

Protocol: adult_head_HOUSE SPECIAL

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GEM Head	Imaging Options	NPW, Seq, EDR, TRF, Fast, SS, ARC
Plane	3-PLANE		
Series Description	3-Plane Localizer		
SCAN TIMING		SCAN RANGE	
TE	80.0	FOV	32.0
Number of Echoes	1	Slice Thickness	10.0
TR	600.0	Slice Spacing	5.0
Receiver Bandwidth	83.33		
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	288
		Phase	128
GATING/TRIGGER		Freq DIR	Unswap
Auto Trigger Type	Off	# of Acq. Before Pause	0
		Phase FOV	1.00
FMRI		Auto Shim	Auto
PSD Trigger	Internal	Phase Correction	No
View Order	Bottom/Up	USER CVS	
# of Repetitions REST	0	User CV1	1.00
# of Repetitions ACTIVE	0	MULTI-PHASE	
SAT		Seperate Series	0
Tag Type	None	Mask Phase	0
		Mask Pause	0
TRICKS		DIFFUSION	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	CONTRAST	
Auto SCIC	Off	Contrast Yes/No	No

3-Plane Localizer

3-Plane Localizer

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GEM Head	Imaging Options	EDR, ARC
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAGITTAL T1W	FOV	22.0
SCAN TIMING		Slice Thickness	5.0
TE	Min Full	Slice Spacing	1.0
Number of Echoes	1	ACQ TIMING	
TR	434.0	Freq	320
Receiver Bandwidth	41.67	Phase	224
IMAGE ENHANCE		Freq DIR	S/I
Filter Choice	None	NEX	2.00
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	No
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV4	1.00
# of Repetitions REST	0	TR Min	400.0
# of Repetitions ACTIVE	0	TR Max	600.0
SAT		MULTI-PHASE	
Tag Type	None	Seperate Series	0
TRICKS		Mask Phase	0
Pause On/Off	On	Mask Pause	0
Auto Subtract	0	DIFFUSION	
Auto SCIC	2	Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

SAGITTAL T1W

SAGITTAL T1W

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GEM Head	Imaging Options	EPI, DIFF, Asset
Plane	OBLIQUE	SCAN RANGE	
Series Description	Ax DWI ALL B-1000	FOV	24.0
SCAN TIMING		Slice Thickness	5.0
TE	Minimum	Slice Spacing	1.0
Number of Echoes	1	ACQ TIMING	
TR	9389.0	Freq	160
Number of Shots	1	Phase	192
IMAGE ENHANCE		Freq DIR	R/L
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
FMRI		USER CVS	
PSD Trigger	Internal	User CV0	1.00
View Order	Bottom/Up	User CV5	1.00
# of Repetitions REST	0	User CV7	1.00
# of Repetitions ACTIVE	0	User CV17	1.00
SAT		TR Min	2000.0
Tag Type	None	TR Max	17000.0
TRICKS		MULTI-PHASE	
Pause On/Off	On	Seperate Series	0
Auto Subtract	0	Mask Phase	0
Auto SCIC	2	Mask Pause	0
		DIFFUSION	
		Optimized TE	Yes
		Diffusion Directions	All
		Number of Diffusion Directions	3
		Number of T2 Images	1
		Dual Spin Echo	Off
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

Ax DWI ALL B-1000

Ax DWI ALL B-1000

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Head	Imaging Options	FC, EDR, TRF, Fast, ARC, T2flair
Plane	OBLIQUE		
Series Description	AXIAL T2W FLAIR		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	22.0
TE	140.0	Slice Thickness	5.0
Number of Echoes	1	Slice Spacing	1.0
TR	8800.0		
TI	2546	ACQ TIMING	
Echo Train Length	20	Freq	320
Receiver Bandwidth	31.25	Phase	192
IMAGE ENHANCE		Freq DIR	A/P
Filter Choice	None	Fat Shift DIR	Normal (A)
GATING/TRIGGER		NEX	1.00
Auto Trigger Type	Off	Phase FOV	1.00
FMRI		Auto Shim	Auto
PSD Trigger	Internal	Phase Correction	No
View Order	Bottom/Up	Flow Direction	Slice
# of Repetitions REST	0	Compensation	
# of Repetitions ACTIVE	0	USER CVS	
SAT		User CV18	1.00
Tag Type	None	MULTI-PHASE	
TRICKS		Seperate Series	0
Pause On/Off	On	Mask Phase	0
Auto Subtract	0	Mask Pause	0
Auto SCIC	2	DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

