ACUSON AcuNavTM Volume ICE Catheter

Integral to excellence

Advanced procedures require advanced imaging

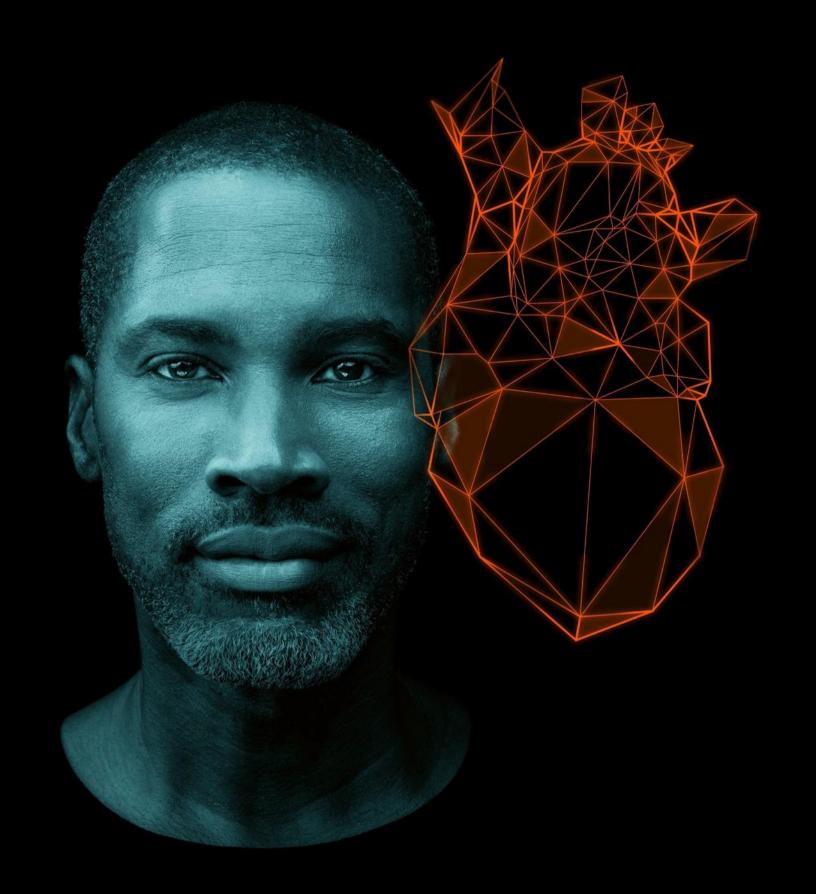














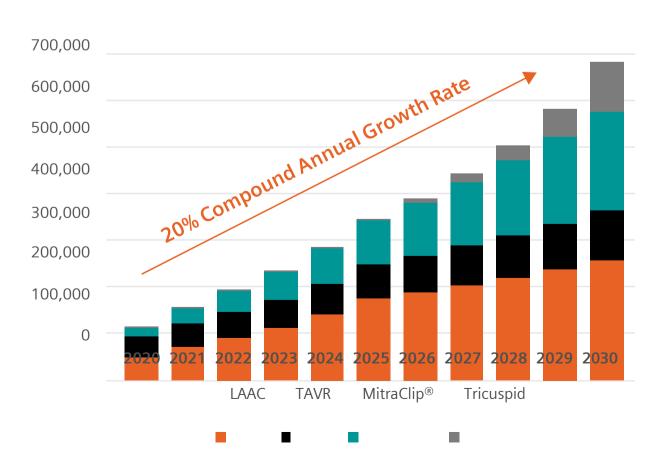
The future of structural heart procedures is complex

Your imaging shouldn't be

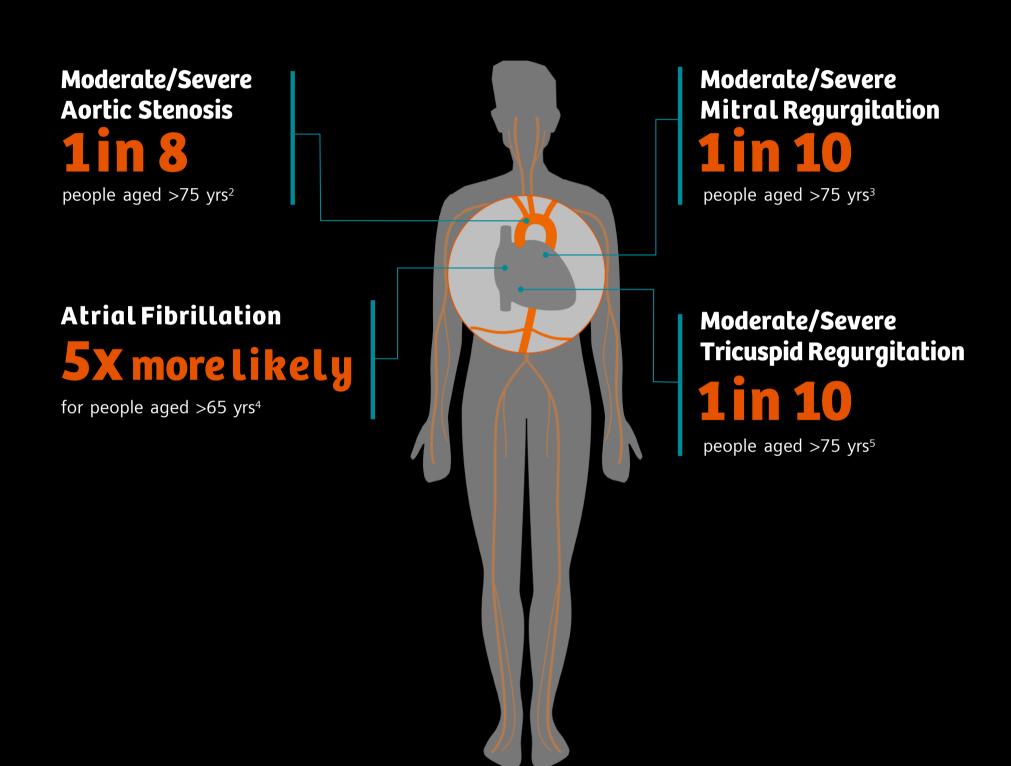
The next generation of structural heart procedures will require mastery over technique and technology to ensure we maintain amazing outcomes for patients.

More complex procedures require more advanced imaging. The ACUSON AcuNav Volume ICE catheter delivers the excellence and efficiency you require, now and into the future.

Structural heart disease procedures will increase almost three-fold by 20301







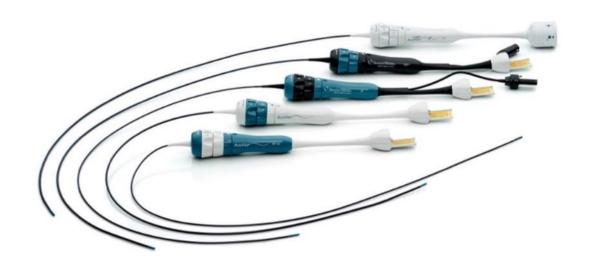
- 1. Model for 4D ICEv3; 2020-03-19 AcuNav Volume Report
- 2. Dudek D, Barbato E, Baumbach A, Windecker S, Haude M. Current trends in structural heart interventions: an overview of the EAPCI registries. *EuroIntervention*. 2017 May 15:13(Z):Z11-Z13.
- 3. Little S. Structural Heart Interventions. Methodist Debakey Cardiovasc J. 2017 Jul-Sep;13(3):96–97
- 4. CDC AF Fact Sheet
- 5. Bhatia N, Basra SS, Skolnick AH, Wenger NK. Aortic valve disease in the older adult. J Geriatr Cardiol. 2016 Dec;13(12):941-944.

Visionary leadership

Integral to excellence

Leading the pack

As the inventors of ICE, we keep moving the bar and pushing forward. Why? Because you need optimal imaging tools to provide the best outcomes for your patients.



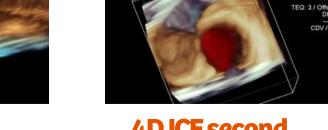


2000 First in 2D ICE 2007



Volume ICE

2012





2018



2022

NEWACUSON
AcuNav Volume
ICE catheter

What's next?

