

DIAGNOSTIC IMAGING REPORT

Name: XXX
Exam Date: XXX
Referring Phys: XXX

Accession: XXX
DOB: XXX
Sex: XXX

BODY PET CT FUSION SCAN

INDICATION: Right lung mass

TECHNIQUE: Body PET CT fusion imaging was performed using the GE Discovery LS Circular Geometry PET Scanner and Multidetector CT Scanner. The patient was injected intravenously in the left antecubital vein with 14.5 mCi of 18 fluorodeoxyglucose. Delayed body PET and CT image acquisition was performed. Multiplanar reformatted PET and CT images were recorded in transaxial, coronal and sagittal planes. A body 3D reconstructed PET image was also rendered. The CT stud was done for attenuation correction and for anatomic localization. The blood glucose level was 98 mg/dL. Weight is 172 lb.

COMPARISON: Previous study of 2/6/09. Previous study had shown a low level of localization in the right parabranchial region. There was a large amount of brown fat also localized in the supraclavicular area.

FINDINGS:

The study was done in the arms up position.

Head and Neck: No abnormal PET localization is identified.

Thorax: There is increased localization in the left supraclavicular area that appears to be in two small lymph nodes with maximum SUV of 3.89. There is a large mass in the right lung that measures 5.79 cm in the region of the right upper lobe in the right hilar area with multiple smaller nodular areas in the right upper lobe. The main mass has an SUV that measures 13. There are subcarinal lymph nodes that are enlarged with also an SUV of 7.0. Coronary artery calcifications and calcification in the aorta are again noted. There is also localization in T12 vertebral body with an SUV of 10.7.

Abdomen and Pelvis: Below the diaphragm, there is a positive localization in the right lobe of the liver inferiorly with an SUV of 13.0. Large cyst of both kidneys is again shown. There are also now some smaller cysts in the kidneys that are identified. Abdominal area is otherwise normal.

The pelvic area shows that there is a localization in the superior portion of the left acetabulum with an SUV of 6.5 and there is localization in the left pubic bone with an SUV of 7.0. Pelvic structures are otherwise normal. There is some pneumatization of the L5-S1 disc space. Atherosclerosis in the aorta and iliac vessels is again demonstrated.

IMPRESSION:

There is now a large mass measuring 5.79 cm in the right lung with multiple nodules in the right lung, enlarged positive localization in the subcarinal lymph nodes, and minimal localization in the left supraclavicular area. There is also localization in the body of T12.

Electronically Signed By: XXXX

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