

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						
STANDARD	Spin Echo (SE)	Inversion Recovery	Localizer			
GRADIENT ECHO	GRE	Fast GRE	SPGR	Fast SPGR		
FAST SPIN ECHO	FSE	SSFSE-IR	SSFSE	FSE-IR	FLAIR	
VASCULAR	TOF-GRE	TOF-SPGR	Phase Contrast	Fast TOF-GRE		
	FastCard-GRE	FastCard-SPGR	Fast 2D Phase Contrast	Fast TOF-SPGR		
ECHO PLANAR	Spin Echo EPI	Gradient Echo EPI	DW EPI	FLAIR EPI		
SPECTROSCOPY	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

# of echos	1	2	4	Specify:		
# of shots (EPI)	1	2	4	Specify:		
TE	Minimum	Minimum Full		Specify:		
TE2	Specify:					
additional TE	Specify:					
TR	Specify:					
Inversion Time (TI)	Specify:					
Flip angle (degrees)	90	Specify:				
FSE: Echo Train Length (ETL)	4	8	16	32	Specify:	
Bandwidth	16 kHz	32 KHz	62.5	125	250	Specify:
Bandwidth: 2nd echo	16 kHz	10 KHz	8 KHz	4 KHz	Specify:	
Bandwidth addl echos	16 kHz	10 KHz	8 KHz	4 KHz	Specify:	
Fat/Water Relation	In-phase	Out-of-phase	Specify:			
Shimming	Autoshim	Manual	No Shim	Specify:		
Center Frequency	Water	Fat	Specify:			
Others (name and value)	Specify:		Specify:			

Acquisition Timing

<i>Matrix Size X (Freq)</i>	256	512	Specify:			
<i>Matrix Size Y (Phase)</i>	128	192	256		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	Specify:
<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):

Position (distance from FOV) (30 mm):

Fat/Water Saturation

Others (name and value)

Fat

Specify:

Water

N/A

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

CV2

CV3

CV4

CV5

Others (name and value)

CV6

CV7

CV8

CV9

CV10

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

Others (name and value)

Specify:

Specify:

Multi-Phase Screen

Phases per location

20

Specify:

Phase acquisition order

Sequential

Interleaved

Specify:

Delay after acquisition

20 ms

Specify:

Specify:

Others (name and value)

Specify:

DWI Screen

B-value

Diffusion direction

Others (name and value)

Others (name and value)

R/L

Specify:

A/P

S/I

All

Specify:

Specify:

Research Operations

Control Variable Name:

Value:

Control Variable Name:

Value:

Control Variable Name:

Value:

Control Variable Name:

Value:

Control Variable Name:

Value: