

# Why Upgrade your Vivid platform ?

GE Healthcare accelerates innovation with a full suite of robust features and scalable options.





WIP



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**Vivid E95**  
Ultra Edition



At GE Healthcare we aim to remove tedious tasks and help make every moment count for your patients.

**CLINICAL EXPERTISE**  
for the Echo Lab

## Productivity

As clinician, you need robust ultrasound tools that enable productive, patient-centered care, across a wide range of clinical scenarios and applications.

NEW

AI auto spectrum recognition: Innovative semi-automatic quantification of the tricuspid valve in 4D.

NEW

AI Auto measure 2D : Powered by AI-based View Recognition, AFI LV provides semi-automated quantification of left ventricular global and segmental strain.

Icon up

AFI 3.0 with view recognition : Powered by AI-based View Recognition, AFI LV provides semi-automated quantification of left ventricular global and segmental strain.

NEW

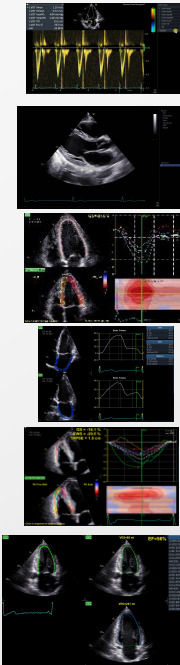
AFI LA : AFI RV is a novel tool to assess the right ventricular function by advanced speckle tracking echocardiography.

NEW

AFI RV : AFI LA Strain is a novel method to assess the left atrial function allowing global strain to be measured using speckle tracking echocardiography.

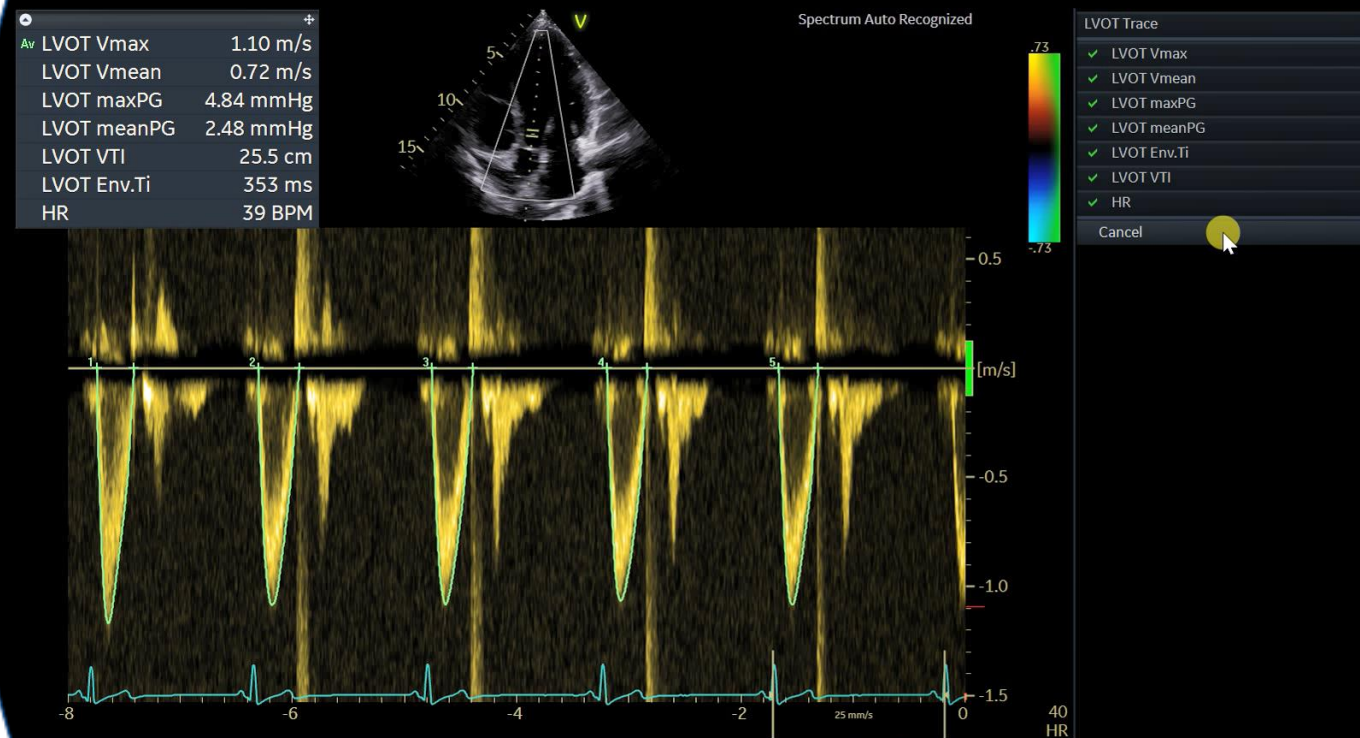
Up icon

Auto EF : Powered by AI-based View Recognition, Auto EF provides semi-automated quantification of left ventricular volumes and ejection fraction.

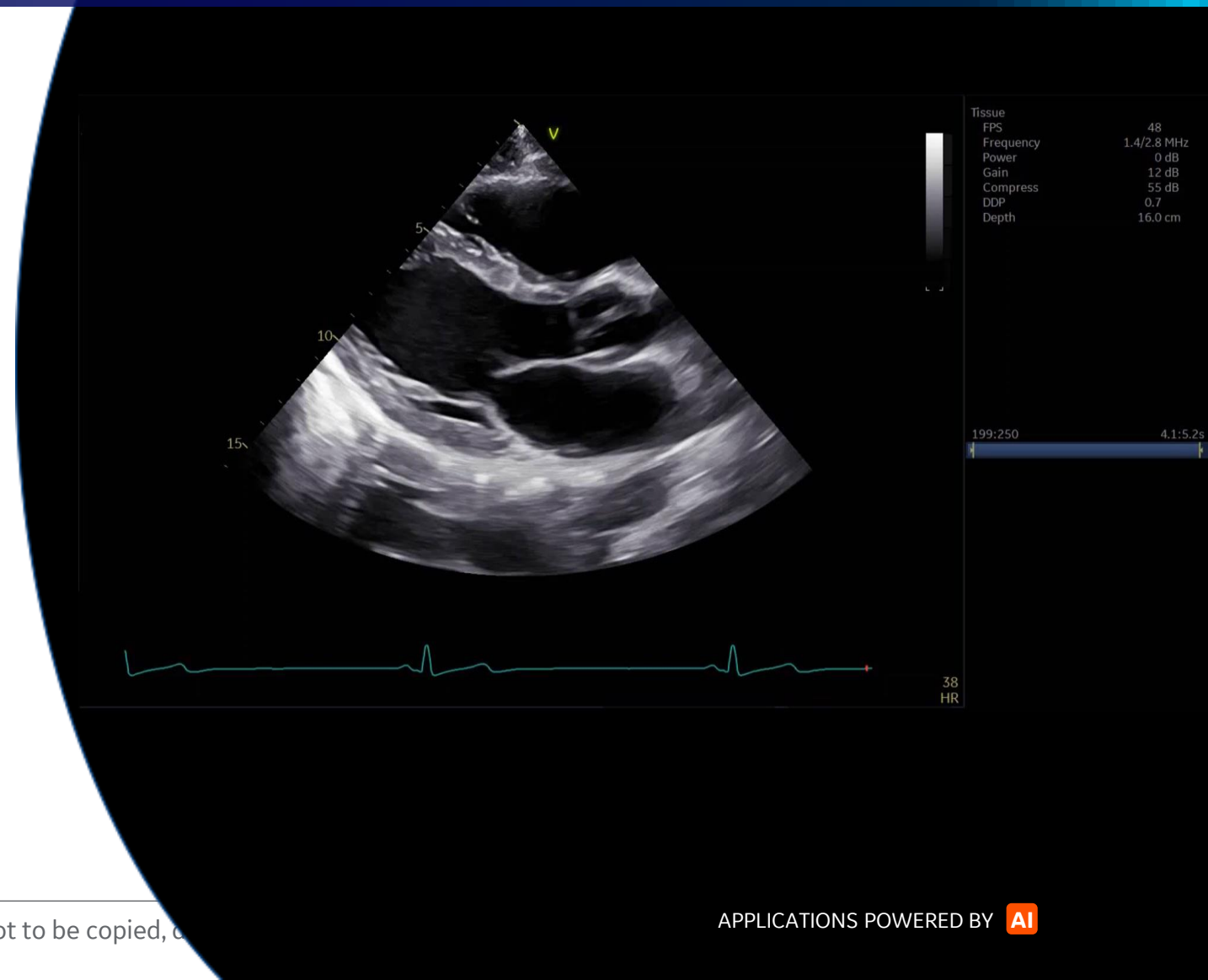


# AI Auto Measure Spectrum Recognition

- Semi-automatic selection of appropriate spectral Doppler measurement tool.
- **Benefits:**
  - Enables fewer manual interactions by automatically opening the appropriate measurement tool <sup>1</sup>
  - Works seamlessly with Cardiac Auto Doppler
  - Enhances reproducibility of follow-up studies when used in automated mode <sup>1</sup>
  - Supports less experienced users with advanced automation



