

MR Prostate with + without IV Contrast - Details

Study Result

Impression

4.2 cm left base to apex peripheral and transition zone lesion, unchanged in appearance since prior prostate MRI (however with TURP defect through the base aspect of the lesion), with bulging of the anterior fibromuscular stroma and extraprostatic extension, unchanged.

12 mm right apex posterolateral peripheral zone lesion, PR-4, unchanged.

No pelvic lymphadenopathy.

Overall PI-RADS suspicion category: Category 5 = Very high (clinically significant cancer is highly likely to be present)

Electronically Signed By: Andrea Kierans on December 01, 2022 10:24 AM

Narrative

EXAM:

MR PROSTATE WITH + WITHOUT IV CONTRAST

CLINICAL HISTORY:

History of prostate cancer status post focal laser ablation x2 in 2014 and 2016, repeat biopsy on 01/07/2022 with bilateral disease status post TURP 9/22

TECHNIQUE:

Multiparametric MR of the pelvis/prostate with and without intravenous contrast. Note that any three-dimensional post-processing (3D) would require a separate order and would be reported separately. If 3D processing is ordered, please refer to the separate report.

Contrast type: Gadavist

COMPARISON:

MRI 10/07/2021, PET CT 10/08/2021

FINDINGS:

Prostate volume: 30.1 cc

Prostate dimension (mm): 42.4 x 39.0 x 36.1

Target(s)

Target 1:LBPZa(6)

Overall PI-RADS category 5, unchanged since 10/07/2021, however, now with TURP defect within the mid superior aspect of the lesion (4, 12)

Location: Left base to apex transition to peripheral zone anterior to posterior and lateral (code(s): LBTZa, LBPZa, LBPZpl, LMTZa, LMPZa, LXTZa)

Size: 32.97 x 20.68 (mm) on slice 13 of series 4, Max axis length 3D: 42 mm, Volume: 8.400 cc

This is the index lesion.

Extends to slice(s) 20,19,18,17,16,15,14,13,12,11,10

T2W: Homogeneous Moderate Hypo intensity not-defined with not-defined margins, PI-RADS category 5

Invasive features: Gross EPE, unchanged

Invasive features: Ant. Fibromuscular Stroma

DWI/ADC:Focal Marked Hyper DWI intensity and Focal Marked Hypo ADC intensity, PI-RADS category 5

Average ADC: 1060.7 sq. microns/sec

DCE: Focal, earlier than adjacent tissue, PI-RADS category +

Target 2:RXPZpl

Overall PI-RADS category 4

Location: Right apex peripheral zone posterior and lateral (code(s): RXPZpl)

Size: 10.96 x 8.61 (mm) on slice 20 of series 4, Max axis length 3D: 12 mm, Volume: 0.250 cc

T2W: Homogeneous Moderate Hypo intensity not-defined with not-defined margins, PI-RADS category 4

Invasive features: Invasive features: none

DWI/ADC:Focal Marked Hyper DWI intensity and Focal Marked Hypo ADC intensity, PI-RADS category 4

Average ADC: 1183.2 sq. microns/sec

DCE: Not early, PI-RADS category -

Transition/central zone: Moderate prostatic hyperplasia with moderate heterogeneity (PI-RADS 2), with new TURP defect.

Peripheral zone: As above

Post-biopsy hemorrhage: None

Seminal vesicles: Unremarkable

Neurovascular bundles: Uninvolved.

Urethra (including bladder inlet and urogenital diaphragm): Unremarkable

Lymph nodes: No lymphadenopathy.

Urinary bladder: Underdistention is associated with mild, uniform bladder wall thickening.

Bowel and peritoneum: No ascites

Osseous structures: No aggressive lesions.

Anterior pelvic wall: Fat containing umbilical hernia, partially imaged. Small bilateral fat containing inguinal hernias.

Images

Scan on 11/30/2022 6:24 PM

Component Results

There is no component information for this result.

General Information

Ordered by Ariel E Marciscano

Collected on 11/30/2022 5:45 PM

Resulted on 12/01/2022 10:26 AM

Result Status: Final result

This test result has been released by an automatic process.

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SURGICAL PATHOLOGY - Details

Images

Scan on 1/7/2022

Component Results

| Component | Your Value | Standard Range | Flag |
|-------------------------|---|----------------|------|
| Surgical Pathology (AP) | Your Value New York-Presbyterian Hospital/Weill Cornell Medical Center Department of Pathology Surgical Pathology Laboratory Starr 1028 Inquiry:(212)746-2700 525 East 68th Street, NY,NY 10021 Fax:(212)746-8624 | | |

[REDACTED]

Specimen Date: 1/7/2022
In Lab Date: 1/7/2022 14:45
Report Date: 1/12/2022

[REDACTED]

Telephone: 718-353-3710

[REDACTED]

Location: DHK IR IMAGING
Age/Sex: 70 / M

[REDACTED]

CLINICAL INFORMATION:
Prostate cancer (C61).

| Component | Your Value | Standard Range | Flag |
|-----------|------------|----------------|------|
|-----------|------------|----------------|------|

DIAGNOSIS:**A. Prostate, left anterior apex, biopsy:**

Prostatic adenocarcinoma, Grade Group 2 (Gleason score 3+4=7), involving 30% (3.5 mm) of 1/1 core.