AXIAL T2W FLAIR

AXIAL T2W FLAIR

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Head	Imaging Options	FC, EDR, TRF, Fast, FR
Plane	OBLIQUE	SCAN RANGE	
Series Description	AXIAL T2W	FOV	22.0
SCAN TIMING		Slice Thickness	5.0
Flip Angle	160	Slice Spacing	1.0
TE	105.0	ACQ TIMING	
Number of Echoes	1	Freq	352
TR	5090.0	Phase	256
Echo Train Length	19	Freq DIR	A/P
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (A)
IMAGE ENHANCE		NEX	2.00
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	No
FMRI		Flow Direction Compensation	Slice
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV18	1.00
# of Repetitions REST	0	User CV22	1.00
# of Repetitions ACTIVE	0	TR Min	2500.0
SAT		TR Max	11000.0
SAT Location	I	MULTI-PHASE	
Tag Type	None	Seperate Series	0
TRICKS		Mask Phase	0
Pause On/Off	On	Mask Pause	0
Auto Subtract	0	DIFFUSION	
Auto SCIC	2	Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

AXIAL T2W

AXIAL T2W

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	SWAN
Coil Configuration	GEM Head	Imaging Options	FC, Fast, ZIP512, ZIP2, Asset
Plane	OBLIQUE		
Series Description	3D AX SWAN		
SCAN TIMING		SCAN RANGE	
Flip Angle	25	FOV	24.0
TE	50.0	Slice Thickness	2.6
Number of Echoes	8	Location per Slab	56
TR	Minimum	Overlap Locations	0
Receiver Bandwidth	35.71		
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	320
		Phase	192
GATING/TRIGGER		Freq DIR	A/P
Auto Trigger Type	Off	Phase FOV	0.75
		Auto Shim	Auto
FMRI		Phase Correction	No
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV22	1.00
# of Repetitions REST	0	MULTI-PHASE	
# of Repetitions ACTIVE	0	Seperate Series	0
SAT		Mask Phase	0
Tag Type	None	Mask Pause	0
TRICKS		DIFFUSION	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	CONTRAST	
Auto SCIC	Off	Contrast Yes/No	No

3D AX SWAN

3D AX SWAN

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3D AXIAL TOF COW	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	Vasc TOF SPGR
	Coil Configuration	GEM Head	Imaging Options	FC, EDR, ZIP2, ARC
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	3D AXIAL TOF COW	FOV	24.0
	SCAN TIMING		Slice Thickness	1.2
	Flip Angle	20	Location per Slab	56
	TE	Out of Phase	Overlap Locations	20
	Number of Echoes	1	ACQ TIMING	
	TR	24.0	Freq	300
	Receiver Bandwidth	31.25	Phase	240
	IMAGE ENHANCE		Freq DIR	A/P
	Filter Choice	E	NEX	1.00
	GATING/TRIGGER		Phase FOV	0.65
	Auto Trigger Type	Off	Auto Shim	Auto
	FMRI		Phase Correction	No
	PSD Trigger	Internal	USER CVS	
	View Order	Bottom/Up	User CV5	1.00
	# of Repetitions REST	0	MULTI-PHASE	
	# of Repetitions ACTIVE	0	Seperate Series	0
	SAT		Mask Phase	0
	SAT Location	S	Mask Pause	0
	Tag Type	None	VASCULAR	
	DIFFUSION		# of Collapse Images	On
	Recon All Images	On	# of Projection Images	19
	CONTRAST		Ramp Pulse	I/P/L
	Contrast Yes/No	No	TRICKS	
		Pause On/Off	On	
		Auto Subtract	0	
		Auto SCIC	On	

