

磁共振规范化扫描方案（HDe）

---中华磁共振应用学院系列教材

腹部增强血管

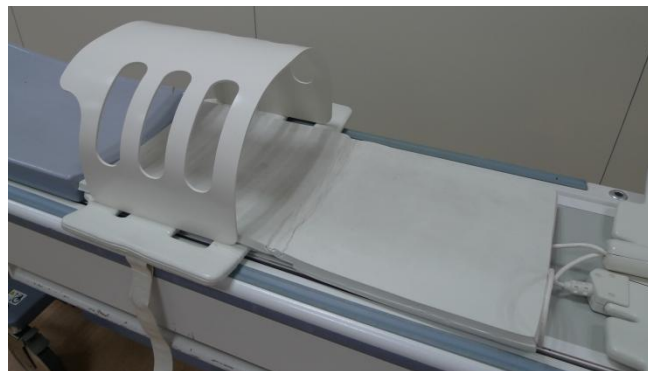


imagination at work

患者摆位:

1. 上腹部扫描前，禁食禁水四小时
2. 仰卧位，脚先进，身体左右居中，两前臂交叉抱头（注意，不是两手交叉在一起）
3. 观察腹部呼吸最明显位置，外加呼吸门控，磁体上的呼吸显示上下波动幅度要超过全长的三分之一。呼吸门控软管上下缘放置软垫，防止线圈直接压迫呼吸门控软管
4. 线圈中心对准胸骨箭突，三平面定位图像上观察肝脏既不能偏上也不能偏下，确保肝脏位于线圈的中心
5. 嘱患者练习呼气末屏气

摆位照片：



腹部血管规范化扫描方案:

1	3-pl T2* Loc	三平面定位	
2	Cal Scan	并行加速校准扫描	
3	Ax-TOF-Loc	横断面 TOF 定位像	
4	OCor ceMRA Mask	冠状面增强血管蒙片	
5	OCor ceMRA+C FluoroTrigger	透视触发增强血管	
6	OCor ceMRA+C SmartPrep	智能跟踪增强血管	
7	OCor TRICKS+C	动态血管增强扫描	



For GE Internal Use Only. Not for External Distribution.

横断面血管定位图像:

The screenshot displays a GE medical imaging console interface. On the left, two sagittal views of a patient's abdomen are shown, with a vertical red line indicating the location of the axial slice. The central panel contains various control options:

- SAT** and **Graphic Rx** buttons.
- Scan Plane:** Axial
- FOV:** 45.0
- Phase FOV:** 0.60
- Slice Thickness:** 5.0
- Overlap:** 0.0
- Freq DIR:** R/L
- Locs Before Pause:** 0
- TR:** Minimum
- Minimum TR:** 5.1
- Shim Vol** and **Shim FOV** controls.
- Start:** 0.0, 0.0, S200.0
- End:** 0.0, 0.0, I185.0
- # of Slices:** 78

 On the right, an axial cross-section of the abdomen is displayed, showing internal organs and vessels. Technical details for the scan are visible at the bottom right:

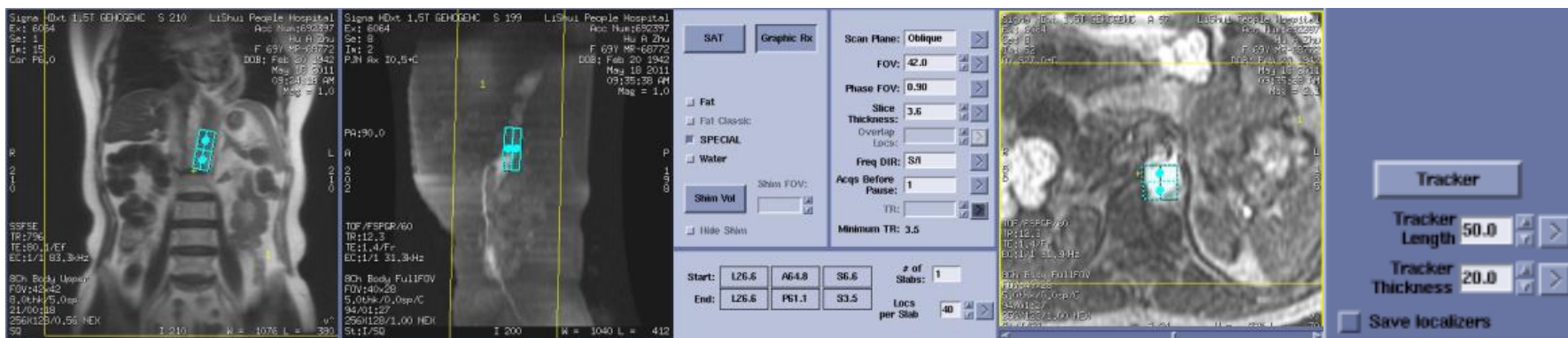
- FIESTA/45**
- TR: 3.4**
- TE: 1.1/1.1 Fr**
- EC: 1/1 125k-Hz**
- SUS_TORSOPA**
- FOV: 48x48/W**
- 8.0thk/10.0sp**
- 13/00:07**
- 256x128/1.00 NEX**
- SQ**
- P 220**
- W = 909 L = 332**

