

Protocol: adult_chest_mra chest w & wo

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>Fiesta</i>
Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>Seq, Fast</i>
Plane	<i>3-PLANE</i>	SCAN RANGE	
Series Description	<i>3-Plane Localizer</i>	FOV	<i>46.0</i>
SCAN TIMING		Slice Thickness	<i>8.0</i>
Flip Angle	<i>45</i>	Slice Spacing	<i>7.0</i>
TE	<i>Min Full</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>132</i>
Receiver Bandwidth	<i>100.00</i>	Phase	<i>128</i>
IMAGE ENHANCE		Freq DIR	<i>Unswap</i>
Filter Choice	<i>None</i>	NEX	<i>1.00</i>
GATING/TRIGGER		# of Acq. Before Pause	<i>0</i>
Auto Trigger Type	<i>Off</i>	Phase FOV	<i>1.00</i>
FMRI		Auto Shim	<i>Auto</i>
PSD Trigger	<i>Internal</i>	Phase Correction	<i>No</i>
View Order	<i>Bottom/Up</i>	USER CVS	
# of Repetitions REST	<i>0</i>	User CV20	<i>1.00</i>
# of Repetitions ACTIVE	<i>0</i>	MULTI-PHASE	
SAT		Seperate Series	<i>0</i>
Tag Type	<i>None</i>	Mask Phase	<i>0</i>
TRICKS		Mask Pause	<i>0</i>
Pause On/Off	<i>On</i>	DIFFUSION	
Auto Subtract	<i>0</i>	Recon All Images	<i>On</i>
Auto SCIC	<i>Off</i>	CONTRAST	
		Contrast Yes/No	<i>No</i>

3-Plane Localizer

3-Plane Localizer

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Cal Body 36 AA2	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>3D</i>
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>SPGR</i>
	Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>EDR, Fast, ZIP2, Calib</i>
	Plane	<i>AXIAL</i>	SCAN RANGE	
	Series Description	<i>Cal Body 36 AA2</i>	FOV	<i>50.0</i>
	SCAN TIMING		Slice Thickness	<i>16.0</i>
	Number of Echoes	<i>1</i>	ACQ TIMING	
	IMAGE ENHANCE		Freq DIR	<i>R/L</i>
	Filter Choice	<i>None</i>	Auto Shim	<i>Auto</i>
	GATING/TRIGGER		Phase Correction	<i>No</i>
	Auto Trigger Type	<i>Off</i>	FMRI	
	MULTI-PHASE		PSD Trigger	<i>Internal</i>
	Seperate Series	<i>0</i>	View Order	<i>Bottom/Up</i>
	Mask Phase	<i>0</i>	# of Repetitions REST	<i>0</i>
	Mask Pause	<i>0</i>	# of Repetitions ACTIVE	<i>0</i>
	DIFFUSION		SAT	
	Recon All Images	<i>On</i>	Tag Type	<i>None</i>
	CONTRAST		TRICKS	
	Contrast Yes/No	<i>No</i>	Pause On/Off	<i>On</i>
			Auto Subtract	<i>0</i>
			Auto SCIC	<i>Off</i>

Cal Body 36 AA2

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Ax FIESTA ungated	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>Fiesta</i>
	Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>Seq, EDR, Fast, ZIP512, Asset</i>
	Plane	<i>AXIAL</i>	SCAN RANGE	
	Series Description	<i>Ax FIESTA ungated</i>	FOV	<i>32.0</i>
	SCAN TIMING		Slice Thickness	<i>8.0</i>
	Flip Angle	<i>60</i>	Slice Spacing	<i>0.0</i>
	TE	<i>Min Full</i>	ACQ TIMING	
	Number of Echoes	<i>1</i>	Freq	<i>132</i>
	Receiver Bandwidth	<i>83.33</i>	Phase	<i>138</i>
	IMAGE ENHANCE		Freq DIR	<i>R/L</i>
	Filter Choice	<i>A</i>	NEX	<i>1.00</i>
	GATING/TRIGGER		# of Acq. Before Pause	<i>0</i>
	Auto Trigger Type	<i>Off</i>	Phase FOV	<i>1.00</i>
	FMRI		Auto Shim	<i>Auto</i>
	PSD Trigger	<i>Internal</i>	Phase Correction	<i>No</i>
	View Order	<i>Bottom/Up</i>	USER CVS	
	# of Repetitions REST	<i>0</i>	User CV20	<i>1.00</i>
	# of Repetitions ACTIVE	<i>0</i>	MULTI-PHASE	
	SAT		Seperate Series	<i>0</i>
	Tag Type	<i>None</i>	Mask Phase	<i>0</i>
	TRICKS		Mask Pause	<i>0</i>
	Pause On/Off	<i>On</i>	DIFFUSION	
	Auto Subtract	<i>0</i>	Optimized TE	<i>Yes</i>
	Auto SCIC	<i>2</i>	Recon All Images	<i>On</i>
			CONTRAST	
			Contrast Yes/No	<i>No</i>

