

ACUSON Sequoia 3.5 Customer Presentation

Clarify with Confidence



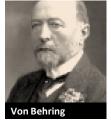




Our long story of success







1901 Nobel prize winners (Physics and Medicine)

1933

-

rotating anode

Our first

1953



1909



The fastest Xray device of its



First ever dry chemistry testing for glucose in urine





First fully automated



discrete chemistry analyzer for whole blood or

1967

scanner

World's first real-time ultrasound

First nuclear

scanner from

First glass

blood-gas

electrode for

medicine

Siemens

1964









World's first spiral CT scanner

1991

First point-of-care

Our first PET/



799

First intuitive

platform from

medical IT

2001







World's first

Dual Source CT



Multi-modality 3D imaging



First integrated. simultaneous whole-body MRI

transducers

2014

for ultrasound

"Free breathing"

CT scanning with

dual X-ray

detectors

sources and





2015

research 7T

MAGNETOM 7T

First Twin Robo-

tic X-ray for

productivity

care and

better patient

Cloud-based

teamplay

2015







2016

Liquid biopsy

rendering for 3D

2017





Mobile opermark and measure potential abnormalities tion: SOMATOM



mote scanning assistance: MRI technology syngo.Virtual adapting to Cockpit¹ human nature



Blood gas test-

the patient's

AI-enriched

offerings

2018

ing available at

FAST 3D Camera - automated precise patient positioning



epoc system: blood gas analyzer powered

50

Innovision:



Al-enabled user guidance system: myExam Companion



Breaking bar-

riers to expand

the reach of

MRI: MAGNE

TOM Free May

Syngo Carbon⁵

New software

environment for

enterprise ima-

In-vitro dia-

for SARS-

gnostic assays6,

CoV-2 detection

Biograph Vision

MR Fingerprinting3: Leverage quantitative data to under-stand more precisely a patient's condition











Multi-modality

imaging decision

support with Al-

Rad Companion

AIDAN Artificial

Intelligence for

Imaging











2021



stick test for high-sensitivity



integrated port-

cancer through

joining forces

with Varian

Partners in

Disruptively

MAGNETOM

simple approach

ships | Oncology

folio for fighting



Ethos™

2025

C ... MAGNETOM

Cima.X &

MAGNETOM

MAGNETOM

Viato.Mobile

Halcyon® and









SOMATOM Pro.Pulse1 Unlock Dual Source technology Everywhere

For everyone. Everywhere. Sustainably.

Innovating personalized care

Achieving operational excellence

Transforming the system of care

Future

The products/features (mentioned herein) are not commercially available in all countries. Due to regulatory reasons, their future availabliity cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details. | 1 syngo. Virtual Cockpit is not commercially available in all countries. Due to regulatory reasons its future availability cannot be guaranteed. Precondition: Expert-i enabled modality from Siemens Healthineers. | 2 Innovision is still under development and not commercially available yet. It is not for sale in the U.S. Its future availability cannot be ensured. | 3 The product / feature is not for sale in the U.S. Its future availability cannot be guaranteed. | 4 Several devices of Al-Rad Companion are planned and under development, not commercially available in all countries, and their future availability cannot be ensured. | 5 Syngo Carbon consists of several products which are (medical) devices in their own right. Some products are under development and not commercially available. Future availability cannot be ensured. | 6 These SARS-CoV-2 molecular and serology tests have not been FDA cleared or approved. These tests have been authorized by FDA under an EUA for use by authorized laboratories. The molecular test has been authorized only for the detection of nucleic acid from SARS-CoV-2, not for any other viruses or pathogens. The serology test has been authorized only for detecting the presence of antibodies against SARS-CoV-2, not for any other viruses or pathogens. These tests are only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Act, 21 U.S.C. § 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner. | 7 The Siemens Healthineers lab and POC antigen assays are not available for sale in the U.S. Product availability may vary by country and is subject to regulatory requirements. | 8 The product / feature is not for sale in the U.S. Its future availability cannot be guaranteed. | 9 The products are still under development and not commercially available yet. Their future availability cannot be ensured. Siemens Healthineers neither intends, nor assumes any obligation, to update or revise these forward-looking statements in light of developments which differ from those anticipated. | 10 CIARTIC Move is pending 510(k) clearance, and is not yet commercially available in the United States. | 11 SOMATOM Pro. Pulse is pending 510(k) clearance, and is not yet

Our unique capabilities Reflected in our broad and deep portfolio



Patient Twinning¹

Imaging

A market leader in diagnostic imaging with systems for

- Computed Tomography
- · Magnetic Resonance
- Molecular Imaging
- Ultrasound
- X-Ray/Fluoroscopy
- Mammography Systems
- Digital Health Solutions
- Imaging Software and IT

Key clinical specialties

- Radiology
- Nuclear Medicine



UpTime Services

UpSpeed Services

Diagnostics

Accurate and timely test results plus, workflow excellence for lab and point-of-care settings

- Reagents, consumables and analytical instruments for testing
- Automation and IT systems
- Consulting and project management

Key clinical specialties

• Laboratory, molecular, and point-ofcare diagnostic tests for nearly every disease and every healthcare setting



Varian

Cancer treatment ecosystem for streamlined, comprehensive patient-centric care

- Radiation Therapy
- Brachytherapy
- · Proton therapy
- Radiosurgery
- Interventional Solutions

Key clinical specialties

Interventional Radiology

Precision Therapy

Multi-modality imaging solutions

Advanced Therapies

Empowering advanced

therapy concepts

Angio Suites

Cath Labs

Hybrid ORs

Mobile C-arms

- Cardiology
- Surgery



Key clinical specialties

- Radiation Oncology
- Interventional Oncology
- Radiosurgery



Digital, Data and Al

Customer Services

Digitally-enabled and available in customizable service plans

- UpSkill Services
- UpTeam Services

Value Partnerships

Long-term, performance-oriented, collaborative commitments, focusing on

- Technology Operations
- Workforce
- Facility

- Strategic Transformation
- Digital Innovation

UpLift Services

UpScale Services

Global market dynamics – Staff shortage





The world is projected to be short of

10 million

healthcare workers by 20301

Growing world population

Staff retiring

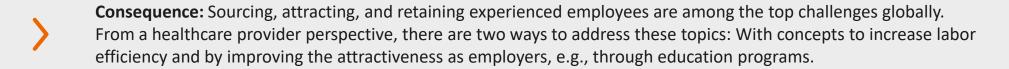
Internal and international migration

Staff **leaving** for better paid jobs

Not enough young people enter profession/being adequately trained



practicing doctors per 1,000 population globally²



We are shaping the sustainability journey of the healthcare industry together





people lack coverage of essential health services¹



global GHG emissions generated by healthcare²



of senior and middle management positions globally occupied by women³

We are taking action by

Improving healthcare access for all

- Empowering healthcare providers to reach underserved communities
- Diagnosing diseases early and shifting to preventive care
- Strengthening healthcare workforce capacity and capability by providing education and training

Preserving our planet's resources

- Becoming net zero by 2050 by driving decarbonization across our value chain
- Transitioning to a circular economy and adopting sustainable design
- Supporting healthcare providers to achieve their sustainability targets

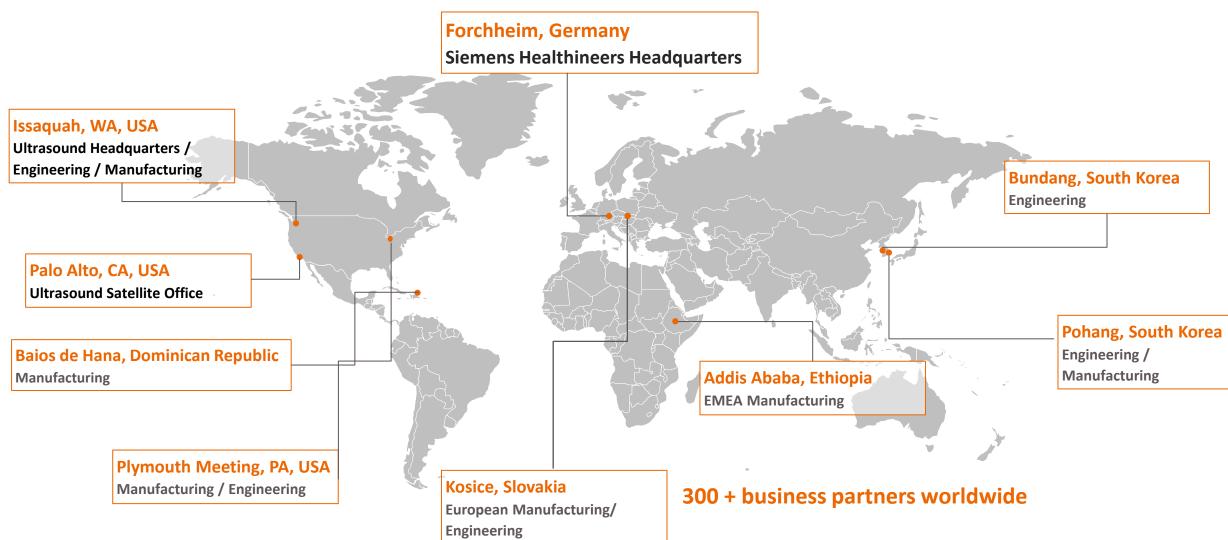
Developing diverse & engaged Healthineers

- Increasing the proportion of women in senior leadership roles as well as other forms of diversity
- Continuing to strive for highest levels of engagement and being recognized as one of the best places to work

- Combining local expertise at global scale with employee-led initiatives, and global and regional partnerships
- Creating sustainable value through responsible business, transparent reporting and leadership

Ultrasound has a wide, sustainable footprint across the globe

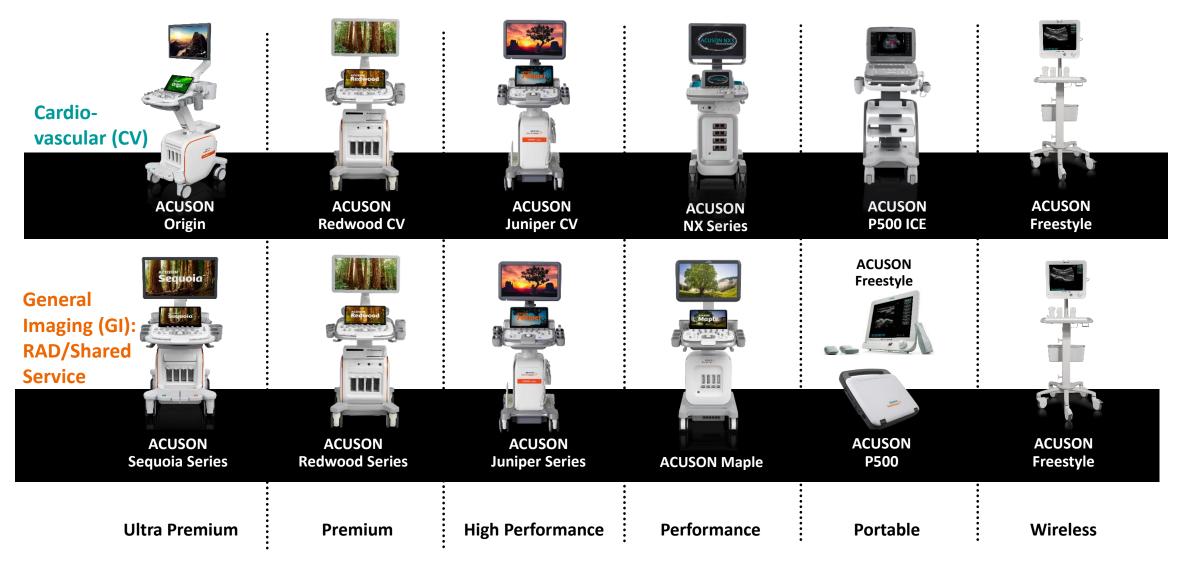




Siemens Healthineers has the youngest ultrasound portfolio

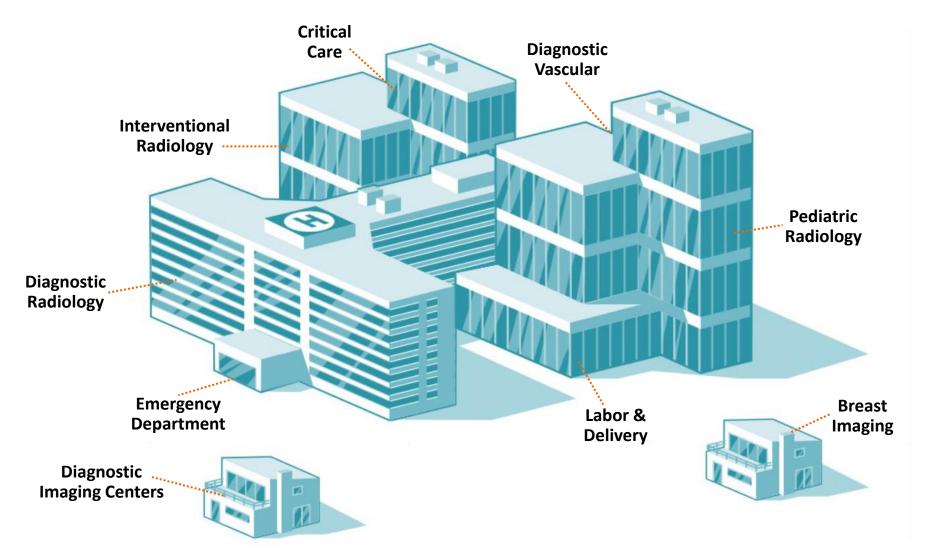


With a commitment to continue purpose-driven innovation



Demand for ultrasound is growing across every healthcare system





We are focused on solving big clinical challenges





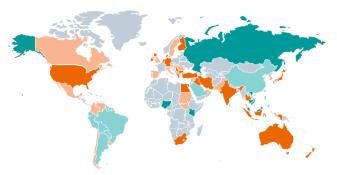


Breast Cancer



Cardiovascular

30% global MASLD prevalence¹



>2 million

Worldwide, over 2.25 million **new breast cancer cases** were diagnosed in





Heart Failure



Structural Heart Disease (SHD)



Coronary Artery Disease (CAD)



Arrhythmias/EP

¹ YipTC, VilarGomezE, PettaS, YilmazY, WongGL, AdamsLA, et al. Geographical similarity and differences in the burden and genetic predisposition of NAFLD. Hepa-tology 2023;77(4):1404–27. doi:10.1002/hep.32774.

² Breast cancer care (siemens-healthineers.com)

Our focus on AI in ultrasound is rooted in addressing our customers' pain points



Customers are facing increasing shortage of trained workforce

Improving workflow, automation and quantitative measurements to leverage a broader workforce and lower dependency on declining sonographer base.

90% of ultrasound users are scanning in pain¹

Embracing automation and Artificial Intelligence to help reduce exam time while improving ergonomics and diagnostic confidence.

Standardization is key to drive better outcomes, consistently

Implementing procedure specific protocols and out-of-the-box advanced quantification enables standardization; simplified software maintenance allows for better fleet management.





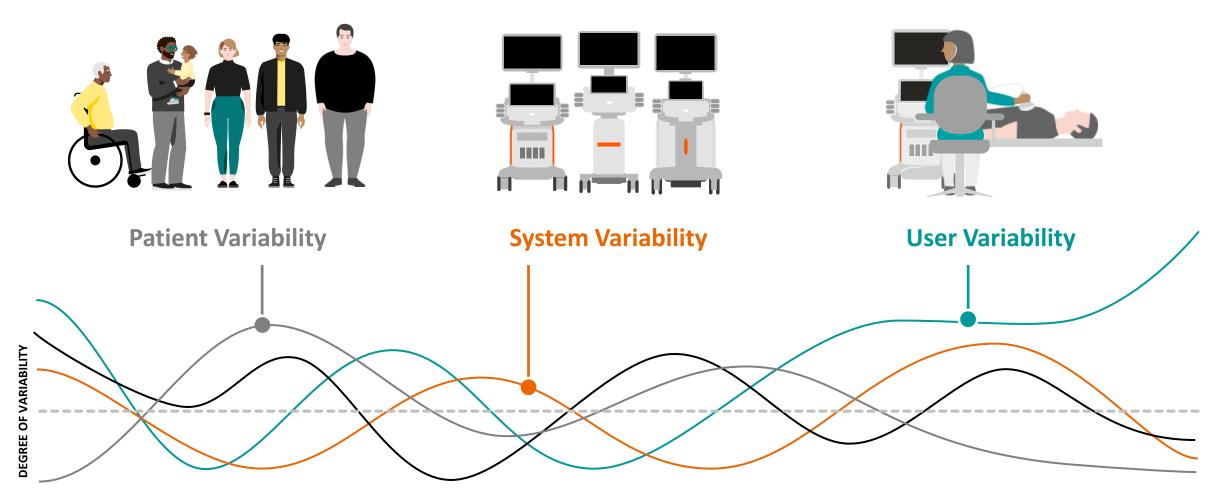
ACUSON Sequoia

Clarify with Confidence



Ultrasound's potential has been limited by unwarranted variability





Reduce unwarranted variations for continuous improvement

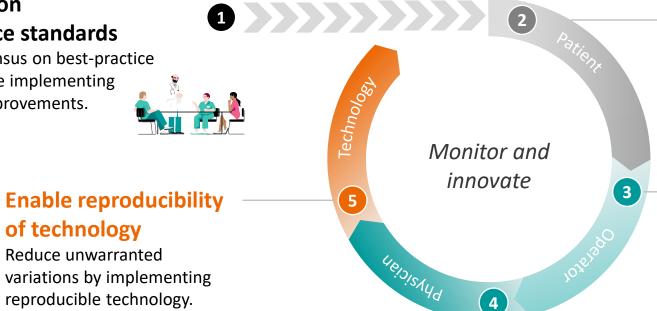


Consensus on best-practice standards

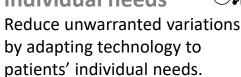
Achieve consensus on best-practice standards while implementing continuous improvements.

of technology

Reduce unwarranted



Adapt to patients' individual needs



Support operator through automation

Reduce operator variations by increasing levels of automation.



reproducible technology.

Assist decision-making of physician

Reduce variations in care paths by assisting decision-making of physicians.

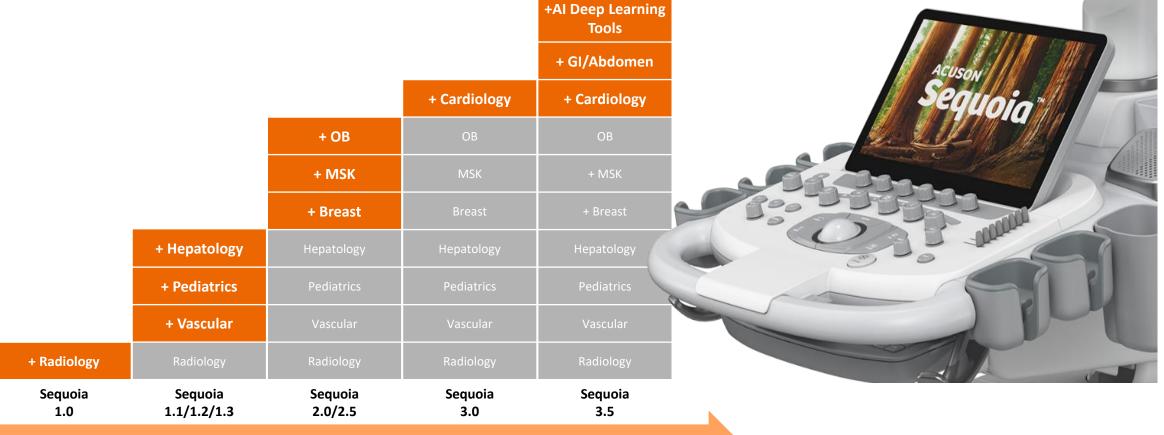


ACUSON Sequoia is the youngest premium system in the market significantly improving addressability over time



Investment Security

Expanding clinical excellence across use cases



ACUSON Sequoia is designed to help you improve diagnostic confidence and patient outcomes





Intelligent Imaging

Experience powerful imaging and reduced variability with automation in each major mode and a wide selection of advanced transducers.

