

Protocol: adult_head_Hyposmia Brain

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GEM Head	Imaging Options	Seq, EDR, TRF, Fast, SS, ARC
Plane	3-PLANE		
Series Description	3-Plane Localizer		
SCAN TIMING		SCAN RANGE	
TE	80.0	FOV	24.0
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
		Freq DIR	Unswap
		# of Acq. Before Pause	0
		Phase FOV	1.00
		Auto Shim	Auto
		Phase Correction	No
GATING/TRIGGER		USER CVS	
Auto Trigger Type	Off	User CV1	1.00
FMRI		MULTI-PHASE	
PSD Trigger	Internal	Seperate Series	0
View Order	Bottom/Up	Mask Phase	0
# of Repetitions REST	0	Mask Pause	0
# of Repetitions ACTIVE	0		
SAT		DIFFUSION	
Tag Type	None	Recon All Images	On
TRICKS		CONTRAST	
Pause On/Off	On	Contrast Yes/No	No
Auto Subtract	0		
Auto SCIC	Off		
OTHERS			
Protocol Notes	For loss of sense of smell		

3-Plane Localizer

3-Plane Localizer

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	SPGR
Coil Configuration	GEM Head	Imaging Options	EDR, Fast, ZIP2, Calib
Plane	AXIAL	SCAN RANGE	
Series Description	Cal Head 24	FOV	30.0
SCAN TIMING		Slice Thickness	12.0
Number of Echoes	1	ACQ TIMING	
IMAGE ENHANCE		Freq DIR	R/L
Filter Choice	None	Auto Shim	Auto
GATING/TRIGGER		Phase Correction	No
Auto Trigger Type	Off	FMRI	
MULTI-PHASE		PSD Trigger	Internal
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

Cal Head 24

Cal Head 24

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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	NPW, 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	484.0	Freq	320
Receiver Bandwidth	31.25	Phase	224
IMAGE ENHANCE		Freq DIR	S/I
Filter Choice	None	NEX	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	No
FMRI		USER CVS	
PSD Trigger	Internal	User CV4	1.00
View Order	Bottom/Up	TR Min	400.0
# of Repetitions REST	0	TR Max	600.0
# of Repetitions ACTIVE	0	MULTI-PHASE	
SAT		Seperate Series	0
Tag Type	None	Mask Phase	0
TRICKS		Mask Pause	0
Pause On/Off	On	DIFFUSION	
Auto Subtract	0	Recon All Images	On
Auto SCIC	2	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	9400.0	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		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	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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AXIAL T2W	PATIENT POSITION		IMAGING PARAMETERS		AXIAL T2W
	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	4728.0	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		

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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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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, NPW, EDR, TRF, Fast, ZIP512, FR, ARC
Plane	OBLIQUE		
Series Description	CORONAL OBLIQUE T2W		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	18.0
TE	105.0	Slice Thickness	3.0
Number of Echoes	1	Slice Spacing	0.3
TR	3858.0		
Echo Train Length	21	ACQ TIMING	
Receiver Bandwidth	41.67	Freq	320
		Phase	224
		Freq DIR	S/I
		Fat Shift DIR	Normal (I)
		NEX	3.00
		# of Acq. Before Pause	0
		Auto Shim	Auto
		Phase Correction	No
		Flow Direction Compensation	Freq
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV18	1.00
		TR Min	2500.0
		TR Max	5500.0
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	CONTRAST	
# of Repetitions ACTIVE	0	Contrast Yes/No	Yes
SAT			
Tag Type	None		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	2		

CORONAL OBLIQUE T2W

CORONAL OBLIQUE T2W

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	Cube
Coil Configuration	GEM Head	Imaging Options	EDR, Fast, ZIP512, ZIP2, FR, ARC
Plane	OBLIQUE		
Series Description	3D cor T2 Cube		
SCAN TIMING		SCAN RANGE	
TE	155.0	FOV	20.0
Number of Echoes	1	Slice Thickness	1.4
TR	1700.0	Location per Slab	108
Echo Train Length	130	Overlap Locations	0
Receiver Bandwidth	31.25		
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	U Noise reducti	Freq	256
		Phase	224
GATING/TRIGGER		Freq DIR	S/I
Auto Trigger Type	Off	NEX	2.00
		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 CV22	2.00
# of Repetitions ACTIVE	0		
SAT		MULTI-PHASE	
Tag Type	None	Seperate Series	0
		Mask Phase	0
		Mask Pause	0
TRICKS		DIFFUSION	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0		
Auto SCIC	2	CONTRAST	
		Contrast Yes/No	Yes