Ax FIESTA ungated

Protocol: adult_chest_mra chest w & wo

Ax SSFSE Black Blood	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>Spin Echo</i>
	Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>Gat, Seq, EDR, Fast, ZIP512, SS, BSP, Asset</i>
	Plane	<i>OBLIQUE</i>	SCAN RANGE	
	Series Description	<i>Ax SSFSE Black Blood</i>	FOV	<i>32.0</i>
	SCAN TIMING		Slice Thickness	<i>8.0</i>
	TE	<i>40.0</i>	Slice Spacing	<i>0.0</i>
	Number of Echoes	<i>1</i>	ACQ TIMING	
	Blood Suppression TI	<i>737</i>	Freq	<i>212</i>
	Receiver Bandwidth	<i>83.33</i>	Phase	<i>160</i>
	IMAGE ENHANCE		Freq DIR	<i>R/L</i>
	Filter Choice	<i>A</i>	NEX	<i>1.0</i>
	GATING/TRIGGER		# of Acq. Before Pause	<i>2</i>
	Auto Trigger Type	<i>Off</i>	Phase FOV	<i>1.00</i>
	Trigger Type	<i>1</i>	Auto Shim	<i>Auto</i>
	Minimum Trigger Delay	<i>4</i>	Phase Correction	<i>No</i>
	Cardiac Phase	<i>1</i>	USER CVS	
	Cardiac Slices	<i>1</i>	User CV2	<i>240.00</i>
	FMRI		User CV13	<i>1.00</i>
	PSD Trigger	<i>Internal</i>	MULTI-PHASE	
	View Order	<i>Bottom/Up</i>	Seperate Series	<i>0</i>
	# of Repetitions REST	<i>0</i>	Mask Phase	<i>0</i>
	# of Repetitions ACTIVE	<i>0</i>	Mask Pause	<i>0</i>
	SAT		DIFFUSION	
Tag Type	<i>None</i>	Recon All Images	<i>On</i>	
TRICKS		CONTRAST		
# of RR Intervals	<i>3</i>	Contrast Yes/No	<i>No</i>	
Trigger Delay	<i>1728</i>			
Pause On/Off	<i>On</i>			
Auto Subtract	<i>0</i>			
Auto SCIC	<i>2</i>			

Ax SSFSE Black Blood

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Cor FIESTA ungated	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>Fiesta</i>
	Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>Seq, EDR, Fast, ZIP512, Asset</i>
	Plane	<i>CORONAL</i>	SCAN RANGE	
	Series Description	<i>Cor FIESTA ungated</i>	FOV	<i>34.0</i>
	SCAN TIMING		Slice Thickness	<i>8.0</i>
	Flip Angle	<i>60</i>	Slice Spacing	<i>0.0</i>
	TE	<i>Min Full</i>	ACQ TIMING	
	Number of Echoes	<i>1</i>	Freq	<i>132</i>
	Receiver Bandwidth	<i>83.33</i>	Phase	<i>138</i>
	IMAGE ENHANCE		Freq DIR	<i>S/I</i>
	Filter Choice	<i>A</i>	NEX	<i>1.00</i>
	GATING/TRIGGER		# of Acq. Before Pause	<i>0</i>
	Auto Trigger Type	<i>Off</i>	Phase FOV	<i>1.00</i>
	FMRI		Auto Shim	<i>Auto</i>
	PSD Trigger	<i>Internal</i>	Phase Correction	<i>No</i>
	View Order	<i>Bottom/Up</i>	USER CVS	
	# of Repetitions REST	<i>0</i>	User CV20	<i>1.00</i>
	# of Repetitions ACTIVE	<i>0</i>	MULTI-PHASE	
	SAT		Seperate Series	<i>0</i>
	Tag Type	<i>None</i>	Mask Phase	<i>0</i>
	TRICKS		Mask Pause	<i>0</i>
	Pause On/Off	<i>On</i>	DIFFUSION	
	Auto Subtract	<i>0</i>	Optimized TE	<i>Yes</i>
	Auto SCIC	<i>2</i>	Recon All Images	<i>On</i>
			CONTRAST	
			Contrast Yes/No	<i>No</i>

