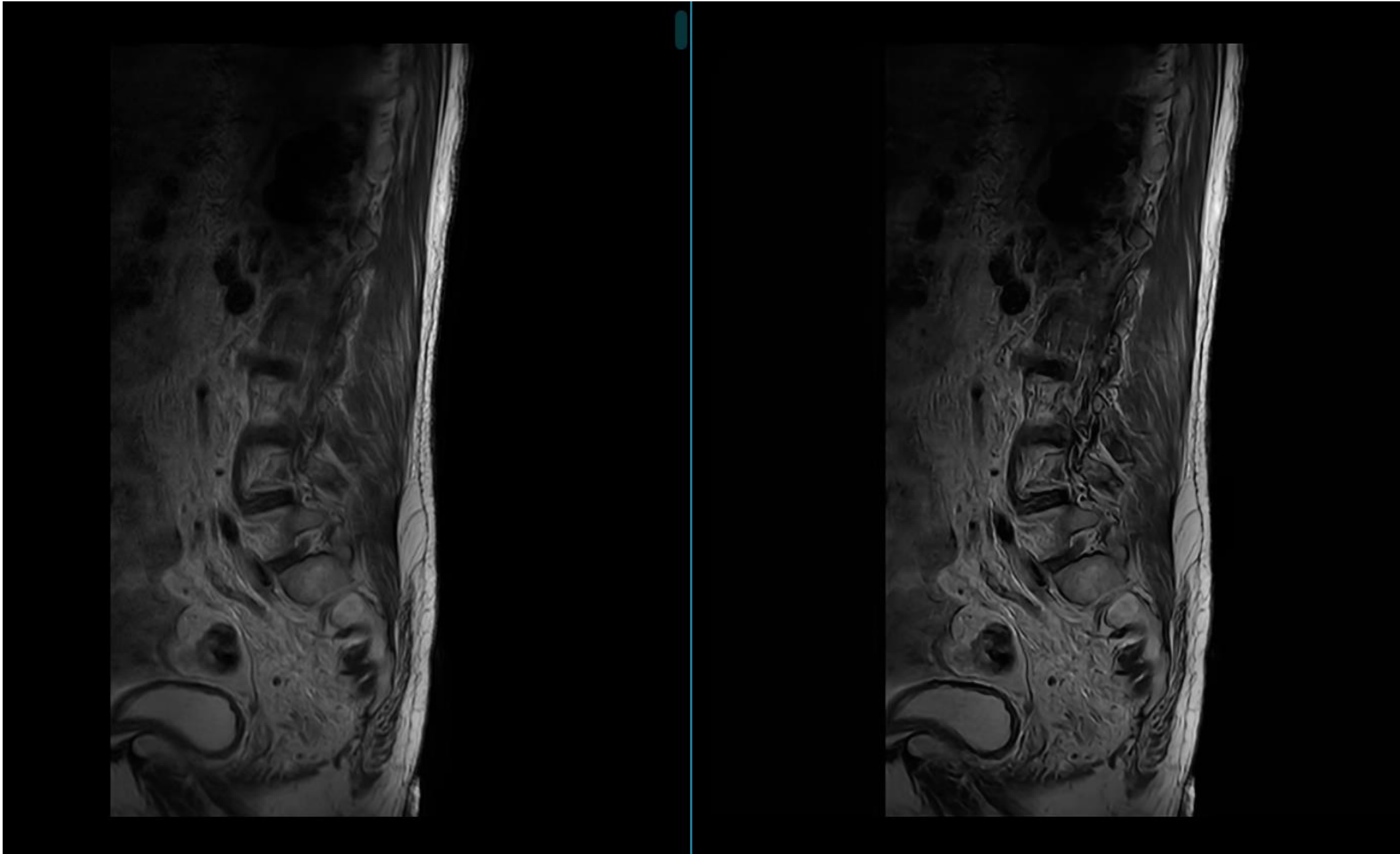
Brain Axial zoomed view better contrast and deblurring. The area of pathology and left occipital lobe looks better in Quickscan



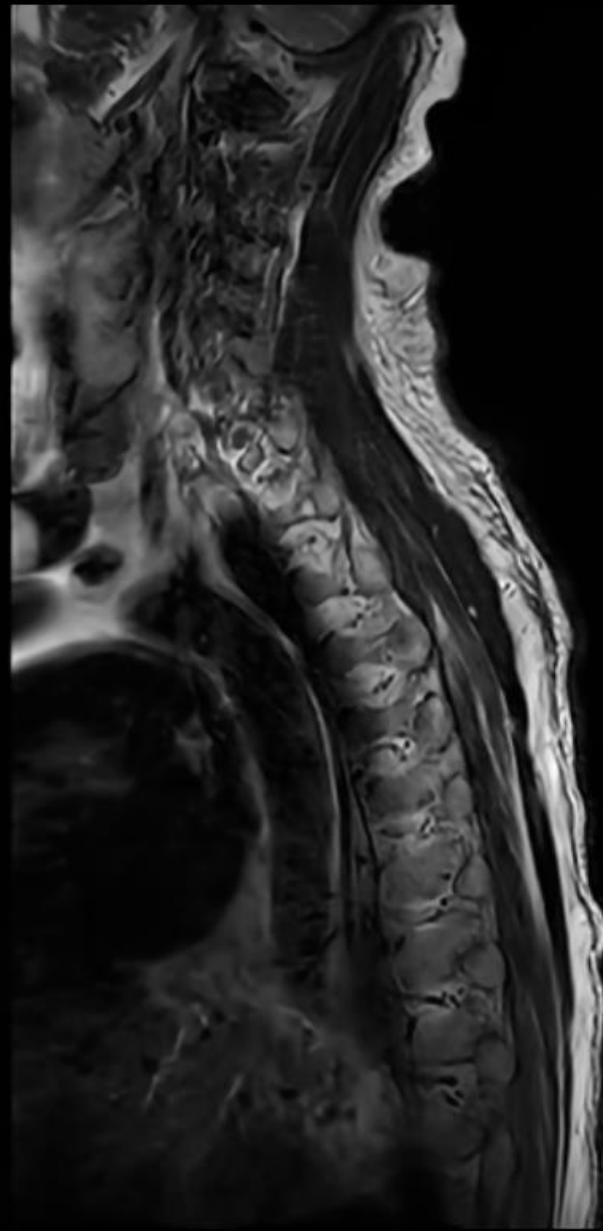
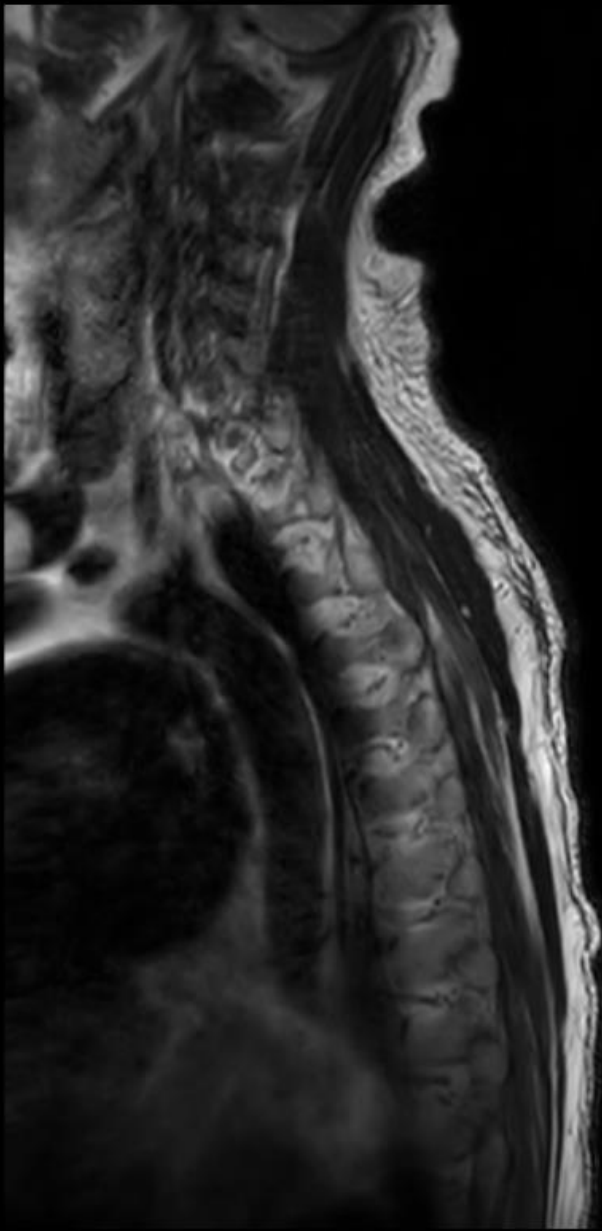
Axial T2 Brain showing better tissue contrast, vascular margins and peri vascular spaces



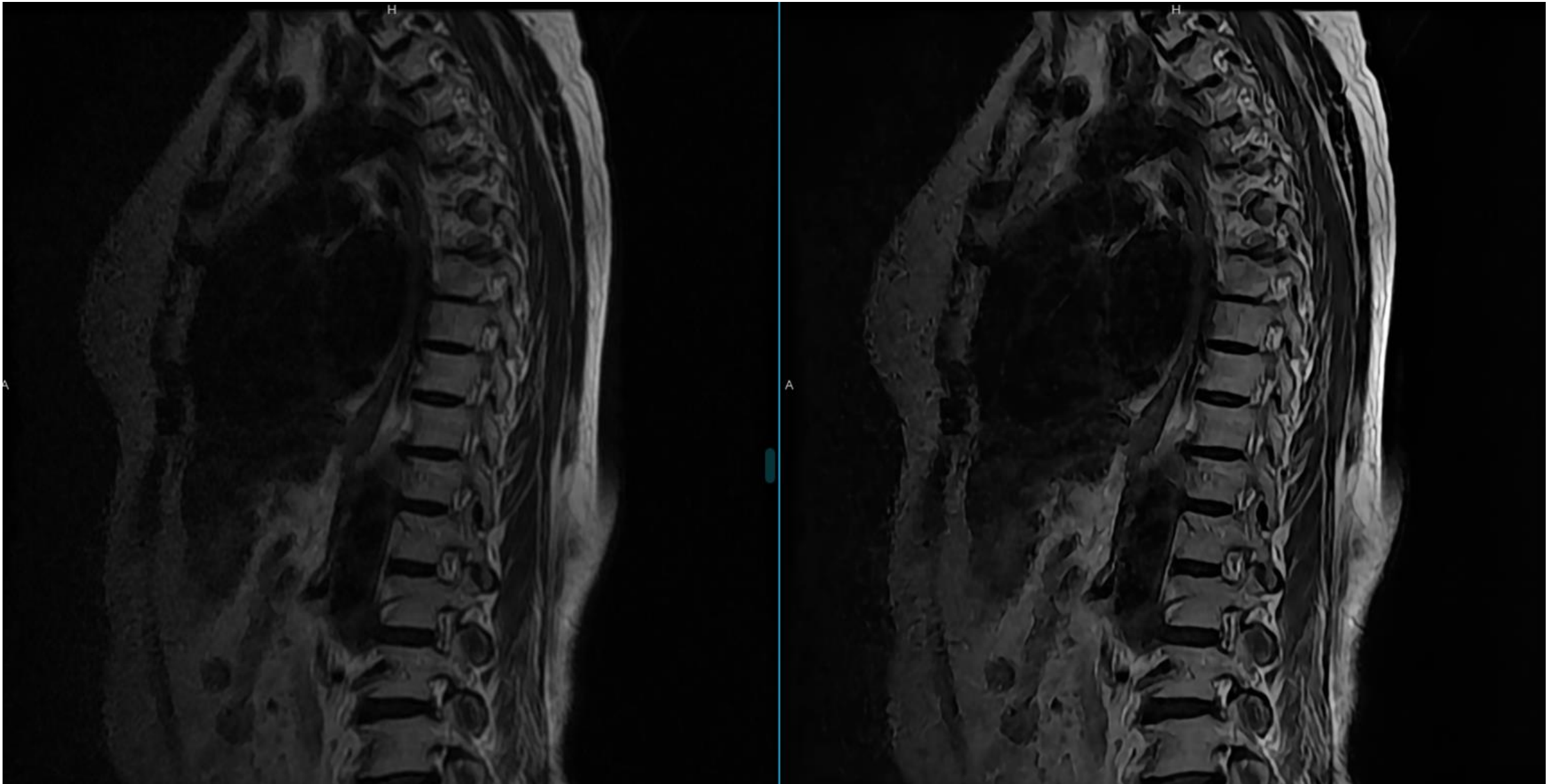
T2 sagittal spine. Better bone marrow signals with detailing and pathologies in the intervertebral disc