- InFocus Imaging
- UltraArt
- Freehand 3D
- Advanced transducers



Expanded Insights

Expand your expertise with advanced tools and AI innovations designed to improve diagnostic confidence and patient outcomes.

- Al Abdomen
- Al Cardiology
- 2D Next-Gen SWE
- UDFF



User-Driven Design

Embrace advanced productivity with AI powered tools and an intuitive design for the ultimate user experience.

- Walk-up Usability
- Workflow
- Gesture Detection







Intelligent Imaging

Experience powerful imaging and reduced variability with automation in each major mode and a wide selection of advanced transducers.

Technologies designed to help improve patient outcomes



InTune

Transducer Technology



InFocus

Fully Focused Imaging



Color Automation

Artifact Reduction



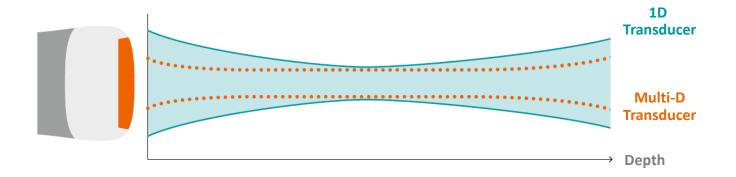
Slow Flow

Micro Vascular Enhancement



Employing an advanced form of Multi-D beam formation Eliminating limitations in difficult patients with DAX





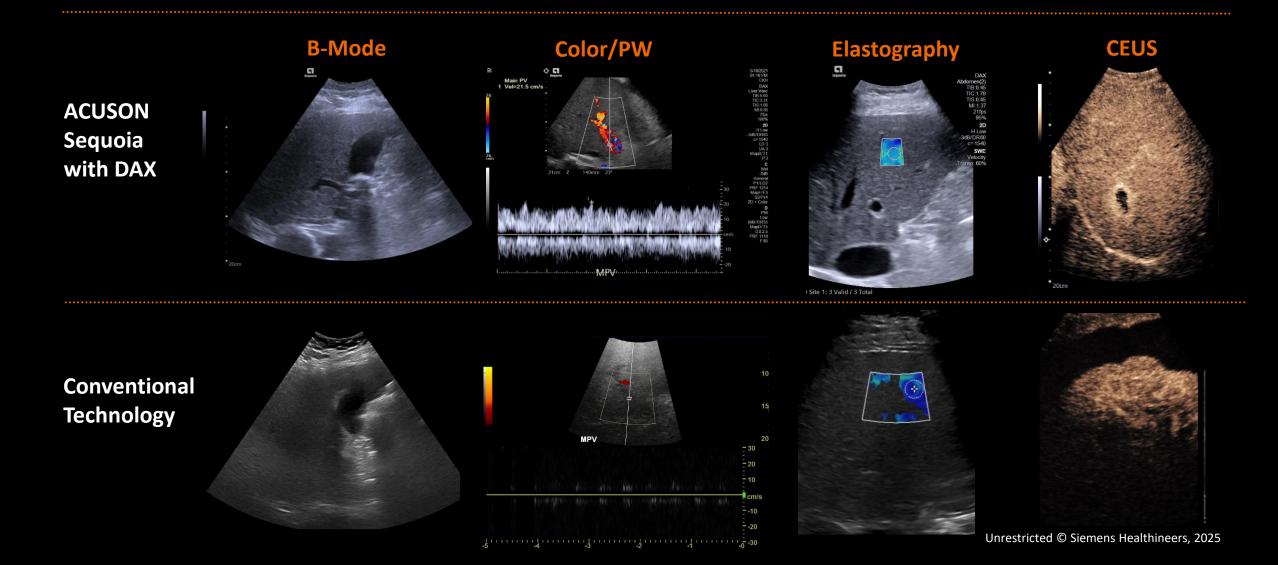
The advanced Multi-D beam formation of the DAX controls the beam thickness and beam formation providing a new standard in deep abdominal imaging.

DAX Transducer Reducing excessive transducer pressure



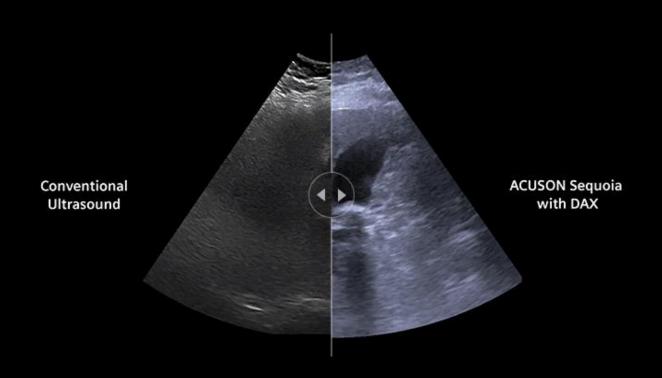
DAX transducer improving diagnostic confidence and reducing unnecessary follow-up in challenging exams





Benefits of DAX transducer 69-year-old male – BMI 41.6 Indication – Abdominal pain (severe obesity)





ACUSON Sequoia identified multiple mobile gallstones not visualized on the conventional ultrasound technology

Conventional Ultrasound Results

- Limited due to body habitus
- Unable to obtain quality color in portal vein or hepatic veins

ACUSON Sequoia Results

- Full qualitative liver evaluation
- Good color Doppler Portal & Hepatic Veins
- Multiple mobile gallstones

RUQ pain, Hx Cirrhosis, transplant list





Conventional ultrasound findings:

- Occlusive thrombus in main portal vein
- Technically limited exam

Follow-up imaging:

CT showed patent portal vein consistent with Sequoia

ACUSON Sequoia results:

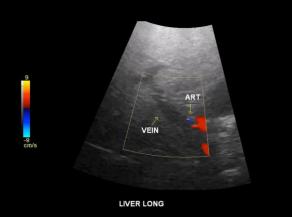
- Patent portal vein
- Complete abdominal exam

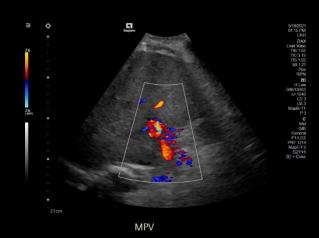
Clinical impact:

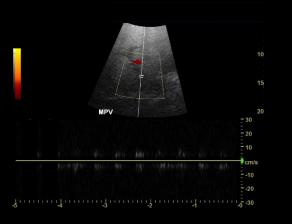
Sequoia with DAX would eliminate the need for follow-up exam to CT

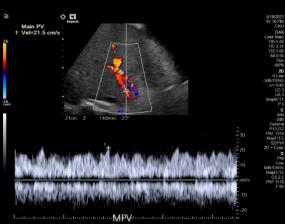
Conventional Transducer

ACUSON Sequoia with DAX









HLX High-frequency linear transducer





Achieve visual precision

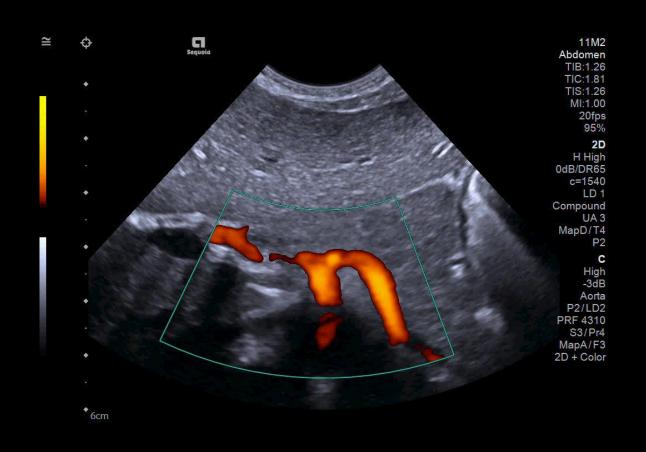
- Our highest frequency linear transducer
- Delivers resolution and penetration in one high frequency transducer—so you no longer have to sacrifice one for the other
- Optimized for imaging Breast, MSK Superficial, Thyroid, Testes, and Vascular

Designed to help reduce strain & pain

- Small footprint allows access to tight spaces
- Ergonomic grip allows for constant light pressure
- Gesture Detection Technology

Benefits of 11M2 MicroConvex transducer





MicroConvex transducer

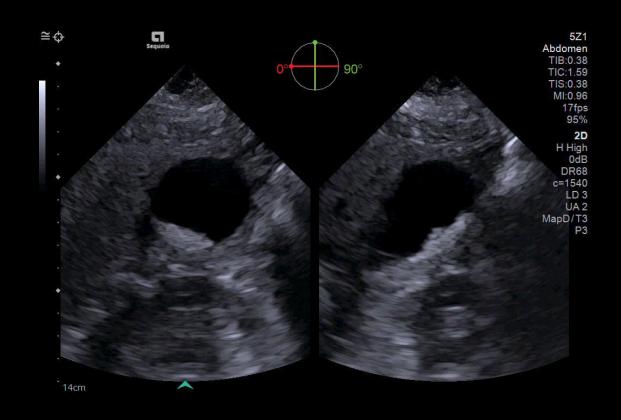
- Optimized for Abdomen and Neonatal Head
- Offers field of view from 85 degrees, up to 130 degrees to support visualization and measurements of extended anatomy

Designed for ergonomics

- Small footprint for small areas and small bodies
- Gesture Detection Technology

Benefits of 5Z1 Matrix Array transducer





Versatility for General Imaging and Cardiology

- Optimized for adult and pediatric imaging for Abdomen, Gynecology and Cardiology exams
- The ergonomic design with a small footprint supports challenging patient windows

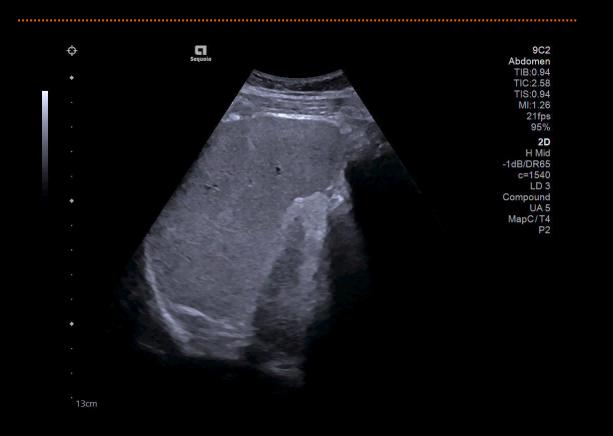
Matrix Array transducer

- 2D Bi-Plane+, 2D Bi-Plane Color, 4D Volume, and
 4D Color imaging
- Active electronics for instantaneous full volume imaging
- Gesture Detection technology

InFocus imaging technology for fully focused imaging with faster frame rates than conventional systems



Conventional Ultrasound

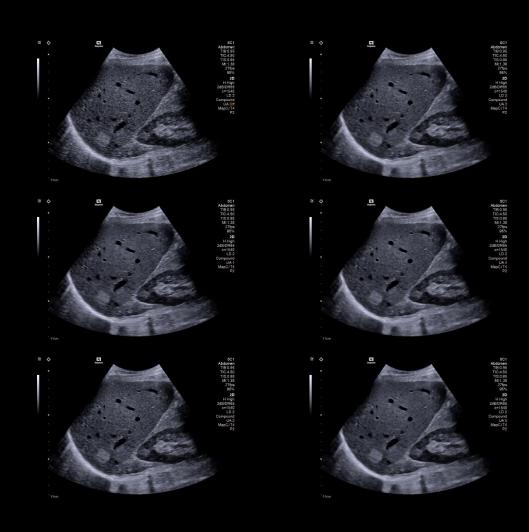


- Near, mid, and far fields are always in focus
- Eliminates manual focal zones for improved imaging with no user interactions
- Adaptive gain processing eliminates frequent adjustments by user
- High resolution imaging at high frame rates, even in mixed modes



UltraArt universal imaging processing





Delivers your image aesthetic preference

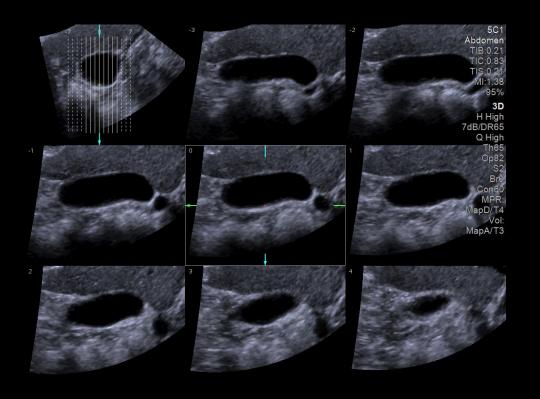
- Ultrasound the way you want it with a real-time, sixchoice display of imaging aesthetics at the touch of a button
- Select the image look you prefer, more or less processed, more or less speckle
- Like using a social media filter
- Helps reduce user eye fatigue

Realistic tissue presentation at near, middle and far fields

- Reduces speckle, enhances edges and contrast
- Includes motion compensation to reduce flickering artifacts
- Available in B-mode, PW, and Contrast modes
- Can be performed on real-time or frozen images

Freehand 3D





Efficient volume rendering with standard transducers

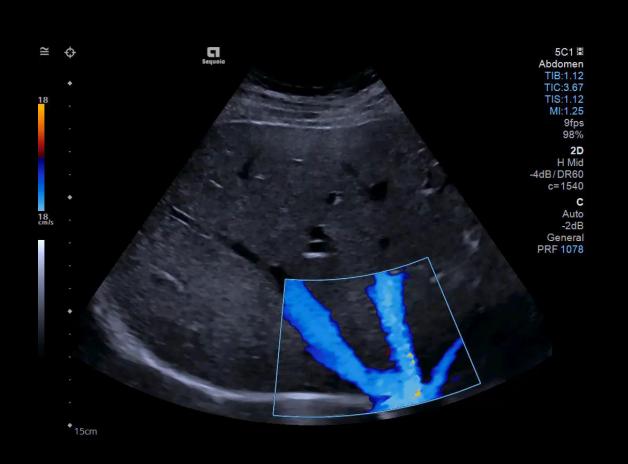
- No need to stop the exam to change to a specialized probe
- Saves costs of purchasing mechanical or matrix transducers
- Available on curved, linear, and endocavity transducers

Seamless workflow with volume manipulation tools

- Rocked and linear acquisitions
- Compatible with FlexPlane draw-through manipulation and reconstruction tool
- Compatible with LightSource tints for depth perception

Dynamic MultiHertz technology supporting automation and efficiency





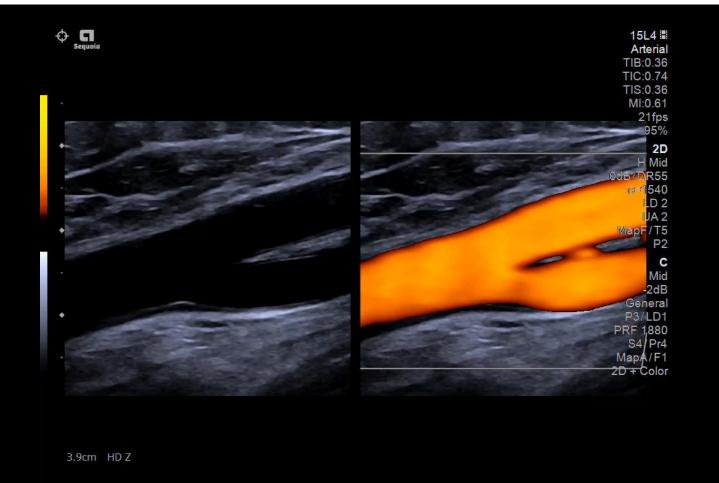
Color frequency changes based on ROI depth

Higher frequency for shallow depth

Lower frequency for deeper depth

Automatic motion suppression for improved image quality and consistency





Limits flashing and ghosting color artifacts

Conventional image processing restored when motion stops

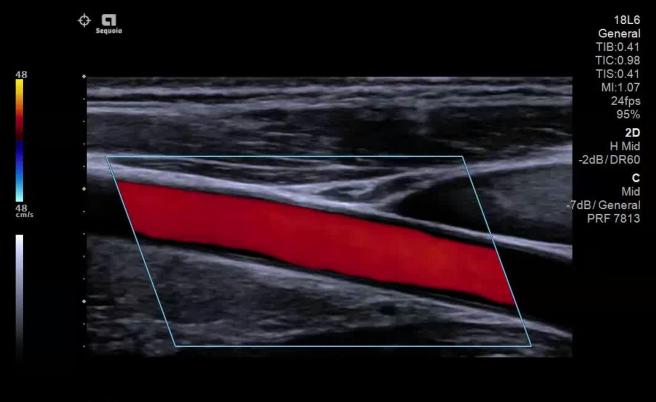
No user interaction needed

Address variability in Doppler with Auto Doppler TEQ



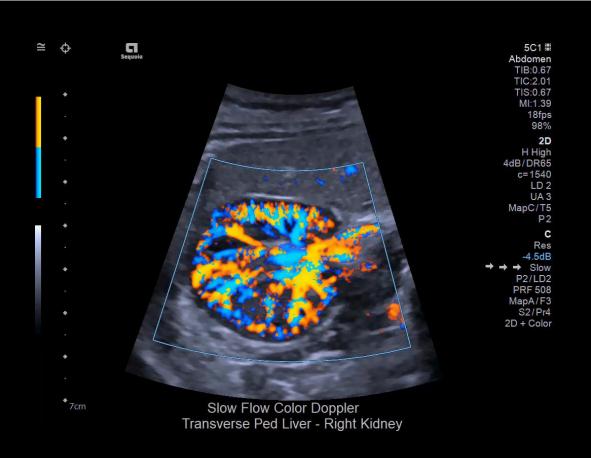
Automatically optimizes relevant Doppler parameters upon freeze with minimum user interaction for increased consistency, improved spectral quality and seamless workflow.

Allows for post processing of Doppler parameters if needed including Baseline, Scale, Dynamic Range and overall Gain.



Slow flow technology to visualize smaller, deeper, low-flow vessels





Intelligent smart filter

- Filter computed from data
- Detect all levels of decorrelation from flow by identifying the best filter bases

Temporal flash suppression

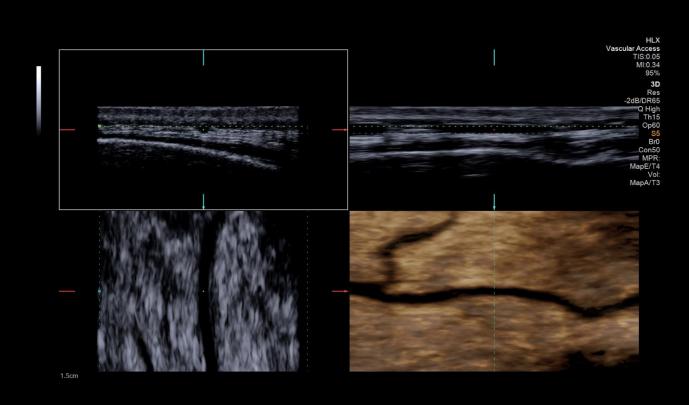
 Adaptively suppress flash while keeping low flow signal

Slow flow demonstrates

- More vessel branches than conventional doppler
- Smaller vessels than conventional color doppler
- Vessels further into tissue than conventional color Doppler

Benefits of HLX and vascular





Optimized for superficial vascular applications

- Our highest frequency linear transducer
- Superior near field imaging of superficial vessels (radial, temporal)
- Slow Flow technology to visualize smaller, slower flow vessels
- Freehand 3D compatible to see vessel branches you cannot see in 2D

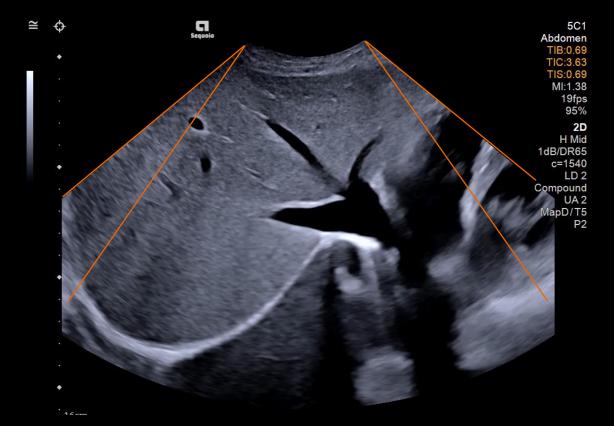
Designed to help reduce strain & pain

- Small footprint for tight access
- Ergonomic grip and narrow shape for constant light pressure
- Complements the vascular portfolio with the 15L4, 14L5 and 10L4 probes

Improve visualization and ability to measure structures that extend beyond the field of view with Wide FOV



Wide FOV





Simple Touch Screen control to extend beyond the traditional FOV

Reduce time and effort compared to Panoramic Imaging





Expanded Insights

Expand your expertise with advanced tools and Al innovations designed to improve diagnostic confidence and patient outcomes.



