SEQUOIA HEALTHCARE

Crafting Tomorrow's Diagnostic Solutions

www.sqhpl.com

Diagnose with confidence and comfort

Clarity 1.5T
MRI scanner

MUSIC 66X16 with
all applications

Sequoia Healthcare advanced 16 channel 1.5T MRI scanner

" Clarity 1.5T meets all your diagnostic needs with new generation quantitative tools and applications. Our advanced MUSIC technology allows for faster image acquisition and multiple exams without frequent user intervention."

MUSIC (Multi-Segment Imaging Combination) improves MR imaging with flexibility, precision, and speed. It utilizes an array of 66x16 RF channels that run simultaneously in one scan and FOV, hence enabling faster scans. You are required to choose the examination you want, without the need for coil replacement, which improves workflow and increases productivity. With MUSIC, repositioning patients for multiple exams is no longer necessary. Leveraging MUSIC's heightened precision allows us to image small lesions in a whole-body scan.

Flexibility easy to use with more adaptability and versatility. You only need to choose the examination you want without the need for coils replacement, which improves workflow and increase productivity.

Precision With excellent and pinpointed precision, MUSIC provides excellent images quality from small lesions of the whole body.

Speed: With MUSIC, the examination set-up is faster and simpler, and acquisition time is shorter. Increasing your patient through put.

Clarity 1.5T Redefines diagnostic MRI with unparalleled performance and precision that meets diverse medical needs with exceptional clarity and accuracy. This advanced system incorporates new-generation quantitative tools and applications that elevate your diagnosis, thereby providing precise and reliable results for enhanced patient care.

RF System

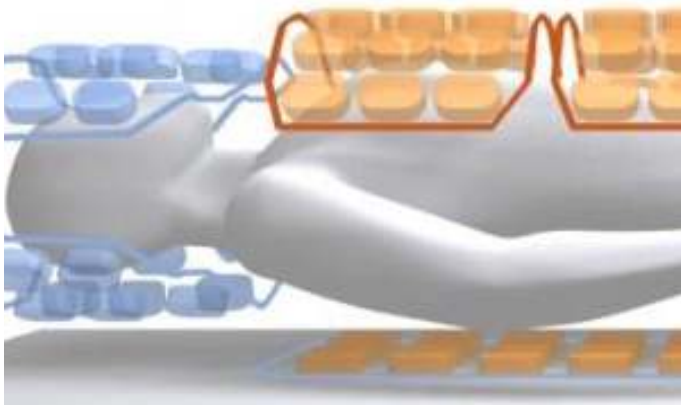
- 20KW RF Amplifier
- 66x16 receive channels
- Digital RF System

GRADIENT System

- Active shielding + Anti external electromagnetic Interference shielding
- Extremely low eddy currents (<1% of applied pulse)
- Water-cooled coil and amplifier

Gradient Strength: 35mT

Gradient Speed: 130mT/m/s



MUSIC (Multi-segment Imaging combination)

SMART WORKFLOW (Auto Pilot Mode)
MRI workflow solution helps remove the complexity of MRI scanning. Exam time is reduced by 30%, by allowing you to drag and drop sequences to protocol. Immediate processing instead of post-processing –Inline Technology.

Receive Coils Phased array coils with cable less design, easy to handle.

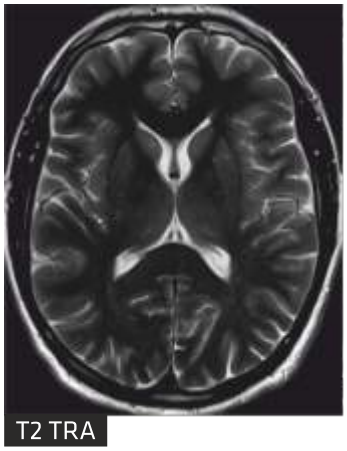
- CNV (Head and Neck) Coil 16 channel Technology
- Knee Coil 8 channel
- Spine Coil 18 channel
  Flex Coil 4 channel
- Body Coil (60cm) 8 channel
- Shoulder Coil 8 channel
- Body Coil 12 channel

Helium Free Design

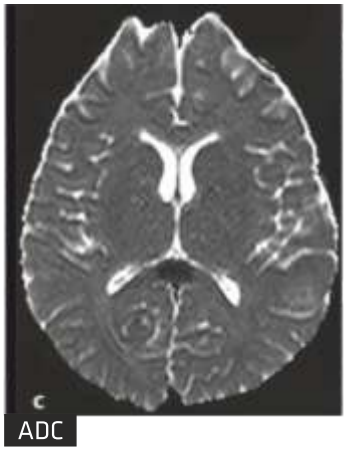
- Innovative Direct cooling technique
- No risk of gas expulsion due to quench
- Short Magnet 1.6M
- Best homogeneity - ≤2 ppm @45cm DSV VRMS Value
- Intelligent Auto ramping control One-Touch mode
- Automatic Ramp down if any electricity outage and ramp up automatically once the electricity recovers
- In case of accidental quench, Magnet can be recovered automatically within 3 days after quench, no engineer required for on-site visit

NEURO Imaging

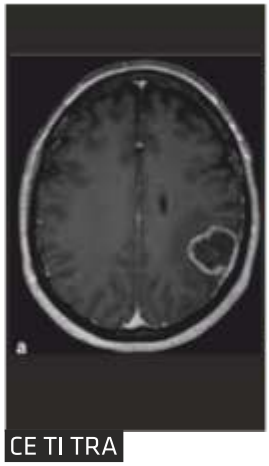
Clarity's high-quality imaging can be applied to a range of clinical neuro imaging.

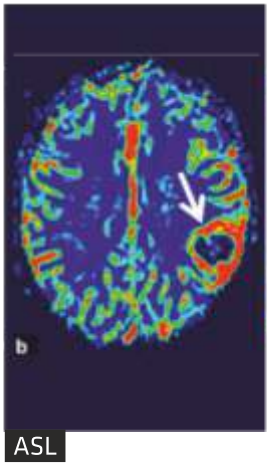

T2 TRA

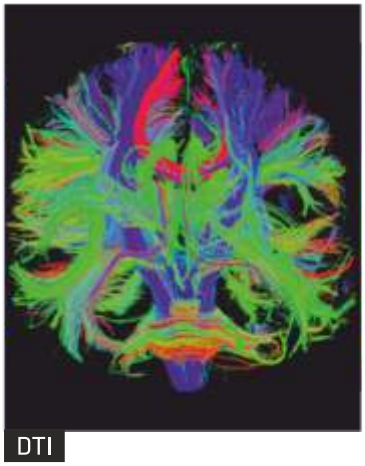

SWAPP

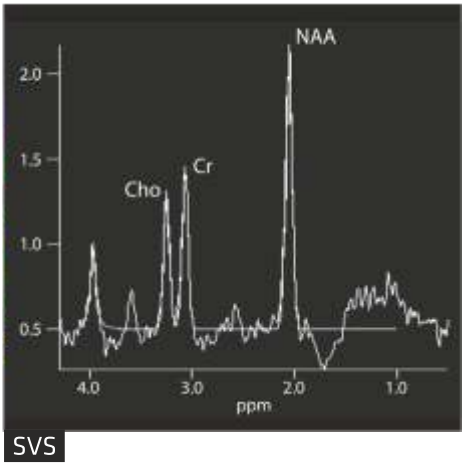

ADC


MRA


CE TI TRA


ASL


DTI



SVS

MRA/MRV, DWI with multiple b-value, ADC and eADC, SWAPP (SWI), Tornado (motion correction), ASL, DTI, Single Voxel Spectroscopy, DCE – MRI