Gleason pattern 4 constitutes 5-10% of the total tumor volume.

B. Prostate, left anterior base, biopsy:

Prostatic adenocarcinoma, Grade Group 2 (Gleason score 3+4=7), involving 100% (10 mm) of 1/1 core.

Gleason pattern 4 constitutes 5% of the total tumor volume.

I. Prostate, right posterior apex, biopsy:

Prostatic adenocarcinoma, Grade Group 1 (Gleason score 3+3=6), involving 25% (2.5 mm) of 1/1 core.

K. Prostate, left lateral apex, biopsy:

Prostatic adenocarcinoma, Grade Group 2 (Gleason score 3+4=7), involving 40% (5 mm) of 1/1 fragmented core.

Gleason pattern 4 constitutes 5% of the total tumor volume.

L. Prostate, right lateral apex, biopsy:

Prostatic adenocarcinoma, Grade Group 1 (Gleason score 3+3=6), involving 30% (3 mm) of 1/1 core.

O. Prostate, MR Target # 1 core x 5, biopsy:

Prostatic adenocarcinoma, Grade Group 2 (Gleason score 3+4=7), involving 80% (6 mm) of 1/5 cores.

Gleason pattern 4 constitutes 5% of the total tumor volume.

P. Prostate, MR Target # 2 cores x 4, biopsy:

Prostatic adenocarcinoma, Grade Group 1 (Gleason score 3+3=6), involving 30%, 10% (4.5 mm, 2 mm) of 2/4 cores.

C. Prostate, right anterior apex, biopsy: Benign fibromuscular tissue.

D. Prostate, right anterior base, biopsy: Benign fibromuscular tissue.

E. Prostate, midline apex, biopsy: Benign prostatic tissue.

F. Prostate, midline base, biopsy: Benign prostatic tissue.

G. Prostate, left posterior apex, biopsy: Benign prostatic tissue.

H. Prostate, left posterior base, biopsy: Benign prostatic tissue.

| Component | Your Value | Standard Range | Flag |
|--|--------------------------|----------------|------|
| J. Prostate, right posterior base, biopsy: | Benign prostatic tissue. | | |
| M. Prostate, right lateral base, biopsy: | Benign prostatic tissue. | | |
| N. Prostate, left lateral base, biopsy: | Benign prostatic tissue. | | |
| Joshua Mo, M.D./har901 1/7/2022 | | | |
| GROSS DESCRIPTION: | | | |
| A. Received in formalin, the specimen is labeled "prostate core left anterior apex x1" and consists of one core of tan-white soft tissue measuring 0.5 x 0.1 x 0.1 cm. 100% submitted. Summary of sections: | A1. | | |
| B. Received in formalin, the specimen is labeled "prostate core left anterior base x1" and consists of one core of tan-white soft tissue measuring 1.0 x 0.1 x 0.1 cm. 100% submitted. Summary of sections: | B1. | | |
| C. Received in formalin, the specimen is labeled "prostate core right anterior apex x1" and consists of one core of tan-white soft tissue measuring 1.0 x 0.1 x 0.1 cm. 100% submitted. Summary of sections: | C1. | | |
| D. Received in formalin, the specimen is labeled "prostate core right anterior base x1" and consists of one core of tan-white soft tissue measuring 0.5 x 0.1 x 0.1 cm. 100% submitted. Summary of sections: | D1. | | |
| E. Received in formalin, the specimen is labeled "prostate core midline apex x1" and consists of one core of tan-white soft tissue measuring 0.6 x 0.1 x 0.1 cm. 100% submitted. Summary of sections: | E1. | | |
| F. Received in formalin, the specimen is labeled "prostate core midline base x1" and consists of one core of tan-white soft tissue measuring 0.8 x 0.1 x 0.1 cm. 100% submitted. Summary of sections: | F1. | | |
| G. Received in formalin, the specimen is labeled "prostate core left posterior apex x1" and consists of one core of tan-white soft tissue measuring 0.2 x 0.1 x 0.1 cm. 100% submitted. Summary of sections: | G1. | | |
| H. Received in formalin, the specimen is labeled "prostate core left posterior base x1" and consists of one core of tan-white soft tissue | | | |

