



## Hear what leading urologists are saying about MR/US Fusion Biopsy

"This technology was designed for the busy Urology practice that needs to get the fusion biopsy completed quickly and move on to other patients."

"MR/TRUS Fusion will become the standard of care within a short period of time"

"We believe that MR/TRUS Fusion will quickly become the standard of care"

"We found that the BioJet software enables more precise results. We will continue to test the limits of fusion technology as our new standard of prostate care."

"The discovery that will have the greatest impact on our field is the development of accurate imaging of tumors within the prostate"

"We want the serious cancers to get picked up and treated and the ones that are not serious not to get treated"



# BioJet

## A Revolutionary Technology For MRI/US Fusion Prostate Biopsy

STATE OF THE ART DIAGNOSIS  
WITH MINIMAL BIOPSIES TAKEN



Development and Distribution

**DK Technologies**  
dktech.de  
Kanalweg 7 / 21357 Barum  
E-mail: info@dktech.de  
T +49 (0) 4133 - 51 01 85

Changes in technology reserved  
BI-00-000-02-0210



## WHY BioJet MRI/US Fusion?

- MRI is not an effective tool for guiding a biopsy needle, but MRI is a superior imaging modality for visualizing areas of interest (possible cancer).
- Ultrasound cannot visualize areas of interest (possible cancer), but it is a superior tool for guiding a Biopsy Needle.

## Based upon these advantages and limitations with MRI and Ultrasound DK Technologies developed the BioJet 3D MRI/US Fusion Prostate Biopsy System

BioJet is a flexible, advanced navigation platform that enables an accurate detection of suspicious lesions by combining MRI and real-time Ultrasound. It can be a safer and a more effective alternative to a standard ultrasound guided prostate biopsy, which in fact, has several limitations. It can miss significant lesions or can randomly detect less aggressive tumors, missing the most dangerous. This may lead to an underestimation of the patient's clinical situation. No concerned patient wants to be misdiagnosed year after year. The BioJet MRI guided "fusion" prostate biopsy instead, enables enhanced detection of "regions of interest" and can reach all tumors with extreme precision. We believe this technology will dramatically change the way prostate cancer is managed and treated.

## SEE INSPIRATION IN ACTION

- Accurate, Reliable Diagnosis compared to Standard TRUS Biopsies
- Precision Needle Placement
- Only System supporting both Transrectal and Transperineal Biopsies
- Compatible with most ultrasound systems
- Extremely Mobile (small footprint)
- Reproducible for re-biopsy and active surveillance
- Improved Diagnostic Accuracy (identifies regions of interest)
- Enhanced detection of suspicious lesions by combining MRI and Ultrasound in real time.
- Easy work flow between Urologist and Radiologist
- Patient positioning remains unchanged
- No additional costs for disposables



## BIOJET FUSION IN ACTION



### 1. Contour gland and regions of interest

We are using T2 transversal MR Images (best 3 Tesla) to contour the the Prostate. In a second step we mark the regions of interest (ROIs) which could be lesions or other suspicious regions.



### 2. Fuse the MR Images to Live Ultrasound

To fuse MRI with TRUS in real-time we match the contour of the Prostate to the shape of the prostate in live ultrasound. This has to be done in both, the transversal and sagittal image planes.



### 3. Biopsy Targeted Areas of Interest

To take out biopsies transrectally simply match the biopsy guideline to the first region of interest. After shooting the needle the biopsy can be marked and the software automatically acquires a screenshot for documentation.

\* A report with all the detailed information is generated, graphically showing the sampled areas with exact locations.