

VOLUSON FETAL HEART

EXPERT INSIGHTS. BRIGHTER FUTURES.

Congenital heart defects are one of the most common and most difficult fetal anomalies to detect. Identifying fetal cardiac abnormalities earlier means you can intervene sooner, plan for delivery and potentially improve outcomes.

With Voluson™ ultrasound systems, we aim to help you improve patient care with innovative technologies that allow you to focus on early identification rather than late diagnosis. GE Healthcare's dedication, coupled with collaboration with fetal echocardiography experts, has led to the development of progressive tools to help distinguish the tiniest structures with stunning clarity and to help simplify assessment and monitoring of the fetal heart. The Voluson ultrasound systems can help you to provide confident patient answers, faster.

BT21



EARLY DETECTION CREATING STRONGER OUTLOOKS

Assess the fetal heart from the earliest development stages with high detail, high resolution 2D, 3D and 4D imaging. Utilize easy automation to help obtain and visualize the recommended fetal heart for a complete exam.

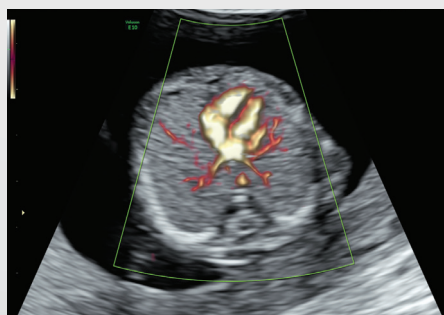
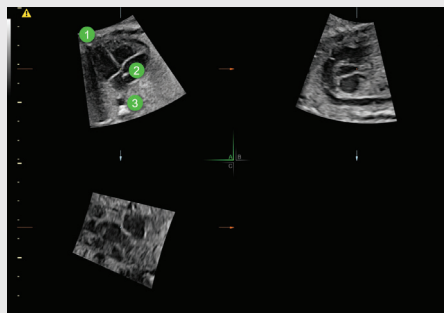


Spectacular 2D and 3D/4D images with increased penetration and clarity



Easily achieve high frame rates for real time assessment with superb detail

SonoVCAD™heart (Sonography-based Volume Computer Aided Display heart) – Enhanced volume automation to help standardize orientation of the fetal heart. With 3 easy clicks, automatically obtain the recommended views of the fetal heart from a single or eSTIC



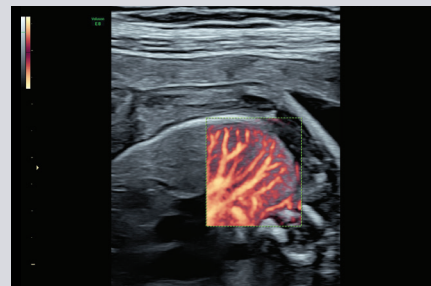
Detect fetal abnormalities earlier in the first trimester with the high resolution **4D endovaginal probe (RIC6-12D)**

GUIDING THE WAY TO HIGHER DIAGNOSTIC STANDARDS

Find answers to your challenging exams with cutting edge tools that help provide more clarity, more speed and more flexibility.



Achieve a new standard of color Doppler – **Radiantflow™** delivers easy, fast visualization of blood flow using the amplitude of the Color Doppler signal to enhance the robustness and create a 3D-like appearance



Expand the range of visible blood flow to include low velocities with **SlowflowHD** to visualize blood perfusion



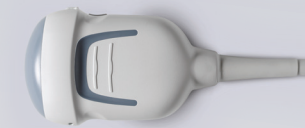
HDLive™ Flow – Clearly display vascular structures and orientation with greater dimension and illumination

HDLive Flow Silhouette – Visualize blood vessels and fetal heart flow to provide greater insight transparently through vascular anatomy

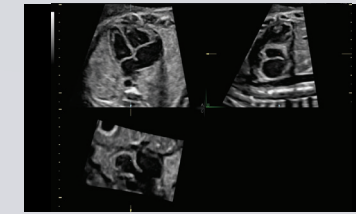
Apply **Anatomic M-Mode** on 2 areas of the fetal heart simultaneously for arrhythmia assessments

Ensure complete fetal heart assessment through the help of **Scan Assistant** – a flexible, and customizable exam protocol tool that helps increase exam consistency and productivity while documenting for quality assurance purposes

