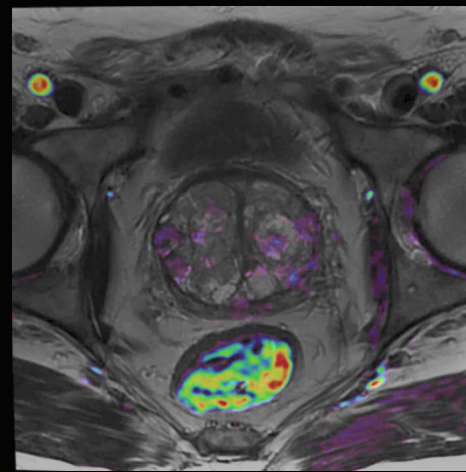
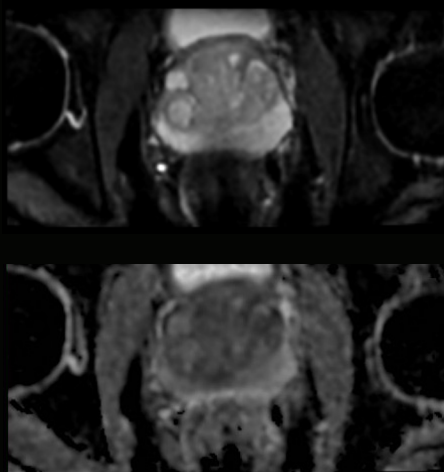




A better experience for prostate imaging patients



TAKE THE RIGHT STEPS FOR EVERY PATIENT WITH FAST AND RELIABLE MULTIPARAMETRIC MR

Does your facility currently have an MR solution for prostate imaging? If not, now is a great time to add men's health imaging to your offerings and lead in the effort to ensure patients get personalized treatment plans that fit their needs. With 23% growth over the last seven years¹, MR imaging is playing an increasingly important role in prostate cancer evaluation for several good reasons.

"Through new SIGNA™Works applications, now we are more comfortable with delivering accurate & solid results for challenging multi-parametric prostate exams."

Professor Fatih Kantarci, MD
Surp Pirgiç Armenian Hospital, Turkey

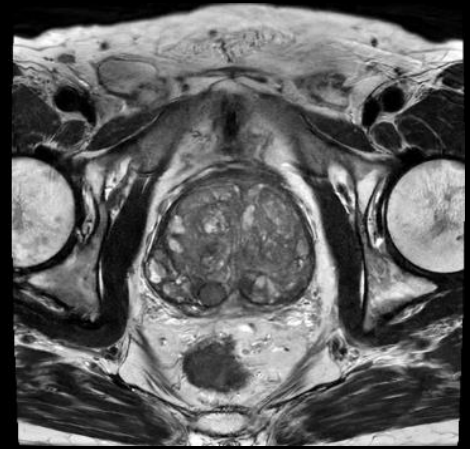
The quest for better

It's recommended that every man over 50 have their PSA checked, and if levels are elevated, diagnostic imaging is needed. Until recently, ultrasound-guided biopsy, was the go-to for follow-up, however results are less than ideal. First, the procedure is invasive and typically uncomfortable, but more importantly, because the area of focus is so small, cancer is missed in 25% of the cases.² These shortcomings have prompted physicians to ask for something better. In fact, per the 2019 IMV Outlook Report, "fast and focused prostate imaging with improved CAD analysis" was specifically called out as top of mind for customers.

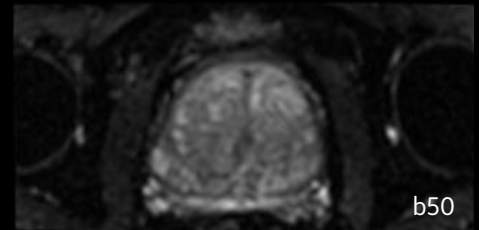
A 15-minute exam with reliable results

Prostate cancer is the 2nd leading cause of cancer-related death in men³, but when caught early, it's often treatable. Because one in six men will get prostate cancer, and because in the U.S. alone, a million undergo a biopsy for the disease each year because elevated PSA is not enough to confirm cancer, it's important to get the diagnosis right. Seeing multiparametric MR can exclude life-threatening cancer with at least 89% certainty⁴ and help reduce the need for biopsy in patients with suspected prostate cancer by up to 51%⁵, GE Healthcare has created an MR imaging solution specifically for men's health. The solution enables a 15-minute prostate exam that produces fast, consistent and measurable results for lesion scoring and standardization, using PI-RADS® v2.1 guidelines. Armed with the information from this exam, physicians can ensure the right actions are taken at the right time for every patient.

