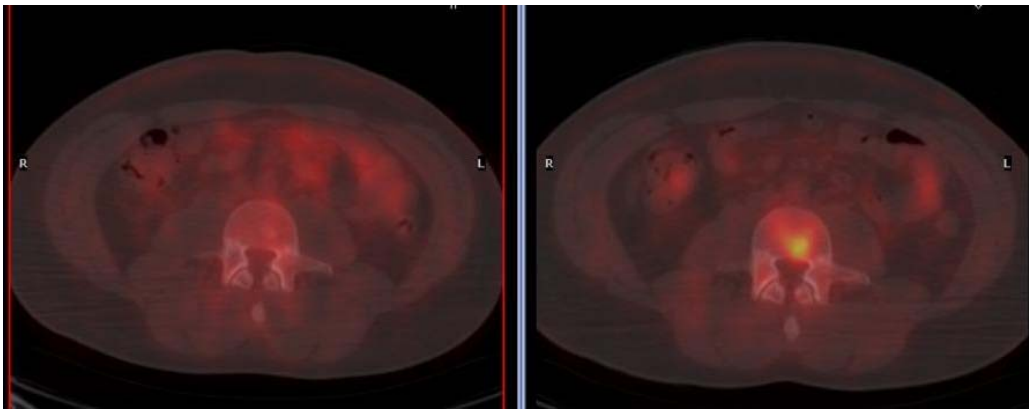


# PETIMAGING

## INTEGRATED PET/CT SCANNING CASE STUDY N<sup>o</sup> 81

### 6 Week Progression of Ewing's Sarcoma

A 20 year old patient presents with back pain, night sweats and a 20 lb weight loss in 2 months. A biopsy of the thoracic spine reveals Ewing's Sarcoma. PET/CT, ordered for staging, identifies hypermetabolic activity in the T12 vertebral body and an adjacent paraspinal mass. The patient undergoes chemotherapy and radiation therapy, and follow-up PET/CT in January reveals a resolution of the previously identified abnormalities. In February, the patient begins to have sweats and fever again, and a pelvic MRI suggests possible recurrence in the hips. PET/CT, ordered to restage the sarcoma, discovers the interval development of new foci of hypermetabolic activity in the T5, T7, T12, C2, C5 and C7 vertebral bodies, the medial aspect of the clavicles, the proximal humeri, proximal femora as well as in the pelvis, sacrum, and several ribs. This is biopsy proven to be sarcoma, and the patient is scheduled for bone marrow transplant.



Post-Treatment

6 Weeks Later