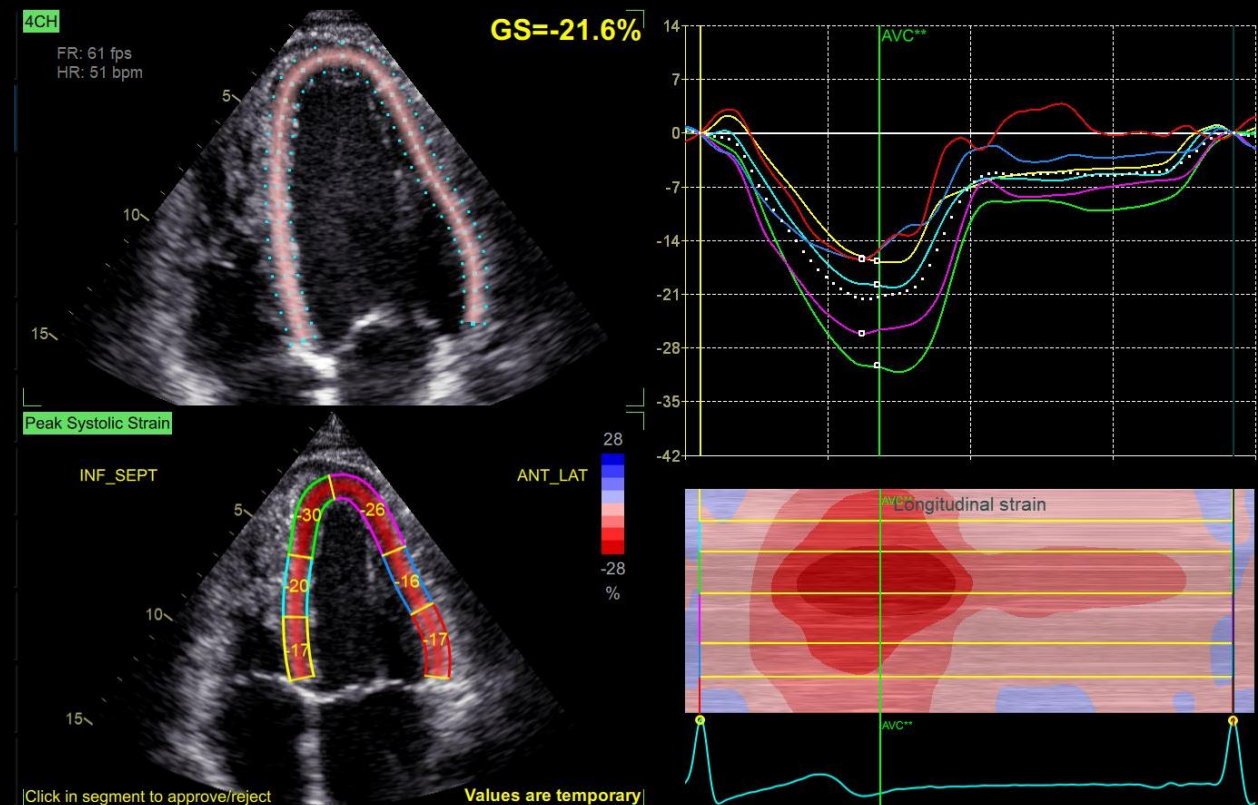
- Semi-automated LV dimension measurements (2D calipers) in the parasternal long axis view, reducing manual interactions.
- **Benefits:**
  - Achieves fast measurements of left ventricle dimensions:
    - Up to 80% less clicks <sup>1</sup>
    - No need to scroll to look for ED and ES frames
    - Reduce manual workflow during analysis of cardiac images
  - Improves reliability and repeatability of measurements – potentially increasing reproducibility for follow-up studies <sup>1</sup>



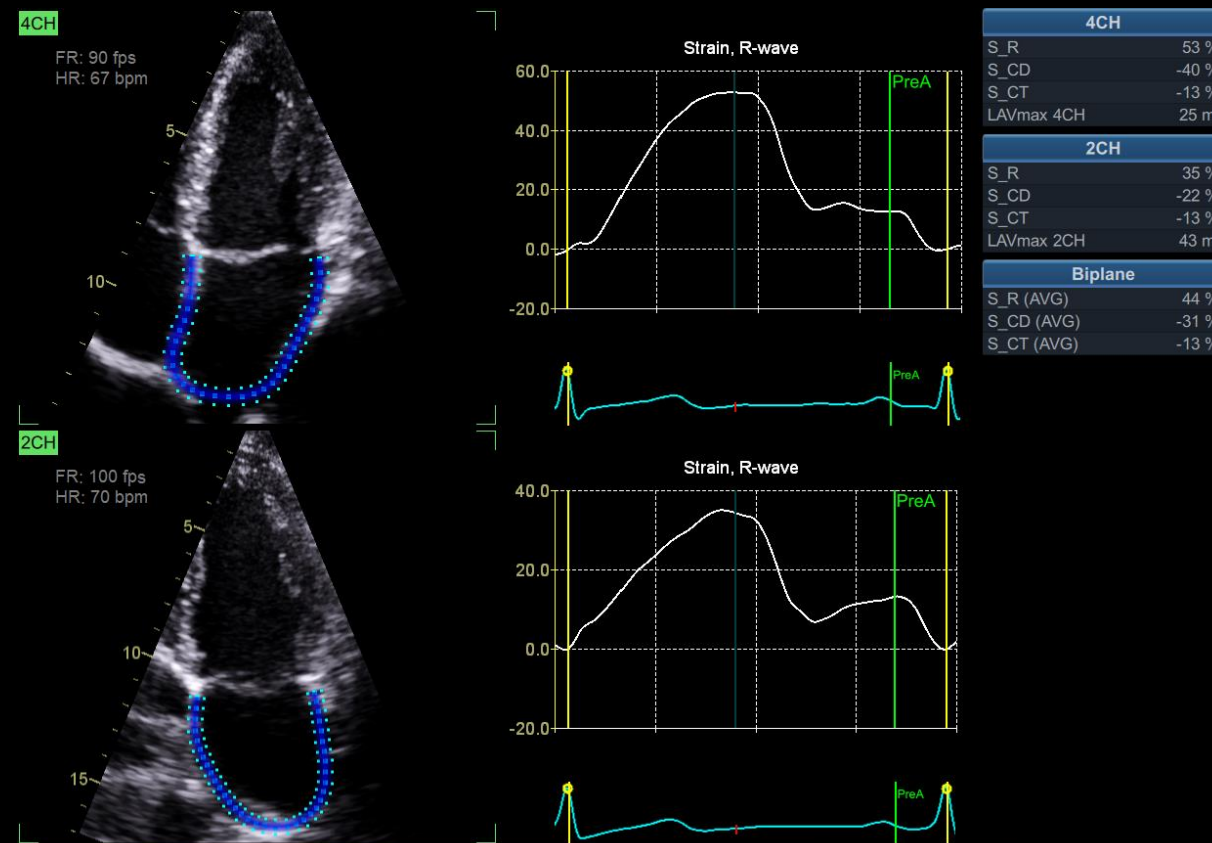
# AFI LV with AI View Recognition\*

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- Powered by AI-based View Recognition, AFI LV provides semi-automated quantification of left ventricular global and segmental strain.
- **Benefits:**
  - Offers advanced industry pioneered speckle tracking algorithm for quantifying myocardial deformation
  - Works seamlessly - integrated ejection fraction calculation
  - Supports Adult and Pediatric TTE and Adult TEE images
  - Provides time savings via automatic selection of the appropriate 4-chamber, 2-chamber and APLAX images for analysis
  - DICOM support. Assessment of the left ventricle ejection fraction also on data sets acquired on other vendors' systems



