

PETIMAGING

INTEGRATED PET/CT SCANNING CASE STUDY N^o 74

Leiomyosarcoma

A 56 year old female presents to the emergency room with severe abdominal pain. Ultrasound of the liver discovers a liver mass. CT scans of the abdomen and pelvis identify two sites of disease in the liver and in the left hemipelvis. Biopsy reveals leiomyosarcoma.

PET/CT is ordered to ensure patient's eligibility as a surgical candidate by ruling out additional sites of metastasis. Hypermetabolic activity is identified in the medial aspect of the left lobe of the liver and in a 4.6 x 3.2 cm mass near the lumbosacral junction. No additional metastatic disease is identified; however, due to the size of the tumors, neoadjuvant chemotherapy is initiated prior to surgery.

