Updated 8.9.24

NEURO IMAGING
MIF, LLC.

PROTOCOL:

ANOSMIA

	SIEMENS 3T						SIEMENS 1.5				GE 1.5				FUJI HFO 1.2				
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+		PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	
SAG	T1 FLAIR	24	5	1			T1	24	5	2	T1	24	5	2	T1	23	5	2	
AX	SWI	26	2.5	0			SWI	24	5	2	SWI	26	2.5	0	FFE	24	5	2	
AX	DWI	24	5	1			DWI	240	5	1	DWI	26	5	0	DWI	23	5	1	
AX	T2 FSE	24	5	1			T2 FSE	260	5	2	T2 FSE	22	5	2	T2	23	5	1	
AX	T2 FLAIR FS	24	5	1			T2 FLAIR FS	250	5	2	T2 FLAIR FS	22	5	2	T2 AX FLAIR FS	23	5	1	C+
COR THIN	T2	18	3	1			T2	180	3	1	T2	17	3	1	T2	20	3	1	
SAG THIN	T2	16	3	0.5			T2	180	3	1	T2	17	3	1	T2	18	3	1	
COR THIN	T1	18	3	1			T1	180	3	1	T1	17	3	1	T1	20	3	1	
AX	3D	18	1	0			3D	18	3	1.4	3D	17	1.2	0	3D	20	0.46	0	*MPR COR AND SAG NOSE TO BACK OF PONS
COR THIN	T1 FS	18	3	1	X		T1 FS	180	3	1	T1 FS	17	3	1	T1 FS	18	3	1	C+
SAG THIN	T1 FS	16	3	0.5	X		T1 FS	180	3	1	T1 FS	17	3	1	T1 FS	18	3	1	C+
AX	T1 FLAIR	24	5	1	X		T1	23	5	1	T1	22	5	2	T1	23	5	2	C+

PROTOCOL:

ORBITS

	SIEMENS 3T						SIEMENS 1.5				GE 1.5				FUJI HFO 1.2				
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+		PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	
AX *trauma only	SWI	26	2.5	0			SWI	24	5	2	SWI	26	2.5	0	FFE	24	5	2	
SAG	T1 FLAIR	24	5	1			T1	24	5	1	T1	24	5	2	T1	23	5	2	
AX	DWI	24	5	1			DWI	240	5	1	DWI	26	5	0	DWI	23	5	1	
AX	T2 FLAIR FS	24	5	1			T2 FLAIR FS	24	5	1	T2 FLAIR FS	22	5	2	T2 FLAIR FS	23	5	1	C+
AX	T2	24	5	1			T2	230	5	2	T2	22	5	2	T2 AX	23	5	1	
AX	T2 FS	24	5	1			T2 FS	24	5	1	T2 FS	24	5	1	T2 FS	24	5	1	
COR THIN	T2 FS	18	3	1			T2 FS	18	3	1	T2 FS	16	3	1	T2 FS	18	2.5	0.5	
AX THIN	T2 FS	18	3	1			T2 FS	18	3	1	T2 FS	16	3	1	T2 FS	18	2.5	0.5	
AX THIN	T1	18	3	1			T1	18	3	1	T1	16	3	1	T1	18	2.5	0.5	
AX THIN	T1 FS	18	3	1	X		T1 FS	18	3	1	T1 FS	16	3	1	T1 FS	18	2.5	0.5	C+
COR THIN	T1 FS	18	3	1	X		T1 FS	18	3	1	T1 FS	16	3	1	T1 FS	18	2.5	0.5	C+
AX	T1 FLAIR	24	5	1	X		T1	23	5	1	T1	22	5	2	T1	23	5	2	C+

PROTOCOL:

TRIGEMINAL

	SIEMENS 3T						SIEMENS 1.5				GE 1.5				FUJI HFO 1.2				
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+		PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	
AX *trauma only	SWI	26	2.5	0			SWI	24	5	2	SWI	26	2.5	0	FFE	24	5	2	
AX	DWI	24	5	1			DWI	24	5	1	DWI	26	5	0	DWI	23	5	1	
SAG	T1 FLAIR	24	5	1			T1	24	5	1	T1	24	5	2	T1	23	5	2	
AX	3D	18	1.4	0			3D	16	1.4	0	3D	18	1.2	0	3D	16	1.4	0	*MPR COR AND SAG
AX	T2	24	5	1			T2	26	5	2	T2	22	5	2	T2	23	5	1	
AX	T2 FLAIR FS	24	5	1			T2 FLAIR FS	25	5	2	T2 FLAIR FS	22	5	2	T2 FLAIR FS	23	5	1	C+
COR	T2 FLAIR FS	24	5	1			T2 FLAIR FS	19	5	1	T2 FLAIR FS	22	5	2	T2 FLAIR FS	19	5	1	
AX THIN	T1	18	3	1			T1	20	3	1	T1	16	2.5	0.5	T1	30	3	1	
AX THIN	T1 FS	18	3	1	X		T1 FS	20	3	1	T1 FS	16	2.5	0.5	T1 FS	20	3	1	C+
COR THIN	T1 FS	18	3	1	X		T1 FS	18	3	1	Tl FS	16	3	1	T1 FS	20	3	1	C+
AX	3D	24	0.9	0	X		3D	24	1.6	0	3D	28	1.2	0	3D	23	1.1	0	C+
AX	T1	24	5	1	x		T1	24	5	1	T1	24	5	1					