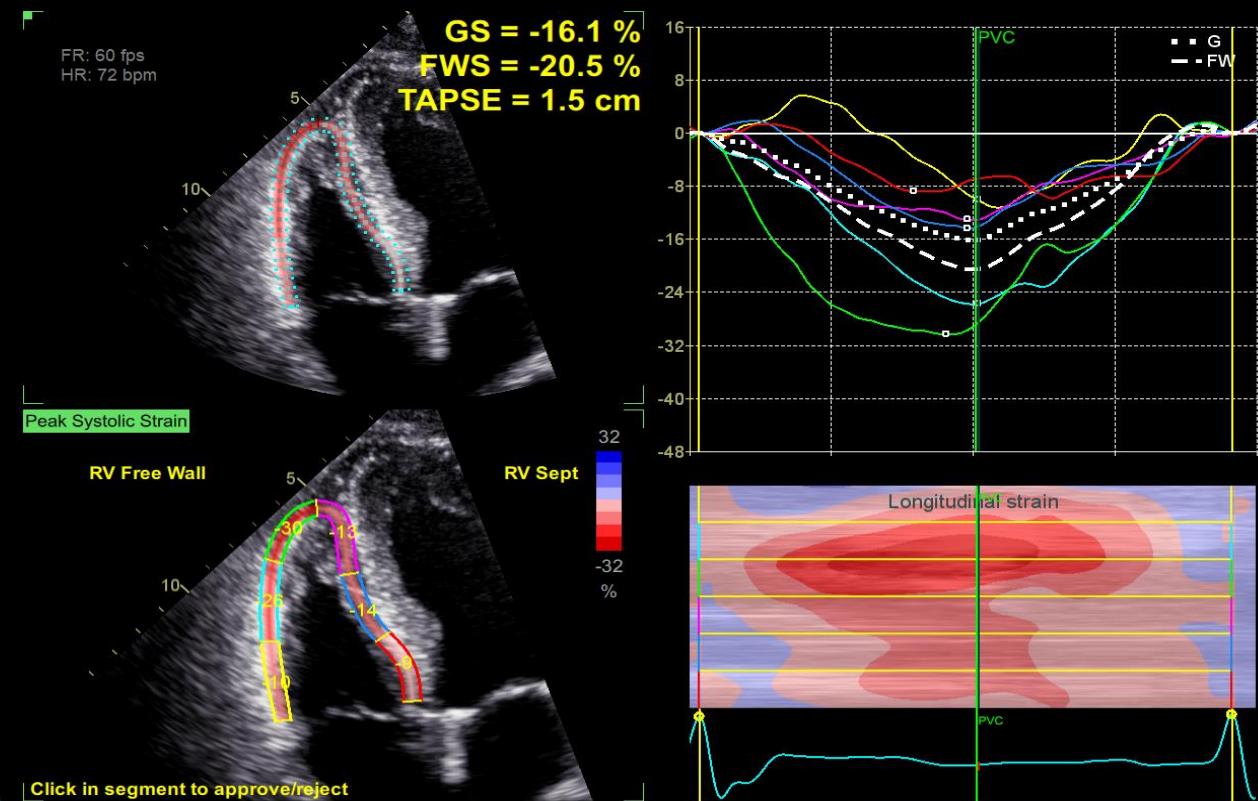
- AFI LA Strain is a novel method to assess the left atrial function allowing global strain to be measured using speckle tracking echocardiography.
- **Benefits:**
  - Offers Vivid renown AFI user interface and workflow allowing users to easily adopt
  - Supports left atrium strain, volumes and emptying fraction measurements
  - Follows the 2018 EACVI-ASE Strain Standardized Task Force guidelines <sup>1</sup>
  - Supports left atrium images also from previous releases



1. Standardization of left atrial, right ventricular, and right atrial deformation imaging using two-dimensional speckle tracking echocardiography: a consensus document of the EACVI/ASE/Industry Task Force to standardize deformation imaging. Badano et al. European Heart Journal - Cardiovascular Imaging (2018) 0, 1–10 doi:10.1093/ehjci/jey042

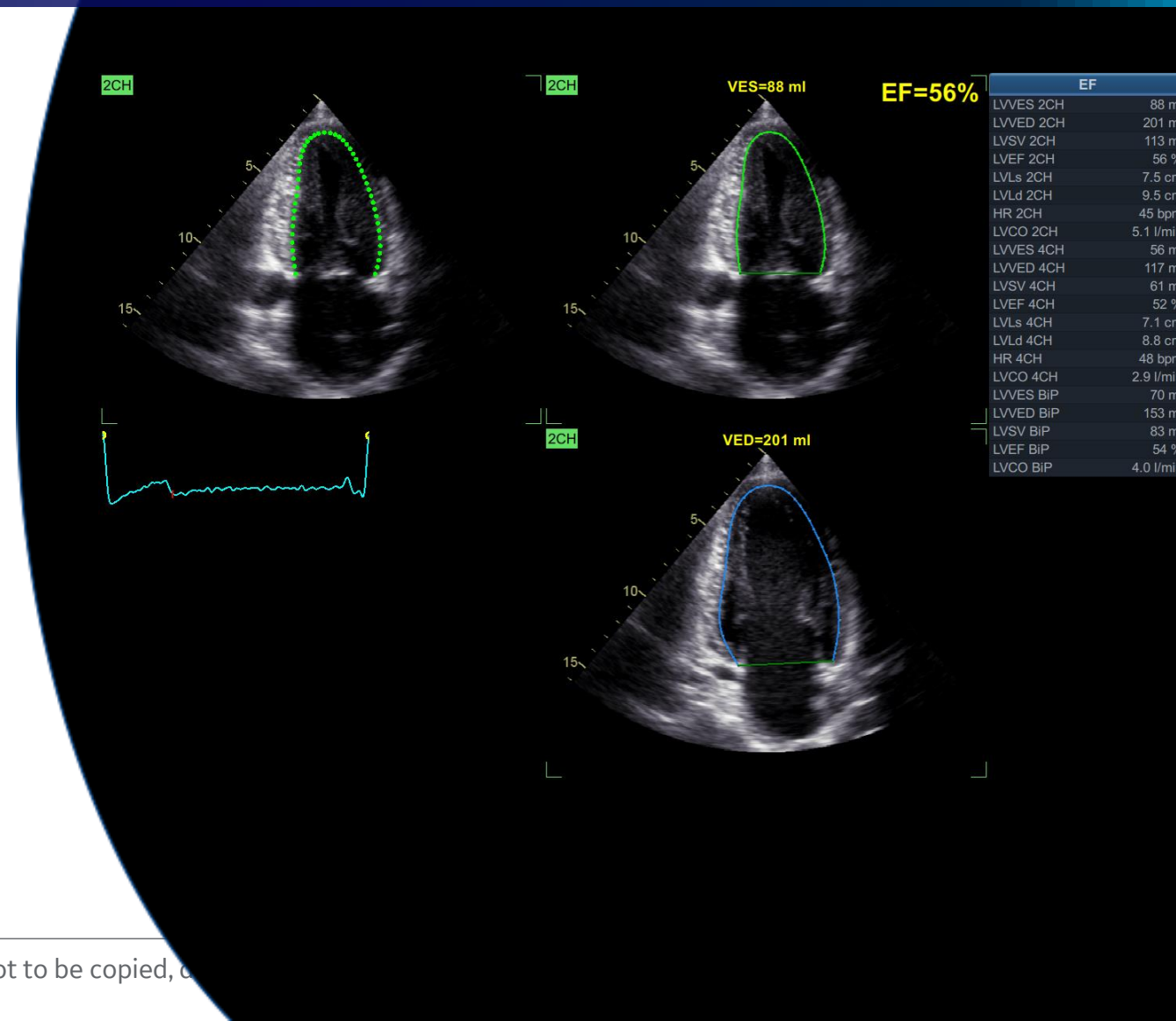


- AFI RV is a novel tool to assess the right ventricular function by advanced speckle tracking echocardiography.
- **Benefits:**
  - Offers renown Vivid AFI user interface and workflow to allow current and new users easy adoption
  - Supports right ventricle free wall strain, global strain and Tricuspid Annular Plane Systolic Excursion (TAPSE)
  - Follows the 2018 EACVI-ASE Strain Standardized Task Force guidelines <sup>1</sup>
  - Supports right ventricle images also from previous releases



1. Standardization of left atrial, right ventricular, and right atrial deformation imaging using two-dimensional speckle tracking echocardiography: a consensus document of the EACVI/ASE/Industry Task Force to standardize deformation imaging. Badano et al. European Heart Journal - Cardiovascular Imaging (2018) 0, 1–10 doi:10.1093/ehjci/jej042

