



RECOMMENDED RESOURCES

For Image Guided Biopsies and Organ-Sparing Treatments

PURPOSE: Our goal is to offer an improved clinical service for, and assistance men with, suspect prostate cancer. We know from the scientific literature and our own experiences that MRI offers the best biomarker for prostate cancer (PCa) and we are offering this high confidence (>80% Positive Predictive Value as well as Negative Predictive Value with Screening – approx. 10% higher with full diagnostic scans) screening and early detection at a very affordable out-of-pocket fee priced less than the co-pay for an insurance-paid MRI. Further, insurance is challenging to obtain for an MRI and typically is not approved unless other clinical steps have already been employed – regardless of the fact that MRI is superior to all other diagnostic modalities. **So, the dilemma is what to do when a man presents with an elevated PSA, or has the symptoms associated with BPH or Prostate cancer, or is any man over the age of 50 years old, or any man over 45 who has immediate family who has or had PCa, or any African-American male over 40 years old – these ALL recommendations for PCa screening by the American Cancer Society.**

Facilities Offering Image Guided Biopsies and Organ-Sparing Treatments

The following centers are being recommended by FirstScan because of their early adaptation to either or both image guided biopsies (FUSION or MRI) and guided or Focal treatment options intended to be organ-sparing. These image guided biopsy technologies stand in stark contrast to older modalities of prostate cancer detection: digital rectal exam and non-image guided (blind) biopsies in that they are much more accurate in both detecting and ruling out clinically significant cancer.

The crux of successful cancer detection using mpMRI is answering the critical patient care question of “what do I do now”. Once the radiology report comes in with a PI-RADS™ score indicating cancer, it has been proven that many men qualify for an organ-sparing treatment in lieu of those procedures that have produced a high rate of undesirable side effects. Focal treatments should be offered to men with cancerous lesions detectable on MRI, and within reasonable limits of disease progression. Focal treatments offer significantly improved odds of retaining sexual and urinary control functions over surgery and other total organ ablation methods. For a highly referenced summary and comparison of these technologies, please refer to the attached document entitled “**An Overview of Current Clinical Studies of Prostate Cancer (PCa) Detection, Validation, Surveillance, and Treatment Options – Justification for MRI PCa Screening.**”

Definition of Terms with Abbreviations:

Guided Biopsy – Biopsies guided by imaging which allows visualization of target lesions. There are two types, FUSION and In-bore MRI guided.

Fusion Guided Biopsy (F) – This utilizes a prior obtained 3D Magnetic Resonance Image set superimposed, via special computer software, onto a transperineal Ultrasound (US) image to provide intrarectal biopsy probe guidance into the virtual target of the fused MRI and real-time US images.

In-bore MRI guided biopsy (MR) – As the name implies, this method of biopsy needle guidance utilizes real-time image targeting of the needle into the lesion while the patient and needle mount are positioned in the MRI bore and visual confirmation of the biopsy needle is provided by updated MRI scanning.

Organ Sparing Treatment Options

Note that the options presented herein are only those considered organ-sparing or those that produce the minimal amount of undesirable side effects such as ED and urinary incontinence. Those with a high degree of side effects are purposefully omitted. These options are recommended for candidates who have visible lesions which meet certain criteria in terms of lesion number and size, and the radiologist's reported PI-RADS™ score. This is an American College of Radiology scoring mechanism to assess the presence of clinically significant cancer. These criteria vary according to the research protocols of the institutions delivering the treatments.

Definition of Abbreviations used to describe organ sparing treatment options available by institution on the following page.

BC = Biological/Chemotherapy

Br = Brachytherapy

Cr = Cryotherapy

FR = Focused Radiation Therapy (unique to the Calypso focusing system)

Im = Immunotherapy

LA = Laser Ablation

PT = Proton Therapy

KANSAS CITY UROLOGY CARE

Overland Park, KS

Offers a MRI/Ultrasound fusion biopsy.

David Bock, MD, FACS (Urologist)

913-647-4151

John Strickland, MD (Urologist)

(913) 831-1003

<http://kcurology.com/>

Guided Biopsy: F

Treatment Options: Br

UNIVERSITY OF CHICAGO MEDICINE

Chicago, IL

MRI guided biopsies and MRI/Ultrasound fusion biopsies.

Scott Eggener, MD (Surgeon/Oncologist)

Arieh Shalhav, MD (Surgeon/Urology)

Aytekın Oto, MD (Radiologist)

1-855-702-8222

<http://www.uchhospitals.edu>

Guided Biopsy: F

Treatment Options: LA

MAYO CLINIC OF ROCHESTER

Rochester, MN

Radiation, hormone, biological and chemotherapy. They also offer a few rare types of treatments: Cryosurgery or MRI guided cryoablation.

Lance A. Mynderse, MD

(507) 266-3066

<http://www.mayoclinic.org>

Guided Biopsy: F, MR

Treatment Options: BC, Cr, H

DESERT MEDICAL IMAGING

Indian Wells, CA

Offers MRI guided biopsy's and with a Positive Result - MR Guided Focal Laser Ablation.

John Feller, MD (Radiologist)

Stuart May, MD (Radiologist)

(760) 694-9559

<http://www.desertmedicalimaging.com>

Guided Biopsy: MR

Treatment Options: LA

NEBRASKA MEDICINE

Omaha, NE

Offers a specialized radiation treatment using the Calypso 3D Localization System.

Charles Enke, MD (Radiation Oncologist)

(402) 552-3844

<http://www.nebraskamed.com>

Guided Biopsy: NA*

Treatment Options: FR

NE Medicine does use MRI to provide targeting for the Calypso Radiation System

UNIVERSITY OF TEXAS:**MD ANDERSON CANCER CENTER**

Houston, TX

Offers Focal Laser Ablation.

John Ward, MD, FACS (Urology Surgeon)

(877) 632-6789

<http://www.mdanderson.org>

Guided Biopsy: F

Treatment Options: Br, BC, Cr, PT