

PHILIPS

sense and simplicity

Philips CX50 CompactXtreme System

A New Class of Compact
Echocardiography



Insights from compact ultrasound users

Diagnostic confidence is paramount

- Ultrasound labs are busy and workflow efficiency is crucial
- Portable exams are becoming an ideal alternative to transporting very sick patients
- Ultrasound is becoming routinely used for interventional, triage and point of care services
- Maximum clinical performance is needed for critical diagnosis and guidance procedures

“While doing portable studies, I can’t always count on my smaller compact system when encountering difficult patients...I need to be able to make quick and confident diagnosis at the bedside for all my patients.”



CX50 CompactXtreme System

A new class of compact echocardiography

- Premium class technologies from cutting-edge Philips iE33 system now available in a compact portable design that maximizes diagnostic confidence at the bedside
- Increase utilization of echo by offering extended services beyond the traditional lab environment
- Optimize department efficiency and improve clinical workflow



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CX50 CompactXtreme System

Product overview

Premium PureWave Performance

Maximize diagnostic certainty

Extreme Mobility

Take ultrasound to the patient

Breakthrough Workflow Solutions

Improve exam efficiency

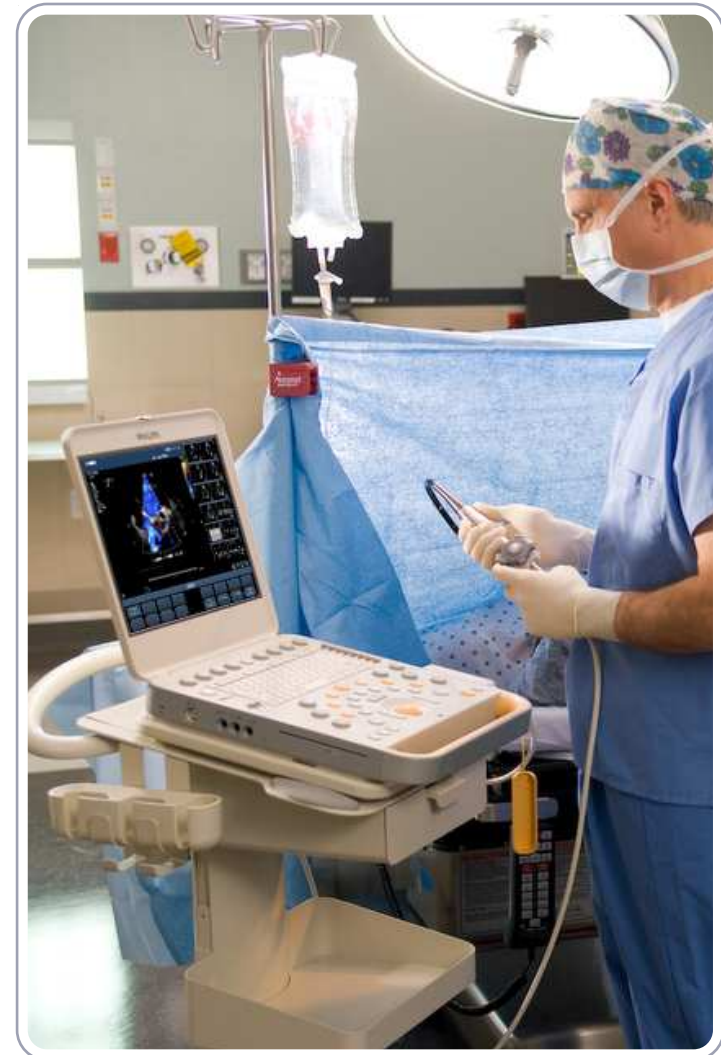


CX50 CompactXtreme System

Product overview

Premium PureWave Performance
Maximize diagnostic certainty

- Take “big system” class performance and features to the patient
- Make critical diagnosis and clinical decisions with confidence – even on technically difficult patients
- Reduce repeat exams or equivocal findings due to performance typical of earlier generation compact systems



CX50 CompactXtreme System

Product overview

Premium PureWave Performance
Maximize diagnostic certainty



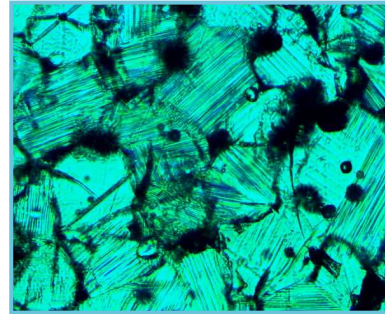
| Feature | Benefit |
|---|--|
| Transducers with PureWave crystal technology | Superb Image quality across a wide variety of patient types |
| Broadband digital beamformer | Premium class tissue differentiation |
| Next generation compact architecture with new high resolution A/D technology and 4X parallel processing | Premium level performance with breakthrough wide dynamic range, sensitivity and outstanding frame rate |
| XRES adaptive image processing | More tissue information with less artifacts |

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PureWave crystal technology goes portable

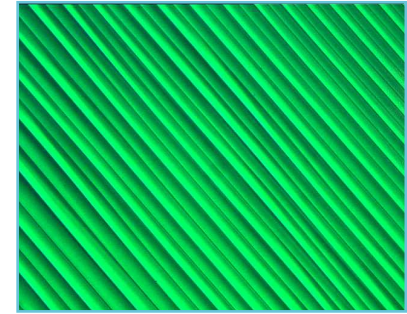
- Biggest breakthrough in transducer technology in 40 years
- Previously available only on premium Philips iE33 echo system
- Delivers better acoustic efficiency and sensitivity for superb image and Doppler performance on every patient
- Radical leap forward in compact image quality with improved delineation of endocardium and other fine cardiac structures

PZT Ceramics



Imperfect, multi-crystalline,
randomly orientated
grains

PureWave Crystals



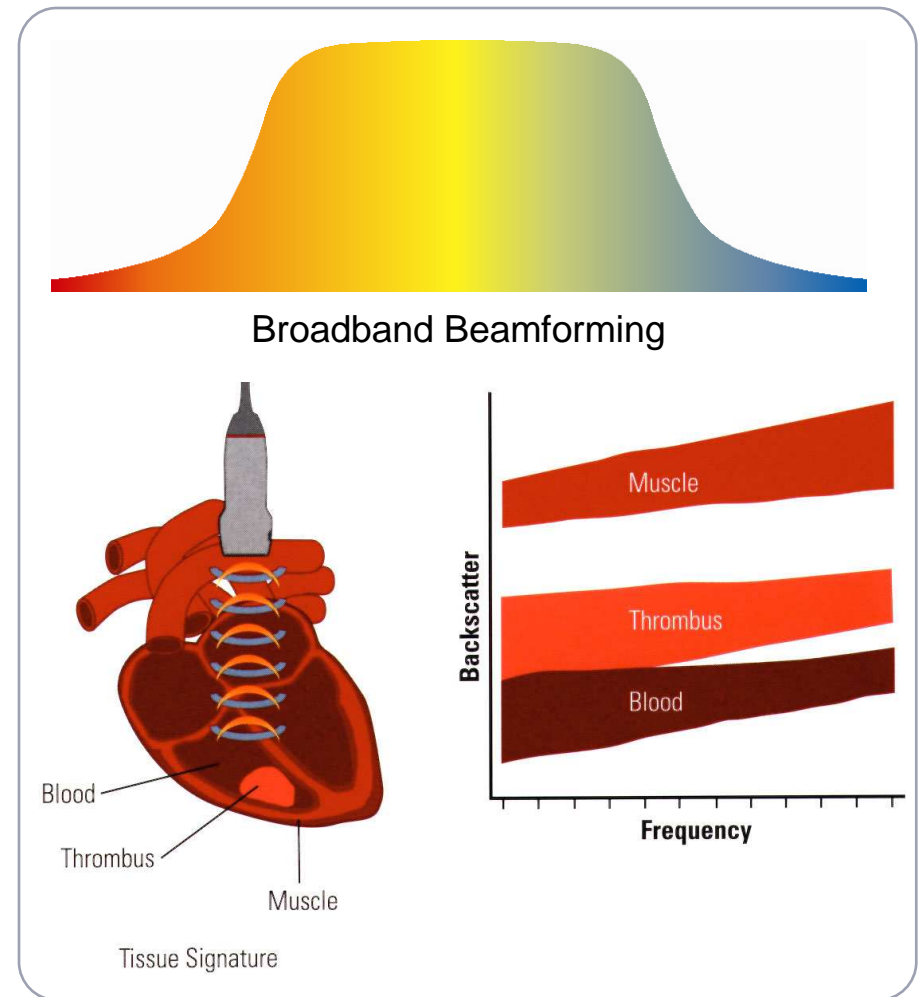
Perfect atomic level
arrangement,
uniform with no grain
boundaries

(MAGNIFICATION 800X)

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Digital broadband beamforming

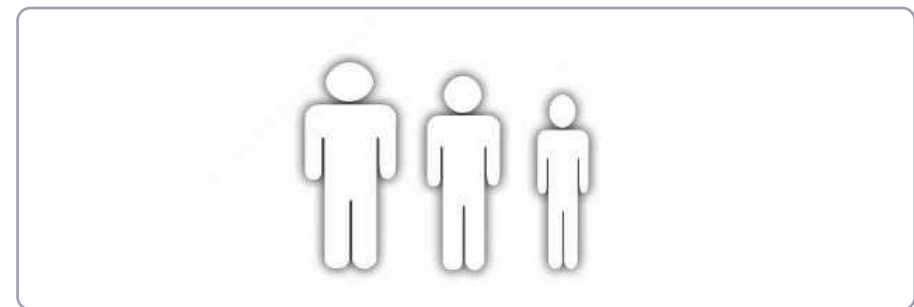
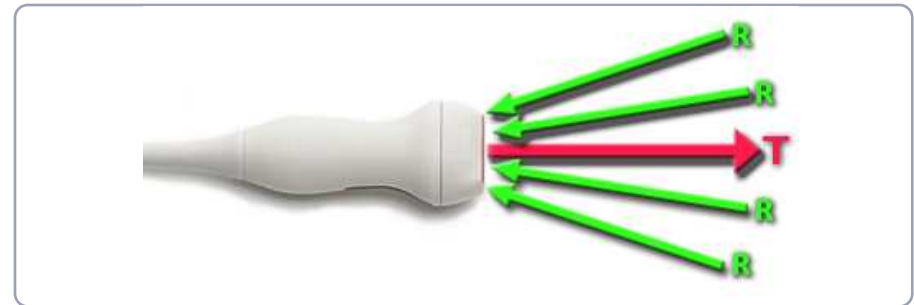
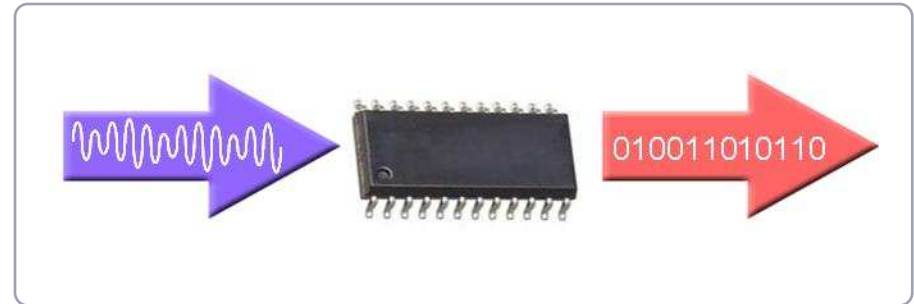
- Digital broadband beamforming utilizes the full range of acoustic frequencies to capture the entire tissue signature for better image definition-takes full advantage of increased broadband information from PureWave transducers
- All acoustic data is digitally preserved resulting in accurate and reproducible image formation for improved diagnostic confidence



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Next generation compact system architecture

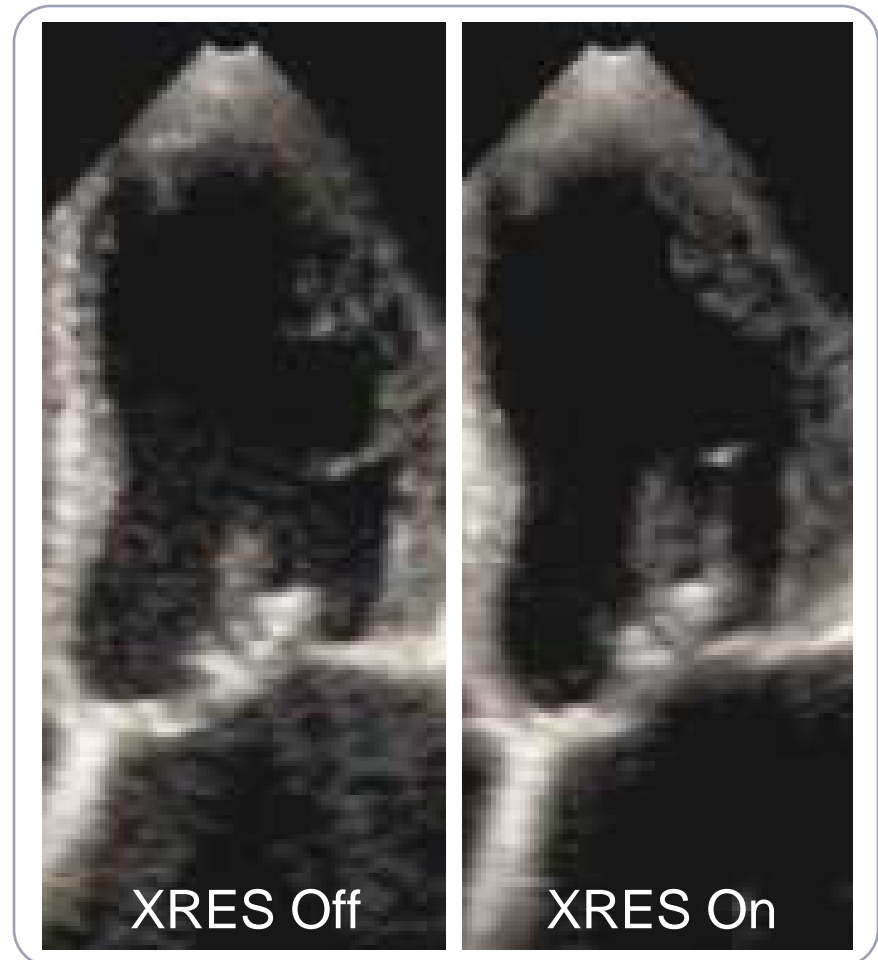
- Next generation high speed, high resolution analog to digital (A/D) conversion provides exceptional dynamic range for enhanced sensitivity and display characteristics
- 4X parallel processing allows fast frame rate for superb temporal resolution of moving structures and flow information
- Advanced broadband signal processing allows quick one-button system optimization for better clinical performance across various patient sizes



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XRES adaptive noise reduction

- Adaptive image processing, developed by Philips originally for MR, enhances subtle diagnostic information to overcome challenges in evaluating tissue and defining pathology.
- Provides real-time image enhancement using proprietary contextual algorithms that reduce speckle, haze and clutter resulting in images virtually free from noise with extraordinary clarity and edge definition.