3D cor T2 Cube

3D cor T2 Cube

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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	EDR, TRF, Fast, ZIP512, ARC
Plane	OBLIQUE		
Series Description	AXIAL T1W FSE PRE GAD		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	22.0
TE	Min Full	Slice Thickness	5.0
Number of Echoes	1	Slice Spacing	1.0
TR	576.0		
Echo Train Length	3	ACQ TIMING	
Receiver Bandwidth	41.67	Freq	288
		Phase	224
		Freq DIR	A/P
		Fat Shift DIR	Normal (A)
		NEX	2.00
		# of Acq. Before Pause	0
		Phase FOV	0.80
		Auto Shim	Auto
		Phase Correction	Yes
IMAGE ENHANCE		USER CVS	
Filter Choice	None	TR Min	400.0
		TR Max	600.0
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	CONTRAST	
# of Repetitions ACTIVE	0	Contrast Yes/No	No
SAT			
SAT Location	1		
Tag Type	None		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	2		

AXIAL T1W FSE PRE GAD

AXIAL T1W FSE PRE GAD

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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	EDR, TRF, Fast, ZIP512, ARC
Plane	OBLIQUE		
Series Description	AXIAL T1W POST GAD FAT SAT FSE		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	22.0
TE	Min Full	Slice Thickness	5.0
Number of Echoes	1	Slice Spacing	1.0
TR	558.0		
Echo Train Length	3	ACQ TIMING	
Receiver Bandwidth	41.67	Freq	288
		Phase	224
		Freq DIR	A/P
		Fat Shift DIR	Normal (A)
		NEX	2.00
		# of Acq. Before Pause	0
		Phase FOV	0.80
		Auto Shim	Auto
		Phase Correction	Yes
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV19	1.00
		TR Min	400.0
		TR Max	600.0
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	CONTRAST	
# of Repetitions ACTIVE	0	Contrast Yes/No	No
SAT			
SAT Location	I		
Tag Type	None		
Fat/Water Saturation	Fat		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	2		

AXIAL T1W POST GAD FAT SAT FSE

AXIAL T1W POST GAD FAT SAT FSE

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	BRAVO
Coil Configuration	GEM Head	Imaging Options	EDR, Fast, ZIP512, ZIP2, ARC, IrP
Plane	OBLIQUE	SCAN RANGE	
Series Description	AXIAL BRAVO POST GAD	FOV	24.0
SCAN TIMING		Slice Thickness	1.0
Flip Angle	12	Location per Slab	180
Number of Echoes	1	Overlap Locations	0
TI	450	ACQ TIMING	
Receiver Bandwidth	31.25	Freq	240
IMAGE ENHANCE		Phase	240
Filter Choice	None	Freq DIR	A/P
GATING/TRIGGER		NEX	1.00
Auto Trigger Type	Off	Phase FOV	1.00
MULTI-PHASE		Auto Shim	Auto
Seperate Series	0	Phase Correction	No
Trigger Delay without AV	0	FMRI	
Mask Phase	0	PSD Trigger	Internal
Mask Pause	0	View Order	Bottom/Up
DIFFUSION		# of Repetitions REST	0
Recon All Images	On	# of Repetitions ACTIVE	0
CONTRAST		SAT	
Contrast Yes/No	No	Tag Type	None
		TRICKS	
		Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	2
		OTHERS	
		Protocol Notes	this protocol for loss of sense of smell. Anosmia CORONAL Reformats of BRAVO post.

AXIAL BRAVO POST GAD

AXIAL BRAVO POST GAD