- Next-generation visualization
- Greater efficiency
- Enabled with AI applications powered by ACUSON SC2000™ PRIME for reproducibility and ease of use
- Reliable data for quicker decision-making

Exceptional education

Integral to excellence

Put the benefits of 4D Volume ICE to work for you and your patients



Smart Simulator

Your simulated hands-on experience to practice manipulation of the catheter



Expert Guidance

Dedicated time with an experienced physician for 4D ICE education





AcuNav Academy

Engage in personalized competencybased online education



Master Class

Connect with leading industry clinicians in a physician-led class

Onsite:

Customized and hands on Tailored product education

Classroom training Enriching environment

Clinical support
Didactic and hands-on workshop

Proctorship programsPeer-to-peer learning network

Offsite:

Computer-aided simulators
Customized learning

Probe Translation

Probe Rotation

Expert roundtable sessionsVirtual sessions

OnDemand education
Accessible remotely

Experts on demand

1,000+

4D ICE procedures supported

200+

years combined team experience

Advanced accuracy Integral to excellence

With over 2M patients impacted, Siemens Healthineers is the ICE market leader



Designed to achieve unique views from inside the heart



Safely puts you closer to the anatomy



Provides alternative imaging options for patients with contraindications

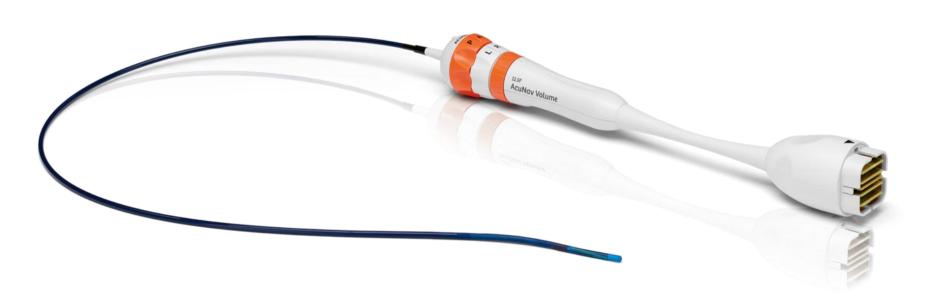


Image Modes

- 2D and 4D
- 2D and 4D color flow Doppler
- Pulsed wave (PW) and continuous wave (CW) spectral Doppler

Catheter Specs

- Real-time volume (4D) imaging
- Azimuthal, elevation, coronal planes
- 12.5 F, 90 cm
- Up to 40 volumes per second (vps) in 4D B-mode
- Up to 20 volumes per second (vps) in 4D color mode
- One-click MPR





ACUSON SC2000 PRIME ultrasound system

- Utilize the most complete suite of 2D and 4D Al-powered applications on the market
- Gain precision and speed with advanced imaging and measurement tools
- Stay current with continuous improvement for hardware and software, and new remote service support

Increase operational efficiency

- Schedule interventions with more flexibility when you don't need to wait on general anesthesia
- Empower yourself to be more autonomous, efficient, and impact more lives