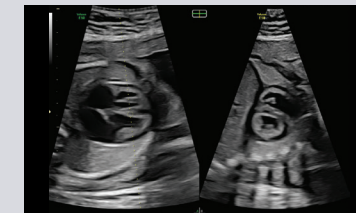
29X faster volume rates, flexible imaging formats, and brilliant resolution provided by the latest electronic 4D probe technology, eM6C. Probe technology offers unique tools to help with comprehensive fetal echo exams.*



eSTIC (electronic Spatio-Temporal Image Correlation) – Enhances fetal cardiac exams with up to 75% reduction in acquisition time over traditional STIC and delivers improved resolution in the B and C planes**



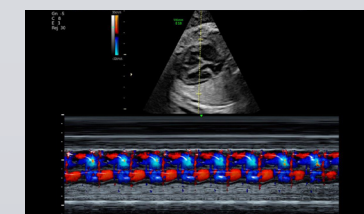
Bi-Plane imaging – Provides simultaneous display of high resolution, high frame rate images in two perpendicular planes. Technology may be used in 2D and color Doppler modes



e4D SnapShot – Optimizes exam time with one button access from real-time 4D to acquire an eSTIC data set. SnapShot function can reduce keystrokes more than 80% when moving from real-time 4D to eSTIC***



The RM7C sets new standards in performance and image quality. XDclear™ technology provides exceptional 2D, 3D and 4D resolution and color sensitivity



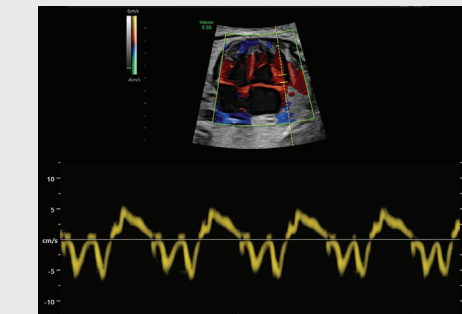
M5Sc sector probe – Phased array probe for fetal and maternal cardiac imaging, extraordinary imaging even in difficult scanning conditions



COMPLEX ANATOMY REQUIRES CUTTING EDGE TOOLS

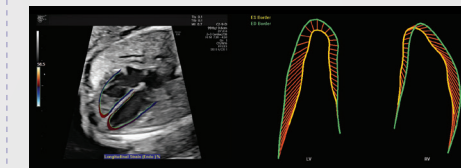
The Voluson E10 provides a full suite of cardiac technologies for the fetal heart expert. With exceptional 2D, robust color, tissue & pulsed wave Doppler, advanced measurements and fetalHQ, the Voluson E10 has the tools to support the varying needs of pediatric cardiology to maternal fetal medicine. So that you can intervene sooner, plan for delivery and potentially improve the outcomes for the baby and mother.

Conduct a more comprehensive assessment of fetal cardiac function with tissue and pulsed wave Doppler for wall and valve motion analysis



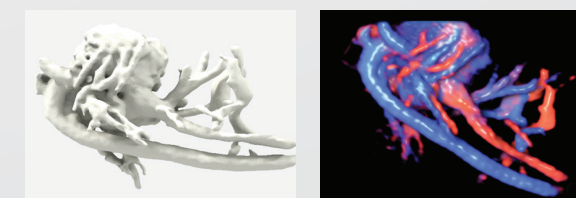
Quantify size, growth and trending of fetal heart structures based on published data with **Z-Scores**