WS 2 STEP


TISE SAG


T2 TSE SAG


HR TRA

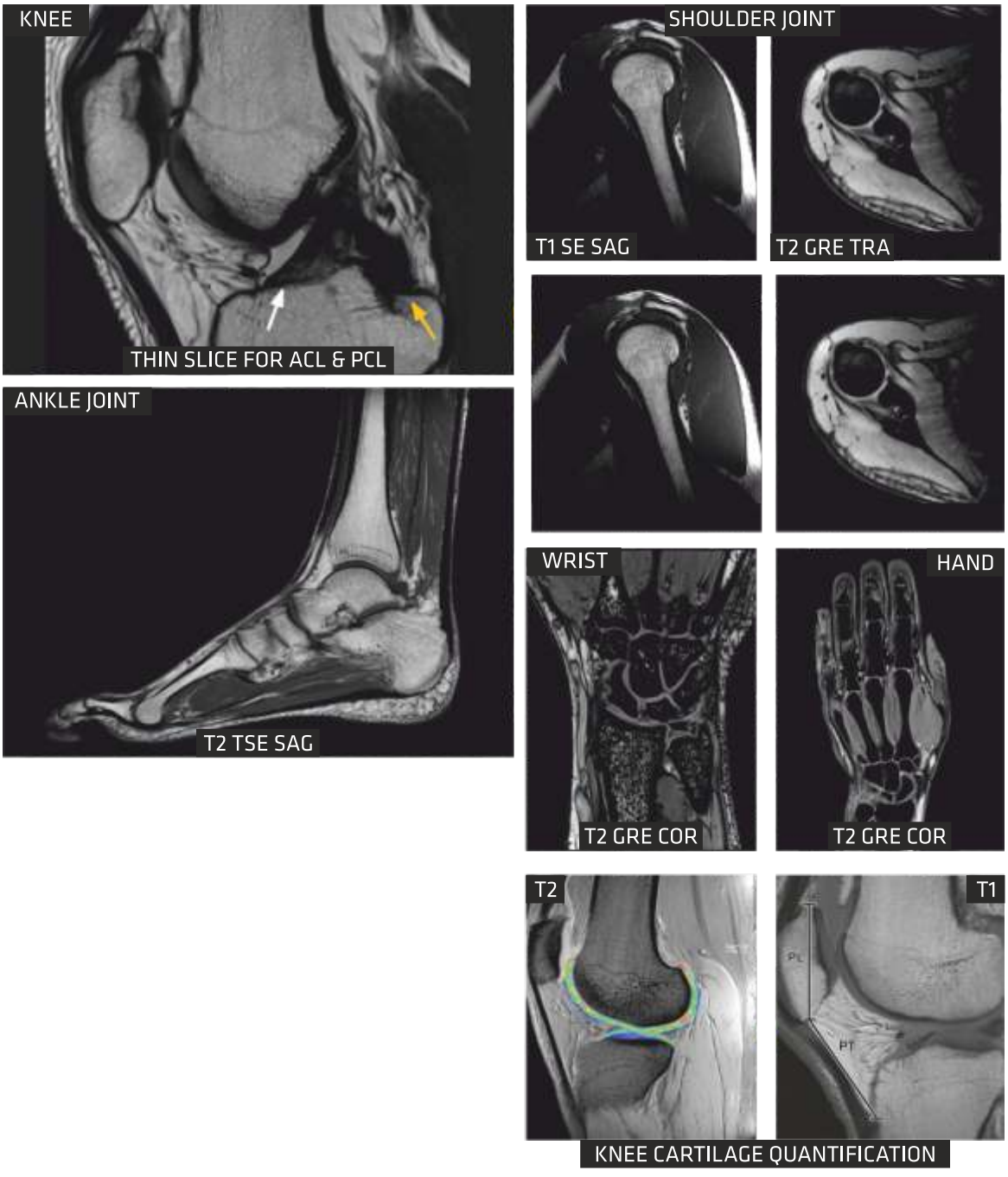

T2 TSE TRA

Spine Imaging

Whole spine can be imaged, which has proved useful in the identification of occult vertebral dysplasia and in demonstration of intraspinal and paraspinal neo-plasma.

MSK Imaging

With advancements in MSK sequences, RF coils, computing technology and optimized magnet homogeneity, Clarity delivers high resolution musculoskeletal(MSK) images. This imaging technique enables you to image bone, joint and muscular soft tissue with remarkable tissue contrast.

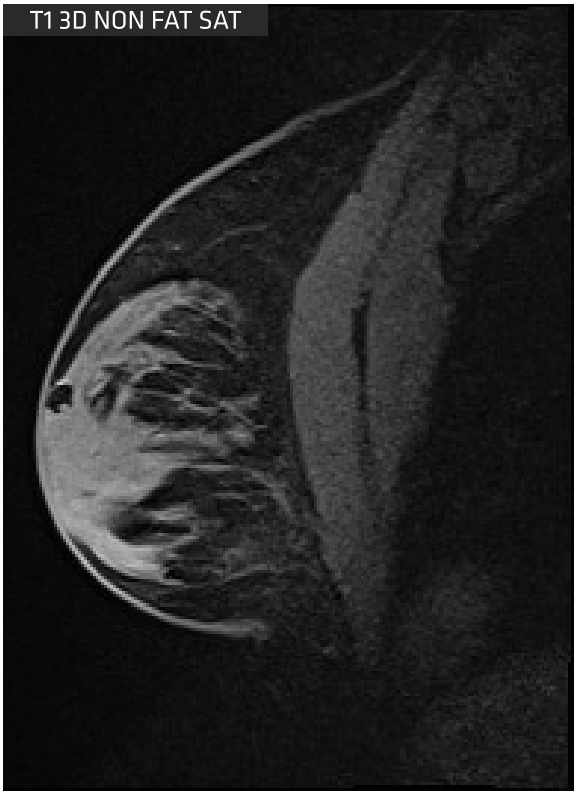


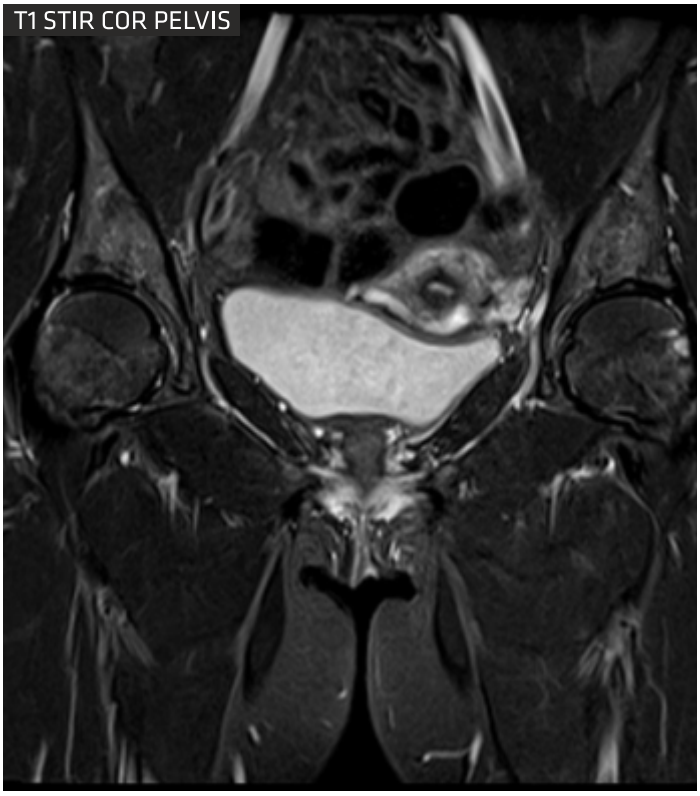
Cartilage Quantification

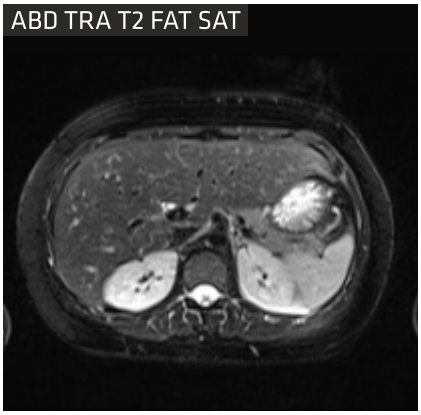
Cartilage Quantification provides quantitative assessment of cartilage composition to track the degradation of tissues in the early stages of multiple pathologies? within joints, which can't be detected by conventional imaging techniques. It allows for non-invasive measurement of collagen content.

