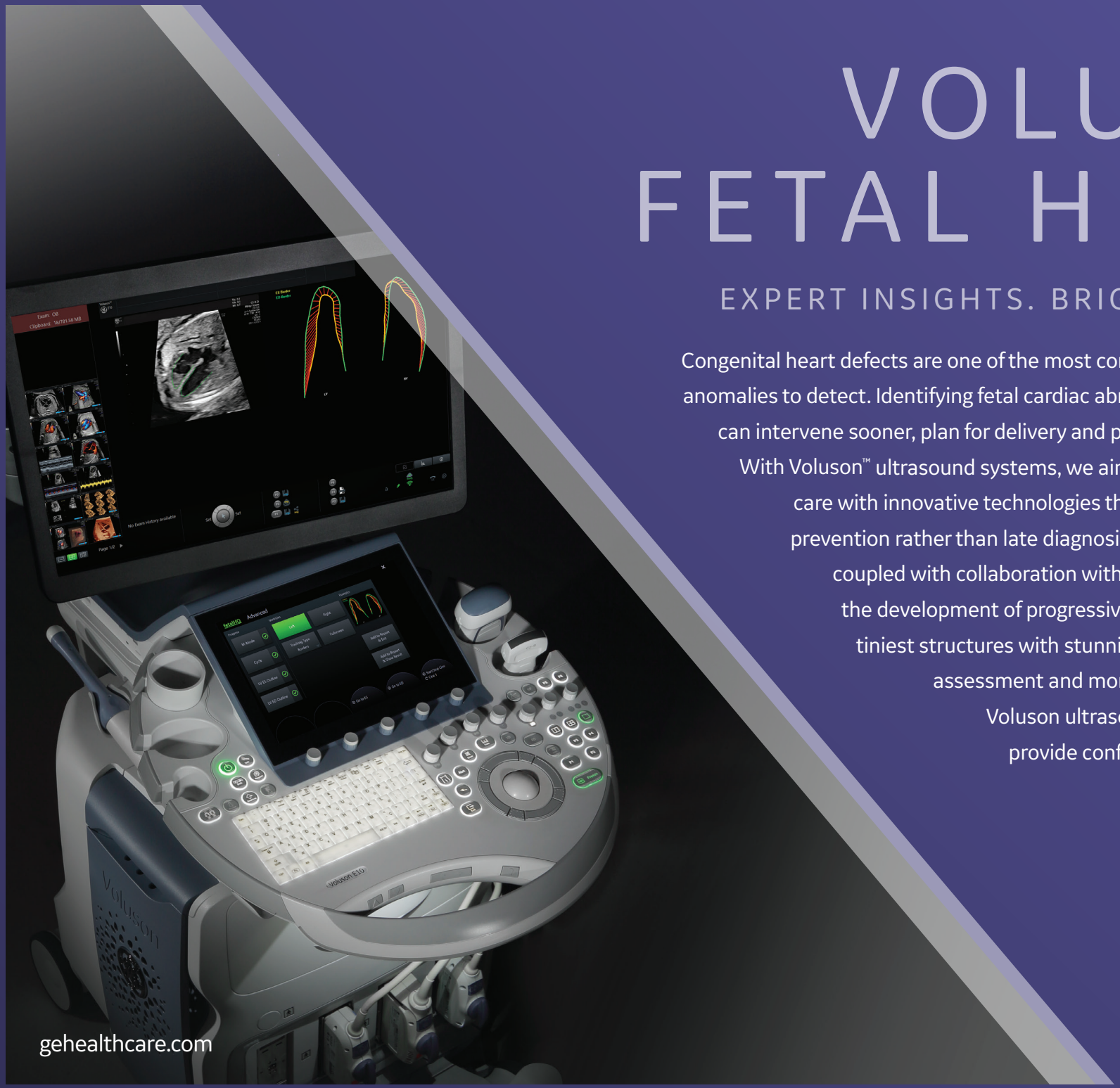


VOLUSON FETAL HEART

EXPERT INSIGHTS. BRIGHTER FUTURES

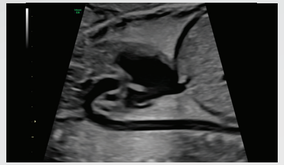
Congenital heart defects are one of the most common and most difficult fetal anomalies to detect. Identifying fetal cardiac abnormalities earlier means you can intervene sooner, plan for delivery and potentially improve outcomes. With Voluson™ ultrasound systems, we aim to help you improve patient care with innovative technologies that allow you to focus on early prevention rather than late diagnosis. GE Healthcare's dedication, coupled with collaboration with fetal echo 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.

BT19

gehealthcare.com

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.

