



 **Invivo**
inspired by a better way

 **UroNav**
FUSION BIOPSY SYSTEM





The Next Generation of Prostate Care from Invivo

Current methods of prostate cancer screening, such as prostate-specific antigen (PSA) tests and digital rectal exams (DRE), are somewhat inconclusive and can lead to many uncertainties for both patient and urologist. Prostate biopsy, the most reliable method of detection, is a challenge because of the difficulties in visualizing not only the entirety of the prostate, but also the location of the biopsy needle. Transrectal ultrasound-guided prostate biopsy (TRUS), the current biopsy standard, often results in poor image resolution, and the biopsy needle can pass through tumor-free areas of the prostate potentially missing the tumor entirely.¹



MR/US fusion aligns and registers prior diagnostic MR images (bottom) with real-time ultrasound images (top). The purple outline displays the segmented prostate anatomy from the MR exam and green/red "targets" indicate the location of the MR suspicious lesions.[†]

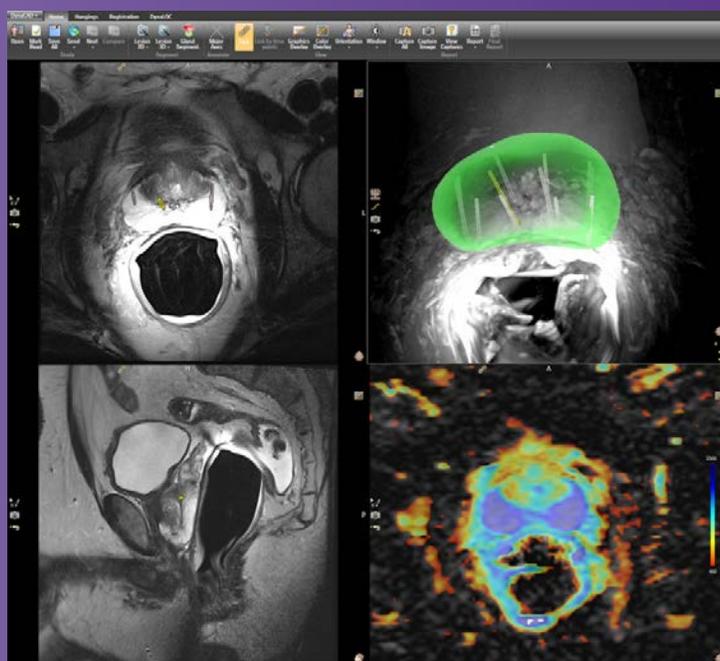
Targeted MR/ultrasound biopsy is poised to become a new standard in prostate care. This technique fuses pre-biopsy MR images of the prostate with ultrasound-guided biopsy images in real time, for excellent delineation of the prostate and suspicious lesions, as well as clear visualization of the biopsy needle.

¹ Pinto PA, Chung PH, Rastinehad AR, et al. Magnetic resonance imaging/ultrasound fusion guided prostate biopsy improves cancer detection following transrectal ultrasound biopsy and correlates with multiparametric magnetic resonance imaging. *J Urol.* 2011;186:1281.

No complex mechanical devices or complicated, time-consuming set-up routines.

Better Images Mean Better Results

UroNav brings the power of MRI to the Urology suite as prostate and lesion segmentation data from Radiology are quickly and easily transferred to UroNav for review and target identification. This critical exchange of diagnostic information fosters enhanced collaboration between Radiology and Urology in the assessment and biopsy of suspicious prostate lesions. Further, biopsy core location data can be sent back to Radiology and viewed on DynaCAD as a "reverse fusion" with a pre- or post-biopsy MRI.



Reverse fusion biopsy core locations viewed on DynaCAD.



