# $4\_PET\_CT\_LM\_FET\_Brain\_Terapi\_neuroperf\_dyn.Adult\_PET4$

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## 1 Topogram

#### 1.1 Routine

mA: 35kV: 120

Topogram length: 256 mmTube position: Lateral

#### 1.2 Scan

mA: 35kV: 120Delay: 4s

Topogram length: 256 mmDirection: CraniocaudalTube position: Lateral

API: APIKernel: 20

• Window: Topogram

### 2 CT

#### 2.1 Routine

• Eff. mAs: 350

• kV: 120

• CARE Dose4D: On

• CareDoseType: CareDoseAEC

CTDlvol: 59.7805mGyScan time: 26.222 s

Delay: 2.000 sSlice: 1 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: 26.222 sRotation time: 1.000 s

Delay: 2.000 sSlice: 1 mmPitch: 1.50

• Direction: Caudocranial

#### 2.3 Recons

#### 2.3.1 Recon 1

• Series description: CT RTD

Slice: 1.5Kernel: H19s

Window: CerebrumExtended FoV: Off

FoV: 300Center X: 0Center Y: 0Mirroring: None

• Extended CT scale: Standard

Recon job: AxialRecon Axis: Axial

Image order: CaudocranialRecon increment: 1.500

• No. of images: 149

#### 2.3.2 Recon 2

• Series description: AC CT 1mm

• Slice: 1

• Kernel: H19s

Window: CerebrumExtended FoV: Off

FoV: 300Center X: 0Center Y: 0

• Mirroring: None

• Extended CT scale: Standard

Recon job: AxialRecon Axis: Axial

Image order: CaudocranialRecon increment: 1.000

• No. of images: 224

#### 2.3.3 Recon 3

• Series description: CT 1mm Brain H31s

• Slice: 1

• Kernel: H31s

Window: CerebrumExtended 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: 1.000
- No. of images: 224

#### 2.3.4 Recon 4

- Series description: CT 3.0mm BrainH31s
- Slice: 3
- Kernel: H31s
- 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: 75

## 3 Pause

## 4 PET Brain LM

#### 4.1 Routine

- Isotope: F-18
- Pharm.: FET
- Inj. Dose: 1000000 Bequerels
- Scan mode: List mode
- Scan range: Do not match CT FOV
- No. of beds: Not given. Check recon range
- Scan duration/bed: 40.000000 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 dyn 20-40min 5mm 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

#### 4.3.2 Recon 2

- Series description: FET dyn 10-30min 5mm CT3mm
- Recon range (bed): 1 to 1
- Output image type: Uncorrected
- 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: Off
- Match CT slice location: Off

• Save intermediate data: Off

#### 4.3.3 Recon 3

• Series description: FET Dyn 22f 5mm 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 mmOffset Y: 0 mm

• Attenuation correction: Off ()

• Scatter correction: On

Match CT slice location: OnSave intermediate data: Off

#### 4.3.4 Recon 4

• Series description: FET dyn 25-35min 5mm CT3mm

 $\bullet$  Recon range (bed): 1 to 1

• Output image type: Corrected

• Recon method: Iterative3D

• Iterations: 4

Subsets: 12Image 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
- CTDlvol: 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: CerebrumExtended 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 7.0 H20f
- Slice: 7
- 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: 7.000
- No. of images: 360

#### 6.3.4 Recon 4

- Series description: VPCT DynMulti4D 10.0 H20f
- Slice: 10
- Kernel: H20f
- Window: Cerebrum
- Extended FoV: Off

FoV: 200Center X: 0Center Y: 0Mirroring: None

• Extended CT scale: Standard

Recon job: AxialRecon Axis: Axial

Image order: CaudocranialRecon increment: 10.000

• No. of images: 240