

## 4\_8\_PET\_Breathhold.Adult

22. oktober 2012

# Indhold

<b>1</b>	<b>Topogram</b>	<b>1</b>
1.1	Routine . . . . .	1
1.2	Scan . . . . .	1
<b>2</b>	<b>Lunge</b>	<b>1</b>
2.1	Routine . . . . .	1
2.2	Scan . . . . .	2
2.3	Recons . . . . .	2
2.3.1	Recon 1 . . . . .	2
2.3.2	Recon 2 . . . . .	3
2.3.3	Recon 3 . . . . .	4
<b>3</b>	<b>Pause</b>	<b>4</b>
<b>4</b>	<b>PET Lunge</b>	<b>4</b>
4.1	Routine . . . . .	4
4.2	Scan . . . . .	5
4.3	Recons . . . . .	5
4.3.1	Recon 1 . . . . .	5
4.3.2	Recon 2 . . . . .	6
4.3.3	Recon 3 . . . . .	7
<b>5</b>	<b>Pause</b>	<b>7</b>
<b>6</b>	<b>PET Lunge</b>	<b>7</b>
6.1	Routine . . . . .	7
6.2	Scan . . . . .	8
6.3	Recons . . . . .	8
6.3.1	Recon 1 . . . . .	8
6.3.2	Recon 2 . . . . .	9
6.3.3	Recon 3 . . . . .	10
<b>7</b>	<b>Pause</b>	<b>10</b>
<b>8</b>	<b>PET Lunge</b>	<b>10</b>
8.1	Routine . . . . .	10
8.2	Scan . . . . .	11
8.3	Recons . . . . .	11
8.3.1	Recon 1 . . . . .	11
8.3.2	Recon 2 . . . . .	12
8.3.3	Recon 3 . . . . .	13

# **1 Topogram**

## **1.1 Routine**

- mA: 35
- kV: 120
- Topogram length: 512 mm
- Tube position: Top

## **1.2 Scan**

- mA: 35
- kV: 120
- Delay: 6s
- Topogram length: 512 mm
- Direction: Craniocaudal
- Tube position: Top
- API: API 962494eb-db00-4e54-b01b-9e42ecd67603
- Kernel: 20
- Window: Topogram

# **2 Lunge**

## **2.1 Routine**

- Eff. mAs: 225
- kV: 120
- CARE Dose4D: On
- CareDoseType: CareDoseAEC
- CTDIvol: 17.1mGy

- Scan time: 0.970 s
- Delay: 10.000 s
- Slice: 3 mm
- No. of images: Samme som i foerste recon, slet?(y/n)
- Tilt: 0.0 grader

## **2.2 Scan**

- Quality ref. mAs: 225
- Eff. mAs: 225
- kV: 120
- Scan time: 0.970 s
- Rotation time: 0.500 s
- Delay: 10.000 s
- Slice: 3 mm
- Pitch: 1.40
- Direction: Caudocranial

## **2.3 Recons**

### **2.3.1 Recon 1**

- Series description: tmp Lunge RTD
- Slice: 5
- Kernel: B18f
- Window: Mediastinum
- Extended FoV: false
- FoV: 331
- Center X: 0

- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Caudocranial
- Recon increment: 5.000
- No. of images: 1

### **2.3.2 Recon 2**

- Series description: CT Lunge 3.0 B18f
- Slice: 3
- Kernel: B18f
- Window: Mediastinum
- Extended FoV: false
- FoV: 331
- Center X: 0
- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Craniocaudal
- Recon increment: 3.000
- No. of images: 1

### **2.3.3 Recon 3**

- Series description: CT Lunge 3.0 B70f
- Slice: 3
- Kernel: B70f
- Window: Lung
- Extended FoV: false
- FoV: 331
- Center X: 0
- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Craniocaudal
- Recon increment: 3.000
- No. of images: 1

## **3 Pause**

## **4 PET Lunge**

### **4.1 Routine**

- Isotope: F-18
- Pharm.: Fluorodeoxyglucose
- Inj. Dose: 300000000.000000 Bequerels
- Inj. date (date/month - year): 14/05 - 2012
- Inj. time: 14:22:33

- Scan mode: Sinogram
- Scan range: Do not match CT FOV
- No. of beds: Not given. Check recon range
- Scan duration/bed: 20.000000 Seconds

## **4.2 Scan**

- Autoload: true
- Rebinner LUT: N/A
- Scan output: Sinogram
- Sinogram mode: false
- Input trigger signal: None
- LLD (keV): N/A
- ULD (keV): N/A

## **4.3 Recons**

### **4.3.1 Recon 1**

- Series description: PET Lunge Iterativ
- Recon range (bed): 1 to 1
- Output image type: Corrected
- Recon method: Iterative3D
- Iterations: 4
- Subsets: 8
- Image size: 200
- Zoom: 1
- Filter: Gaussian
- FWHM (mm): 4.000000

- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: On (1)
- Scatter correction: false
- Match CT slice location: false
- Save intermediate data: false

#### **4.3.2 Recon 2**

- Series description: PET Lunge TrueX+TOF
- Recon range (bed): 1 to 1
- Output image type: Corrected
- Recon method: Iterative3D
- Iterations: 3
- Subsets: 24
- Image size: 400
- Zoom: 1
- Filter: Gaussian
- FWHM (mm): 4.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: On (1)
- Scatter correction: false
- Match CT slice location: false
- Save intermediate data: false



### **4.3.3 Recon 3**

- Series description: PET Lunge OSEM
- Recon range (bed): 1 to 1
- Output image type: Corrected
- Recon method: Iterative3D
- Iterations: 4
- Subsets: 8
- Image size: 256
- Zoom: 1
- Filter: Gaussian
- FWHM (mm): 4.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: On (1)
- Scatter correction: false
- Match CT slice location: false
- Save intermediate data: false

## **5 Pause**

## **6 PET Lunge**

### **6.1 Routine**

- Isotope: F-18
- Pharm.: Fluorodeoxyglucose
- Inj. Dose: 300000000.000000 Bequerels
- Inj. date (date/month - year): 14/05 - 2012

- Inj. time: 14:22:33
- Scan mode: Sinogram
- Scan range: Do not match CT FOV
- No. of beds: Not given. Check recon range
- Scan duration/bed: 20.000000 Seconds

## **6.2 Scan**

- Autoload: true
- Rebinner LUT: N/A
- Scan output: Sinogram
- Sinogram mode: false
- Input trigger signal: None
- LLD (keV): N/A
- ULD (keV): N/A

## **6.3 Recons**

### **6.3.1 Recon 1**

- Series description: PET Lunge Iterativ
- Recon range (bed): 1 to 1
- Output image type: Corrected
- Recon method: Iterative3D
- Iterations: 4
- Subsets: 8
- Image size: 200
- Zoom: 1
- Filter: Gaussian

- FWHM (mm): 4.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: On (1)
- Scatter correction: false
- Match CT slice location: false
- Save intermediate data: false

### **6.3.2 Recon 2**

- Series description: PET Lunge TrueX+TOF
- Recon range (bed): 1 to 1
- Output image type: Corrected
- Recon method: Iterative3D
- Iterations: 3
- Subsets: 24
- Image size: 400
- Zoom: 1
- Filter: Gaussian
- FWHM (mm): 4.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: On (1)
- Scatter correction: false
- Match CT slice location: false
- Save intermediate data: false

### **6.3.3 Recon 3**

- Series description: PET Lunge OSEM
- Recon range (bed): 1 to 1
- Output image type: Corrected
- Recon method: Iterative3D
- Iterations: 4
- Subsets: 8
- Image size: 256
- Zoom: 1
- Filter: Gaussian
- FWHM (mm): 4.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: On (1)
- Scatter correction: false
- Match CT slice location: false
- Save intermediate data: false

## **7 Pause**

## **8 PET Lunge**

### **8.1 Routine**

- Isotope: F-18
- Pharm.: Fluorodeoxyglucose
- Inj. Dose: 300000000.000000 Bequerels
- Inj. date (date/month - year): 14/05 - 2012

- Inj. time: 14:22:33
- Scan mode: Sinogram
- Scan range: Do not match CT FOV
- No. of beds: Not given. Check recon range
- Scan duration/bed: 20.000000 Seconds

## **8.2 Scan**

- Autoload: true
- Rebinner LUT: N/A
- Scan output: Sinogram
- Sinogram mode: false
- Input trigger signal: None
- LLD (keV): N/A
- ULD (keV): N/A

## **8.3 Recons**

### **8.3.1 Recon 1**

- Series description: PET Lunge Iterativ
- Recon range (bed): 1 to 1
- Output image type: Corrected
- Recon method: Iterative3D
- Iterations: 4
- Subsets: 8
- Image size: 200
- Zoom: 1
- Filter: Gaussian

- FWHM (mm): 4.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: On (1)
- Scatter correction: false
- Match CT slice location: false
- Save intermediate data: false

### **8.3.2 Recon 2**

- Series description: PET Lunge TrueX+TOF
- Recon range (bed): 1 to 1
- Output image type: Corrected
- Recon method: Iterative3D
- Iterations: 3
- Subsets: 24
- Image size: 400
- Zoom: 1
- Filter: Gaussian
- FWHM (mm): 4.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: On (1)
- Scatter correction: false
- Match CT slice location: false
- Save intermediate data: false

### 8.3.3 Recon 3

- Series description: PET Lunge OSEM
- Recon range (bed): 1 to 1
- Output image type: Corrected
- Recon method: Iterative3D
- Iterations: 4
- Subsets: 8
- Image size: 256
- Zoom: 1
- Filter: Gaussian
- FWHM (mm): 4.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: On (1)
- Scatter correction: false
- Match CT slice location: false
- Save intermediate data: false