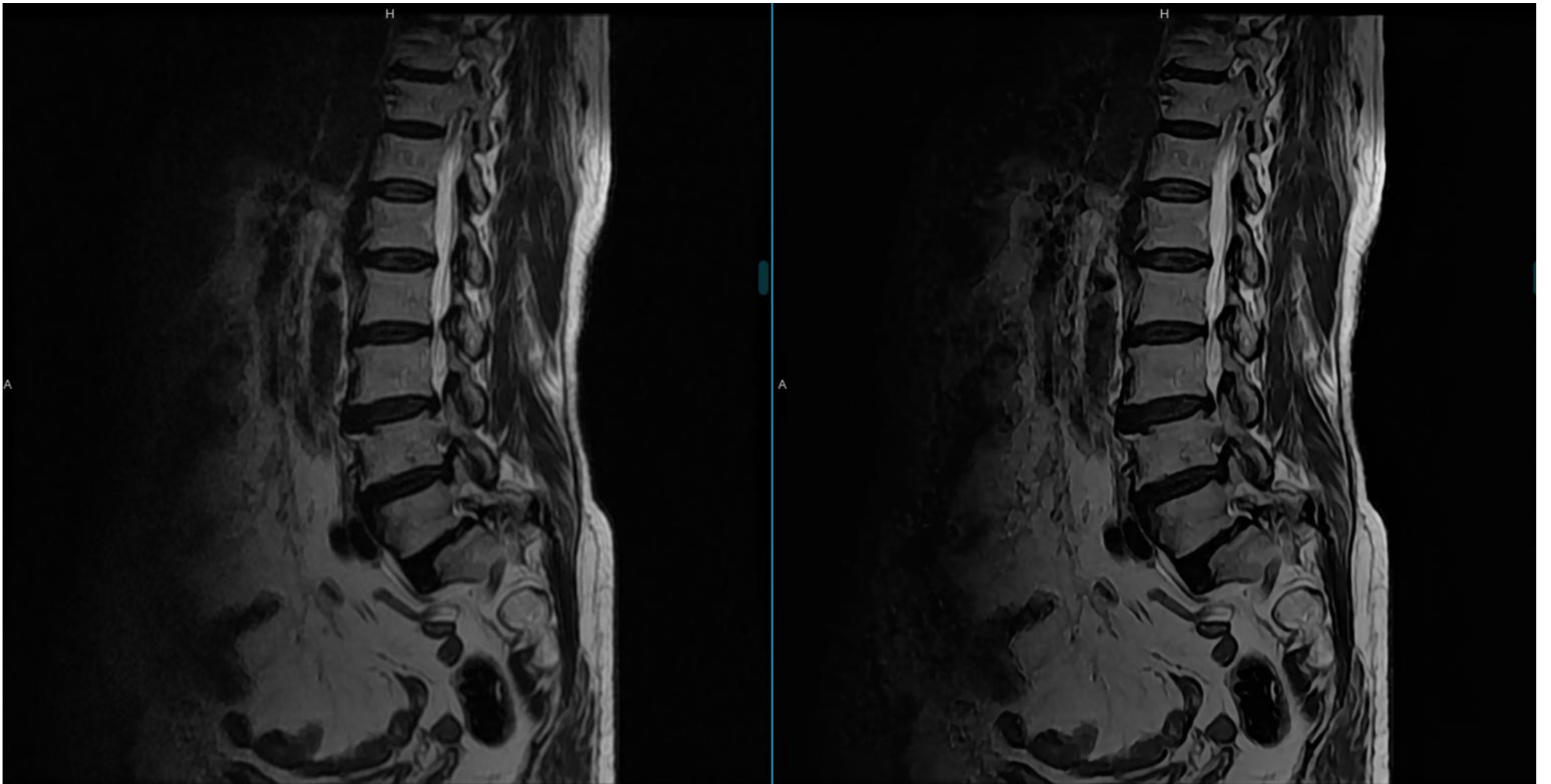
T2 sagittal spine. Better detailing of the posterior spinal muscles and presacral fat



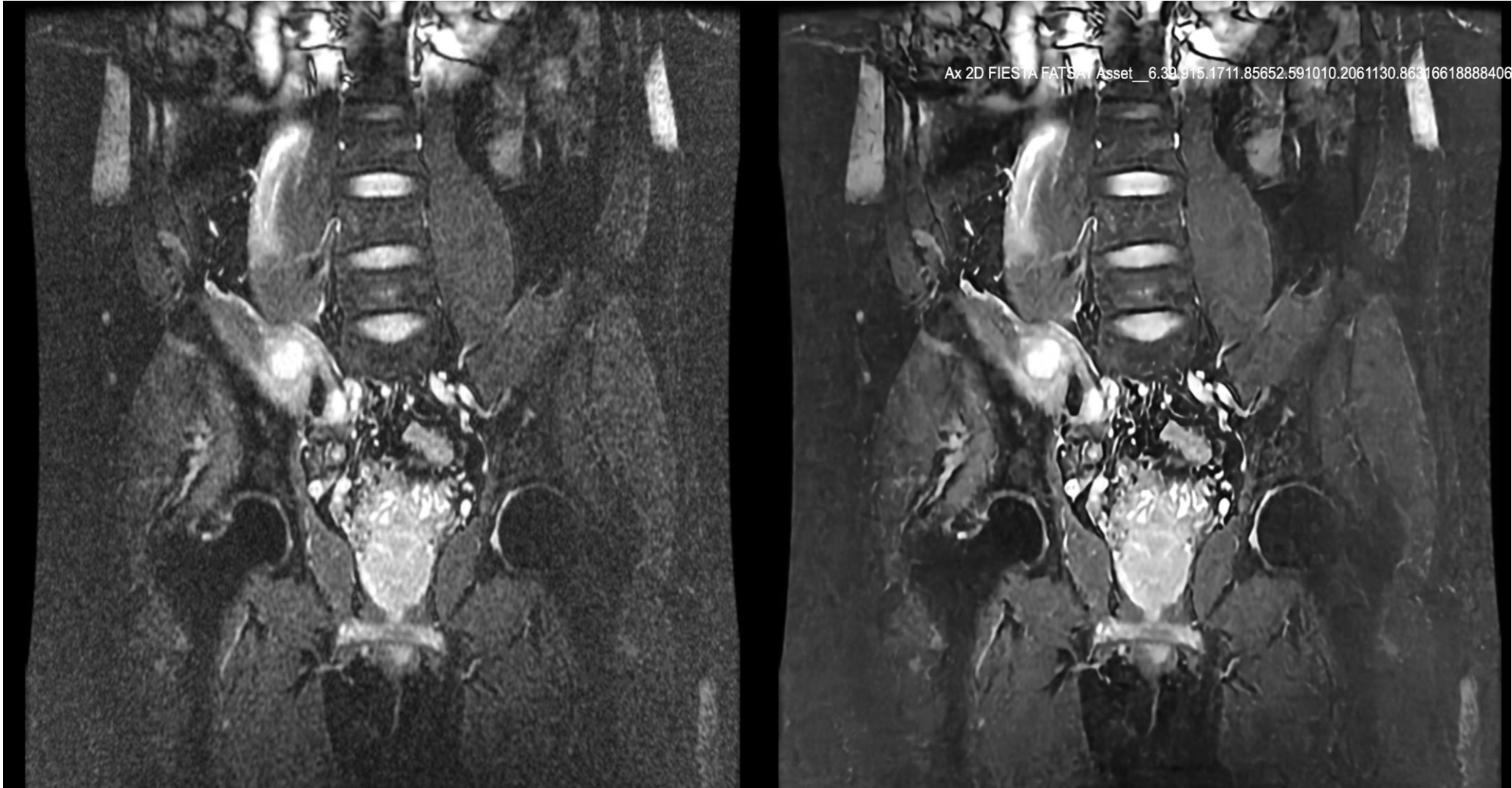
T2 sagittal c-spine covering arch of aorta which has better margins than the source image. Detailing of the spine and posterior spine muscles



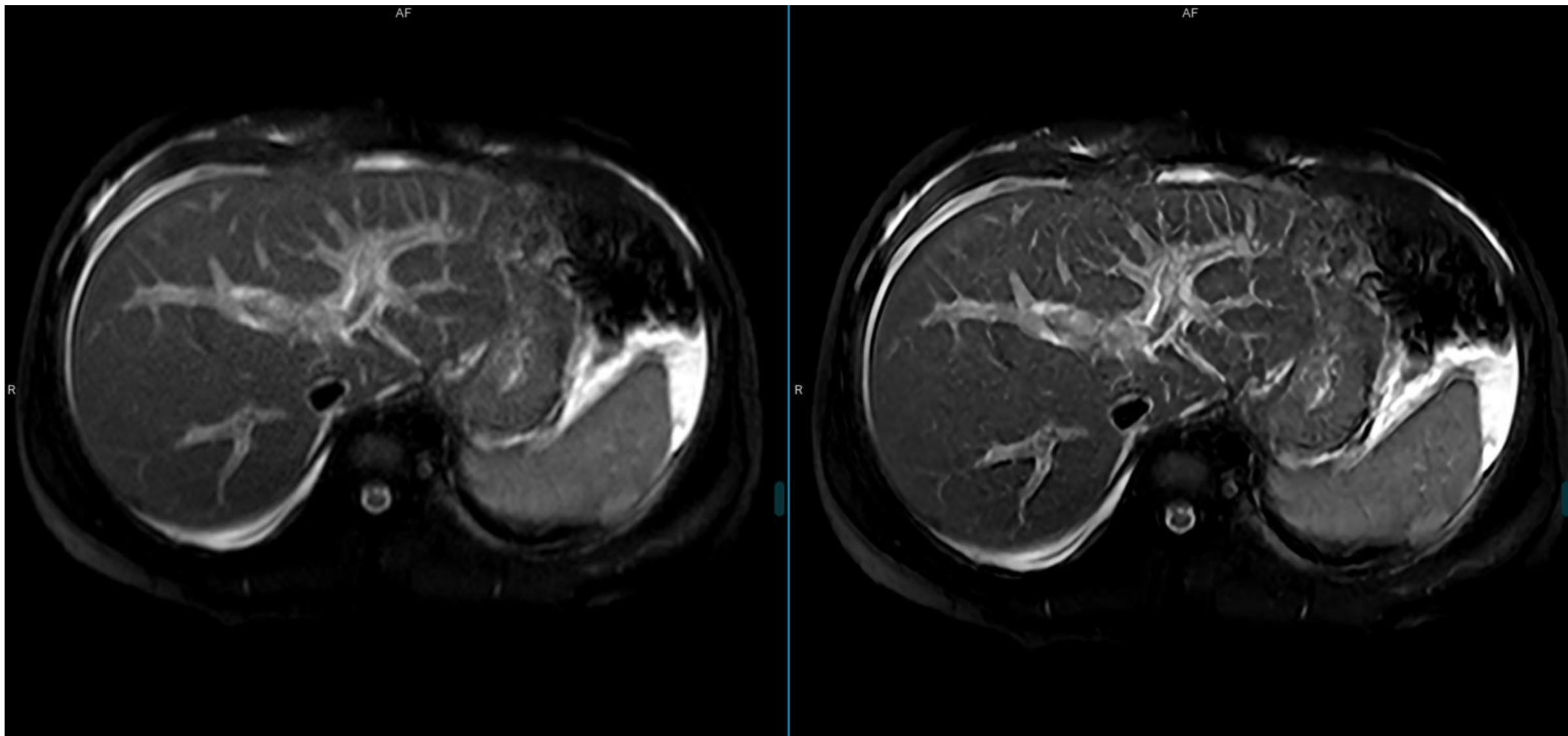
T2 Sagiital with better bone marrow signals and muscle plains



Degenerated T2 lumbar spine showing better disk protrusions, foramina and bone marrow signals



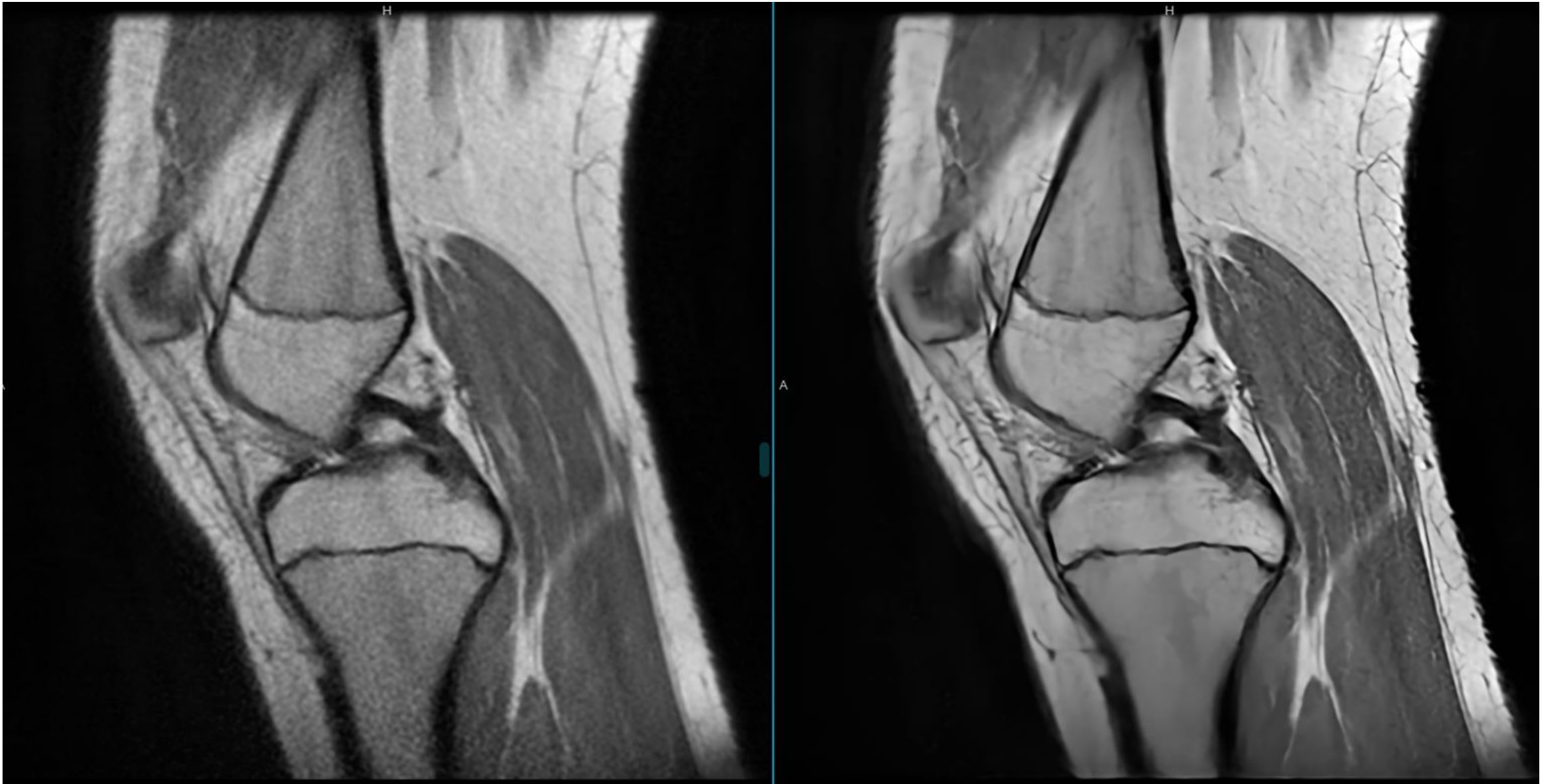
Coronal T2 FS image showing better tissue contrast with detailed margins of the collection in the right iliopsoas muscle



