Na 18F PET Bone Scan

- Agent just approved by CMS (March 2010)
- More accurate than planar bone scans OR SPECT scan
Comparison to 99Tc MDP

- Less protein binding
- Better first pass extraction
- So ... blood clearance much faster resulting in ...
  - BETTER TARGET TO BACKGROUND RATIO
  - Additionally, PET SCANNERS HAVE HIGHER RESOLUTION THAN SPECT(much better than planar bone scans which is what is done most commonly)
  - LOCALIZING CT LEADS TO BETTER SPECIFICITY
Comparison to 99Tc MDP

- Similar physiology as MDP in that it is taken up by the BONE RESPONSE to tumor
- Interpretation is the same as 99mTc bone scans
- Faster than current bone scans
- Can image 15 to 30 minutes after injection
- No need for additional studies when combined with CT
• Will also see mets occult on FDG PET

• Particularly PROSTATE, lung, breast where there are sclerotic mets often missed on FDG PET
Same patient lung ca

Na 18F
Radiation Dose

- Na 18F in the range of 4 - 7 mSv / scan
- Very similar to 99m Tc MDP dose
Covered for the following indications through NOPR

1) Diagnosis of metastatic disease without a pathological proven diagnosis of cancer

2) Suspected new osseous metastasis

3) Suspected progression of known osseous metastasis

4) Monitoring treatment response for person with known osseous metastasis
NORP

• National Oncologic Pet Registry

• Requires registering pt and sending to approved center (AMI)

• Forms are straight forward but are needed for reimbursement at this time

• We can help educate staff on how to quickly fill out forms
Summary

• Better bone scanning method than 99Tc MDP
• Covered for Medicare patients under research protocol (NOPR)
• Currently should be used for Medicare patients in place of traditional bone scan for more accuracy and sensitivity
• Will need to register patient to be reimbursed (easy)
• WILL identify more mets and (more importantly) more PATIENTS with mets