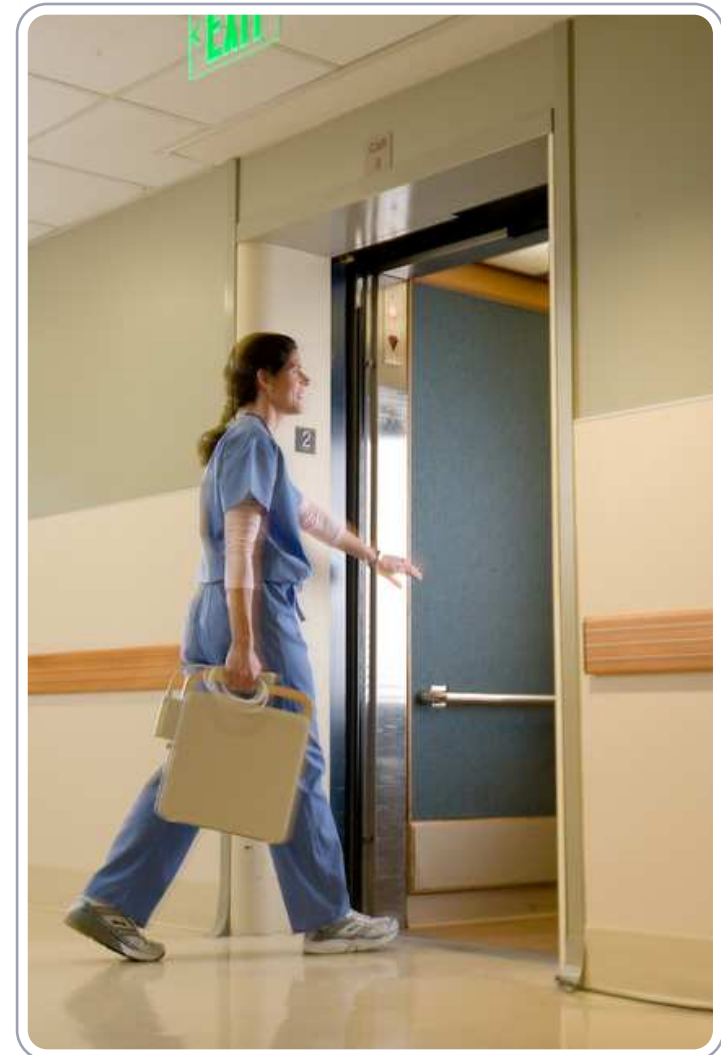
CX50 CompactXtreme System

Product overview

Extreme Mobility

Take ultrasound to the patient

- Easily transported to bedside, CCU and remote locations
- High resolution LCD allows optimal viewing in varied environments
- Fast boot-up saves time and allows the exam to begin quickly



CX50 CompactXtreme System

Product overview

Extreme Mobility

Take ultrasound to the patient

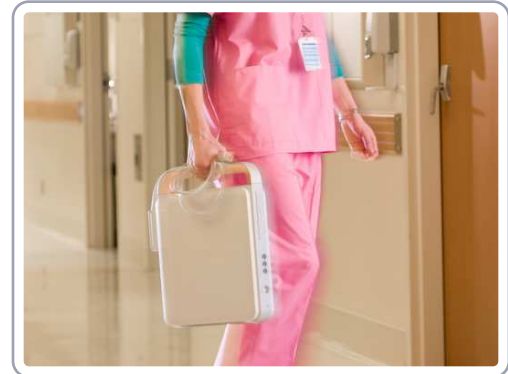


| Feature | Benefit |
|--|---|
| Lightweight design with built-in handle | Easily carried to bedside |
| Premium high contrast 15" LCD Display | Optimal viewing for portable environments |
| Fast system start-up | Less waiting to begin exam |
| Wireless DICOM communication | Flexible connectivity wherever you do exams |
| Available ergonomic cart and travel case | Versatile portable configurations allow maximum convenience anywhere you go |

CX50 CompactXtreme System

A wide range of portability options

- **On cart** – the CX50 system and cart allows easy mobility and effortless maneuverability throughout the hospital including confined areas like the OR, CCU and bedside
- **Hand carry** – with the CX50 system integrated handle you can navigate with a new level of utility carrying premium performance ultrasound directly to the patient
- **Remote travel** – use the convenient travel case to easily take the CX50 system and transducers to distant clinical locations

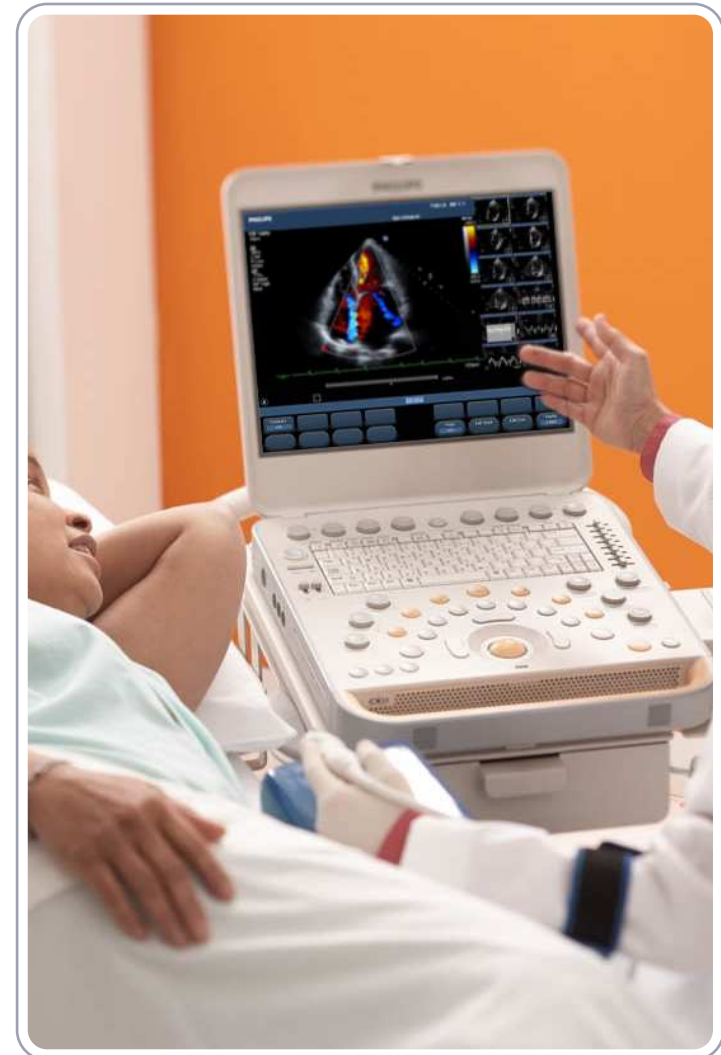


CX50 CompactXtreme System

Product overview

Breakthrough Workflow Solutions
Improve exam efficiency

- Quickly get the best image and Doppler data with iSCAN one-button optimization
- Active native data allows readjustment of 2D/Doppler technical parameters to enhance image data potentially reducing repeat studies
- Easily perform advanced echo analysis with integrated QLAB and stress echo capability



CX50 CompactXtreme System

Product overview

Breakthrough Workflow Solutions
Improve exam efficiency



| Feature | Benefit |
|---|---|
| Philips Common User Experience | Trackball centered user interface and quick keys for improved usability |
| iSCAN for 2D and Doppler | Quick one-button performance optimization during exams |
| Active Native Data | Fine tune images by adjusting virtually all scanning parameters on frozen or stored 2D and Doppler data |
| QLAB and user defined calculations and configurable reports | Advanced quantification that easily adapts to lab specific measurement and reporting requirements |

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Compact echo designed for your environment

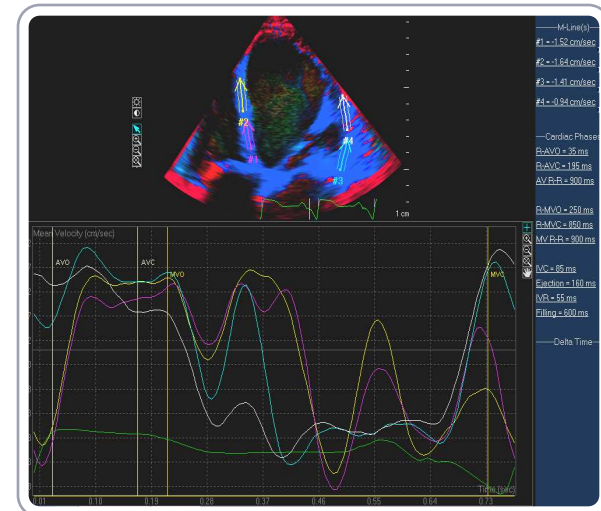
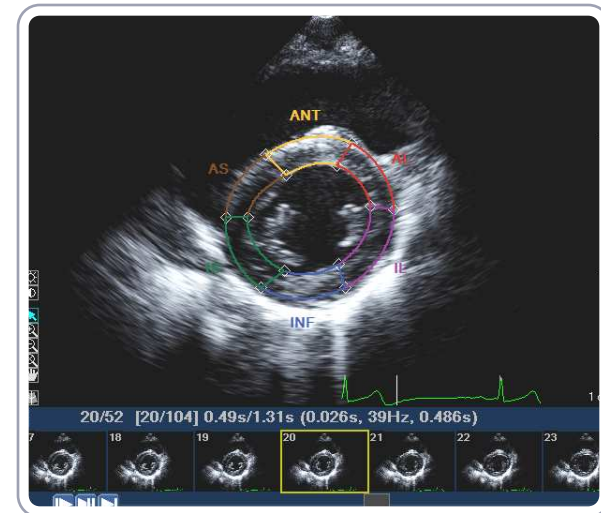
- **Easy** – the CX50 system is designed around the *Philips common user experience* that logically groups key functions around the trackball for easy access and improved usability across Philips ultrasound products
- **Quick** – one-button controls like *iSCAN* allow fast optimization of system performance during 2D and Doppler examinations while *active native data* gives you the ability to readjust virtually all scanning parameters during or after the exam enhancing diagnostic details and shortening exam times



CX50 CompactXtreme System

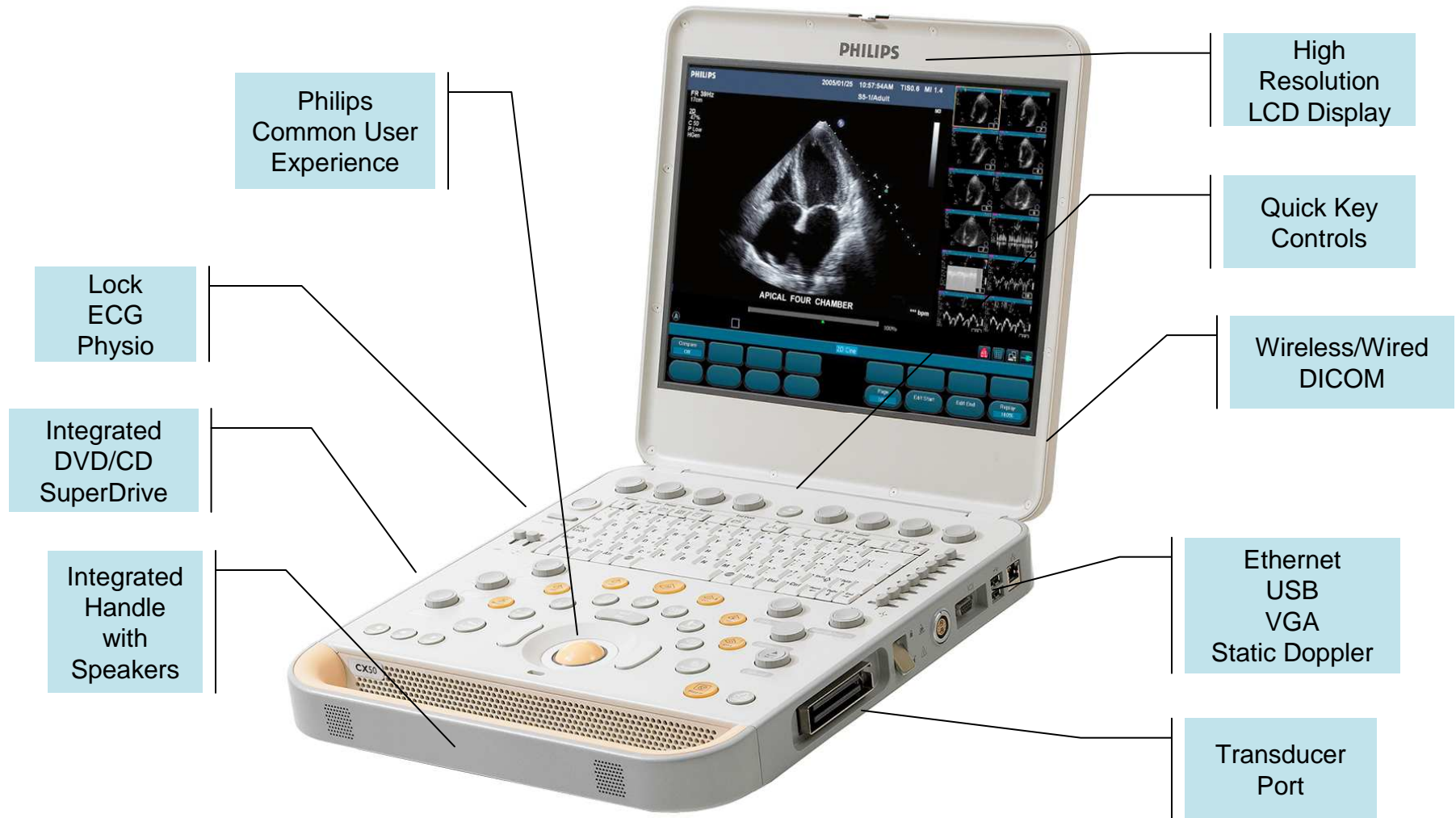
Compact echo designed for your environment

- **Advanced** – the CX50 system features QLAB quantification software that offers quantitative assessment of cardiac anatomy and function:
 - Tissue Motion Quantification (TMQ) using the latest speckle tracking technology for easy and precise cardiac motion analysis including functions like angular excursion, velocity, and regional shear
 - Strain Quantification (SQ) quantifies cardiac motion based on Tissue Doppler imaging data
 - Region of Interest (ROI) analysis with motion compensation allows pixel-based quantification of echo, color flow, TDI and CPA data



