

Apollomedics
SUPER SPECIALITY HOSPITALS

DEPARTMENT OF NUCLEAR MEDICINE AND PET-CT

NAME	ARIJUN PRASAD GIRI	AGE/SEX	64/M	DATE	19.04.2022
UHID	MILL.0000249451	REF BY	DR. HARSHVARDHAN ATREYA		

¹⁸F-PSMA WHOLE BODY PET-CT STUDY

Clinical details: K/C/O carcinoma prostate, Gleason score (5+ 4 = 9). Last PSMA PET - CT dated (26.11.2021) was suggestive of viable primary and metastatic disease. Post PET- CT received 6 cycles of chemotherapy.

Indication: Restaging

PROCEDURE:

Whole body PET-CT (Vertex to mid-thigh) images were acquired 45 minutes after IV administration of ¹⁸F-PSMA (13.4mCi) on a PET-CT scanner. Images were reconstructed to obtain transaxial, coronal and sagittal views. IV contrast was given.

PET-CT scan findings:

Physiological distribution of the radiotracer:

Normal physiological radiotracer activity of ¹⁸F-PSMA is seen in the lacrimal and salivary glands, liver, spleen, bowel, kidneys.

Head and Neck:

Visualized portion of the brain appears normal. (All brain lesions may not be apparent on PET-CT and MRI may be performed, if clinically indicated). Soft tissue of the neck appears normal with no abnormal PSMA activity. No significant PSMA avid lymphadenopathy in the cervical region.

Thorax:

- PSMA avid subcentimetric sized mediastinal lymph nodes are noted (SUVmax- 3.09) - Likely Benign.

Lungs, large airways, pleura, heart, great vessels and esophagus appear normal on CT.

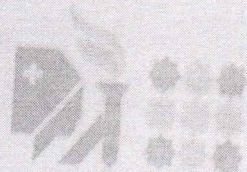
Abdomen & Pelvis:

- PSMA avid heterogeneously contrast enhancing lesion (Measuring approximately 4.6 AP x 4.4 TR x 4.0 CC cms, SUVmax- 9.57) is noted involving entire prostate gland from apex to base, lesion is infiltrating left seminal vesical, anteriorly lesion is abutting with neck of urinary bladder, posteriorly lesion is abutting with anal canal.
- PSMA avid subcentimetric sized right common iliac and left obturator lymph nodes are noted (Highest SUVmax- 3.75).
- PSMA avid subcentimetric sized nodules are noted in perirectal fat (Highest SUVmax- 3.94).

Physiological PSMA distribution is noted in the liver, spleen, gastrointestinal tract and kidneys. Stomach, adrenals, liver, gall bladder, biliary system, pancreas, spleen, kidneys, retroperitoneum, bowel and urinary bladder shows no significant abnormality on CT. No ascites is noted.

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Musculoskeletal:

PSMA avid sclerotic lesions are noted in almost entire appendicular and axial skeleton (SUVmax- 10.46),

Rest of the visualized bones are essentially normal.

Impression: ⁶⁸F-PSMA PET-CT scan findings are suggestive of -

- PSMA expressing lesion involving entire prostate gland as described above is suggestive of residual primary malignancy.
- PSMA expressing metastatic perirectal nodules, right common iliac and left obturator lymphadenopathy as described above.
- PSMA expressing extensive sclerotic bony metastasis as described above.

In comparison to previous Gallium - 68 PSMA PET-CT scan dated (26.11.2021), there is (SUV values cannot be compared as both tracers are different):

- Decreased size (~ 35 %) of primary lesion in prostate gland.
- Decreased size (~ 50 %) of right common iliac and left obturator lymphadenopathy.
- Decreased size and number of perirectal nodules.
- Complete resolution of right external iliac lymph node.
- Increased sclerosis of all the bony lesions.

Overall scan findings are suggestive of good but partial response to therapy.

