

Protocol: adult\_neck\_CAROTIDS

LOC	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>		LOC
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Gradient Echo	
	Coil Configuration	HNS by GE (PosteriorHead, Face, Chest)	Imaging Options	NPW, Seq, Fast	
	Plane	3-PLANE	<b>SCAN RANGE</b>		
	Series Description	LOC	FOV	34.0	
	<b>SCAN TIMING</b>		Slice Thickness	4.0	
	Number of Echoes	1	Slice Spacing	5.0	
	<b>IMAGE ENHANCE</b>		<b>ACQ TIMING</b>		
	Filter Choice	None	Freq	256	
	<b>GATING/TRIGGER</b>		Phase	128	
	Auto Trigger Type	Off	Freq DIR	Unswap	
	<b>MULTI-PHASE</b>		NEX	2.00	
	Seperate Series	0	Phase FOV	1.00	
	Mask Phase	0	Auto Shim	Off	
	Mask Pause	0	Phase Correction	No	
	<b>DIFFUSION</b>		<b>FMRI</b>		
	Recon All Images	On	PSD Trigger	Internal	
	<b>CONTRAST</b>		Slice Order	Interleaved	
	Contrast Yes/No	No	View Order	Bottom/Up	
		# of Repetitions REST	0		
		# of Repetitions ACTIVE	0		
		<b>SAT</b>			
		Tag Type	None		
		<b>TRICKS</b>			
		Pause On/Off	On		
		Auto Subtract	0		
		Auto SCIC	Off		
		<b>OTHERS</b>			
		Protocol Notes	This protocol is built based on Express coil suite. Please select the appropriate coil which is available in your site and optimizing the parameters accordingly		

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	SPGR
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest)	Imaging Options	EDR, Fast, ZIP2, Calib
Plane	AXIAL	SCAN RANGE	
Series Description	CAL	FOV	48.0
SCAN TIMING		Slice Thickness	15.0
Number of Echoes	1	ACQ TIMING	
Receiver Bandwidth	62.50	Freq DIR	A/P
IMAGE ENHANCE		Auto Shim	Auto
Filter Choice	None	Phase Correction	No
GATING/TRIGGER		FMRI	
Auto Trigger Type	Off	PSD Trigger	Internal
MULTI-PHASE		Slice Order	Interleaved
Seperate Series	0	View Order	Bottom/Up
Mask Phase	0	# of Repetitions REST	0
Mask Pause	0	# of Repetitions ACTIVE	0
DIFFUSION		SAT	
Recon All Images	On	Tag Type	None
CONTRAST		TRICKS	
Contrast Yes/No	No	Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	Off

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3D Ax TOF	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	Vasc TOF SPGR
	Coil Configuration	HNS by GE (PosteriorHead, Face, Chest)	Imaging Options	FC, EDR, ZIP2, ARC
	Plane	AXIAL	<b>SCAN RANGE</b>	
	Series Description	3D Ax TOF	FOV	24.0
	<b>SCAN TIMING</b>		Slice Thickness	2.4
	Flip Angle	20	Location per Slab	40
	TE	Out of Phase	Overlap Locations	16
	Number of Echoes	1	<b>ACQ TIMING</b>	
	TR	Minimum	Freq	288
	Receiver Bandwidth	25.00	Phase	160
	<b>IMAGE ENHANCE</b>		Freq DIR	R/L
	Filter Choice	E	Phase FOV	0.80
	<b>GATING/TRIGGER</b>		Auto Shim	Auto
	Auto Trigger Type	Off	Phase Correction	No
	<b>FMRI</b>		<b>USER CVS</b>	
	PSD Trigger	Internal	User CV5	1.00
	Slice Order	Interleaved	User CV7	100.00
	View Order	Bottom/Up	User CV9	1.00
	# of Repetitions REST	0	<b>MULTI-PHASE</b>	
	# of Repetitions ACTIVE	0	Seperate Series	0
	<b>SAT</b>		Mask Phase	0
	SAT Location	S	Mask Pause	0
	Concat SAT	1	<b>VASCULAR</b>	
	Tag Type	None	# of Collapse Images	Off
	Fat/Water Saturation	Fat	# of Projection Images	0
	<b>DIFFUSION</b>		Ramp Pulse	I->S
	Recon All Images	On	<b>TRICKS</b>	
	<b>CONTRAST</b>		Pause On/Off	On
	Contrast Yes/No	No	Auto Subtract	0
			Auto SCIC	Off

3D Ax TOF

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest)	Imaging Options	Fast, SS
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	---Contrast---	FOV	22.0
<b>SCAN TIMING</b>		Slice Thickness	5.0
TE	Minimum	Slice Spacing	1.0
TR	Minimum	<b>ACQ TIMING</b>	
Receiver Bandwidth	83.33	Freq	128
<b>IMAGE ENHANCE</b>		Phase	128
Filter Choice	None	Freq DIR	A/P
<b>GATING/TRIGGER</b>		NEX	1.0
Auto Trigger Type	Off	# of Acq. Before Pause	0
<b>FMRI</b>		Phase FOV	1.00
PSD Trigger	Internal	Auto Shim	Auto
Slice Order	Interleaved	Phase Correction	No
View Order	Bottom/Up	<b>USER CVS</b>	
# of Repetitions REST	0	User CV2	240.00
# of Repetitions ACTIVE	0	User CV13	1.00
<b>SAT</b>		TR Min	0.0
Tag Type	None	TR Max	0.0
<b>TRICKS</b>		<b>MULTI-PHASE</b>	
Pause On/Off	On	Seperate Series	0
Auto Subtract	0	Mask Phase	0
Auto SCIC	Off	Mask Pause	0
		<b>DIFFUSION</b>	
		Recon All Images	On
		<b>CONTRAST</b>	
		Contrast Yes/No	No