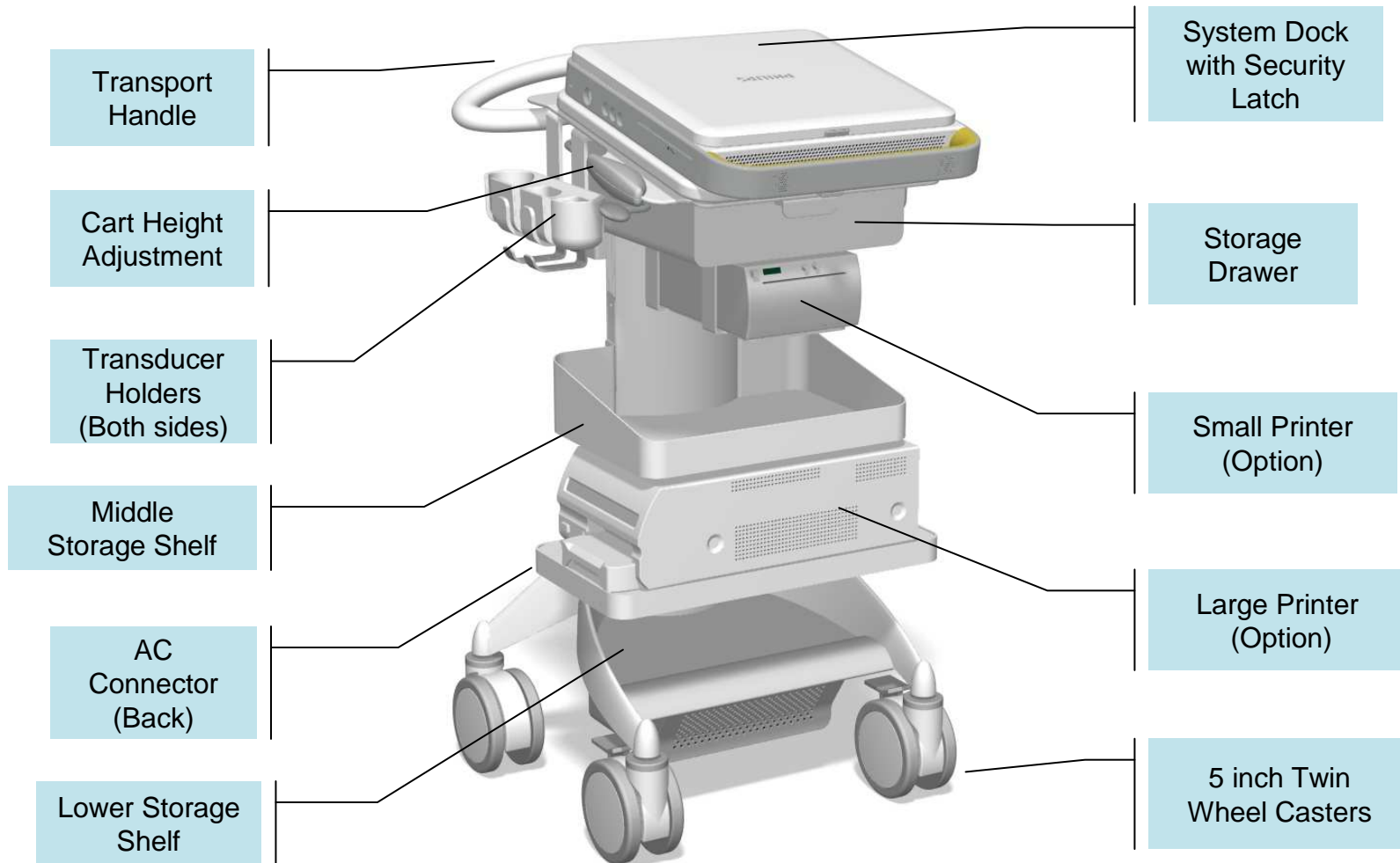
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Compact echo designed for your environment



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Compact echo designed for your environment





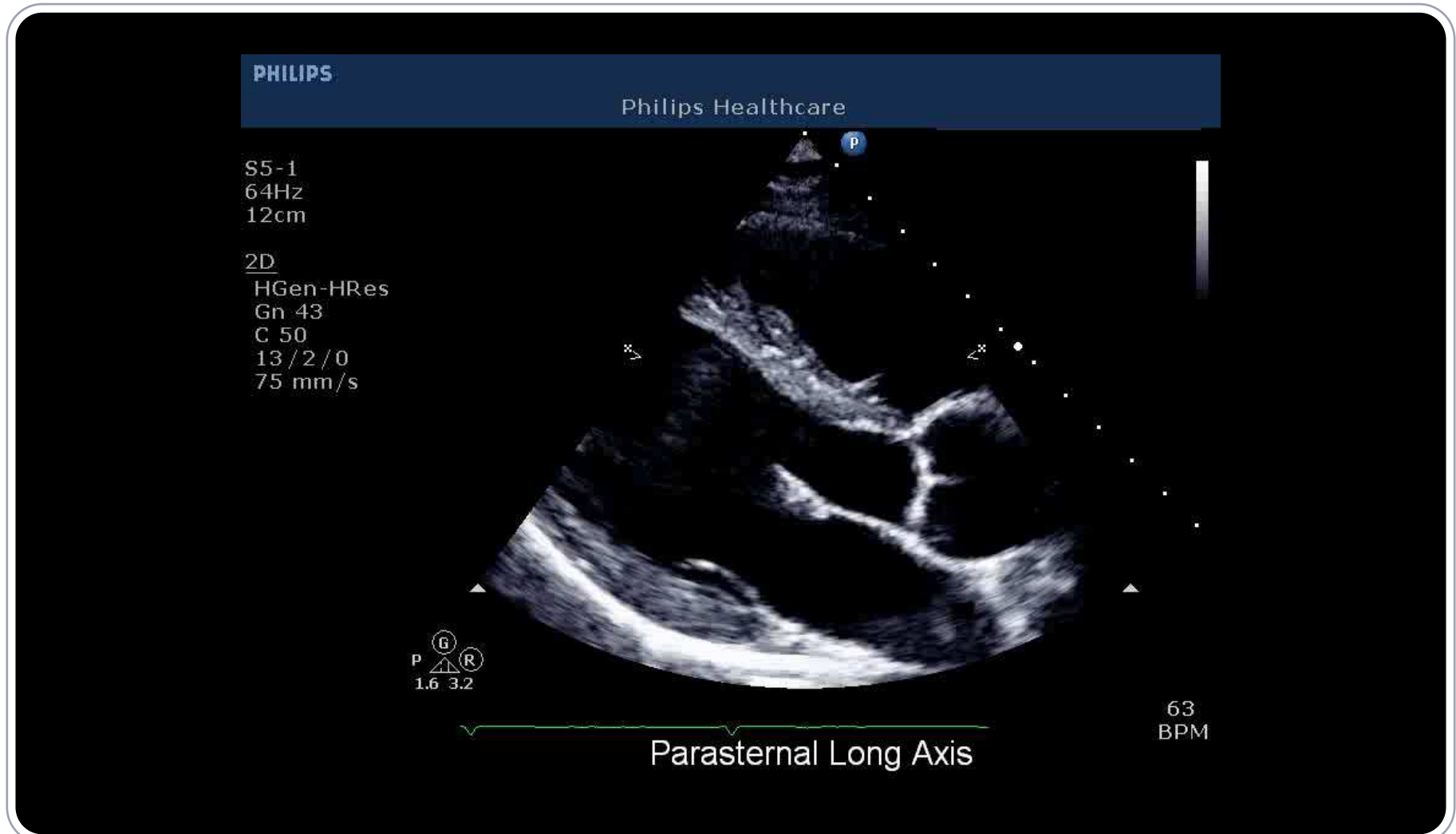
Catch the new wave
of compact echo

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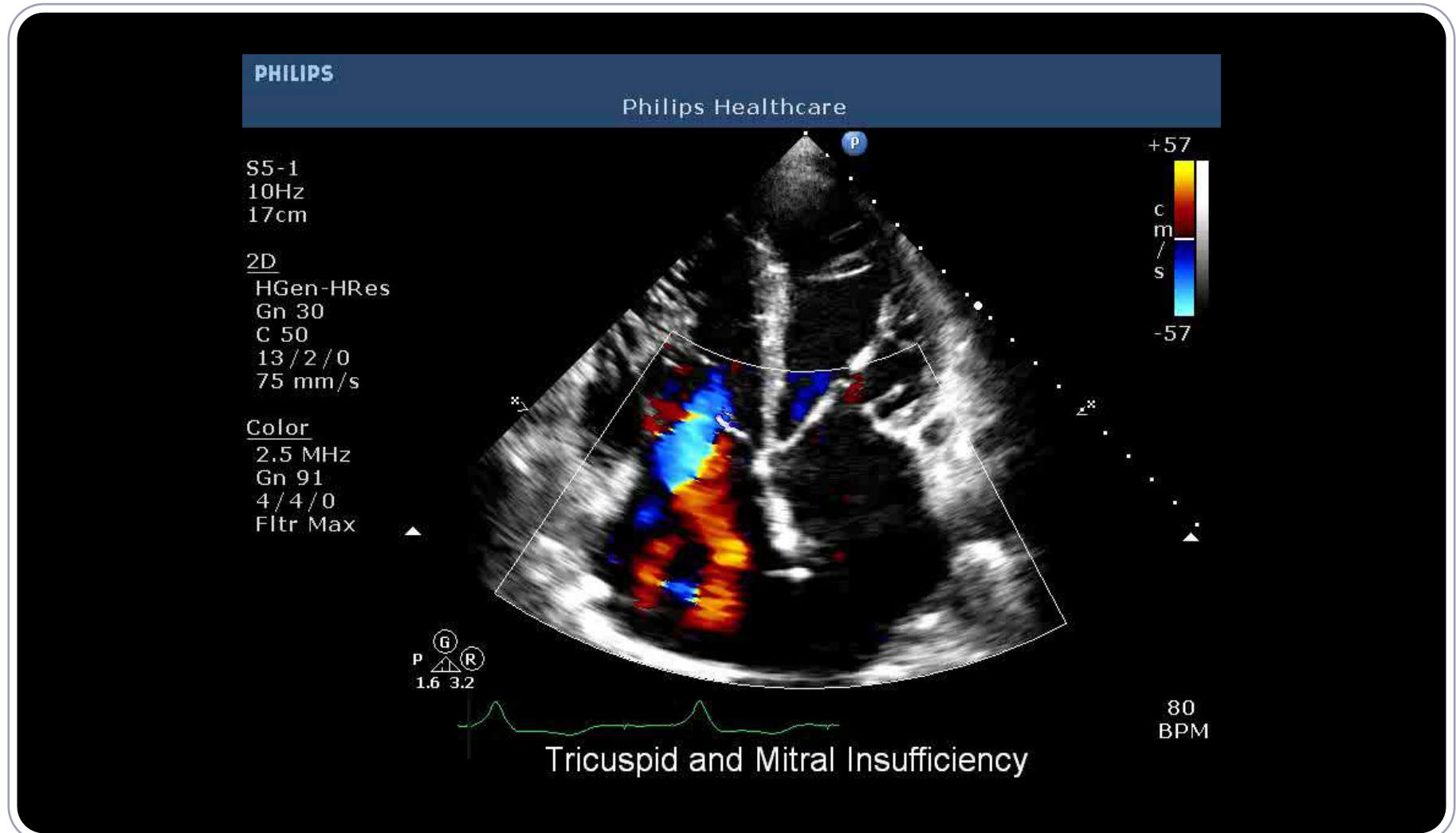
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Clinical performance



