leading innovation in medical imaging





Virtual MRI Guided Prostate Biopsy MRI/Ultrasound Fusion Technology 3D Semi-Robotic Targeting



Advanced 3D Imaging

3D DICOM Visualization
PACS Compliant
Prostate & ROI Contouring
Perfusion-Diffusion Analysis
Data Transfer via USB, DVD, Network or Cloud
Image Histogram Analysis
Easy & Efficient Workflow

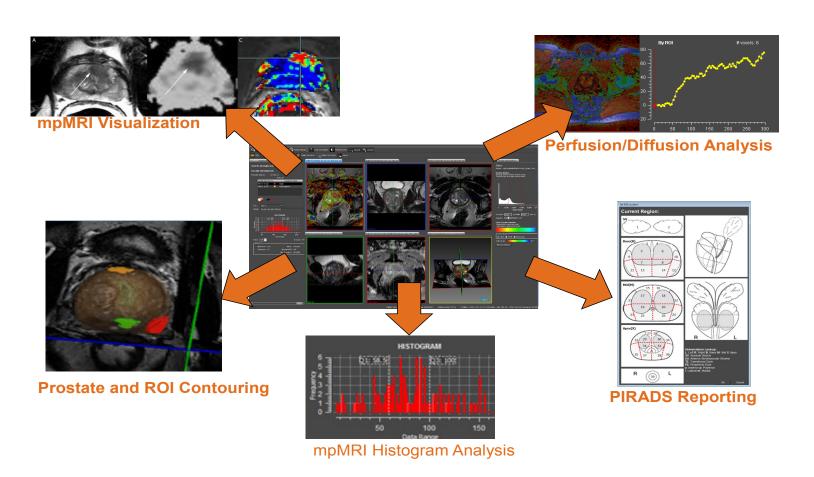


Integration of pathology results into MRI for review and treatment planning, e.g. Focal Therapy

ProFuseTM



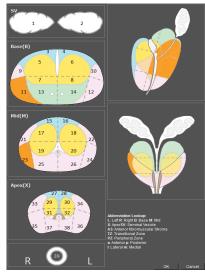
ProFuse is a powerful mpMRI DICOM viewer that enables radiologists, urologists or radiation oncologists to identify and confirm potential prostate MR lesions for biopsy. It writes and reads from PACS. It is easily configured to user's choice. It allows advanced calculation to confirm lesion grading. Setup is quick and easy with remote license activation. The end-user receives 3-user licenses as part of the bundle platfom. This allows multiple locations to read mpMRI and mark regions of interest for biopsy procedures. Training on the software is easy and provided on-site.



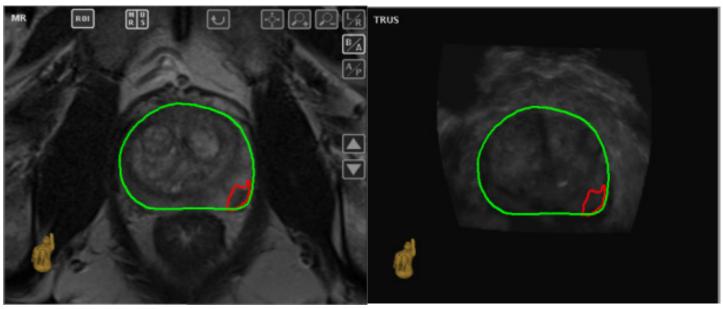
ProFuse



Multi-Modality Image Fusion



Supports PET/CT/MRI/US Fusion
Automatic Rigid & Elastic Fusion
With or Without Endorectal Coil
All MR Scanners & Protocols
PIRADS Reporting & Scoring
Accounts for Bladder/Rectal Filling



MRI

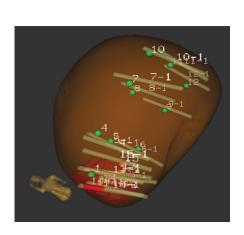
Ultrasound

Integrate information from mpMRI into TRUS guided biopsy





Precision Targeting Eliminates prostate deformation for high accuracy of targeted biopsy





Targeted MR/Ultrasound Biopsy Patient Motion Compensation Custom Template Biopsy Plans Compatible with all U/S systems

