

WB\_FDG\_PET\_CT\_IV\_Lunge\_5.MlAdult\_PET5

3. december 2012

# Indhold

<b>1</b>	<b>Topogram</b>	<b>1</b>
1.1	Routine . . . . .	1
1.2	Scan . . . . .	1
<b>2</b>	<b>CT Lung</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
<b>3</b>	<b>Pause</b>	<b>4</b>
<b>4</b>	<b>CT WB</b>	<b>4</b>
4.1	Routine . . . . .	4
4.2	Scan . . . . .	4
4.3	Recons . . . . .	5
4.3.1	Recon 1 . . . . .	5
4.3.2	Recon 2 . . . . .	5
4.3.3	Recon 3 . . . . .	6
4.3.4	Recon 4 . . . . .	7
<b>5</b>	<b>Pause</b>	<b>7</b>
<b>6</b>	<b>PET WB</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

# **1 Topogram**

## **1.1 Routine**

- mA: 35
- kV: 120
- Topogram length: 1536 mm
- Tube position: Top

## **1.2 Scan**

- mA: 35
- kV: 120
- Delay: 8s
- Topogram length: 1536 mm
- Direction: Craniocaudal
- Tube position: Top
- API: API 32
- Kernel: 80s shar
- Window: Topogram Body

# **2 CT Lung**

## **2.1 Routine**

- Eff. mAs: 100
- kV: 120
- CARE Dose4D: On
- CareDoseType: CareDoseAEC
- CTDIvol: 8.26mGy

- Scan time: 12.140 s
- Delay: 8.000 s
- Slice: 5.00 mm
- No. of images: Samme som i foerste recon, slet?(y/n)
- Tilt: 0.0 grader

## **2.2 Scan**

- Quality ref. mAs: 100
- Eff. mAs: 100
- kV: 120
- Scan time: 12.140 s
- Rotation time: 0.500 s
- Delay: 8.000 s
- Slice: 5.00 mm
- Pitch: 1.4000000
- Direction: Caudocranial

## **2.3 Recons**

### **2.3.1 Recon 1**

- Series description: CT Lunge 3.0 B19f
- Slice: 5.00
- Kernel: B19f PET very smooth
- Window: Mediastinum
- Extended FoV: Off
- FoV: 440
- 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: 127

### **2.3.2 Recon 2**

- Series description: CT Lung 2.0 B70f
- Slice: 2.00
- Kernel: B70f very sharp
- Window: Lung
- Extended FoV: Off
- FoV: 440
- Center X: 0
- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Craniocaudal
- Recon increment: 1.500
- No. of images: 254

### **3 Pause**

### **4 CT WB**

#### **4.1 Routine**

- Eff. mAs: 225
- kV: 120
- CARE Dose4D: On
- CareDoseType: CareDoseAEC
- CTDIvol: 15.169mGy
- Scan time: 14.410 s
- Delay: 60.000 s
- Slice: 3.00 mm
- No. of images: Samme som i foerste recon, slet?(y/n)
- Tilt: 0.0 grader

#### **4.2 Scan**

- Quality ref. mAs: 225
- Eff. mAs: 225
- kV: 120
- Scan time: 14.410 s
- Rotation time: 0.500 s
- Delay: 60.000 s
- Slice: 3.00 mm
- Pitch: 1.0500000
- Direction: Craniocaudal

## **4.3 Recons**

### **4.3.1 Recon 1**

- Series description: AC CT
- Slice: 3.00
- Kernel: B19f PET very smooth
- Window: Abdomen
- Extended FoV: On
- FoV: 700
- 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: 274

### **4.3.2 Recon 2**

- Series description: CT WB 3.0 B30f
- Slice: 3.00
- Kernel: B30f medium smooth
- Window: Abdomen
- Extended FoV: Off
- FoV: 500
- 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: 274

#### **4.3.3 Recon 3**

- Series description: CT WB 3.0 COR
- Slice: 3.00
- Kernel: B30f medium smooth
- Window: Abdomen
- Extended FoV: Off
- FoV: 821
- Center X: 0
- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: 3D
- Recon Axis: Coronal
- Image order: AP
- Recon increment: 3.000
- No. of images: 167



#### **4.3.4 Recon 4**

- Series description: CT WB 3.0 SAG
- Slice: 3.00
- Kernel: B30f medium smooth
- Window: Abdomen
- Extended FoV: Off
- FoV: 821
- Center X: 0
- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: 3D
- Recon Axis: Sagittal
- Image order: LeftToRight
- Recon increment: 3.000
- No. of images: 274

## **5 Pause**

## **6 PET WB**

### **6.1 Routine**

- Isotope: F-18
- Pharm.: FDG
- Inj. Dose: 400 MegaBequerels
- Inj. date (date/month - year): 23/03 - 2011
- Inj. time: 13:04:00

- Scan mode: Sinogram
- Scan range: Match CT FOV
- No. of beds: 1
- Scan duration/bed: 150 Seconds

## **6.2 Scan**

- Autoload: On
- Rebinner LUT: Off
- Scan output: Sinogram
- Sinogram mode: Trues
- Input trigger signal: None
- LLD (keV): 435
- ULD (keV): 650

## **6.3 Recons**

### **6.3.1 Recon 1**

- Series description: PET WB Image check
- Recon range (bed): Automatic/All/dunno
- Output image type: Corrected
- Recon method: Iterative
- Iterations: 4
- Subsets: 8
- Image size: 168
- Zoom: 1
- Filter: Gaussian
- FWHM (mm): 4

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

### **6.3.2 Recon 2**

- Series description: PET WB Corr True X 2 mm
- Recon range (bed): Automatic/All/dunno
- Output image type: Corrected
- Recon method: TrueX
- Iterations: 3
- Subsets: 21
- Image size: 336
- Zoom: 1
- Filter: Gaussian
- FWHM (mm): 2
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: Off (1)
- Scatter correction: On
- Match CT slice location: On
- Save intermediate data: Off