

5\_PET\_CT\_HIV\_RT\_KAR.Adult\_PET4

20. februar 2013

# Indhold

<b>1</b>	<b>Topogram</b>	<b>1</b>
1.1	Routine . . . . .	1
1.2	Scan . . . . .	1
<b>2</b>	<b>CT uden IV</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
2.3.3	Recon 3 . . . . .	4
2.3.4	Recon 4 . . . . .	4
<b>3</b>	<b>Pause</b>	<b>5</b>
<b>4</b>	<b>PET</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 . . . . .	7
4.3.3	Recon 3 . . . . .	7
<b>5</b>	<b>Pause</b>	<b>8</b>
<b>6</b>	<b>PreMonitoring</b>	<b>8</b>
6.1	Routine . . . . .	8
6.2	Scan . . . . .	9
6.3	Recons . . . . .	9
6.3.1	Recon 1 . . . . .	9
<b>7</b>	<b>Monitoring</b>	<b>10</b>
7.1	Routine . . . . .	10
7.2	Scan . . . . .	10
7.3	Recons . . . . .	11
7.3.1	Recon 1 . . . . .	11
<b>8</b>	<b>CT med IV</b>	<b>11</b>
8.1	Routine . . . . .	11
8.2	Scan . . . . .	12
8.3	Recons . . . . .	12
8.3.1	Recon 1 . . . . .	12

8.3.2	Recon 2	. . . . .	13
8.3.3	Recon 3	. . . . .	14
8.3.4	Recon 4	. . . . .	14
8.3.5	Recon 5	. . . . .	15
8.3.6	Recon 6	. . . . .	16

# **1 Topogram**

## **1.1 Routine**

- mA: 35
- kV: 120
- Topogram length: 1024 mm
- Tube position: Top

## **1.2 Scan**

- mA: 35
- kV: 120
- Delay: 4s
- Topogram length: 1024 mm
- Direction: Craniocaudal
- Tube position: Top
- API: API
- Kernel: 80
- Window: Topogram

# **2 CT uden IV**

## **2.1 Routine**

- Eff. mAs: 170
- kV: 120
- CARE Dose4D: On
- CareDoseType: CareDoseAEC
- CTDIvol: m 1=0.000000 12.4252mGy

- Scan time: 20.425 s
- Delay: 2.000 s
- Slice: 2 mm
- No. of images: Samme som i foerste recon, slet?(y/n)
- Tilt: 0.0 grader

## **2.2 Scan**

- Quality ref. mAs: 170
- Eff. mAs: 170
- kV: 120
- Scan time: 20.425 s
- Rotation time: 0.500 s
- Delay: 2.000 s
- Slice: 2 mm
- Pitch: m 1=-1 0.80
- Direction: Craniocaudal

## **2.3 Recons**

### **2.3.1 Recon 1**

- Series description: m 1=12345 *MA* m 2= CT uden IV 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: 151

### **2.3.2 Recon 2**

- Series description: m 1=45AC CT 2.0 *MA* m 2= AC CT 2.0
- 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: 301

### **2.3.3 Recon 3**

- Series description: m 1=CT uden IV 2.0 345*MA* m 2= CT uden IV 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: 301

### **2.3.4 Recon 4**

- Series description: m 1=45CT uden IV 1.
- Slice: 1.5
- Kernel: B26f
- Window: CT
- Extended FoV: Off
- FoV: 172
- Center X: 0
- Center Y: 0

- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Craniocaudal
- Recon increment: 0.700
- No. of images: 219

### **3    Pause**

## **4    PET**

### **4.1   Routine**

- Isotope: F-18
- Pharm.: Fluorodeoxyglucose
- Inj. Dose: 1000000 Bequerels
- Scan mode: Sinogram
- Scan range: Do not match CT FOV
- No. of beds: Not given. Check recon range
- Scan duration/bed: 3.000000 Minutes

### **4.2   Scan**

- Autoload: On
- Rebinner LUT: Off
- Scan output: Sinogram
- Sinogram mode: false
- Input trigger signal: None



- LLD (keV): n/a
- ULD (keV): n/a

## **4.3 Recons**

### **4.3.1 Recon 1**

- Series description: PET WB Image check HD
- Recon range (bed): 1 to 4
- 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