 Patient information is also visible at the top of the console, including name (YI JI SHAN), sex (M), and date of birth (Jun 01 1961).

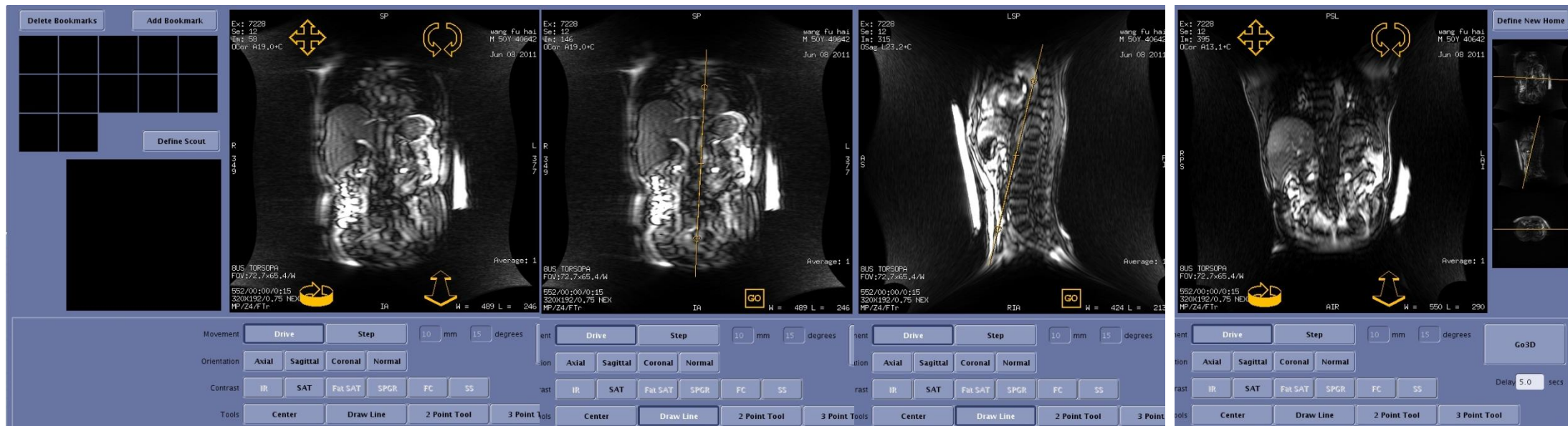
冠状面增强血管定位图像:



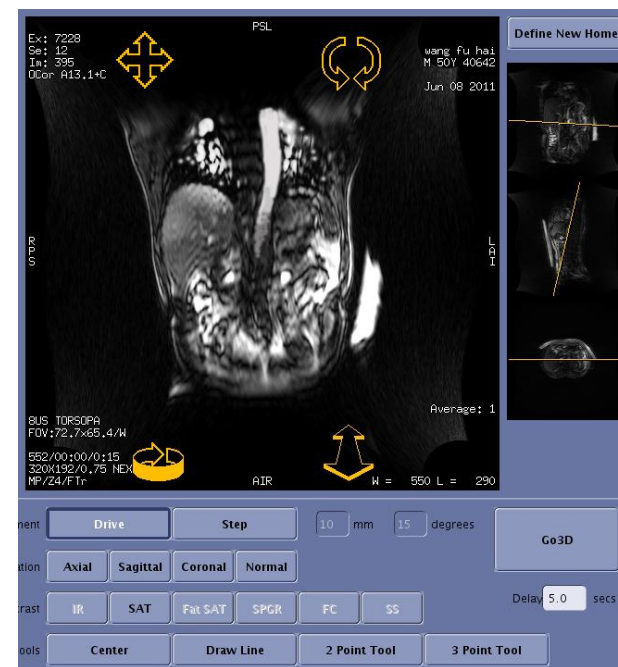
冠状面增强血管定位图像:



