UNM HOSPITALS

High-Resolution Bone Scan (NaF PET-CT)

Special Instructions	**Have patient drink water before injection and during the uptake phase. Patient should void immediately prior to imaging.** **To be performed ONLY at UNMH.**

Radiopharmaceutical: F-18 sodium fluoride (NaF)

Dose (Adult/Pediatric): Refer to Nuclear Medicine Dose Chart

Route of Administration: Intravenous.

Patient Preparation: Please ensure the following:

- Patients should be well hydrated before and during the examination (drink lots of fluids) and void frequently after injection. Patients should void immediately before imaging. The patient does not need to be NPO.
- All metal must be removed from the patient prior to scanning, including (but not limited to) bras, dentures, earrings, rings, and watches.
- For whole-body scans, pants with metal zippers may be pulled down to below knee level on scanning table (if scanning through the knees), or the patient may put on a gown.

Equipment Setup: Time per bed position (minutes):

	OSIS PET-CT	UNMH PET-CT
Whole body	1	3
Limited (pelvis, legs, etc)	1	3

Region to be imaged:

Whole body bone (#6):

- Top of skull through the feet unless otherwise specified by the radiologist, **arms down.**

Limited:

- Region to image as specified by radiologist.

Additional modifications may be made by the radiologist.

CT imaging protocol: **Low dose**, 3 mm slice thickness.

Patient Positioning: Supine. Head first (unless limited examination of the legs/feet, then feet first)

Procedure: Imaging time post injection: Typically 1 hour (minimum 45 minutes)

- Have patient drink water (preferably at least one glass if able) during the uptake phase and void immediately prior to imaging.

High-Resolution Bone Scan (Na F PET-CT) (continued)

Acquisition:

- On chronicle, enter PET dose, time administered, and time per bed position
- Load topogram
- Set parameters for scan
- Load → move → start
- When CT is complete (approximately 25 secs), you will be prompted to move patient for PET scan (table moves all the way to the back of the gantry)
- Options → PET monitor to view scan length if desired (applies to UNMH PET only; displays how long the entire PET scan will take).
- When acquisition is complete, load fusion on Wizard before sending to PACS and Leonardo

Processing: Follow automatic processing workflow

- Process CT in B 5 31 (soft tissue) and B60 (bone) algorithm
- Process PET into attenuation corrected and non-attenuation corrected PET files
- Generate PET-CT fused axial data set using B60 (bone algorithm) with the attenuation corrected PET

Items Required For Complete Study:

- Enter protocol, protocoling physician, F-18 NaF dose, and injection site in comments section on PACS
- Processing and transfer of all images to PACS and/or Leonardo as appropriate
  - Topogram to PACS
  - Fused axial images to PACS
  - CT, PET Corrected, and PET Uncorrected to PACS and Leonardo.
- Complete the examination in RIS