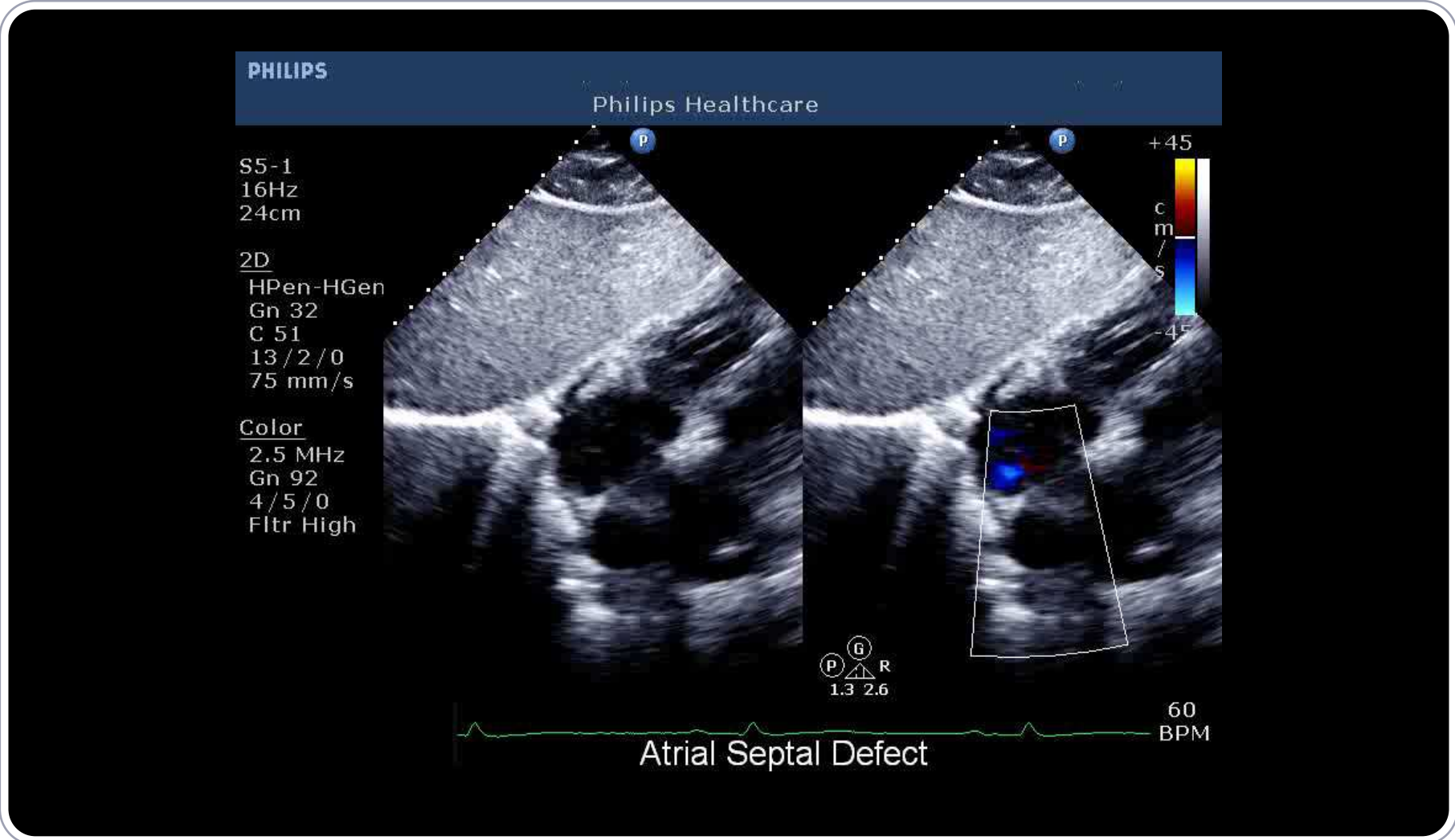
CX50 CompactXtreme System

Clinical performance



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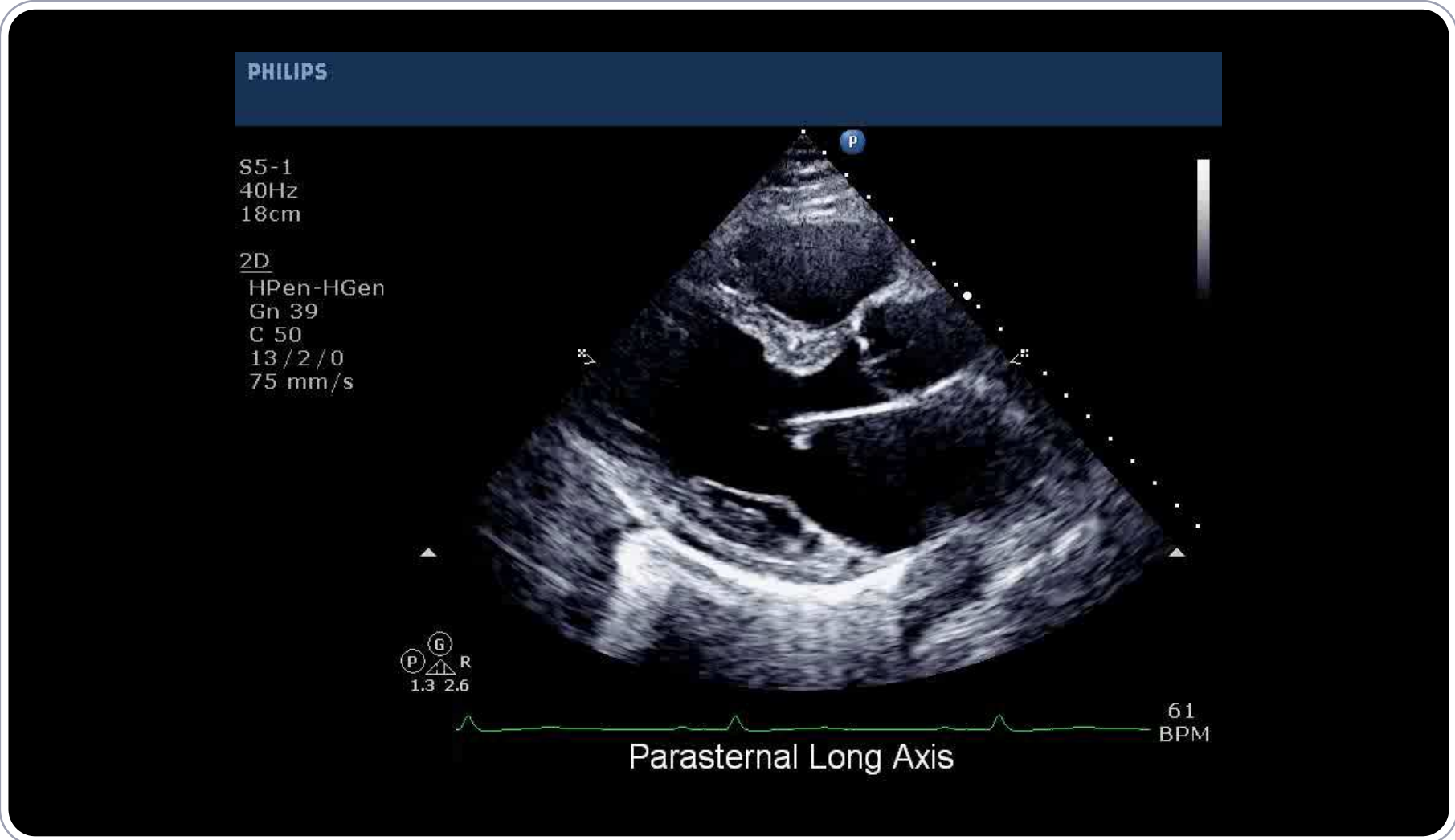
Clinical performance



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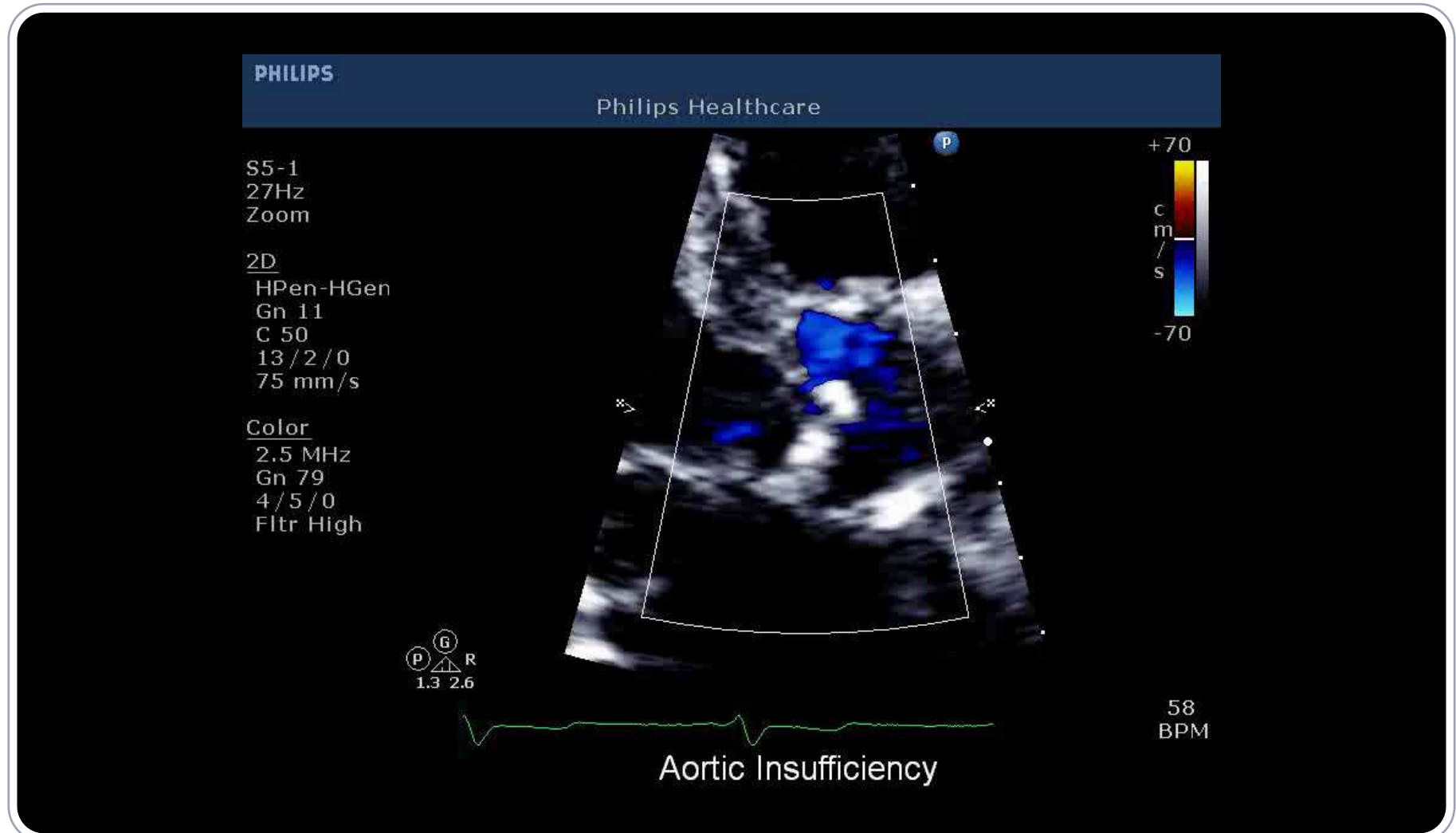
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Clinical performance



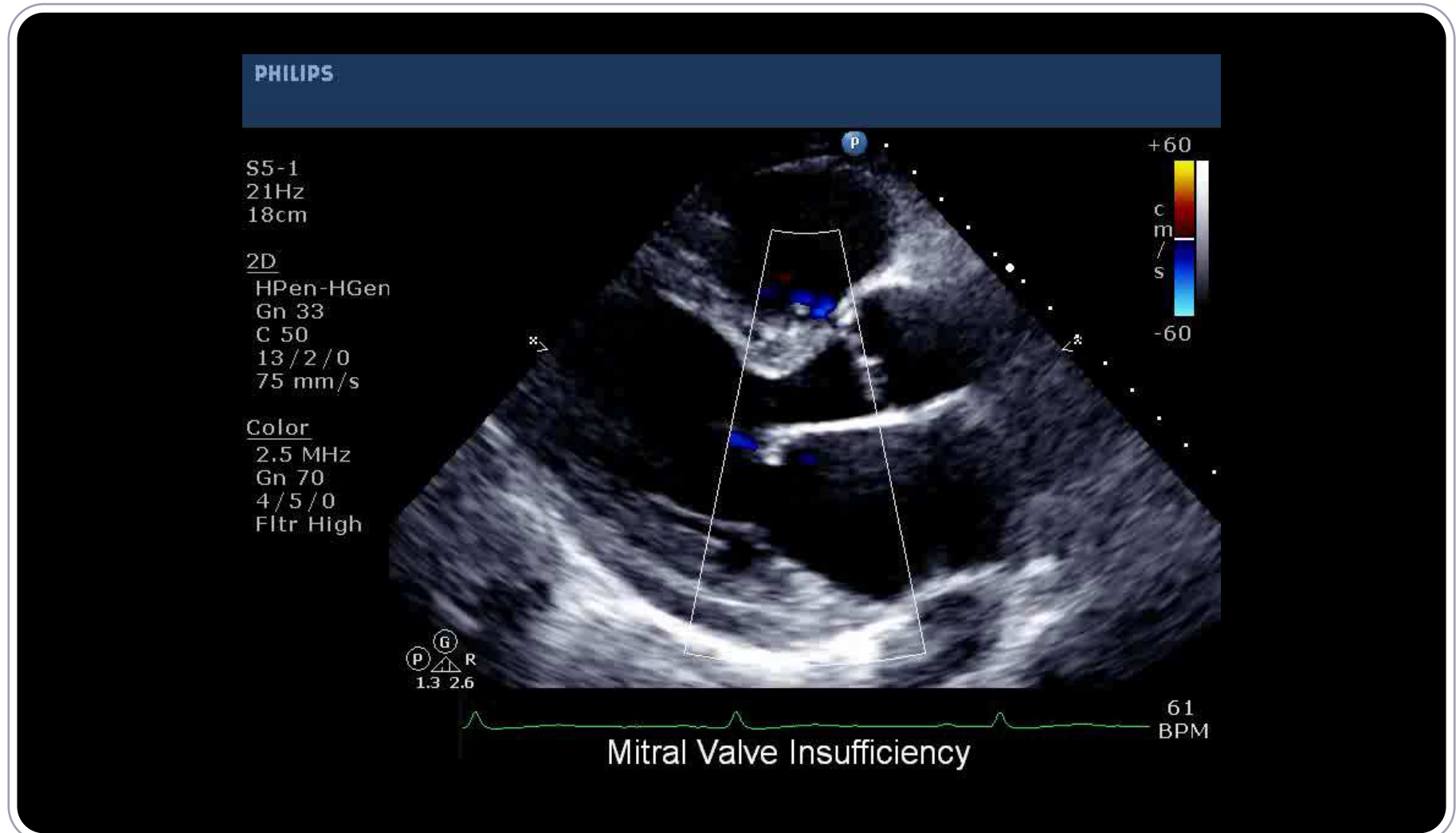
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Clinical performance