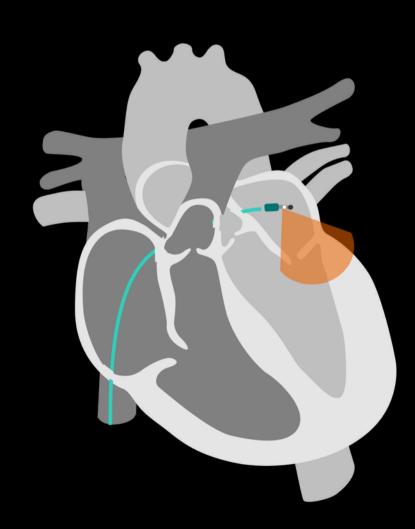
Dependable delivery

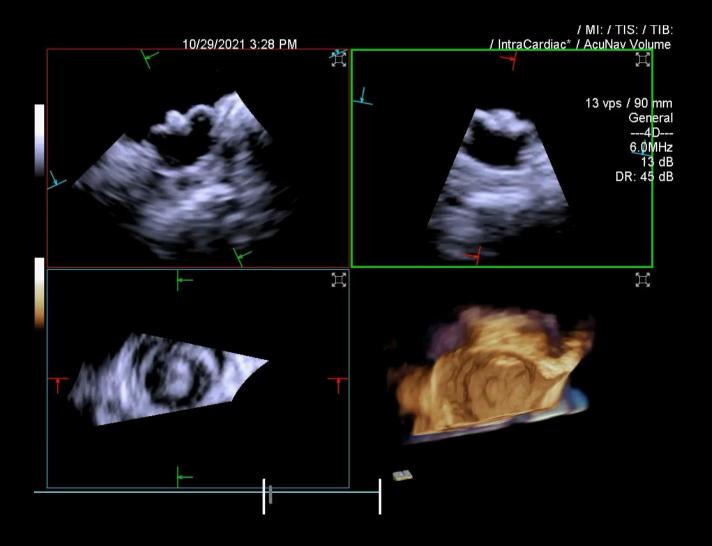
 Production capacity is optimized to meet our customers' growing demand for ICE catheters

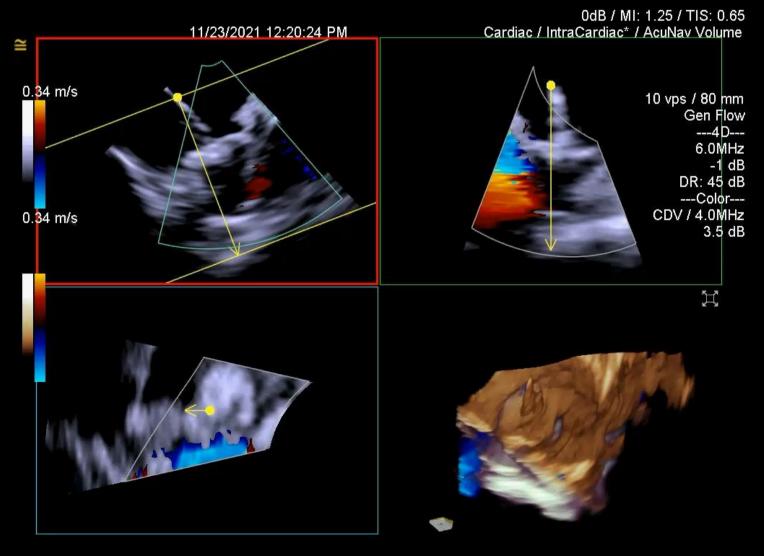
Advanced procedures

LAA closures

Measure, guide, and deploy in fewer ICE positions. Consistent, reliable data give you confidence to confirm PASS criteria.



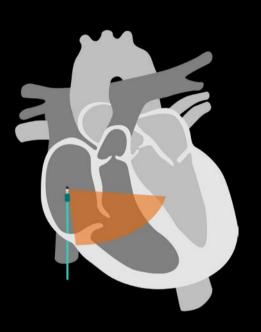


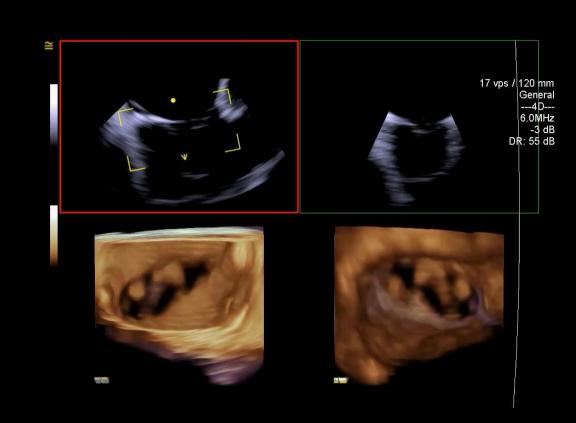


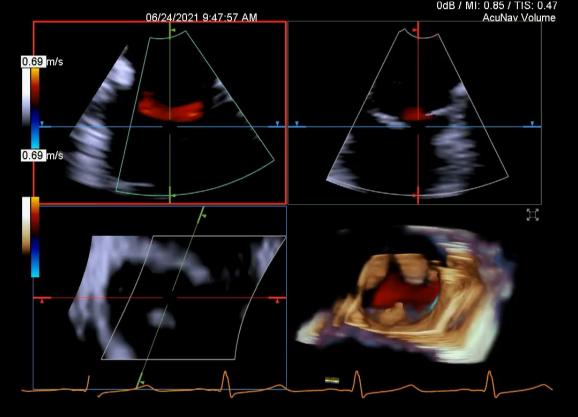
Require advanced imaging

Tricuspid repair/replacement

Imaging directly from the right atrium enables clear visualization of the tricuspid valve.

