Real-Time Elastosonography
Comprehensive Package
for all Districts

ElaXto

Thyroid

Breast

Prostate

Liver
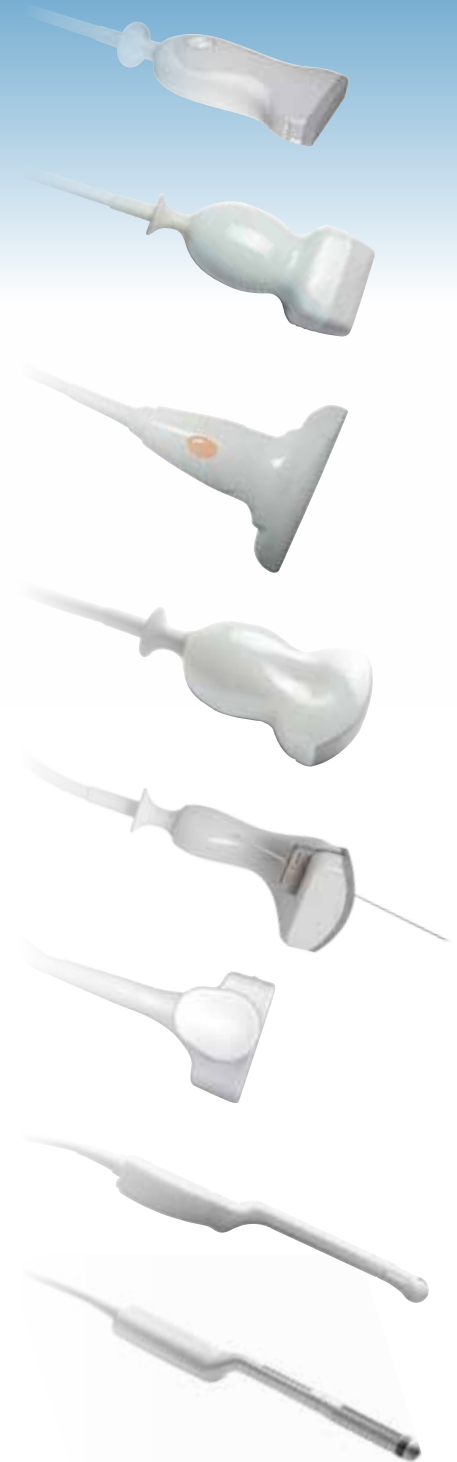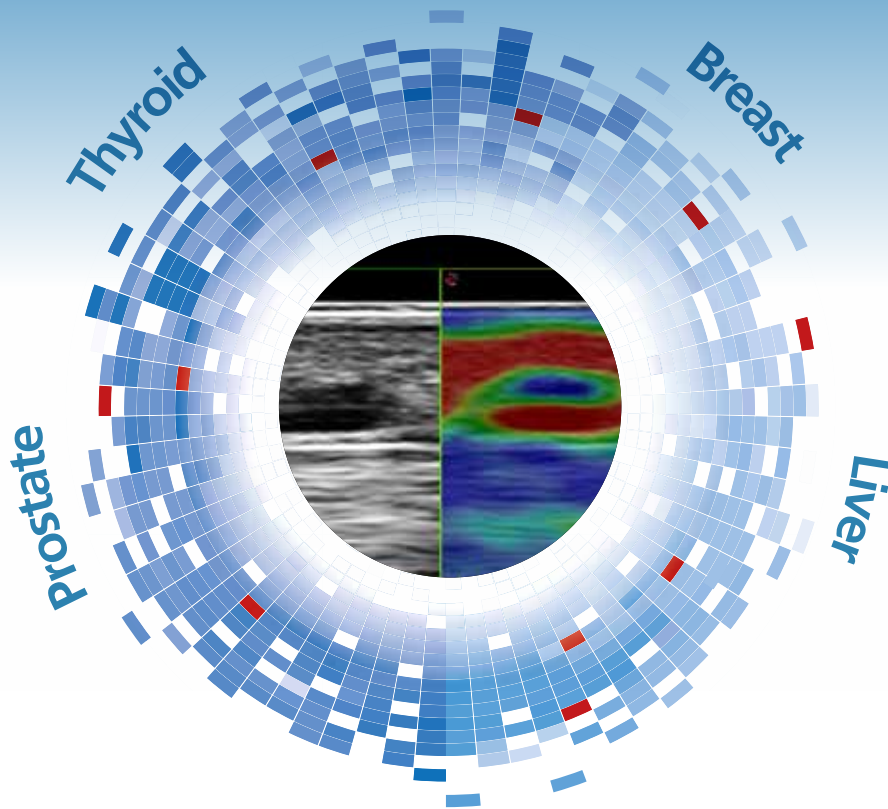
Elaxto is a non-invasive method to support the physician in assessing tissue elasticity. When a mechanical compression or vibration is applied, generally some tissues get deformed less than others. The differences in tissue responses are detected and visualized in real-time by the Elaxto processing algorithms through different graphical representations which help the physician in the daily clinical routine.