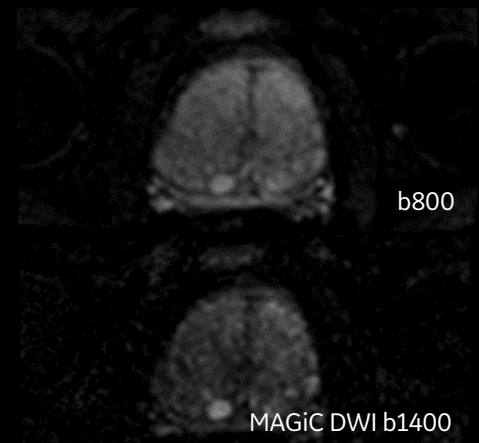
Multiparametric MRI can exclude life-threatening cancer with at least 89% certainty⁴ and help reduce the need for biopsy in patients with suspected prostate cancer by up to 51%.⁵



Axial T2

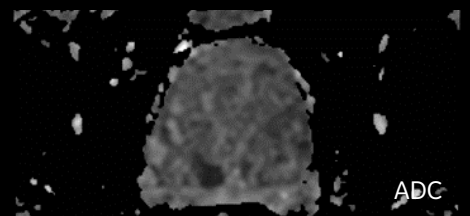


b50



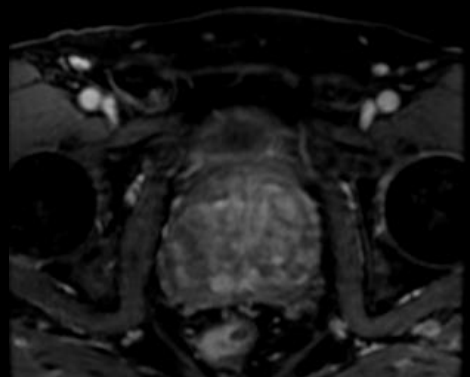
b800

MAGiC DWI b1400



ADC

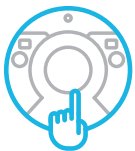
FOCUS DWI with MAGiC DWI



DISCO

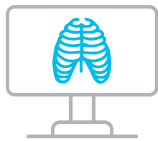
A PROSTATE EXAM THAT'S INTEGRATED AND COMPREHENSIVE FROM START TO FINISH

GE's MR prostate solution consists of one 15-minute exam that's comprehensive, fast and patient-friendly.



Easy, comfortable set up

The exam can adapt to any patient with easy set-up that includes use of the AIR™ Anterior Array or AIR™ Large Multi-Purpose Coil. These coils are up to 51% lighter, and specifically designed for enhanced patient comfort and excellent SNR. Coil optimization is also simplified with AIR Touch™, part of a patient recognition solution that automatically selects the best coil element combinations for each patient over the precise area-of-interest.



Fast, quantifiable imaging

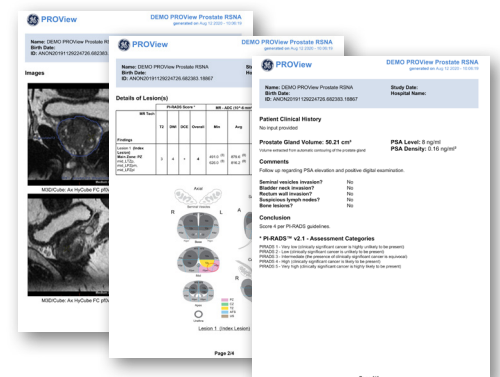
In addition to speedy set-up, the exam is further optimized with a fast and flexible wing-to-wing workflow that leverages key SIGNA™Works applications. These include:

- **AIR™ Recon DL** pushes the limits on spatial resolution for T2 and diffusion imaging.
- **DISCO with HyperSense** to provide extremely rapid 4D dynamic imaging while improving temporal and spatial resolution.
- **FOCUS or MUSE diffusion** and **MAGiC DWI** to increase productivity for high b-values, facilitating visualization of restricted diffusion areas without the expense of scan time.



Automated reporting

And what about results? The comprehensive exam also produces a report within the 15-minute time frame. PROView DL, an automated reporting system that uses deep learning-based auto prostate segmentation for calculated volume measurement, aligns with the PI-RADS® v2.1 reporting and integrates with standard dictation reporting systems. The report includes automated contouring and measurement of the prostate gland that, together with PSA level, help determine the PSA density (PSAD), which is relevant to the size of the prostate.



