GE Healthcare

LOGIQ S8 XDclear Musculoskeletal Imaging

Image with confidence and speed, head to toe

Clinical Challenge

Ultrasound imaging is a critical diagnostic test for many musculoskeletal conditions. Clinicians need excellent contrast and detail resolution to get an in-depth understanding of tissue, pathology, blood flow, and inflammation levels.

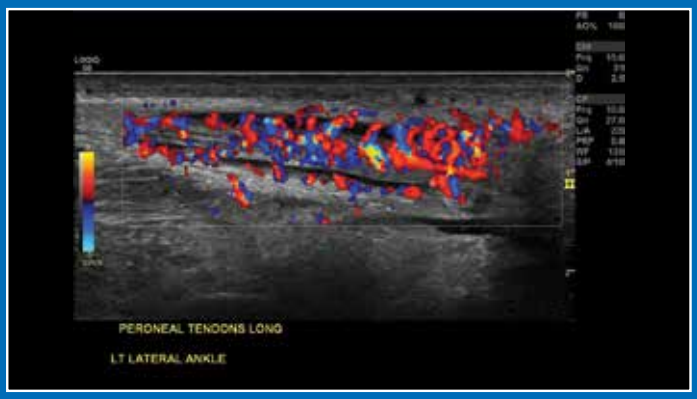
GE Solution

The LOGIQ™ S8 XDclear™ system provides superb, high-resolution images across the range of musculoskeletal applications – from deep penetration in larger structures like hips and shoulders to finely-detailed visualization in smaller parts, like fingers and wrists. Its innovative workflow tools help increase exam efficiency while advanced technologies, like Strain Elastography, support excellent diagnostic confidence.

Superb Imaging

Choice of high performance probes – The system offers both E-Series and XDclear probes, which are GE's highest performing probes. Advancements in acoustic engineering help increase penetration and deliver high definition resolution.

- **L3-12-D** for excellent detail in hip and deeper structures
- **ML6-15-D** matrix array for great imaging of superficial structures wrist, elbow and shoulder
- **L8-18i-D** "hockey stick" for stunning imaging of small joints such as fingers, wrist, ankle and dynamic examinations
- **RSP6-16-D** for 3D/4D imaging improves visualization by providing a three-dimensional image that enables the clinician to visualize a tendon or muscle in three different planes
- **9L-D** for deep penetration especially useful in imaging large shoulders
- **C2-9-D** is a broad spectrum convex probe for hips



Ankle with Color Flow, ML6-15-D

Popliteal space, L3-12-D

B-Flow™ imaging – This non-Doppler technique enables direct, real-time visualization of blood flow echoes with no vessel wall overwrite to obscure details.

- **B-Flow Color** – Supports imaging of tendinitis and other inflammatory conditions, helping to improve flow visualization of small superficial vessels with excellent sensitivity, spatial and temporal resolution as well as angle independency.
- **Capture Recon** – Provides a three-dimensional view of blood vessels in which artifacts are suppressed and weak vessel signals enhanced.

Auto TGC – Automatically optimizes image brightness and contrast, enabling excellent image quality without slowing down procedures.

Simplified Workflow

Raw Data – Helps shorten musculoskeletal study times by enabling users to quickly acquire data and then apply a wide variety of image processing after the exam.

Virtual Convex – Provides a wide field of view on linear probes so users can visualize more anatomy in a single scan.

LOGIQ View – Constructs an extended image from individual frames, enabling a "virtual sweep" that can help reduce exam times when a panoramic view is needed. B-mode measurement capability helps enhance diagnostic confidence.

Scan Assistant – Provides customizable automation to assist users at each step of an ultrasound exam, helping to reduce keystrokes and exam times.

Compare Assistant – Allows previous and current studies to be viewed side-by-side on the ultrasound monitor during exams. This can help improve the quality and efficiency of comparison studies.

Scalable to Your Needs

B Steer + – Users can see the needle advance in real time with no image processing delays. This helps to improve the speed and accuracy of interventional procedures such as biopsies and joint injections.

Strain Elastography – Strain Elastography software estimates the strain, or tissue deformation, in the region of interest after compression. This robust tool includes:

- Qualitative package with color and gray maps
- Deformation Quality bar and graph to help improve user confidence
- Semi-Quantification with E-Index and E-Ratio Q-Analysis over a multi-frame acquisition[1]

Semi-Quantitative Flow Analysis Package – Helps enable joint inflammation staging, treatment planning, and monitoring.

[1] Not available for sale in the United States. Not cleared by the United States FDA.

Imagination at work

www.gehealthcare.com. Product may not be available in all countries and regions. Contact a GE Healthcare Representative for more information.

Data subject to change.

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