Boost your clinical confidence with a system designed to enhance your expertise





Quantitative Ultrasound Multi-planar Imaging

Al Cardiology



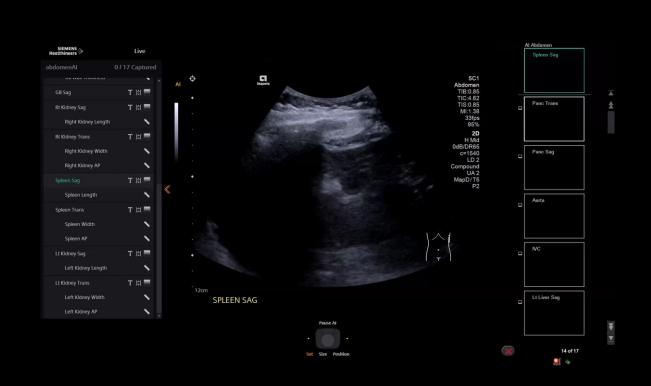






Al Abdomen





Empower faster, smarter abdominal exams

- Automatically recognizes and labels 17 anatomical views and calculates 12 key measurements in milliseconds
- Improves exam throughput and workflow efficiency
- Driven by a proprietary AI algorithm available exclusively on ACUSON Sequoia

Standardize imaging across users

- Semi-automated measurements standardize imaging across users
- Automatic reordering of protocol scans and alerts for missed views

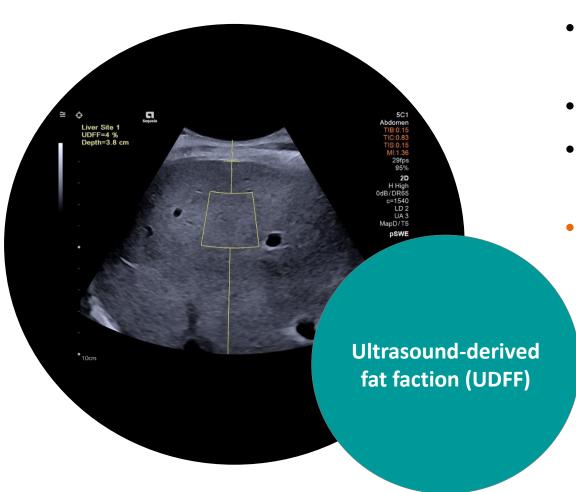
Reduce user strain & pain

- Reduces hand motion by 47% and keystrokes by 55% compared to the manual labeling and measurements of a routine complete abdomen exam*
- Mitigates fatigue and injury that result in pain for 90% of ultrasound users¹
 Unrestricted © Siemens Healthineers, 2025

¹ Evans K, Roll S, Baker J. Work-Related Musculoskeletal Disorders (WRMSD) Among Registered Diagnostic Medical Sonographers and Vascular Technologists
*Data on file

Ultrasound-derived fat fraction (UDFF)





- UDFF incorporates both attenuation & backscatter coefficients to measure fat content
- UDFF shows good agreement with MRI-PDFF
- UDFF helps manage patients with hepatic steatosis
- % fat value is easy to interpret for clinicians & patients



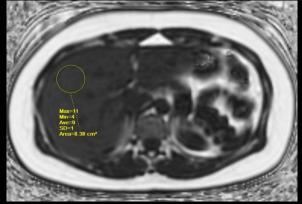
Ultrasound-derived fat fraction (UDFF) A new benchmark for quantifying hepatic steatosis

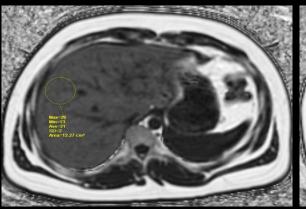


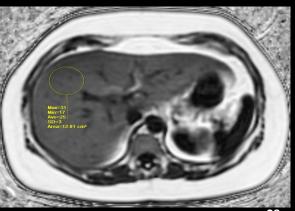






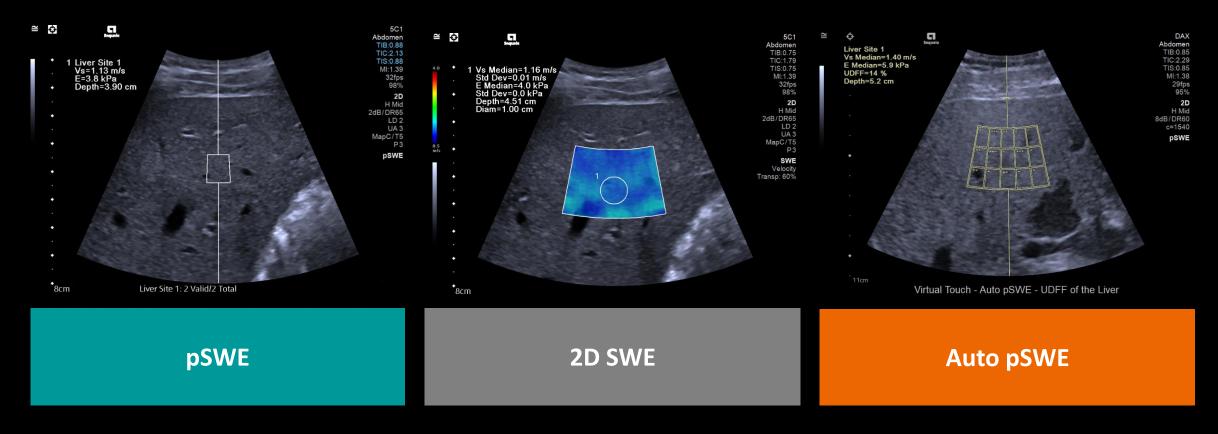






Liver elastography is a proven tool in ultrasound tissue evaluation





Reduce

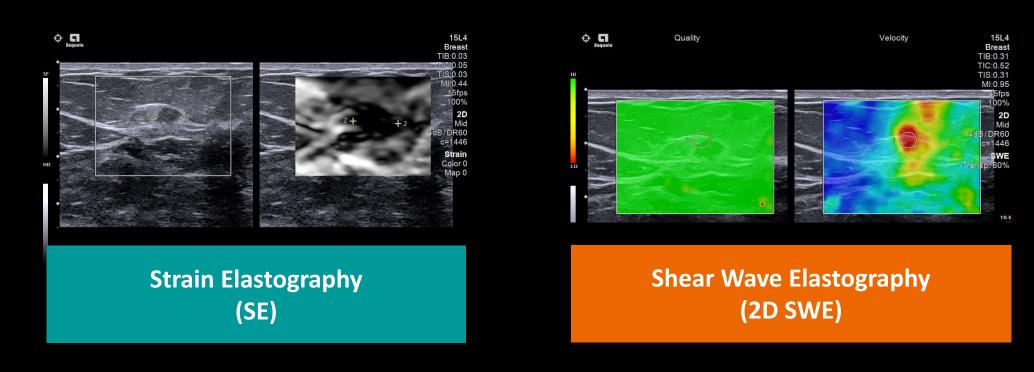
Unnecessary biopsies

Monitor

Disease progression

Ultrasound elastography (UE) for breast lesion characterization has been utilized for over 20 years

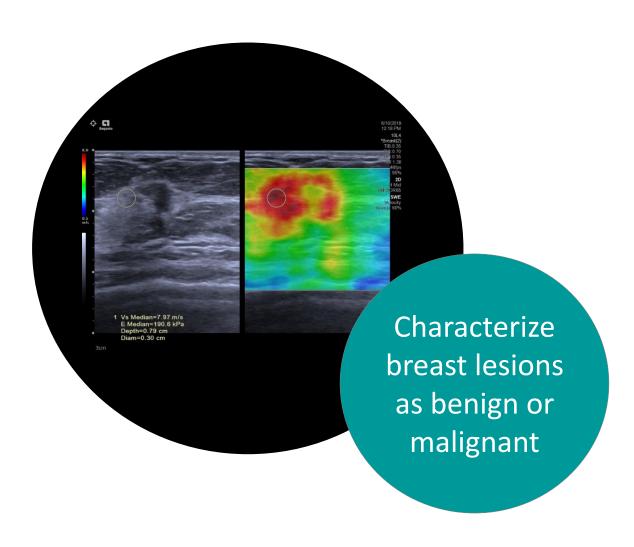




Aid in the Characterization of Breast lesions

Next Generation Breast 2D SWE Overcoming the industry challenge of dense breast on 2D SWE





Recent study states¹:

Substantially eliminates the false negative cases on SWE

Cut-off value of >5.0 m/s - malignancy

Many BI-RADS 4A – 4C lesions could be downgraded to BI-RADS 3 lesions

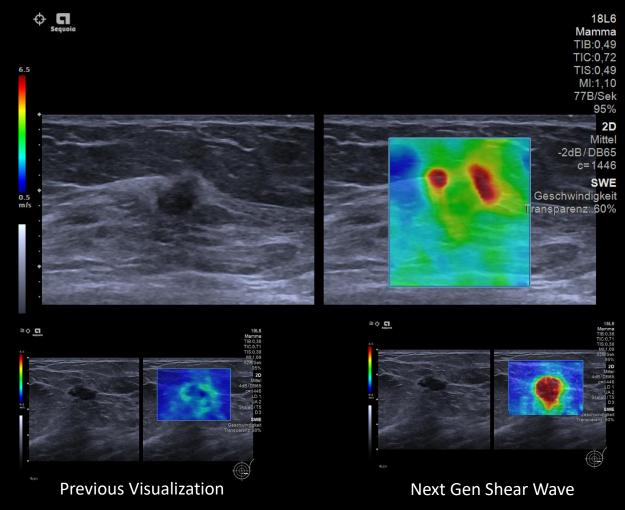
Could markedly decrease the number of benign biopsies

Next-generation 2D SWE, expanded insights features, and technologies designed to aid clinical confidence



Improved SWE linear lesion visualization which helps to reduce variability of patients with dense breasts

- Non-invasive assessment
- Unique quality map ensures data integrity
- Uniform shear wave velocity estimate throughout lesion
- Quantitative data adds more confidence when making interventional decisions



BiPlane Imaging with the 5Z1 Matrix Array & Z6T Volume TEE transducers

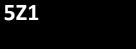


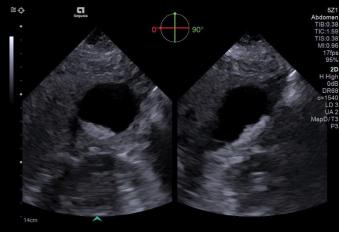
5Z1 Matrix: Versatility for GI, GYN, and Cardiology

- Small, lightweight transducer optimized for adult and pediatric imaging for Abdomen, Gynecology and Cardiology exams
- 2D BiPlane+, 2D BiPlane Color, 4D Volume, and 4D Color imaging

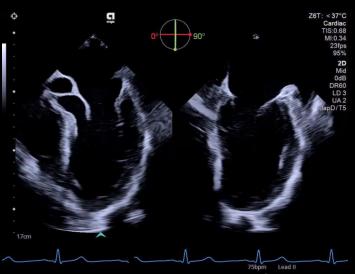
Z6T TEE: Expand your Cardiology capabilities

- Support pre-op imaging and interventional guidance for left atrial appendage closure and mitral valve repair procedures
- Single crystal matrix array
- 2D, 4D, BiPlane+, B-mode, color flow Doppler, M-mode, pulsed and continuous wave spectral Doppler



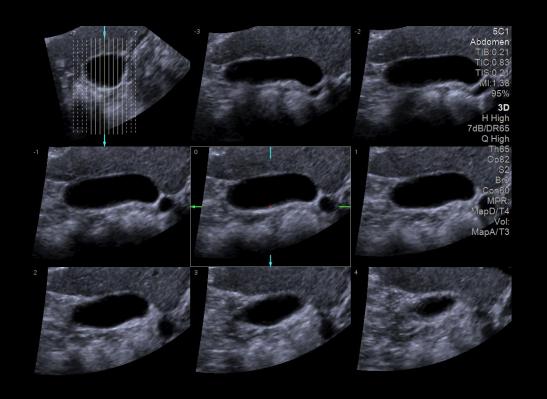


Z6T



Freehand 3D imaging processing





Efficient volume rendering with standard transducers

- No need to stop the exam to change to a specialized probe
- Saves costs of purchasing mechanical or matrix transducers
- Available on curved, linear, and endocavity transducers

Seamless workflow with volume manipulation tools

- Rocked and linear acquisitions
- Compatible with FlexPlane manipulation and reconstruction tool
- Compatible with LightSource tints





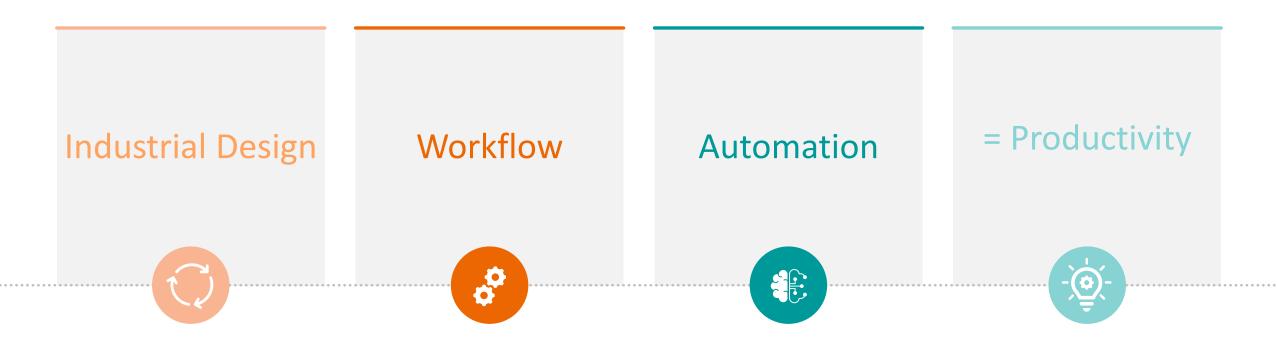
User-Driven Design

Embrace advanced productivity with AI-powered tools and an intuitive design for the ultimate user experience.



Boost your clinical confidence with a system designed to enhance your expertise





Our focus on AI in ultrasound is rooted in addressing our customers' pain points



Customers are facing increasing shortage of trained workforce

Improving workflow, automation and quantitative measurements to leverage a broader workforce and lower dependency on declining sonographer base.

90% of ultrasound users are scanning in pain¹

Embracing automation and Artificial Intelligence to help reduce exam time while improving ergonomics and diagnostic confidence.

Standardization is key to drive better outcomes, consistently

Implementing procedure specific protocols and out-of-the-box advanced quantification enables standardization; simplified software maintenance allows for better fleet management.

Reducing variability and operator burden



170
workshop sessions
with 365
ultrasound users¹



Designed with:



1-Click registration



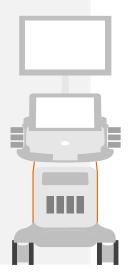
Gesture detecting transducers



UltraArt Universal image processing

Resulting in:

- Reduced variability between users
- Reduced scan time
- Automated protocols
- Reduced Repetitive Strain Injuries (RSI)



Workflow standardization



Practical automation to improve

exam consistency



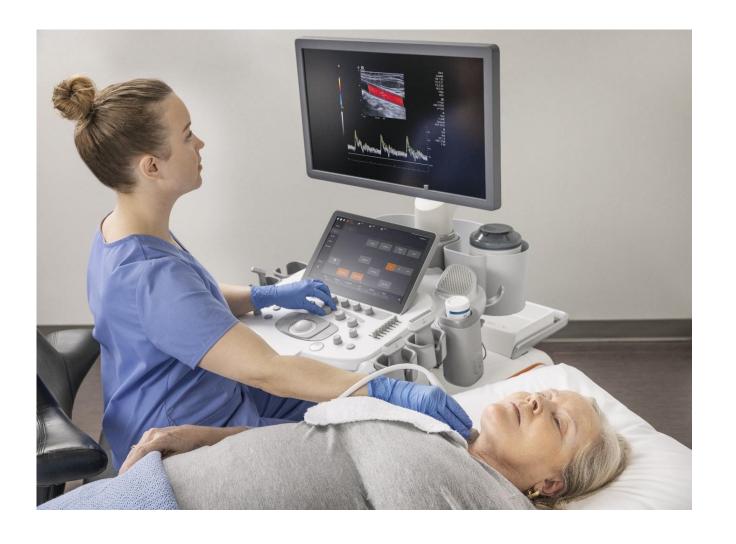
Up to 40% reduced scan times*

Standardize exams across users

Dedicated **protocol controls**

Advanced **skip options**

Export **order management**



Virtual Workstation Uninterrupted workflow, greater efficiency across departments



Establish connection to a remote computer or server to access remote applications directly from the ultrasound system.

- Modality Worklist (MWL)
- PACS
- EMR



Improve post-exam workflow efficiency

Access PACS straightaway following an exam, upload and verify all necessary images are stored correctly.



All the data in one place for full transparency

Review patient history and access past exams¹ uploaded to EMR to deliver the most accurate diagnosis and quality patient care.



Mitigate errors and raise patient experience

Review patient schedules and download and manage patient demographic data; know what exam is needed for the patients' visit.