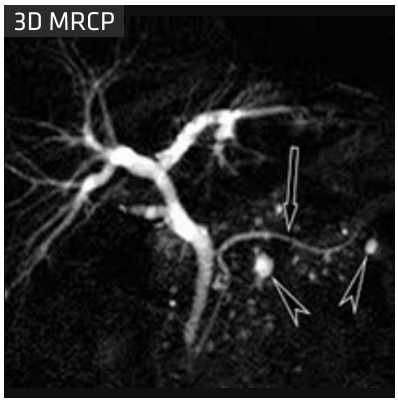
BREAST, ABDOMEN and PELVIS Imaging

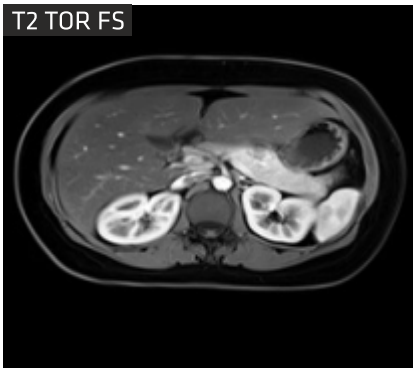
- Clarity 1.5T delivers comprehensive body imaging solutions with advanced tools
- Contrast Enhanced Body Imaging for whole-abdominal coverage at high resolution in short breath-holds, with excellent fat suppression and resolution
- PDFF: (Proton Density Fat Fraction) is a non-invasive imaging method to provide quantitative measurement of hepatic fat content in only 19 seconds
- Enhance inflow IR Consistent and reliable non-contrast, free-breathing imaging of the arterial and venous vascular, such as the renal and portal vein