Cor FIESTA ungated

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>3D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>Fiesta</i>
Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>Gat, EDR, Fast, ZIP512, ZIP2, T2P, Asset, Nav</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>3D Heart Nav</i>	FOV	<i>36.0</i>
SCAN TIMING		Slice Thickness	<i>2.0</i>
Flip Angle	<i>60</i>	Location per Slab	<i>72</i>
TE	<i>Min Full</i>	Overlap Locations	<i>14</i>
Number of Echoes	<i>1</i>	ACQ TIMING	
TI	<i>49</i>	Freq	<i>224</i>
Receiver Bandwidth	<i>83.33</i>	Phase	<i>224</i>
IMAGE ENHANCE		Freq DIR	<i>S/I</i>
Filter Choice	<i>A</i>	NEX	<i>1.00</i>
GATING/TRIGGER		Phase FOV	<i>0.80</i>
Auto Trigger Type	<i>Off</i>	Auto Shim	<i>Auto</i>
Trigger Type	<i>1</i>	Phase Correction	<i>No</i>
Minimum Trigger Delay	<i>2</i>	USER CVS	
Cardiac Phase	<i>1</i>	User CV3	<i>1.00</i>
Cardiac Slices	<i>1</i>	User CV23	<i>90.00</i>
FMRI		MULTI-PHASE	
PSD Trigger	<i>Internal</i>	Seperate Series	<i>0</i>
Slice Order	<i>Interleaved</i>	Mask Phase	<i>0</i>
View Order	<i>Bottom/Up</i>	Mask Pause	<i>0</i>
# of Repetitions REST	<i>0</i>	DIFFUSION	
# of Repetitions ACTIVE	<i>0</i>	Recon All Images	<i>On</i>
SAT		TRACKER	
Tag Type	<i>None</i>	Tracker Length	<i>100.0</i>
Fat/Water Saturation	<i>Fat Special</i>	Tracker Thickness	<i>20.0</i>
TRICKS			
# of RR Intervals	<i>4</i>		
Trigger Delay	<i>714</i>		
Pause On/Off	<i>On</i>		
Auto Subtract	<i>0</i>		
Auto SCIC	<i>2</i>		
CONTRAST			
Contrast Yes/No	<i>No</i>		

3D Heart Nav

3D Heart Nav

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>3D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>TRICKS</i>
Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>Fast, ZIP2, Asset</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>TRICKS</i>	FOV	<i>38.0</i>
SCAN TIMING		Slice Thickness	<i>3.0</i>
Flip Angle	<i>20</i>	ACQ TIMING	
TE	<i>Minimum</i>	Freq	<i>260</i>
Number of Echoes	<i>5</i>	Phase	<i>192</i>
Receiver Bandwidth	<i>50.00</i>	Freq DIR	<i>S/I</i>
IMAGE ENHANCE		NEX	<i>1.00</i>
Filter Choice	<i>None</i>	Phase FOV	<i>0.80</i>
GATING/TRIGGER		Auto Shim	<i>Auto</i>
Auto Trigger Type	<i>Off</i>	Phase Correction	<i>No</i>
FMRI		USER CVS	
PSD Trigger	<i>Internal</i>	User CV6	<i>2.00</i>
View Order	<i>Bottom/Up</i>	MULTI-PHASE	
# of Repetitions REST	<i>0</i>	Seperate Series	<i>0</i>
# of Repetitions ACTIVE	<i>0</i>	Mask Phase	<i>0</i>
SAT		Mask Pause	<i>0</i>
Tag Type	<i>None</i>	DIFFUSION	
TRICKS		Recon All Images	<i>On</i>
Output Temporal Phases	<i>11</i>	CONTRAST	
Delay Time after Mask	<i>Minimum</i>	Contrast Yes/No	<i>Yes</i>
Pause On/Off	<i>On</i>		
Auto Subtract	<i>0</i>		
Auto SCIC	<i>2</i>		

TRICKS

TRICKS

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TRICKS	PATIENT POSITION		IMAGING PARAMETERS		TRICKS
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>3D</i>	
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>TRICKS</i>	
	Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>Fast, ZIP2, Asset</i>	
	Plane	<i>OBLIQUE</i>	SCAN RANGE		
	Series Description	<i>TRICKS</i>	FOV	<i>38.0</i>	
	SCAN TIMING		Slice Thickness	<i>3.0</i>	
	Flip Angle	<i>20</i>	ACQ TIMING		
	TE	<i>Minimum</i>	Freq	<i>260</i>	
	Number of Echoes	<i>5</i>	Phase	<i>192</i>	
	Receiver Bandwidth	<i>50.00</i>	Freq DIR	<i>S/I</i>	
	IMAGE ENHANCE		NEX	<i>1.00</i>	
	Filter Choice	<i>None</i>	Phase FOV	<i>0.80</i>	
	GATING/TRIGGER		Auto Shim	<i>Auto</i>	
	Auto Trigger Type	<i>Off</i>	Phase Correction	<i>No</i>	
	FMRI		USER CVS		
	PSD Trigger	<i>Internal</i>	User CV6	<i>2.00</i>	
	View Order	<i>Bottom/Up</i>	MULTI-PHASE		
	# of Repetitions REST	<i>0</i>	Seperate Series	<i>0</i>	
	# of Repetitions ACTIVE	<i>0</i>	Mask Phase	<i>0</i>	
	SAT		Mask Pause	<i>0</i>	
	Tag Type	<i>None</i>	DIFFUSION		
	TRICKS		Recon All Images	<i>On</i>	
	Output Temporal Phases	<i>11</i>	CONTRAST		
	Delay Time after Mask	<i>Minimum</i>	Contrast Yes/No	<i>Yes</i>	
	Pause On/Off	<i>On</i>			
	Auto Subtract	<i>0</i>			
	Auto SCIC	<i>2</i>			