Axial T2 abdomen showing sharp vascular detailing, Better hepatic signals



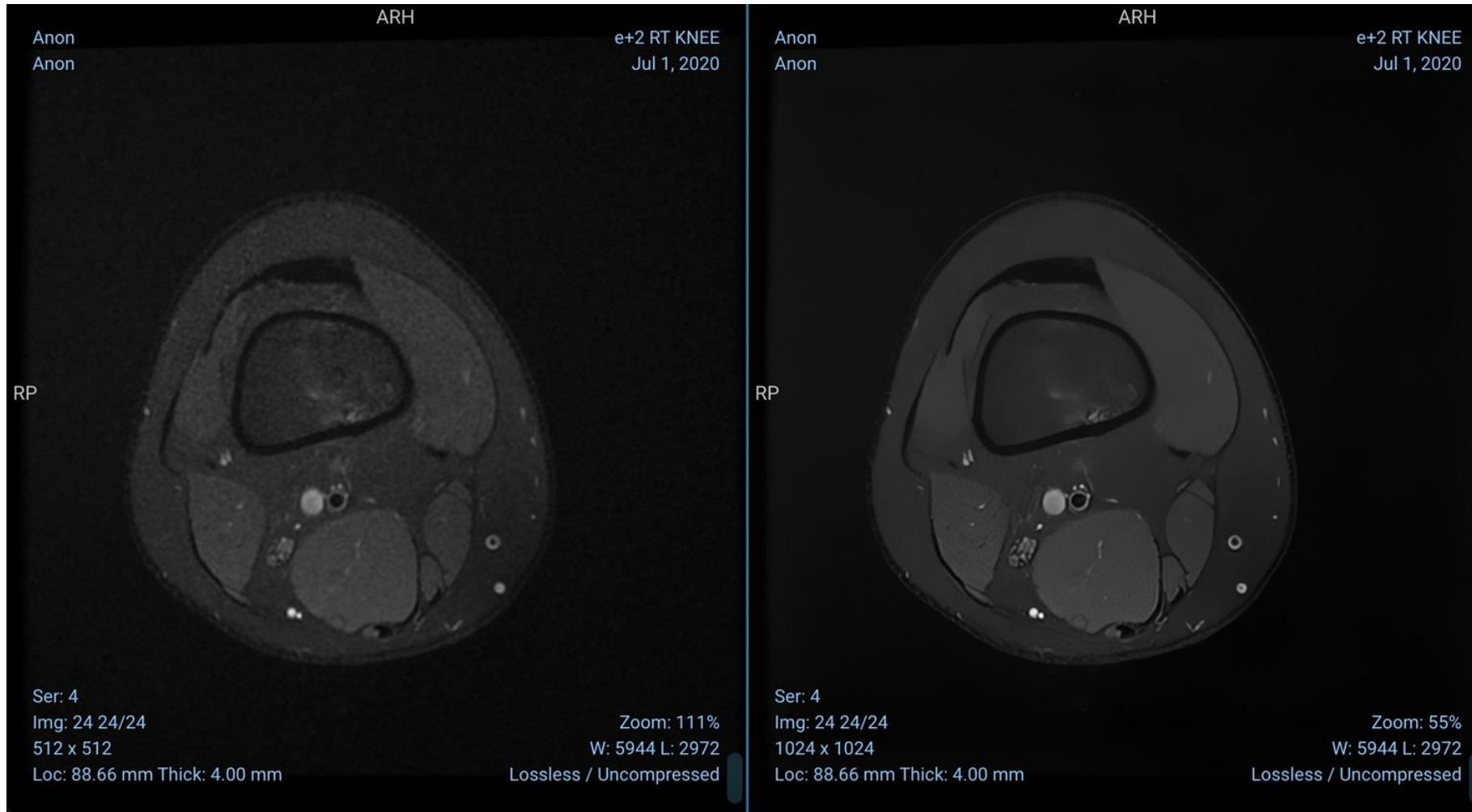
T2 Sagittal shoulder with better tissue contrast and muscle and fat planes



T1 Sagittal knee joint showing denoising of the bone signals with better muscle anatomy

Quickscan examples

Aiken QuickScan



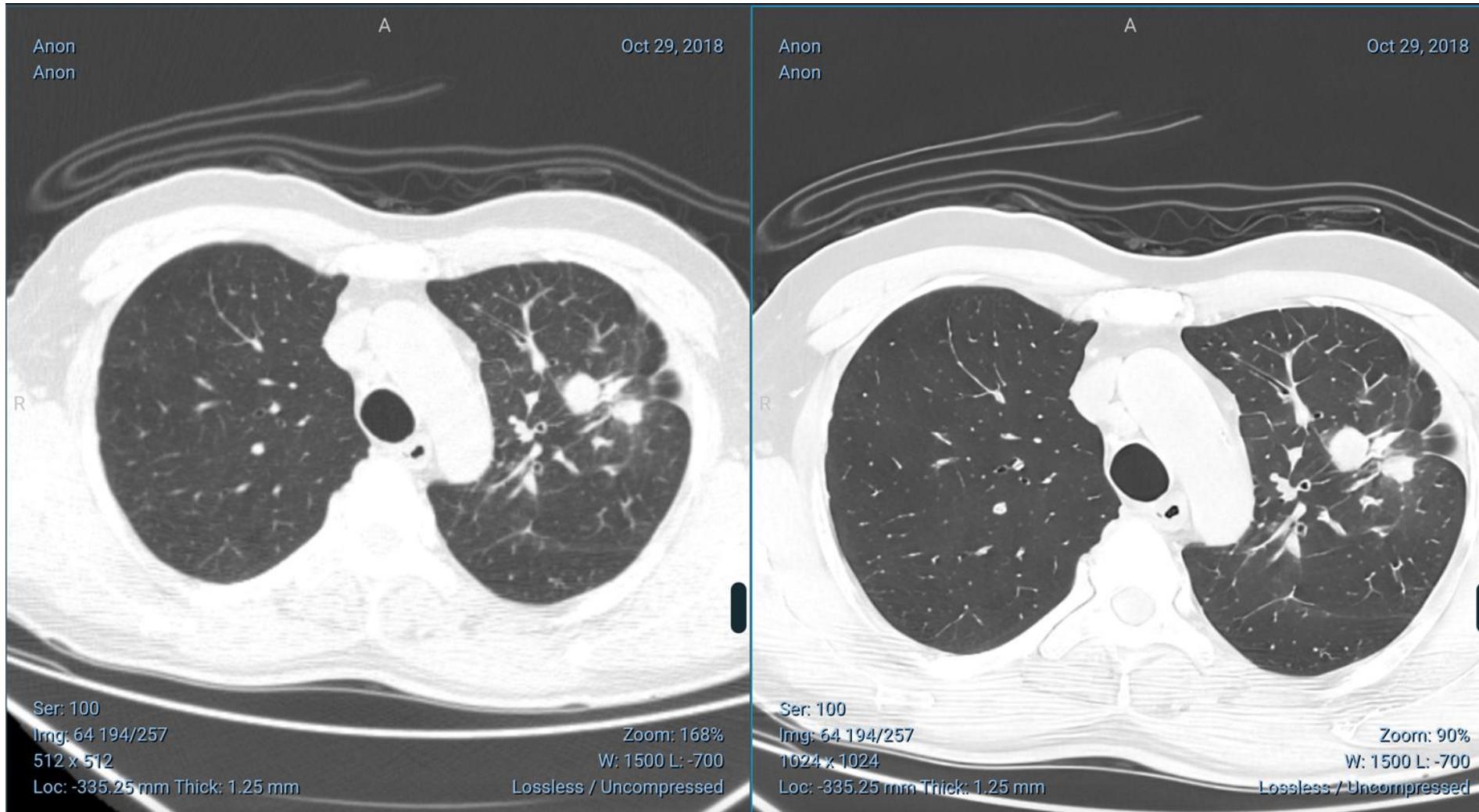
Knee Axial scan noise reduction, Bone edema is better seen



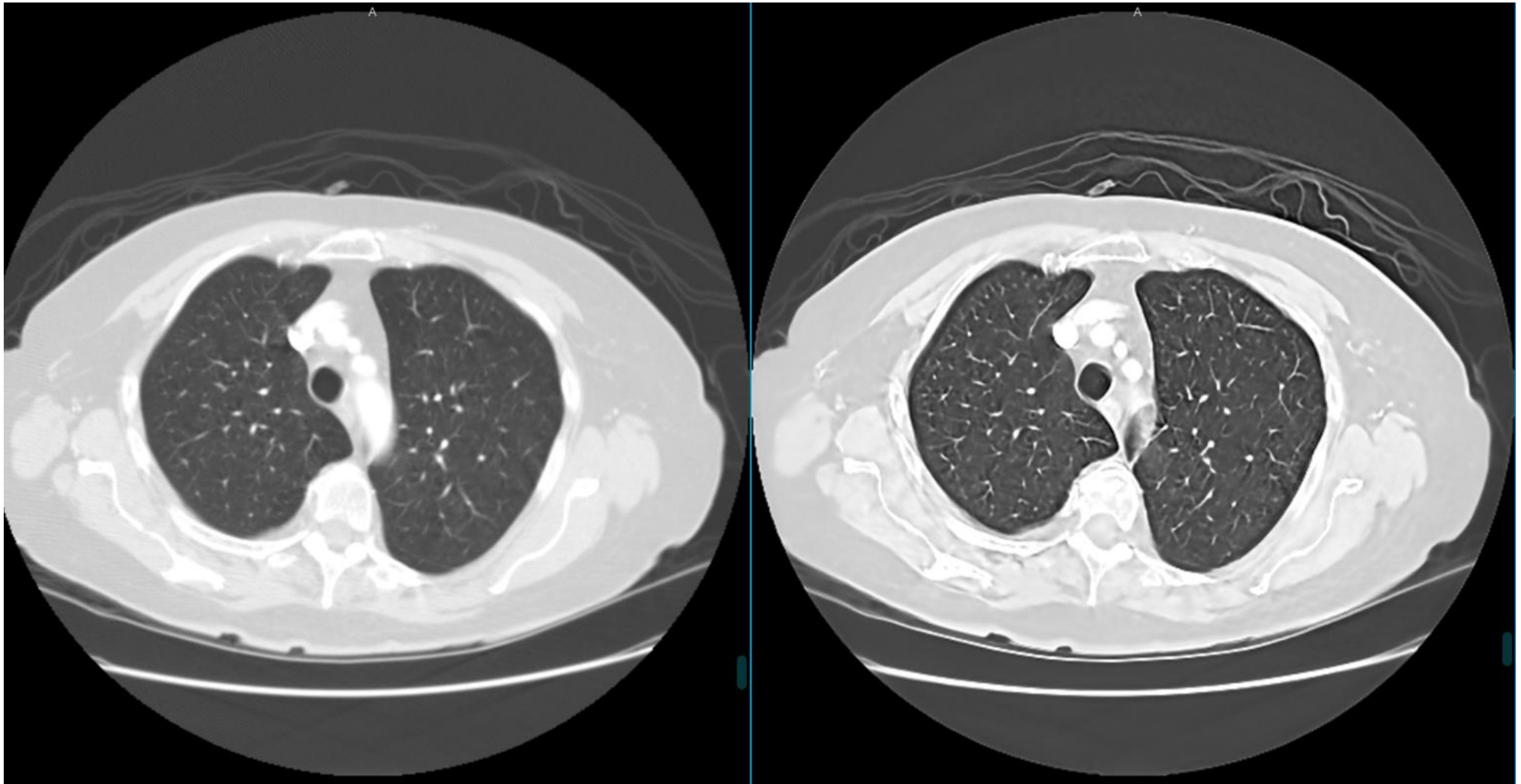
T1 Coronal ankle with better muscle anatomy

