

PETIMAGING

INTEGRATED PET/CT SCANNING CASE STUDY N^o 67

Locally Advanced Breast Cancer



An 83 year old female is diagnosed with invasive breast cancer. Biopsy results reveal poorly differentiated infiltrating ductal carcinoma, grade III. CT identifies the breast mass and a lytic lesion in the T11 spine, while bone scan is negative for metastatic disease. **CT and physical exam do not reveal any lymph node involvement.** PET/CT, ordered to stage the breast cancer, identifies a large primary tumor replacing the right breast with an SUV of 4.3 and **abnormal tracer uptake in the right axilla.** As well, PET/CT identifies hypermetabolic uptake in the lytic lesion at T11. No additional metastatic disease is identified.