

4\_DOHAN\_Terapi\_PET\_CT\_FDG\_nr2.Adult\_PET4

27. februar 2013

# Indhold

|          |                      |          |
|----------|----------------------|----------|
| <b>1</b> | <b>Topogram</b>      | <b>1</b> |
| 1.1      | Routine . . . . .    | 1        |
| 1.2      | Scan . . . . .       | 1        |
| <b>2</b> | <b>PreMonitoring</b> | <b>1</b> |
| 2.1      | Routine . . . . .    | 1        |
| 2.2      | Scan . . . . .       | 2        |
| 2.3      | Recons . . . . .     | 2        |
| 2.3.1    | Recon 1 . . . . .    | 2        |
| <b>3</b> | <b>Monitoring</b>    | <b>3</b> |
| 3.1      | Routine . . . . .    | 3        |
| 3.2      | Scan . . . . .       | 4        |
| 3.3      | Recons . . . . .     | 4        |
| 3.3.1    | Recon 1 . . . . .    | 4        |
| <b>4</b> | <b>WB CT</b>         | <b>5</b> |
| 4.1      | Routine . . . . .    | 5        |
| 4.2      | Scan . . . . .       | 5        |
| 4.3      | Recons . . . . .     | 6        |
| 4.3.1    | Recon 1 . . . . .    | 6        |
| 4.3.2    | Recon 2 . . . . .    | 6        |
| 4.3.3    | Recon 3 . . . . .    | 7        |
| 4.3.4    | Recon 4 . . . . .    | 8        |
| 4.3.5    | Recon 5 . . . . .    | 8        |
| <b>5</b> | <b>Pause</b>         | <b>9</b> |
| <b>6</b> | <b>PET WB</b>        | <b>9</b> |
| 6.1      | Routine . . . . .    | 9        |
| 6.2      | Scan . . . . .       | 9        |
| 6.3      | Recons . . . . .     | 10       |
| 6.3.1    | Recon 1 . . . . .    | 10       |
| 6.3.2    | Recon 2 . . . . .    | 11       |
| 6.3.3    | Recon 3 . . . . .    | 11       |
| 6.3.4    | Recon 4 . . . . .    | 12       |
| 6.3.5    | Recon 5 . . . . .    | 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: 4s
- Topogram length: 512 mm
- Direction: Craniocaudal
- Tube position: Top
- API: API
- Kernel: 80
- Window: Topogram

# **2 PreMonitoring**

## **2.1 Routine**

- Eff. mAs: 20
- kV: 120
- CARE Dose4D: Off
- CareDoseType: CareDoseAEC
- CTDIvol: 1.18627mGy

- Scan time: 0.500 s
- Delay: 2.000 s
- Slice: 10 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: 20
- kV: 120
- Scan time: 0.500 s
- Rotation time: 0.500 s
- Delay: 2.000 s
- Slice: 10 mm
- Pitch: 0.00
- Direction: Craniocaudal

## **2.3 Recons**

### **2.3.1 Recon 1**

- Series description: PreMonitoring 10.0 eFoV
- Slice: 10
- Kernel: B19s
- Window: Abdomen
- Extended FoV: On
- FoV: 780
- Center X: 0

- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Craniocaudal
- Recon increment: 10.000
- No. of images: 1

## **3 Monitoring**

### **3.1 Routine**

- Eff. mAs: 20
- kV: 120
- CARE Dose4D: Off
- CareDoseType: CareDoseAEC
- CTDLvol: 35.5881mGy
- Scan time: 0.500 s
- Delay: 10.000 s
- Slice: 10 mm
- No. of images: Samme som i foerste recon, slet?(y/n)
- Tilt: 0.0 grader

## **3.2 Scan**

- Quality ref. mAs: 225
- Eff. mAs: 20
- kV: 120
- Scan time: 0.500 s
- Rotation time: 0.500 s
- Delay: 10.000 s
- Slice: 10 mm
- Pitch: 0.00
- Direction: Craniocaudal

## **3.3 Recons**

### **3.3.1 Recon 1**

- Series description: Monitoring 10.0 eFoV
- Slice: 10
- Kernel: B19s
- Window: Abdomen
- Extended FoV: On
- FoV: 780
- Center X: 0
- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Craniocaudal

