Clinical summary

• Female 44 year-old with locally advanced breast carcinoma

• Baseline PET/CT detected a solitary hepatic metastasis, not known prior to PET

• Repeat PET/CT performed for assessing therapeutic response post-cycle 3 chemotherapy
PET/CT findings

Baseline PET/CT

- Left breast carcinoma
- Solitary liver metastasis

Post cycle 3 restaging PET/CT

- Primary breast – significant, but partial metabolic response
- Hepatic lesion - complete metabolic response
Clinical summary

- Female 57 year-old with breast carcinoma and known extensive skeletal, pulmonary and mediastinal nodal metastases
- PET/CT performed for assessment of treatment response post-chemotherapy
The post-treatment PET scan shows excellent but incomplete metabolic response to treatment, with residual disease in the right hemithorax.

Physiologic bowel activity in the right pelvis superior to the bladder is noted.
Teaching point

• FDG PET/CT is potentially appropriate for assessment of response to chemotherapy in locally advanced and/or metastatic disease.