FUJIFILM
Value from Innovation

the next level in urology ultrasound precision

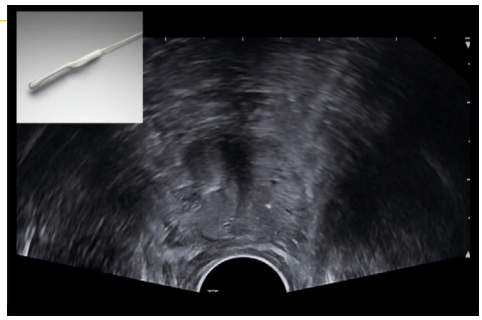
urology imaging

Prostate Imaging

Despite prostate cancer being the most common cancer among European men, we know that patients can be reluctant to see the doctor. This is why our ultrasound solutions are designed to make this process as fast and precise as possible by helping you screen, assess, biopsy and treat your patients more efficiently. Choose from a wide variety of probes and features to match the best biopsy approach - from transrectal or transperineal, to systematic, freehand or targeted.

Choose the transducer that fits your approach

A wide variety of endo-cavity transducers is available to offer you solutions for both types of Prostate biopsy approaches. For transrectal approach you can choose between the different end-fire probes and real-time biplane convex-convex. While, for transperineal approach, our dedicated biplane probes, convex-convex and convex-linear, guide you through the full biopsy procedure.

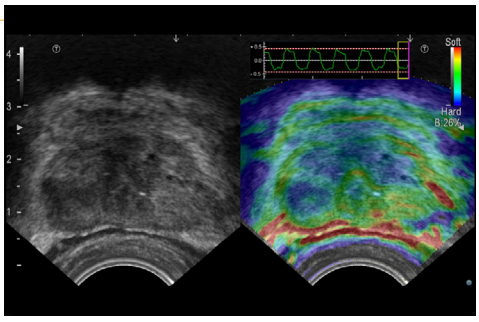


See suspicious signs early and accurately to locate the right spot

The combination of our image processing, probe technology and superior image optimisation tools - like Carving Imaging - capture the subtlest of ultrasound signals. You get crystal-clear, sharp B-mode images of the full prostate gland in high resolution. This gives you a full overview of the organ, and total confidence you've seen everything that you need to see from your screening.

Take a harder look at soft tissue to distinguish affected from healthy areas

Lesions in the prostate can be tough to spot, especially when isoechoic - and thus difficult to differentiate with just B-mode. So why not try complementary methods to view the tissue in another way: by stiffness, for example? Because malignant lesions tend to be stiffer than healthy tissue, you can now improve cancer detection with our strain elastography - which displays differences in tissue elasticity via a colour map. You'll also gain a better understanding of the integrity of the prostate capsule.



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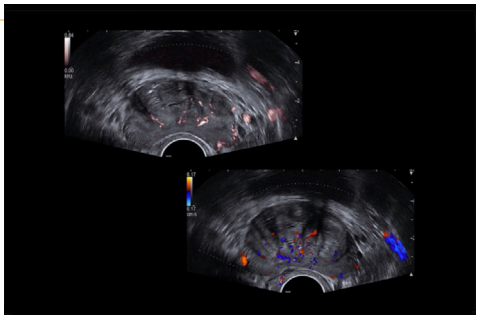
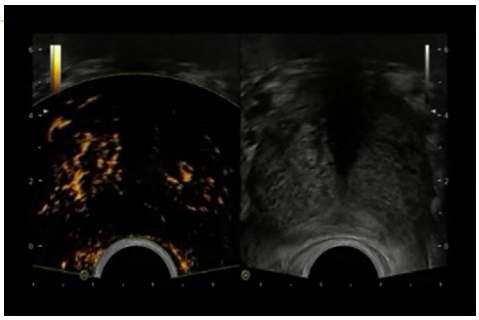
Understand vascularisation within the prostate to identify suspicious areas

Dense or asymmetrical vascularisation in the prostate can be a suspicious sign for a cancerous lesion because it's nourished by the nearby blood vessels. Our Colour Flow, eFLOW and Power Doppler modes display blood flow with high sensitivity - helping you identify areas of increased blood perfusion quickly and easily.