Ergonomic design enables the highest level of ultrasound imaging anywhere in your institution





24" (60.9cm) Barco monitor

Medical imaging display brings image consistency from the exam room to reading room

Large intuitive touch display

13.3" (33.7cm) high-definition touch display with variable tilt angle from 30 to 60 degrees

Integrated gel warmer

An integrated gel warmer which can be placed on either side of the system

Multiple storage areas

Integrated storage bins with large container for easy storing of accessories

Floating control panel

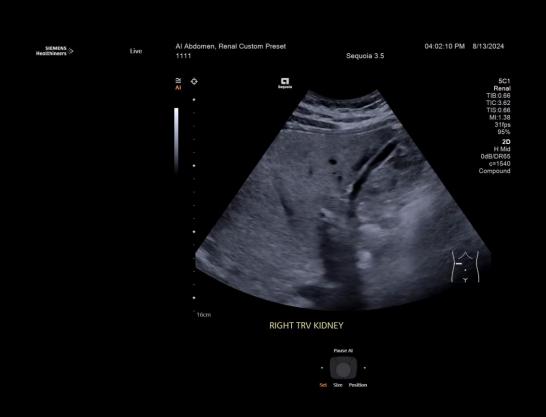
System adapts to the user to maximize ergonomic scanning and user comfort

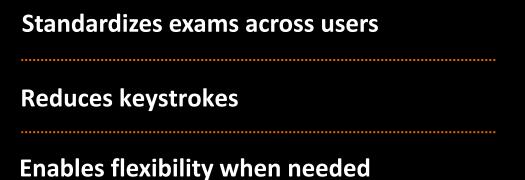
Central locking & steer pedals

Allows simple access to steering and breaks for an optimal transport experience

Boost productivity with user-driven design and workflow protocols

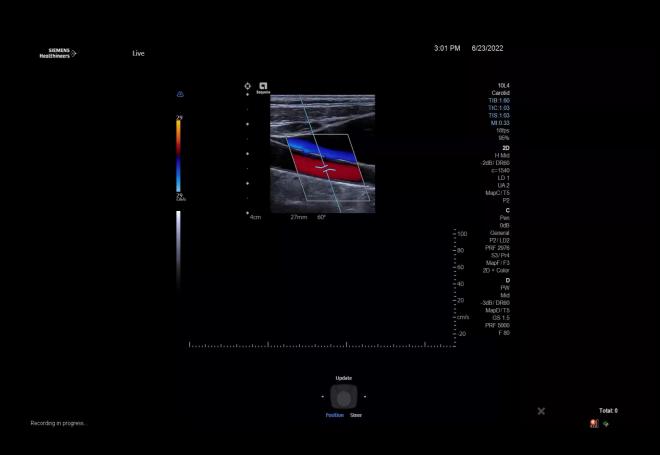






Boost productivity with Auto Doppler User-driven design automated features





Auto Doppler can reduce exam keystrokes by >25%*

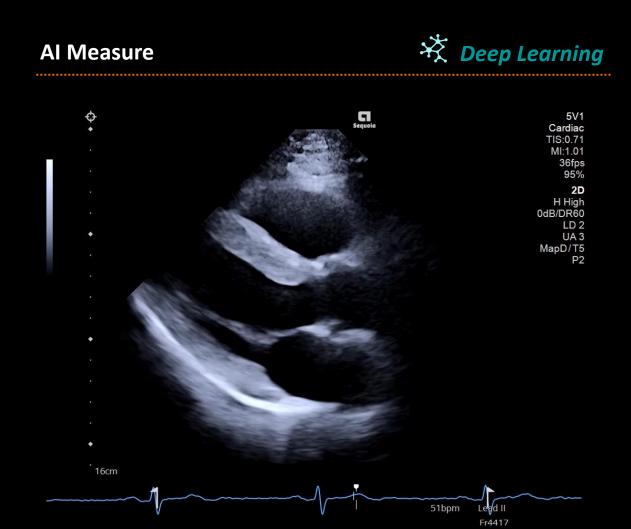
Further expansion of automated features

Reduced operator variability

Auto Doppler can improve scan times compared to conventional workflows

Al-powered measurements alleviate tedious, time-consuming and variable routine Echo calculations





Semi-automated measurements for Routine Echo exams for 2D, M-Mode, and PW measurements

Improve the patient and user experience by reducing routine echo exam time

Reduce user variability to improve diagnostic confidence on follow-up exams

120

Offers 120 Al calculations





Customer Service

When lives depend on the right diagnosis, you need the confidence that you can deliver. That calls for a trusted partner to help ensure systems are performing properly, staff are trained and processes optimized.









Expert support for seamless workflows, enhanced imaging and confident diagnosis





OEM quality partsOnly Siemens parts, so image quality is never compromised



Global footprintContinuous high-quality support



Streamlined logisticsWorldwide network to support rapid parts delivery



Software upgradesProtect your investment with TechUp programs



Kinectus™ Remote Services
Minimize downtime and
enhance reliability



Up-to-date technical expertiseService by the people who designed, built, and know your system best



Flexible contracts
Customizable contracts to
fit your unique needs*

Ensuring confidence in care throughout your ultrasound lifecycle





Pre-installation

Point of sale Service Contracts



Equipment installation

Remote connection Hand-over training











Continuous care and evolution during equipment lifecycle

Remote technical support

Remote application support

Planned maintenance (PM)

Reactive maintenance (RM)

Parts & transducer coverage

Remote update handling (RUH)

On-site software installation

TechUp 18
Techup NOW
Software updates

Online tutorials
Classroom courses

Reliable system performance, flexibility to fit your needs

SIEMENS ... Healthineers

Full Service



Complete coverage to maximize your system's uptime

Our full-service solution provides you the peace of mind, with reliable expert support, ensuring your systems are running at peak performance.



Flexible service

Choices that fit your budget

Our flexible service offers you options that fit your service needs and budget, while still providing expert support.

All plans supported by Kinectus Remote Service where available



Shared service

Collaboration that helps expand your team

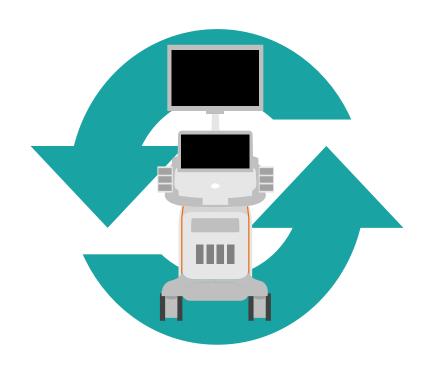
Our partnership empowers your in-house biomedical engineers with training, parts coverage, and labor support, giving you control while ensuring success with our expert backing.



TechUp 18 service contract option protects your investment



Our new software upgrade program designed to help keep your systems up to date



Enhance your Siemens Healthineers ultrasound system investment Multiple software upgrades during the life of your ACUSON service contract*

Keep your team up-to-date

New software release at least once every 18 months when available

Optimize your daily operational efficiency

0

Access to the latest enhancements of existing features to help improve your workflow and productivity

^{*}Depending on the duration of your service contract

Kinectus Remote Service



Always connected. Always advancing. Always ahead.



SECURE CONNECTIVITY



Reduce the risk of unauthorized access with built-in security features*

Connect with just a single outbound port

*Single Sign-on (SSO), Multi-factor Authentication (MFA), and device whitelisting

Access real-time technical and applications support without delay

Minimize downtime and enhance reliability with remote diagnosis and repair

Protect your system from cyber threats with remote updates

SUSTAINABLE SOLUTION



Lower carbon footprint Reduce need for onsite support

Reduce transportation and travel need

Reduce e-waste

No additional equipment required to connect

Kinectus

Remote technical support





Remote error identification, diagnosis and repair using advanced software troubleshooting tools



Immediate access to technical support Our experts can quickly clarify system questions



Error diagnosis
Our advanced tools
help resolve issues
with fewer
onsite visits



Error repair
We can quickly
correct errors and
restore operations



Minimize impact of a failure in your daily routine

Optimize uptime while waiting for onsite support

Enhance equipment stability and reliability

Kinectus

Remote applications support



Real-time interaction between clinical staff and clinical application experts, whenever support is needed





Real-time image quality troubleshooting for increased clinical confidence



Expert guidance for optimizing scan protocols and other customized needs to keep up to date with advances in clinical procedures



Workflow enhancements and support with step-by-step guidance through clinical applications



Get immediate, secure access to clinical application experts

Maximize the full potential of your clinical applications

Optimize your daily operational efficiency





Al Leadership

With innovative solutions, we directly address your challenges using practical AI that enhances the quality of care by reducing variability among patients, users, and systems.



Our 4 strategic priorities in ultrasound







We are pioneering breakthroughs in healthcare to everyone, everywhere, sustainably.



Networked care and digitally enabled services

Ultrasound is pushing outside of the hospital walls, with AI tools and platforms (e.g., Kinectus) are designed to make ultrasound exams easier and faster with a confident diagnosis.



Cardiovascular and neurovascular care

We have a legacy of cardiovascular ultrasound leadership, and our new ACUSON Origin reinforces our place atop the industry



Comprehensive cancer care

We are helping customers take on the challenges of two of the most challenging cancers:
breast and liver cancer pathways and leveraging ultrasound technology to monitor the effects of chemotherapy.

Leading the way in Al





Al that leads change

We are focused on delivering faster, easier exams that deliver important clinical insights or enable decision making



It's Personal

The premise of our AI strategy is to give humans more time to connect, excel, and thrive



Al that helps lift the load

Our AI solutions reduce manual movements, speed up the right insights to expedite care, and personalize care



Practical AI

Our intellectual property in Al drives real-world results



Supercomputing our way into the lead

No other manufacturer has the investment, talent or resources we've committed to Al

A pioneer in diagnostic artificial intelligence



We are the global leader in AI patent applications in medical imaging

We've been a pioneer in AI development for more than 20 years

More than 650

patent families related to machine learning

Of which,
more than 250
are rooted in deep learning



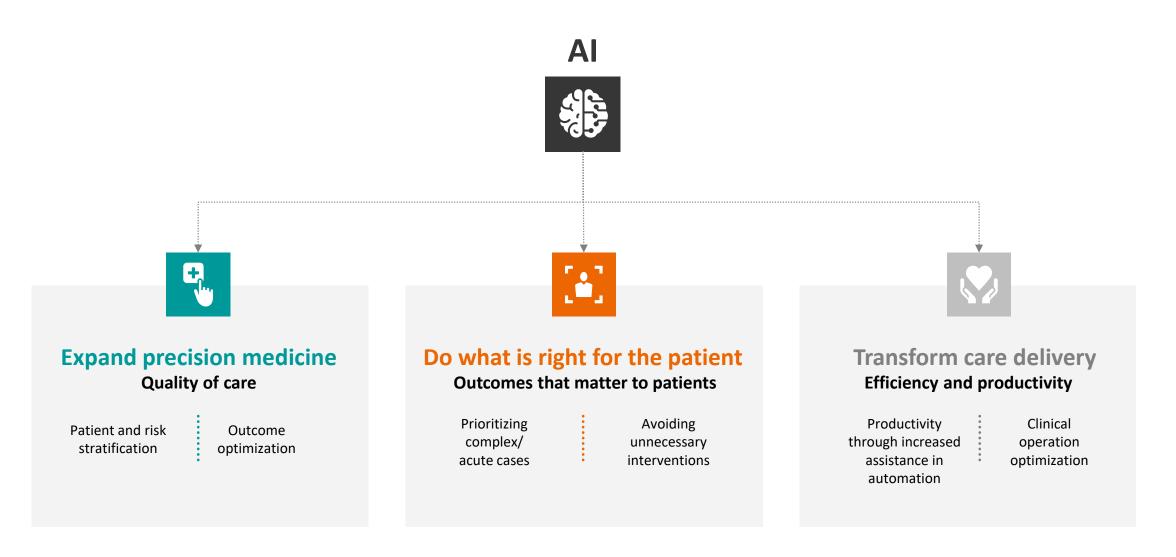
We are shaping the future of digital health with Al-powered solutions

We will improve clinical decision-making by increasing the number of Al-supported product offerings significantly over the next 5-7 years



Al drives healthcare digitalization





We develop AI applications to improve efficiency and productivity, optimize workflow, and enhance clinical insights



Efficiency and Productivity

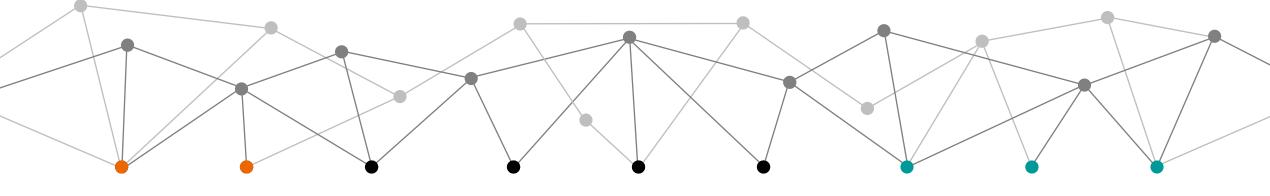
Simplify tasks, increase patient throughput

Workflow

Optimize and automate the exam

Clinical Insights

Streamline and support decision-making





Patient History and Protocol Selection



Service Efficiency



Image



Optimization



View Identification



Measurement Support



Ergonomic **Improvement**



Detect/Score **Findings**



Procedure **Planning**



Virtual Second Opinion

Al Technologies onboard ACUSON Sequoia 5600+ Al-powered measurements



Improve diagnostic confidence and reduce time to treatment by decreasing task complexity, standardizing exam quality, and resolving resource shortages through implementation of practical artificial intelligence solutions.



Al Abdomen

Real-time view labeling & measurements

TraceAl

Volume rendered measurements

Al Assist

Real-time view classification

4D Heart^{AI}

Strain, ejection fractions, & volumes

2D Heart^{AI}

Strain, Ejection Fraction

Al Measure

Automated Routine Echo, B-mode, M-mode, PW

Auto Calcs

Comprehensive measurements of complex masses

Auto OB

Fetal Biometry, EFW

Key drivers for an abdominal exam





Abdominal Pain¹

Evaluation of unexplained abdominal pain to assess for organ pathology



Billary Disorder¹

Detection of gallstones (cholelithiasis) and inflammation of the gallbladder (cholecystitis)



Pancreatic Pathology¹

Detection of pancreatitis, pancreatic masses, or cysts



Kidney Disorders¹

Evaluation of kidney stones, cysts, tumors, and hydronephrosis



Liver Disease²

Assessment of fatty liver, cirrhosis, hepatitis, and liver masses



40–509 Primary Care Physicians

20–25% Emergency Medicine

10–15% Gastroenterologists

5-10% General & Vascular Surgeons

5% Urologists 5% OB/GYN

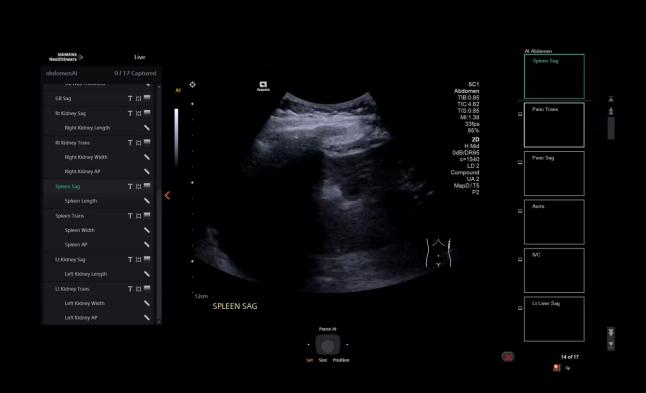
Estimate of % of clinicians who request abdominal exam²

¹ Abdominal Pain evaluation of unexplained abdominal pain to assess for organ pathology

² Data on file

Al Abdomen





¹ Evans K, Roll S, Baker J. Work-Related Musculoskeletal Disorders (WRMSD) Among Registered Diagnostic Medical Sonographers and Vascular Technologists

Empower faster, smarter abdominal exams

- Automatically recognizes and labels 17 anatomical views and calculates 12 key measurements in milliseconds
- Improves exam throughput and workflow efficiency
- Driven by a proprietary AI algorithm available exclusively on ACUSON Sequoia

Standardize imaging across users

- Automated measurements standardize imaging across users
- Automatic reordering of protocol scans and alerts for missed views

Reduce user strain & pain

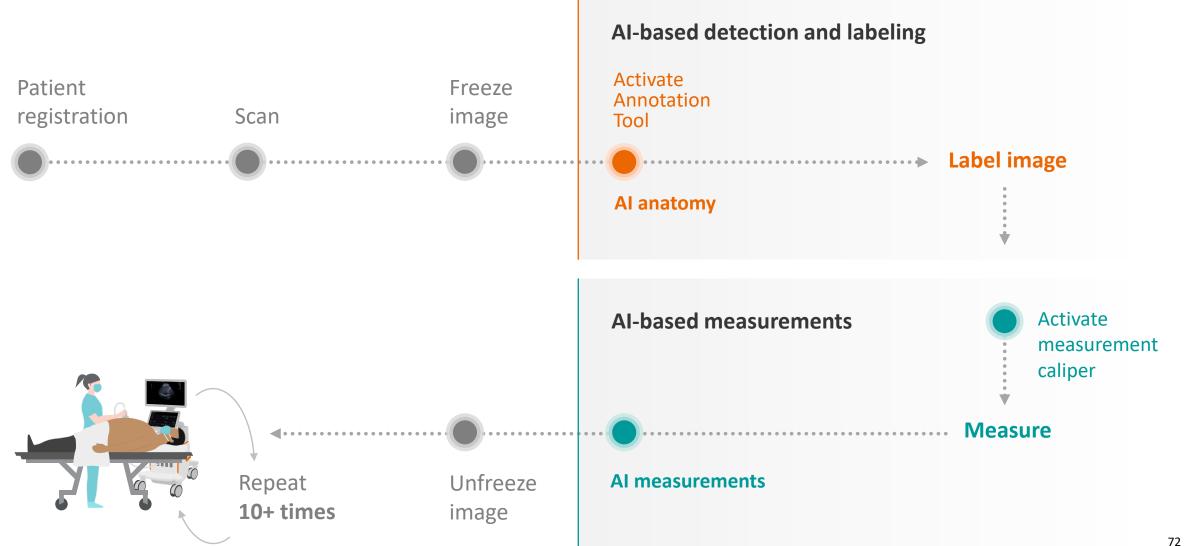
- Reduces hand motion by 47% and keystrokes by 55% compared to the manual labeling and measurements of a routine complete abdomen exam
- Mitigates fatigue and injury that result in pain for 90% of ultrasound users¹

Al Abdomen



Automating abdominal ultrasound workflow with Al





Sonographer ergonomic stress



The reduction in hand movement is visible when compared with other methods



Al Abdomen





Protocol



Manual

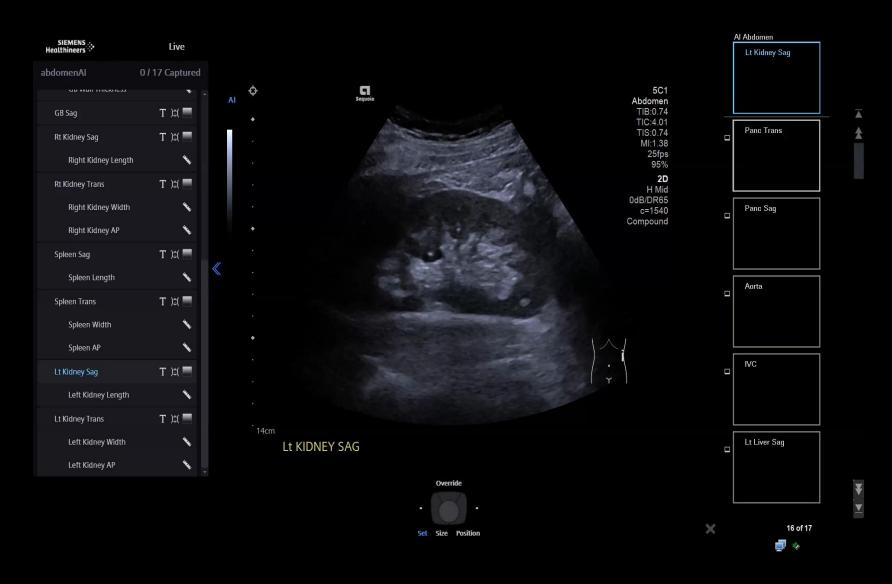


Reduced hand motion

24% vs manual

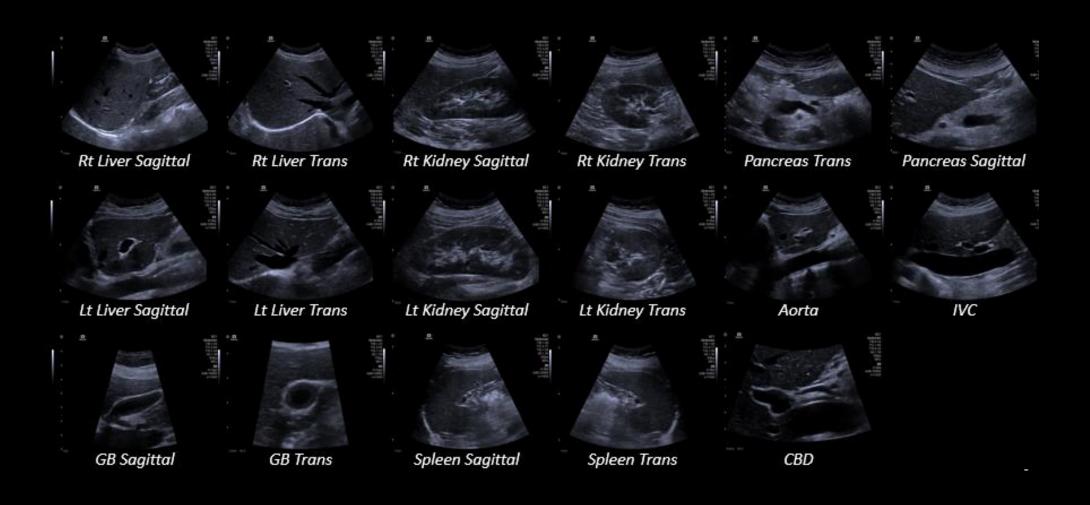
Al Abdomen workflow in action





Al Abdomen 17 Essential views for complete exams





Al Abdomen

SIEMENS :•• Healthineers

12 Key measurements for complete exams



Lifestyle choices impact cardiovascular diseases



Cardiovascular diseases (CVDs)

of death globally.1



An estimated

17.9 million

people died from CVDs in 2019, representing 32% of all global deaths. Of these deaths, 85% were due to heart attack and stroke.²



Out of the **17 million**premature deaths

(under the age of 70)

due to noncommunicable diseases in 2019,

38% were caused by CVDs³



Over three quarters of CVD deaths

take place in low-and middle-income countries.⁴



Most cardiovascular diseases can be prevented

by addressing behavioral risk factors such as tobacco use, unhealthy diet and obesity, physical inactivity and harmful use of alcohol.