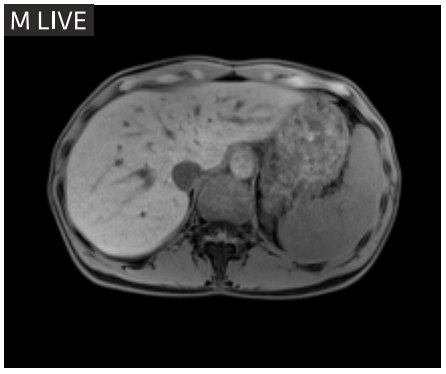


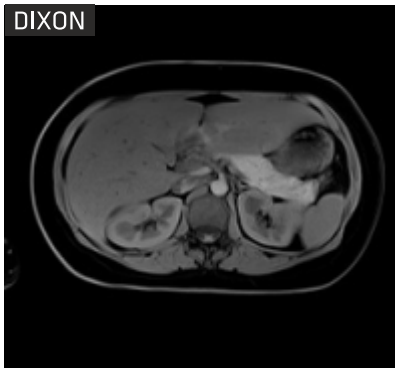


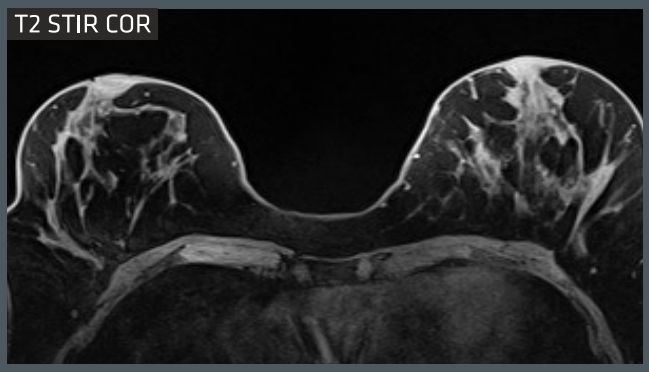


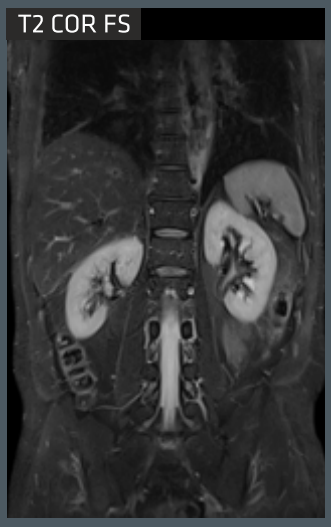


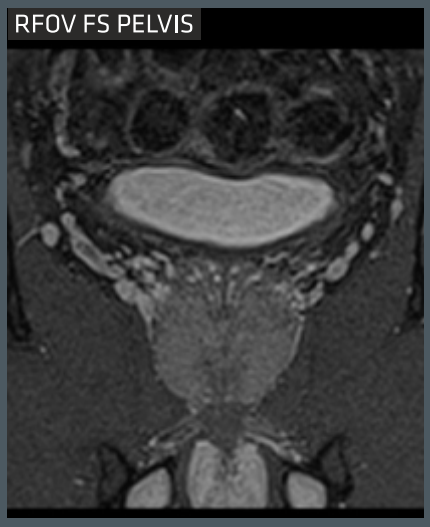






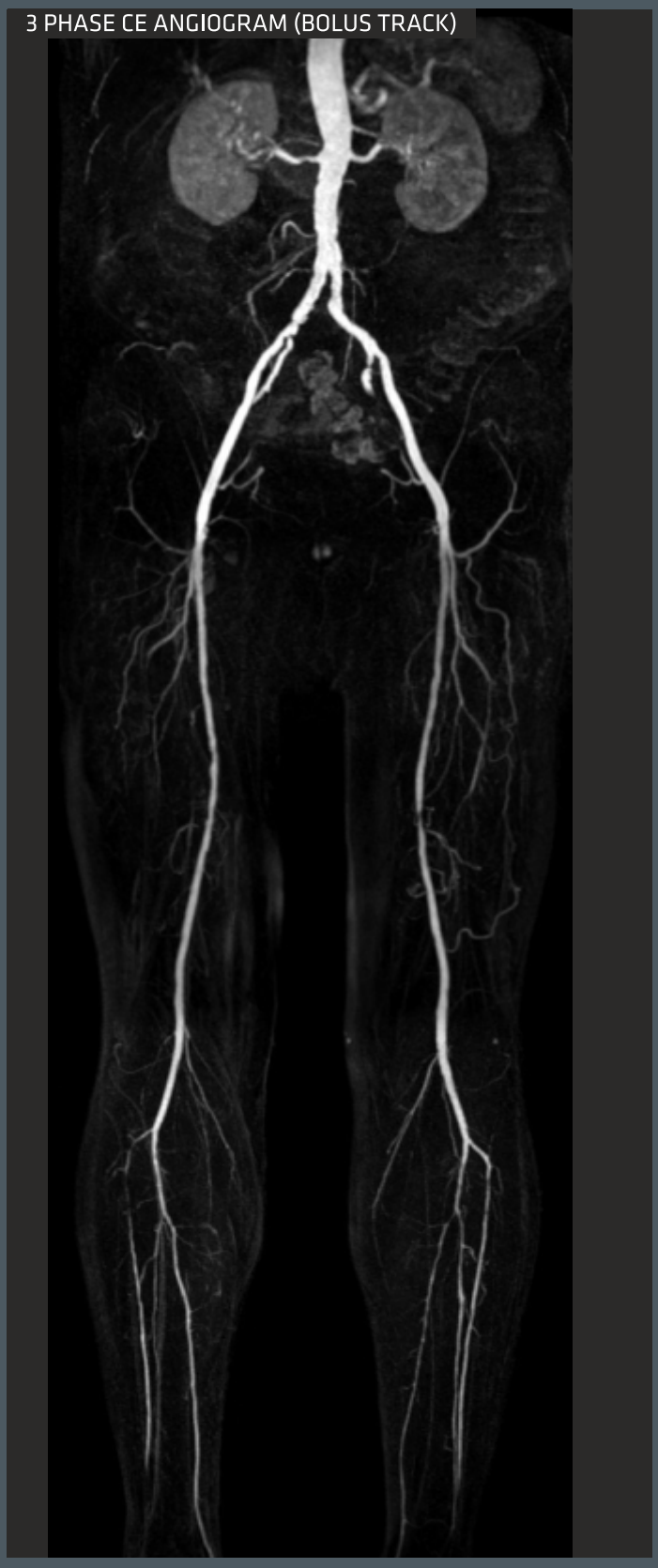


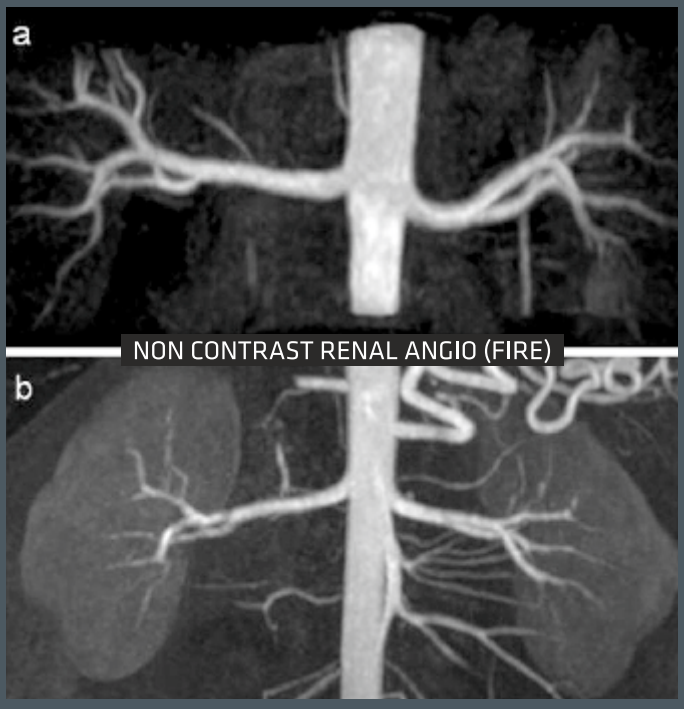




WHOLE-BODY Imaging

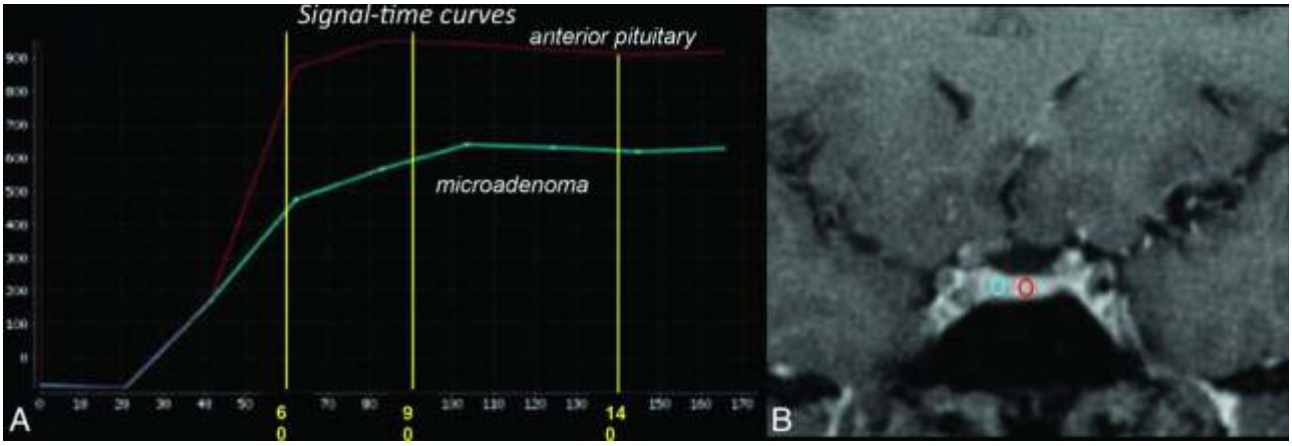
WHOLE-BODY ANGIO Imaging

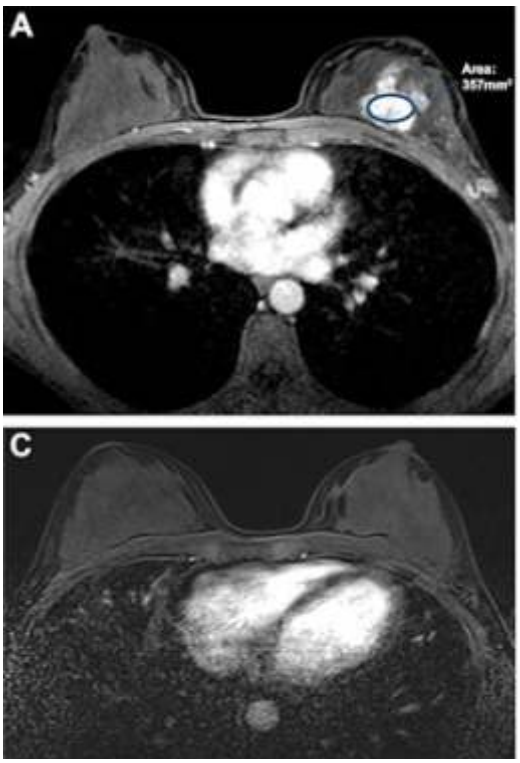


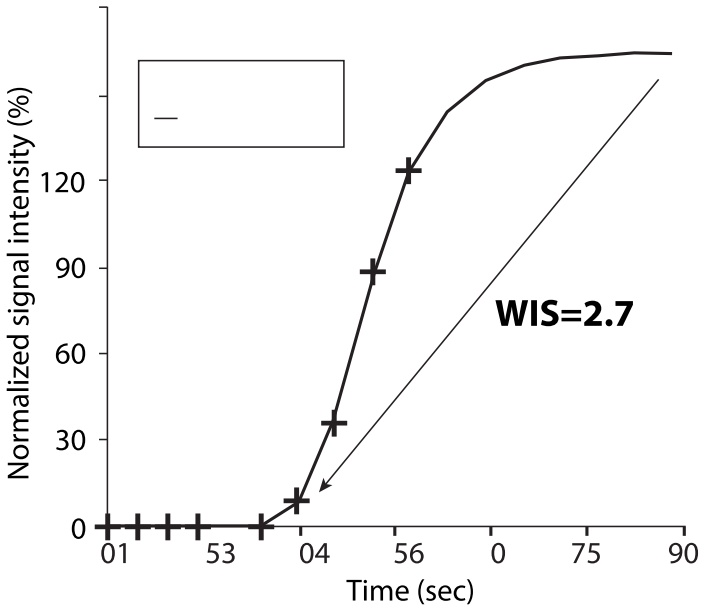


Dynamic Contrast Enhanced MRI

Dynamic contrast-enhanced magnetic resonance imaging (DCE-MRI) employs semi-quantitative analysis, including first-pass methods. Its swift scanning capability in pituitary imaging enables a more accurate depiction of changes in blood supply, thereby enhancing the detection rate of microadenomas.





