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PET CT REPORT

Name	Mrs.Umamangayarthilagam	ID No	A688191
Age / Sex	51 Years / Female	PET. No	2527/2021
Referral	Dr.P.Guhan	Date	08.12.2021

PET-CT SKULL BASE TO MID THIGH

INDICATION: Malignant thymoma - post CT (6 cycles), for disease status evaluation

COMPARISON: Previous PET CT dated 29.07.2021

TECHNIQUE:

PET-CT scan from skull base to mid thigh was performed in 3-D mode 60 min after t intravenous administration of 3.44 mCi of 18F-FDG. FBS: 95 mg/dl. Intravenous contra was given. Reconstruction of the acquired data was performed so as to obtain fused PE CT images in transaxial, coronal and sagittal views.

FINDINGS:

Head and Neck:

- Physiological tracer uptake is noted in the brain, head and neck.
- No definite mass lesion or focal abnormal FDG uptake seen in the nasopharyn oropharynx, hypopharynx and larynx.
- **Thyroid gland is enlarged and shows diffuse FDG uptake (SUV max – 9.3) suggestive of thyroiditis.**
- Multiple heterogeneously enhancing nodules are seen in both lobes of thyroid glan largest measuring 4.9x4.1cms in left lobe. Retrosternal extension noted.
- **Interval resolution of FDG avid left infraclavicular lymphnode in the preser scan. (Previous size 1.7x0.8cm, SUV max – 8.5).**

Chest:

- Physiological tracer uptake is noted in the myocardium.
- **Ill-defined heterogeneously enhancing mass lesion is seen in the anterio mediastinum with few focal FDG avid areas (SUV max – 4.7) (Previous SUV max 24.8).**

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Interval reduction in size, extent and FDG uptake in the present scan. It is partly encasing the aortic arch. The lesion is infiltrating the pericardium. Trachea is mildly displaced to right.

- **FDG avid subcentimeter sized right paratracheal lymphnode is seen (SUV max – 5.0). (Previous SUV max – 10.7). Interval reduction in size and FDG uptake in the present scan. Interval resolution of rest of the mediastinal lymphnodes in the present scan.**
- **Few non FDG avid subcentimeter sized nodules are seen in both lungs. Interval reduction in size, number and resolution of FDG uptake in the present scan.(Previous size 1.5x1.2cms, SUV max – 13.4).**
- **Interval resolution of FDG avid right pleural deposits in the present scan. (Previous size 2.6x0.5cm, SUV max – 14.1).**

Abdomen and Pelvis:

- Physiological tracer uptake is noted in the bowel, kidneys and urinary bladder.
- Focal fatty infiltration seen in left lobe of liver. Non FDG avid tiny cyst seen in right lobe.
- Gallbladder, spleen, pancreas, adrenals and kidneys are unremarkable. No focal mass lesion / abnormal FDG uptake.
- Stomach, small and large intestines are unremarkable.
- Non FDG avid fibroids are seen in the uterus, largest measuring 4.1x3.8cms. Few of them are calcified.
- No significant abdominal / pelvic lymphadenopathy.
- Non FDG avid subcutaneous cyst measuring 1.6x1.4cms seen in left lateral abdominal wall.

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Skeleton:

- **Diffuse marrow FDG uptake noted in axial and appendicular skeleton – post chemotherapy.**
- Internal fixation device seen in right femur.
- Degenerative changes are noted in the spine.

IMPRESSION:

H/o Malignant thymoma – post CT, for evaluation

- **Ill-defined mass lesion with hypermetabolic foci in anterior mediastinum as described above – residual active disease.**
- **Hypermetabolic metastatic right paratracheal lymphnode.**
- **Non FDG avid bilateral lung nodules.**
- **No evidence of metabolically active disease elsewhere in the present scan.**

Compared to the previous PET CT dated 29.07.2021 the present scan shows

- **Interval reduction in size, extent and metabolic activity of anterior mediastinal mass lesion.**
- **Interval reduction in size and metabolic activity of right paratracheal lymphnode.**
- **Interval resolution of hypermetabolic metastatic left infraclavicular and few mediastinal lymphnodes.**
- **Interval resolution of hypermetabolic right pleural deposits.**

favouring partial metabolic response

Dr. A. Arunkumar
Consultant Radiologist

Dr. B. Nageswararaj
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