- Powered by AI-based View Recognition, Auto EF provides semi-automated quantification of left ventricular volumes and ejection fraction.
- **Benefits:**
  - Achieves fast measurements of ejection fraction
  - DICOM support. Assessment of the left ventricle ejection fraction also on data sets acquired on other vendors' systems



Home

Productivity  
diagnosis

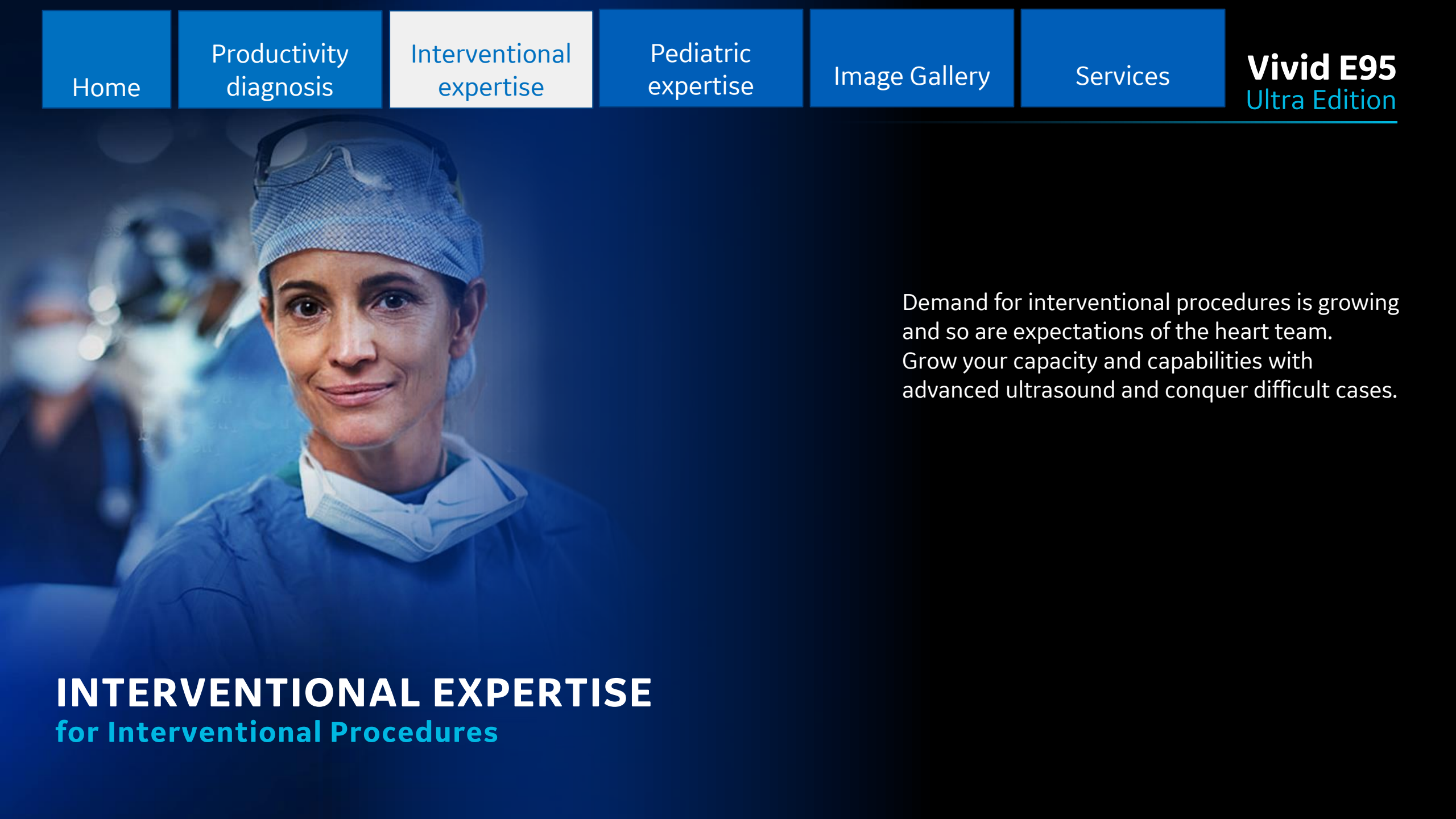
Interventional  
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Demand for interventional procedures is growing and so are expectations of the heart team. Grow your capacity and capabilities with advanced ultrasound and conquer difficult cases.

**INTERVENTIONAL EXPERTISE**  
for Interventional Procedures

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## Interventional

General improvement of the workflow and 4D heart visualization.

NEW

4D Auto TVQ : Innovative semi-automatic quantification of the tricuspid valve in 4D.

NEW

HD Color : Rendering technique for photo-realistic light-source based illumination of heart structures.

NEW

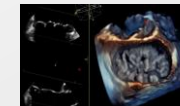
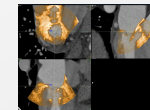
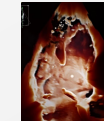
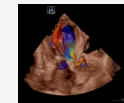
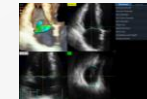
Flexilight : 4D color flow rendering technique for semi-transparent visualization of origin and size of high velocity jets.

Up icon

CT Fusion : Vendor independent solution for live co-registered navigation in 4D ultrasound and CT data.

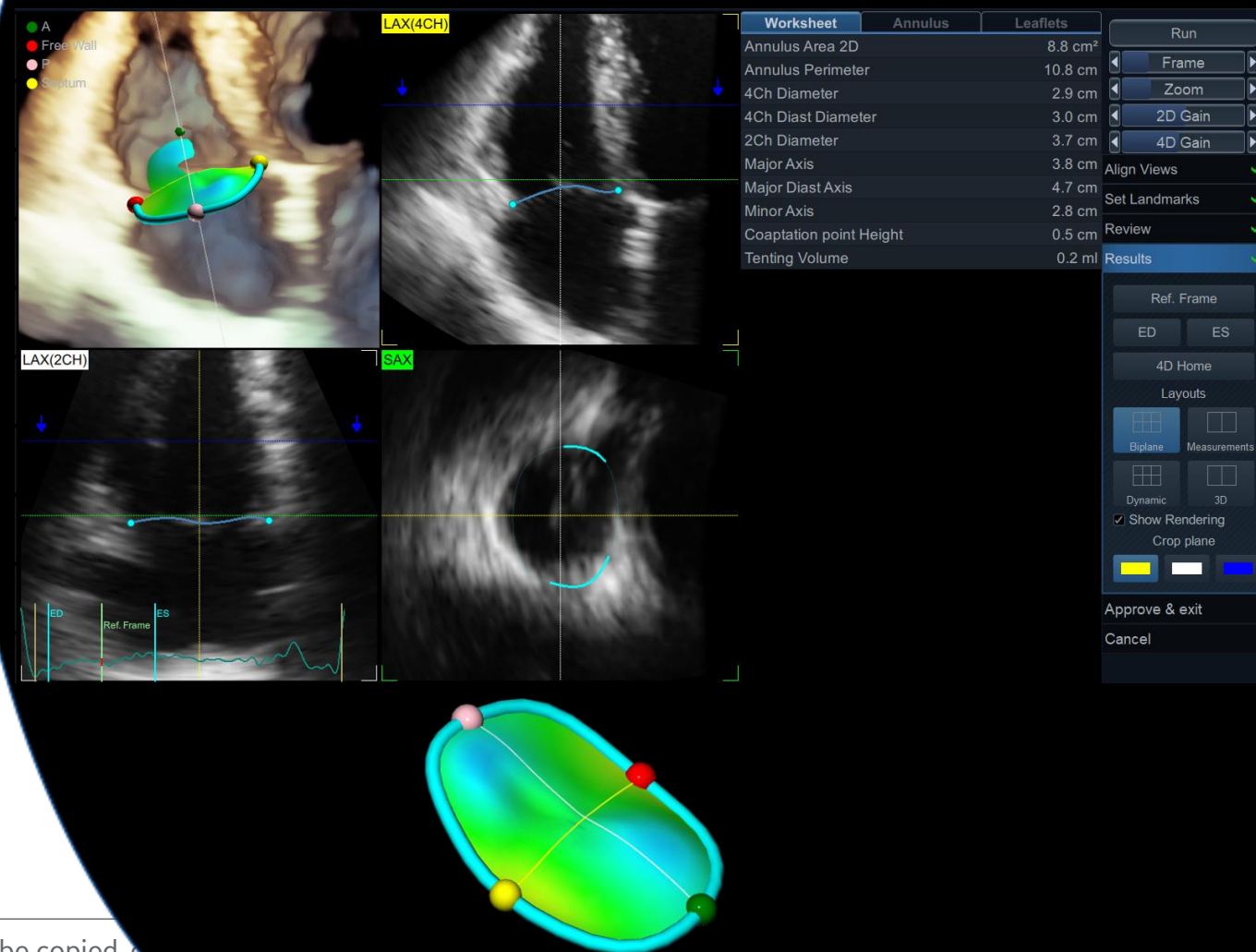
Up icon

4D markers : Make annotations that are viewable from all angles on 4D ultrasound volume data sets and their 2D views, facilitating communication in the echo lab, cath lab and OR.