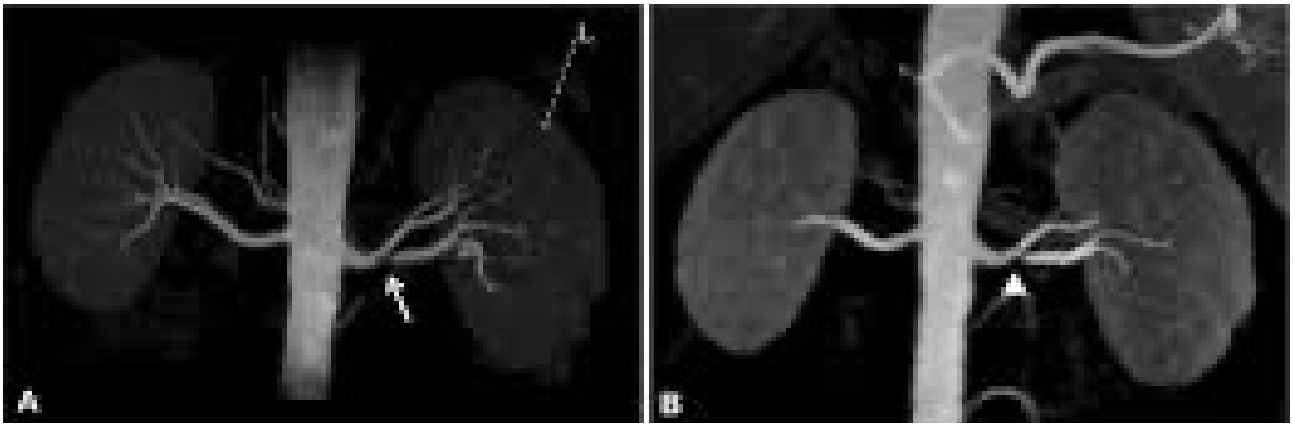


Live Dixon

DIXON is a relatively new gradient-echo MR sequence that helps us visualize fat and water content in anatomical structures. It is reported to be useful in abdominal and brain imaging.

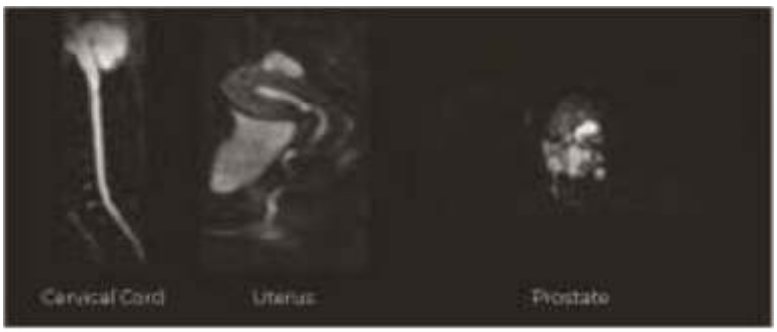
3D FIRE

Non-contrast-enhanced (NCE) renal magnetic resonance angiography (MRA) serves as an excellent alternative to the conventional contrast-enhanced approach. This method eliminates the need for ionizing radiation and avoids the injection of gadolinium, a contrast material. The advantages include minimized patient discomfort, reduced examination expenses, and the avoidance of potential risks associated with nephrogenic systemic fibrosis.



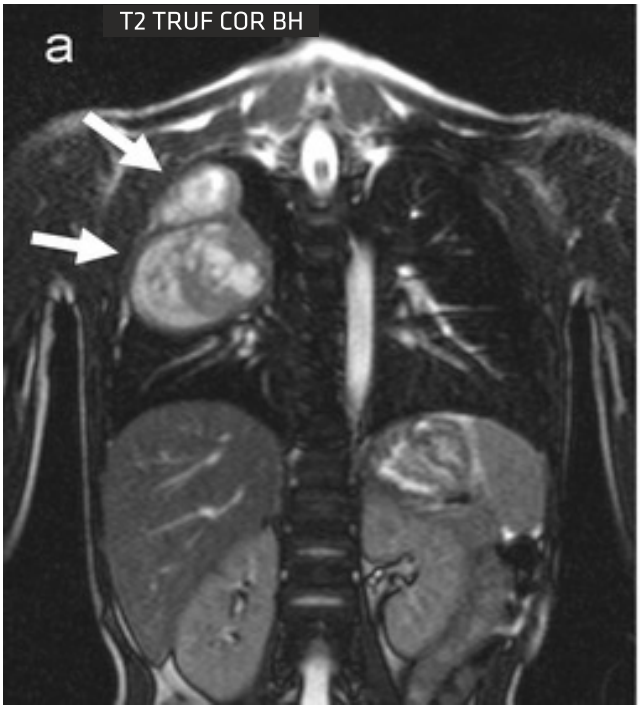
rFOV

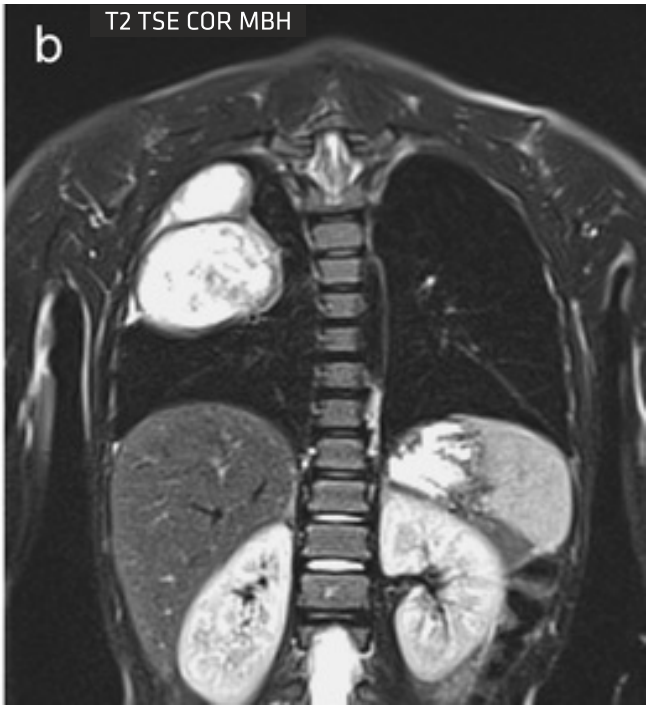
DWI can be applied on spine, uterus and prostate, and increases clinical confidence in the diagnosis of numerous common pathologies.



Advanced Body imaging

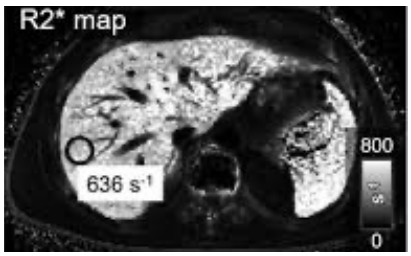
The Sequoia Healthcare Clarity 1.5T offers comprehensive body imaging solutions with advanced tools tailored for patients. Its Free Breathing (ARCUS) MR Imaging protocols primarily utilize either breath-holding techniques or respiratory gating to effectively minimize motion-related artifacts, ensuring clearer and more accurate imaging results.

