What’s Shearwave?

The shear waves are lateral waves, with a motion perpendicular to the direction of the force that has generated them. The propagation velocity of the shear waves is correlated with the tissues elasticity. The waves get faster with increasing stiffness of the examined tissues.

QElaXto

Esaoe QElaXto Shear Wave Elastography technology is characterized by the generation of the shear wave speed originated by an Ultrasound focused beam, which creates a localized perturbation in a single point. This phase is followed by a reading phase, which is made possible by using a Region of Interest (ROI) delivering a quantitative estimation of liver stiffness.

How does it work?

QElaXto delivers a quantitative measure of tissue stiffness, even of a small tissue sample, expressed in Shear Wave propagation velocity or deduced Young Modulus in KPa. The system has a set value of measurement rejection, which skips the values outside the accepted range. The tissue stiffness measurement obtained is based on the detection and 3D evaluation of the Shear Wave. Data are obtained by considering a volumetric portion of the tissue under examination, where the gate (Region of Interest – ROI) is only its bi-dimensional representation.
**Shear Wave Elastography**

**3D eWave**
3D eWave Shear Wave Quality Graph is an immediate feedback about measurement quality.

**User-Centered Design**
User-friendly interface fully customizable including Quick Cooling phase with Automated Image Saving and Unfreeze for improved productivity and exam speed up.

**Virtual Navigator**
Esaote QElaXto pSWE is available also with Virtual Navigator Real-time Multimodality Fusion Imaging and Virtual Biopsy with Measurements available in m/s and KPa (selection possible in real-time).

QElaXto Esaote patent pending technology with Advanced Software and Motion Correction Algorithm for a smart selection of good measurements.

**Esaote QElaXto pSWE Advantages**
- Non-invasive solution to evaluate liver fibrosis
- Stiffness quantification – easy, reliable, accurate, reproducible
- Real-time ultrasound image feedback positioning
- A possible alternative to gold standard such as liver biopsy
- Definitely less expensive than MRI Elastography (MRE)

Thank you for considering Esaote
We listen to your needs and work every day to provide the most advanced technologies and the most innovative design for you to excel in the care of your patients

This Product is not for demonstration and sales yet (no conformity approval available).

Esaote S.p.A.
Via di Cacilie, 15 50127 Florence, Italy, Tel. +39 055 4229 1, Fax +39 055 4229 208, international.sales@esaote.com
Via A. Siffredi, 58 16153 Genoa, Italy, Tel. +39 010 6547 1, Fax +39 010 6547 275, info@esaote.com

---

Technology and features are system/configuration dependent. Specifications subject to change without notice. Information might refer to products or modalities not yet approved in all countries. For further details, please contact your Esaote sales representative.