ACUSON Sequoia delivers a comprehensive package of Al-powered cardiology features to improve workflow





AI Assist

Automatic identification and classification of cardiac structures



2D Heart^{AI}

Al-powered quantification for Cardiac Strain analysis



4D Heart^{AI}

Metrics across all four heart chambers – strain, global longitudinal strain (GLS), ejection fractions, and volumes



Trace^{AI}

Measurement tool for Volume rendered images for cardiac and structural heart imaging



♥U

Stress Echo

Comprehensive and intuitive heart wall motion scoring software



Al Measure

Semi-automated measurements for Routine Echo exams



Z6T 4D TEE Transducer

Supports pre-op imaging and interventional guidance with volume transesophageal echo



5Z1 Transducer

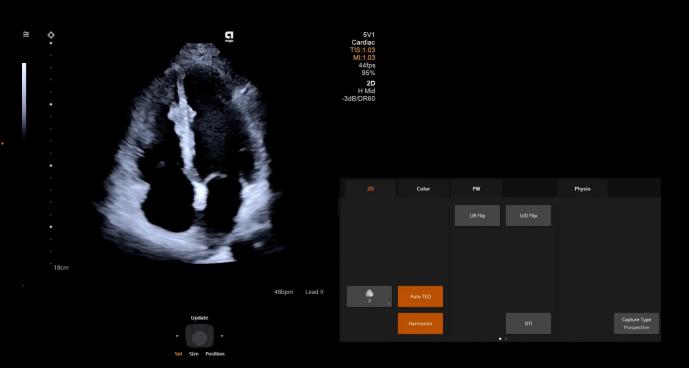
Matrix 4D and BiPlane optimized for Cardiac, Abdomen and Gyn

AI Assist

- Al Assist has real-time Al view recognition
- Al view classification streamlines the imaging process

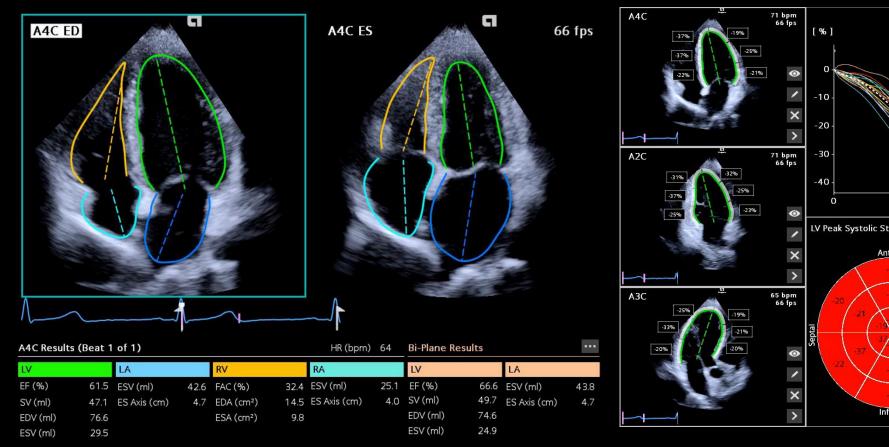
Enhanced efficiency

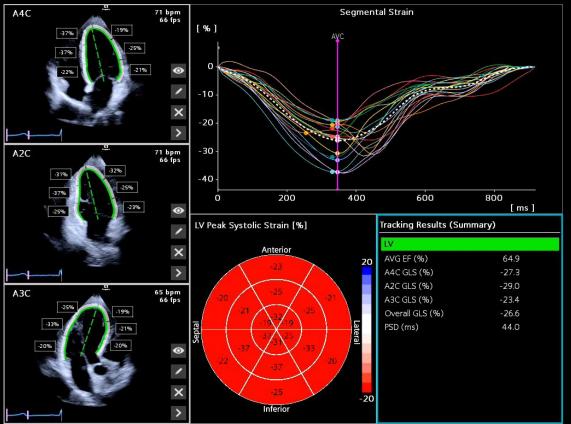
- Flexibility to override auto placement and easily switch between auto and manual
- Semi-automated placement of color
 Doppler ROI and spectral Doppler sample
- Available on cardiac TTE transducers for complete routine echocardiogram



2D Heart^{AI} strain analysis Ease of use, reproducibility, and standardization







Four-Chamber Biplane Assessment

GLS and Segmental Analysis

2D Heart^{AI}

Strain with contrast



Swift and precise cardiac assessments

- Al-powered quantification for Ejection Fraction and Strain
- Comprehensive measurements across all 4 heart chambers in seconds
- Improves speed and precision over manual tracing
- Auto view detection and contour placement
- Provides immediate insights for informed decisionmaking

Industry



Strain analysis with or without ECG for rapid assessment

Industry



Strain analysis with or without Contrast to expand assessment to technically difficult exams

Al-powered quantification for ejection fraction and strain Improved speed and precision over manual tracing

2D Heart^{AI}





Auto view detection and contour placement

Easy editing and ability to change ED/ES and AVC timings

Industry



Strain analysis with or without ECG for rapid assessment

Industry



Strain analysis with or without Contrast to expand assessment to technically difficult exams

2D Heart^{AI}

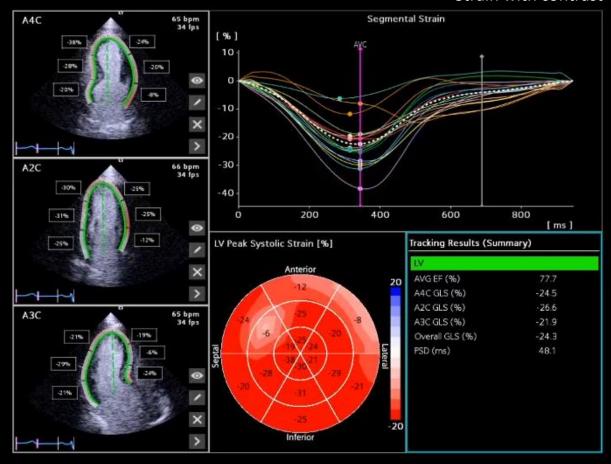
Contrast Quantification

First AI based auto LV tracking with LVO

Industry



Strain with contrast



4D Heart^{Al}

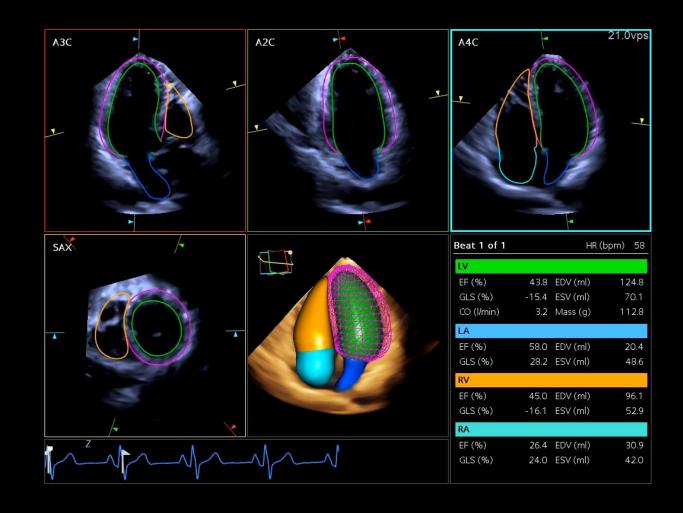


One-click cardiac assessment

- Utilizes proprietary AI to process complex cardiac data instantaneously, in seconds
- Measures essential cardiac metrics across all 4 heart: strain, global longitudinal strain (GLS), ejection fractions, and volumes

Instant insights, real-time results

- Real-time quantification ensures timely and accurate decision-making
- 4D analysis
- Imaging capabilities across both TTE and TEE modalities for versatile usage and expanded clinical applications





Quick, semi-automated calculations

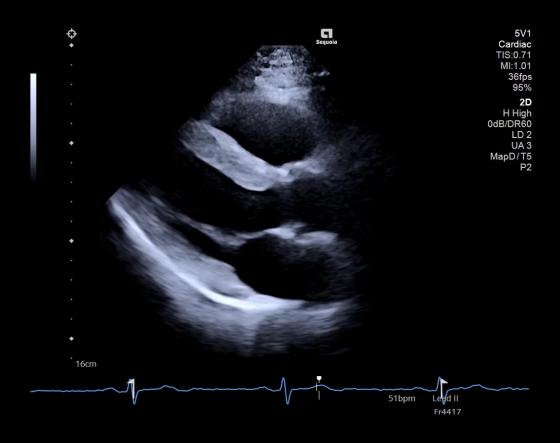
- Al-powered measurement tool for volume rendered images for cardiac and structural heart imaging
- Detects the borders of an orifice to quickly measure the anatomical structures on 2D MPRs

'Snap to' workflow

- Snaps to ovoid structures to automatically measure minimum/maximum diameter, circumference, and area
- See the measurement graphics rendered in the VR image



Al Measure



Alleviate time consuming calculations

- Al-powered measurements alleviate tedious, time consuming and variable Routine Echo calculations
- Semi-automated measurements for 2D, M-Mode, and PW measurements

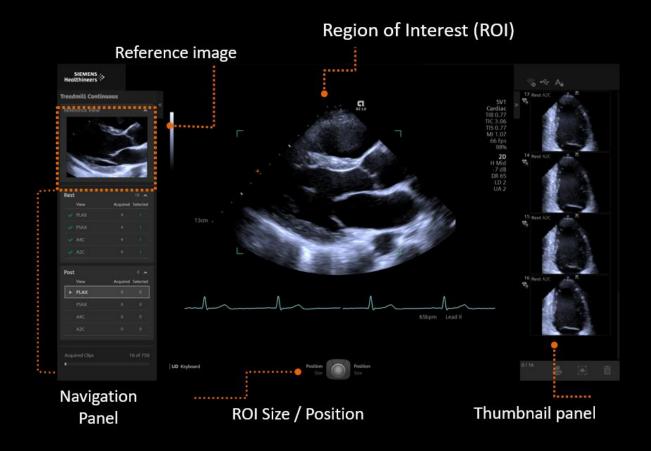
Standardize exams across users

- Reduces variability and standardizes across users to improve diagnostic confidence on follow-up exams
- Improves the patient and user experience by reducing routine echo exam time

120

Offers 120 Al calculations

Stress Echo



Deeper cardiac assessments

- Provides tools for ECG-triggered acquisition, display, selection, comparison, evaluation, and archiving of multiple cardiac loops during various stages of a Stress Echo examination
- Comprehensive heart wall motion scoring evaluates cardiac function at levels of stress
- A deeper cardiac assessment supporting presurgical workups

Simple and intuitive workflow

7

User-definable default protocols

Support pre-op imaging and interventional guidance with 4D TEE

Z6T Volume TEE Transducer

Expand Cardiology capabilities with high volume rates with high resolution for valvular analysis

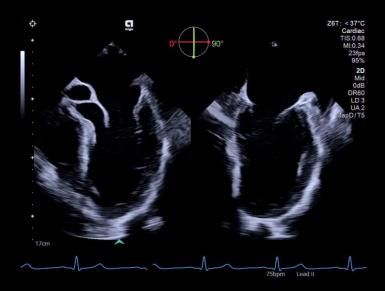
Support pre-op imaging and interventional guidance for left atrial appendage closure and mitral valve repair procedures

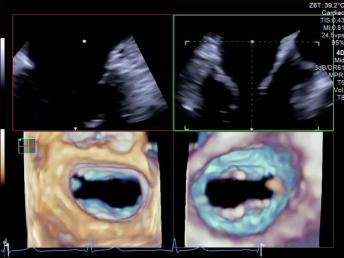
- Single crystal matrix array
- 2D, 4D, BiPlane+, B-mode, color flow Doppler, M-mode, pulsed and continuous wave spectral Doppler





Bi-Plane





Real-time 4D

5Z1 Matrix Array transducer



5Z1 Transducer – Cardiac Imaging



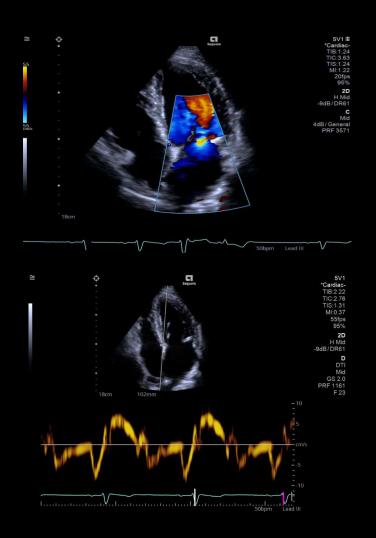
Matrix Array transducer for Adult and Pediatric cardiac imaging with active electronics for instantaneous full volume transthoracic echo

- Ergonomic design with a small footprint supports challenging patient windows
- 2D BiPlane+, 2D BiPlane Color,
 4D Volume, 4D Color
- Gesture Detection Technology



Addressing variations image fully focused from near field to far field Highest resolution color flow, sensitivity and penetration









Liver disease

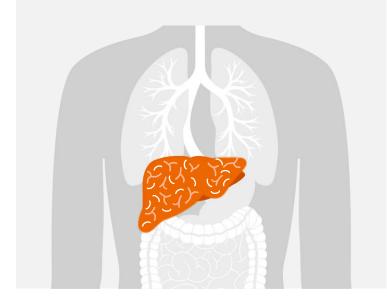
Silent Killer



MASLD

Metabolic dysfunction-associated steatotic liver disease

Formerly known as Non-Alcoholic Fatty Liver Disease (NAFLD)



30%

of the world's population is affected by MASLD¹

leading cause of years of working life lost in America and Europe²





Liver Cancer deaths per year, ~2.300 deaths per day¹



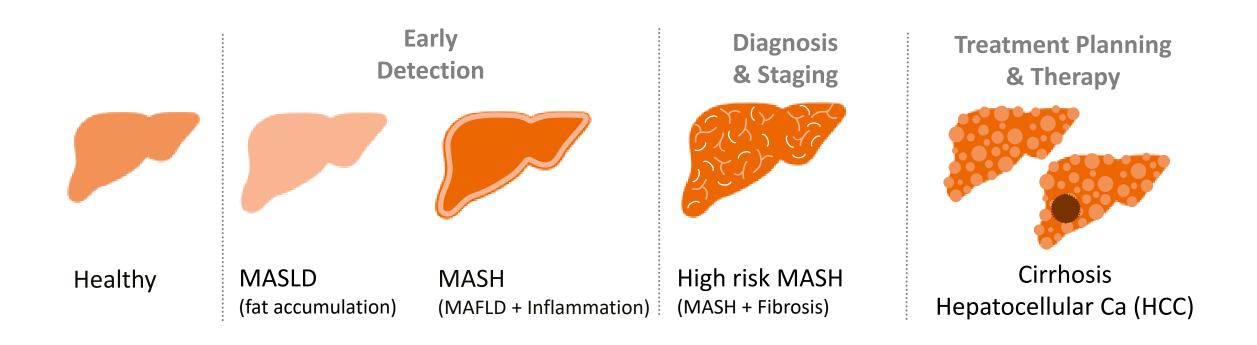
<16% survival rates

Consistently low average 5-year survival rates for last decades²

^{1.} Yip TC, Vilar-Gomez E, Petta S, Yilmaz Y, Wong GL, Adams LA, et al. Geographical similarity and differences in the burden and genetic predisposition of NAFLD. Hepatology 2023;77(4):1404–27. Doi: 10.1002/hep.32774.

Liver disease is reversible if caught early enough



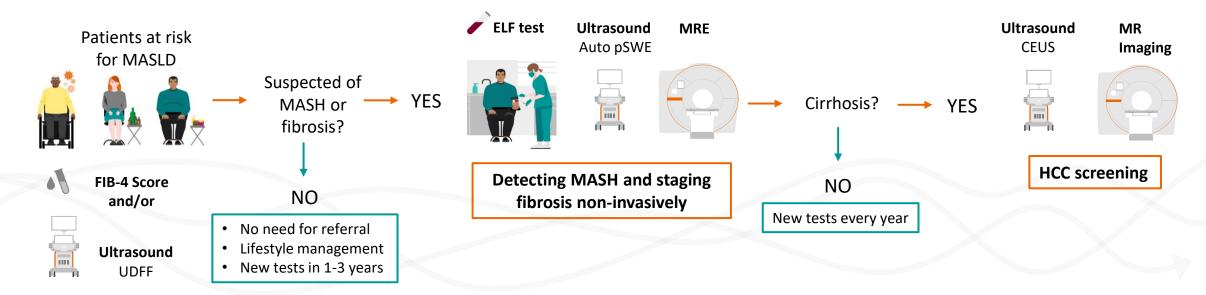


Reversible

Disease Progression

Siemens Healthineers helps to accelerate the path from risk stratification, diagnosis and survivorship





Primary Care / Endocrinology

Liver Clinic

Radiology

MRI Proton Density Fat Fraction (MRI–PDFF)



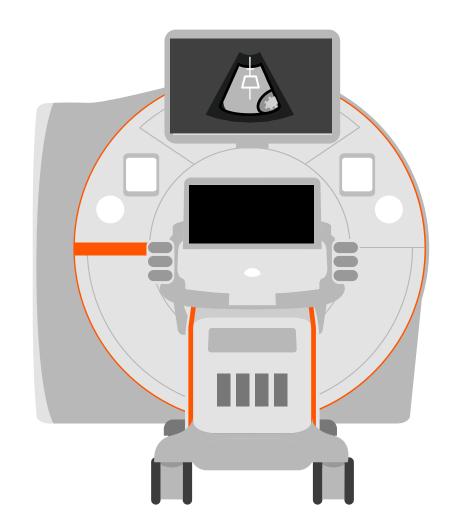
MRI-PDFF closely correlates with the histologic assessment of liver fat content, thus it is currently thought of as a "surrogate" to liver biopsy

There are, however, pitfalls:

- Expensive
- Not everyone can get access
- Time consuming
- Need for sedation in some cases

As a result, there is a need for new noninvasive, easily available/accessible, cost-effective test such as...

ultrasound-derived fat fraction (UDFF)



Ultrasound-derived fat fraction (UDFF) What is it and how do we determine it?