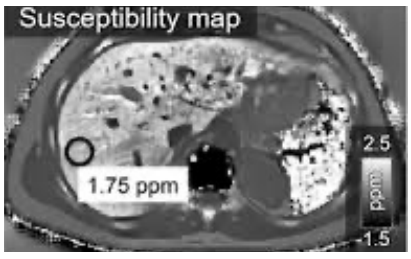


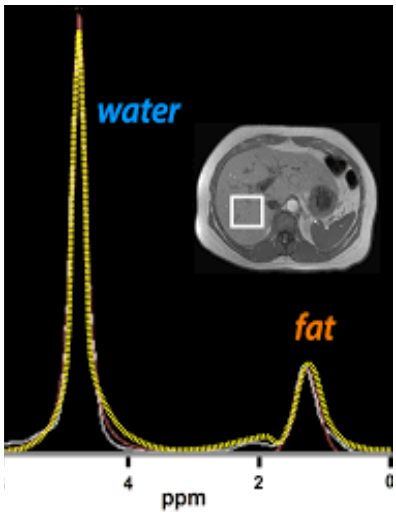


mLIVE

A visualization platform is available, granting access to sophisticated post-processing technology. Leveraging the Proton Density Fat Fraction (PDFF) method, it automatically segments and measures fat within the liver by creating quantitative fat-fraction maps.







MASSIVE Imaging (Metal Artifacts Reduction)

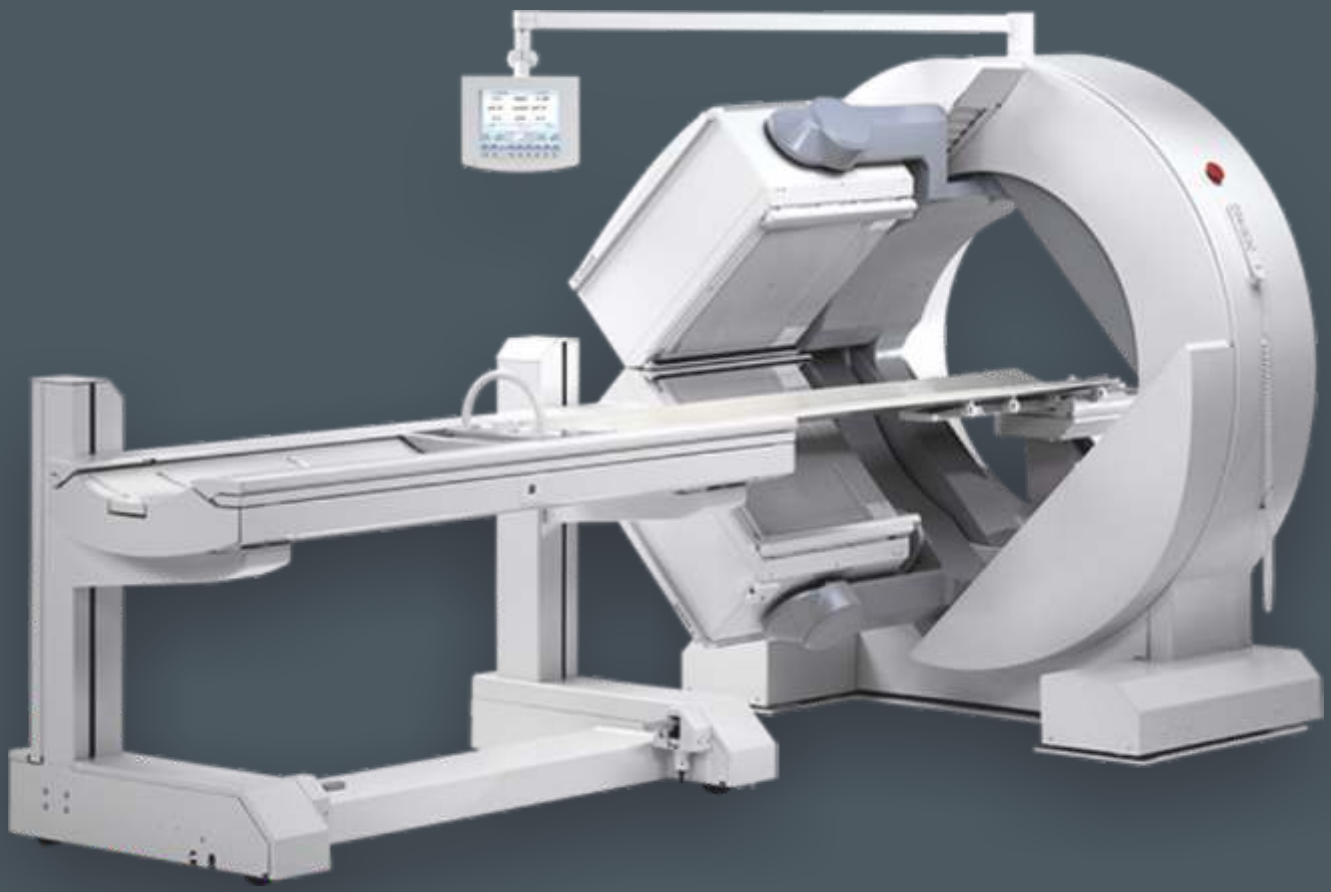
MASSIVE integrates various specialized techniques designed to minimize susceptibility artifacts arising from MR conditional metal implants. Utilizing high bandwidth techniques enhances the evaluation of soft tissues in patients undergoing MRI scans with MR conditional metal implants, resulting in improved imaging quality and accuracy.

3D MERGE

Specifically crafted for imaging the neck and cervical spine, this technique aims to fully eliminate pulsation artifacts.

MIE Scintron Gamma Camera with SPECT

Available in Single and Dual Head Configuration for complete nuclear medicine diagnostics.



- Large rectangular digital detectors, FOV 53,3 cm x 38,7 cm
- 59 Matched High Efficiency Performance Photomultiplier Tubes
- The detector design permits caudal, cephalic and external rotation versatility, with variable-angle model offering 90° to 180° configurability
- Compatible with existing x-ray system
- Open gantry design conceived with minimal space requirements for all scans
- Whole-body, SPECT and planar studies
- PHS with special ultra-thin imaging pallet (2,5 mm) improves image resolution for all procedures carrying patients up to 180 kg.
- Real-Time Infrared Body Contour System minimizes patient-to-detector distance for all whole-body and SPECT studies
- High-resolution patient positioning monitor for optimal viewing
- Choice of Collimators - LEHR, HEGP, MEGP

Inspiration 64

Smart Large bore 64-slice CT Scanner

64 Slice CT Scanner with smart features and large bore design to drive full body applications

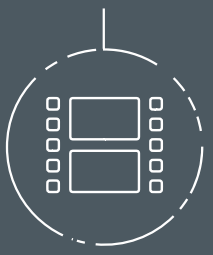
Main Components

- X Ray Tube 2MHU / 3.5 MHU (optional)
- Generator 32KW / 42 KW (optional)
- Detector 32 Rows – 64 Slices per rotation
- Digital Tilt +/- 45 degree
- Patient table with in/out and up/down movement

3D Vision camera (optional)
Auto positioning and remote control

Smart workflow
From topogram to diagnosis

HD imaging chain
1024 matrix



New detector design
Shorter X-ray path that improves image quality

75cm large gantry aperture
Exceed routine scanning, and good for radiotherapy planning

Excellent iodine contrast
70Kv improves image contrast

Enhanced patient care with less dose
Keep good image quality while using less radiation dose

Multi-discipline applications
From radiology to treatment departments

Couch up/down
go easily with your CT Procedures

Do more with our brand new 64 slice CT platform

75cm Large Bore for Wide & Easy Applications

- Wide bore for easy access and enhanced patient comfort.
- Do more with wide bore.