Low Dose CT

Aiken QuickScan output



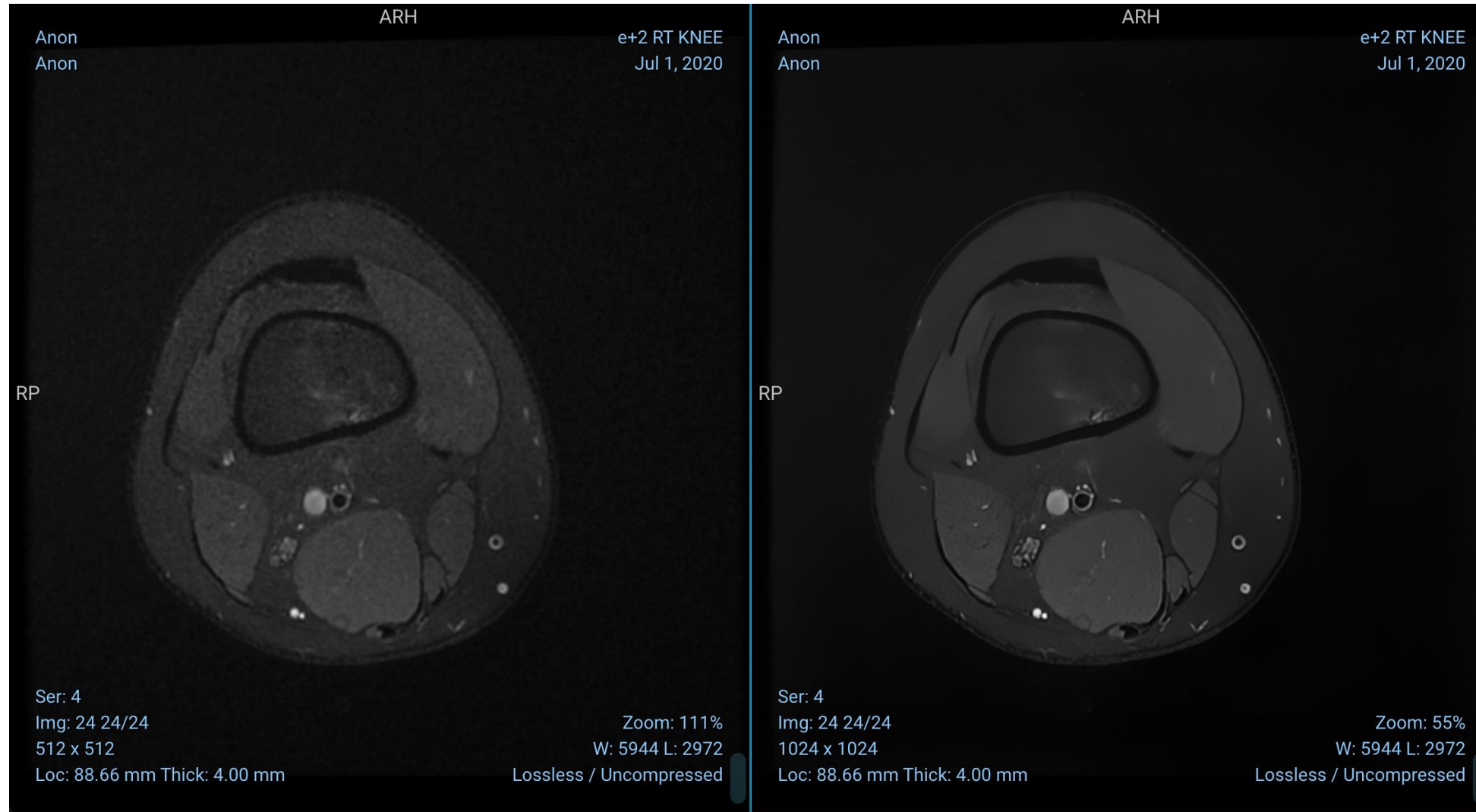
Sharpened Image quality and Denoising. Clear lung parenchyma and better visualization of the pulmonary nodules and fibrosis in the left lung



Contrast enhanced CT Axial lung study with better lung parenchyma and peripheral pulmonary vessels