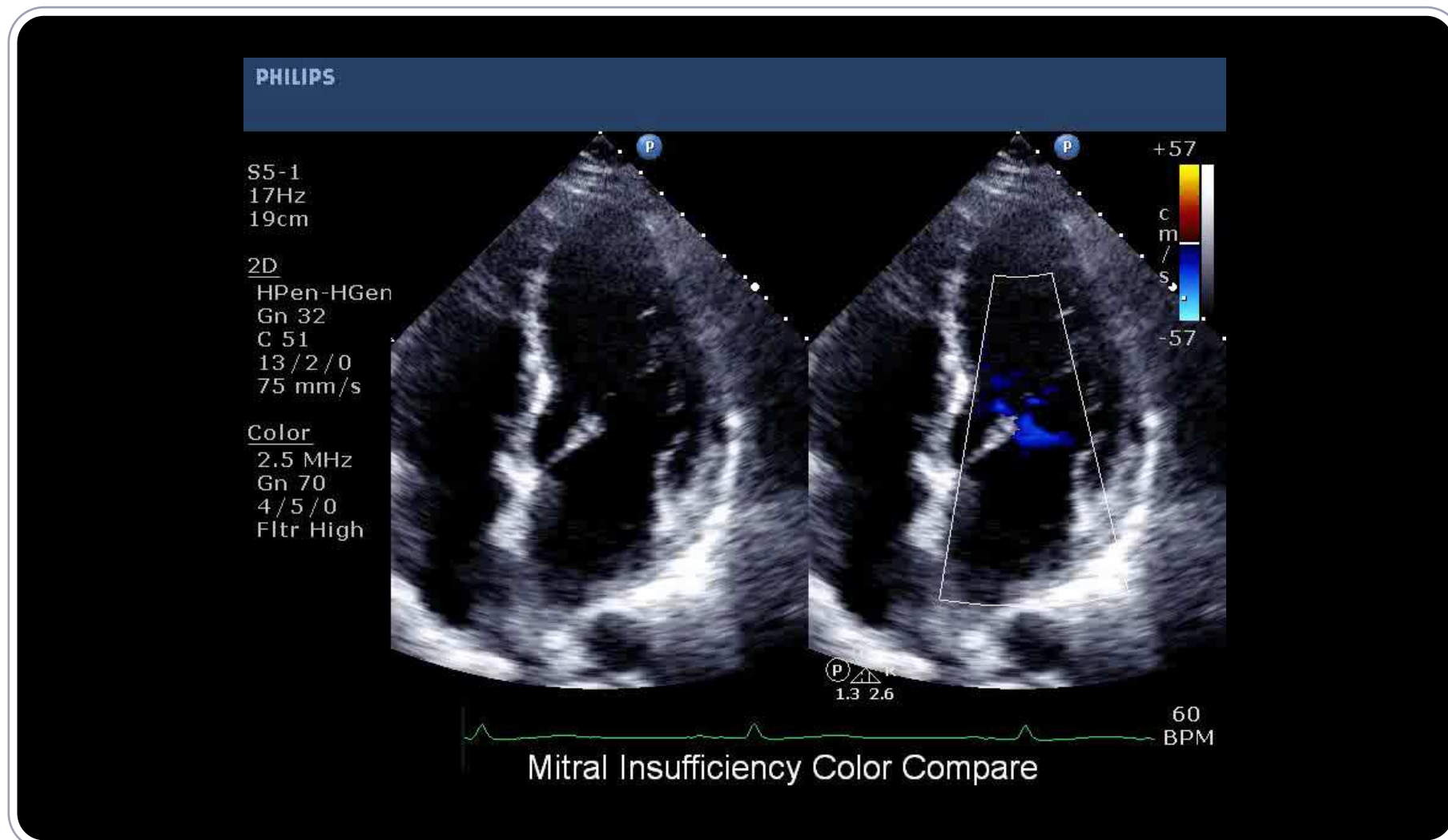
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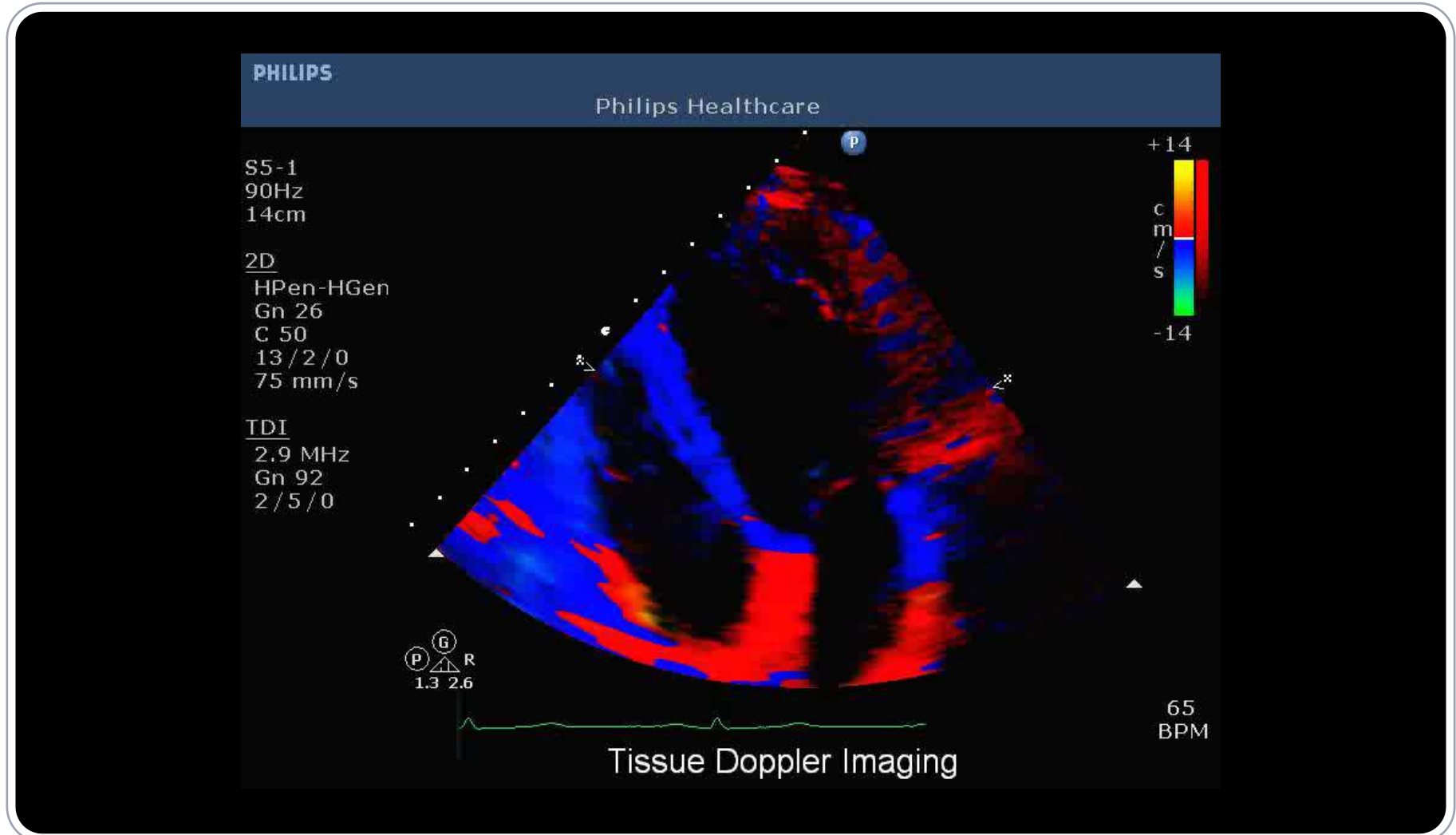
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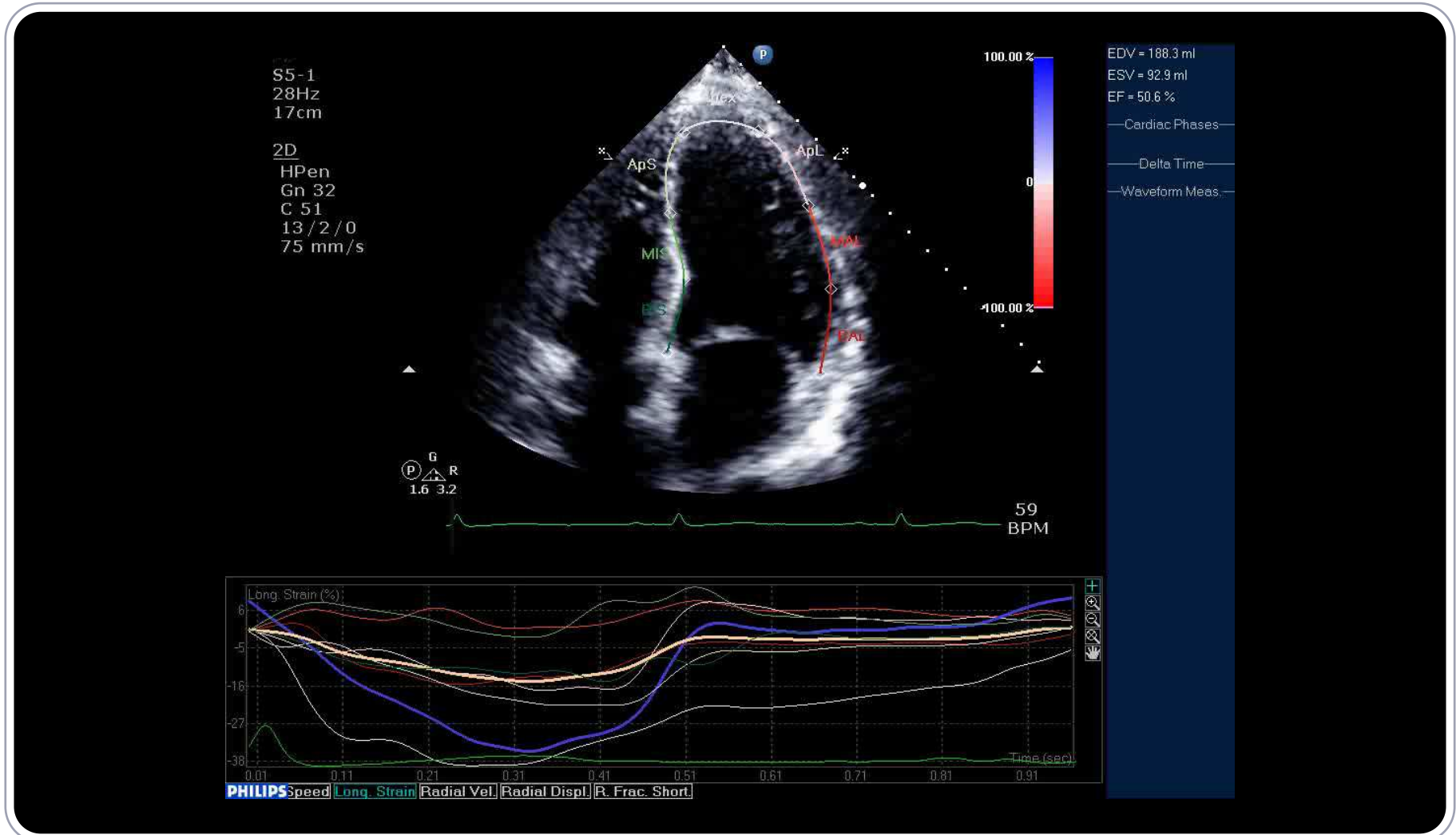
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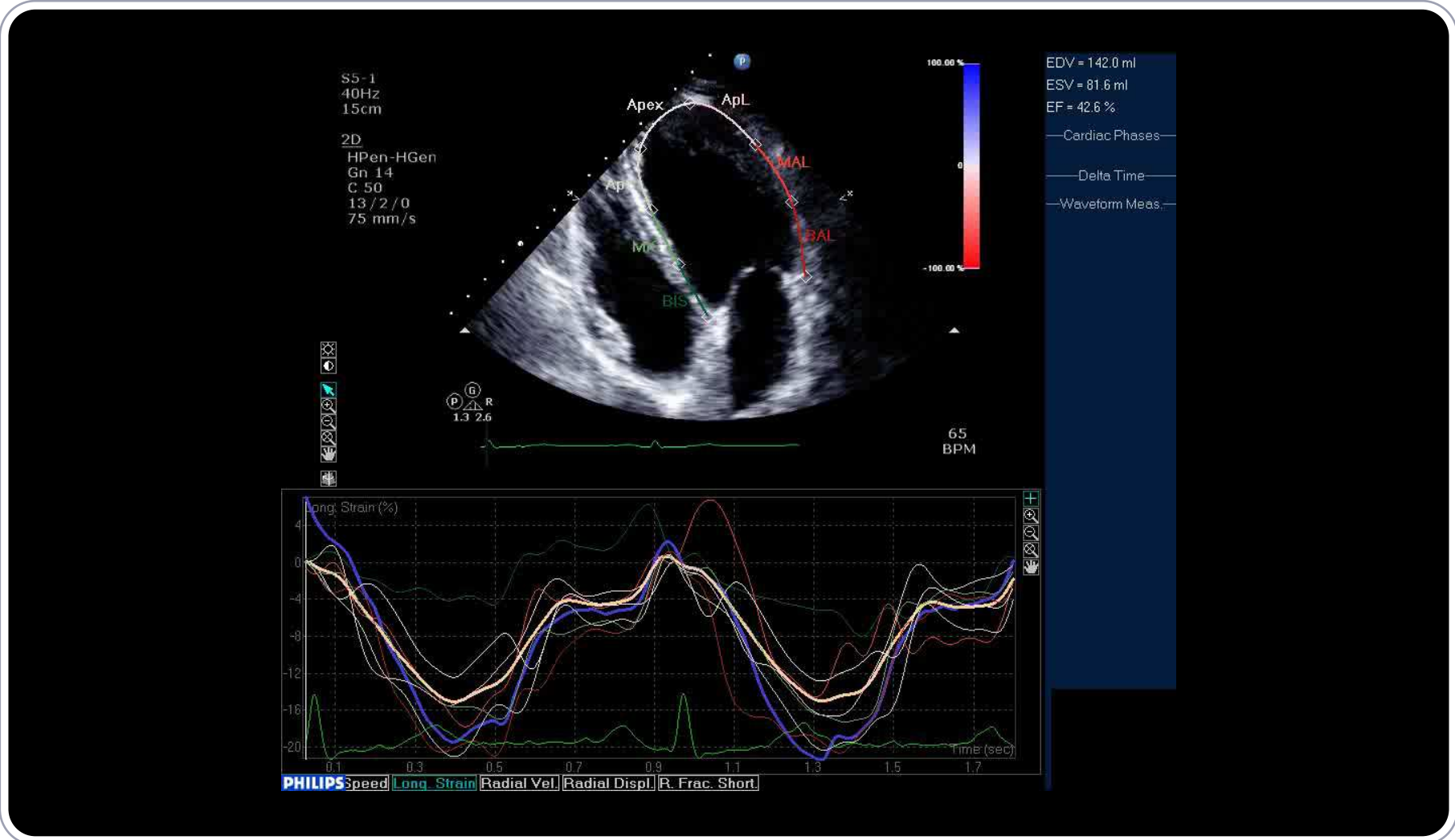
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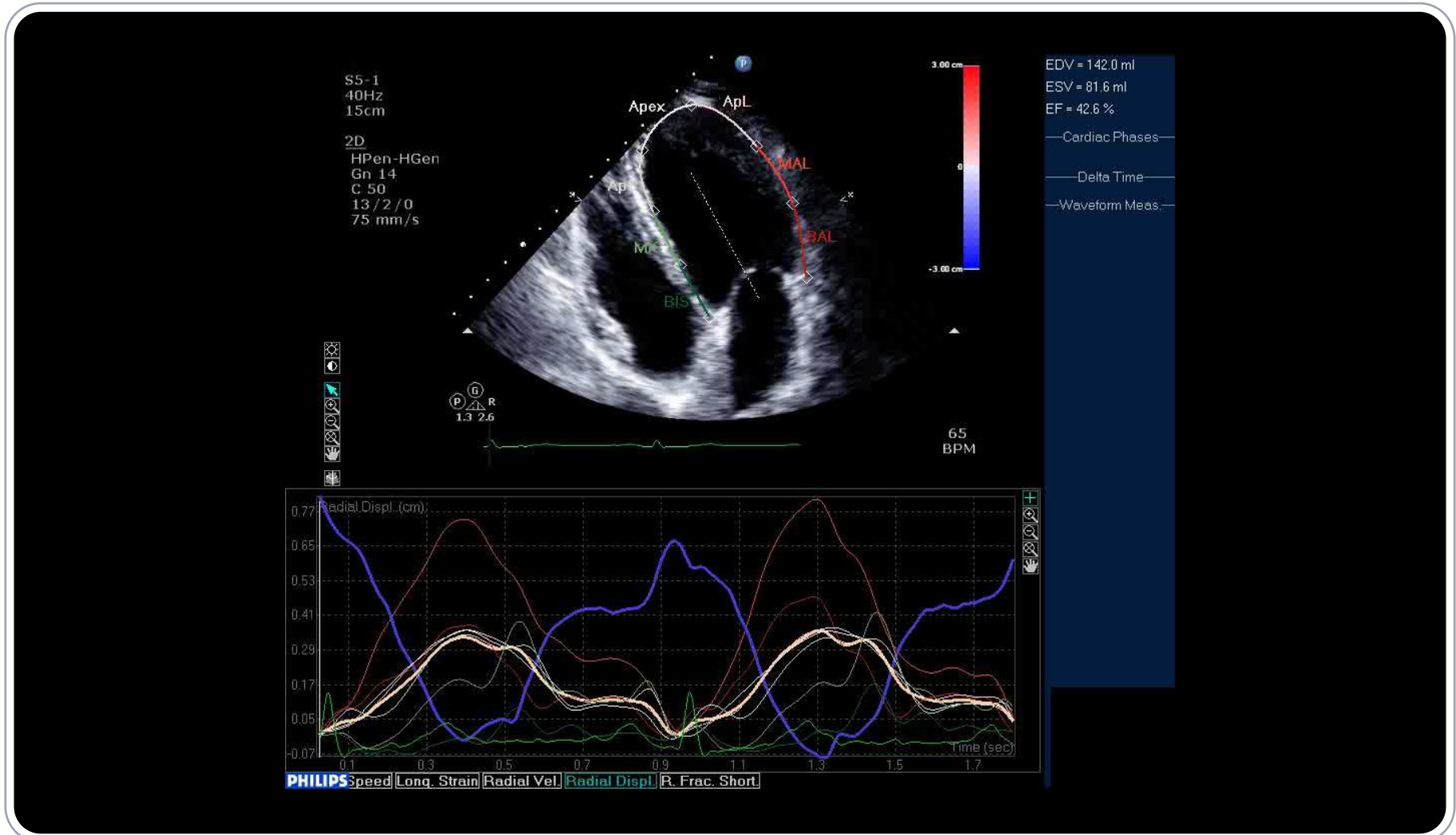
