



Biojet



MML | Medical
Your strategic partner in medical devices

3D Real-Time MRI-Fusionbiopsy Precise, Quick and Easy



MTT





Based upon the advantages and limitations of MRI and Ultrasound we developed the BioJet 3D MRI/US Prostate Image Fusion Biopsy System

BioJet is a flexible, advanced navigation platform that enables accurate targeting of suspicious lesions by combining MRI and real-time ultrasound. It is a far more effective alternative to standard ultrasound guided prostate biopsies or even template based cognitive biopsies, which, in fact, have numerous limitations.

BioJet is a true real-time system – fast and easy to use. No recontouring of the ultrasound images required to fuse the two image-series. Elastic corrections are possible but mostly not required – do it right in the first place!

Key Features

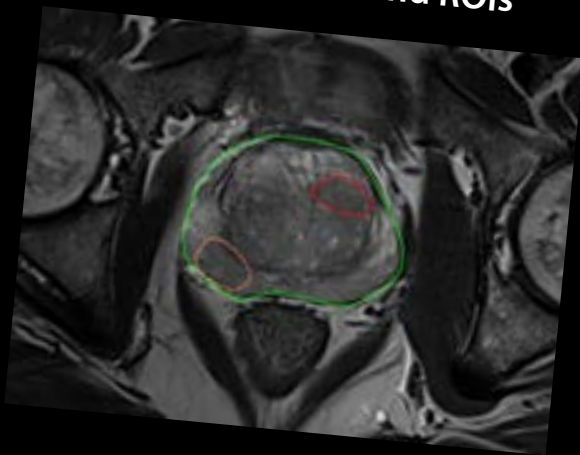
- High precision “hands free” approach
- Workstation compatible with most ultrasound systems
- Extremely mobile with small footprint
- Active surveillance optimized
 - Easy link between radiology and urology
 - Stable system with one time calibration
 - Fully PACS compatible
 - Transrectal and transperineal solutions
 - Supports prostate mapping
 - Multipurpose stepper / stabilizer tracking system
 - Datatransfer to HiFu systems
 - True 3D real-time fusion
 - Quick and easy - up to 4 patients per hour





BIOJET FUSION IN ACTION

STEP 1 Contour Prostate and ROIs

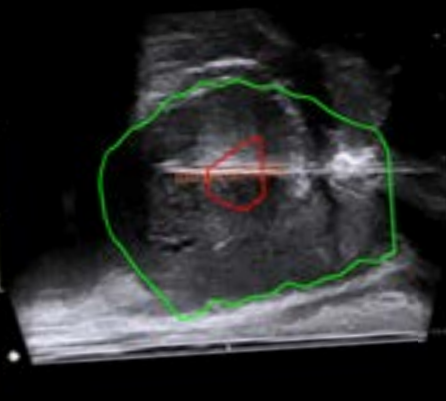


Use T2 transverse MR images to contour the prostate. In a second step mark the ROIs which could be lesions or other suspicious areas.

STEP 2 Real-Time Fusion Biopsy

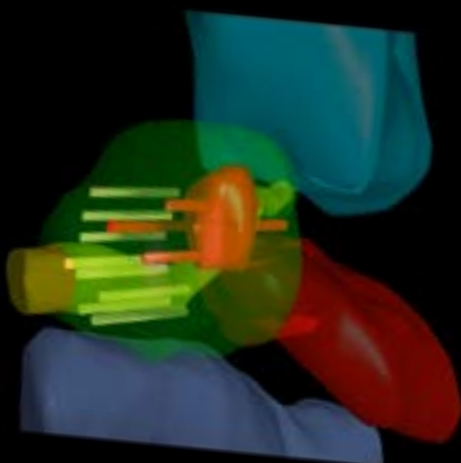
bk3000

10-12-2014 10:40:42
1340-46 1
B Mode 5.146
HG 1.75x1.20
TR 0.0x4.0
Pw / H 202.14
B Gain 5.4 dB
Dyn Range 80
Harmonic Off
Prest 0
B Edge 0
Wave Packet 0
E/D 1



To fuse MR with TRUS in real time move the MR contour of the prostate to match the shape of the prostate in live ultrasound. This is done in both transverse and sagittal image planes. Harvest biopsies transrectally or transperineally. A 3D model of the prostate helps to visualize the positions of the ROIs.

STEP 3 3D-Documentation



The biopsies are documented automatically and they are displayed in a real-time 3-D model. A detailed biopsy report can be generated, this report includes all the important information on the ROIs and biopsy positions. This report is fully customizable.

Hear what Leading Urologists are Saying about BioJet MR/US Image Fusion Biopsy



"This technology was designed for the busy urology practice that needs to get the fusion biopsy completed quickly and effectively."

"MR/TRUS Fusion has become the standard of care within a short period of time and BioJet is becoming the Gold Standard."

"With BioJet we are diagnosing more aggressive cancers very early and less of the insignificant cancers."

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

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

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