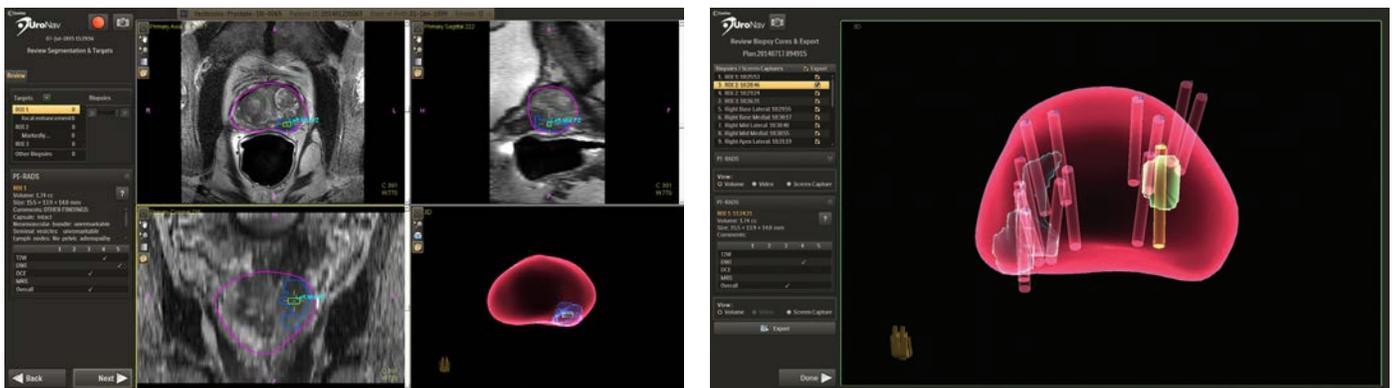
We Work How You Work

UroNav is fast and powerful, with a simple workflow and unique features designed to suit you and your clinical needs. With a simple click, the navigation sensor attaches to your existing ultrasound transducer*.

UroNav Fusion Biopsy System Provides:

- Robust, 3D gland segmentation modeling and flexibility to perform dynamic adjustments of the ultrasound segmentation boundary.
- Support for both transperineal and transrectal biopsy approaches - providing the flexibility necessary to incorporate fusion-guided biopsy into your preferred biopsy method.
- Ultrasound-only work flow for guided navigation without the need for pre-biopsy MR data.
- Display of prior biopsy core locations and data from previous procedures performed with UroNav.
- Elastic (deformable) and rigid registration options - allowing you to select the registration technique best suited for your patient data.
- On-the-fly registration adjustments, which can be made in seconds without the need to restart the fusion procedure.

Following the biopsy procedure, biopsy core location data, images, and videos can be sent to DynaLync Prostate (sold separately) for review at any time. Pathology data, including digital reports, can be added and reviewed on DynaLync Prostate following the biopsy.



From setup to post-biopsy review, UroNav guides you through its intuitive workflow.[†]

A Better Way

UroNav fusion biopsy system combines electromagnetic tracking and navigation, similar to the GPS in your car, with an onboard computer and a real-time imaging interface in one easy-to-use, mobile workstation.

A small, localized electromagnetic field is generated and used in conjunction with a navigation sensor mounted to your existing ultrasound transducer*. Simply position the navigation system above the patient and you're ready to take advantage of UroNav's simple, guided workflow – which follows the same TRUS biopsy procedure that you are used to.



The UroNav electromagnetic field generator is positioned above the patient's pelvis.



*UroNav navigation sensor is mounted to your existing TRUS probe.**



***Contact Invivo to ascertain compatibility with your system.**

Invivo is a leader in prostate care,

with products and solutions that bridge clinical workflow across multiple specialties, and world-class customer service and applications support.

UroNav Fusion Biopsy System:

- Supports transrectal and transperineal approaches
- Provides a simple, guided workflow
- Leverages diagnostic MR data from DynaCAD
- Built on over 7 years of clinical R&D
- Backed by dedicated technical & marketing support



For more information about UroNav or any of the Clinical Solution products from Invivo, please call us at 1-800-INVIVO1, or visit our website at www.invivocorp.com



† Images courtesy of Art Rastinehad D.O.

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