SURGICAL PATHOLOGY

Status: Final result Connect: Auto-Release Prevented

Result (PDF) Reports — Order Level on 01/30/2023:

Surgical Pathology (AP)

New York-Presbyterian Hospital/Weill Cornell Medical Center
Department of Pathology: Surgical Pathology Laboratory
Starr 1028 Inquiry: (212) 746-2700
525 East 68th Street, NY, NY 10021 Fax: (212) 746-8624

Surgical Pathology Report

Specimen Date: 1/30/2023
In Lab Date: 1/30/2023 14:32
Report Date: 2/8/2023

Patient:

525 East 68th Street
New York, NY 10065

Location: DHK IR IMAGING
Age/Sex: 71 / M

CLINICAL INFORMATION:

Prostate cancer (C61). 71 yo gentleman with prostate cancer s/p focal laser ablation x2 10/2014 and 08/2016 with persistent PSA rise.

DIAGNOSIS:

L. Prostate, right lateral apex, biopsy:
Prostatic adenocarcinoma, Grade Group 1 (Gleason score 3+3=6), involving 10% (2 mm) of 1/2 cores.

N. Prostate, left lateral base, biopsy:
Prostatic adenocarcinoma, Grade Group 1 (Gleason score 3+3=6), involving 80% (5 mm) of 1/1 fragmented core.

P. Prostate, ROI #2, biopsy:

Prostatic adenocarcinoma, Grade Group 1 (Gleason score 3+3=6), involving 25% (6 mm) of the total fragmented specimen (2/6 core fragments).

Q. Prostate, ROI #1, biopsy:

Prostatic adenocarcinoma, Grade Group 1 (Gleason score 3+3=6), involving 20% (2 mm) of the total fragmented specimen (1/5 core fragments).

- A. Prostate, left anterior apex, biopsy: Benign fibromuscular tissue.
- B. Prostate, left anterior base, biopsy: Benign fibromuscular tissue.
- C. Prostate, right anterior apex, biopsy: Benign prostatic tissue.
- D. Prostate, right anterior base, biopsy: Benign prostatic tissue.
- E. Prostate, midline apex, biopsy: Benign prostatic tissue.
- F. Prostate, midline base, biopsy: Benign prostatic tissue.
- G. Prostate, left posterior apex, biopsy: Benign fibromuscular tissue.
- H. Prostate, left posterior base, biopsy: Benign fibromuscular tissue.
- I. Prostate, right posterior apex, biopsy: Benign prostatic tissue.
- J. Prostate, right posterior base, biopsy: Benign prostatic tissue.
- K. Prostate, left lateral apex, biopsy: Benign fibromuscular tissue.
- M. Prostate, right lateral base, biopsy: Benign prostatic tissue.
- O. Seminal vesicle, left, biopsy: Benign prostatic tissue.

Comment: Changes of prior procedure (laser ablation) are noted, predominantly on the left side (Parts A, B, G, H, K, L, M, O).

/rnk900 1/30/2023

GROSS DESCRIPTION:

- A. Received in formalin, the specimen is labeled "#1 prostate core left anterior apex x1" and consists of one core of tan-white soft tissue measuring 0.8 x 0.1 x 0.1 cm. 100% submitted. Summary of sections: A1.
- B. Received in formalin, the specimen is labeled "#2 prostate core left anterior base x1" and consists of one core of tan-white soft tissue measuring 1.4 x 0.1 x 0.1 cm. 100% submitted. Summary of sections: B1.
- C. Received in formalin, the specimen is labeled "#3 prostate core right anterior apex x1" and consists of one core of tan-white soft tissue measuring 1.2 x 0.1 x 0.1 cm. 100% submitted. Summary of sections: C1.
- D. Received in formalin, the specimen is labeled "#4 prostate core right anterior base x1" and consists of 2 cores of tan-white soft tissue measuring 0.7-1.1 cm, each by 0.1 x 0.1 cm. 100% submitted. Summary of sections: D1.
- E. Received in formalin, the specimen is labeled "#5 prostate core midline apex x1" and consists of 2 cores of tan-white soft tissue measuring 0.2-0.4 cm, each by 0.1 x 0.1 cm. 100% submitted. Summary of sections: E1.
- F. Received in formalin, the specimen is labeled "#6 prostate core midline base x1" and consists of 2 cores of tan-white soft tissue measuring 0.2-0.4 cm, each by 0.1 x 0.1 cm. 100% submitted. Summary of sections: F1.
- G. Received in formalin, the specimen is labeled "#7 prostate core left posterior apex x1" and consists of one core of tan-white soft tissue measuring 1.6 x 0.1 x 0.1 cm. 100% submitted. Summary of sections: G1.