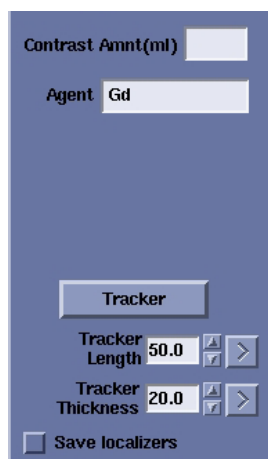
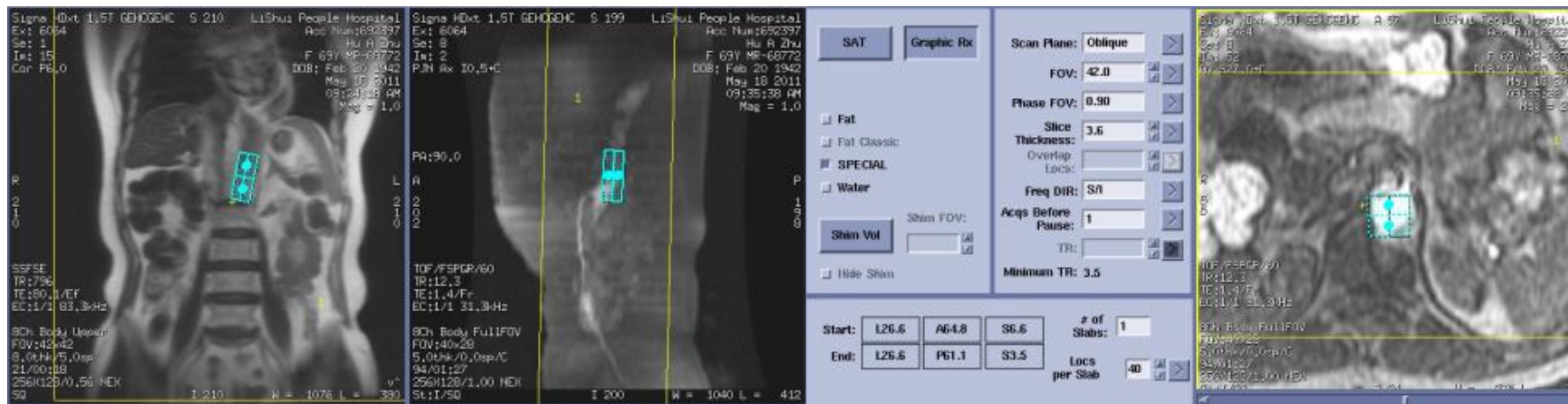
透视触发定位冠状面血管:





















透视触发法增强血管冠状面定位(FluoroTrigger):



造影剂智能跟踪法增强血管冠状面定位(SmartPrep):