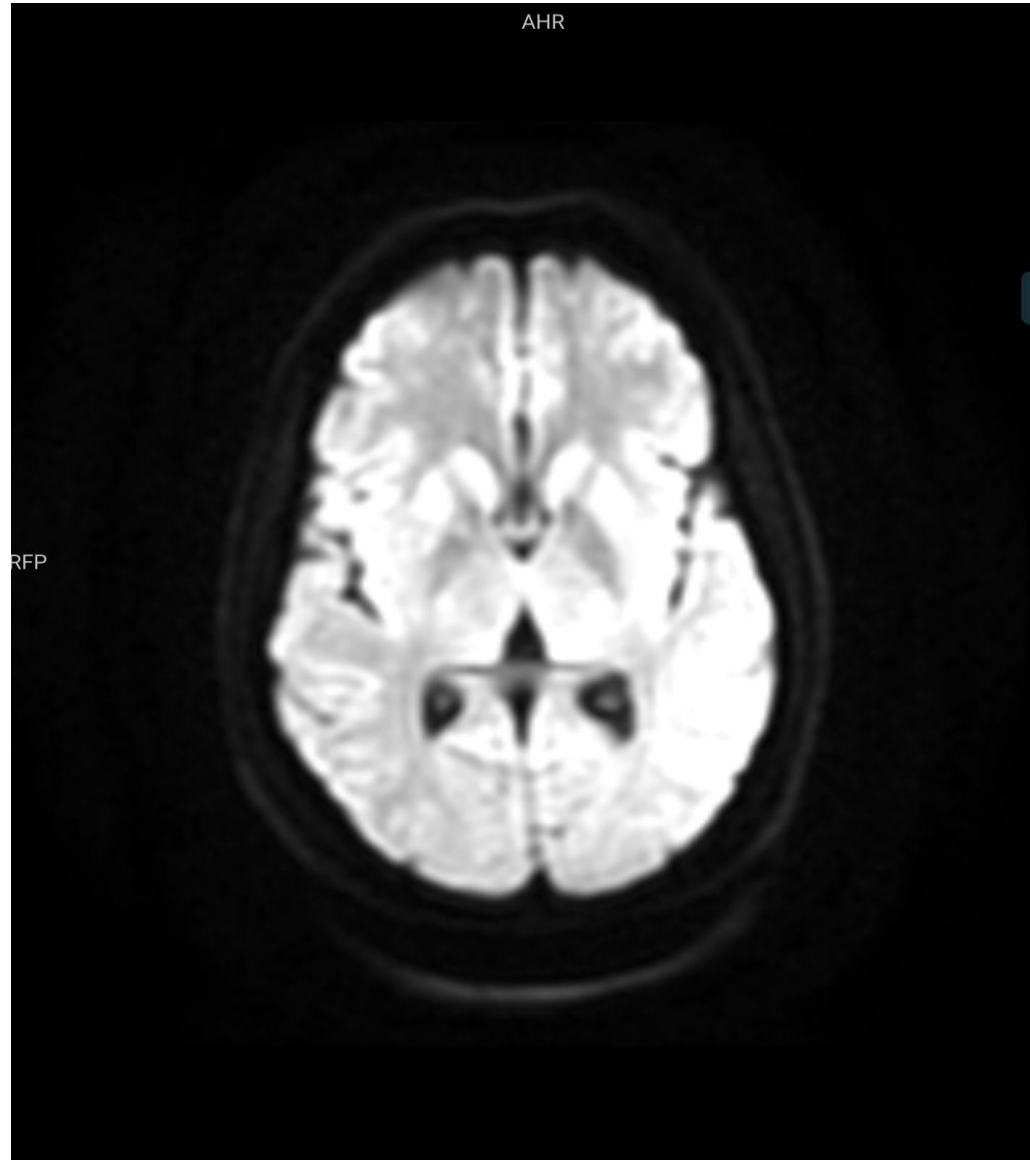
Quickscan examples

Aiken QuickScan

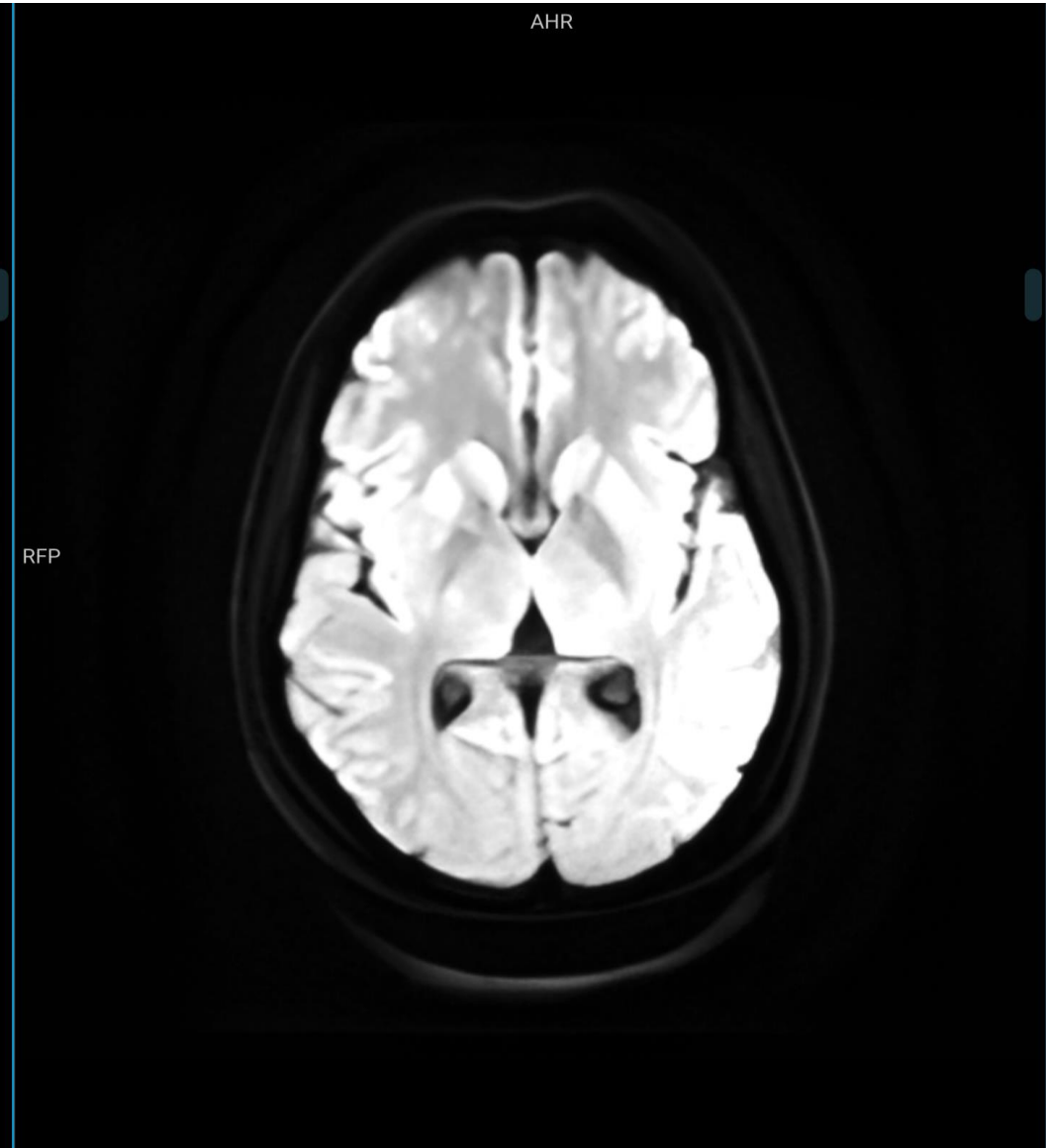


Knee Axial scan noise reduction

Scans from MRI/CT



Aiken QuickScan



Sharpened Image quality

ip_2354481d48bd43cca097ffbcd777dbe1
ip_4

MRI BRAIN
Dec 1, 2021 12:03:24

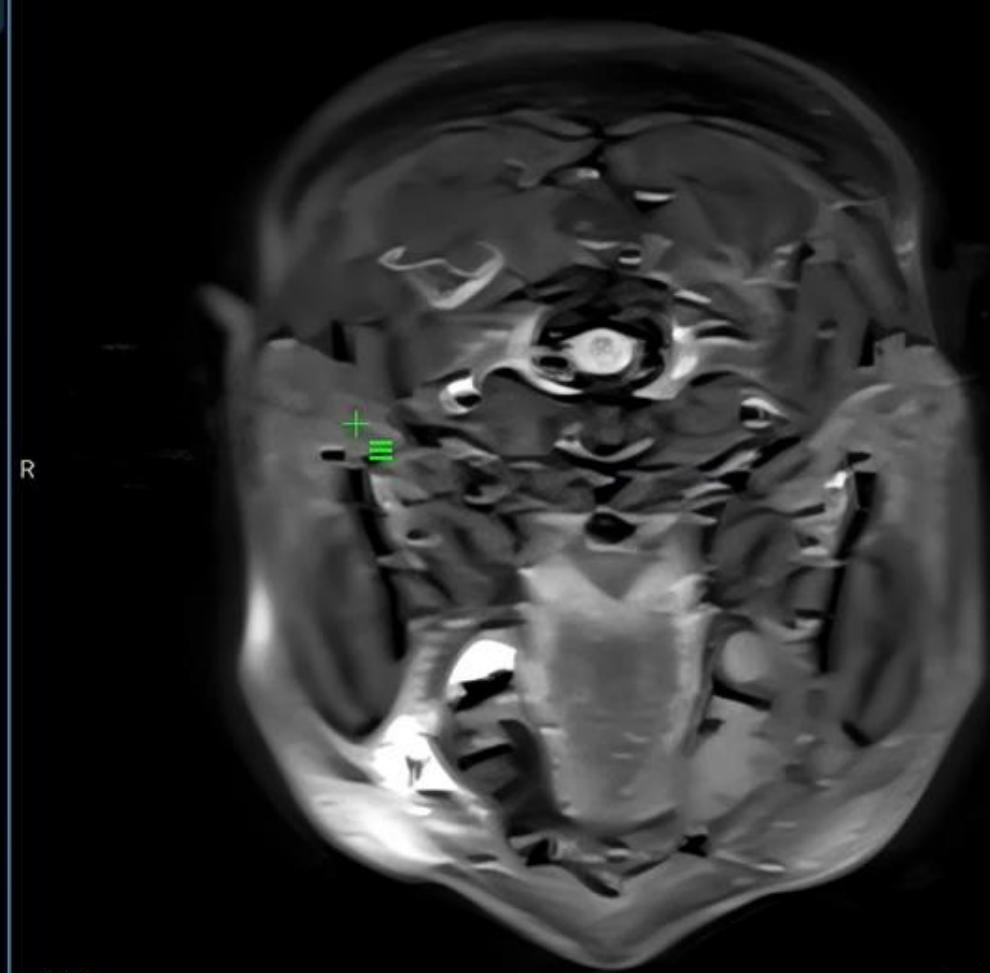


Ser: 1
Img: 3 3/25
512 x 512
Loc: 20.00 mm Thick: 5.00 mm

Zoom: 140%
W: 255 L: 128
Lossless / Uncompressed

ip_2354481d48bd43cca097ffbcd777dbe1
ip_4

MRI BRAIN
Dec 1, 2021 12:03:24

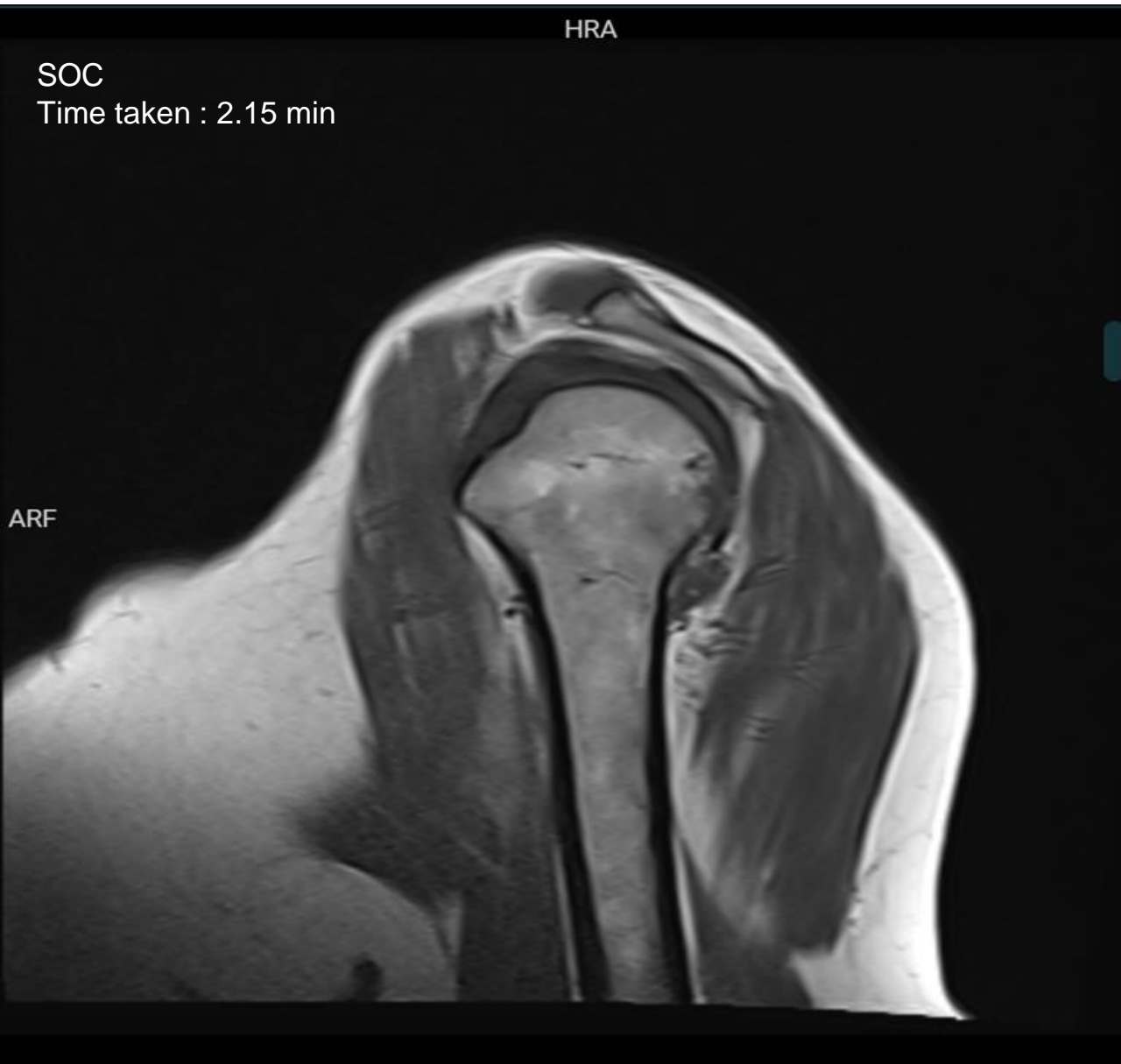


Ser: 1
Img: 1 1/25
1024 x 1024
Loc: 0.00 mm Thick: 5.00 mm

Zoom: 70%
W: 255 L: 128
Lossless / Uncompressed

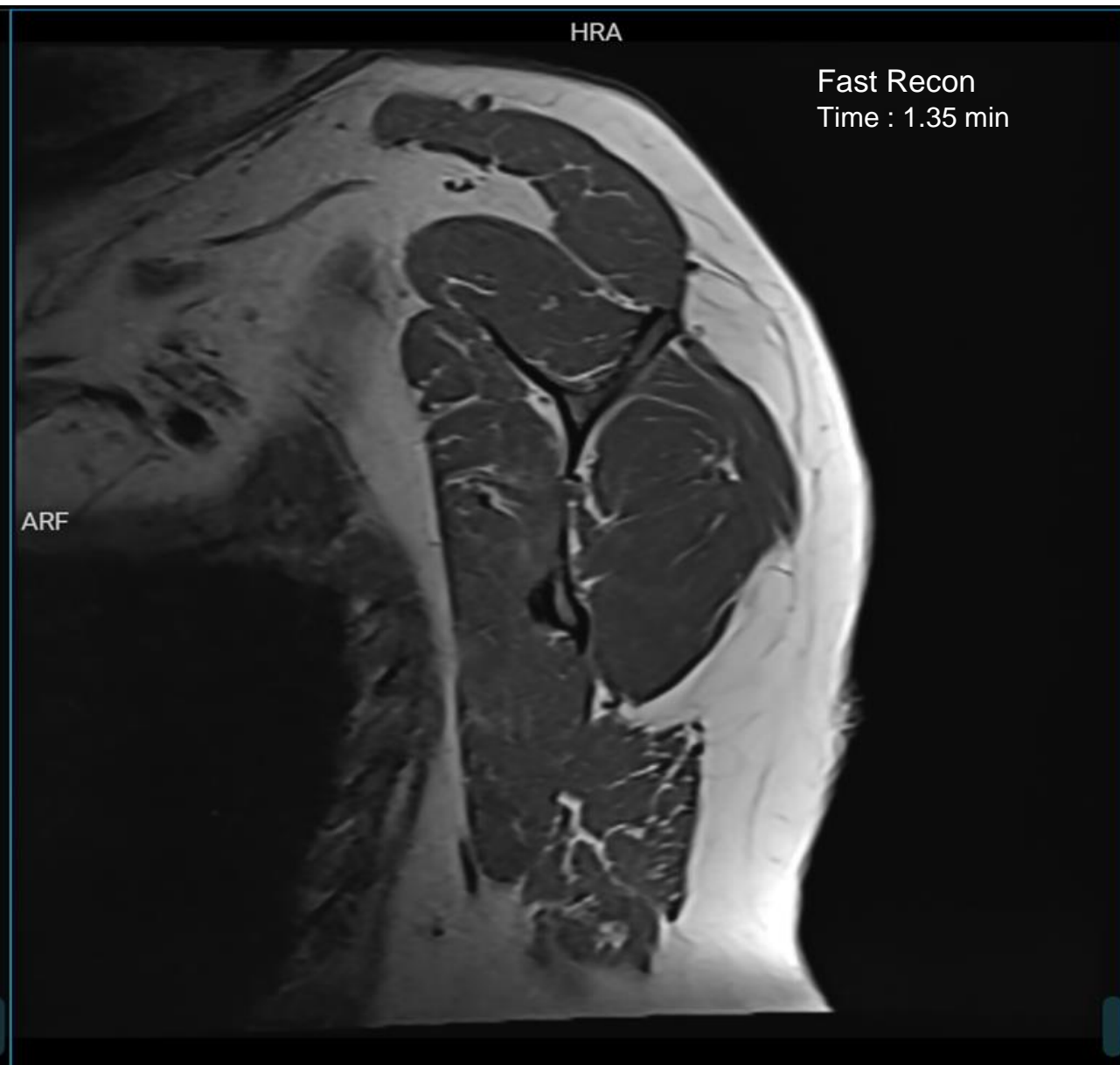
(30% time reduction)

Scans (SOC & fast) are taken at different time



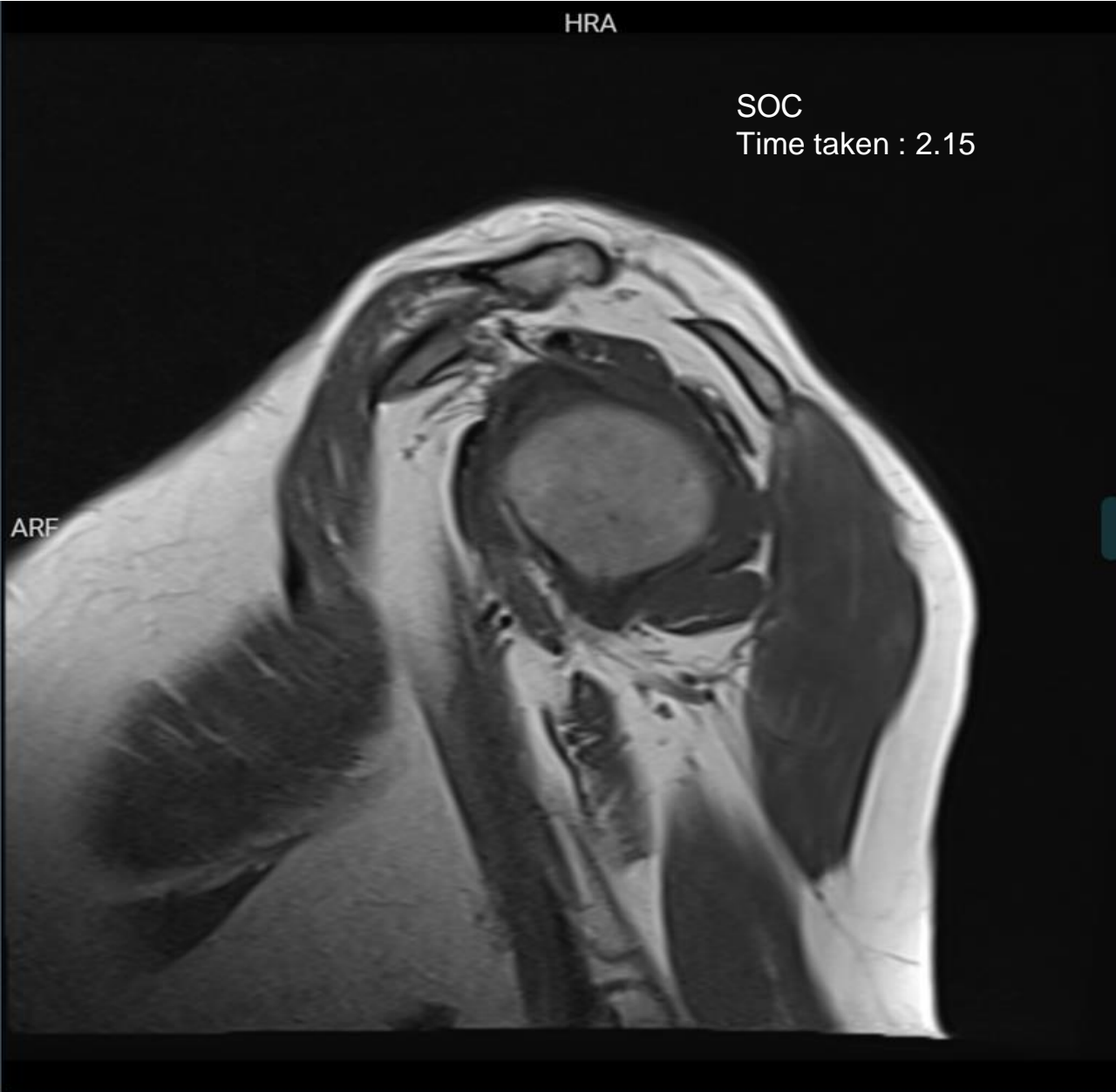
(30% time reduction)

Scans (SOC & fast) are taken at different time



(30% time reduction)