Clinical Applications

- Do more range of clinical applications

Faster scan time advantages

- CAN Fast scanning with 32 row, 20mm detector and rotation time of 0.72 secs
- 3x faster scans
- Lesser tube usage
- Lower electricity consumption
- Less breath hold time, hence lower motion artifacts
- Do more with faster scanning techniques

2MHU X Ray tube is sufficient

- 3x faster scans reduces the tube heating, hence a 2 MHU tube is sufficient
- With iDream dose reduction software the tube cooling capacity is enhanced equivalent to a 5MHU tube.
- Do more with a 2MHU tube

Economic - Running

- Reduces power consumption of the gantry by automatically taking it to standby. When required, the scanner can wake up from standby immediately for the next scan
- Do more scans at lower cost

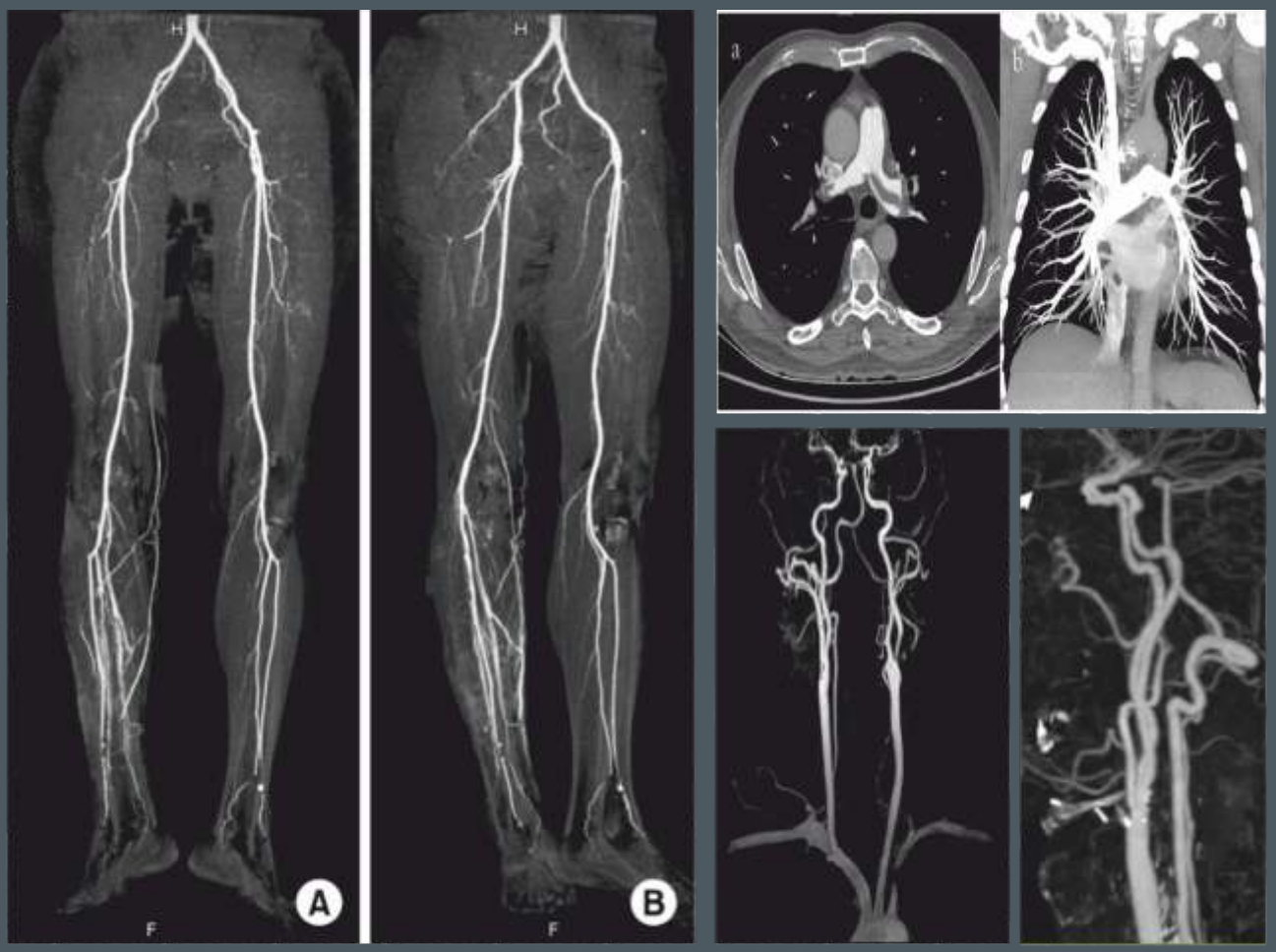
vPixel Detector

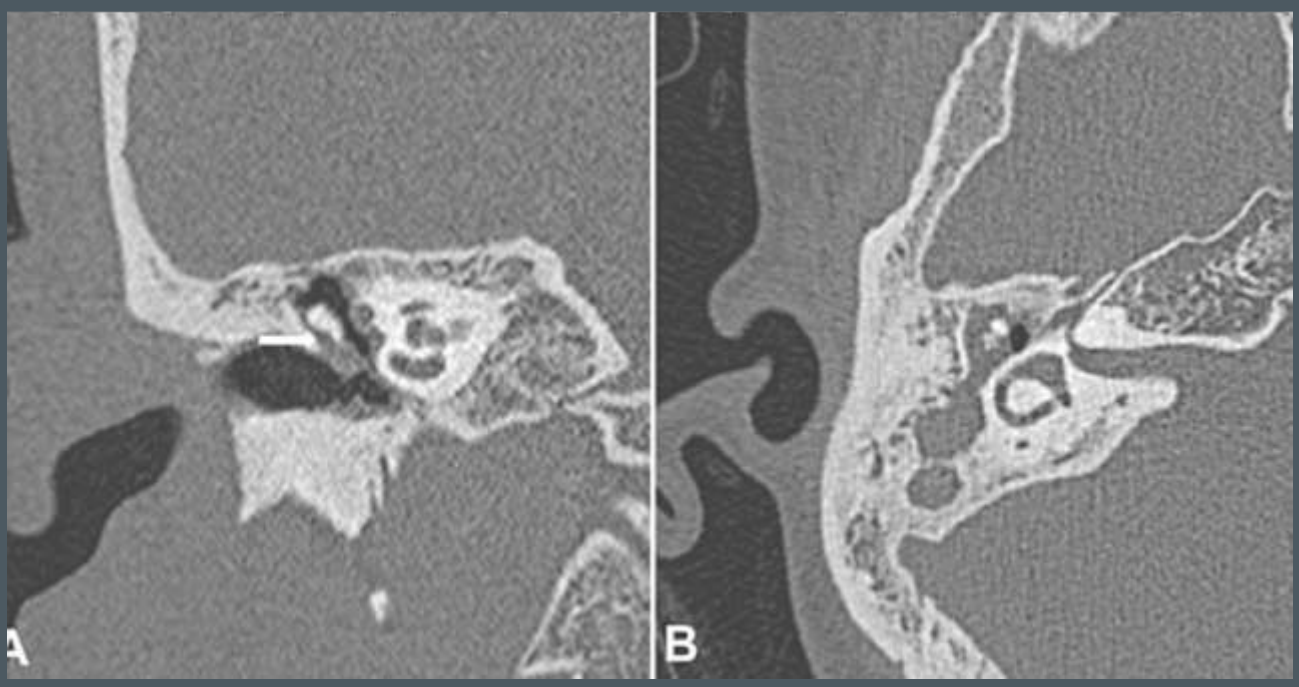
- A key component of the scanner is our new
- VPixel detector. Short X Ray path with improved image quality.
- Do more with our new detector technology

