

an educational pamphlet from

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Prostate Cancer MRI

Accurate Diagnosis and Treatment

A Prostate Cancer Diagnostic Clinic

Physimed Health Group



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pamphlets from
Prostate Cancer MRI
2016
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PSA to Prostate Imaging

for patients and curious doctors

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Physimed Health Group

Prostate Cancer Diagnostic Clinic

Individual Evaluation Objectives:

- Determining a man's risk of developing prostate cancer as a serious illness
- Diagnose prostate cancer in men at high risk
- Monitor men at high risk, on active surveillance with cancer or for residual or recurrent cancer after treatment
- MRI local staging of prostate cancer

Risk Assessment (includes some of these criteria)

Selects which patients require an MRI

Age, life expectancy, major illnesses, family-genetic history, race, chemical-medication exposures, previous (UTI, MRI, biopsy, pelvic surgery, radiation), predictor tables, urology exam, rectal exam, urinalysis-culture, PSA, PSA progression, biomarkers, testosterone, renal function, TRUS-PSA density

Prostate MRI

MRI selects men for biopsy and targets where to biopsy

- New remarkable ability to detail image of prostate anatomy, physiology and microvasculature.
- 94 % accurate in diagnosing prostate cancer
- Image based diagnosis, treatment and monitoring of prostate cancer which was inaccurate before MRI
- Time consuming for Radiologist and Urologist to learn, interpret and to clinically implement

(Learn more, pamphlets 6 & 7)

MRI Essentials

- Experienced Technician, Radiologist and Urologist
- MRI Request and consent forms
- Patient instructions
- Precise standardized acquisition of the MR Images and reporting
- Ultrasound/MRI images fusion for targeted biopsy
- Multidisciplinary case review



Ultrasound/MRI Fusion Targeted Biopsy

Transrectal Ultrasound (TRUS) external anatomy

Provides visualization for needle placement

MRI internal structures

Locates, targets the suspicious cancer nodule(s)

- Requires clear, clinically useful MRI reports and DVDs
- TRUS/MRI knowledgeable Urologist
- Pathologists to provide the proof of the presence of cancer

Our Prostate Cancer Diagnostic Team

Radiologists Provide and interpret the MRI to identify the undiagnosed, residual or recurrent cancers.

Drs. G. Artho, C. Reinhold, J. Taylor

Urologist Use the MRI to select which men to biopsy, where to biopsy for treatment decisions and monitoring.

Drs. M. Anidjar, S. Aronson, W. Kassouf

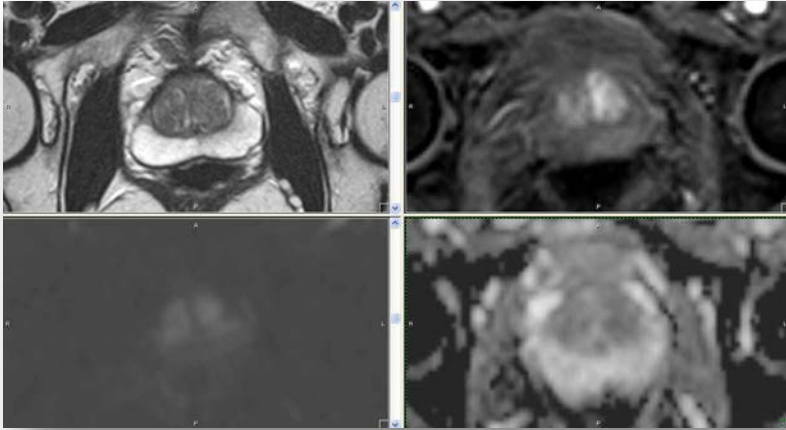
Pathologists Provide the tissue proof of the presence of cancer

Dr. L. Begin

T2w

Normal Prostate MRI

DCE



DWI

ADC

***With a thorough Prostate Cancer Risk Assessment
MRI may not be needed***

***With a MRI
Biopsy may not be needed***

***When biopsy is required
TRUS/MRI fusion targeted is very accurate***

(Learn more Pamphlet 3)

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Design by Annie Desjardins

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