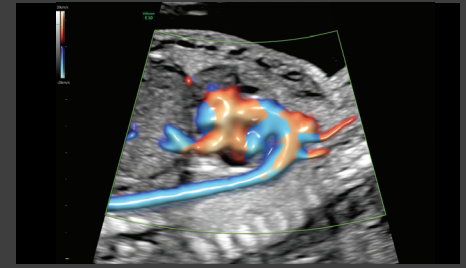
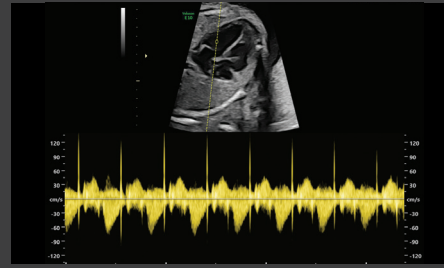
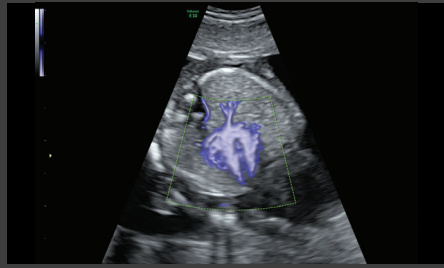
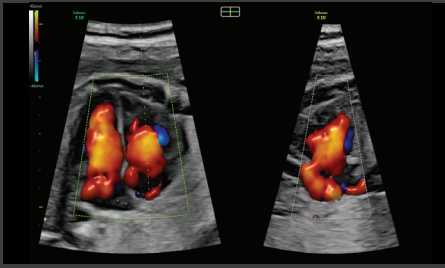
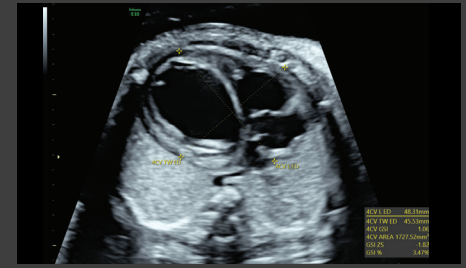
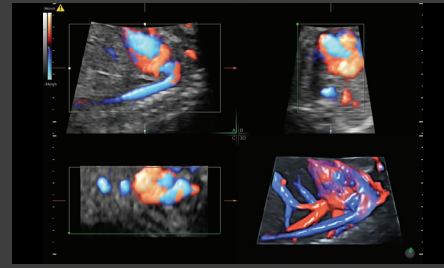
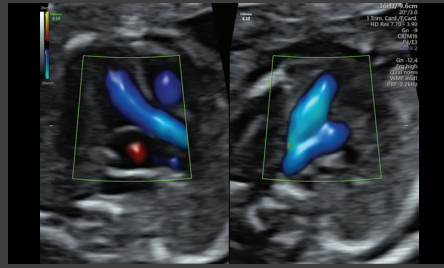
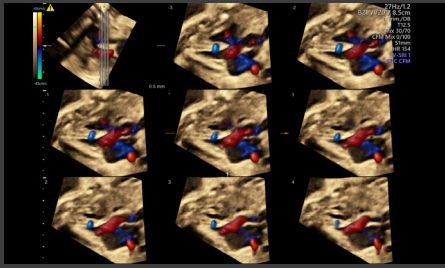
fetalHQ – Conduct an easy and comprehensive evaluation of the size, shape and contractility of the fetal heart from the 4-chamber view using measurements based on 2D imaging and speckle tracking. fetalHQ contains an in-depth report including Z-scores and percentiles for each of the cardiac measurements. New AutoFlip and Quiver features help simplify the fetal heart orientation, border identification and endocardial border



New **TAPSE/MAPSE** and other published measurement data for expanded reporting and diagnostic support

Explore **3D Printing** for rapid clinical prototyping and research with full mesh exports directly from the Voluson ultrasound system – export files can be generated from color, inversion, and glass body data sets





LIKE FAMILY – WE'RE HERE FOR YOU

Exclusive offerings to enhance your expertise

>32K
members

Join **VolusonClub** – The only ultrasound community dedicated to the education and collaboration of women's health providers – Benefits include: Product educational videos, product tips and tricks, white papers, Voluson educational courses and much more



A well maintained Voluson system improves your efficiency and helps you to deliver the best patient care. That's why we designed Voluson Ultrasound Systems with InSite™ connectivity, enabling OnWatch proactive diagnostics and remote software updates so you can receive OS patches and Security updates. Combined with flexible service and financing programs, GE can partner with you to monitor and maintain your systems to ensure quality and compliance

Voluson Ultrasound Cleaning and Disinfection –

For more detailed information on cleaning and disinfection, visit VolusonClub, www.gehealthcare.com/ultrasound or scan the QR code



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*As compared to volume rates on e4D vs mechanical probes (RAB6) on BT20

**Compared to conventional mechanical probe technology with STIC.

***Comparison performed using GE's eM6C probe and GE's RAB6-D probe.