Ultrasound-derived fat fraction (UDFF) non-invasively quantifies fat in the liver



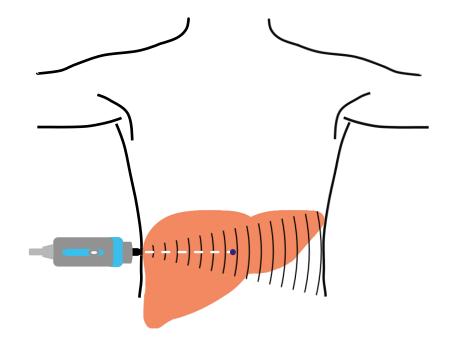
UDFF index is estimated from both attenuation coefficient (AC) and backscatter coefficient (BSC)



A proprietary algorithm maps AC and BSC to MRI-PDFF; UDFF shows good agreement with MRI-PDFF in adults and children

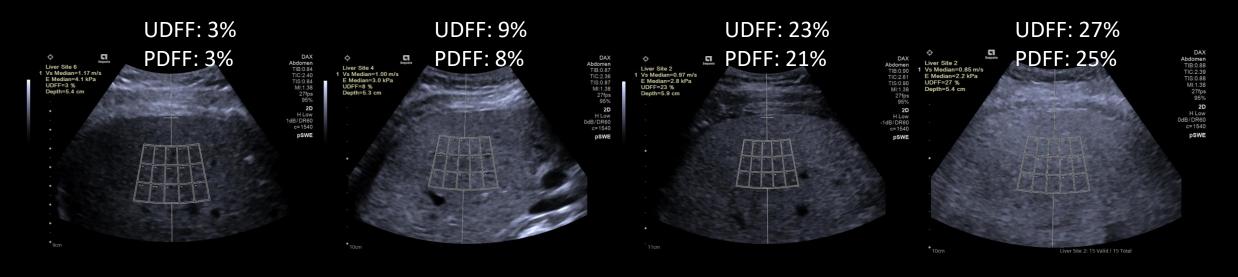


Like MRI-PDFF, UDFF is displayed in percent (%)

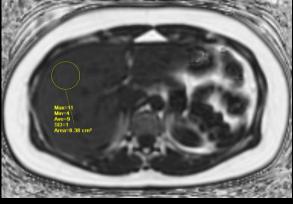


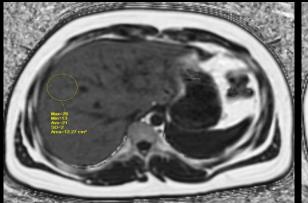
Ultrasound-derived fat fraction (UDFF) A benchmark for quantifying hepatic steatosis

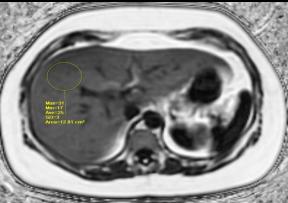






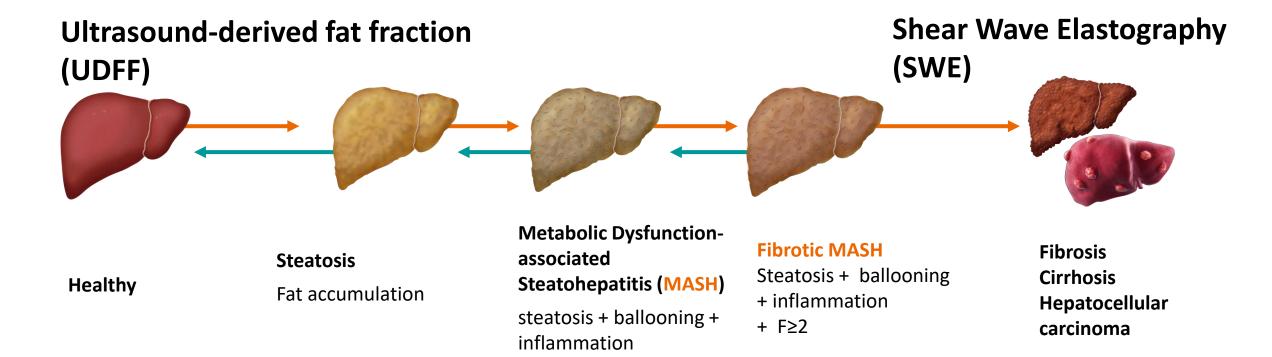






Ultrasound biomarkers



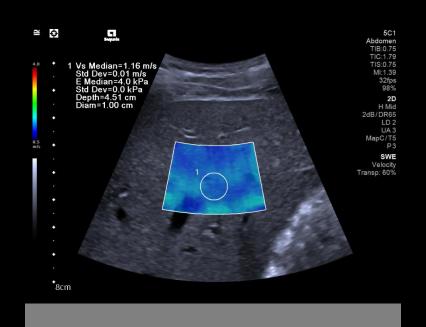


Comprehensive liver assessment

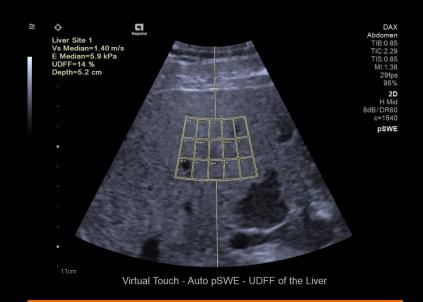
- UDFF quantifies fat content
- SWE quantifies stiffness
- CEUS for lesion characterization

Liver Elastography is a proven tool in ultrasound tissue evaluation









2D SWE

pSWE

Auto pSWE

Reduce

Unnecessary biopsies

Monitor

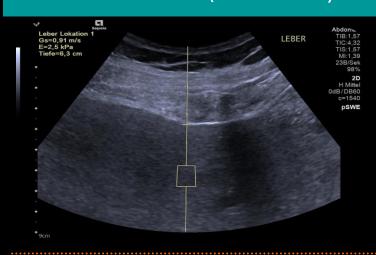
Disease progression

57-year-old female, BMI 46.5 kg/m2 Evaluation for bariatric surgery, liver steatosis on routine US



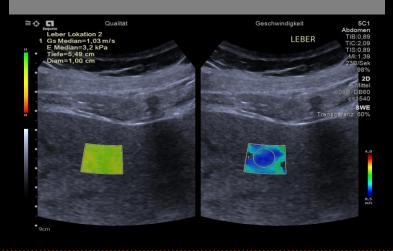
pSWE

Median: 2.6 kPa (no stiffness)



2D SWE

Median: 2.9 kPa (no stiffness)



Auto pSWE + UDFF

Median: 2.6 kPa (no stiffness)
UDFF 26% (Steatosis)



Liver Biopsy Results

- F0 (No fibrosis)
- S2 (Moderate Steatosis)

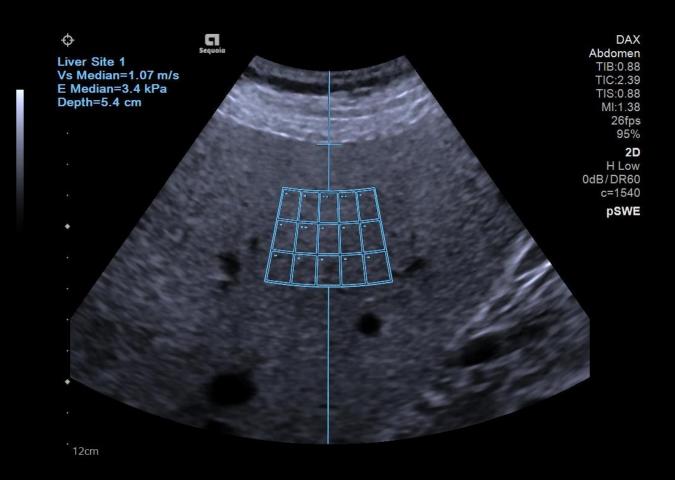
Auto pSWE + UDFF demonstrates concordance with liver biopsy and other elastography methods

Auto pSWE – Liver elastography workflow enhancement



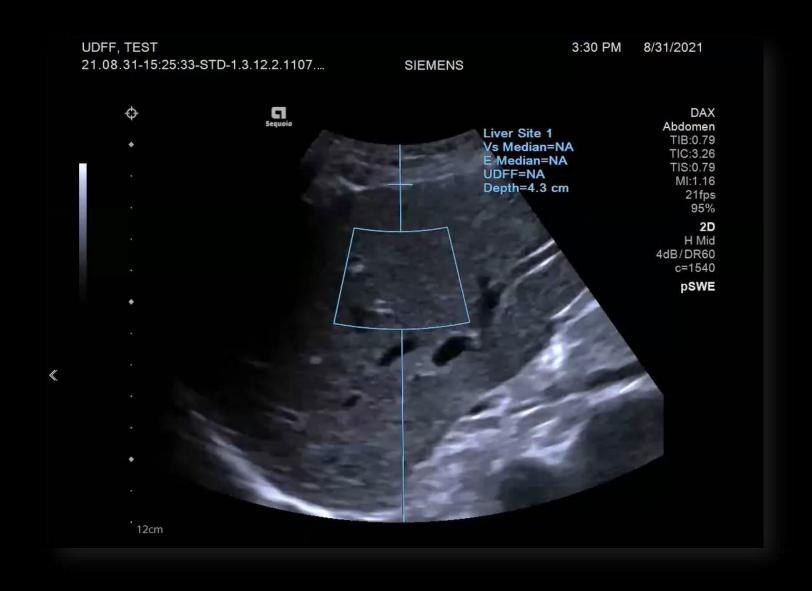
- Same physics and principals as pSWE
- Acquires up to 15 individual pSWE measurements in a single acquisition
- Automatically removes any invalid measurements
- Dots visually indicate stiffness value in each sub-ROI

# Dots	Stiffness
1	< 5 kPa
2	5-9 kPa
3	9-13 kPa
4	> 13 kPa



One touch (UDFF + pSWE)

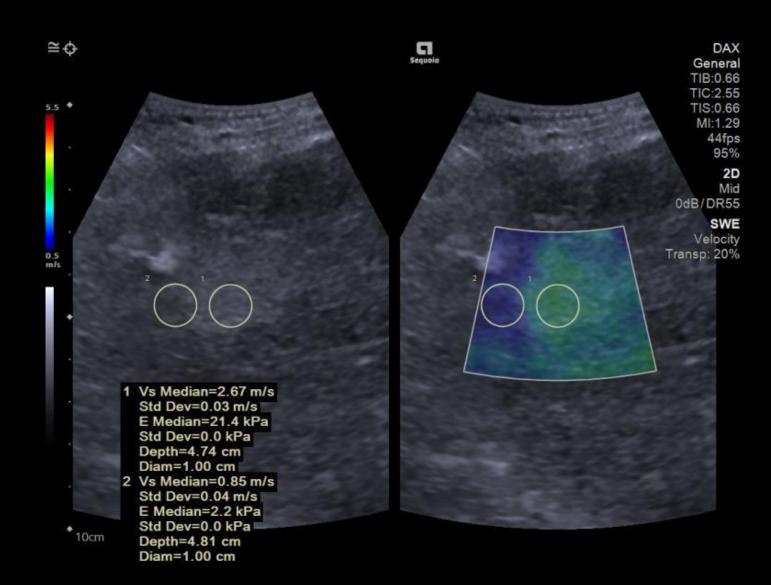




2D SWE: Assessment of focal liver lesions



- The ACUSON Sequoia system offers flexibility for user preference in liver elastography applications.
- 2D SWE can be used to assess stiffness heterogeneity in the liver, while primary liver tumors can vary in their stiffness characteristics, liver metastases are significantly stiffer.
- Studies have shown that the level of variability between consecutive acquisitions, assessed by means of IQR/Median ratio, is the most important quality criterion.



Ultrasound technologies that support liver cancer screening, diagnosis, treatment & monitoring

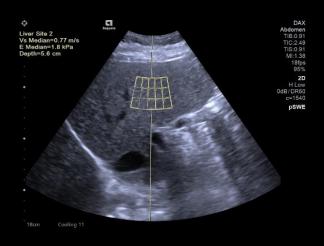




UDFF

Ultrasound-derived fat fraction

- An accessible and quantitative ultrasound index to aid in the management of patients with hepatic steatosis. UDFF shows good agreement with Magnetic Resonance Imaging Proton Density Fat Fraction (MRI-PDFF) in adults and children¹
- Cost effective alternative to MRI-PDFF
- Complimentary to liver elastography
- Available on 5C1, 9C2 & DAX transducers



Auto pSWE

Automated Point Shear Wave

- Reduce liver elastography exam time and operator variability by delivering up to 15 valid pSWE measurements in less than 5 seconds
- Automatically removes any invalid measurements
- Dots visually indicate stiffness value in each sub-ROI
- Available on 9C2 & DAX transducers

Ultrasound technologies that support liver cancer screening, diagnosis, treatment & monitoring

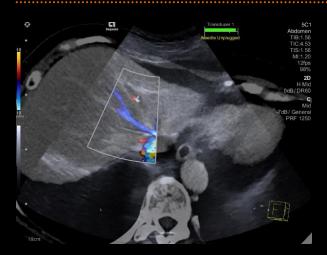




CEUS

Contrast Enhanced Ultrasound

- Contrast-enhanced ultrasound (CEUS) combines conventional ultrasound with microbubble contrast agents and specialized imaging software
- This advanced application provides blood flow and tissue perfusion information in realtime
- Perfusion characteristics (wash-in or wash-out) provide clinicians with relevant diagnostic information



Fusion

Fusion Ultrasound & Cryoablation

- Anatomic precision on CT or MRI combined with live Ultrasound
- Biopsy planning and guidance
- Ablation therapy guidance
- Serial scan comparisons
- Isoechoic lesion detectability
- Multiple lesion discrimination

Ultrasound technologies that support liver disease screening, diagnosis, treatment & monitoring





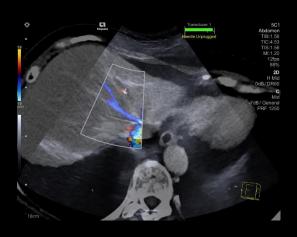
UDFF for Screening
Ultrasound-derived fat fraction



Auto pSWE for Screening
Automated Point Shear Wave



CEUS for Diagnosis
Contrast Enhanced Ultrasound



Fusion for Treatment
Fusion Ultrasound with CT or MR

Growing cancer incidence drives need for ultrasound



Breast cancer is the world's most prevalent cancer

7.8 million women

diagnosed and living with breast cancer over the past 5 years.³



Globally, breast cancer now represents

1 in 4

of all cancers in women³



Since 2008, worldwide breast cancer incidence has increased by more than





Worldwide, over

2.25 million

new breast cancer cases were diagnosed in 2020¹

In countries with advanced medical care, the 5-year survival rate of early-stage breast cancers is

80-90%



Unexpected visual clarity and confidence for breast care



In women with dense breasts, cancer is harder to see on mammograms

For dense breasts, ultrasound may be used in addition to mammography for review of certain areas of the breast or findings that are suspicious





Ultrasound can be used for needle guidance by providing confident needle visualization

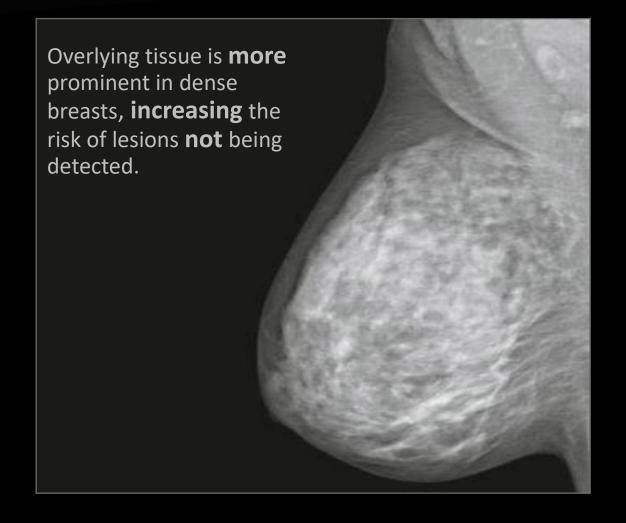


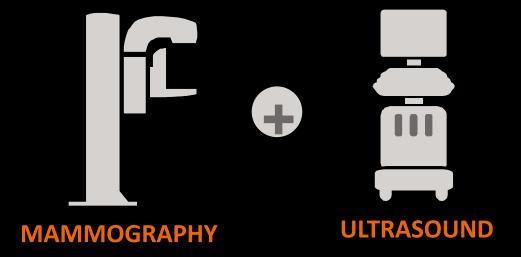
Al-powered measurements improve measurement efficiency and reduces variability



Next Generation 2D Shear Wave overcomes challenges associated with false negatives in breast lesion characterization

Dense breast tissueA challenge for breast imaging



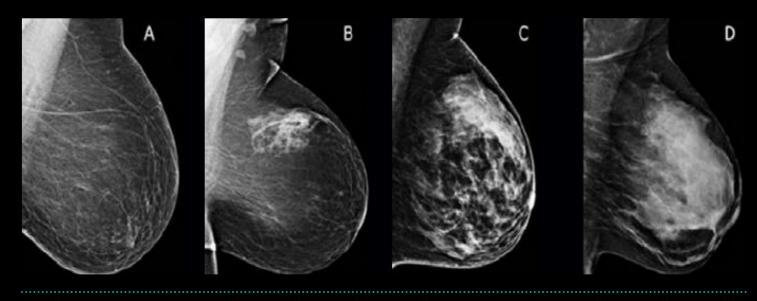


Combining ultrasound and mammography addresses this challenge by providing comprehensive clinical information.

Understanding the risk breast density and best practice for imaging



Radiologist classify breast density using a 4-level density scale¹



Birads AAlmost entirely fatty

Birads B Scattered areas of fibroglandular denisty

Birads C Heterogenously dense

Birads D Extremely dense

1 Sprague BL, Gangnon RE, Burt V, et al. Prevalence of mammographically dense breasts in the United States. J Natl Cancer Inst. 106(10), 2014. 2 Yaghjyan L, Colditz GA, Collins LC, et al. Mammographic breast density and subsequent risk of breast cancer J Natl Cancer Inst. 2011;103(15):1179–1189. 3 Breast cancer detection using sonography in women with mammographically dense breasts. Okello J, Kisembo H, et al. Med Imaging. 2014 Dec 30; 14():41

40-50%

Of women over the age of 40 have dense breasts

3x

Breast cancer is three times more likely in women with extremely dense breasts than fatty breasts²

27%

Of breast cancers are missed in women with dense breasts due to lesion obscuration³

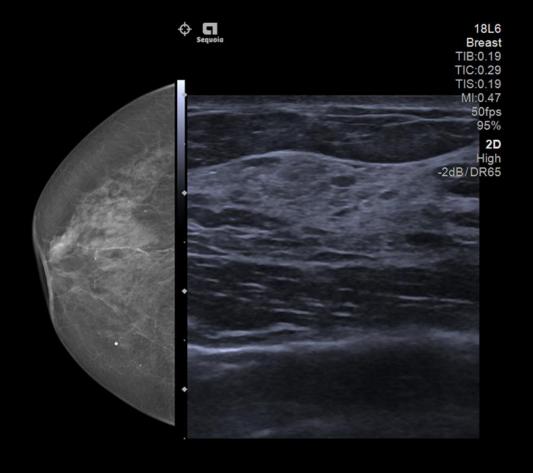
Expanded insights features designed to aid clinical confidence Modality compare



Increase diagnostic confidence during exams by allowing technologist or physician precision when correlating indeterminate pathology, isoechoic lesions or during biopsies

Improve procedural efficiency by potentially eliminating excessive correlation time during biopsies or serial exams

Potentially avoid additional cost by eliminating the need for additional viewing equipment in the procedure rooms, increase efficiency by eliminating excessive correlation time



3.5cm

Unexpected visual clarity and confidence for breast care



HLX High-frequency linear transducer

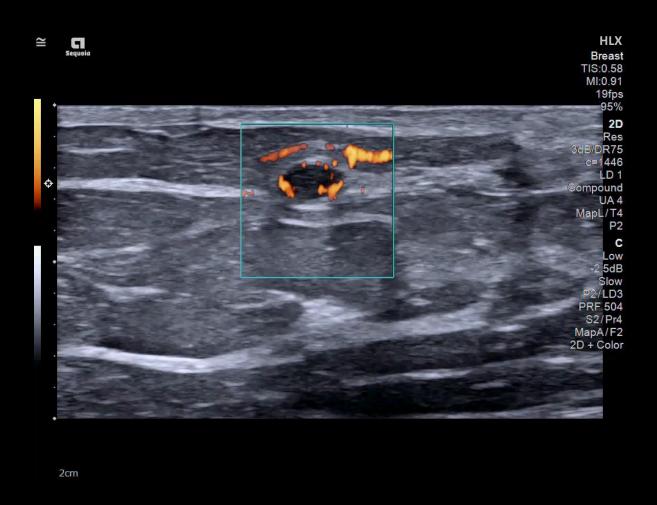


* Data of file

Our highest frequency linear transducer, optimized for imaging breast

Delivers resolution and penetration in one high frequency transducer

- Next Generation 2D SWE
- InFocus Imaging
- UltraArt
- Needle Enhancement
- Slow flow color
- Freehand 3D
- Gesture detection
- Trophon compatible



