

# PETCT\_Brain\_LM.MlAdult\_PET6

30. maj 2013

# Indhold

|          |                     |          |
|----------|---------------------|----------|
| <b>1</b> | <b>Topogram</b>     | <b>1</b> |
| 1.1      | Routine . . . . .   | 1        |
| 1.2      | Scan . . . . .      | 1        |
| <b>2</b> | <b>CT Brain</b>     | <b>1</b> |
| 2.1      | Routine . . . . .   | 1        |
| 2.2      | Scan . . . . .      | 1        |
| 2.3      | Recons . . . . .    | 2        |
| 2.3.1    | Recon 1 . . . . .   | 2        |
| 2.3.2    | Recon 2 . . . . .   | 2        |
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| <b>3</b> | <b>Pause</b>        | <b>3</b> |
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# **1 Topogram**

## **1.1 Routine**

- mA: 35
- kV: 120
- Topogram length: 256 mm
- Tube position: Lateral

## **1.2 Scan**

- mA: 35
- kV: 120
- Delay: 4s
- Topogram length: 256 mm
- Direction: Craniocaudal
- Tube position: Lateral
- API: None
- Kernel: 20s standar
- Window: Topogram Head

# **2 CT Brain**

## **2.1 Routine**

- Eff. mAs: 380
- kV: 120
- CARE Dose4D: Off
- CareDoseType: CareDoseAEC
- CTDIvol: 59.4292mGy
- Scan time: 16.010 s
- Delay: 4.000 s
- Slice: 3.00 mm
- No. of images: Samme som i foerste recon, slet?(y/n)
- Tilt: 0.0 grader

## **2.2 Scan**

- Quality ref. mAs: 380
- Eff. mAs: 380
- kV: 120
- Scan time: 16.010 s
- Rotation time: 1.000 s
- Delay: 4.000 s
- Slice: 3.00 mm
- Pitch: 0.8000000

- Direction: Caudocranial

## **2.3 Recons**

### **2.3.1 Recon 1**

- Series description: tmp CT Brain RTD
- Slice: 3.00
- Kernel: H19s PET very smooth
- Window: Cerebrum
- Extended FoV: Off
- FoV: 300
- Center X: 0
- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Caudocranial
- Recon increment: 3.900
- No. of images: 57

### **2.3.2 Recon 2**

- Series description: AC CT
- Slice: 3.00
- Kernel: H19s PET very smooth
- Window: Cerebrum
- Extended FoV: Off
- FoV: 300
- Center X: 0
- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Caudocranial
- Recon increment: 1.500
- No. of images: 148

### **2.3.3 Recon 3**

- Series description: CT Brain 3.0 H31s
- Slice: 3.00
- Kernel: H31s medium smooth +
- Window: Cerebrum
- Extended FoV: Off

- FoV: 250
- Center X: 0
- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Caudocranial
- Recon increment: 1.500
- No. of images: 148

### **3 Pause**

## **4 PET Brain LM**

### **4.1 Routine**

- Isotope: F-18
- Pharm.: FDG
- Inj. Dose: 5 Millicuries
- Scan mode: List mode
- Scan range: Match CT FOV
- No. of beds: 1
- Scan duration/bed: 60 Minutes

### **4.2 Scan**

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

### **4.3 Recons**

#### **4.3.1 Recon 1**

- Series description: PET Brain LM
- Recon range (bed): -1 to -1
- Output image type: NoRecon
- Recon method: Iterative
- Iterations: 6
- Subsets: 16
- Image size: 256

- Zoom: 2
- Filter: Gaussian
- FWHM (mm): 2
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: On (1)
- Scatter correction: On
- Match CT slice location: On
- Save intermediate data: Off