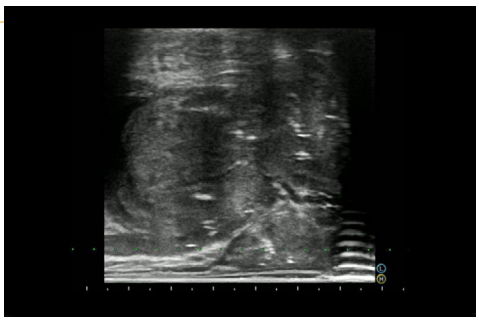
Get a close look at microvascular perfusion

Angiogenesis and vasculogenesis can be a prognostic indicator as prostate cancer evolves. The detailed assessment of this kind of subtle tumour microvascularity can enable better localisation, characterisation and guidance of biopsy or treatment. Which is why our contrast-enhanced ultrasound feature provides vascular information beyond Doppler possibilities, with wideband pulse inversion and tissue reduction techniques – so you can look as closely as possible.



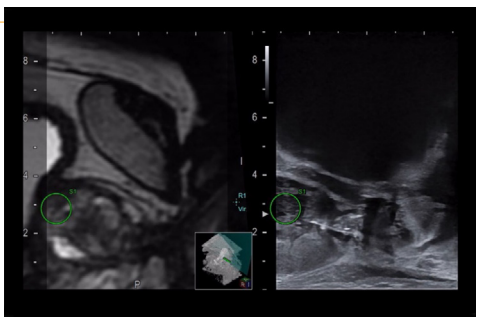
Perform transperineal prostate biopsies under local anesthesia

While TP biopsies can significantly reduce infection rates, they require valuable operating room space and medical staff. Recent trends suggest to simplify this process by performing TP biopsies under local anaesthesia - with our ultrasound guidance. We'll help you adapt your approach, minimise the incision points and thus reduce patient stress – by allowing them to stay awake during the procedure and recover faster.



Plan and guide prostate biopsies with MRI-US fusion imaging

Get a significant tissue sample the first time with an accurate biopsy guidance – whether you approach transperineally or transrectally. With our embedded fusion imaging solution you can combine prior mpMRI data with the ease-of-use of real-time ultrasound guidance. You can even add various ultrasound imaging modes for even greater precision. In fact, these types of targeted biopsies are now highlighted in the recent update of the EAU prostate cancer guidelines.



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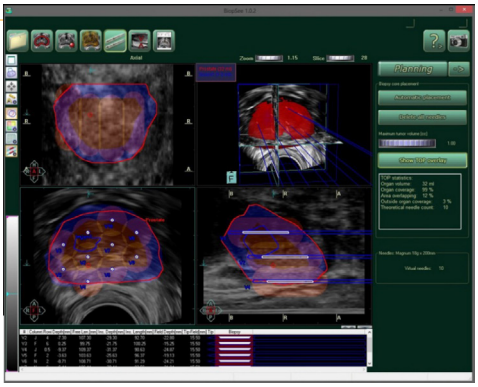
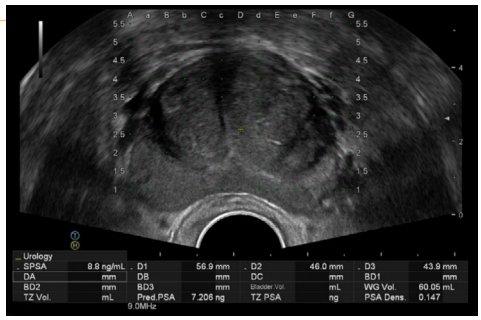
Combined forces for prostate biopsies and therapy

Performing procedures like a transperineal prostate biopsy takes some practice. For practitioners who prefer more dedicated support, we've therefore teamed up with BiopSee™ by MedCom. This prostate-dedicated MRI fusion solution facilitates the process from pre-planning to real-time guidance instructions and core registration – delivering extensive reporting or 3D reconstruction. Similarly, it also provides extra assistance and guidance during focal therapy treatments.



Minimally invasive procedures for brachytherapy or focal therapy treatment

How can you target prostate cancer therapy more precisely? Increasing the accuracy of brachytherapy, cryoablation or electroporation will destroy cancer cells while avoiding damage to healthy tissue; while innovative approaches also protect rectal tissue by injecting hydrogel. For this kind of precise needle guidance, we offer biplane probes to investigate the prostate in both the transverse and longitudinal planes. By combining this with high-quality, complementary imaging modes, you can be sure to hit your target.



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