Scans (SOC & fast) are taken at different time



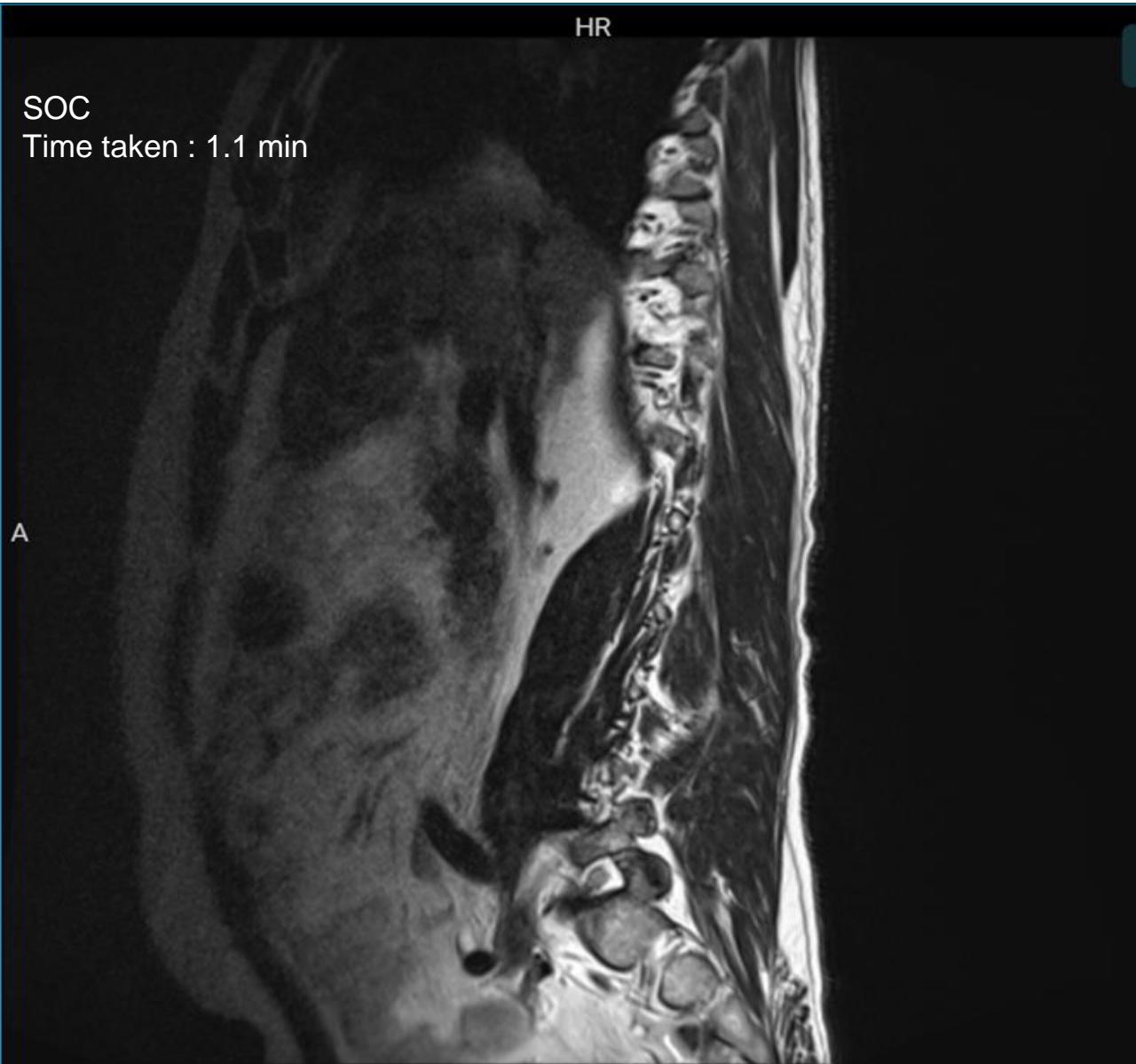
(30% time reduction)

Scans (SOC & fast) are taken at different time



(50% time reduction)

Scans (SOC & fast) are taken at different time



(50% time reduction)

Scans (SOC & fast) are taken at different time



QuickDiag – CT Chest

CT Covid detection with auto severity scoring on 1-25. Accurate within 10% of Radiology reporting. Better Objective scoring

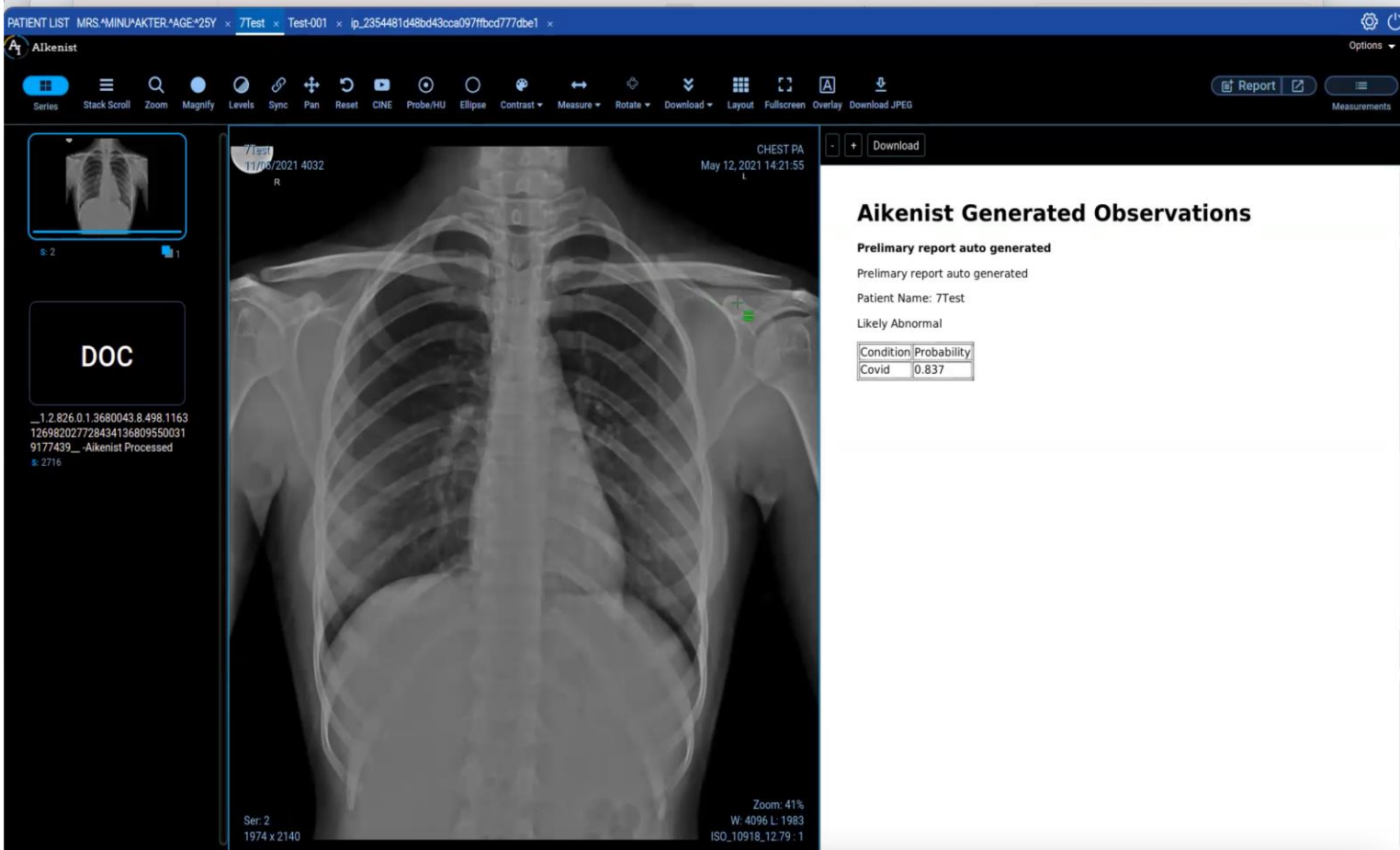


The screenshot displays the AIkenist QuickDiag interface for a CT Chest scan. The main window shows an axial CT slice of the chest with a 'lung' label and a 'Download' button. The top navigation bar includes patient information: 'PATIENT LIST MRS.*MINU*AKTER.*AGE.*25Y x 7Test x Test-001 x ip_2354481d48bd43cca097fbc777dbe1 x'. The left sidebar contains a thumbnail of the scan, the text 'No series description_3 s: 1', and a large 'DOC' button. Below the 'DOC' button is a long alphanumeric string: '_1.2.826.0.1.3680043.8.498.1882 190194938078672138530279879 2407541_-Aikenist Processed s: 7294'. The right panel, titled 'Aikenist Generated Observations', contains the text 'Preliminary report auto generated', 'Preliminary report auto generated', 'Patient Name: Test-001', and 'CT Score: 6 / 25'. Below this is a table with the following data:

Lobe	Lobar Involvement	CT severity score
Right Upper	28.42 %	3
Right Middle	14.14 %	2
Right Lower	1.539 %	1
Left Upper	0.0 %	0
Left Lower	0.0 %	0

At the bottom of the main window, technical details are shown: 'Ser: 1', 'Img: 0 1/42', '512 x 512', 'Thick: 1.00 mm', 'Zoom: 157%', 'W: 2469 L: 210', and 'Lossless / Uncompressed'.

QuickDiag- Xray Chest



Aikenist Generated Observations

Preliminary report auto generated

Preliminary report auto generated

Patient Name: 7Test

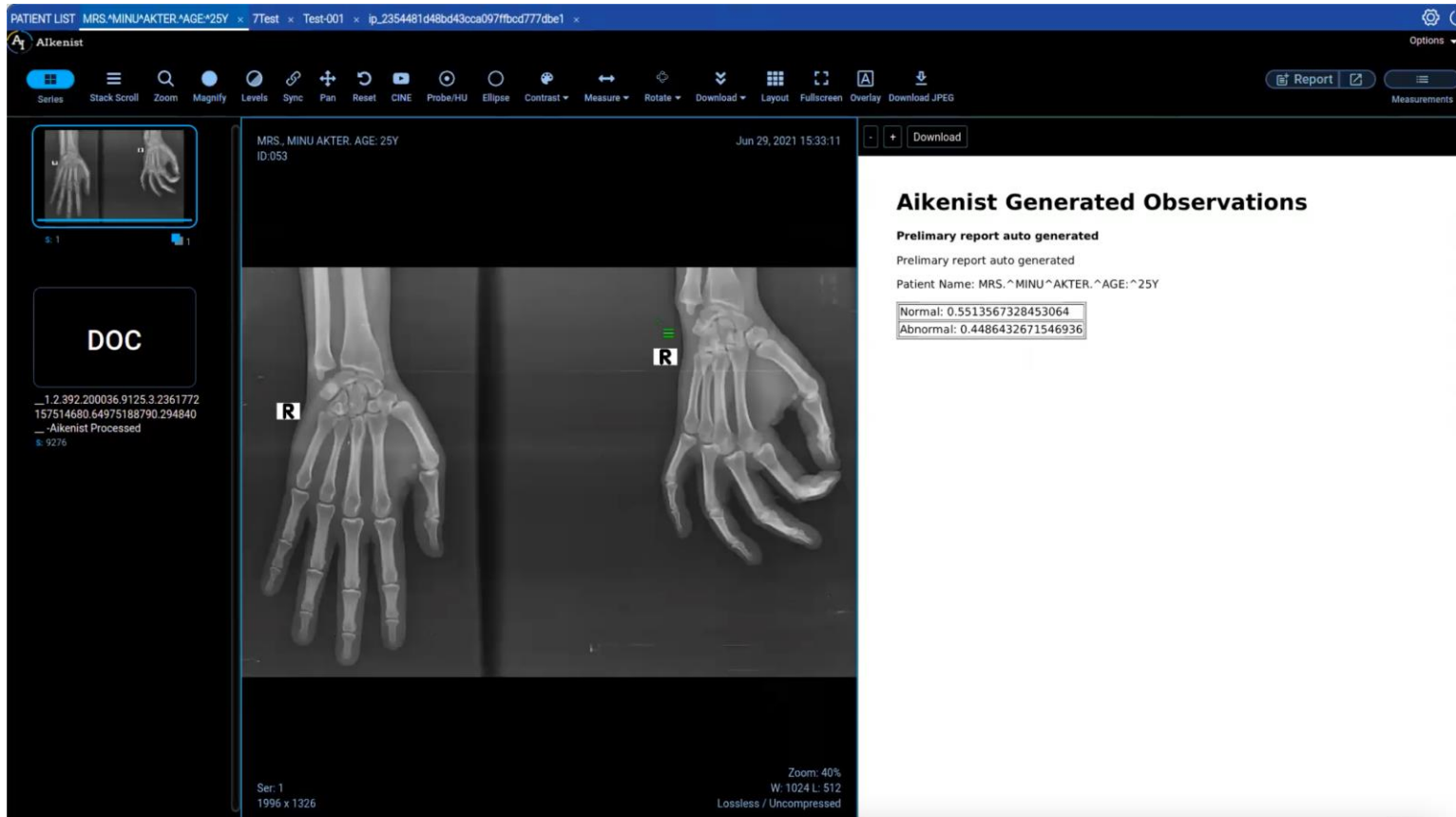
Likely Abnormal

Condition	Probability
Covid	0.837

Features

- Normal vs Abnormal
- Abnormal cases: 3 Class, 5 Class and 10 Class Classification
- Classes Included: Covid, Consolidation, Emphysema, Pleural Effusion, Cardiomegaly, Pneumonia
- Trained on poor quality scans for better performance

QuickDiag- Xray Bone



Features

- Normal vs Abnormal
- Wrist, Shoulders, Ankle, Elbow, Forearm, Hand, Humerus
- Trained on poor quality scans for better performance
- Developed NLP for reading reports
- Developed bot to download data automatically after anonymization