THE PROVIEW ADVANTAGE

PROView DL leverages deep learning for automated prostate segmentation to deliver consistent quantification results, regardless of who is processing. The system has a guided workflow for simple and standardized assessment that includes an intelligent display of a multi-parametric prostate MR series along with a clinical history of the patient's PSA levels.

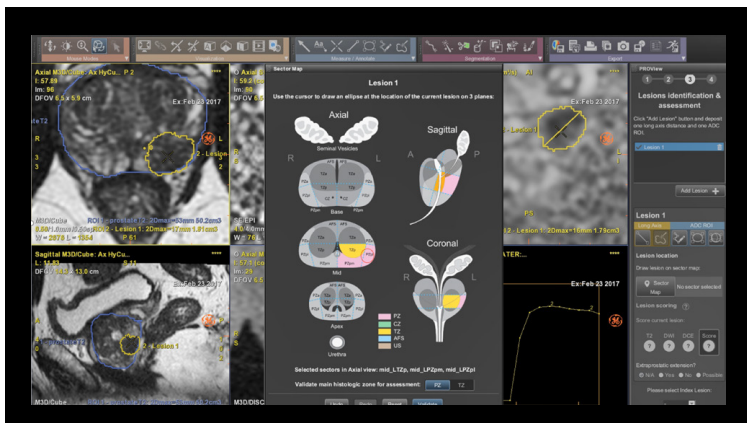
Easy mapping and scoring

In addition to providing a deep learning based, automated contouring and measurement of the prostate gland for volume calculation with extraction and automated calculation of PSAD, PROView DL includes dedicated tools for lesion localization and for reporting on a PI-RADS® sector map. Specifically, PROView DL enables:

- Automatic pre-positioning of lesion on sector map and measurement for peripheral and transitional zones
- Scoring of T2-weighted, diffusion weighted imaging (DWI) with integrated apparent diffusion coefficient (ADC) maps, and, when applicable, dynamic contrast enhanced (DCE) acquisitions.
- Utilizes deep learning for automatic prostate segmentation delivering consistent results for quantification regardless of who is processing.

Automated and flexible

PROView DL has the ability to exceed any physician's expectations with its speed and flexibility to fit into any workflow. Reports are automatically generated along with all measurements and images, and these can be exported into HTML for seamless integration into external reporting solutions or saved through PDF and DICOM to PACS. PROView DL also allows physicians to select key images and manage them at any time during the review.



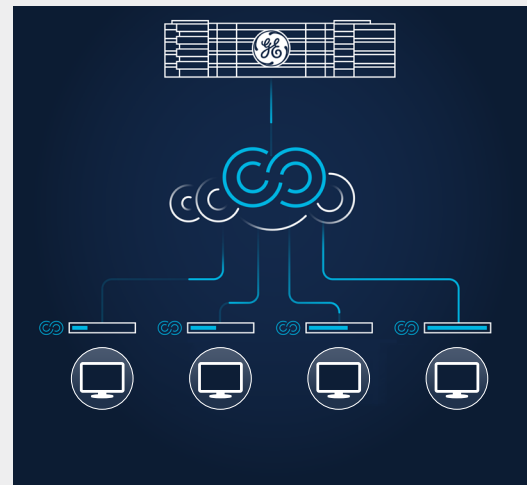
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2. <https://www.uptodate.com/contents/interpretation-of-prostate-biopsy/print>
3. World J Oncol. 2019;10(2):63-89
4. Abd-Alazeez M, Prostate Cancer Prostatic Dis. 2014;17:40-46
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EASILY EXPAND YOUR MEN'S HEALTH CAPABILITIES

Smart Subscription

If you'd love to offer fast, consistent, personalized and quantifiable men's health imaging, but you're concerned about budget, it's time to learn about Smart Subscription. This application program allows MR departments to access the latest technology by allowing the cost of post-processing software to be spread out over time. When you subscribe, you'll have continued access to the latest MR capabilities like PROView DL through a GE provided server.

How it works

Smart Subscription creates a cloud-like environment within your facility's firewall that enables seamless processing and data transfer from anywhere within your network. Because radiologists are able to read and report from any workstation and experience fewer interruptions, you should see faster turnaround times for physicians and faster treatment for patients, saving you both time and money.

Read more about it

You can read more about the benefits of the Smart Subscription program in [SIGNA™ Pulse of MR magazine](#).