

3\_PET\_AC\_LM\_FET\_Brain\_neuroperfusion.Adult\_PET4

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>Lavdosis CT</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
<b>3</b>	<b>Pause</b>	<b>2</b>
<b>4</b>	<b>PET Brain LM</b>	<b>2</b>
4.1	Routine . . . . .	2
4.2	Scan . . . . .	3
4.3	Recons . . . . .	3
4.3.1	Recon 1 . . . . .	3
4.3.2	Recon 2 . . . . .	3
<b>5</b>	<b>Pause</b>	<b>4</b>
<b>6</b>	<b>DynMulti4D</b>	<b>4</b>
6.1	Routine . . . . .	4
6.2	Scan . . . . .	4
6.3	Recons . . . . .	4
6.3.1	Recon 1 . . . . .	4
6.3.2	Recon 2 . . . . .	5
6.3.3	Recon 3 . . . . .	5
6.3.4	Recon 4 . . . . .	6

# **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: API
- Kernel: 20
- Window: Topogram

# **2 Lavdosis CT**

## **2.1 Routine**

- Eff. mAs: 350
- kV: 120
- CARE Dose4D: On
- CareDoseType: CareDoseAEC
- CTDIvol: 59.7805mGy
- Scan time: 26.000 s
- Delay: 2.000 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: 350
- Eff. mAs: 350
- kV: 120
- Scan time: 26.000 s
- Rotation time: 1.000 s
- Delay: 2.000 s
- Slice: 3 mm
- Pitch: 1.50

- Direction: Caudocranial

## **2.3 Recons**

### **2.3.1 Recon 1**

- Series description: Lavdosis CT RTD
- Slice: 1.5
- Kernel: H19s
- 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

### **2.3.2 Recon 2**

- Series description: AC Lavdosis CT
- Slice: 3
- Kernel: H19s
- 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: 3.000
- No. of images: 74

## **3 Pause**

## **4 PET Brain LM**

### **4.1 Routine**

- Isotope: F-18

- Pharm.: FET
- Inj. Dose: 185000000 Bequerels
- Scan mode: List mode
- Scan range: Do not match CT FOV
- No. of beds: Not given. Check recon range
- Scan duration/bed: 20.000000 Minutes

## **4.2 Scan**

- Autoload: Off
- Rebinner LUT: Off
- Scan output: List mode
- 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: FET stat 20-40 min 5 mm 4
- Recon range (bed): 1 to 1
- Output image type: Corrected
- Recon method: Iterative3D
- Iterations: 4
- Subsets: 12
- Image size: 400
- Zoom: 2.500000
- Filter: Gaussian
- FWHM (mm): 5.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: Off ()
- Scatter correction: On
- Match CT slice location: On
- Save intermediate data: Off

### **4.3.2 Recon 2**

- Series description: FET stat 25-35 5 mm CT3mm
- Recon range (bed): 1 to 1
- Output image type: Corrected
- Recon method: Iterative3D
- Iterations: 4
- Subsets: 12

- Image size: 400
- Zoom: 2.500000
- Filter: Gaussian
- FWHM (mm): 5.000000
- Offset X: 0 mm
- Offset Y: 0 mm
- Attenuation correction: Off ()
- Scatter correction: On
- Match CT slice location: On
- Save intermediate data: Off

## **5 Pause**

## **6 DynMulti4D**

### **6.1 Routine**

- Eff. mAs: 181
- kV: 80
- CARE Dose4D: Off
- CareDoseType: CareDose
- CTDIvol: 253.326mGy
- Scan time: 1.500 s
- Delay: 4.000 s
- Slice: 5 mm
- No. of images: Samme som i foerste recon, slet?(y/n)
- Tilt: 0.0 grader

### **6.2 Scan**

- Quality ref. mAs: 250
- Eff. mAs: 181
- kV: 80
- Scan time: 1.500 s
- Rotation time: 0.330 s
- Delay: 4.000 s
- Slice: 5 mm
- Pitch: 1.00
- Direction: Caudocranial

### **6.3 Recons**

#### **6.3.1 Recon 1**

- Series description: DynMulti4D RTD
- Slice: 4

- Kernel: H20f
- Window: Cerebrum
- Extended FoV: Off
- FoV: 200
- Center X: 0
- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Caudocranial
- Recon increment: 40.000
- No. of images: 90

### **6.3.2 Recon 2**

- Series description: VPCT DynMulti4D 5.0 H20f
- Slice: 5
- Kernel: H20f
- Window: Cerebrum
- Extended FoV: Off
- FoV: 200
- 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: 480

### **6.3.3 Recon 3**

- Series description: VPCT DynMulti4D 5.0 H20f
- Slice: 5
- Kernel: H20f
- Window: Cerebrum
- Extended FoV: Off
- FoV: 200
- 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: 480

#### **6.3.4 Recon 4**

- Series description: DynMulti4D 5.0 H20f
- Slice: 5
- Kernel: H20f
- Window: Cerebrum
- Extended FoV: Off
- FoV: 200
- 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: 480