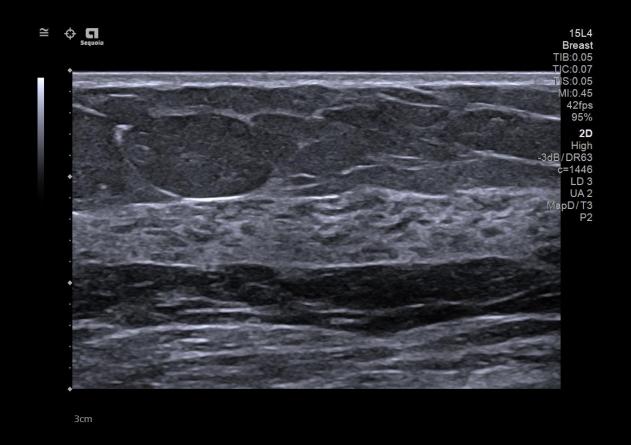
Expanded insights features and technologies that are designed to aid clinical confidence



15L4 Linear transducer



The Versatile 15L4 has 25% deeper 2D penetration* providing suburb imaging quality and supporting confident clinical decision making



Volume Imaging expanded insights features and technologies that are designed to aid clinical confidence



7VC2 Abdominal volume transducer

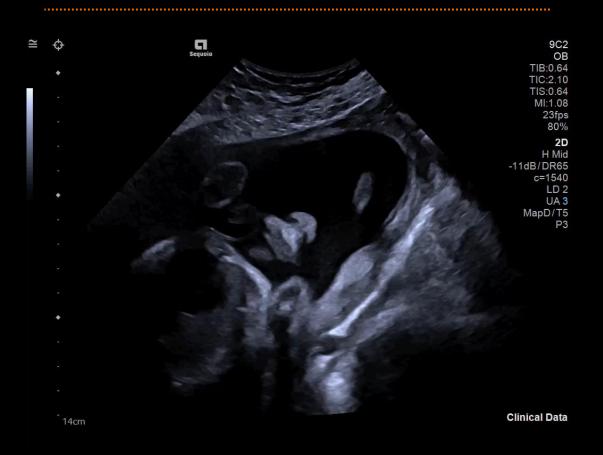


The volume transducer, 7VC2
has 45% deeper 2D
penetration* and 30% higher
VPS combined with advanced
rendering addressing clinical
needs in obstetric imaging





9C2 Curved transducer



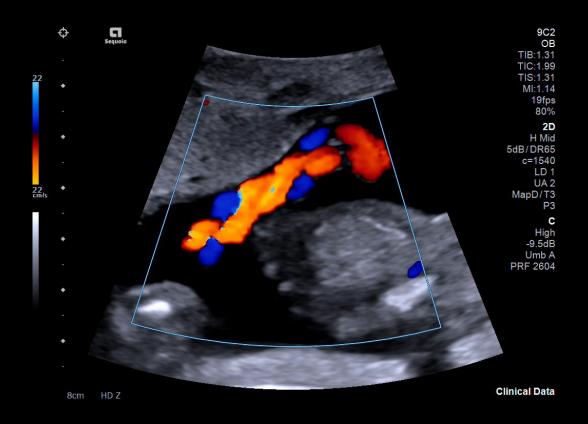
9C2 Curved transducer



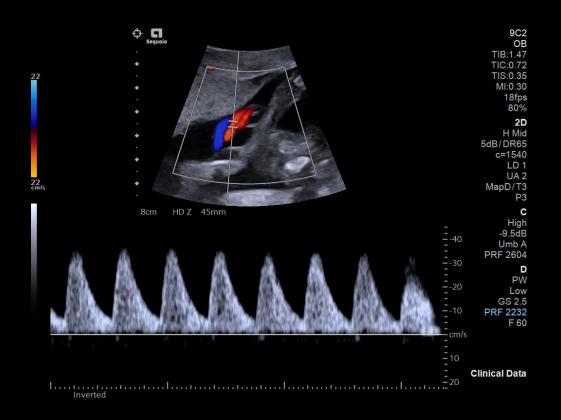
Highest resolution color flow, sensitivity and penetration



9C2 Curved transducer



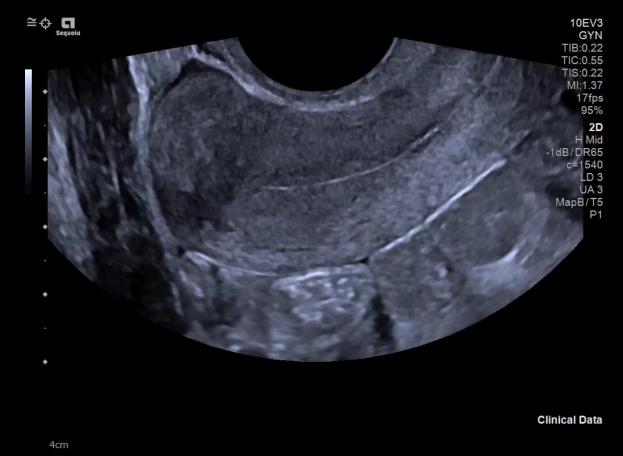
9C2 Curved transducer





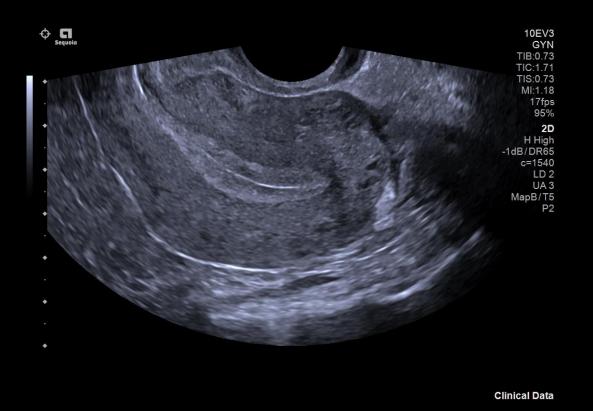
10EV3 Endocavity Transducer

The 10EV3 wide bandwidth, single crystal, ergonomic form factor and 30% deeper 2D penetration*





10EV3 Endocavity Transducer



10EV3 Endocavity Transducer



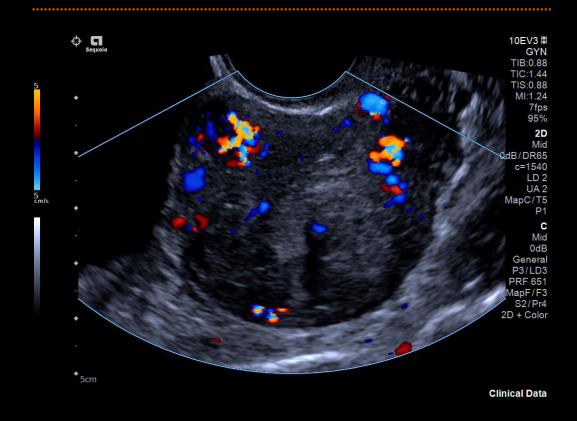
Addressing variations image fully focused from near field to far field Healthineers Highest resolution color flow, sensitivity and penetration



10EV3 Endocavity Transducer

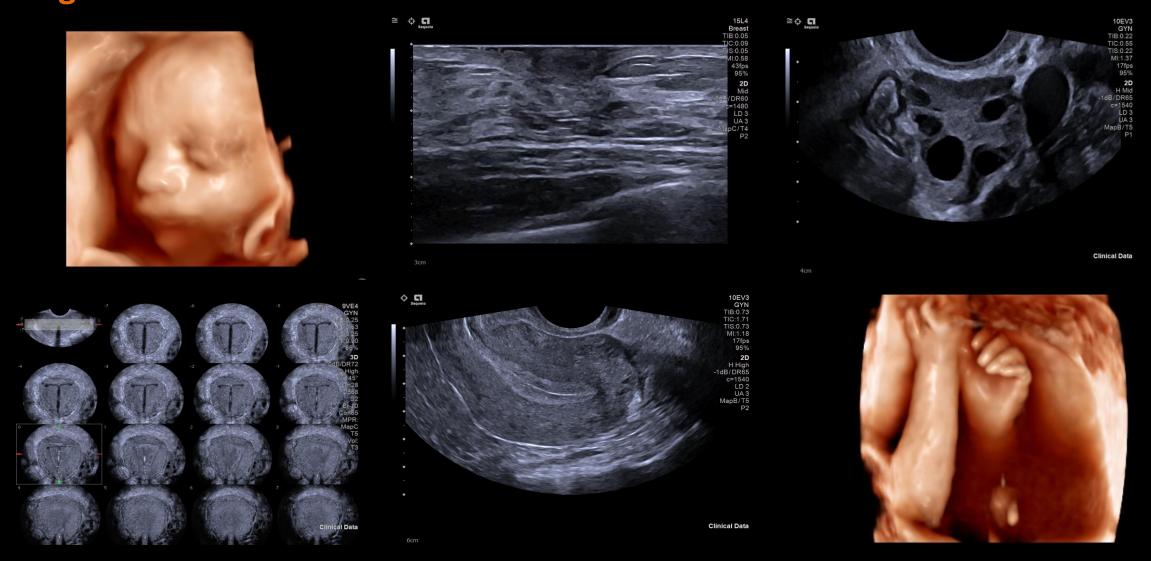


10EV3 Endocavity Transducer



Expanded insights and intelligent imaging with a system designed to aid clinical confidence





The burden of musculoskeletal related conditions

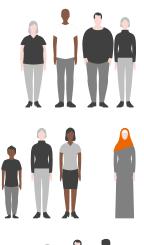


Approximately

1.71 billion

people have musculoskeletal conditions worldwide. (Global Burden of Disease (GBD)) countries.¹

Because of population increases and ageing, the number of people with musculoskeletal conditions is rapidly increasing.²







Musculoskeletal conditions significantly limit mobility and dexterity, leading to early retirement from work, lower levels of well-being and reduced ability to participate in society.³

The disability associated with musculoskeletal conditions has been increasing and is projected to continue to increase in the next decades.⁴



149 billion YLDS

YLDS
Musculoskeletal
conditions are also

conditions are also the biggest contributor to years lived with disability (YLDs) worldwide with approximately 149 million YLDS, accounting for 17% of all YLDs worldwide.⁵

Benefits of musculoskeletal ultrasound



\$

It is comparatively a lower cost, real-time, dynamic imaging modality that can be utilized in the clinic or in the field.



Ultrasound can provide immediate verification of findings suspected on physical exam.



Easy comparison with the unaffected side can serve as a control in assessing for pathology.



Dynamic studies allow for the evaluation of pathology during movement.



Ultrasound can be utilized for needle placement in treatment of the patient.



- Radiology
- Emergency Department
- Sports Medicine

- Rheumatology
- Anesthesiology
- Oncology

- Pediatrics
- Orthopedics
- Interventional Procedures







Unprecedented visual precision for musculoskeletal care



HLX High Frequency Linear Transducer

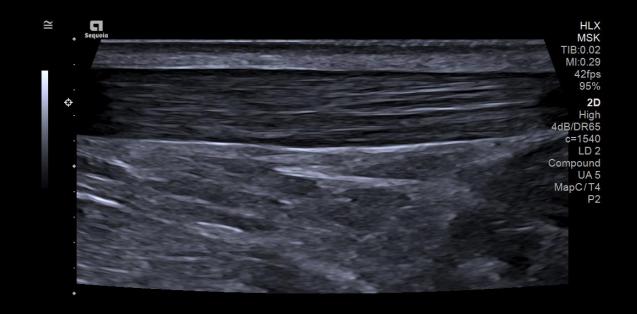


Our highest frequency linear transducer ever, experience an unexpected combination of resolution and penetration—so you no longer have to sacrifice one for the other.

Small footprint gives access to tight spaces.

Ergonomic design and light weight helps reduce strain and pressure during scans.

- Next Generation 2D SWE
- InFocus Imaging
- UltraArt
- Needle Enhancement
- Slow flow color
- Freehand 3D
- Gesture detection
- Trophon compatible



Achilles Tendon



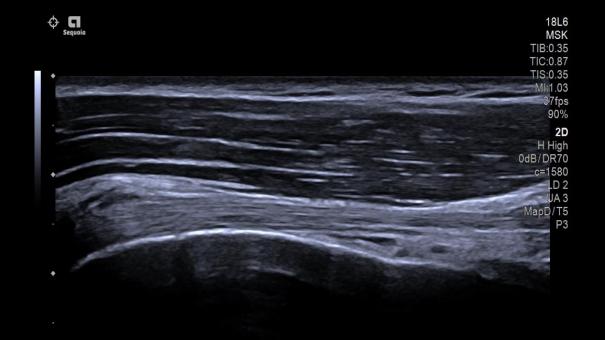
18L6 High Frequency Linear Transducer



Sagittal view of a Biceps Tendon utilizing the 18L6 transducer.

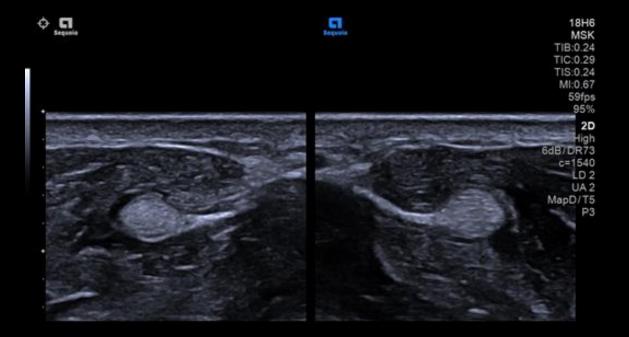
It has a fine pitch of 0.1mm which provides good lateral resolution and greater steering capabilities which improves compounding.

The large field of view of 57.5 mm clearly demonstrates the superb delineation of the tendon fibers.



18H6 Hockey Stick Transducer

InFocus Coherent Image Forming produces high resolution images with uniform focus and simplifies image acquisition workflow

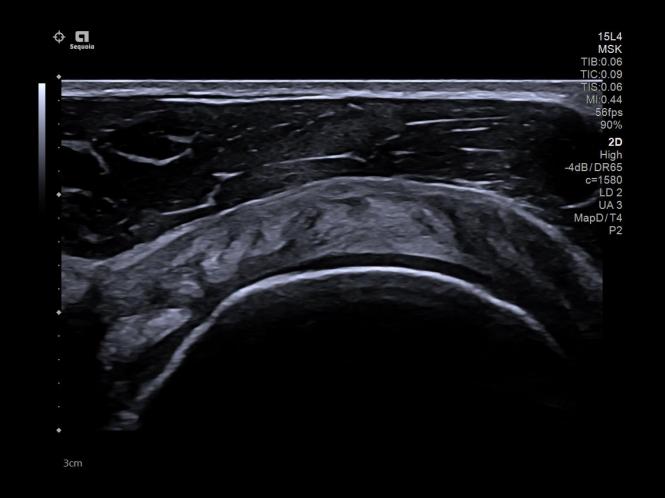




15L4 Linear Transducer



Dynamic Range Increased by up to 18dB, improving image clarity and penetration*



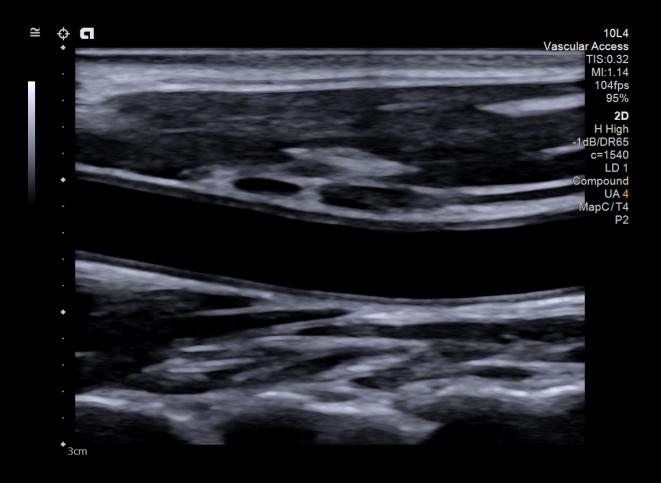
A versatile addition to your MSK transducer options



10L4 Linear Transducer



Re-optimized 10L4 transducer includes improved near field imaging, a more uniform pixel presentation, and better contrast resolution.



Expanded Insights features designed to aid clinical confidence Fusion Imaging

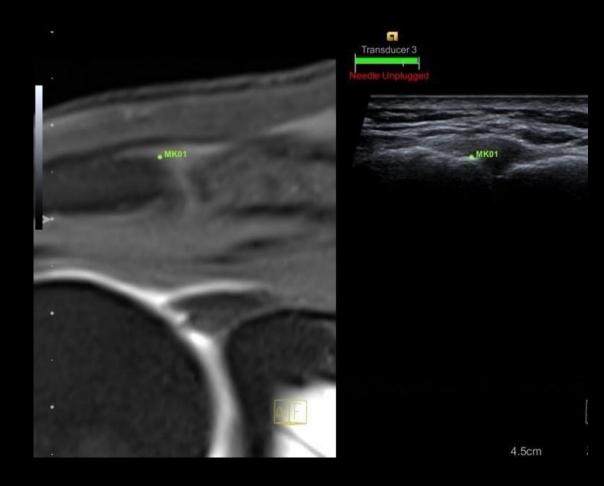


Fusion Imaging

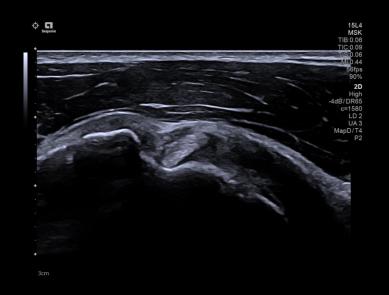
Increase diagnostic confidence during complex interventional procedures by combining the anatomic precision on CT or MRI with live ultrasound, potentially helping to correlate indeterminate pathology or isoechoic lesions

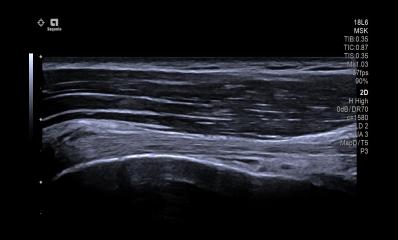
Improve procedural efficiency with exclusive, flexible tools for rapid and accurate alignment

Potentially avoid additional procedure cost, dose exposure and time by increasing access to real-time ultrasound imaging in interventional procedures



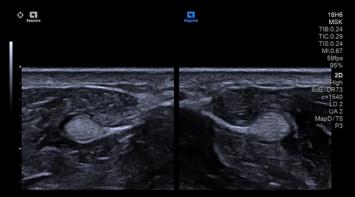


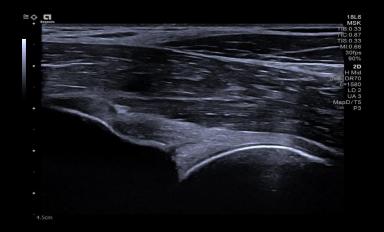


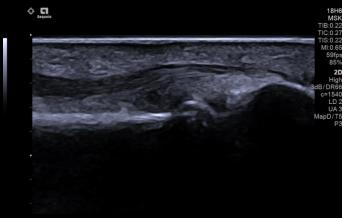




≅ ⇔ 🗖







Pediatric ultrasound has unique challenges and advantages



Ultrasound advantages

- Reduced radiation exposure
- Portability
- Temporal resolution
- Diagnosis without need for additional imaging

10x

than adults.²

more radiosensitive





of premature termination of MRI exam on children due to fear, anxiety and claustrophobia.³



254 million

Worldwide children aged 5-19 projected to be obese by 2030.4



Pediatric ultrasound must address a wide



highest likelihood of requiring sedation for diagnostic imaging.¹

1-6-year-olds have the

range of patients.