- Recon increment: 10.000
- No. of images: 30

## **4 WB CT**

### **4.1 Routine**

- Eff. mAs: 225
- kV: 120
- CARE Dose4D: On
- CareDoseType: CareDoseAEC
- CTDIvol: 16.4451mGy
- Scan time: 32.745 s
- Delay: 4.000 s
- Slice: 2 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: 32.745 s
- Rotation time: 0.500 s
- Delay: 4.000 s
- Slice: 2 mm
- Pitch: 0.80
- Direction: Craniocaudal

## **4.3 Recons**

### **4.3.1 Recon 1**

- Series description: WB CT RTD
- Slice: 4
- Kernel: B19f
- 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: 4.000
- No. of images: 245

### **4.3.2 Recon 2**

- Series description: AC CT 2 mm
- Slice: 2
- Kernel: B19f
- Window: Abdomen
- Extended FoV: On
- FoV: 780
- Center X: 0



- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Craniocaudal
- Recon increment: 2.000
- No. of images: 489

#### **4.3.3 Recon 3**

- Series description: CT WB 2.0 B30f
- Slice: 2
- Kernel: B30f
- 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: 2.000
- No. of images: 489

#### **4.3.4 Recon 4**

- Series description: CT WB 2.0 cor B30f
- Slice: 2
- Kernel: B30f
- Window: Abdomen
- Extended FoV: Off
- FoV: 977
- Center X: 0
- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: 3D
- Recon Axis: Coronal
- Image order: AP
- Recon increment: 2.000
- No. of images: 251

#### **4.3.5 Recon 5**

- Series description: CT WB 2.0 sag B30f
- Slice: 2
- Kernel: B30f
- Window: Abdomen
- Extended FoV: Off
- FoV: 977
- Center X: 0
- Center Y: 0

- Mirroring: None
- Extended CT scale: Standard
- Recon job: 3D
- Recon Axis: Sagittal
- Image order: LeftToRight
- Recon increment: 2.000
- No. of images: 489

## **5    Pause**

## **6    PET WB**

### **6.1   Routine**

- Isotope: F-18
- Pharm.: Fluorodeoxyglucose
- Inj. Dose: 0 Bequerels
- Scan mode: Sinogram
- Scan range: Do not match CT FOV
- No. of beds: Not given. Check recon range
- Scan duration/bed: 2.000000 Minutes

### **6.2   Scan**

- Autoload: On
- Rebinner LUT: Off
- 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 WB Image check HD
- Recon range (bed): 1 to 7
- Output image type: Corrected
- Recon method: TrueX
- Iterations: 2
- Subsets: 12
- Image size: 200
- Zoom: 1
- Filter: Gaussian
- FWHM (mm): 4.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: Off ()
- Scatter correction: On
- Match CT slice location: On
- Save intermediate data: Off

### **6.3.2 Recon 2**

- Series description: PET WB Corr TrueX+TOF 2 mm
- Recon range (bed): 1 to 7
- Output image type: Corrected
- Recon method: TrueXTOF
- Iterations: 2
- Subsets: 21
- Image size: 400
- Zoom: 1
- Filter: Gaussian
- FWHM (mm): 2.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: Off ()
- Scatter correction: On
- Match CT slice location: On
- Save intermediate data: Off

### **6.3.3 Recon 3**

- Series description: PET WB Corr TrueX
- Recon range (bed): 1 to 7
- Output image type: Corrected
- Recon method: TrueX
- Iterations: 2
- Subsets: 24
- Image size: 400

- Zoom: 1
- Filter: Gaussian
- FWHM (mm): 2.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: Off ()
- Scatter correction: On
- Match CT slice location: On
- Save intermediate data: Off

#### **6.3.4 Recon 4**

- Series description: PET WB UDEN True X + TOF
- Recon range (bed): 1 to 7
- 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: Off ()
- Scatter correction: On
- Match CT slice location: On
- Save intermediate data: Off

### 6.3.5 Recon 5

- Series description: PET WB no AC
- Recon range (bed): 1 to 7
- Output image type: Uncorrected
- 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: Off ()
- Scatter correction: On
- Match CT slice location: On
- Save intermediate data: Off