

磁共振规范化扫描方案（3.0T）

---中华磁共振应用学院系列教材

# 颈髓弥散张量成像



imagination at work

## 患者摆位:

1. 头部扫描必须配带耳塞，听力保护。
2. 摆位时，肩部紧贴线圈，左右居中，头部不能旋转，同时必须用三角垫固定头部。注意，下颌紧收，不能仰起，这样使颈椎不会过度弯曲，必要时垫高背部或枕部。
3. 定位中心位于下颌下缘。

# 摆位照片:



# 摆位照片：

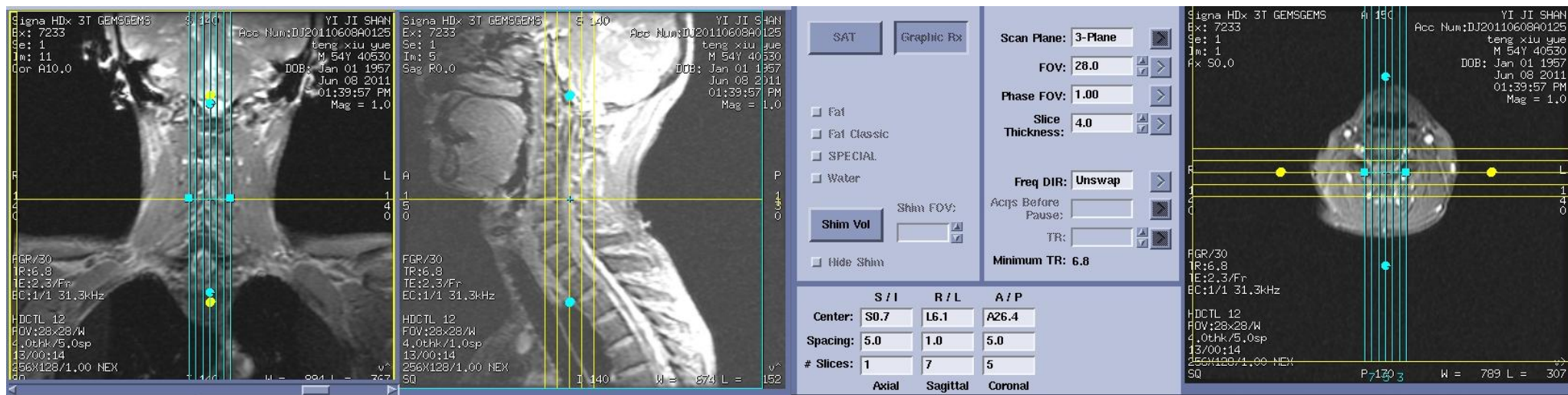


# 颈椎规范化扫描方案:

1	3-pl T2* Loc	三平面定位	
2	Ax-TOF-Loc	横断面 <b>TOF</b> 定位像	
3	OCor ceMRA Mask	冠状面增强血管蒙片	
4	OCor ceMRA+C FluoroTrigger	透视触发增强血管	
5	OCor ceMRA+C SmartPrep	智能跟踪增强血管	
6	OCor TRICKS+C	动态血管增强扫描	

# 3-pl Loc, 三平面定位扫描

1. 定位中心位于下颌下缘。
2. 扫描结束后，观察图像，检查颈部位置是否合适，图像信号与线圈位置是否良好匹配。
3. 三平面定位图像，冠状面要包括脊髓。





# 横断面血管定位图像:

The screenshot displays a GE MRI console interface with the following components:

- Left Panel:** Shows two axial cross-sections of a patient's neck and chest. The top image is a T1-weighted scan, and the bottom is a T2-weighted scan. A grid of green lines is overlaid on the images, indicating the location of the cross-sections. Technical details include:
  - Ex: 7233, Se: 1, In: 11, Cor: A10.0
  - DOB: Jan 01 1957, Jun 08 2011
  - TE: 2.3/Pr, EC: 1/1 31.3kHz
  - HDCTL 12, FOV: 28x28/W, 4.0thk/5.0sp, 13/00:14, 256x128/1.00 NEX
- Right Panel:** Shows a similar view of the neck and chest, with a different grid overlay. Technical details include:
  - Ex: 7233, Se: 2, In: 6, OSag: L4.8
  - DOB: Jan 01 1957, Jun 08 2011
  - TE: 2.3/Pr, EC: 1/1 50kHz
  - HDCTL 12/FL:s, FOV: 24x24/W, 3.0thk/1.0sp, 12/01:33, 320x224/2.00 NEX, FCF/St:Slv/NP/TRF/SPF
- Central Control Panel:** Contains various settings for the scan:
  - SAT:** Graphic Rx
  - Scan Plane:** Axial
  - FOV:** 25.0
  - Phase FOV:** 0.60
  - Slice Thickness:** 4.0
  - Spacing:** 0.0
  - Freq DIR:** R/L
  - TR:** 7000.0
  - Minimum TR:** 1000.0
  - Shim Vol:** 13
  - Shim FOV:** (with checkboxes for Fat, Fat Classic, SPECIAL, Water)
  - Start/End:** L4.8, A27.1, S80.6 (Start) and L4.8, A27.1, I43.4 (End)
  - # of Slices:** 32
- Right Panel (Inset):** Shows a small inset image of the patient's head, with a grid overlay. Technical details include:
  - Ex: 7233, Se: 1, In: 1, Ax: S0.0
  - DOB: Jan 01 1957, Jun 08 2011
  - TE: 2.3/Pr, EC: 1/1 31.3kHz
  - HDCTL 12, FOV: 28x28/W, 4.0thk/5.0sp, 13/00:14, 256x128/1.00 NEX

# 磁共振规范化扫描方案（3.0T）

---中华磁共振应用学院系列教材



imagination at work