

DEPARTMENT OF NUCLEAR MEDICINE

NAME	Mrs. B CHANDRA LEKHA	AGE	28/F
REF BY	Dr. Mohana Vamsy. CH	BILL.NO	B17485
DATE	05.04.2023	UMR NO	B2477

Whole Body Digital PET-CT Scan

Clinical History:

- Case of bilateral breast Phyllodes. Post OP and CT.

PET-CT:

Whole body 160 slice CT with oral and without I.V contrast and ultra sensitive digital PET images were obtained from base of the skull to mid thigh using a dedicated PET-CT scanner approximately one hour after I.V injection of ~5 millicurie of FDG with reported blood sugar level at the time of injection was 89 mg/dl.

Axial, Sagittal and coronal PET reconstructions were interpreted using AI powered algorithms to obtain good quality reconstructed images. Semi quantitative assessment of FDG uptake was done by calculating Standardized uptake value (SUV Max) based on body weight and expressed as gm/ml.

PET-CT Findings:

NECK

- Brown fat uptake noted.
- Nasopharynx, oropharynx and hypopharynx are normal.
- Parotid and submandibular glands are normal.
- Thyroid gland is normal.
- No significant cervical lymphadenopathy.



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THORAX

- Brown fat uptake noted.
- Status post WLE both breasts - Post OP changes noted.
- No abnormal metabolic focus in both breasts and axillae.
- Non avid small soft tissue density lesions in lower inner and upper outer quadrants of right breast, largest measuring 8mm.
- Few non avid soft tissue density lesions in upper outer, central and inner lower quadrants of left breast, largest measuring 13x10mm.
- Non avid small volume bilateral axillary lymphnodes.
- Trachea, main bronchi and oesophagus are normal.
- Both lung parenchymas are normal. No pleural pathology noted.

ABDOMEN

- Liver parenchyma appears normal and normal attenuation.
- No evidence of intrahepatic biliary dilatation is seen.
- Pancreas, spleen and adrenals are normal.
- Both kidneys and urinary bladder are normal.
- The peritoneal fat planes are normal.
- No free fluid. No significant lymphadenopathy.

MUSCULO SKELETAL

- No significant abnormality.



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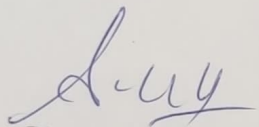
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IMPRESSION:

- *PET – CT is negative for metabolically active disease.*
- *Non avid small soft tissue density lesions in lower inner and upper outer quadrants of right breast, largest measuring 8mm.*
- *Few non avid soft tissue density lesions in upper outer, central and inner lower quadrants of left breast, largest measuring 13x10mm.*


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Consultant Nuclear Medicine

FDG PET is not specific for malignancy as infective lesions like Koch's may also show increase activity. PET-CT is not very sensitive for Brain metastases and MRI is indicated whenever suspicion is high and clinically warrants.

FDG PET scan does not exclude the presence of any microscopic disease.

Whole body PET-CT protocol includes base of the skull to mid thigh only.

PET-CT imaging series DVD enclosed.

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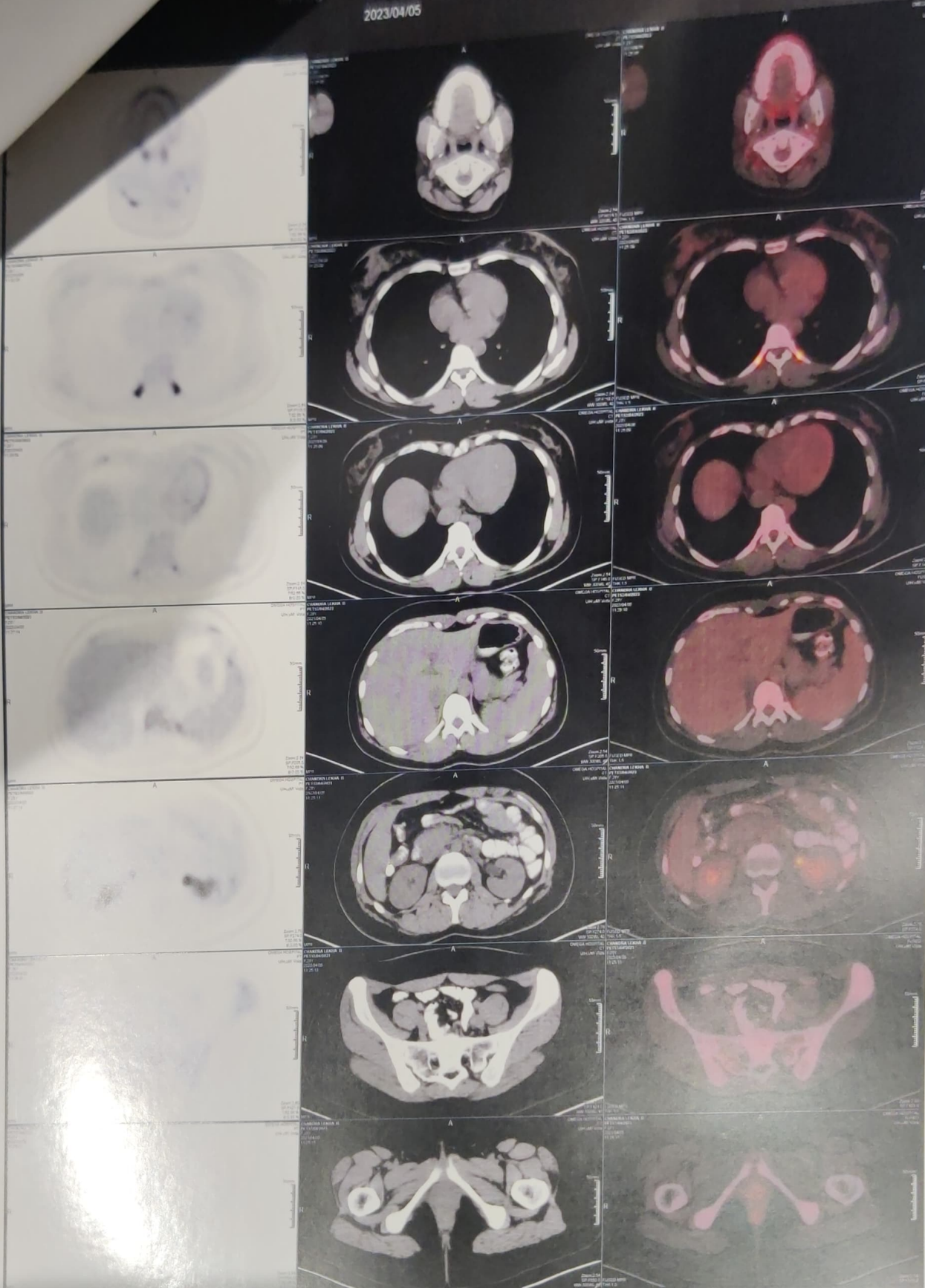


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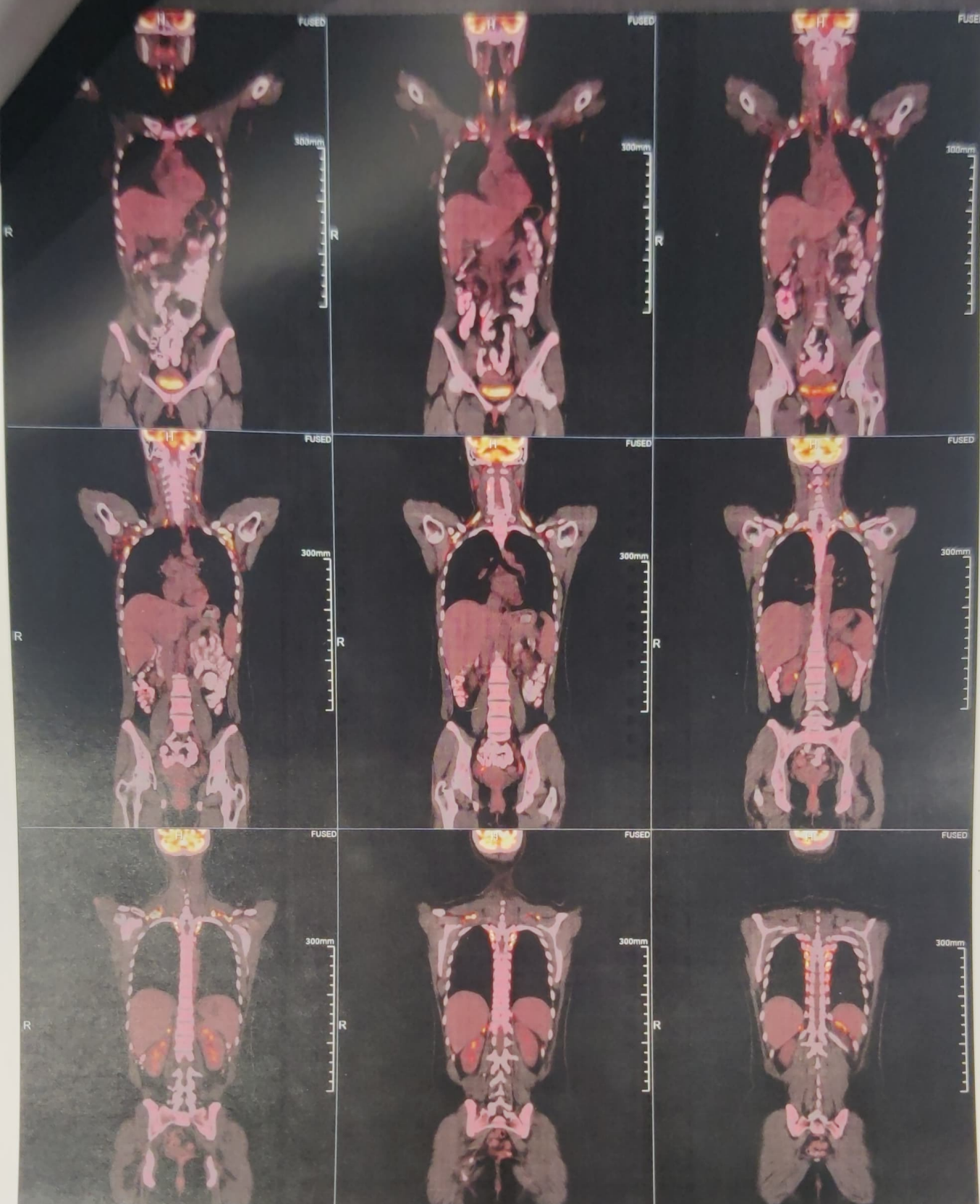
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