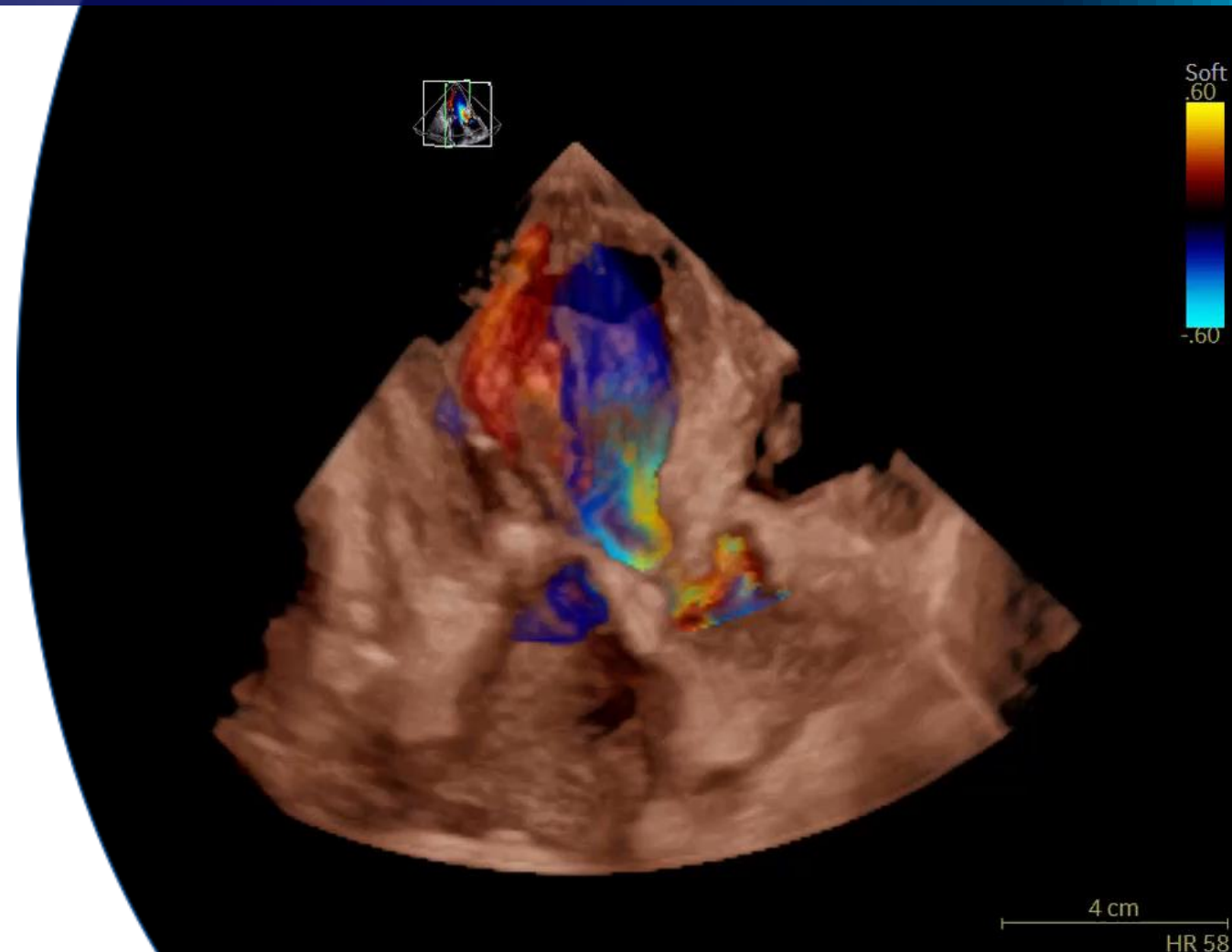


# 4D Auto TVQ

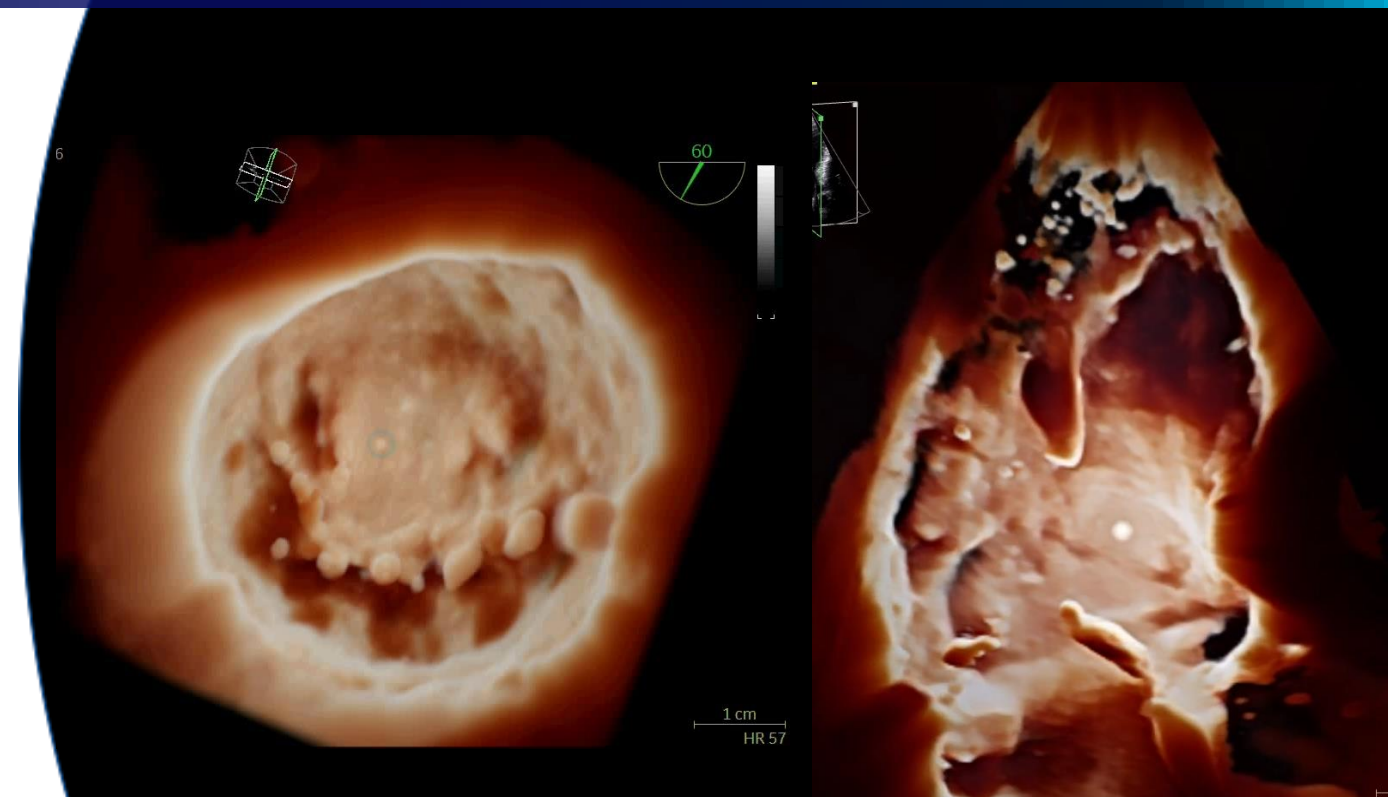
- Semi-automated 4D tool enables fast visualization and quantification of the tricuspid valve anatomy.
- **Benefits:**
  - Supports TEE and TTE
  - Offers renown Vivid 4D quantification user interface and workflow
  - Handles the 3D shape of the tricuspid valve and provides 15 static and dynamic measurements
  - Provides a cost-effective alternative to traditional tricuspid annulus assessment
  - Supports 4D data also from previous releases