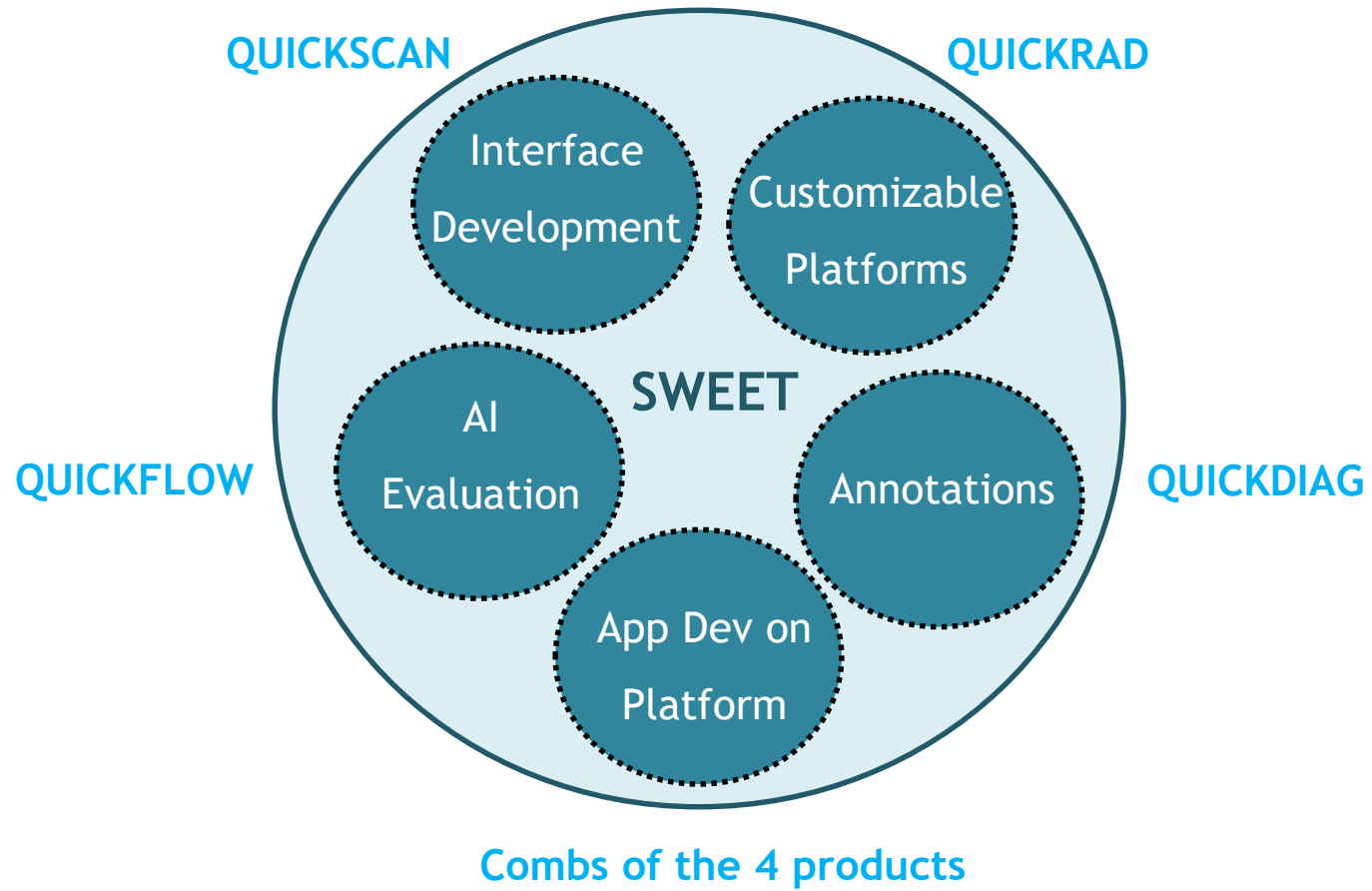
3D MR Angio with better visibility of vessels, vessel margins and signals

Security and Privacy

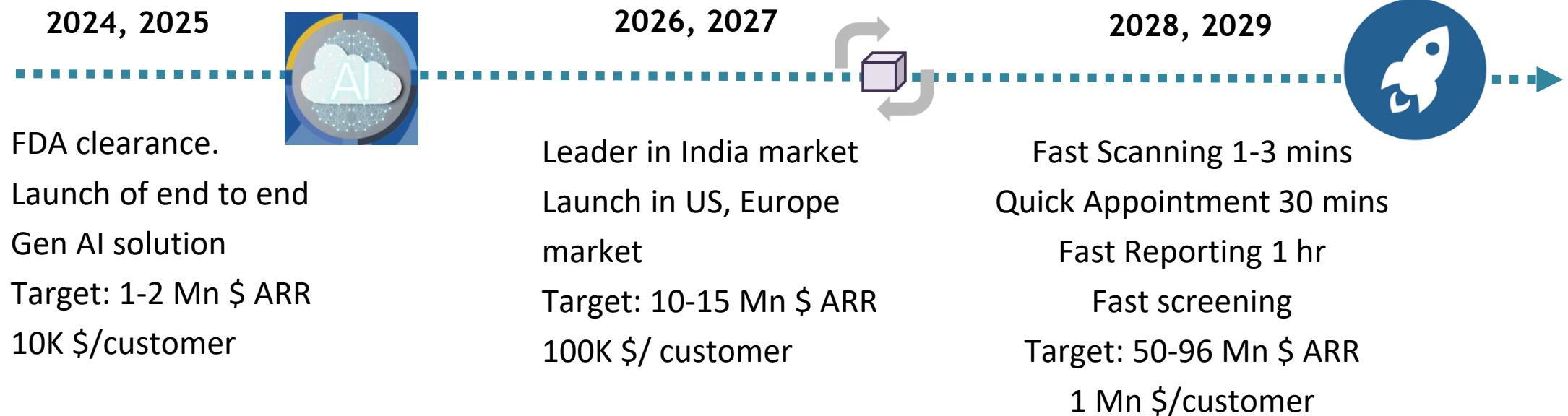
- **At rest encryption on cloud (256 Bit AES)**
 - **Secured connection**
 - **HTTPS transmission**
 - **Inbound and Outbound rules**
-
- **Anonymized Patient Name, Age, Gender and other details**
 - **Deanonimization happens on premise**



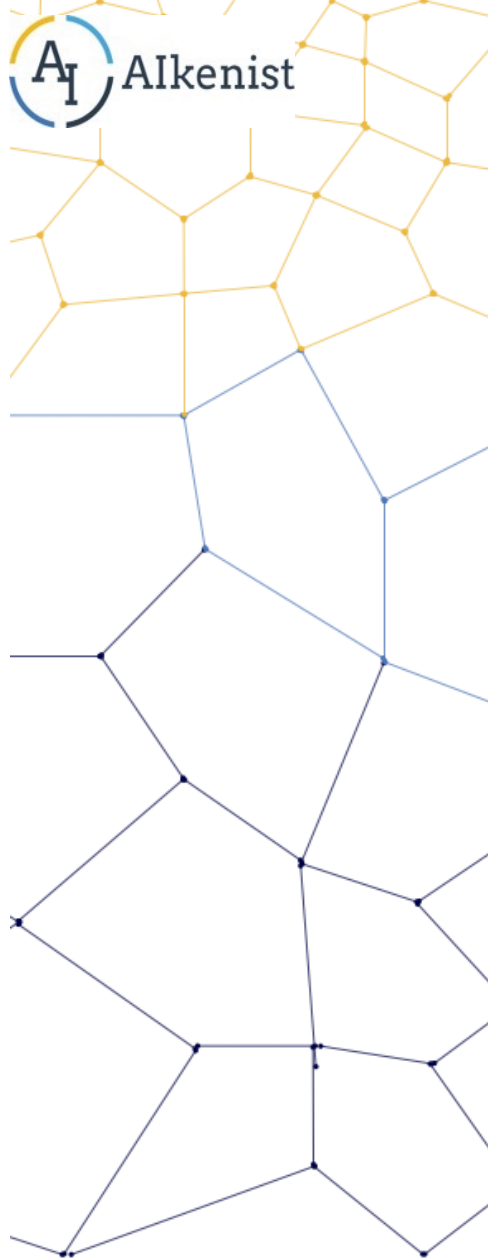
Summary of Offerings



Roadmap...



Aikenist increases Radiology adoption by 5x



Future Roadmap

Imagine access to underserved population for best quality diagnosis



Affordable MRI

2x more scans,
70% better quality
70% reduction in cost
[2000/scan from 7000/scan]

Stroke Scan

<1 min for scan

Patient walks in and out for scan in 5 mins



Summary of Offerings

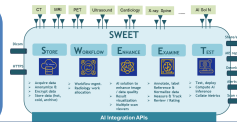
Introduction

Platform

Product

What Next

PLATFORM



Interface
Development

AI
Evaluation

Customizable
platforms

Annotations

Application Development
on Platform

PRODUCTS

QUICKFLOW

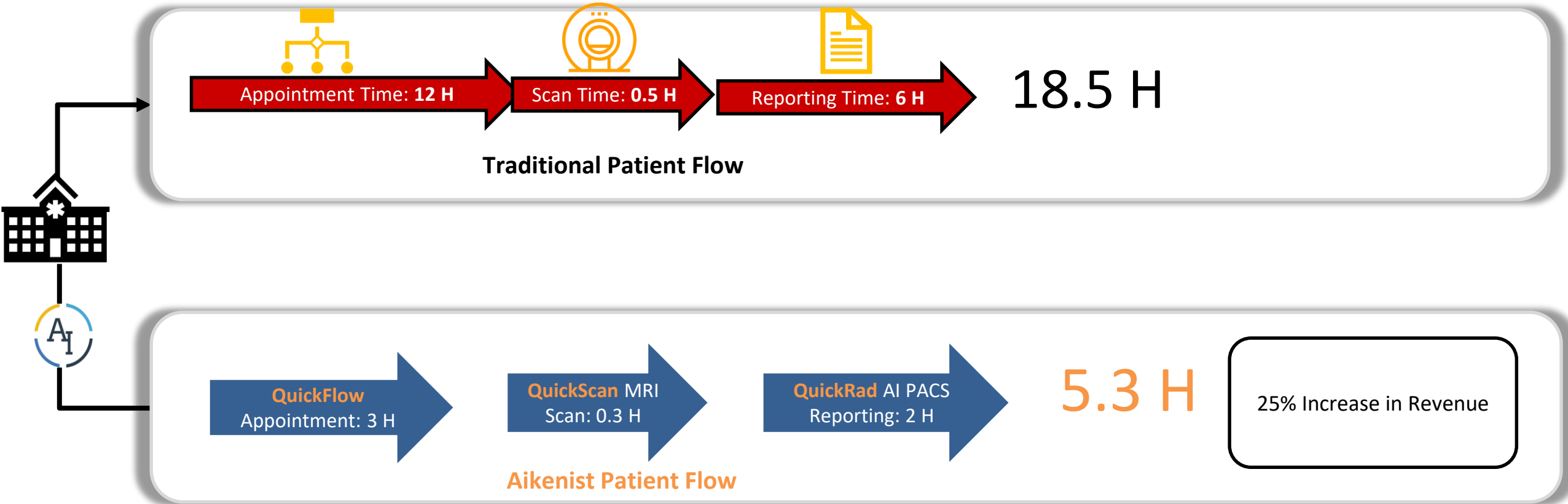
QUICKSCAN

QUICKDIAG

QUICKRAD

Combinations of the 4

Innovative AI Solution



Innovative AI Quick suite software solution to reduce end to end workflow time, improve quality of scans & to improve machine utilization

Net Gain : Improving Affordability, Accessibility and Convenience for Patients for communicable, critical and chronic care

Today's Problem ,



Patients



Long **MRI scanning process** takes 45 mins – 1hr

Cumbersome post scanning follow up **with Physicians and Hospitals**



Radiology Centers



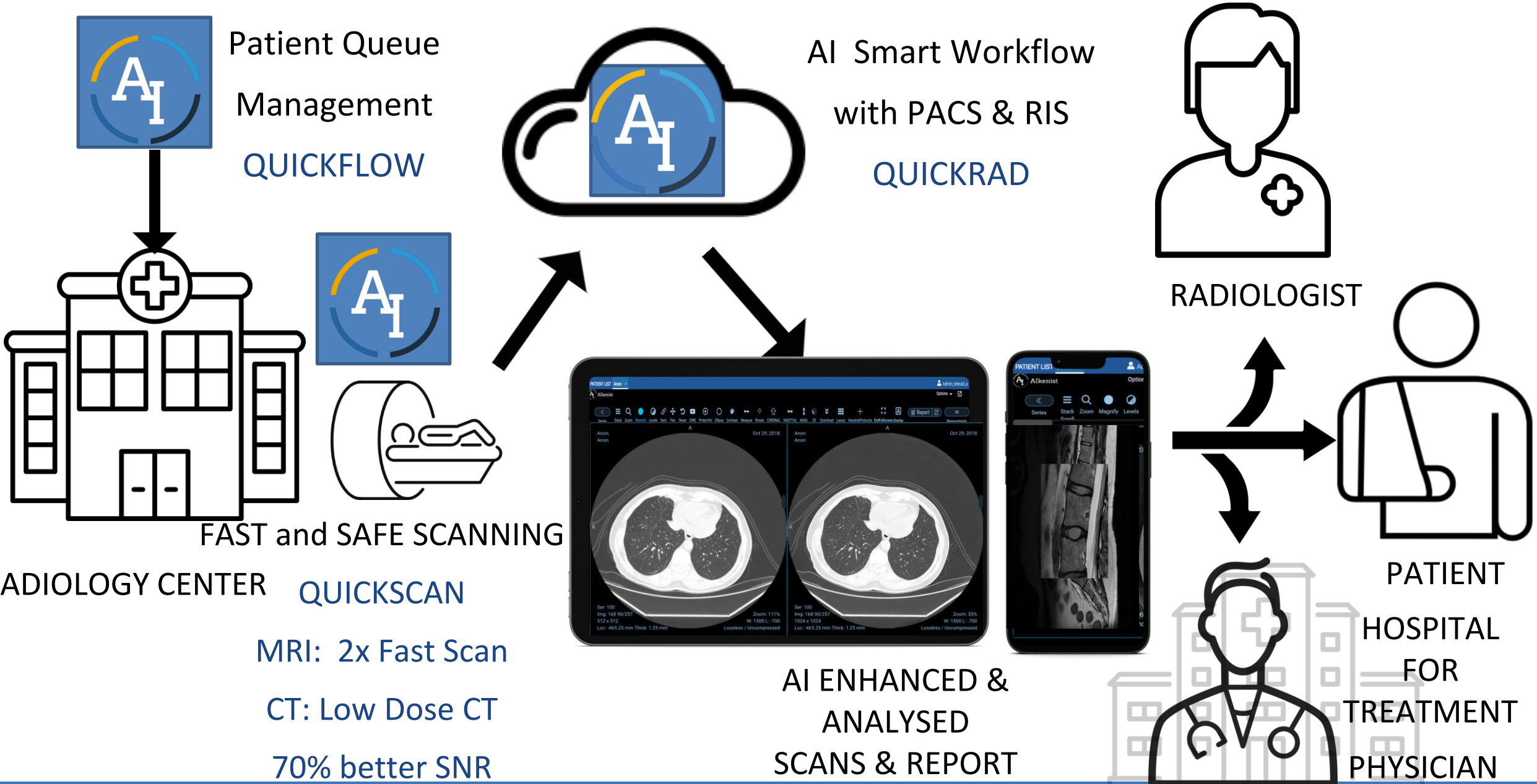
Need smooth process during peak load time

