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
**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!

**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.

**Complete package of ElaXto Measures**

- 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)
- 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.