NK
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Disclaimer: Not all tumors may show FDG uptake. In the absence of metabolically active disease reported in the scan, if there are other evidences to suggest presence of disease, further complimentary investigations might be undertaken. Please interpret accordingly.







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Monday to Friday 5 pm to 8 pm

ATTACHMENT
• Nahavati-Max Super Speciality Hospital, Vile Parle, West, Mumbai
• Zen Multi Speciality Hospital, Chembur, Mumbai

DR ADWAITA GORE D.N.B. (MEDICAL ONCOLOGY) - 2002D41926

Medical Oncologist | Hemato-Oncologist | Bone Marrow Transplant Physician
For Appointment: 9619810041 | drgore.onco@gmail.com

Consultation Record

Patient Details
Name: Mr. Arjun Prasad Chitambar
Reference: Dr. Choudhary Chitambar
Mobile: 9820844332
Informant: Patient has narrated the history

Age: 63 Years
Sex: Male
Address: Jalpur
Weight: 71 kgs Height: 164 cms BSA: 1.79 sqm BMI: 27.1 kg/m²

Date: 28-Jun-2023

Current Medications
6 years ago: Diabetes Metformin 1 mg OD
3 weeks ago: Hypertension Amlisin 5 mg OD
Dyslipidemia Atorvast 10 mg OD

Other Significant History
Corneal Opacity Right eye since childhood - post chicken pox

Presenting Complaints
Nov 2021: Adenocarcinoma Prostate - mCSPC High volume disease. Completed 6 x Docetaxel completed 07/04/2022, then ABR, then rechallenged Docetaxel, now on ENZA for evaluation

Investigation Details
26/09/2021: 16GB guided biopsy done. Reports: Adenocarcinoma Poorly differentiated; Gleason score 5+4=9
11/12/2021: Underwent Bilateral Orchiectomy by Dr Santosh Paikar
10 Jan 22: 6 cycles Docetaxel LD 07/04/2022 followed by Abiraterone 1000 mg OD + Omnicortil 5 mg BD daily since May 2022
12/01/22: 7 weekly Docetaxel x 4 doses LD 23/02/2023 - developed LRTI hence stopped.
02 June 23: Enzalutamide 160 mg OD started May 2023.

General Examination
ECOGPS: 1 Pallor: Absent Icterus: Absent Edema feet: Absent Lymph nodes: Not palpable

Systemic Examination
Respiratory: Clear, No foreign sounds Cardiovascular: S1, S2 Normal, No murmur Abdomen: Soft, no tenderness, BS
CNS: Physiological, NAD Other:

Investigations
07-Jun-2023 CBC: HB: 12.4 g/dl, TBC: 7.250 /cmm, PLT: 197,600 /cmm, DLE: N63 L27, Creat: 0.93 mg/dl
LFT: ALT: 22 U/L, Bil: 0.8 mg/dl, PBD: ALB: 4.15 g/dl, SAP: LDH
02-Jun-2023 TPOCHC: PSA: 9.24
19-Apr-2022 PET CT scan: Decrease in prostate mass, right ischioanal iliac and left obturator LH per rectal nodules, right ext iliac nodes, increased sclerosis of all bone lesions, NO partial response to therapy.
01-Dec-2021 Biopsy: Adenocarcinoma Poorly differentiated, Gleason score 5+4=9
06-Nov-2023 PSMA PET: Patchy areas of PSMA uptake in peripheral zones of prostate (35 x 14 x 42 mm) from base to apex with extension to bilateral seminal vesicles - residual disease (SUJ 25A), PSMA avid extensive skeletal metastasis (SUJ 29, 2A). Previous scan not available for comparison
10-Apr-2023 PSMA PET: Partial response noted

Diagnosis
Metastatic Adenocarcinoma prostate: Stage IV disease - mCSPC / High volume. Post Bilateral Orchiectomy done 11/12/2021
Post 6 cycles Docetaxel LD 07/04/2022, On Abiraterone + Prednisolone. Had increase in PSA in Nov 2022 and in Jan 2023 also. Deceased & done Docetaxel 2 weekly - developed LRTI interrupting chemotherapy. Since May 2023 on ENZA