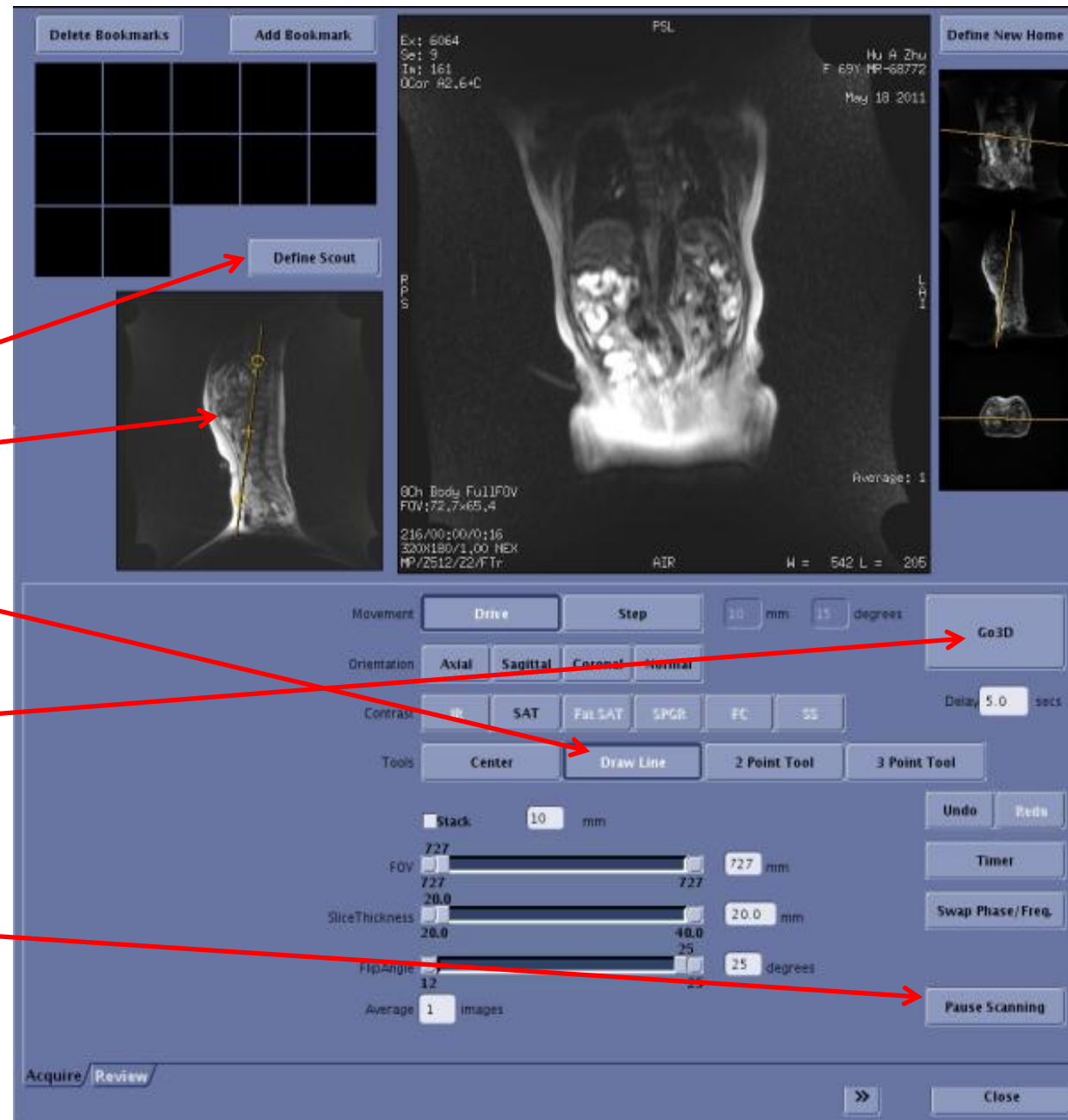


造影剂智能跟踪法增强血管定位(SmartPrep):

May 18 9:43 AM	640034 left @ 256 ² 227527 left @ 512 ²	May 18 9:43 AM	640034 left @ 256 ² 227527 left @ 512 ²	May 18 9:43 AM	640034 left @ 256 ² 227527 left @ 512 ²
Disk 17% full		Disk 17% full		Disk 17% full	
ACQUIRING BASELINE DATA		BEGIN CONTRAST INJECTION		CONTRAST DETECTED	
 Scanning			 Scanning		
					
 Removed Exam 5583	 Sent: 6064/8 (MR_aw44)	 Removed Exam 5583	 Sent: 6064/8 (MR_aw44)	 Removed Exam 5583	 Sent: 6064/8 (MR_aw44)

实时定位窗口介绍:

- 1、OCor ceMRA+C FluoroTrigger序列保存完后，download—scan。注意必须等待OCor ceMRA Mask序列的所有图像都重建完成之后方可点击scan
- 2、桌面将会切换至右图所示的界面。点击Define scout可将主屏实时图像抓到左侧小屏内
- 3、点击Draw Line
- 4、在左侧小屏内点左键，此时即会出现一条黄色的定位线，此时主屏内的图像就实时的显示为定位线所经过的层面：点住中间的十字架可任意拖动位置，两侧的圆圈可以旋转定位线
- 5、找到主动脉弓。开始打药，待药到达后主动脉弓会由黑变亮，点Go3D。界面会自动切换至扫描界面
- 6、当您不知下一步该如何操作，请点击Pause Scanning，想一下，再点击Pause Scanning，实时界面即可被激活



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