Computer System

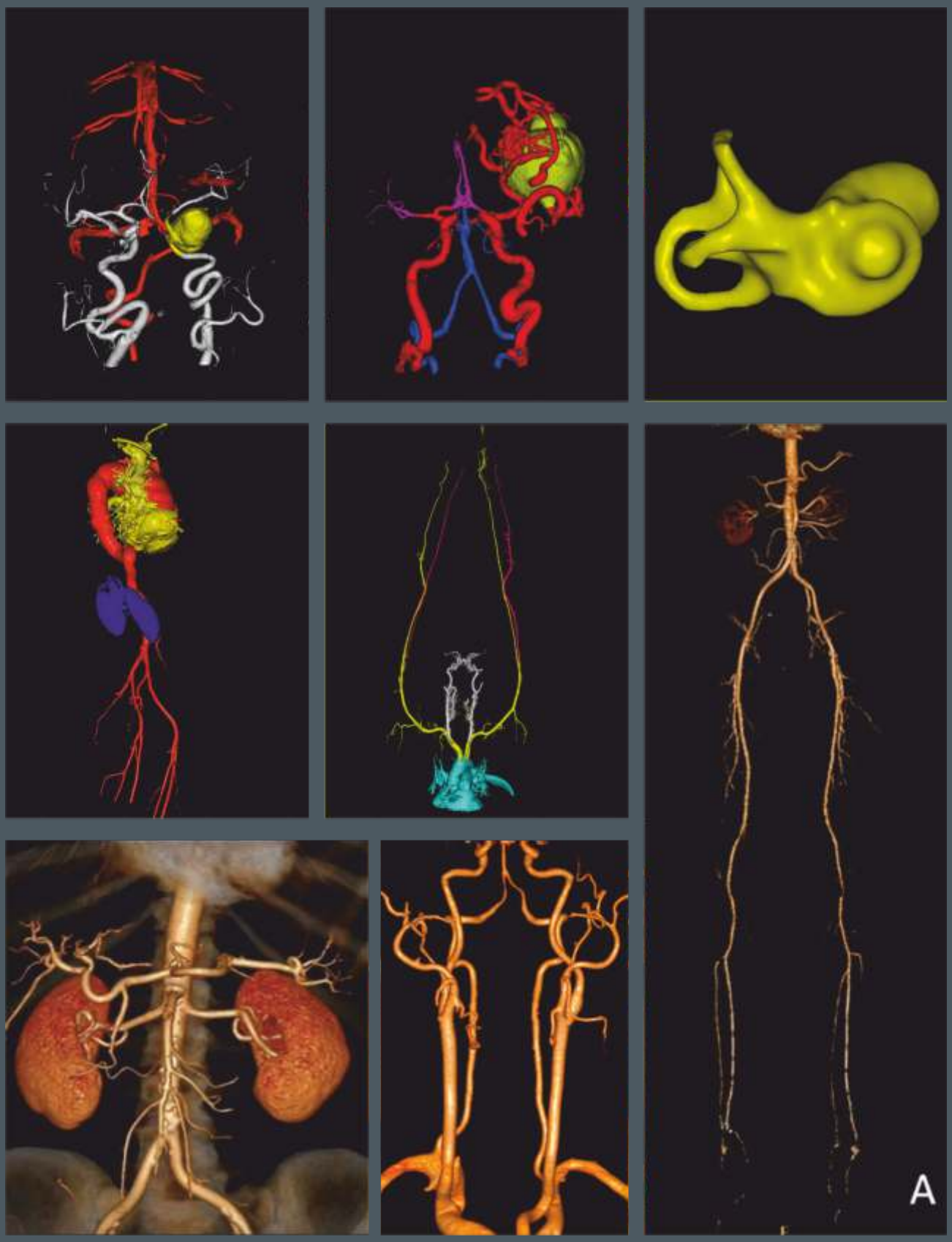
- Do more with our, New generation fast processor for speed and flexibility.

CT Angiography Images



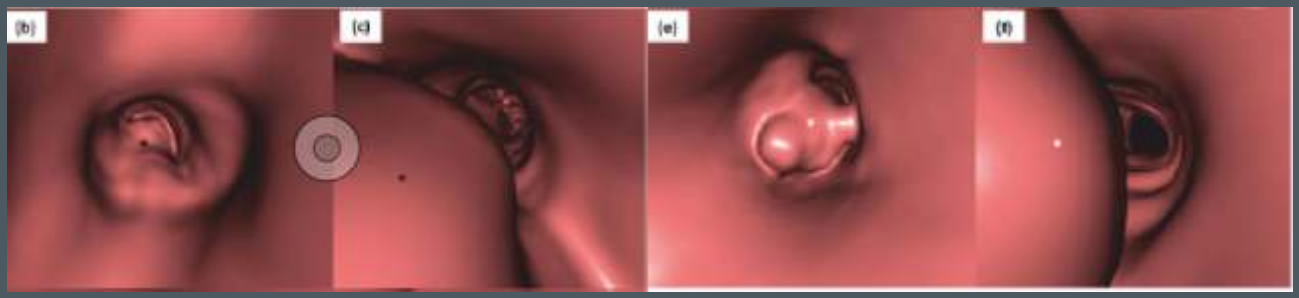


VRT Images



HRCT Chest Images

CT Bronchoscopy



SinoPower series
CT Injectors

Unique design of "Direct Pressure Sensor" protect patient

(Patent No.: ZL200920129005.9)

- Real-time injection pressure display
- When the actual pressure exceeds the limit, the system will automatically stop injection and give alarm
- Effectively reduce the swelling caused by vascular rupture (See the application case)

SinoAngio series
DSA Injectors

Specifications of DSA High-Pressure Injector

Model	SinoAngio-1200	SinoAngio-600
Syringe	Single syringe	
Size of syringe	150mL sterile syringe	
Injection volume	0.1mL ~ Volume of syringe	
Injection delay	0~600 s	
Injection phases	1~8 phases	
Injection protocol	Up to 120 protocols	
Tilt lockout	Rotate head to arm-down, minimize risk of air embolish	
Control console	12.1 inch real color touch LCD for both local and remote (Remote is optional)	
ISI	Synchronization of injection delay and scanning delay	
Pressure limit	100 ~1200 Psi	100 ~600 Psi
Flow rate	0.1mL/s~50.0mL/s Step: 0.1mL/s for 0.1mL/s≤X≤10.0mL/s 1mL/s for 10mL/s<X≤50.0mL/s	0.1mL/s~25.0mL/s Step: 0.1mL/s for 0.1mL/s≤X≤10.0mL/s 1mL/s for 10mL/s<X≤25.0mL/s

SinoMRI series
MRI Injectors

Specifications of MRI High-Pressure-Injector

Mode	SinoMRI-A/AP SinoMRI-B/BP
Syinge	Double
Size of Syringe	65mL sterile syringe
Injection Volume	0.1mL~Volume of Syringe
Delay	0~900s
Pause	0~900s
Injection phases	1-8phases
Injection protocol	up to120protocols
Pressure limit	50~300psi 1psi increments
KVO	0.1ml Pulsed every20~90s 1s increments default 30s
Flow Rate	0.1ml/s~10ml/s 0.1ml/s increments

Service is our passion

We are passionate about service to our customers.
Service is our adrenaline for success

Installation

We do deinstallation, shifting and reinstallation of MRI, CT scanners, Gamma Camera and others.

Maintenance

We are currently providing maintenance support for Siemens & Phillips MRI Scanners,
Siemens CT Scanners,
Siemens Gamma camera and others.

Repair

We undertake all repair services for
MRI> Pre cooling (warm to cold) all magnets,
Cold head repairs, Coil Repairs, all Parts repair.
CT > All parts repair
Gamma Camera > all parts, Head rebuilds.

Spare Parts

We supply parts for all MRI and CT Scanners, Gamma Camera.

PAN India Presence

We have our teams at:

- Bangalore
- Chennai
- Cochin
- Hyderabad
- Vijayawada
- Visakhapatnam
- Bhubneshwar
- Pune
- Kolhapur
- Mumbai
- Nagpur
- Delhi
- Jaipur
- Ahmedabad
- Lucknow
- Kolkatta

SEQUOIA HEALTHCARE

Sequoia Healthcare Pvt. Ltd.

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AMTZ Campus, Near Pragati Maidan,
VM Steel Projects, S.O Visakhapatnam - 530031

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Rishi Arcade, Moosarambagh, Hyderabad.
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