

Nuclear Medicine - Workup Report

Patient's Name | 128957 -
Date of Birth |
Gender - Age | Male, |

Scan Date: 11/07/2017 10:18

Report Date: 11/07/2017 16:4

On Ga-68 PSMA WHOLE BODY PET/CT,

Indication: PSA level was 7.0 mg/ml in June (the previous PSA level was 5.5 mg/ml). For the patient with diagnosis of prostate cancer (small cell adenocarcinoma, Gleason: 3+4 7), 68Ga-PSMA PET/BT is ordered to investigate metastasis (initial staging).

On the analysis of whole body (including brain and lower extremities) images obtained 1 hour after intravenous administration of 68Ga-PSMA (3.4 mCi) and transaxial, coronal and sagittal segments;

Findings:

Increased activity uptakes are seen in prostate gland, particularly at posterior sides. Moreover, a subcentimeter lymph node, accompanied by minimally increased activity uptake, is visualized at the location of left internal iliac area.

"Small cell cancer" was reported for the prostate lesion; it was considered that FDG uptake might be higher in these lesions, and thus FDG-PET/BT was scanned in same day for correlative purposes. Intensive FDG uptakes are noted at posterior sides of prostate gland on FDG-PET/CT images (SUVmax 12.8 - at higher levels according to PSMA accumulation). In addition, a subcentimeter lymph node with increased FDG uptake is seen at the location of left internal iliac area (SUVmax 4.3 - at higher levels according to PSMA accumulation).

On the other hand, no pathological activity uptake focus is observed in other intrapelvic - intraabdominal lymphatic stations on neither 68Ga-PSMA PET/CT images, or on FDG-PET/CT images.

No increased activity uptake focus is observed in the liver, pulmonary parenchymas, mediastinal lymphatic stations or in supraclavicular areas.

No pathological activity uptake focus is noted in skeletal system.

No pathological activity uptake focus is visualized in other parts of whole body.

RESULT

A malignant tumoral lesion is observed, which shows increased PSMA activity in prostate gland (with higher FDG hypermetabolism), particularly at posterior sides. Moreover, a subcentimeter lymph node, with minimal PSMA activity (with higher FDG hypermetabolism), suggestive of metastasis, is visualized at the location of left internal iliac area.

Note:

1. There is no other finding neither on 68Ga-PSMA PET/CT images, or on FDG-PET/CT images, which would be, otherwise, suggestive of metastasis of primary tumor.
2. The images comparative with FDG PET/CT scanned in same day are prepared and presented to your side.
- 3.

This report is electronically signed.