3D AXIAL TOF COW

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Ax 2D TOF FSPGR	PATIENT POSITION		IMAGING PARAMETERS		Ax 2D TOF FSPGR
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Vasc TOF SPGR	
	Coil Configuration	GEM Head;GEM Neck	Imaging Options	FC, Seq, EDR, Fast	
	Plane	AXIAL	SCAN RANGE		
	Series Description	Ax 2D TOF FSPGR	FOV	22.0	
	SCAN TIMING		Slice Thickness	1.5	
	Flip Angle	80	Slice Spacing	-0.5	
	TE	Minimum	ACQ TIMING		
	Number of Echoes	1	Freq	256	
	TR	Minimum	Phase	160	
	Receiver Bandwidth	31.25	Freq DIR	R/L	
	IMAGE ENHANCE		NEX	1.00	
	Filter Choice	None	# of Acq. Before Pause	0	
	GATING/TRIGGER		Phase FOV	0.75	
	Auto Trigger Type	Off	Auto Shim	Auto	
	FMRI		Phase Correction	No	
	PSD Trigger	Internal	USER CVS		
	View Order	Bottom/Up	User CV4	10.00	
	# of Repetitions REST	0	MULTI-PHASE		
	# of Repetitions ACTIVE	0	Seperate Series	0	
	SAT		Mask Phase	0	
	SAT Location	S	Mask Pause	0	
	Concat SAT	1	VASCULAR		
	Tag Type	None	# of Collapse Images	Off	
	DIFFUSION		# of Projection Images	19	
	Recon All Images	On	TRICKS		
	CONTRAST		Pause On/Off	On	
Contrast Yes/No	No	Auto Subtract	0		
		Auto SCIC	2		

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	PROPELLER
Coil Configuration	GEM Spine	Imaging Options	EDR, TRF, Fast, ARC
Plane	OBLIQUE	SCAN RANGE	
Series Description	*Ax T1 FS PROP FOR DISSECTION*	FOV	22.0
SCAN TIMING		Slice Thickness	4.0
Flip Angle	110	Slice Spacing	1.0
Number of Echoes	1	ACQ TIMING	
TR	534.0	Freq	260
Echo Train Length	5	Freq DIR	A/P
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (A)
IMAGE ENHANCE		NEX	2.00
Filter Choice	None	# of Acq. Before Pause	0
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	No
FMRI		USER CVS	
PSD Trigger	Internal	User CV5	1.00
View Order	Bottom/Up	User CV15	2.00
# of Repetitions REST	0	User CV16	1.00
# of Repetitions ACTIVE	0	User CV19	1.00
SAT		TR Min	500.0
Tag Type	None	TR Max	1000.0
Fat/Water Saturation	Fat	MULTI-PHASE	
TRICKS		Seperate Series	0
Pause On/Off	On	Mask Phase	0
Auto Subtract	0	Mask Pause	0
Auto SCIC	2	DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

Ax T1 FS PROP FOR DISSECTION

Ax T1 FS PROP FOR DISSECTION

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Ax 3D TOF BIFURCATIONS non-contrast	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	Vasc TOF SPGR
	Coil Configuration	GEM Head;GEM Neck	Imaging Options	FC, EDR, ZIP512, ZIP2
	Plane	AXIAL	SCAN RANGE	
	Series Description	*Ax 3D TOF BIFURCATIONS* non-contrast	FOV	22.0
	SCAN TIMING		Slice Thickness	2.4
	Flip Angle	20	Location per Slab	20
	TE	Minimum	Overlap Locations	6
	Number of Echoes	1	ACQ TIMING	
	TR	23.0	Freq	320
	Receiver Bandwidth	20.83	Phase	192
	IMAGE ENHANCE		Freq DIR	R/L
	Filter Choice	None	NEX	0.85
	GATING/TRIGGER		Phase FOV	0.88
	Auto Trigger Type	Off	Auto Shim	Auto
	FMRI		Phase Correction	No
	PSD Trigger	Internal	USER CVS	
	View Order	Bottom/Up	User CV5	1.00
	# of Repetitions REST	0	User CV9	1.00
	# of Repetitions ACTIVE	0	MULTI-PHASE	
	SAT		Seperate Series	0
	SAT Location	S	Mask Phase	0
	Concat SAT	1	Mask Pause	0
	Tag Type	None	VASCULAR	
	Fat/Water Saturation	Fat	# of Collapse Images	Off
	DIFFUSION		# of Projection Images	19
	Recon All Images	On	Ramp Pulse	I->S
CONTRAST		TRICKS		
Contrast Yes/No	No	Pause On/Off	On	
		Auto Subtract	0	
		Auto SCIC	2	

