

MRI Scan Parameter SpreadSheet

Scan Parameters: For each parameter in the left column, circle the setting or value that will be used, or circle Specify: and enter the setting or value. Write N/A if parameter is not relevant to the sequence. Write N/A next to a Section Heading if all parameters are not relevant. Write ? if unsure of parameter applica

Patient Position

<i>Patient position</i>	Supine	Prone	Specify:
<i>Patient entry</i>	Head first	Feet first	Specify:
<i>RF coil</i>	Head Coil	Body Coil	Specify:
<i>Landmark</i>	Nasion	Sternal Notch	Specify:
<i>in description (e.g. PD/T2 SE Axial)</i>	Specify:		
<i>Other (name and value)</i>	Specify:		Specify:

Imaging Parameters

<i>Plane</i>	Axial	Coronal	Sagittal	Oblique	3-Plane	Specify:
<i>Mode</i>	2D	3D	CINE	MRS	Specify:	
Pulse sequences						
<i>STANDARD</i>	Spin Echo (SE)	Inversion Recovery	Localizer			
<i>GRADIENT ECHO</i>	GRE	Fast GRE	SPGR	Fast SPGR		
<i>FAST SPIN ECHO</i>	FSE	SSFSE-IR	SSFSE	FSE-IR	FLAIR	
<i>VASCULAR</i>	TOF-GRE	TOF-SPGR	Phase Contrast	Fast TOF-GRE		
	FastCard-GRE	FastCard-SPGR	Fast 2D Phase Contrast	Fast TOF-SPGR		
<i>ECHO PLANAR</i>	Spin Echo EPI	Gradient Echo EPI	DW EPI	FLAIR EPI		
<i>SPECTROSCOPY</i>	PROBE-P	PROBE-S				
<i>Other (name and value)</i>	Specify:		Specify:			

Imaging Options

	Variable Bandwidth	Square Pixel	Sequential	DE Prepped	ZIP 512
	Flow compensation	Intensity Correction	Gating	Multi-phase	ZIP x2
	No Phase Wrap	Respiratory Compensation	Respiratory Triggering	Full Echo Train	ZIP x4
	POMP	Classic	Tailored RF	Cardiac COMP	Smart Prep
	Extended Dyn. Range	Magnetization Transfer	IR Prepped	ZIP 1024	
<i>Others:</i>	Specify:				
<i>Psd name</i>	Specify:				
<i>Protocol name</i>	Specify:				
<i>Others (name and value)</i>	Specify:		Specify:		

Scan Timing

<i># of echos</i>	1	2	4	Specify:		
<i># of shots (EPI)</i>	1	2	4	Specify:		
<i>TE</i>	Minimum	Minimum Full	Specify:			
<i>additional TE</i>	Specify:					
<i>TR</i>	Specify:					
<i>Inversion Time (TI)</i>	Specify:					
<i>Flip angle (degrees)</i>	90	Specify:				
<i>FSE: Echo Train Length (ETL)</i>	4	8	16	32	Specify:	
<i>Bandwidth</i>	16 kHz	32 KHz	62.5	125	250	Specify:
<i>Bandwidth: 2nd echo</i>	16 kHz	10 KHz	8 KHz	4 KHz	Specify:	
<i>Bandwidth addl echos</i>	16 kHz	10 KHz	8 KHz	4 KHz	Specify:	
<i>Fat/Water Relation</i>	In-phase	Out-of-phase	Specify:			
<i>Shimming</i>	Autoshim	Manual	No Shim	Specify:		
<i>Center Frequency</i>	Water	Fat	Specify:			
<i>Others (name and value)</i>	Specify:		Specify:			

Acquisition Timing

<i>Matrix Size X (Freq)</i>	256	512	Specify:			
<i>Matrix Size Y (Phase)</i>	128	192	256	384	512	Specify:
<i>Number of Averages (NEX)</i>	1	2	4	Specify:		
<i>Fractional Phase FOV</i>	1/2	3/4	1	Specify:		
<i>Direction of Frequency Encoding</i>	S/I	A/P	R/L	Oblique	Specify:	
<i>Auto Center Frequency</i>	Water	Fat	Specify:			
<i>Flow Compensation Direction</i>	Slice	Frequency encode	Phase encode	Specify:		
<i>Autoshim</i>	On	Off				
<i>Phase Correct</i>	On	Off				
<i>Breathhold</i>	Yes	No				
<i># of Locs before pause</i>	1	Specify				
<i>Contrast Agent</i>	Yes	No	Type:	Amount:		
<i>Others (name and value)</i>	Specify:		Specify:			