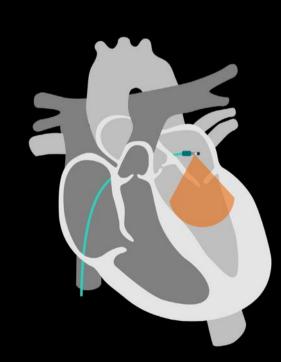


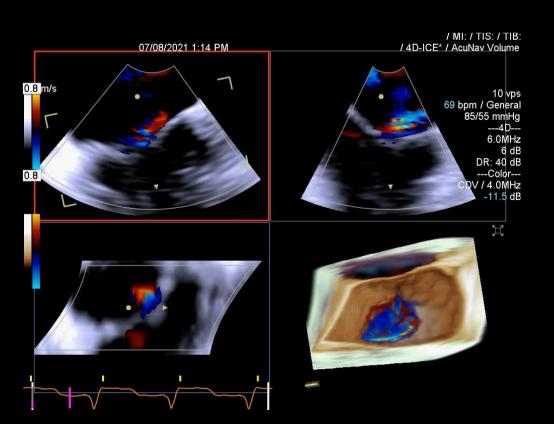


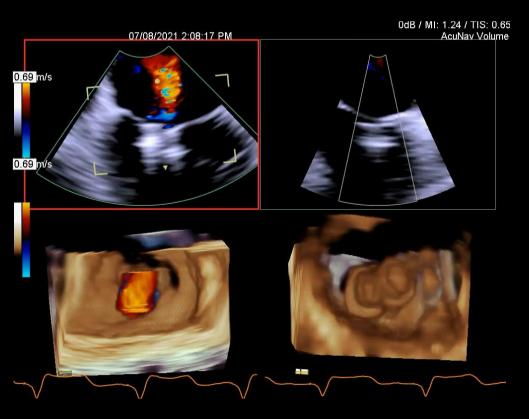


Mitral repair/replacement

Enabling precise device placement and leaflet grasping.



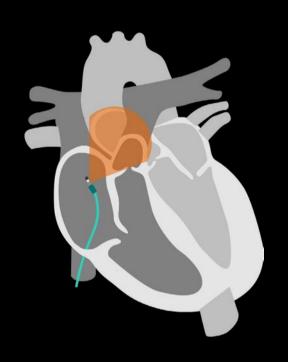




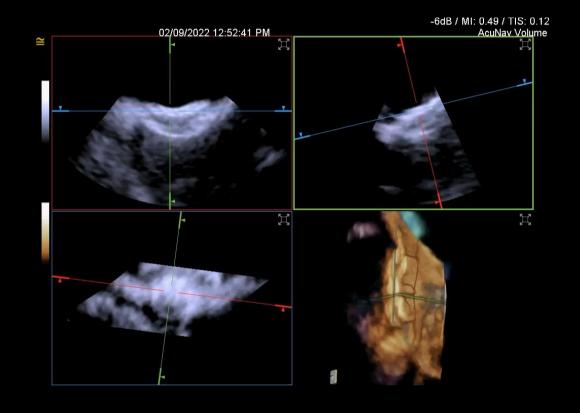
Advanced procedures

ASD/PFO closure

View the septal defect with 4D volume with one catheter position.