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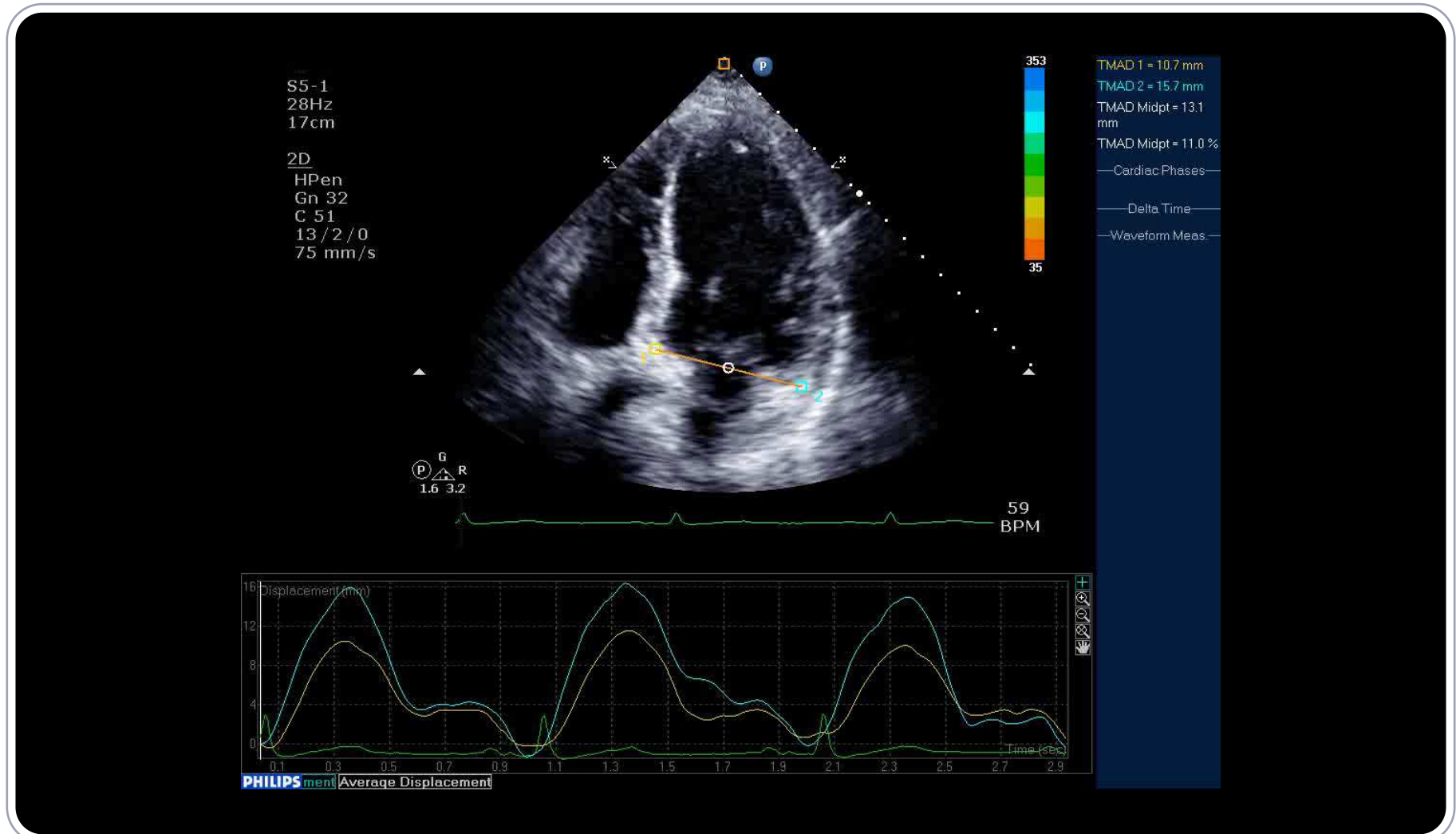
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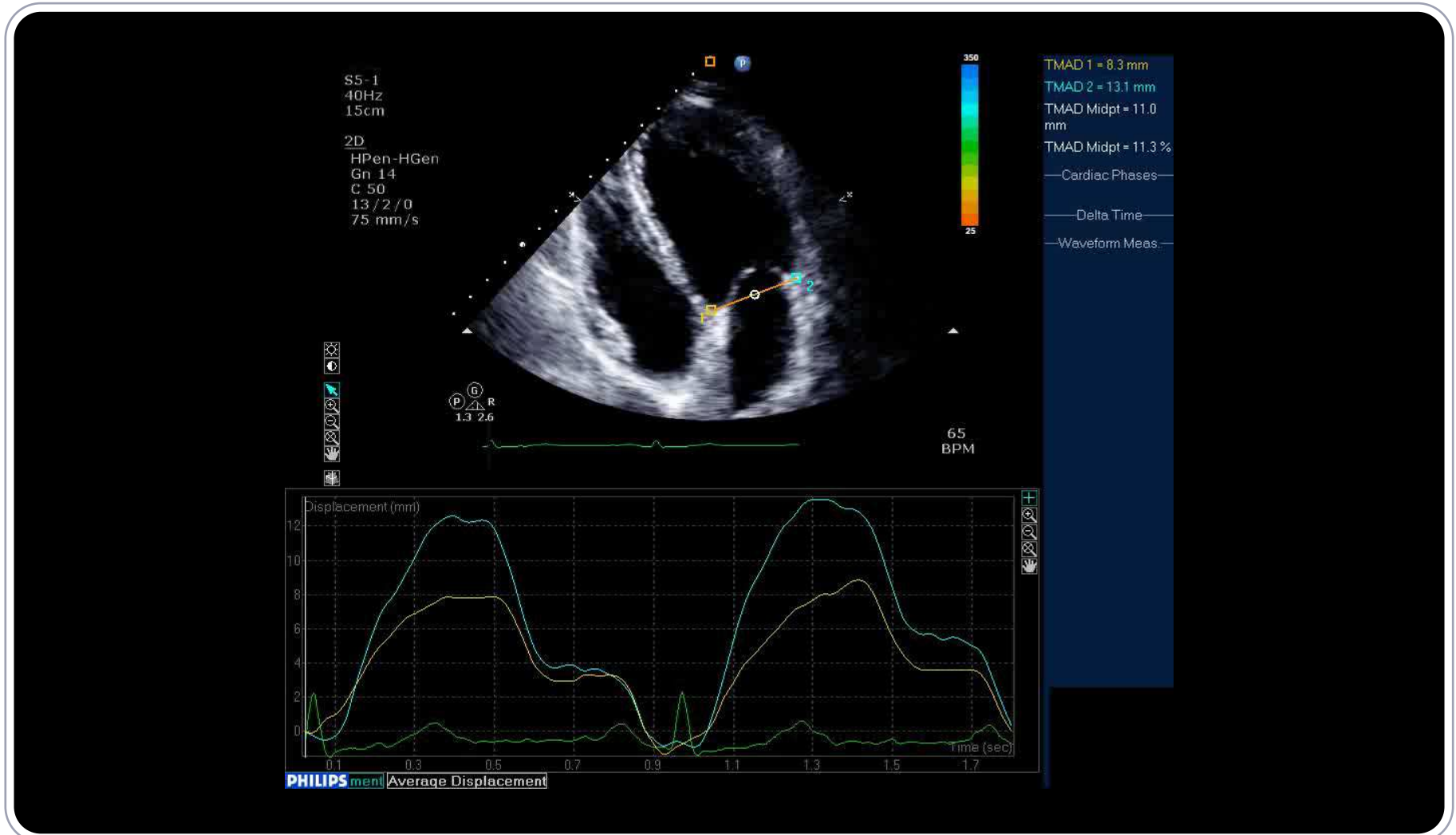
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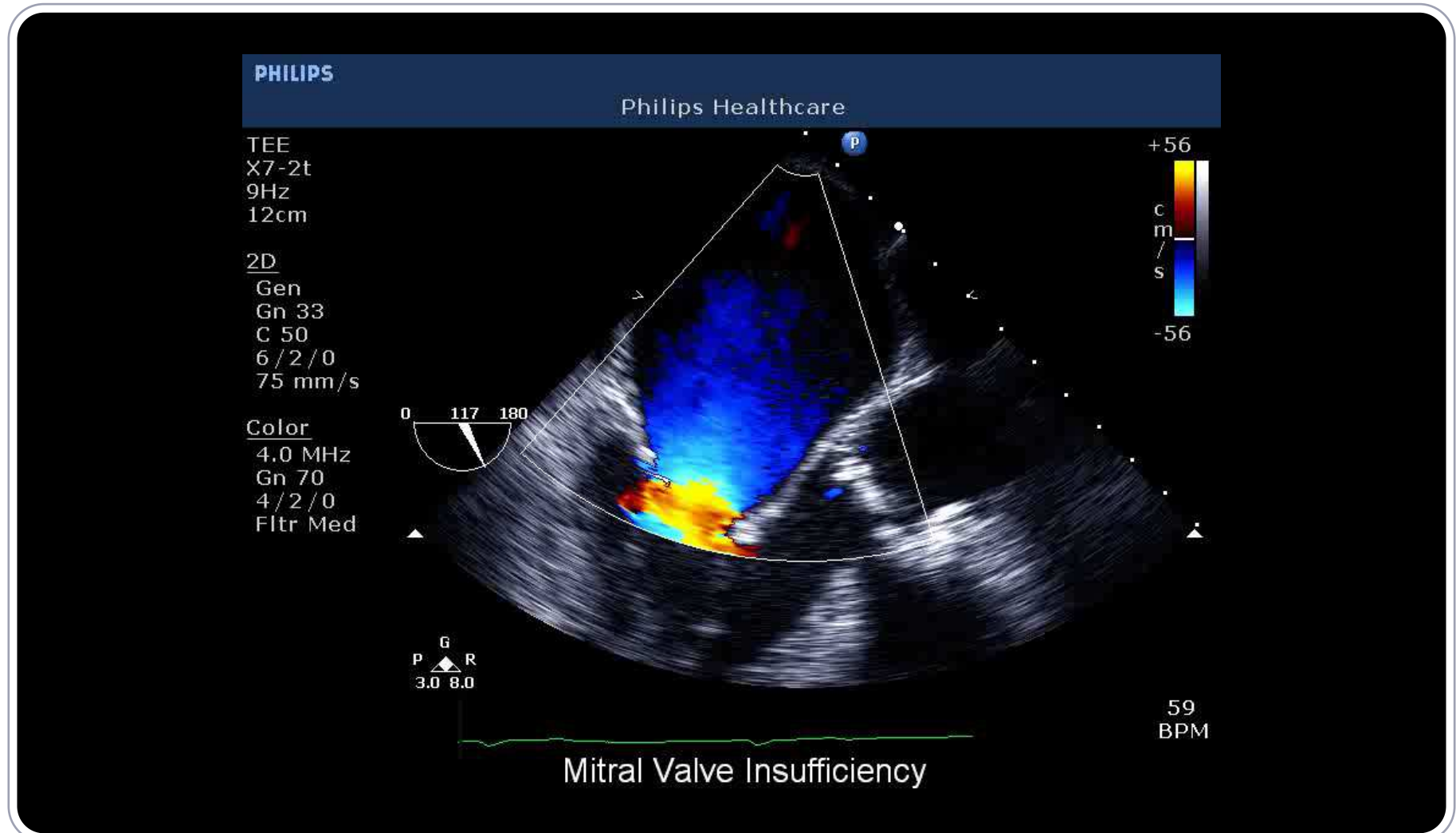
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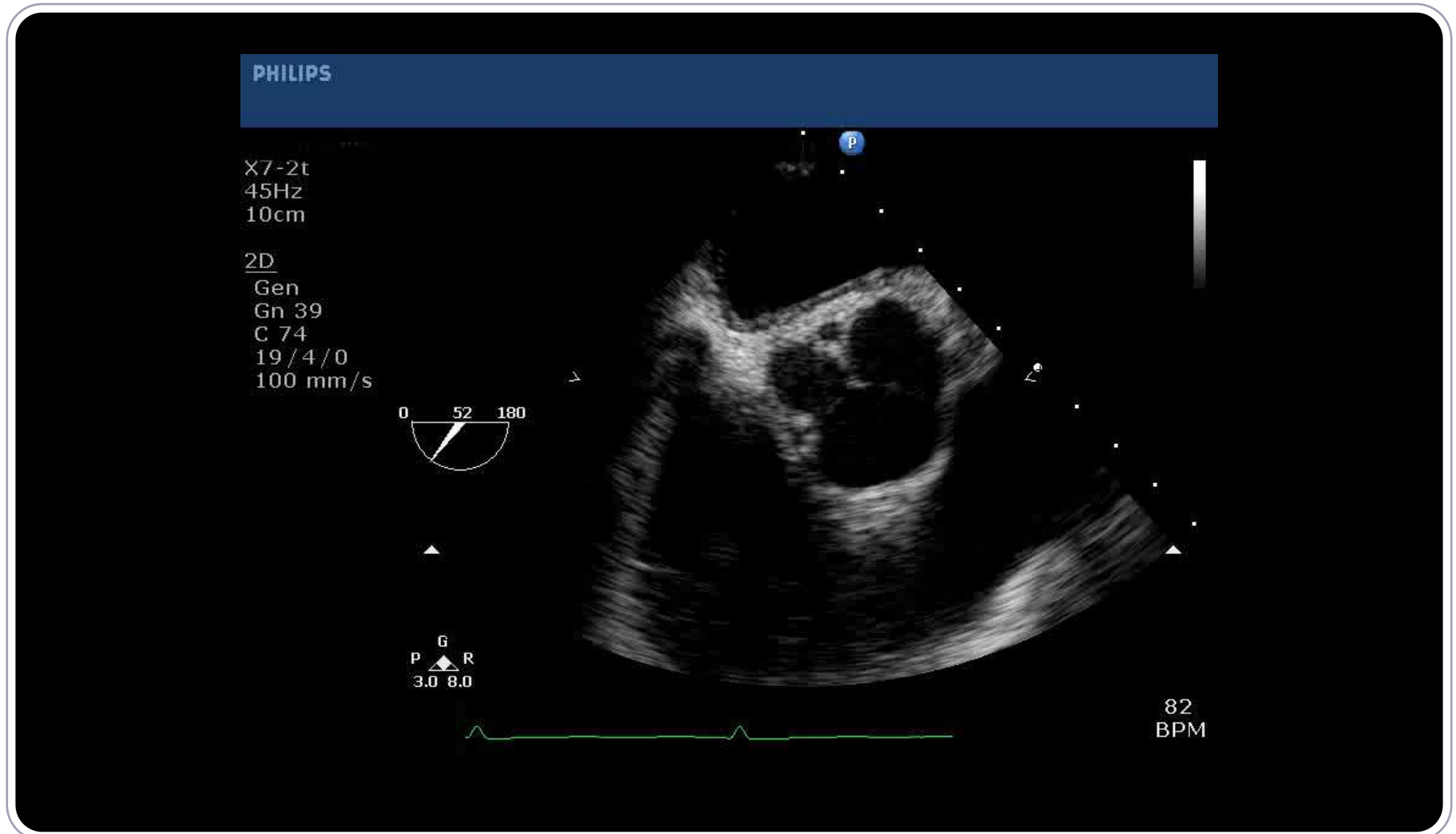