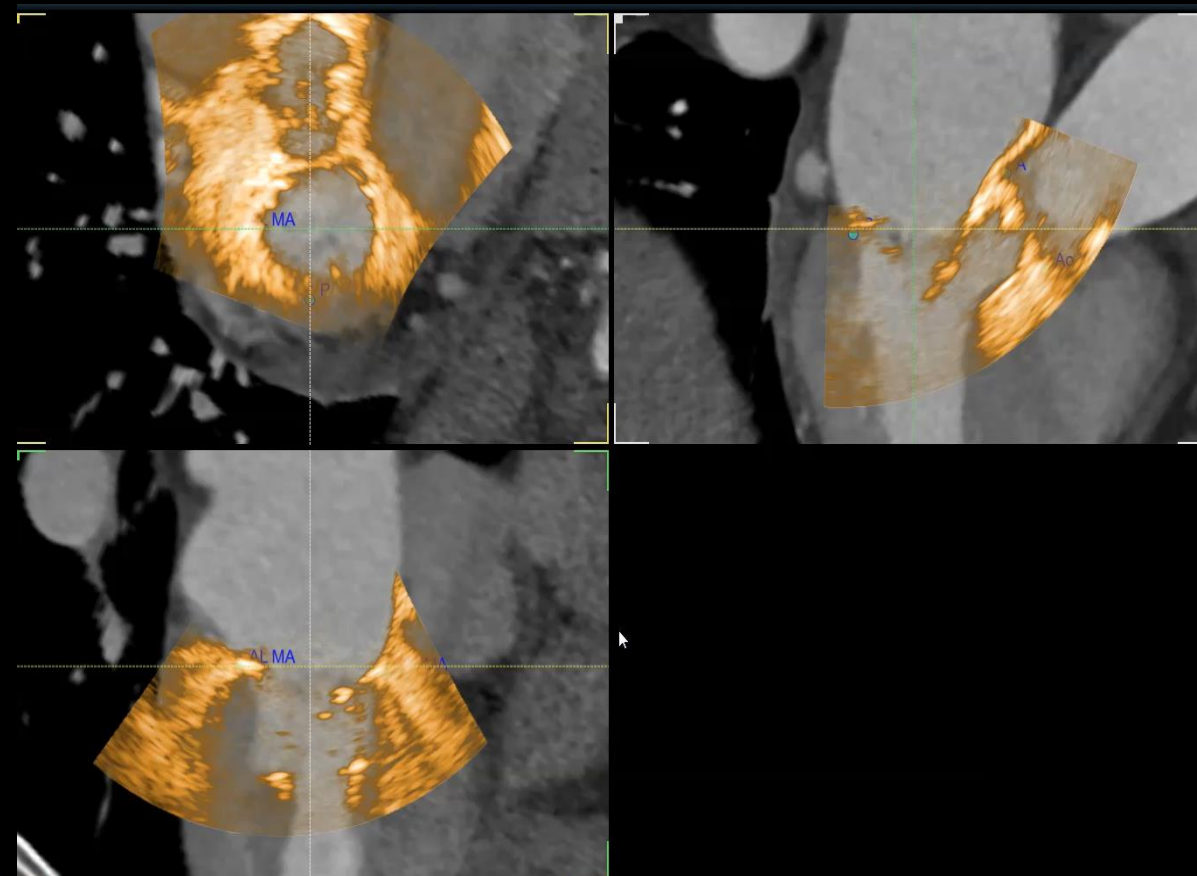
- 4D color flow rendering technique for semi-transparent visualization of origin and size of high velocity jets.
- **Benefits:**
  - Enhance spatial relationships between flow and the surrounding structures
  - Suppress non-diagnostic low flow information
  - Work seamlessly with other visualization techniques such as FlexiLight and 4D markers
  - Supports 4D color flow data also from previous releases



- Rendering technique for photo-realistic light-source based illumination of heart structures.
- **Benefits:**
  - Comprehensive visualization of leaflets, trabeculae, regurgitant orifices, clefts, aneurisms and thrombi
  - Works seamlessly with other visualization techniques such as HD Color, 2ClickCrop and 4D markers
  - Supports 4D data also from previous releases



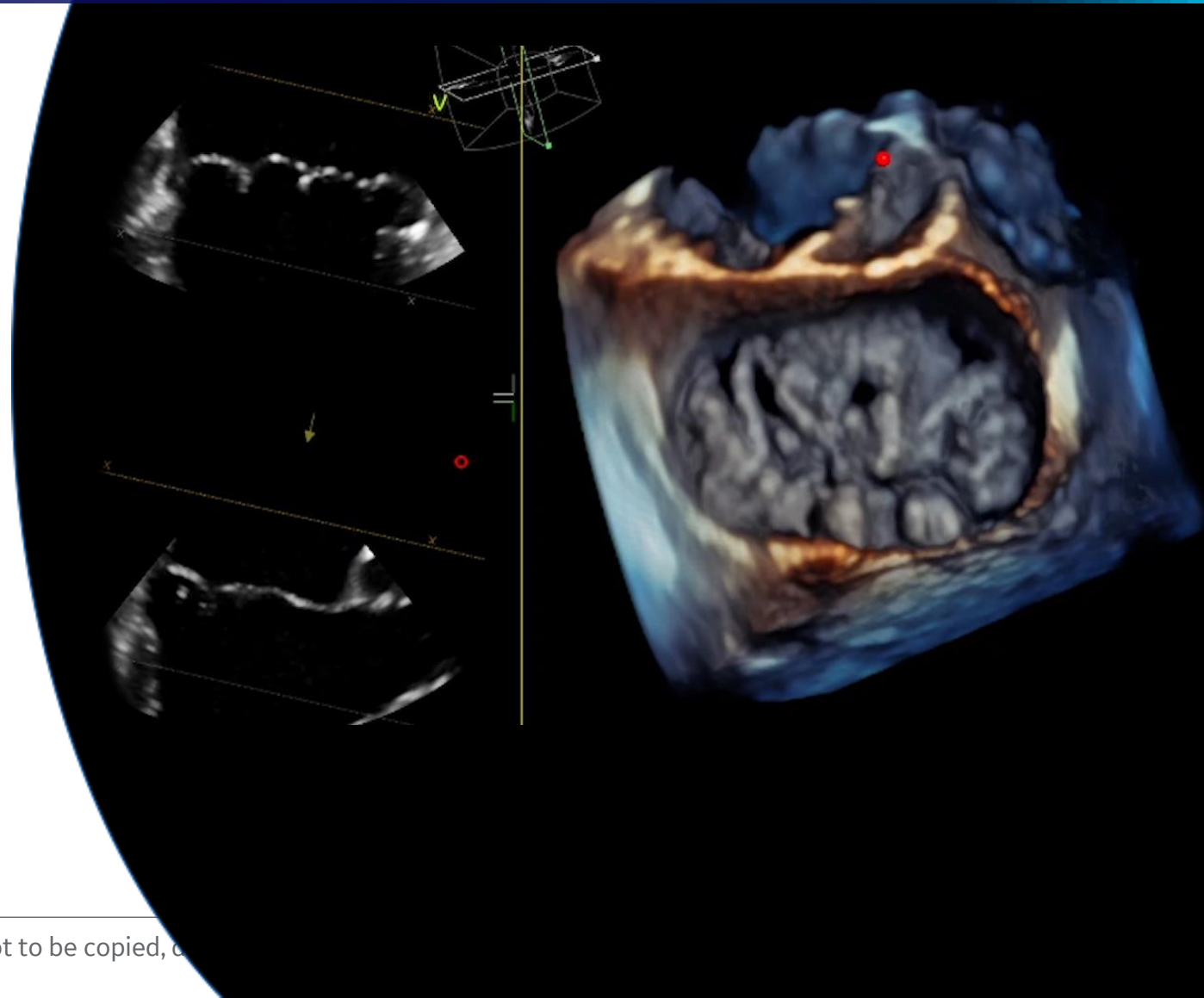
- Cost effective and vendor independent solution for live co-registered navigation in 4D ultrasound and CT data.
- **Benefits:**
  - Improve awareness of calcified structures by fusing CT with 4D ultrasound
  - Extend field-of-view beyond 4D ultrasound for better understanding of heart anatomy
  - Increase your confidence during procedures with the CT based pre-procedure plan
  - Enhance your team communication





# 4D Markers

Make annotations that are viewable from all angles on 4D ultrasound volume data sets and their 2D views, facilitating communication in the echo lab, cath lab and OR.



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The smallest cardiac patients can pose the biggest care challenges with difficult to diagnose, severe conditions.

## **PEDIATRIC EXPERTISE** for Pediatric 4D Imaging

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## Pediatrics

Help clearly visualize small anatomies

NEW

6VC-D : a lightweight single probe solution that provides excellent 2D and 4D imaging.