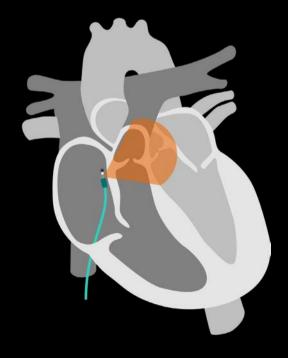




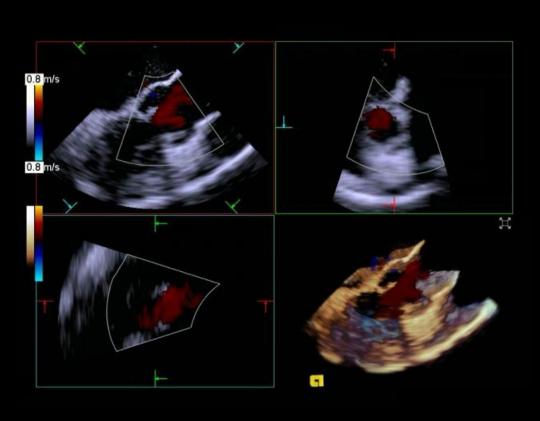


TAVR/TAVI

Evaluate paravalvular leak with 4D color flow Doppler in one catheter position.



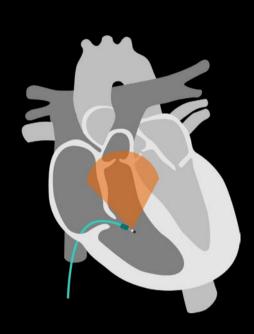


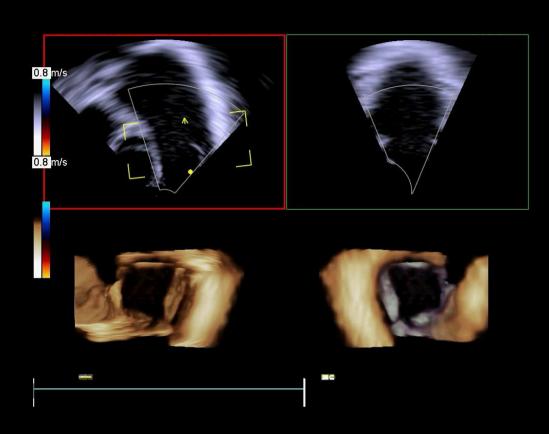


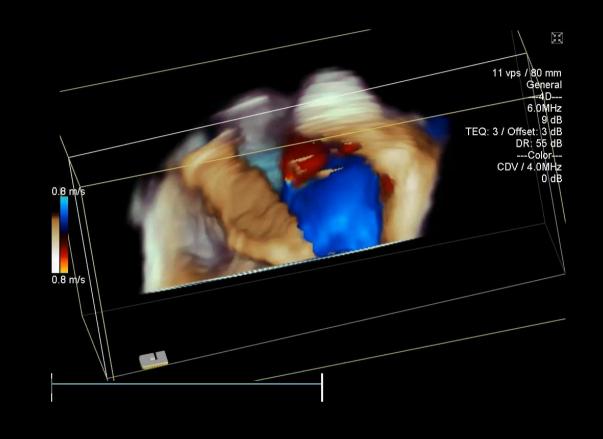
Require advanced imaging

Pulmonic valve

A clear line of sight reduces shadowing and bypasses anatomical obstructions that can make imaging uncertain.

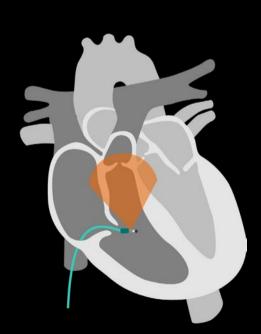


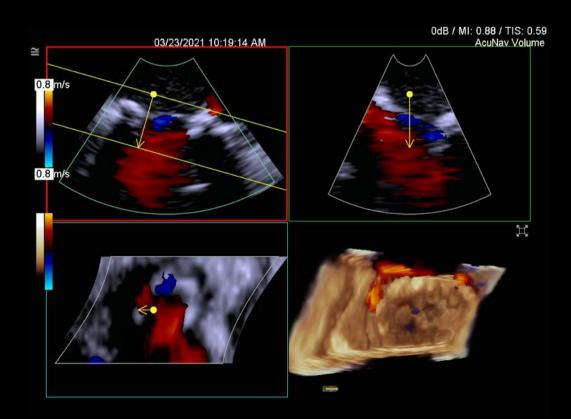




PVL closures

Enable precise leak localization and device navigation.