Need time saving process for Radiologists and Patients

Patient Process time =
 Appointment time (1+ D) +
 Scanning time (30+ min)+
 Reporting time (1+ D)+
 Physician response time (1+D)

Appointment to Treatment takes Days

Intelligent & Quick Diagnostic flow using Generative AI



Impact

Affordable MRI

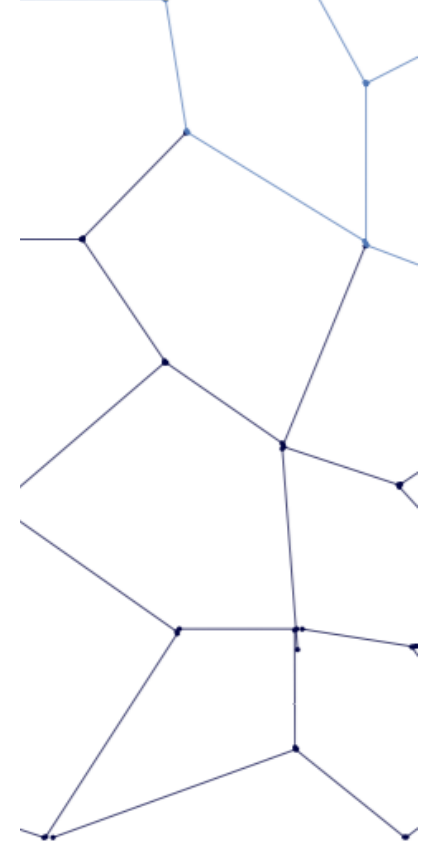
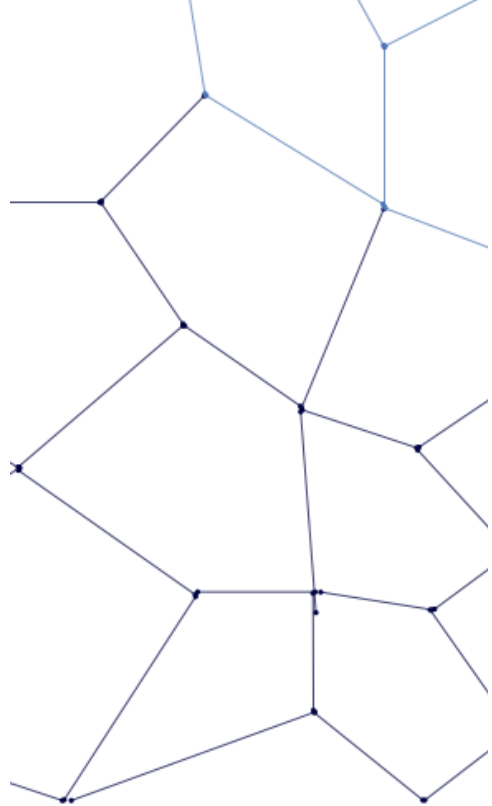
Uses existing infrastructure and provide affordable MRI for regular checkup of critical & chronic illness

2x more scans, 70% better quality
Target price: Reduce 2000 INR/scan from 7000 INR/scan

Care Coordination

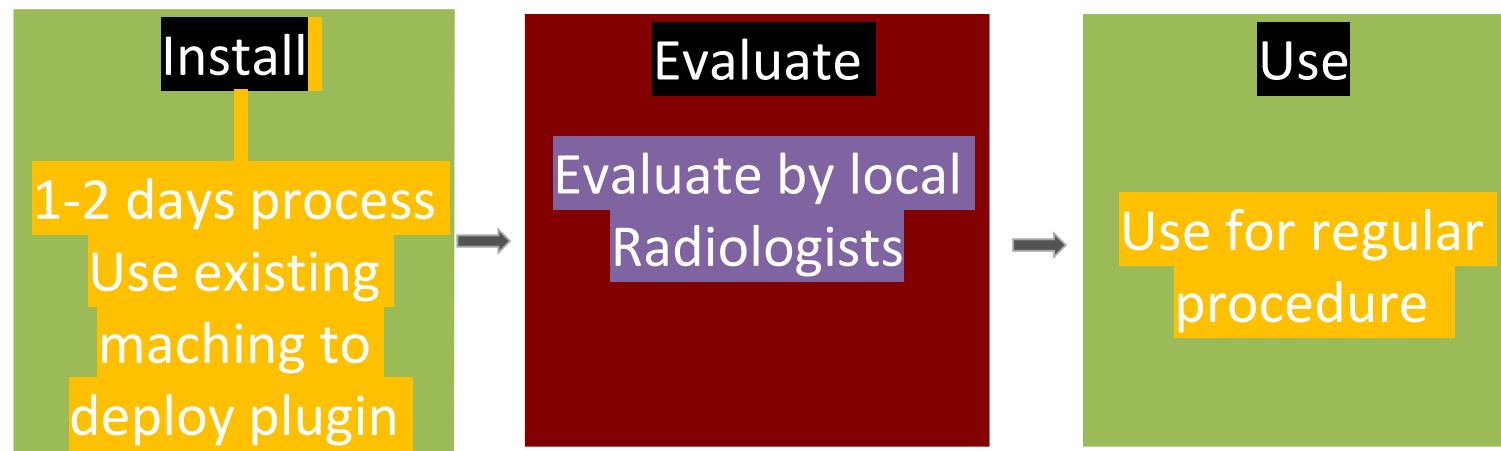
Provides faster and accurate care coordination for Communicable, Critical and Chronic Care

Imagine access to underserved population for best quality diagnosis



Availability and Installation

- **Remote installation. No upfront Hardware cost**
- **Applicable to 99% procedures**
- **Trial version available. Can push data to evaluate results**
- **Commercialization post evaluation**
- **Would require plugin to be deployed in Imaging center**
- **Anonymized data is pushed**
- **Is compatible with existing machines and PACS**



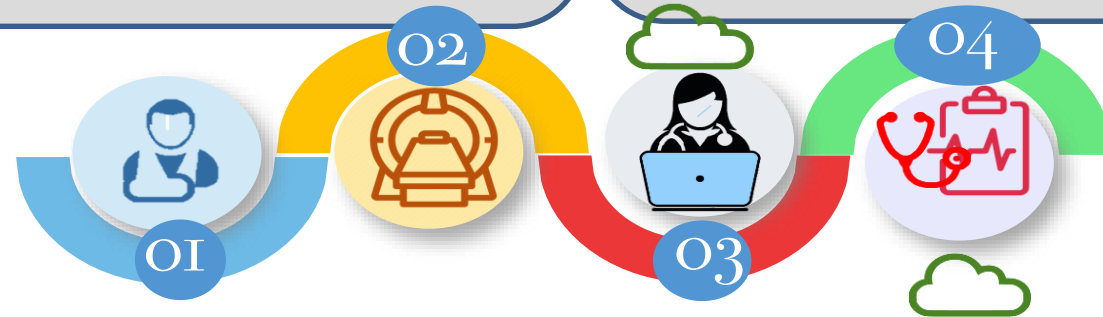
End to End Radiology Platform

Patient/Clinician engagement platform
Quickflow/Ezheal

Patient books, schedules & pays at Ezheal
Sharing of reports & scans

Accelerated image acquisition - **QuickScan**

Faster scan up to 2X speed (AI engine in cloud)
Optimizes machine usage
Increases patient convenience



QuickFlow

QuickDiag

QuickScan

QuickRad

AI based diagnosis assistance
QuickDiag

Assistance of QuickDiag
Smart and evolved reporting

All in one PACS (on the cloud)
QuickRad

Teleradiology platform
Rich feature set of conventional PACS

Team



ASHWIN AMARAPUR

Founder, CEO
IISc, Ex- Motorola, NXP .
Exit with AllGo Embed, Ex CEO
AllGovision
Serial Entrepreneur



RAVINDRA G H

System Architect
Ex- CGI 25+ yrs
experience



DR. MUTHU MAGESH

Advisor - Lead
Radiologist



SANJEEV S

Advisor
Business Leader



SACHIN SHEKHAR

Director - Partnership & Growth
Ex- Subex, Angel Investor,
Serial Entrepreneur



CORE TEAM

AI-Engineers, Research
Scholars



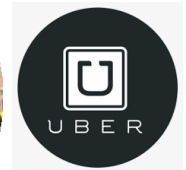
DR. RUCHI DANA

Medical Advisor
MBBS, MD, MBA, VC



VENKATESH SHARMA

Director
Ex Uber, NetApp



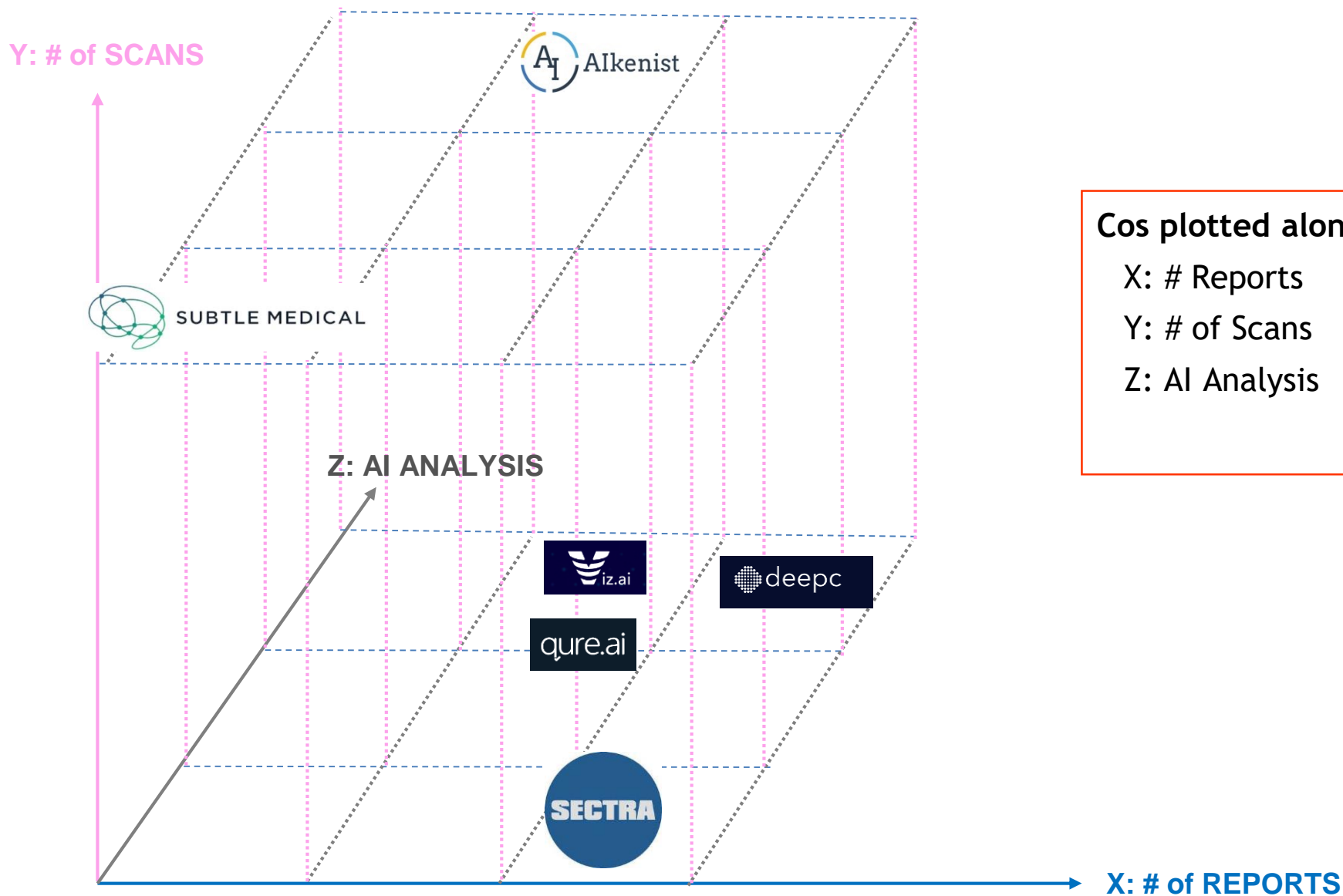
Aikenist : Differentiators

Introduction

Platform

Product

Summary



Cos plotted along 3 Axes

X: # Reports

Y: # of Scans

Z: AI Analysis