



**Compare** conventional “blind” biopsy and smart fusion-targeted biopsy:

Conventional  
ultrasound biopsy  
Fusion-targeted  
biopsy

SCAN		Conventional ultrasound biopsy	Fusion-targeted biopsy
View 3D color, real-time mapping of prostate using live ultrasound image			■
FUSE	Fuse MRI images with real time ultrasound		■
Both rigid and non-rigid image registration			■
BIOPSY	Standard TRUS template biopsies	■	■
	Custom biopsy plans	■	■
	Easily target suspected cancerous lesions		■
	Guide needles to specific regions having a high statistical likelihood of cancer		■
Patient motion compression during targeted fusion and non-fusion biopsies			■
REVISIT	Record and review targeted samples for better accuracy in active surveillance program		■
	During revisits, overlay current and prior volumes using elastic deformation		■

This brochure was developed for the purpose of patient education only. It should not be construed as medical advice for evaluation, diagnosis or treatment of any specific person or condition.

While we participate in most health plans, some costs may not be included in your specific coverage - please be aware of your benefits and keep in mind that any costs not covered by your health plan will become your responsibility. Please call our billing office: 570-342-7864 if you have any questions or concerns.

### Questions?

If you have additional questions or concerns regarding the procedure, please contact us:

**Delta Medix Urology**  
**300 Lackawanna Ave, Suite 200**  
**Scranton, PA 18503**  
**570-342-7864**



**DELTA MEDIX**  
 UROLOGY

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# Revolutionary Prostate Imaging Technology Gives You Treatment Options...

**ASK YOUR DOCTOR ABOUT SEMI-ROBOTIC 3D MRI/US FUSION-TARGETED BIOPSY**



...and **Peace of Mind!**



## A better way to detect and diagnose prostate cancer

If your doctor suspects cancer as a result of prostate-specific antigen (PSA) blood test or an abnormal rectal exam, you may need a prostate biopsy.

In the past, men with elevated PSA levels were sent for multiple random biopsies of prostate tissue. These biopsies are often referred to as “random” or “blind” because physicians could not see the specific location of abnormal tissue. In some cases, the inaccuracy of these biopsies resulted in an overly aggressive treatment of insignificant tumors, or missed detection of serious cancers.

An alternative method for prostate cancer detection, diagnosis and monitoring has recently become available to patients. The Semi-Robotic 3D MRI/US fusion targeted biopsy combines advances in prostate imaging with traditional trans-rectal ultrasound for a targeted, more accurate ultrasound-guided biopsy of the prostate.

## How does it work?

First, an MRI exam of the prostate detects suspicious areas that can't be seen on ultrasound, but can be cancerous. The Radiologist marks these areas in a process known as “mapping.” On the day of the patient's biopsy procedure, the patient will be positioned onto their left side and receive anesthesia to make them comfortable during the procedure. The Urologist will then use ultrasound imaging to obtain more images of the prostate. The ultrasound images will be fused with the MRI mapping to create a model of the prostate. The Urologist uses a semi-robotic arm to navigate the ultrasound probe and biopsy instrument to target the suspicious locations that were mapped by the Radiologist. Multiple specimens are taken of these areas for further examination. The entire procedure takes about 30 minutes.

## The appointment:

The MRI/US fusion biopsy will be performed in a hospital or a surgery center setting. Monitored “twilight” anesthesia care (similar to colonoscopy) is required to ensure a quality biopsy is performed. You will not be allowed to drive yourself home after the biopsy is completed – all patients are required to have a driver home from the hospital/surgery center. You will be asked to arrive approximately an hour prior to the biopsy. The biopsy itself typically takes around 30 minutes. Afterwards, the nursing staff will monitor your recovery for about an hour before releasing you to go home.

You should expect to spend 3-4 hours total at the hospital/surgery center on the day of your appointment.

Walk away from your procedure with the **peace of mind** of knowing you received the **most accurate and thorough** investigative biopsy available.

Patients are typically able to return to work the next day.

Most patients experience blood in the urine for a few days- several weeks following the biopsy. You may also see blood in bowel movement, which can be cleared by resting and drinking plenty of water. Patients can expect to see blood in their semen for 4-6 weeks following the biopsy.

If a patient becomes unable to urinate, or develops a 100.0° fever following a biopsy, please call our office: 570-342-7864.