Easy Calibration

Targeted mpUltrasound Bx

Electromechanical Probe Stabilization

3D Needle Visualization & Pathology Recording 3D Semi Robotic Navigation for Prospective Targeting Detailed Reporting including Previous Biopsy Cores

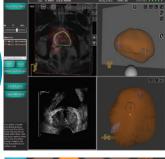




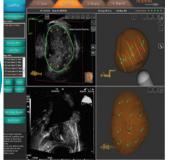
precisely target suspected lesions in a repeatable manner



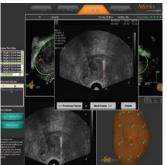
Plan



Fuse



Biopsy



Report



Artemis lets your physician examine, map, plan and record your biopsy. Its 3D detail lets you see the precise location of suspicious tissue and/or cancer lesions. This results in advanced clinical information to aid in your diagnosis, treatment and continuing patient care.

Artemis

Benefits

Clinical

Avoid *freehand biopsy* errors
Early detection of malignant tumors
Easy guidance to target anterior lesions
Active surveillance & focal therapy
Reduce repeat biopsy sessions

Operational

Quick set-up & intuitive workflow
No sensor-based needle supplies
No specialized room
PACS, cloud & network connectivity
Compatible with all MRI and U/S systems
Seamless radiology-urology integration

Financial

Reduce unnecessary biopsy costs
Reduce unnecessary supply costs
Cost benefits of early detection of PCa
Increased patient satisfaction & retention



Clinical PCa Detection Rate

Conventional U/S

Blind Poke & Hope Procedure

Detection Rate: 27-40%

False Negative Rate ~47%

38% Repeat Biopsy within 5 Years

Often Anterior Lesions Missed

(Patel AR et al. Curr Opin Urol 2009; 19:232)

mpMRI

Combine Anatomical & Functional Imaging Comparison of 3 Protocols in 83 Patients

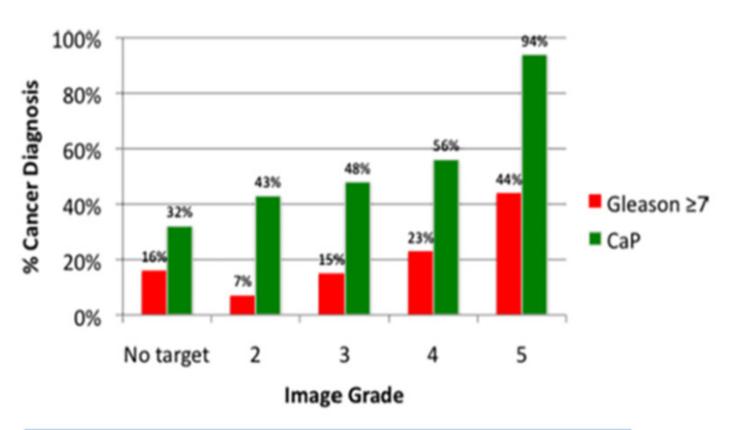
Protocol	Sensitivity	Specificity	Accuracy	AUC
T2W	73%	54%	64%	0.711
T2W + DWI	84%	85%	84%	0.905
T2W + DWI + DCE	95%	74%	86%	0.966

(Tanimoto A, JMRJ 2007)

Multiparametric MRI has excellent sensitivity for detecting aggressive PCa Gleason score 7 or higher



Commitment to Evidence-Based Medicine



# Patients	19	14	61	61	16
# Any CaP	6	6	29	34	15
# Gleason ≥7 CaP	3	1	9	14	7

94% of men with image grade 5 on MRI had PCa

J Urol. 2013 Jan; 189(1): 86-91.

Accurate targeting of lesions identified on mpMRI using ultrasound fusion biopsy in clinic

Workflow



PACS Connectivity

Reading and Target planning

Data Transfer

Ultrasound

Image Fusion

Biopsy Planning

Precision Guidance & Recording

Reporting & Documentation

ProFuseTM

Artemis[™]

leading innovation in medical imaging



eigen brings innovation to prostate biopsy & focal therapy



FDA, CE, TGA, CMDCAS Certified

World-class customer support and service

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