129

An innovative solution for neonatal imaging

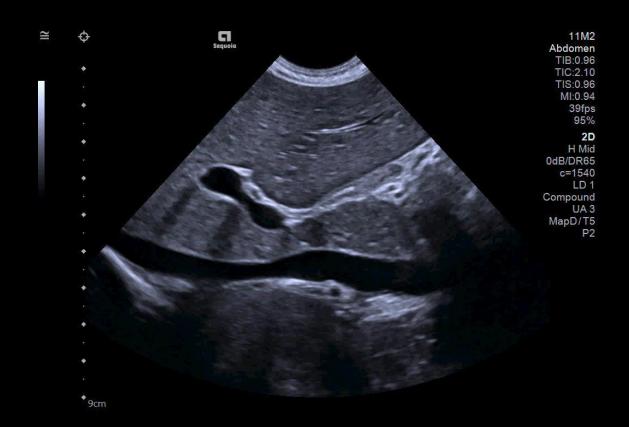


11M2 MicroConvex transducer



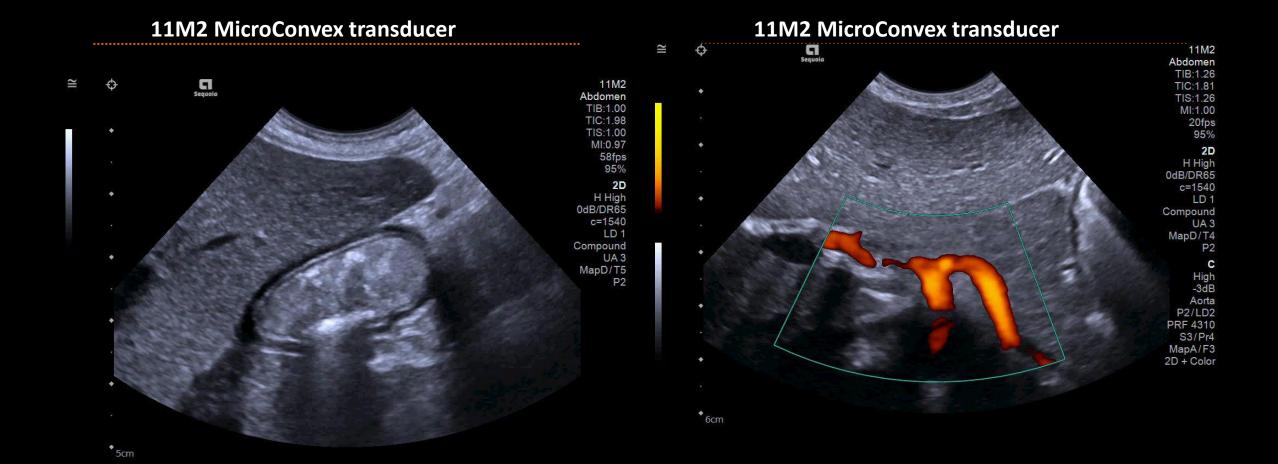
Single crystal transducer with a small footprint delivering superb detail and temporal resolution for managing tiny acoustic windows and isolated scanning

- Workflow enhancing
- Slow Flow color
- Freehand 3D
- UltraArt
- Gesture Detection
- Wide FOV, up to 35%



Addressing variations in imaging





Small footprint, matrix solution for pediatric imaging



5Z1 Matrix Array transducer

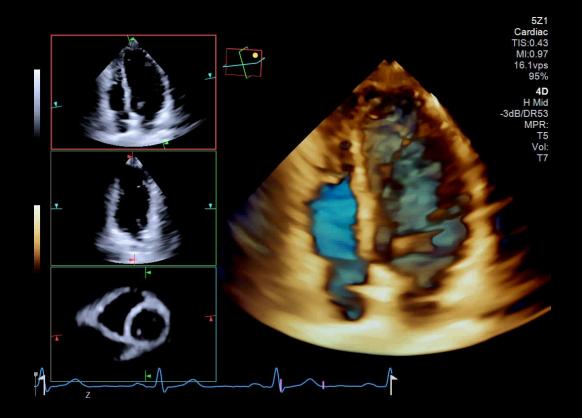


Matrix array transducer for Pediatric abdomen, gynecology, and cardiac imaging

Ergonomic design with a small footprint

Active electronics for instantaneous full volume transthoracic echo (TTE)

2D Bi-Plane+, 2D Bi-Plane Color, 4D Volume, 4D Color



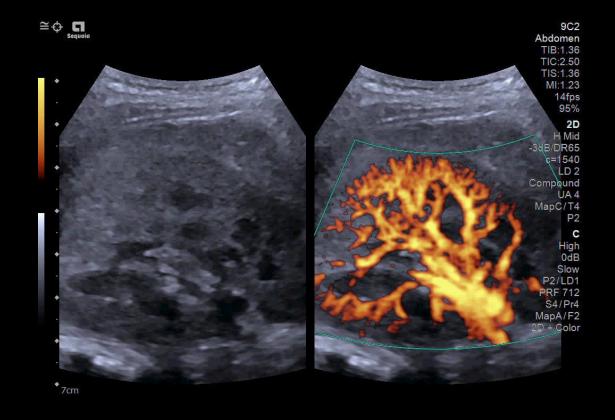
The latest transducer introduction for pediatric imaging



9C2 Curved Transducer



High-resolution abdominal imaging in the pediatric population —with greater than 15% color penetration than conventional transducers*



Auto pSWE and UDFF: Expanded insights features designed to aid clinical confidence



Abdomen

TIB:1.03

TIC:2.01

MI:1.29

-1dB/DR65 c=1540

66fps

2D H Mid

LD 2 UA 3 MapE/T5

pSWE

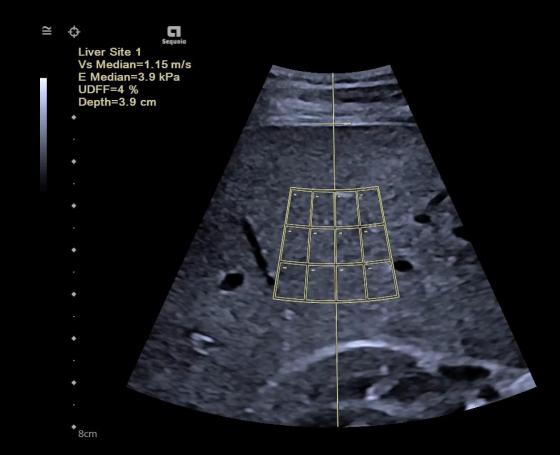
9C2 Curved Transducer



Auto pSWE

Reduce liver elastography exam time and operator variability by delivering up to 15 measurements in less than 5 seconds*

Ultrasound-derived fat fraction
UDFF delivers a similar
clinical utility to Magnetic
Resonance Imaging Proton Density
Fat Fraction (MRI-PDFF) for
determining hepatic steatosis

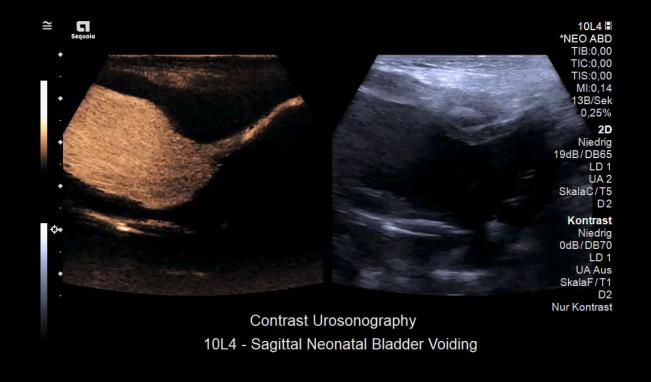


Contrast-enhanced voiding urosonography (ceVUS) is a valuable alternative to VCUG for pediatric urinary tract evaluation



Advantages of ceVUS:

- No ionizing radiation
- Higher sensitivity than VCUG
- Detects higher grades of reflux than VCUG



5.5cm

Versatile pediatric transducers optimized to perform a variety of clinical use cases

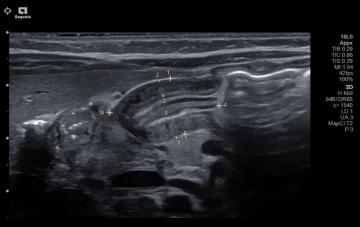




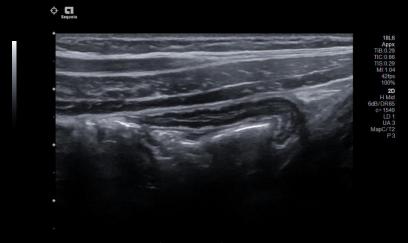
Sagittal Liver, Kidney – 3 years



Sagittal Liver, IVC − 7 years



Pyloric Stenosis – 4 weeks



Normal appendix – 6 years



Sagittal cranial LT Lateral – 3 months



Coronal cranial – 3 months

Correlation of obesity to chronic disease

Linked to more than 60 chronic diseases¹



60-70% Hypertension

In adults is attributable to adiposity²



Deep Vein Thrombosis (DVT)

2.5x More likely to develop DVT

Peripheral Artery Disease (PAD)

1.5x More likely to develop PAD³

Stroke Primary risk factor is obesity and overweight4

1 in 4 will have a stroke in their lifetime¹





12.2 M new strokes per year²

101 M

living with stroke aftermath⁴

6.5 M

die from stroke annually³

\$451 billion

estimated worldwide costs of stroke⁵



ACUSON Ultrasound systems offer the technology you need for confident assessment

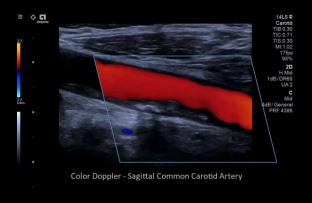




Auto IMT

Intima Media Thickness Measurement

- Establishes cardiovascular risk profiles
- This technology will help to establish risk profiles, and to classify patients with intermediate vascular disease

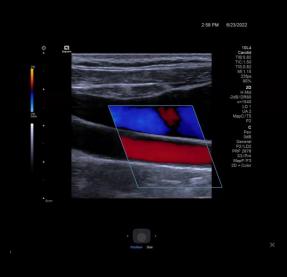


Carotid Ultrasound

- Screening patients for atherosclerotic buildup of plaque within these vessels which increases the risk of stroke
- Useful diagnostic tool for assessing cervical carotid artery disease

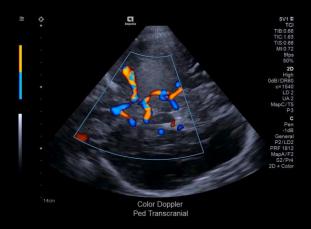
ACUSON Ultrasound systems offer the technology you need for confident assessment





Auto Doppler

- Enables automated placement with angle adjustment for Color and PW with no user interaction
- Reduction in keystrokes and operator variability potentially improving time to diagnosis



TCD Ultrasound

Transcranial Doppler Imaging

- Low-cost exam to detect medical conditions that affect blood flow in the brain
- Early and accurate detection of arterial occlusion guides emergency management in patients with acute ischemic cerebrovascular accident

Increased versatility with a low frequency linear transducer alternative

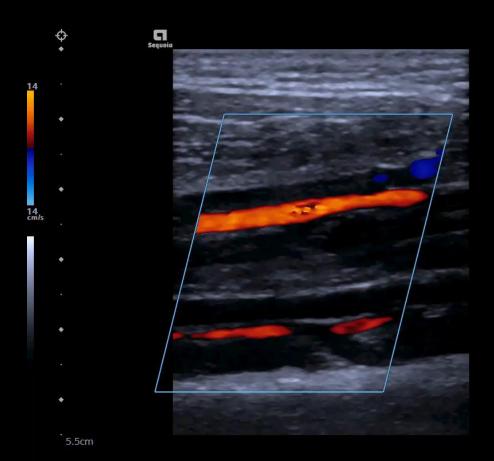


7L2 Deep linear transducer



Single crystal transducer **58% deeper color** mode penetration
than the conventional 9 MHz
linear transducer.*

Deeper penetration when needed for more difficult exams

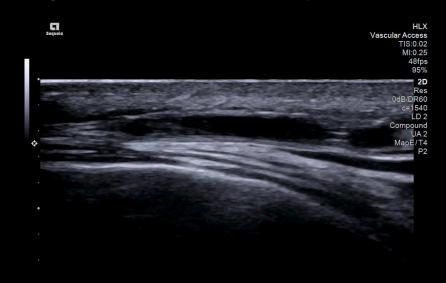


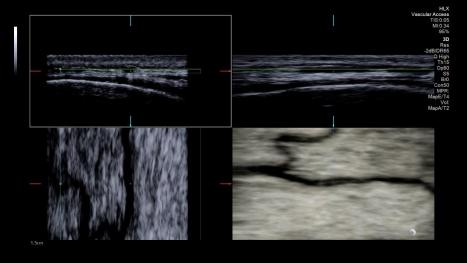
7L2

Venous
TIB: 0.48
TIC: 1.51
TIS: 0.48
MI:1.38
21fps
95%
2D
H High
14dB/DR65
c=1540
LD 2
UA 3
MapC/T5
P3
C
Low
-12.5dB
General
P3/LD1
PRF 1208
MapF/F1
S3/Pr4
2D + Color

HLX transducer provides superior near field imaging of superficial vessels (radial, temporal)

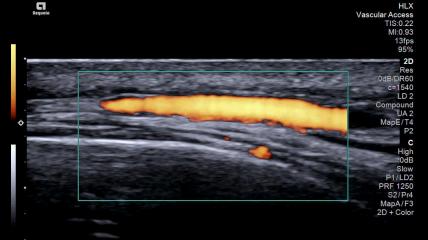






Optimized for superficial vascular applications

- Our highest frequency linear transducer
- Slow Flow technology to visualize smaller, slower flow vessels
- Freehand 3D allowing spatial visualization of vessel branches not seen in 2D



Helps reduce strain & pain

- Small footprint for tight access
- Ergonomic grip and narrow shape for constant light pressure
- Complements the vascular portfolio with the 14L5 and 10L4 probes

Increased versatility with a low frequency linear transducer alternative

ACUSON Sequoia (10L4)

ACUSON Sequoia (7L2)

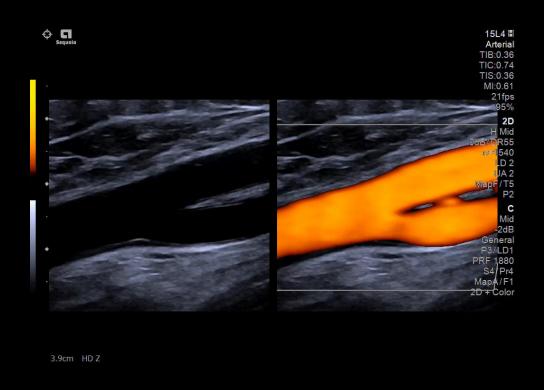


The 7L2 transducer provides 35% deeper B-mode penetration*

Highest resolution color flow, sensitivity, and penetration



ACUSON Sequoia (15L4)

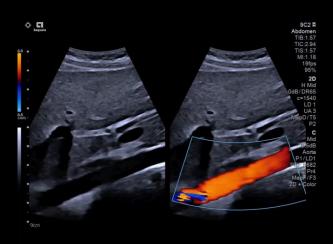


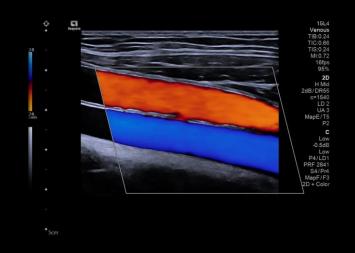
ACUSON Sequoia (5C1)

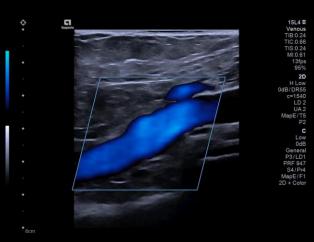


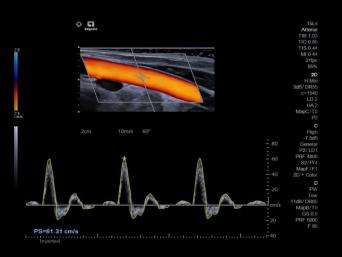
Addressing variations image fully focused from near field to far field Healthineers : Highest resolution color flow, sensitivity, and penetration

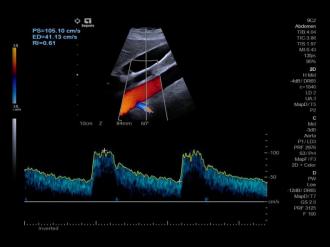












ACUSON Sequoia is designed to help you improve diagnostic confidence and patient outcomes





Intelligent Imaging

Experience powerful imaging and reduced variability with automation in each major mode and a wide selection of advanced transducers.

- InFocus Imaging
- UltraArt
- Freehand 3D
- Advanced transducers



Expanded Insights

Expand your expertise with advanced tools and AI innovations designed to improve diagnostic confidence and patient outcomes.

- Al Abdomen
- Al Cardiology
- 2D Next-Gen SWE
- UDFF



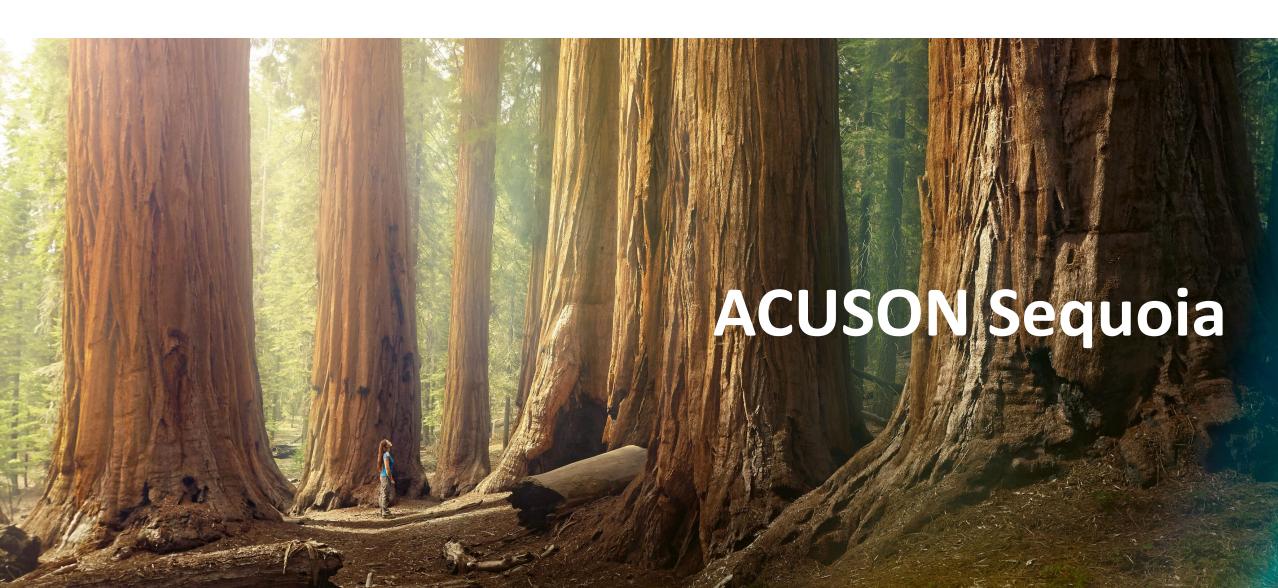
User Driven Design

Embrace advanced productivity with AI powered tools and an intuitive design for the ultimate user experience.

- Walk-up Usability
- Workflow
- **Gesture Detection**







The ACUSON family enables improved access to care across departments





Maximize return on investment

Standardize workflow

Enable unparalleled Remote Service

Protect from cyber threats



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The statements by Siemens Healthineers' customers described herein are based on results that were achieved in the customer's unique setting. Because there is no "typical" hospital, clinic or laboratory and many variables exist (e.g., hospital size, samples mix, case mix, level of IT and/or automation adoption) there can be no guarantee that other customers will achieve the same results.

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Status July 2025