Bolus Injection Issues

<i>Timing of injection</i>	Critical	Non-Critical	
<i>Start scanning Before injection</i>	Yes	No	Specify seconds:
<i>Start scanning after injection</i>	Yes	No	Specify seconds:
<i>Other (name and value)</i>	Specify:		Specify:

Scanning Range

<i>FOV Size</i>	Specify cm:		
<i>Slice thickness</i>	Specify mm:		
<i>Slice Spacing</i>	Specify mm:		
<i>Number of Slices</i>	Specify:		
<i>Start Location</i>	S/I:	L/R:	A/P:
<i>End Location</i>	S/I:	L/R:	A/P:
<i>Fractional Number of Averages</i>	1/2	3/4	Other
<i>Others (name and value)</i>	Specify:		Specify:

RX Scan Time Enter values from MRI system scanning screen

Average Head SAR
 Peak SAR
 Est. SAR
 Max # of Slices/Acq
 # of Acqs
 Others (name and value)

SAT Pulses

Saturation Pulses: Superior (enter #'s below) Inferior (enter #'s below) Anterior Posterior Right Left
 Thickness of SAT pulses (80 mm):
 Saturation (distance from FOV) (30 mm):
 Fat/Water Saturation Fat Water N/A
 Others (name and value) Specify: Specify:

Bolus Injection Issues

Timing of injection Critical Non-Critical
 Amount of time to injection Specify seconds:
 Start scanning Before injection Yes No Time advance (sec):
 Start scanning after injection Yes No Time delay (sec):
 Others (name and value) Specify: Specify:

Vascular Screen

Number of projection images (19)
 Collapse Yes No
 Ramp Pulse S->I I->S Other:
 Flow Recon Type (phase contrast) Phase difference Complex difference
 Velocity encoding (cm/s)
 Flow acquisition direction R/L A/P S/I All
 Flow analysis On Off
 Additional flow images R/L Flow A/P Flow S/I Flow Magnitude
 Others (name and value) Specify: Specify:

User CV Screen

	Name or Description	Setting or Value	Name or Description	Setting or Value
	CV1		CV6	
	CV2		CV7	
	CV3		CV8	
	CV4		CV9	
	CV5		CV10	
	Others (name and value)		Other (name and value)	

Gating Screen

Cardiac Trigger Type ECG Peripheral Pulse Specify:
 # of RR Intervals for TR 1 2 3 Specify:
 Trigger Delay Minimum Recommended
 Inter-seq delay Minimum Even space
 Respiratory Trigger Type 1 2 3 Specify:
 # of Respiratory Intervals
 Trigger Point (%) 10% 20% 30% Specify:
 Inter-seq delay Minimum Even space
 Others (name and value) Specify: Specify:

Gating Screen with Fastcard

Trigger window 10% 20% Specify:
 Views per segment 8 32 Specify:
 # cardiac phases to reconstruct 16 32 Specify:
 Others (name and value) Specify: Specify:

Cine Screen

Trigger Type ECG Peripheral pulse
 Locations per acquisition
 # of cardiac phases to reconstruct Specify: Specify:
 Others (name and value)

Multi-Phase Screen

Phases per location 20 Specify:
 Phase acquisition order Sequential Interleaved Specify:
 Delay after acquisition 20 ms Specify:
 Others (name and value) Specify: Specify:

DWI Screen

B-value
 Diffusion direction R/L A/P S/I All
 Others (name and value) Specify: Specify: Specify:
 Others (name and value) Specify: Specify:

Research Operations

Control Variable Name: Value:
 Control Variable Name: Value:
 Control Variable Name: Value:
 Control Variable Name: Value:
 Control Variable Name: Value: