

Name: Doaa Farid Hamed Abd Al Fattah
Referred by: Prof. Ramy Nakhla

ID: 3818389
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¹⁸F-FDG PET/CT examination

Clinical Indication:

- *Patient with history of endoscopically detected stomach mass, for assessment.*

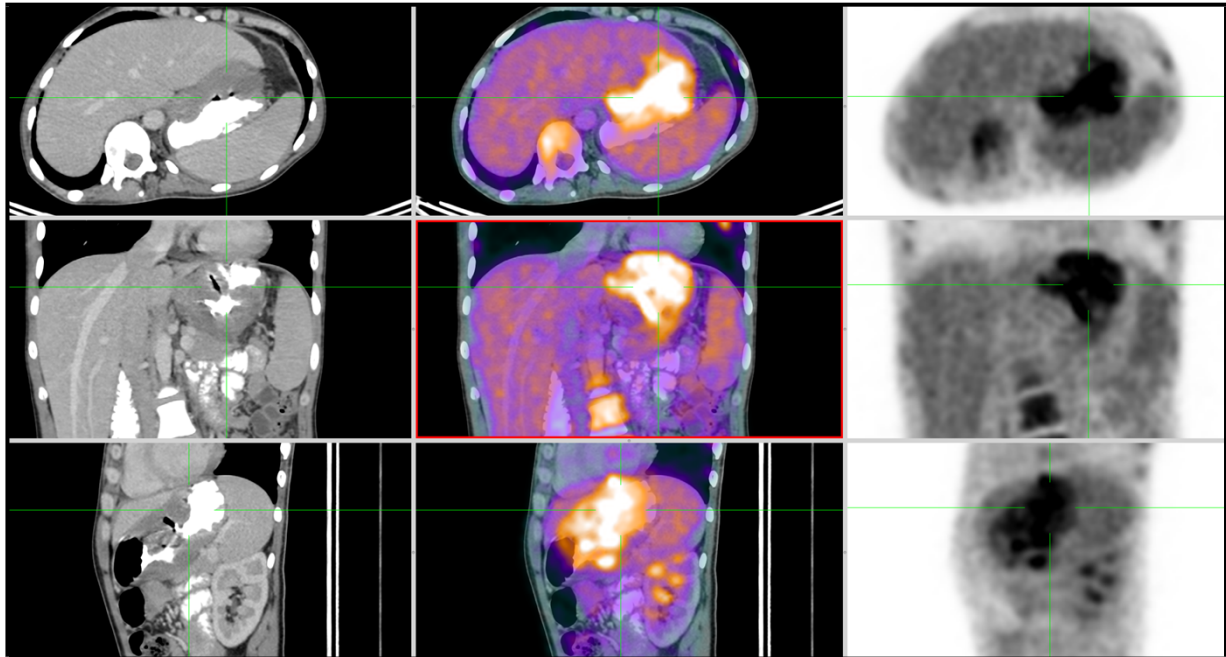
Administered activity: 222 MBq. ¹⁸F-FDG

B.G.L.: 101 mg/dL

Examination protocol:

- A Whole body PET/CT study was obtained from skull vertex to the mid thigh using a low dose non contrast CT for attenuation correction
- Diagnostic multislice CT examination after IV contrast administration of the same region.

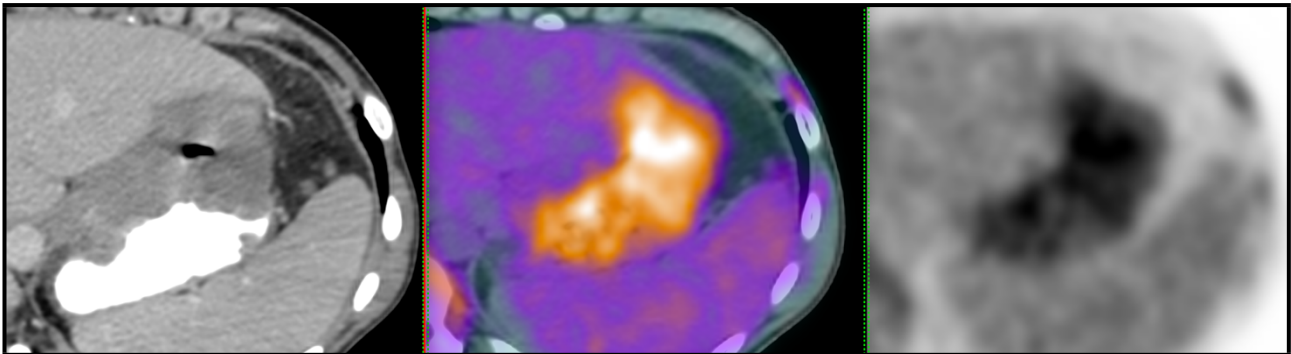
I. PET/CT Findings:



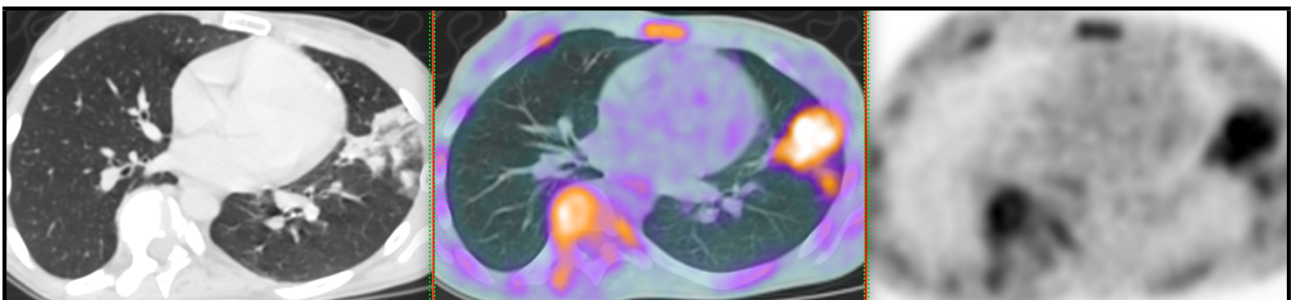
- **Stomach:**

- Increased FDG uptake corresponding to **irregular circumferential mural thickening involving the gastric cardia, fundus and body**, SUVmax 5, measures about 3.5 cm in maximum thickness and extends along about 11 cm.
- No proximal dilatation.

- Stranding of adjacent fat planes.



- **Lymph nodes**, low grade FDG uptake by small **regional peri-gastric lymph nodes**; SUVmax 1 as measured over 0.7 cm node.



- **Lungs:**
 - Increased FDG uptake corresponding to **left upper lobe nodular and ground glass densities and atelectatic changes, likely inflammatory, for clinical correlation.**
 - No FDG avid pulmonary nodules.
 - Non-FDG avid calcified right lower lobe nodule.

- **Liver:**
 - No FDG avid focal lesions.
 - No dilated intra-hepatic biliary radicals.
Patent portal vein.

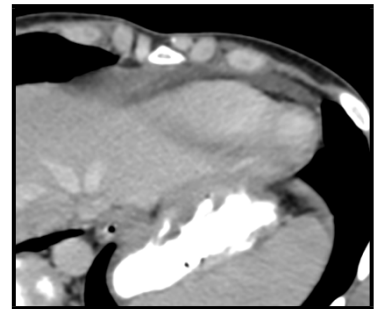
- **Bone marrow:**



- **Diffuse** increased FDG uptake within the bone marrow, **for clinical and laboratory correlation.**
- Scoliosis of the dorsal spine.
- **Brain**, no FDG avid lesions.

II. Diagnostic CT Findings:

- No pleural collection.
- The spleen, pancreas, adrenals, kidneys, pelvic organs, aorta and IVC appear unremarkable.
- **Mild ascites.**
- **Minimal pericardial effusion.**



OPINION:

- Metabolically active stomach neoplasm with low grade metabolically active peri-gastric lymph nodes as described, for correlation with histopathology.
- Metabolically active left lung changes as described, likely inflammatory, for clinical correlation.

Radiologist
Dr. Mohamed Hoseny, MD

Nuclear Medicine Physicians
Dr. Sherif El-Refaei, MD, EBNM
Dr. Marwa Maamoun, MD