

PETIMAGING

INTEGRATED PET/CT SCANNING CASE STUDY N° 94

Prostate Cancer: Negative Conventional Imaging and Rising PSA

A 50 year old male is diagnosed in December with a T1c Nx M0 Gleason score 6 adenocarcinoma of the prostate. Pre-treatment PSA is 10.1. He undergoes brachytherapy and external beam radiation with completion in June. By November his PSA rises to 25.2. **CT of the pelvis and abdomen and a bone scan are negative for malignancy.** PET/CT, ordered to detect a recurrence, discovers hypermetabolic lymph nodes in the periaortic and iliac regions with SUVs peaking at 5.1, hypermetabolic bilateral hilar masses with FDG-avid AP window adenopathy, as well as hypermetabolic bilateral pulmonary nodules.