NEW

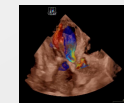
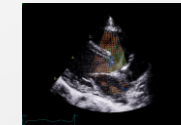
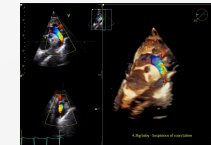
Flexilight : 4D color flow rendering technique for semi-transparent visualization of origin and size of high velocity jets.

Icon up

BSI 2.0 (Blood Speckle Imaging) Left ventricle vortex formation and size can be analyzed with BSI and has the potential to complement existing parameters of cardiac health.

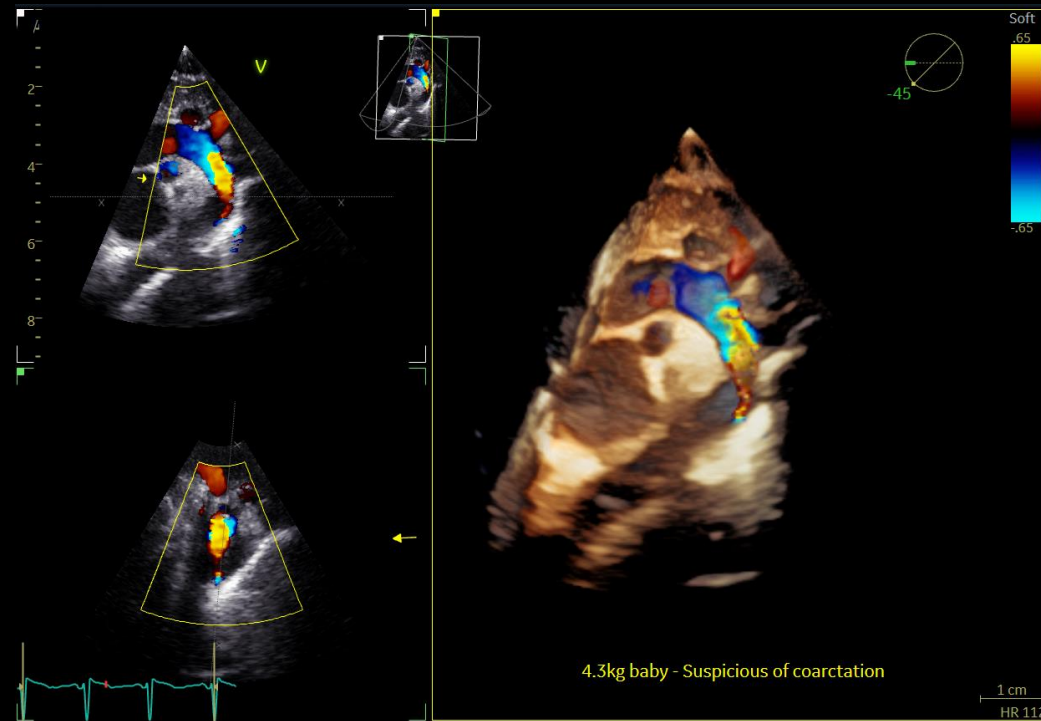
NEW

HD Color : Rendering technique for photo-realistic light-source based illumination of heart structures.