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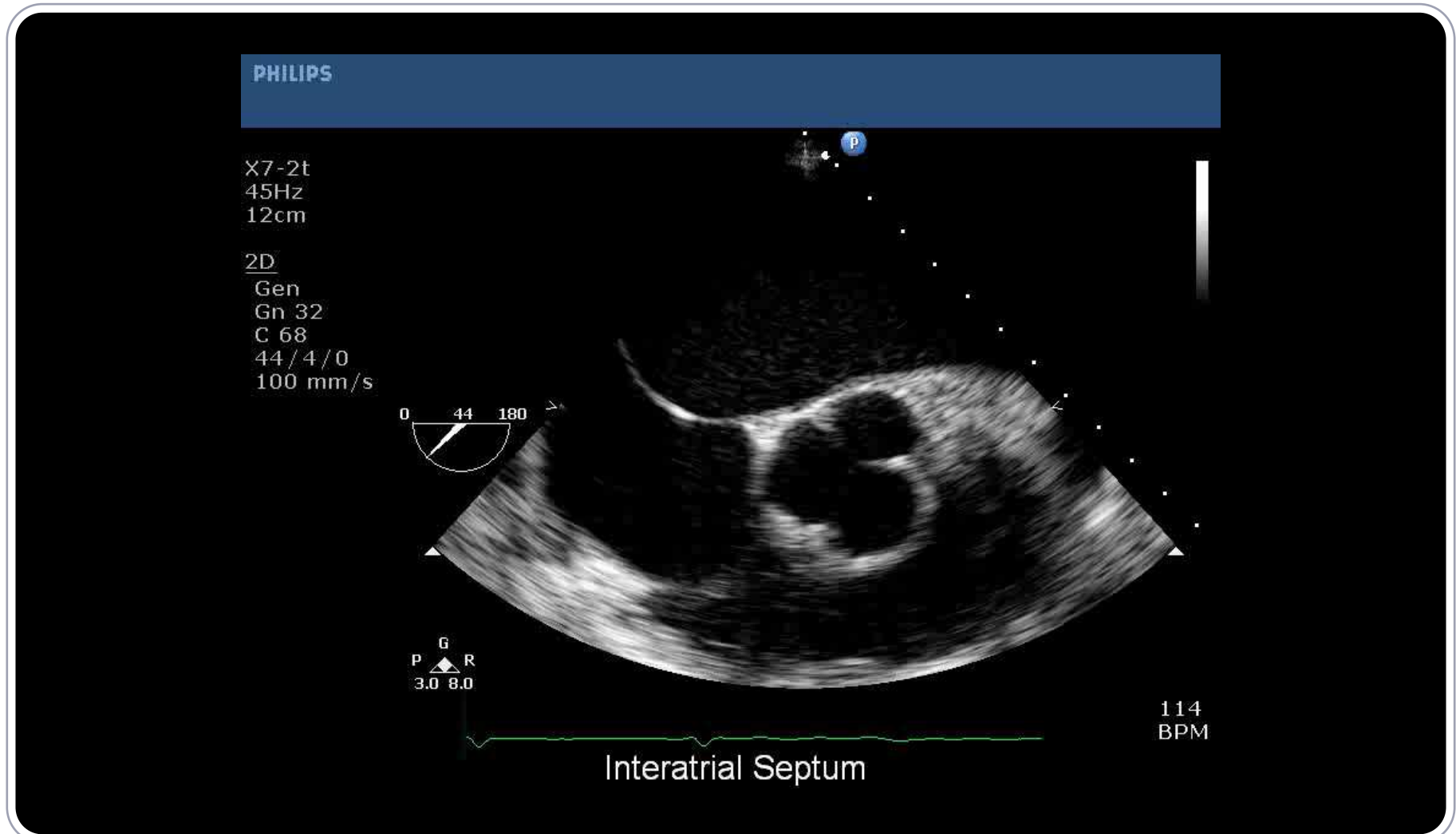
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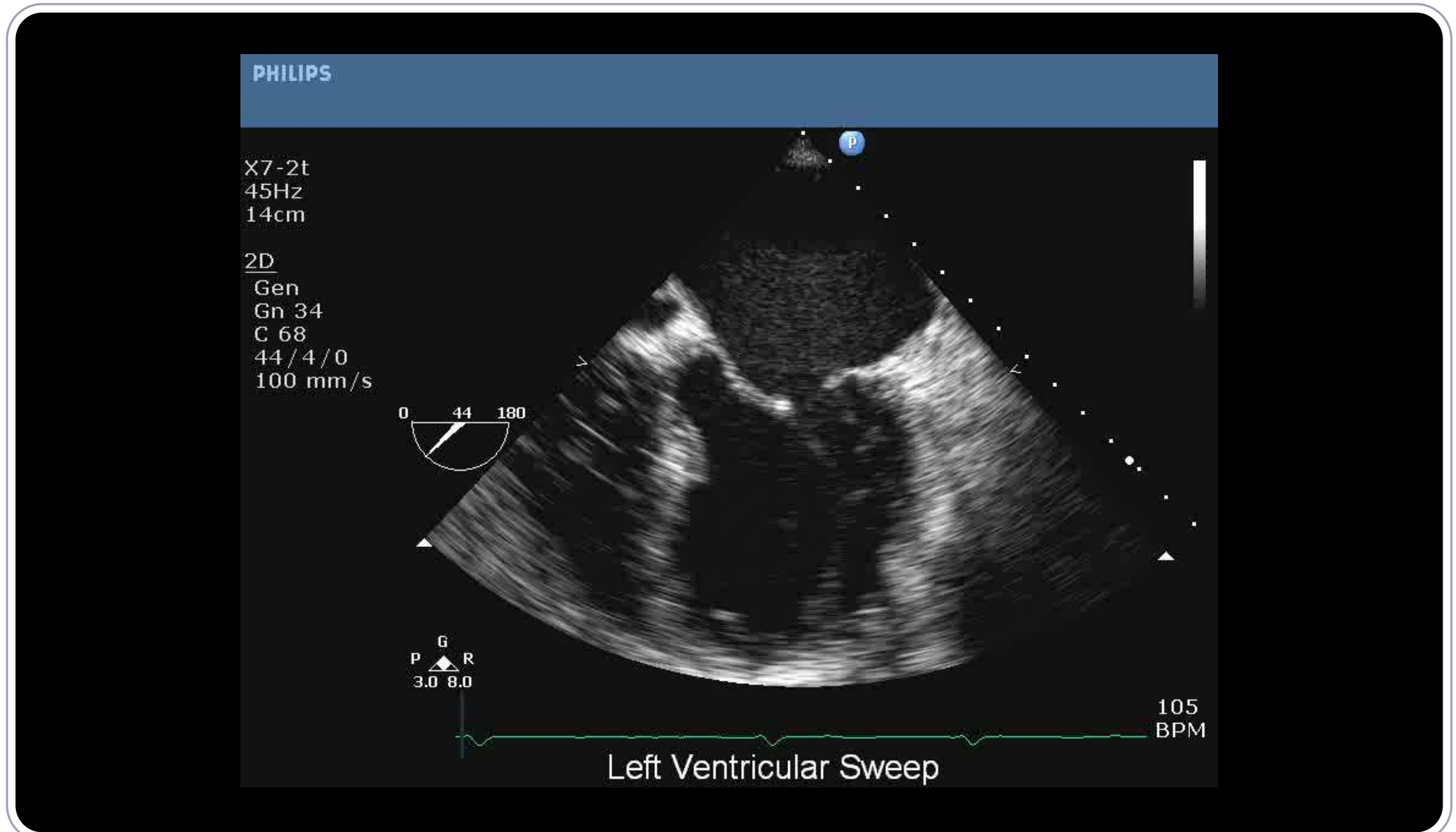
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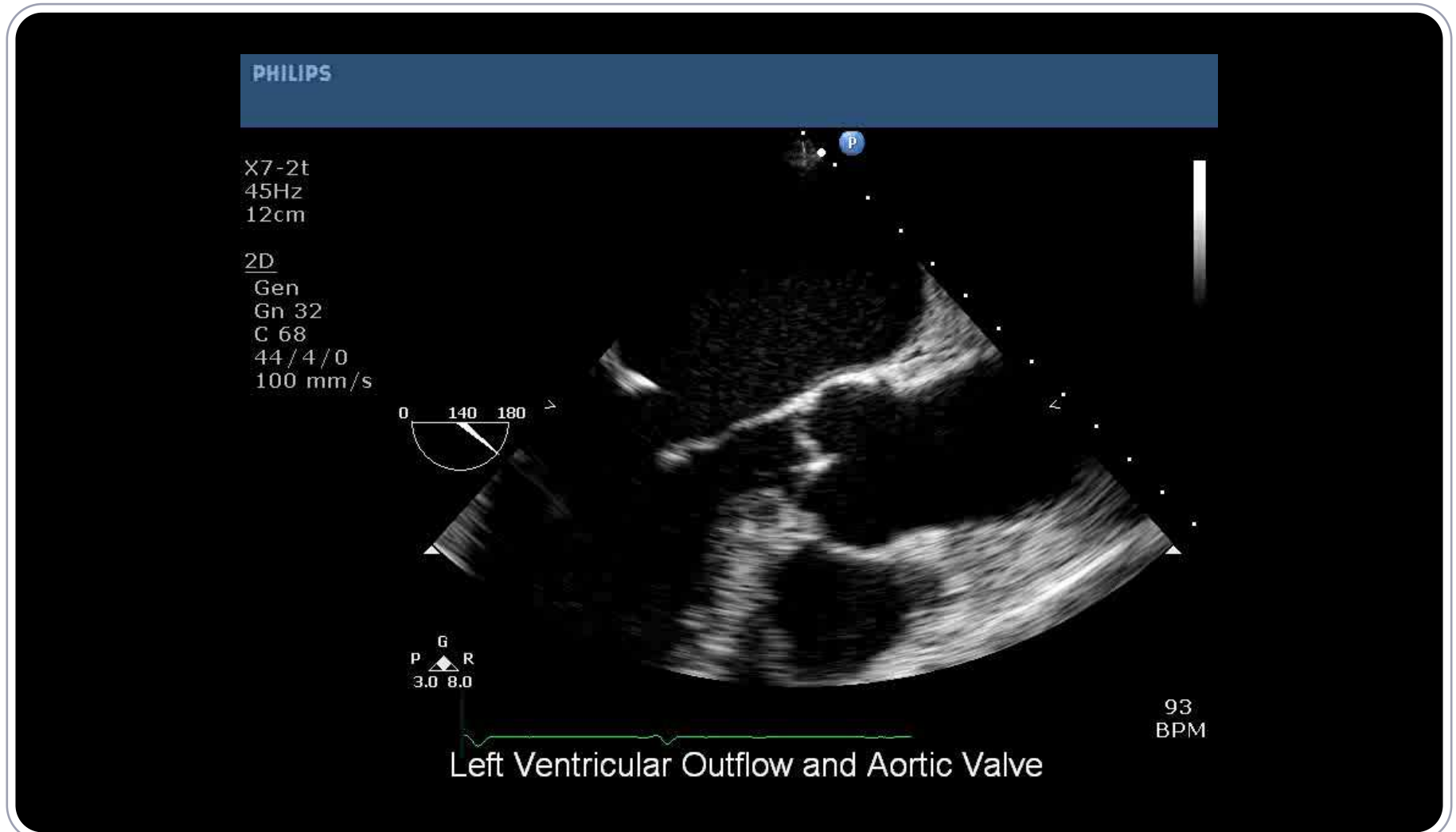
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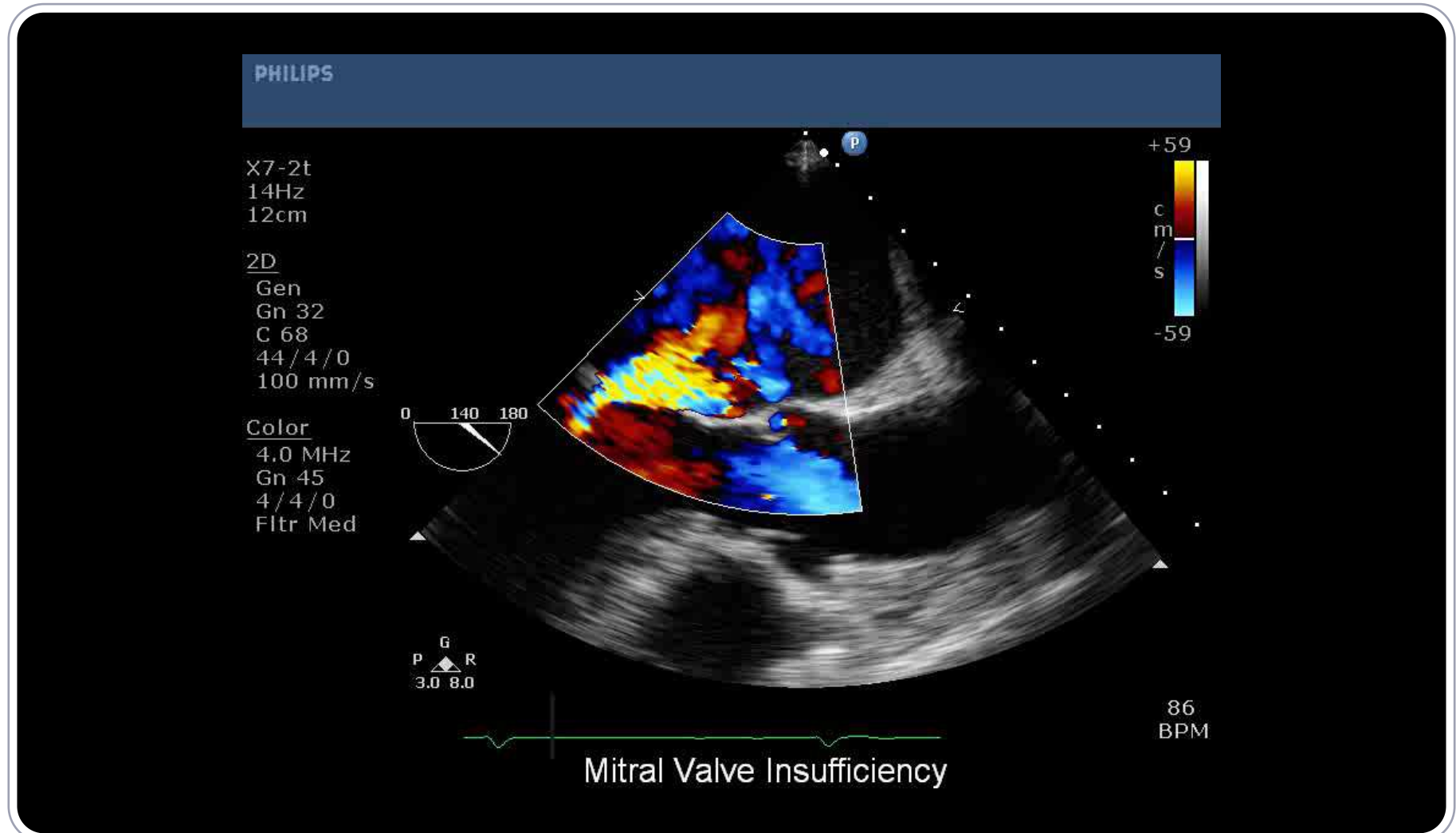
