



NATIONALRad
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PATIENT: JOHN SMITH
DOB: 5/5/1955
FILE #: 12345
PHYSICIAN: REFERRING
EXAM: MRI PROSTATE WITH AND WITHOUT CONTRAST
DATE: 1/1/2011

CLINICAL INFORMATION

Elevated PSA. Enlarged prostate. History of prostate cancer.

COMPARISON

None

CONTRAST

20 mL of MultiHance was administered per protocol.

TECHNIQUE

3T MRI with coronal T2; large FOV axial T2 3-D gradient echo; axial T1 and high-resolution T2, high b-value DWI and ADC sequences; dynamic axial T1 fat-sat post contrast. Multiparametric evaluation was performed on proprietary 3-D fusion software. Gas within rectum causes the susceptibility artifact on diffusion weighted sequences.

FINDINGS

Size: 4.5 (cc) x 6 (transverse) x 3.9 (ap) cm

Volume: 55 cc

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Transitional Zone: Foci of low signal intensity seen in the posterior aspect of the transitional zone at the level of the mid gland towards the apex measuring 0.9 cm on the left and 0.7 cm on the right (series 8 image 9) with associated early enhancement (series 7 image 19) and possible restricted diffusion (series 11 and 10 image 10). Findings may represent neoplastic foci. Biopsy can be performed as clinically indicated.

Peripheral Zone: Low signal intensity foci seen in the posterior aspect of the peripheral zone at the level of the mid gland toward the apex measuring 0.9 cm on the left and 0.9 cm on the right (series 8 image 9) with associated early enhancement (series 17 image 10) and possible restricted diffusion (areas 10 and 11 image 10). Findings are concerning for neoplastic foci. Biopsy can be performed as clinically indicated.

Seminal Vesicles: No low signal intensity focus, restricted diffusion, early enhancement is seen in the seminal vesicles.

Extracapsular Extension: Fat planes along the pseudocapsule of the prostate and neurovascular bundles are preserved.

Pelvis: No lymphadenopathy is seen. No aggressive bony lesions are identified. Moderate to severe cartilage thinning is present in the left hip joint with subchondral cystic changes in acetabulum.

IMPRESSION

1. Gas within rectum causes susceptibility artifact on diffusion weighted sequences.
2. Enlarged prostate.
3. Foci of low signal intensity and early enhancement and possible restricted diffusion in the posterior aspect of the transitional zone on the left and right at the level of the mid gland may represent neoplastic foci. Biopsy can be performed as clinically indicated.
4. Foci of low signal intensity and early enhancement and possible restricted diffusion in the posterior aspect of the peripheral zone on the left and right at the level of the mid gland may represent neoplastic foci. Biopsy can be performed as clinically indicated.
5. No seminal vesicle or extracapsular extension.
6. No lymphadenopathy or aggressive bony lesions.
7. Moderate to severe cartilage thinning in the left hip joint.

[NationalRad Radiologist]
Board Certified Radiologist

THIS REPORT WAS ELECTRONICALLY SIGNED

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