Discussion with patient and/or relative:
By intent: Palliative. Symptom relief, Disease control, low intensive therapy, Not cure.
Expanded: Outcome of disease as per evaluation today, Benefits & side effects of treatment, financial implications for treatment & supportive care
Work up: CBC, Creatinine, LFT, PSA once in 2 months
Treatment: Continue ENZA 160 mg OD with Zoledronat once in 4 weeks
Follow up: After 2 months with reports

INSTRUCTIONS TO PATIENTS:
For Appointments: +91-9619810041 (call between 9 am to 6 pm)
Please call at least 4 - 5 days prior to your next appointment date.

Dr. Adwaita A. Gore,
DNB Medical Oncology, DNB General Medicine
Consultant Medical Oncologist, Hemato-Oncologist & Bone Marrow Transplant Physician
Registration No: 2002/04/1926



PATIENT NAME : ARJUN P GIRI CODE/NAME & ADDRESS : C000133149 PADAM PATHOLOGY RAJA BAHAUR PARK, PRATAPGARH, PRATAPGARH PRATAPGARH 230001 9918101000		REF. DOCTOR : DR. MEDANTA HOSPITAL ACCESSION NO : 0355WK003711 PATIENT ID : ARJUM161152355 CLIENT PATIENT ID : ABHA NO :		AGE/SEX : 66 Years Male DRAWN : RECEIVED : 16/11/2023 18:50:03 REPORTED : 17/11/2023 14:06:20
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Test Report Status	Final	Results	Biological Reference Interval	Units
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SPECIALISED CHEMISTRY - TUMOR MARKER

PROSTATE SPECIFIC ANTIGEN, SERUM

PROSTATE SPECIFIC ANTIGEN	61.400 High	< or = 4.10	ng/mL
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METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY

Interpretation(s)
 PROSTATE SPECIFIC ANTIGEN, SERUM-- PSA is detected in the male patients with normal, benign hyperplastic and malignant prostate tissue and in patients with prostatitis.
 - PSA is not detected (or detected at very low levels) in the patients without prostate tissue (because of radical prostatectomy or cystoprostatectomy) and also in the female patients.
 - It is a suitable marker for monitoring of patients with Prostate Cancer and it is better to be used in conjunction with other diagnostic procedures.
 - Serial PSA levels can help determine the success of prostatectomy and the need for further treatment, such as radiation, endocrine or chemotherapy and useful in detecting residual disease and early recurrence of tumor.
 - Elevated levels of PSA can be also observed in the patients with non-malignant diseases like Prostatitis and Benign Prostatic Hyperplasia.
 - Specimens for total PSA assay should be obtained before biopsy, prostatectomy or prostatic massage, since manipulation of the prostate gland may lead to elevated PSA (false positive) levels persisting up to 3 weeks.
 - As per American urological guidelines, PSA screening is recommended for early detection of Prostate cancer above the age of 40 years. Following Age specific reference range can be used as a guide line.
 - Measurement of total PSA alone may not clearly distinguish between benign prostatic hyperplasia (BPH) from cancer, this is especially true for the total PSA values between 4-10 ng/mL.
 - Total PSA values determined on patient samples by different testing procedures cannot be directly compared with one another and could be the cause of erroneous medical interpretations. Recommended follow up on same platform as patient result can vary due to differences in assay method and reagent specificity.

- References-
1. Burtis CA, Ashwood ER, Bruns DE, Tietz Textbook of clinical chemistry and Molecular Diagnostics, 4th edition.
 2. Williamson MA, Snyder LM. Wallach's interpretation of diagnostic tests, 9th edition.

****End Of Report****
 Please visit www.agilusdiagnostics.com for related Test Information for this accession

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Dr. Anurag Bansal
 LAB DIRECTOR



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