Ax 3D TOF BIFURCATIONS non-contrast

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3D Cor CEMRA FT MASK	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	Vasc TOF SPGR
	Coil Configuration	GEM Head;GEM Neck	Imaging Options	EDR, Fast, ZIP512, ZIP2, Fluoro, MPhVar
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	3D Cor CEMRA FT MASK	FOV	32.0
	SCAN TIMING		Slice Thickness	1.4
	Flip Angle	25	Location per Slab	44
	TE	Minimum	Overlap Locations	0
	Number of Echoes	1	ACQ TIMING	
	Receiver Bandwidth	31.25	Freq	384
	IMAGE ENHANCE		Phase	224
	Filter Choice	None	Freq DIR	S/I
	GATING/TRIGGER		NEX	1.00
	Auto Trigger Type	Off	Phase FOV	0.90
	FMRI		Auto Shim	Auto
	PSD Trigger	Internal	Phase Correction	No
	View Order	Bottom/Up	USER CVS	
	# of Repetitions REST	0	User CV4	1.00
	# of Repetitions ACTIVE	0	User CV5	1.00
	SAT		User CV12	1.00
	Tag Type	None	User CV19	1.00
	DIFFUSION		User CV23	100.00
	Recon All Images	On	MULTI-PHASE	
	CONTRAST		# of Phases	1
Contrast Yes/No	No	Seperate Series	0	
		Trigger Delay without AV	1	
		Mask Phase	1	
		Mask Pause	1	
		VASCULAR		
		# of Collapse Images	On	
		# of Projection Images	0	
		TRICKS		
		Pause On/Off	On	
		Auto Subtract	4099	
		Auto SCIC	Off	
		OTHERS		
		Protocol Notes	Fluoro Trigger Click here to launch a video example	

3D Cor CEMRA FT MASK

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Spine	Imaging Options	NPW, EDR, TRF, Fast, ZIP512
Plane	OBLIQUE		
Series Description	SAG T1W loc		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	32.0
TE	Min Full	Slice Thickness	3.0
Number of Echoes	1	Slice Spacing	1.0
TR	588.0		
Echo Train Length	4	ACQ TIMING	
Receiver Bandwidth	41.67	Freq	256
		Phase	160
		Freq DIR	A/P
		Fat Shift DIR	Normal (P)
		NEX	2.00
		Auto Shim	Auto
		Phase Correction	No
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV16	1.00
		User CV22	1.00
		TR Min	400.0
		TR Max	650.0
GATING/TRIGGER		MULTI-PHASE	
Auto Trigger Type	Off	Seperate Series	0
		Mask Phase	0
		Mask Pause	0
FMRI		DIFFUSION	
PSD Trigger	Internal	Recon All Images	On
View Order	Bottom/Up		
# of Repetitions REST	0		
# of Repetitions ACTIVE	0		
SAT		CONTRAST	
Tag Type	None	Contrast Yes/No	No
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	2		

SAG T1W loc

SAG T1W loc

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	Vasc TOF SPGR
Coil Configuration	GEM Head;GEM Neck	Imaging Options	EDR, Fast, ZIP512, ZIP2, SmartPrep, MPhVar
Plane	OBLIQUE	SCAN RANGE	
Series Description	3D Cor CEMRA Smart Pr MASK	FOV	32.0
SCAN TIMING		Slice Thickness	1.4
Flip Angle	25	Location per Slab	44
TE	Minimum	Overlap Locations	0
Number of Echoes	1	ACQ TIMING	
Receiver Bandwidth	31.25	Freq	384
IMAGE ENHANCE		Phase	224
Filter Choice	None	Freq DIR	S/I
GATING/TRIGGER		NEX	1.00
Auto Trigger Type	Off	Phase FOV	0.90
FMRI		Auto Shim	Auto
PSD Trigger	Internal	Phase Correction	No
View Order	Bottom/Up	USER CVS	
# of Repetitions REST	0	User CV2	40.00
# of Repetitions ACTIVE	0	User CV4	1.00
SAT		User CV5	1.00
Tag Type	None	User CV12	1.00
DIFFUSION		User CV23	100.00
Recon All Images	On	MULTI-PHASE	
TRACKER		# of Phases	1
Tracker Length	20.0	Seperate Series	0
Tracker Thickness	15.0	Trigger Delay without AV	1
OTHERS		Mask Phase	1
Protocol Notes	Fluoro Trigger Click here to launch a video example	Mask Pause	1
		VASCULAR	
		# of Collapse Images	On
		# of Projection Images	0
		TRICKS	
		Pause On/Off	On
		Auto Subtract	4099
		Auto SCIC	Off
		CONTRAST	
		Contrast Yes/No	Yes

3D Cor CEMRA Smart Pr MASK

3D Cor CEMRA Smart Pr MASK