

Division of Nuclear Medicine Procedure / Protocol University Hospital and The American Center

GENERAL SPECT/CT PROCESSING
UPDATED: SEPTEMBER 2019

CPT CODE: N/A

Recon / Reformat Processing and Screen Captures for SPECT/CT

Reconstruction Options:	Infinia 1/2/3 & NM640 with Xeleris 4.x
Reconstruction Type	OSEM
Number of OSEM Iterations	2
Max Number of Subsets	10
Correction Options:	
Corrections	Attenuation Correction
Additional Set	
Filters:	
Pre-Filter	
Pre Critical Frequency	
Pre Power	
Post-Filter	Butterworth
Critical Frequency	0.45
Power	10.0

Single Bed Position SPECT/CT or SPECT	Multiple Bed Position SPECT/CT or SPECT
Infinia 1/2/3 & NM640 with Xeleris 4.x	Infinia 1/2/3 & NM640 with Xeleris 4.x
1. Select the Patient and the following files	1. Select the Patient and the following files
a. TOMOHWKY	a. TOMOHWKY (FOV1)
b. CT TOMOHWKY (if CT was Acquired)	b. CT TOMOHWKY (FOV1) (if CT was Acquired)
c. ATT MAP TOMOHWKY (if CT was Acquired)	c. ATT MAP TOMOHWKY (FOV1) (if CT was Acquired)
	d. TOMOHWKY (FOV2)
	e. CT TOMOHWKY (FOV2) (if CT was Acquired)
	f. ATT MAP TOMOHWKY (FOV2) (if CT was Acquired)
	OPTIMA WILL ONLY HAVE 1 CT FILE
2. Run UWH SINGLE AND MULTIPLE BP processing icon	2. Run UWH SINGLE AND MULTIPLE BP processing icon
a. Check for Motion	a. Check for Motion
b. Click Original if no motion	b. Click Original if no motion
c. Check for motion between the SPECT and CT (if CT was Acquired)	c. Check for motion
d. Click Passed (if CT was Acquired)	d. Click Original if no motion
	e. Check for motion between the SPECT and CT (if CT was Acquired)
	f. Click Passed (if CT was Acquired)
	g. Check for motion between the SPECT and CT (if CT was Acquired)
	h. Click Passed (if CT was Acquired)

	i. Verify the FOV's line up correctly (if CT was Acquired)
	j. Click Pasted (if CT was Acquired)
	3. Select Fused 3 Planes (NM 3 planes for SPECT only)
	a. Select the layout tab
	b. Under display mode select the drop down menu
	c. Select Save & Print
	d. On the bottom left corner image, slide the green parameters in or out to trim the excess empty slices
	e. Repeat trimming for the Posterior, Left and Right Lateral views by hovering the cursor along the right edge of the image and selecting the plane that needs to be trimmed
	4. Adjust intensity accordingly
	5. Click File and save MIP
	6. Click File and Save as Partial Volume
	7. Click File and Save & Exit

PACS

Send NM- Transaxials, NM- Coronals, NM- Sagittals, Fusion- Transaxials, Fusion- Sagittals, Fusion-Coronals, CT- Transaxial MIP to PACS. Note: screen caps are no longer sent to PACS

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