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3D Cor CEMRA FT ASSET	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	Vasc TOF SPGR
	Coil Configuration	HNS by GE (PosteriorHead, Face, Chest)	Imaging Options	Fast, ZIP512, ZIP2, Fluoro
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	3D Cor CEMRA FT ASSET	FOV	34.0
	<b>SCAN TIMING</b>		Slice Thickness	2.0
	Flip Angle	30	Location per Slab	36
	TE	Minimum	Overlap Locations	0
	Number of Echoes	1	<b>ACQ TIMING</b>	
	Receiver Bandwidth	41.67	Freq	256
	<b>IMAGE ENHANCE</b>		Phase	256
	Filter Choice	None	Freq DIR	Unswap
	<b>GATING/TRIGGER</b>		NEX	1.00
	Auto Trigger Type	Off	Phase FOV	1.00
	<b>FMRI</b>		Auto Shim	Auto
	PSD Trigger	Internal	Phase Correction	No
	Slice Order	Interleaved	<b>USER CVS</b>	
	View Order	Bottom/Up	User CV6	2.00
	# of Repetitions REST	0	User CV12	1.00
	# of Repetitions ACTIVE	0	User CV23	100.00
	<b>SAT</b>		<b>MULTI-PHASE</b>	
	Tag Type	None	Seperate Series	0
	<b>DIFFUSION</b>		Trigger Delay without AV	0
	Recon All Images	On	Mask Phase	0
<b>CONTRAST</b>		Mask Pause	0	
Contrast Yes/No	Yes	<b>VASCULAR</b>		
		# of Collapse Images	On	
		# of Projection Images	0	
		<b>TRICKS</b>		
		Pause On/Off	On	
		Auto Subtract	0	
		Auto SCIC	Off	

3D Cor CEMRA FT ASSET

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest)	Imaging Options	Fast, SS
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	---OPTIONS---	FOV	22.0
<b>SCAN TIMING</b>		Slice Thickness	5.0
TE	Minimum	Slice Spacing	1.0
TR	Minimum	<b>ACQ TIMING</b>	
Receiver Bandwidth	83.33	Freq	128
<b>IMAGE ENHANCE</b>		Phase	128
Filter Choice	None	Freq DIR	A/P
<b>GATING/TRIGGER</b>		NEX	1.0
Auto Trigger Type	Off	# of Acq. Before Pause	0
<b>FMRI</b>		Phase FOV	1.00
PSD Trigger	Internal	Auto Shim	Auto
Slice Order	Interleaved	Phase Correction	No
View Order	Bottom/Up	<b>USER CVS</b>	
# of Repetitions REST	0	User CV2	240.00
# of Repetitions ACTIVE	0	User CV13	1.00
<b>SAT</b>		TR Min	0.0
Tag Type	None	TR Max	0.0
<b>TRICKS</b>		<b>MULTI-PHASE</b>	
Pause On/Off	On	Seperate Series	0
Auto Subtract	0	Mask Phase	0
Auto SCIC	Off	Mask Pause	0
		<b>DIFFUSION</b>	
		Recon All Images	On
		<b>CONTRAST</b>	
		Contrast Yes/No	No

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3D Cor Velocity	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	Inhance Velocity
	Coil Configuration	HNS by GE (PosteriorHead, Face, Chest)	Imaging Options	EDR, ZIP512, ZIP2
	Plane	CORONAL	<b>SCAN RANGE</b>	
	Series Description	3D Cor Velocity	FOV	28.0
	<b>SCAN TIMING</b>		Slice Thickness	2.0
	Flip Angle	10	<b>ACQ TIMING</b>	
	TE	Minimum	Freq	320
	Number of Echoes	1	Phase	192
	TR	Minimum	Freq DIR	S/I
	Receiver Bandwidth	31.25	Phase FOV	0.90
	<b>IMAGE ENHANCE</b>		Auto Shim	Auto
	Filter Choice	None	Phase Correction	No
	<b>GATING/TRIGGER</b>		<b>USER CVS</b>	
	Auto Trigger Type	Off	User CV23	80.00
	<b>FMRI</b>		<b>MULTI-PHASE</b>	
	PSD Trigger	Internal	Seperate Series	0
	Slice Order	Interleaved	Mask Phase	0
	View Order	Bottom/Up	Mask Pause	0
	# of Repetitions REST	0	<b>VASCULAR</b>	
	# of Repetitions ACTIVE	0	# of Collapse Images	On
	<b>SAT</b>		# of Projection Images	0
	Tag Type	None	Flow Analysis	All
	<b>DIFFUSION</b>		Additional Flow Images	8
	Recon All Images	On	Flow Recon Type	Complex Diff.
	<b>CONTRAST</b>		Velocity Encoding	50.0
	Contrast Yes/No	No	<b>TRICKS</b>	
		Pause On/Off	On	
		Auto Subtract	0	
		Auto SCIC	Off	

3D Cor Velocity