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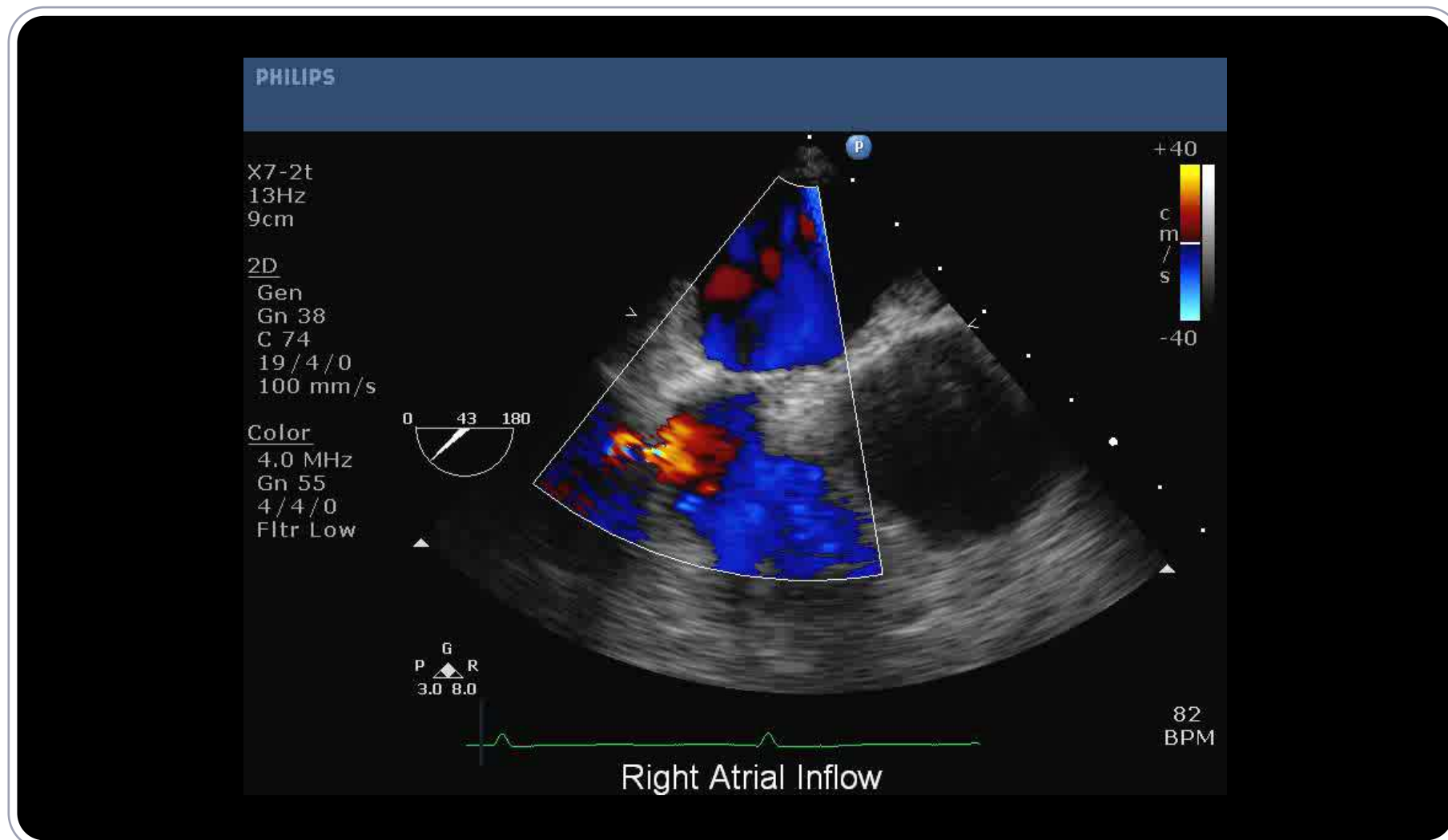
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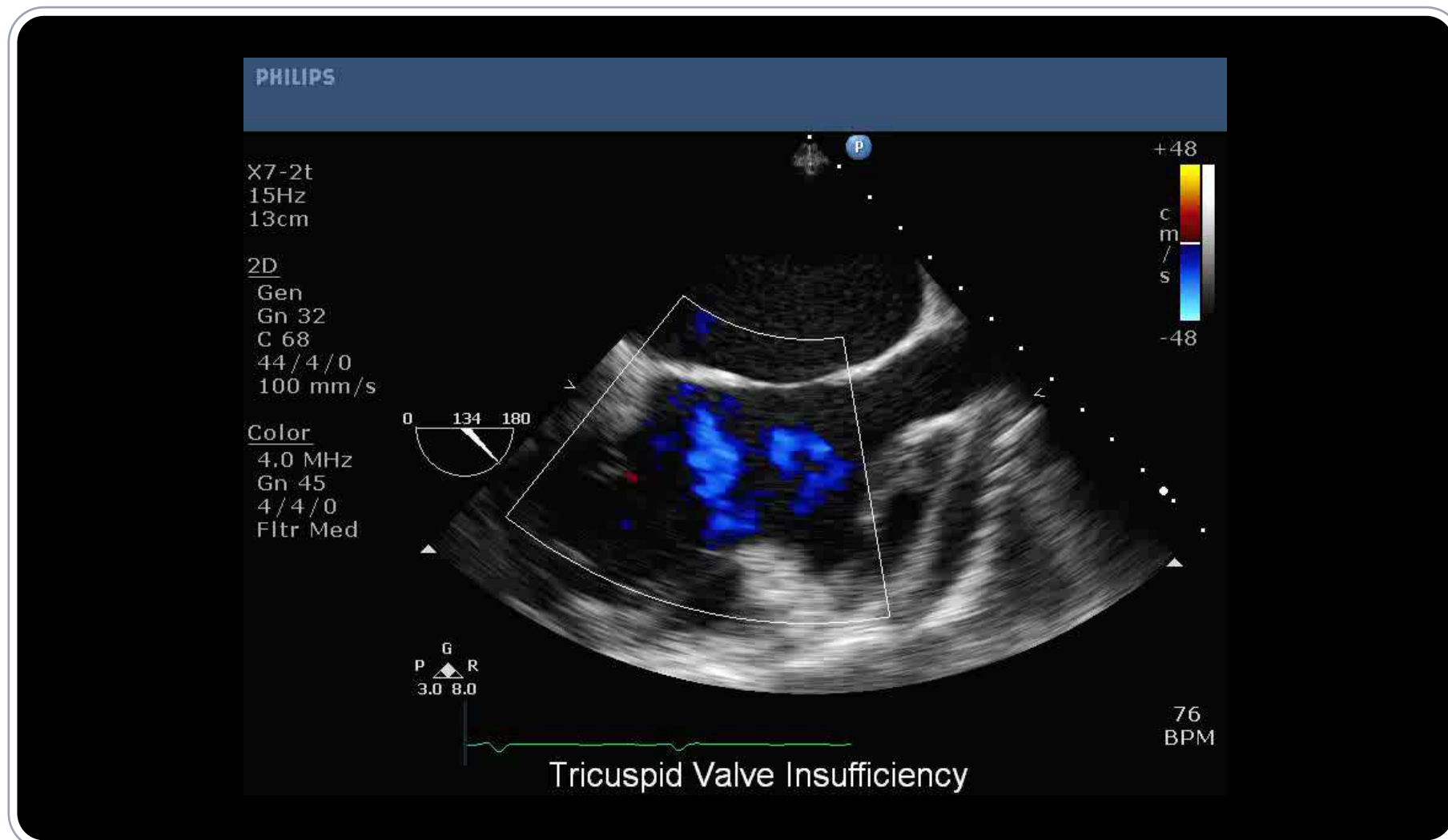
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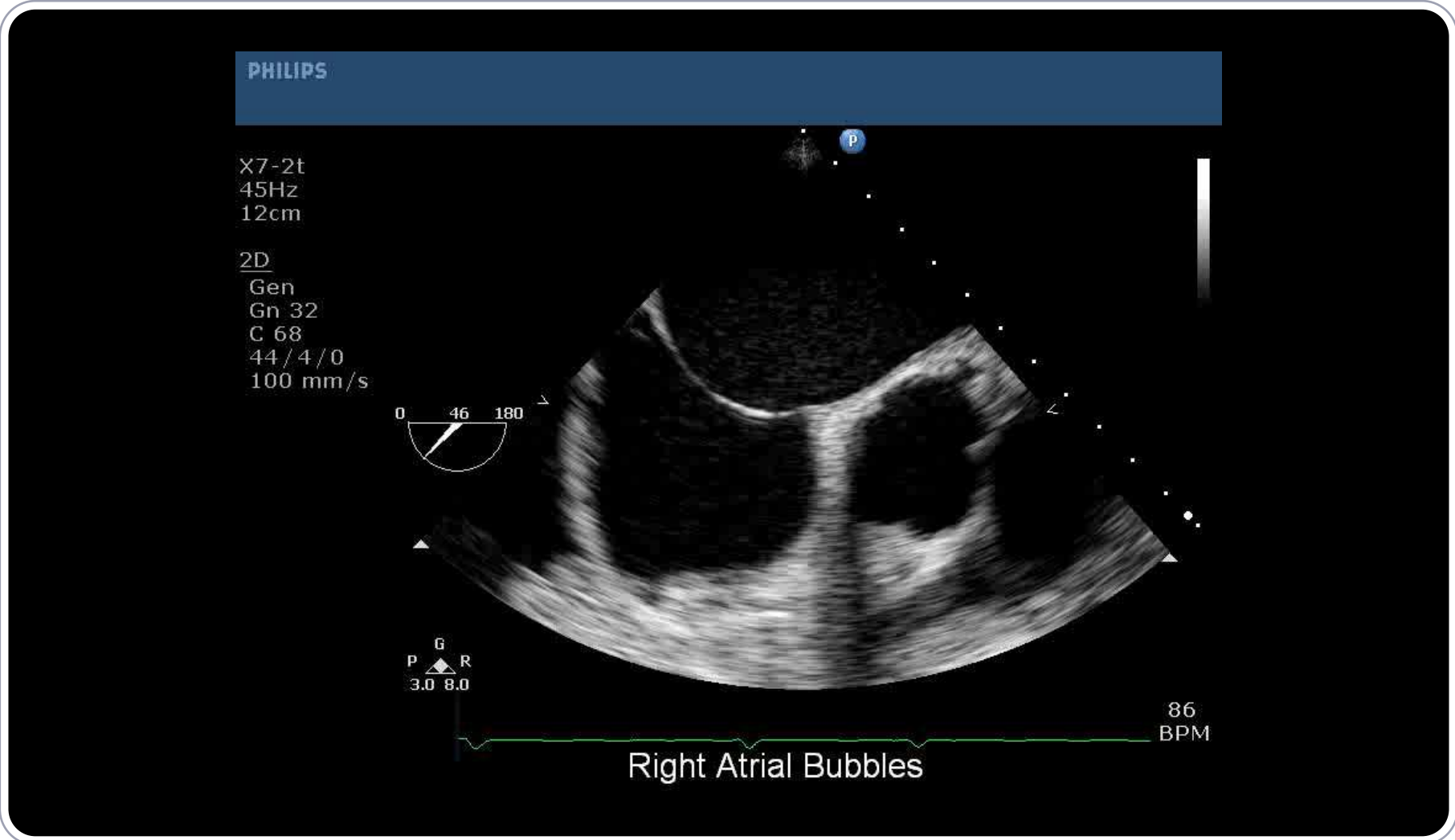
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