

NAME: MR. MADHUKAR H. JOSHI
AGE/SEX: 69 YEARS / M
STUDY NAME: PSMA PET WB-CECT
REF BY: DR. T. B. YUVARAJA
DATE: 19/OCTOBER/2021



JEEYO

PET CT & NUCLEAR IMAGING CENTRE

a unit of Arjan Imaging LLP

¹⁸F-PSMA Whole Body PET-CT Scan

CLINICAL HISTORY: Presented with prostatomegaly, serum PSA level – 61.4 ng/mL (dated 11/10/2021), for evaluation.

Procedure:

Radiotracer & dose : 9.5 mCi ¹⁸F –Prostate Specific Membrane Antigen (PSMA).

Examination : Skull vertex to feet.

Technique : Imaging was performed after 90 mins of intravenous administration of radiotracer injection on an integrated 16-slice PET/CT scanner (GE Discovery IQ).

Multiphase Contrast CT images were acquired and co-registered with PET images for interpretation with reconstruction performed in transaxial, coronal & sagittal views of 1.5 mm slice thickness.

Standard uptake values normalized to body surface area obtained over lesions (SUV max).

FINDINGS:

Head and Neck:

- Partial mucosal thickening noted in bilateral ethmoidal and bilateral maxillary sinus, without radiotracer uptake sinusitis.
- Normal radiotracer uptake is seen in bilateral lacrimal and salivary glands.
- No area of abnormal radiotracer uptake seen in the head and neck region.
- Skull base, pharynx, neck region and thyroid do not show any abnormality on CT. No abnormal Lymphadenopathy noted.

Chest:

- No area of abnormal radiotracer uptake noted in bilateral lungs, mediastinum and thoracic wall.
- Lungs, large airways, pleura, heart, great vessels and other mediastinal structures appear normal on CT. No abnormal Lymphadenopathy noted.

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Abdomen and Pelvis:

- Prostatomegaly noted measuring 4.7 x 5.5 cm, showing increased radiotracer uptake noted in left peripheral zone (SUVmax 5.4). Enhancing soft tissue density nodular lesion measuring 4.1 x 1.5 cm involving left seminal vesicle, showing increased radiotracer uptake (SUVmax 15.9).
- Bilateral inguinal hernia noted.
- Normal radiotracer distribution is noted in the spleen, liver, small bowel, kidneys and urinary bladder.

Musculoskeletal:

- Few lytic sclerotic lesions involving L1 vertebra, left iliac bone and right femoral head, showing increased radiotracer uptake (SUVmax 22.7).

IMPRESSION: Presented with prostatomegaly, serum PSA level - 61.4 ng/mL (dated 11/10/2021), for evaluation.

- PSMA EXPRESSING PRIMARY MALIGNANT PATHOLOGY INVOLVING LEFT PERIPHERAL ZONE OF PROSTATE. SOFT TISSUE DENSITY NODULAR LESION INVOLVING LEFT SEMINAL VESICLE, SHOWING INCREASED PSMA EXPRESSION.
- METABOLICALLY ACTIVE DISTANT METASTATIC DISEASE INVOLVING L1 VERTEBRA, LEFT ILIAC BONE AND RIGHT FEMUR.

Krishan Kant

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Ex.Oct 19 2024

1 0100

V=1.45



HD MIP No cut

DFOV 135.4cm

1 0100

No VOI

3.3mm/3.3sp

m=0.00 M=20.54g/ml

1 1371