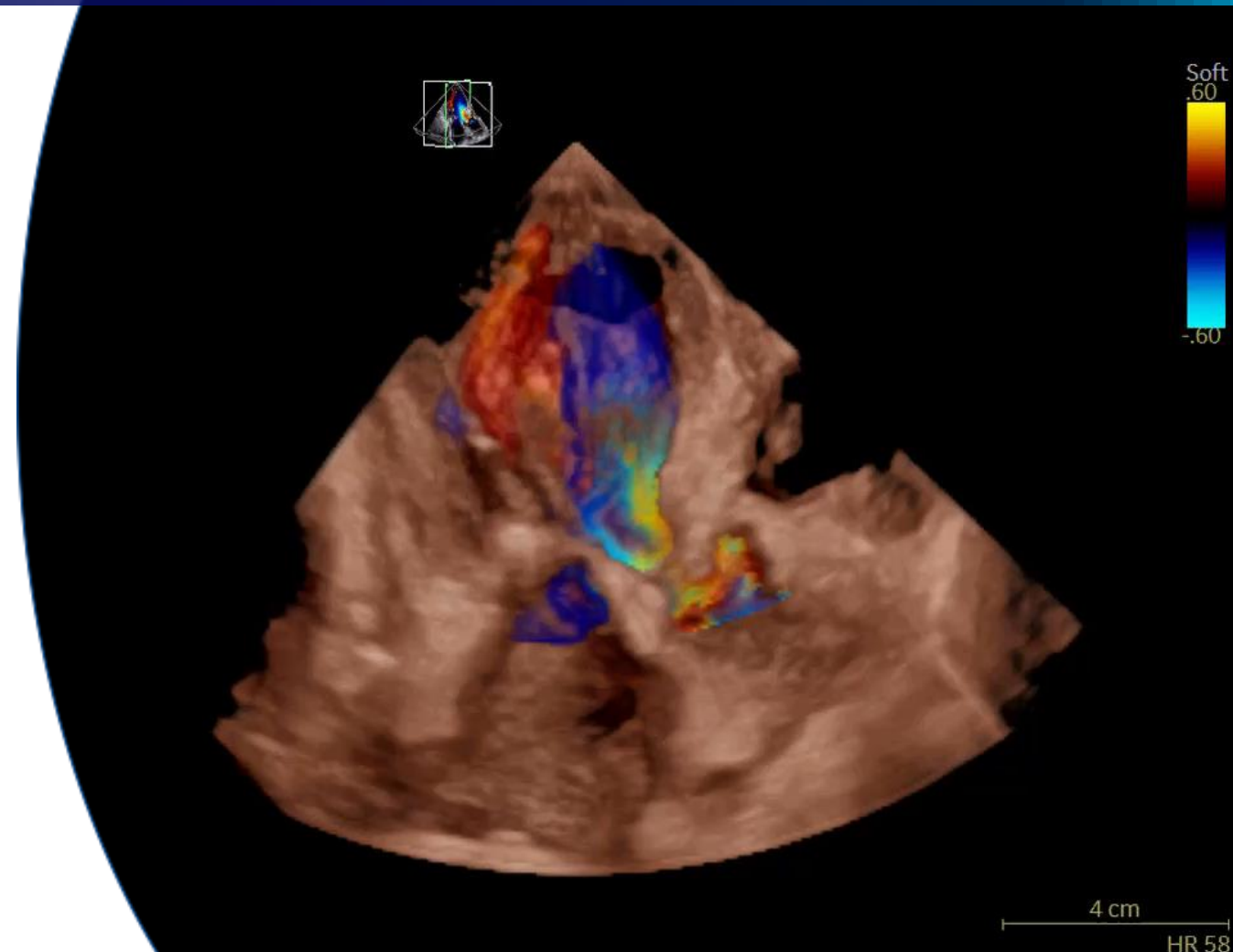


## Introducing the new 4D TTE pediatric probe

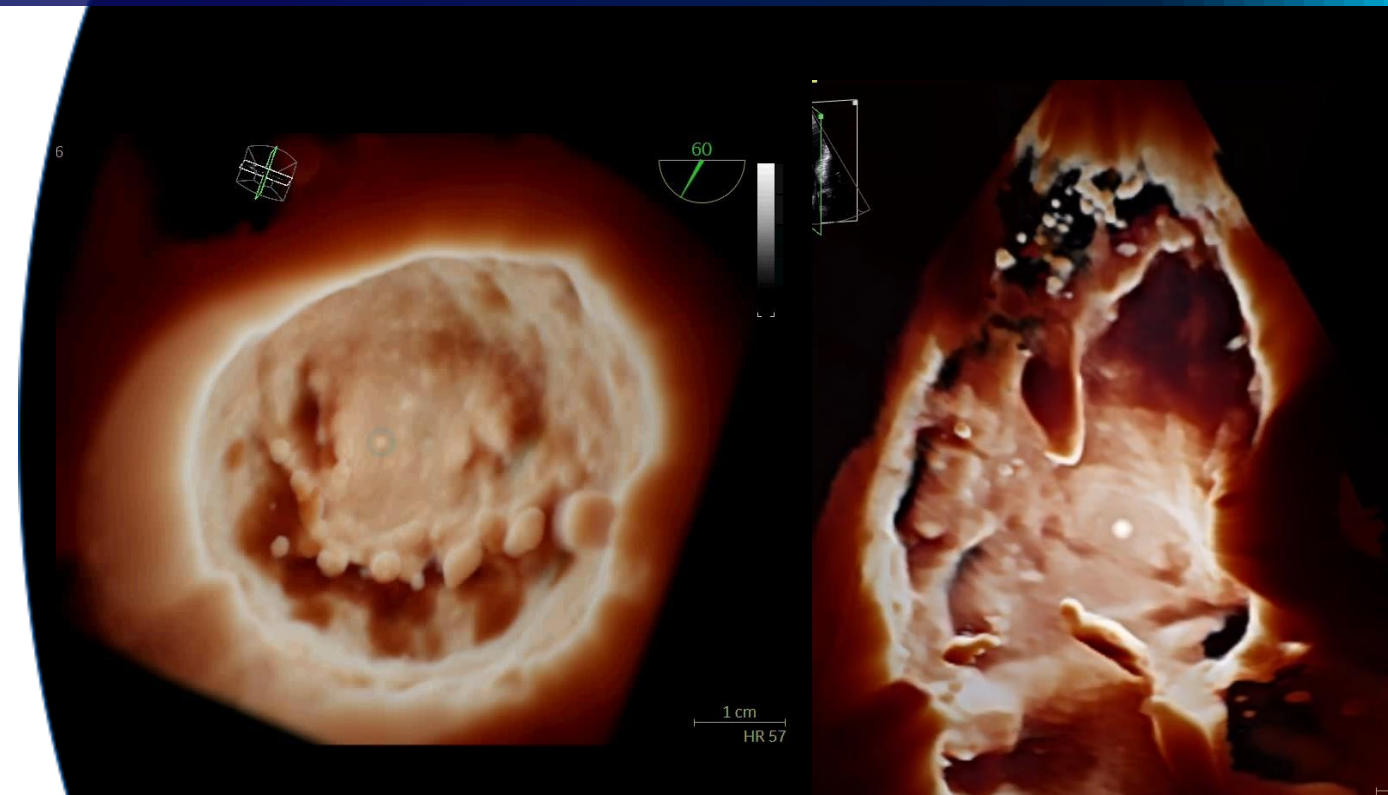
6Vc-D – a lightweight single probe solution that provides excellent 2D and 4D imaging.



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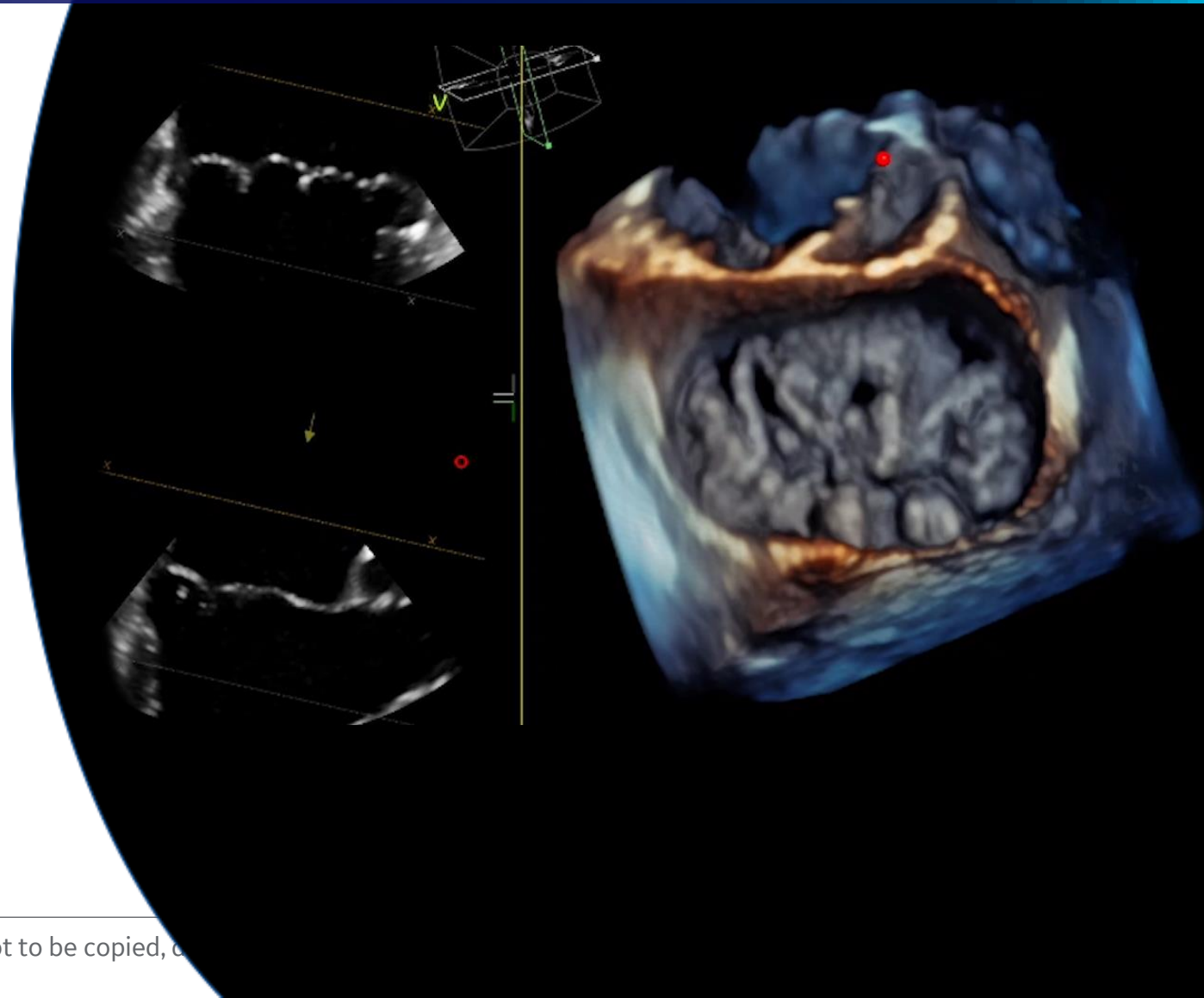


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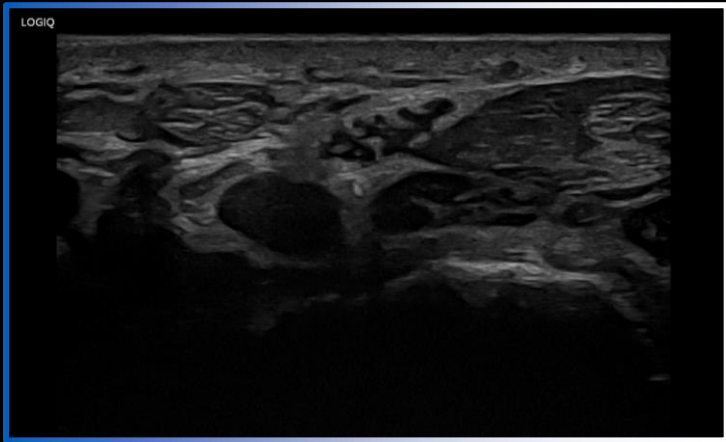
LOGIQ E10

**Approach By Care Area**

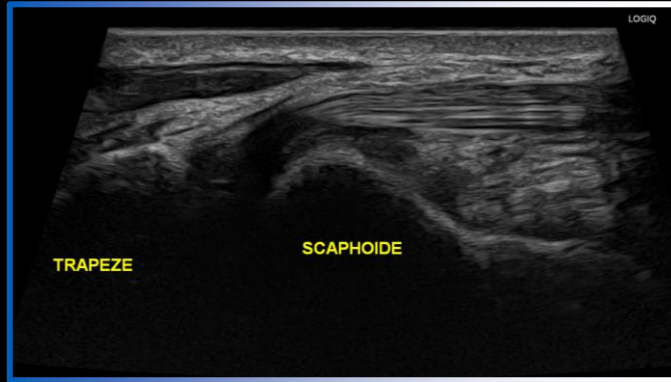
# Adult echocardiography

Approach By Care Area

# Interventional



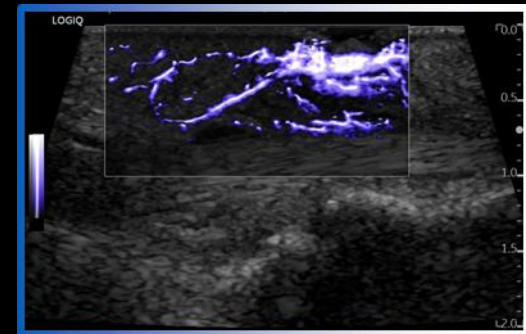
Median Nerve, L6-24-D



Tendon fléchisseur radial du carpe, L6-24-D



Nerf interosseux posterieur extenseur de doigts, L6-24-D



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Approach By Care Area

# Pediatrics