ElaXto Clinical Applications and Probes
Esaote's ElaXto technology will support you in assessing body's elasticity in all districts with an Advanced Measurement Package.
- **Linear:** Small Parts, Thyroid, Breast, MSK
- **Convex:** Kidney, Liver
- **Intraoperative**: Small Parts, Abdomen, Thyroid
- **Transrectal & Transvaginal**: Prostate, Gynecology

esaote
Creativity in Healthcare

ElaXto Measurements Package

Hardness/Softness Percentage: to count how many pixels are below/above a fixed threshold along the color palette.
- Tag: palette range selection all highlighted with the same color
- Simultaneous measure in Dual View with complete freedom of measurements: in Freeze, Archive, in any frame of a clip
- Elliptical ROI with possibility to move it with data updated in Real-time
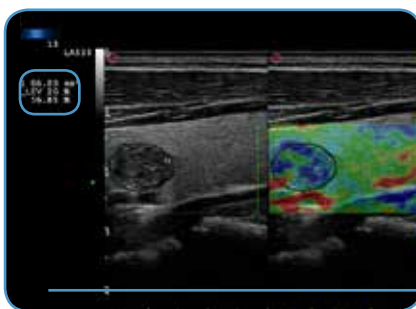
Ratio

Tracing two zones ElaXto will provide the ratio between the strain values in the tissue included in these zones. Free hand or elliptical shape zone traces are available.

Possibility to have an Elliptical Regions for the stiffness and ratio analysis in Real-Time and offline, with raw data export for an easy way of making multipurpose second analysis on the ElaXto's data (clustering, trends, etc). An advanced workstation on board for your research!
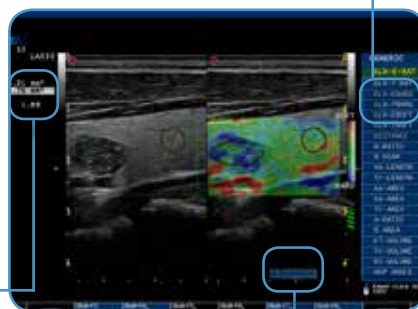
Complete package of ElaXto Measures
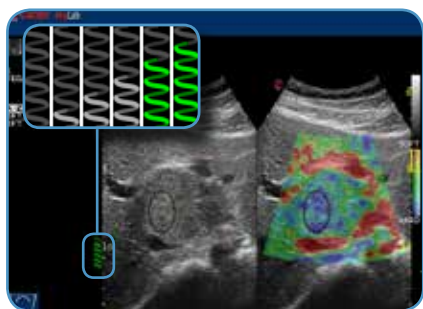
Time acquisition feedback: ElaXto spring


Ratio Hardness/Softness Percentage
Possibility to **Move Measuring ROIs** on the same image and update the results (ratios and histograms)

Possibility to **Repeat** the same measures on another frame (moving the cineloop)

Histogram

Measurements within defined regions of interest allow the user to produce histograms that show the distribution of tissue, from hard (H) to soft (S). The histogram data can be exported into Microsoft Excel worksheets.
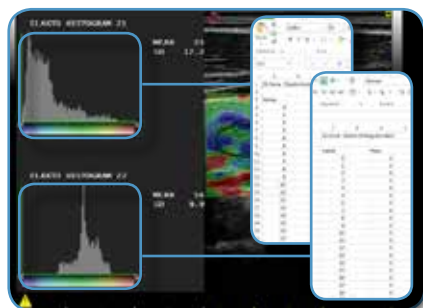
Possibility to **Export row data** in Excel files directly from the unit
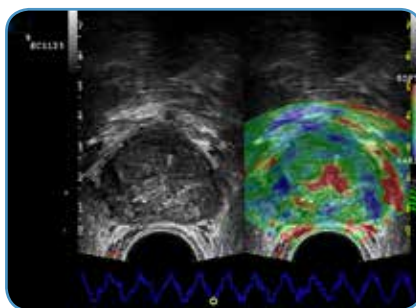
Motion graph - left: compression (yellow circle on the top of the graph) - right: release (yellow circle on the bottom of the graph)
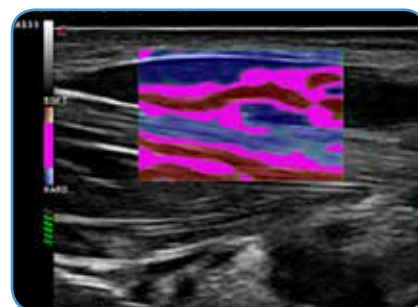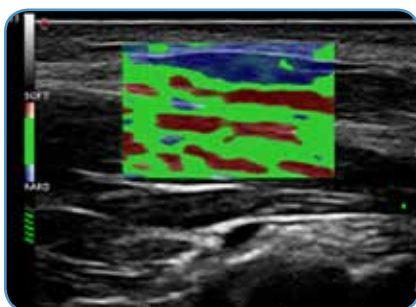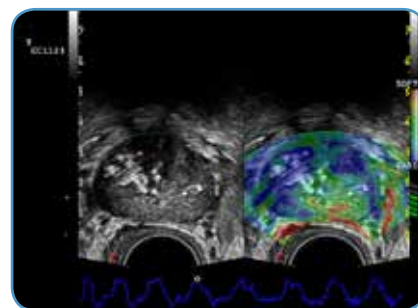
Tag: possible to set a dedicate region in the palette (with a minimum and maximum value). All pixels belonging to this new group will be colored by the same color.

esaote
Creativity in Healthcare