Privileged and Confidential Peer Review
Release or disclosure of this document is prohibited in accordance with 8.01-581.17 Code of Virginia Worksheet Only
Must Complete Online
(See Online Testing)

Phantom Site Scanning Data Forms



PET Accreditation Program

Type of Unit: □	PET/CT [PET/MF	R ∏PETo	only				
Equipment				,				
PROCESSING SO	OFTWARE							
Vers	ion of Softv	vare				Vend	lor	
Has all submitted (data from th	ne PET s	ystem bee	n proces	sed with	this com	puter system?	□ Y □ N
TRANSMISSION	SOLIDOES	(for atto	nuation co	rroction\	? Y	N		
Type / Number of Sources	Vend		Total A	ctivity,	Dat	te of Ilation		Frequency of Updates
333.333				<u> </u>				
								1
,								
Rod sizes (small to la	rge):	4.8	6.4	7.9	9.5	11.1	12.7 mm	
Cylinder sizes (small t	to large):	8	12	16	25	mm		

Phantom Dilution Worksheet

Enter dose and time below

	Dose	Time	Dose Ratios
Patient Dose:			
FDG dose (A), mCi:			FDG Doses: B/A
FDG dose (B), mCi:			
Test dose #1, μCi:			Test Doses: 1/2
Test dose #2, μCi:			
Actual start time of phantom scan:			

When entering SUV parameters for the PET scanning protocol use a 70 kg patient and use the Patient Dose (e.g. 10 mCi) from above with the measurement time entered for dose A.

PET Quality Control Summary

Are you following the manufacturer's recommended QC?- \square Yes \square No If no, please explain why?	
Acquisition and Reconstruction Parameters (Whole Body Protocol) Enter all appropriate acquisition parameters below (list other parameters that may be relevant):	
Type of PET(/CT) unit:	
Acquisition used: (Select one)	
Bed position	
Continuous bed motion	
Emission scan (time per bed): min Transmission scan (time per bed): Number of bed positions used for phantom:	- min
Total scan time: min	
Are different protocols used for children?	
·	
Describe any modified pediatric protocols and dose reduction techniques:	-
	_
Enter all reconstruction parameters below:	
Reconstruction Parameters Type of reconstruction (OSEM, FBP, etc.):	
OSEM: Iterations, Subsets Processing Filter:	_,
Setting:	
Slice Thickness:cm	
Do you use PSF (Point Spread Function) correction? \qed Y \qed N	
Do you use time of flight? $\ \ \Box\ Y\ \ \Box\ N$	
Please select one of the following if PET/MR is selected as the unit type:	
Type of attenuation correction applied: □ MR □ CT Template □ Other	
Additional information	

SUV Analysis Worksheet

For SUV calculations, enter the following into the site's computer: Use the **patient dose** previously selected from the phantom dose chart on page 10. **DO NOT use the value of dose B. Use 70 kg (154 pounds) as the patient's weight**. Use the ROI data obtained for the minimum (min.), maximum(max.) and mean SUV values to complete tables 1 & 2 below.

	Patient Dose:		mCi PET(/C		CT) Model:				
rom the ROI da	nta of minimum (n	nin.), max	kimum ((max.) and	d mea	n SUVs	(SUV p	parameters: patio	
lose and 70 kg	weight) fill in Tab	le 1 and 2	2 below	. If the sm	alles	t vials a	re not	visible, please ei	
0".									
Slice Number wi	here SUV Measur	ements w	vere Ob	otained:				_	
A) Contrast –	Table 1								
	Hot Vial 8 mm	Hot Vial 12 mm		Hot Vial 16 mm		Hot Vial 25 mm			
Max. SUV									
3) Scatter/Att	enuation – Tal	1	.			•		14/-4-	
	Background	E	Bone		Air			Water	
Mean SUV									
Min. SUV									
	ulations (using	ı data fr	om Ta	ables 1 8	k 2 a	bove):			
max. vial SUV to mean background SUV		8mm/bkgd							
backgro		8mm/b	kgd	12mm/bl	kgd	16mm	/bkgd	25mm/bkgd	
e.g., Contrast	t = 8mm SUV /	8mm/b	kgd	12mm/bl	kgd	16mm	/bkgd	25mm/bkgd	
e.g., Contrast bkgd max. vial SL	ound SUV	vial		12mm/bl		16mm/ mm/25m		25mm/bkgd 16mm/25mm	
e.g., Contrast bkgd max. vial SL	t = 8mm SUV / I SUV JV to <u>max.</u> 25 mm max16 mm SUV /	vial							
e.g., Contrast bkgd max. vial SL e.g., Contrast =	t = 8mm SUV / I SUV JV to <u>max.</u> 25 mm max16 mm SUV /	vial max 25		1/25mm		mm/25m	m		