SUPERSONIC imagine

Prostate

MultiWave™ Ultrasound Imaging

Aixplorer®'s MultiWave Technology brings you impeccable imaging quality and real-time ShearWave™ Elastography to deliver unparalleled prostate diagnostic confidence.

Impeccable Prostate Image Quality

Due to its location, the prostate gland poses real challenges to the medical imaging field. The **Aixplorer®** addresses these challenges by providing outstanding lateral, axial and contrast resolution in order to maximize the visualization of fine structures and improve conspicuity of complex areas.

ShearWave Elastography for Prostate Imaging

Breakthrough ShearWave Elastography technology enables the quantitative assessment in kilopascals of prostate elasticity, without manual compression. This operator independent, reproducible tool is useful in assessing focal changes in prostate stiffness to help locate and characterize prostate inhomogeneities and to monitor post therapy. In addition, biopsy can be performed with a simultaneous visualization of both the ShearWave Elastography image and the B-mode image, increasing precision and certainty.

Key Features and Benefits

The SuperEndocavity™ 12-3 Transducer

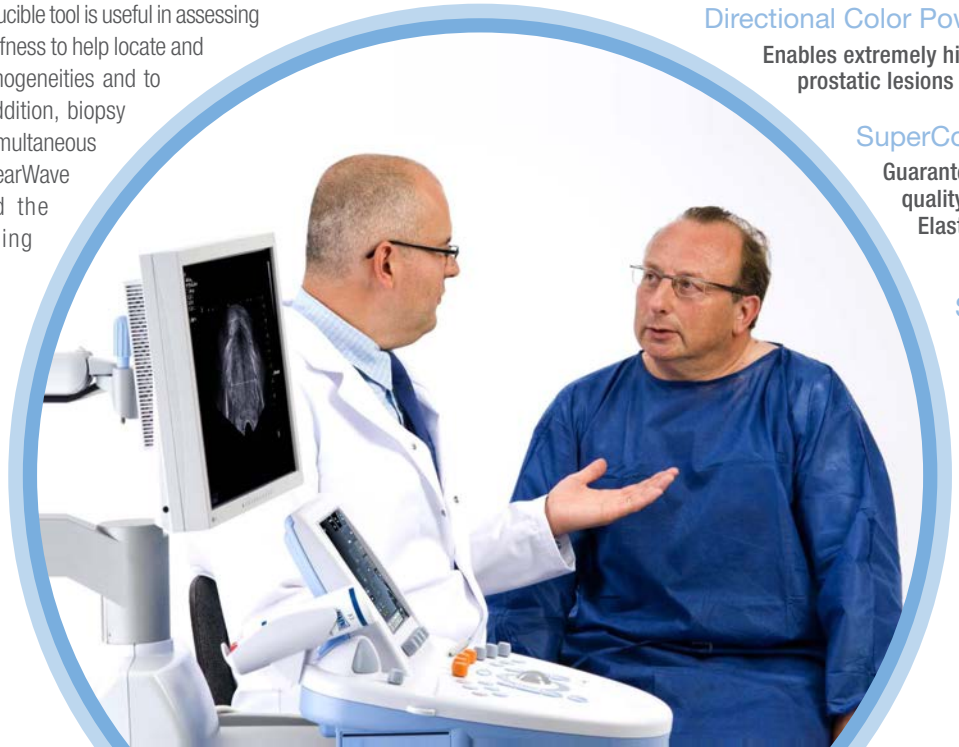
The SE 12-3 broadband transducer is designed specifically for all your prostate clinical needs to give you the most accurate data possible for every exam. This lightweight transducer has been ergonomically studied and validated by physicians and sonographers to fit perfectly in your hand in a relaxed position. The transducer is designed with a small end-fire tip for maximum patient comfort and a convenient handgrip for easy maneuvering.

Directional Color Power Doppler

Enables extremely high sensitivity in evaluating flow in prostatic lesions or prostatitis.

SuperCompound™

Guarantees excellent B-mode image quality while in Color or ShearWave Elastography imaging.