#### **4.3.2 Recon 2**

- Series description: PET Corr TrueX+TOF 2 mm
- Recon range (bed): 1 to 4
- 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

#### **4.3.3 Recon 3**

- Series description: PET Corr 512 5i24s z2f2 noTOF noPSF PE
- Recon range (bed): 1 to 4
- Output image type: Corrected
- Recon method: Iterative3D
- Iterations: 5
- Subsets: 24
- Image size: 512

- Zoom: 2.000000
- 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

## **5 Pause**

## **6 PreMonitoring**

### **6.1 Routine**

- Eff. mAs: 20
- kV: 120
- CARE Dose4D: Off
- CareDoseType: CareDoseAEC
- CTDIvol: m 1=0.000000 1.18627mGy
- 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

## 6.2 Scan

- Quality ref. mAs: 120
- Eff. mAs: 20
- kV: 120
- Scan time: 0.500 s
- Rotation time: 0.500 s
- Delay: 10.000 s
- Slice: 10 mm
- Pitch: m 1=-1 0.00
- Direction: Craniocaudal

## 6.3 Recons

### 6.3.1 Recon 1

- Series description: m 1=12345*MA* m 2= PreMonitoring 10.0 eFoV
- Slice: 10
- Kernel: B30s
- 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

## 7 Monitoring

### 7.1 Routine

- Eff. mAs: 20
- kV: 120
- CARE Dose4D: Off
- CareDoseType: CareDoseAEC
- CTDIvol: m 1=0.000000 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

### 7.2 Scan

- Quality ref. mAs: 120
- Eff. mAs: 20
- kV: 120
- Scan time: 0.500 s
- Rotation time: 0.500 s
- Delay: 10.000 s
- Slice: 10 mm
- Pitch: m 1=-1 0.00
- Direction: Craniocaudal

## **7.3 Recons**

### **7.3.1 Recon 1**

- Series description: m 1=12345*MA* m 2= Monitoring 10.0 eFoV
- Slice: 10
- Kernel: B30s
- 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

## **8 CT med IV**

### **8.1 Routine**

- Eff. mAs: 119
- kV: 120
- CARE Dose4D: On
- CareDoseType: CareDoseAEC
- CTDIvol: m 1=0.000000 8.69087mGy

- Scan time: 13.826 s
- Delay: 10.000 s
- Slice: 2 mm
- No. of images: Samme som i foerste recon, slet?(y/n)
- Tilt: 0.0 grader

## 8.2 Scan

- Quality ref. mAs: 119
- Eff. mAs: 119
- kV: 120
- Scan time: 13.826 s
- Rotation time: 0.500 s
- Delay: 10.000 s
- Slice: 2 mm
- Pitch: m 1=-1 1.20
- Direction: Craniocaudal

## 8.3 Recons

### 8.3.1 Recon 1

- Series description: m 1=12345 *MA* m 2= CT med IV RTD
- Slice: 4
- 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: 4.000
- No. of images: 151

### **8.3.2 Recon 2**

- Series description: m 1=CT med IV 2.0 345*MA* m 2= CT med IV 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: 302



### 8.3.3 Recon 3

- Series description: m 1=45CT med IV 2.0
- Slice: 2
- Kernel: B26f
- Window: CT
- 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: 302

### 8.3.4 Recon 4

- Series description: m 1=5CT med IV 2.0 cor *MA* m 2= CT med IV 2.0 cor
- Slice: 2
- Kernel: B30f
- Window: Abdomen
- Extended FoV: Off
- FoV: 753
- 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: 168

### **8.3.5 Recon 5**

- Series description: m 1=5CT med IV 2.0 sag *MA* m 2= CT med IV 2.0 sag
- Slice: 2
- Kernel: B30f
- Window: Abdomen
- Extended FoV: Off
- FoV: 753
- 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: 251

### 8.3.6 Recon 6

- Series description: m 1=CT med IV 245*Slice* : 1.5
- Kernel: B26f
- Window: CT
- Extended FoV: Off
- FoV: 165
- Center X: 0
- Center Y: 0
- Mirroring: None
- Extended CT scale: Standard
- Recon job: Axial
- Recon Axis: Axial
- Image order: Craniocaudal
- Recon increment: 0.700
- No. of images: 218