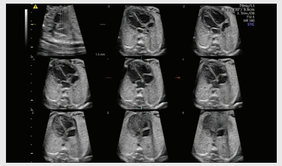


Spectacular 2D and 3D/4D images with increased penetration and clarity



Apply **HDRes** for elevated tissue differentiation, border definition and fine resolution

Visualize 4 chamber and outflow tract easily with the newly enhanced **SonoVCAD™*heart*** (Sonography-based Volume Computer Aided Display heart) – to help standardize orientation of the fetal heart by providing recommended views obtained from a single volume or STIC acquisition





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.



Effortless visualization of even the tiniest of vessels with a new standard of color Doppler – **Radiant*flow*™** – Easily visualize small septal defects



Expand the range of visible blood flow to include low velocities with **Slow*flow*HD** to visualize blood perfusion in very small vessels



HD*live*™ Flow – Clearly display vascular structures and orientation with greater dimension and illumination

HD*live* 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

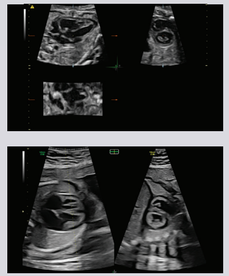
16X faster volume rates, flexible imaging formats, and brilliant resolution provided by the latest electronic 4D probe technology, eM6C. Probe technology offers unique tools to help with comprehensive fetal echo exams*

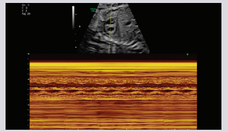


e*STIC (electronic Spatio-Temporal Image Correlation) – Enhances fetal cardiac exams with up to 75% reduction in acquisition time over traditional STIC and delivers improved resolution in the B and C planes**

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 *e*STIC data set. SnapShot function can reduce keystrokes more than 80% when moving from real-time 4D to *e*STIC***





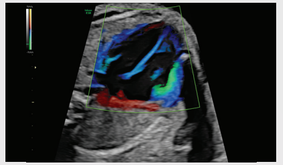
M5Sc sector probe – Phased array probe for fetal and maternal cardiac imaging, extraordinary imaging even in difficult scanning conditions



COMPLEX ANATOMY REQUIRES CUTTING EDGE TOOLS

The Voluson E10 provides a full suite of cardiac technologies for the fetal heart expert. From robust 2D imaging to advanced pulsed wave with tissue Doppler measurements to *fetal*HQ, 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 combined tissue and pulsed wave Doppler for wall and valve motion analysis.



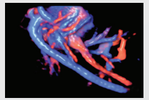
Quantify size, growth and trending of fetal heart structures based on published data with **Z-Scores**

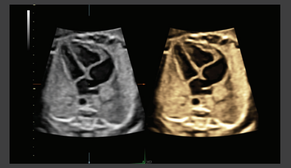
***fetal*HQ** – Conduct an easy and comprehensive evaluation of the size, shape and contractility of the fetal heart from the 4-chamber view using measurements based on 2D imaging and speckle tracking. *fetal*HQ contains an in-depth report page including z-scores and percentiles for each of the cardiac measurements

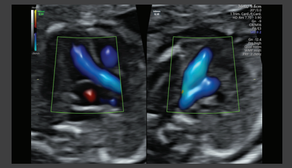


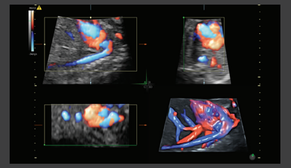
Explore **3D Printing** for rapid clinical prototyping and research with full mesh exports directly from the Voluson ultrasound system –export files can be generated from color, inversion, and glass body data sets

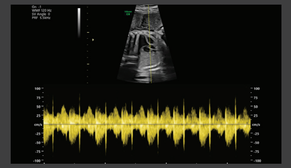


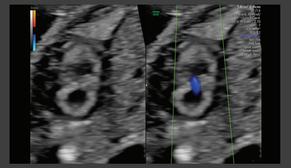




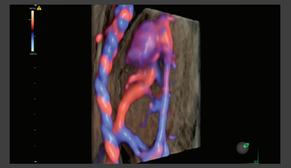


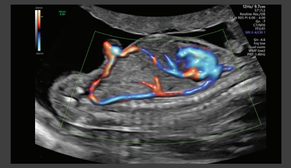












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Exclusive offerings to enhance your expertise.

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

>26K members



Count on responsive service and support from dedicated staff and programs that truly meet your training, equipment maintenance, transducer protection, and flexible financing

*Comparison performed using VE10 and *e*M6C probe BT18 and VE10 and mechanical RAB6 probe BT18.

**Compared to conventional mechanical probe technology with STIC.

***Comparison performed using GE's *e*M6C probe and GE's RAB6-D probe.

Imagination at work

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August 2018
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