Significant Clinical Studies

- Transrectal quantitative ShearWave Elastography in the detection and characterisation of prostate cancer. Ahmad S et al. Surg Endosc. 2013 Mar 23.
- ShearWave ultrasound Elastography of the prostate: initial results. Barr RG et al. Ultrasound Q. 2012 Mar;28(1):13-20.

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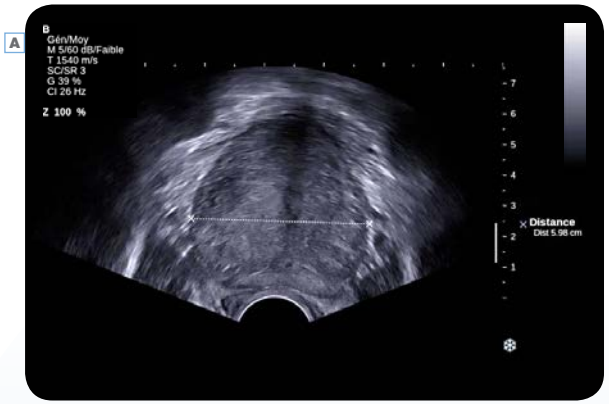
Case studies

A

Impeccable image quality: full view of large prostate (6 cm).



B

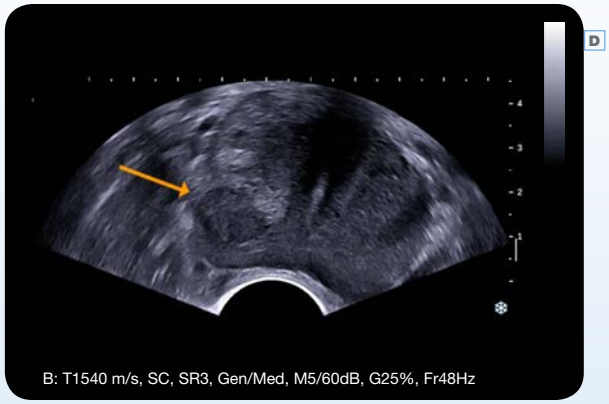
Prostate lobes with coarse and micro-calcifications.

C

Excellent spatial and contrast resolution of a heterogeneous prostate with SuperCompound™ and SuperRes™.

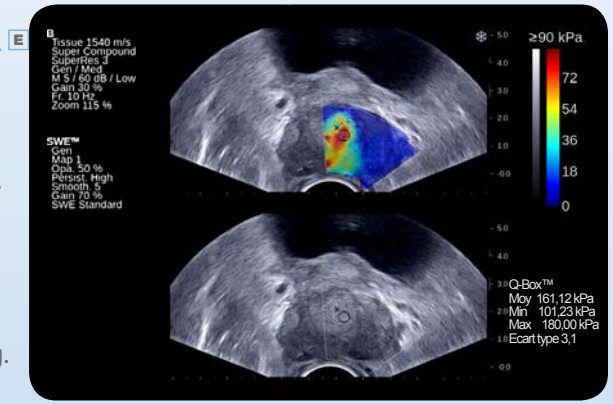
D

Superb contrast resolution of well defined suspicious hypoechoic mass in left lobe.



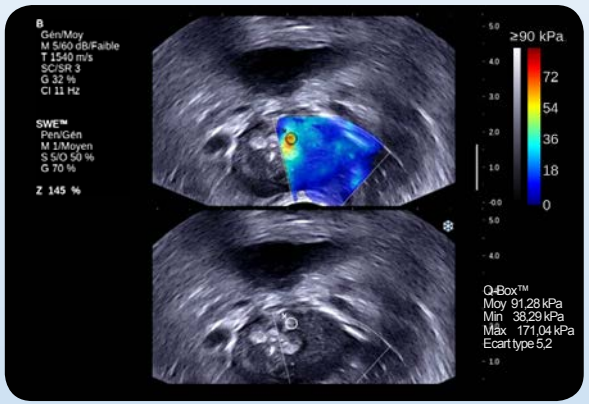
E

Hyperechoic area appears stiffer (100 kPa) compared to surrounding tissue. Excellent B-mode is preserved with SuperCompound in ShearWave™ Elastography imaging.



F

ShearWave™ Elastography map shows prostate calcification as a stiffer region (140 kPa) than surrounding tissue.



AIXPLORER® MultiWave™

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