Working together

Integral to excellence

Next-level innovation happens when leaders come together. As industry leaders, it is our responsibility to partner with independent experts in the advancement of 4D ICE for patients and the industry.



"4D ICE imaging enables visualization of the forgotten valves, guidance of novel structural heart disease interventions, and treatment of the formerly 'untreatable' patients." 1

Six 4D ICE benefits

As presented at ACC 2023 by the Global 4D ICE Imaging Consortium:

- Supports the unique challenges and needs of the aging population¹
- Expands innovative SHD therapy options¹
- Increases treatable patient profile via conscious sedation¹
- Overcomes limitations of TEE imaging¹
- Provides unique viewing angles and acoustic windows¹
- Improves cost efficiency by avoiding intubation, reducing anesthesiology and nursing staff, and reducing procedure and operating time¹

Advanced imaging Integral to excellence

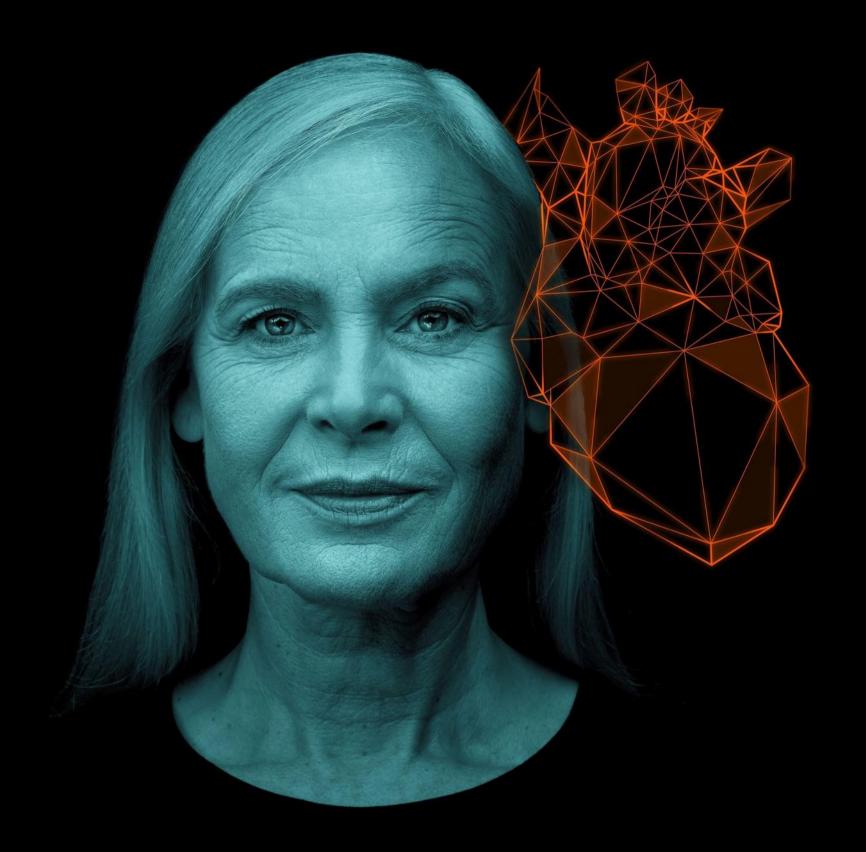
Innovative ICE leadership for over 24 years.

Mastery through unparalleled education & training.

Performance through intentional design.









The products/features mentioned in this document may not be commercially available in all countries. Due to regulatory reasons their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

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An estimated five million patients worldwide everyday benefit from our innovative technologies and services in the areas of diagnostic and therapeutic imaging, laboratory diagnostics and molecular medicine as well as digital health and enterprise services.

We're a leading medical technology company with over 120 years of experience and 18,500 patents globally. With over 50,000 employees in more than 70 countries, we'll continue to innovate and shape the future of healthcare.

https://www.siemens-healthineers.com/en-us/ultrasound/cardiovascular/acunav-volume-ice

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