NOTE: Label 3D Axial post brain sequence "3D AX Post"

PROTOCOL:

IAC

	SIEMENS 3T						SIEMENS 1.5				GE 1.5				FUJI HFO 1.2				
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+		PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	
AX *trauma only	SWI	26	2.5	0			SWI	24	5	2	SWI	26	2.5	0	FFE	24	5	2	
AX	DWI	24	5	1			DWI	24	5	1	DWI	26	5	0	DWI	23	5	1	
SAG	T1 FLAIR	24	5	1			T1	24	5	2	T1	24	5	2	T1	23	5	2	
AX	3D	18	1	0			3D	16	1.6	0	3D	18	1.2	0	3D	12	0.46	0	*MPR COR BILAT, RIGHT AND LEFT

AX	T2	24	5	1		T2	25	5	2	T2	22	5	2	T2	23	5	1	
AX THIN	T1	18	3	0.2		T1	16	3	0.2	T1	17	3	0.2	T1	12	3	0.3	
AX THIN	T1	18	3	0.2	X	T1	16	3	0.2	T1	17	3	0.2	T1	12	3	0.3	C+
AX	T2 FLAIR FS	24	5	1	X	T2 FLAIR FS	24	5	2	T2 FLAIR FS	22	5	2	T2 FLAIR FS	23	5	1	C+
COR THIN	T1	18	3	0.2	X	T1	15	3	0.2	T1	17	3	0.2	T1	12	3	0.3	C+
AX	T1 FLAIR	24	5	1	X	T1	23	5	1	T1	22	5	2	T1	23	5	2	C+

PROTOCOL: CHOLESTEATOMA -3T only

IAC **SIEMENS 3.0**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	
AX *trauma only	SWI	26	2.5	0		
AX	DWI	24	5	1		
AX	DWI BLADE					through IAC
SAG	T1 FLAIR	24	5	1		
AX	3D	18	1	0		
AX	BLADE	24	5	1		
AX THIN	T1	18	3	0.2		
AX THIN	T1	18	3	0.2	X	
AX	T2 FLAIR FS	24	5	1	X	
COR THIN	T1	18	3	0.2	X	
AX	T1 FLAIR	24	5	1	X	

PROTOCOL:

PITUITARY **SIEMENS 3T** **SIEMENS 1.5** **GE 1.5** **FUJI HFO 1.2**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	
AX	SWI	26	2.5	0		SWI	24	5	2	SWI	26	2.5	0	FFE	24	5	2	
AX	DWI	24	5	1		DWI	24	5	1	DWI	24	5	1	DWI	23	5	1	
SAG	T1 FLAIR	24	5	1		T1	24	5	2	TI	24	5	2	T1	23	5	2	
AX	T2	24	5	1		T2	24	5	2	T2	24	5	2	T2	23	5	1	
AX	T2 FLAIR FS	24	5	1		T2 FLAIR FS	24	5	2	T2 FLAIR FS	22	5	2	T2 FLAIR FS	23	5	1	
COR THINS	T2 FRFSE	15	3	0.3		T2	18	3	0.3	T2	16	3	0.3	T2	20	3	0	
COR DYNAMIC	T1	18	2.5	0.3	X	T1	15	3	0.3	T1	16	3	0.3	T1	15	3	0.3	C+
COR	T1	15	3	0.3	X	T1	18	3	0.3	T1	16	3	0.3	T1	15	3	0.5	C+
SAG	T1	15	3	0.3	X	T1	13	3	0.3	T1	16	3	0.3	T1	15	3	0.3	C+
AX	T1 FLAIR	24	5	1	X	T1	22	5	1	T1	22	5	2	T1	23	5	2	C+
AX	T1 3D	24	0.9	0	X	T1 3D	24	1.6	0	T1 3D	28	1.2	0	T1 3D	23	1.1	0	C+
AX	T1 SE	24	5	1	x	T1 SE	24	5	1	T1 SE	24	5	1					

PROTOCOL:

PINEAL **SIEMENS 3T** **SIEMENS 1.5** **GE 1.5** **FUJI HFO 1.2**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	
SAG	T1	24	5	1		T1	24	5	2	T1	24	5	2	T1	23	5	2	
AX	SWI	26	2.5	0		SWI	24	5	2	SWI	26	2.5	0	FFE	23	5	1	
AX	DWI	24	5	1		DWI	24	5	1	DWI	24	5	1	DWI	23	5	1	
AX	T2	24	5	1		T2	26	5	2	T2	26	5	2	T2	26	5	2	
AX	T2 FLAIR FS	24	5	1		T2 FLAIR FS	25	5	2	T2	25	5	2	T2 FLAIR FS	23	5	1	
AX	T1 FLAIR	24	5	1		T1	24	5	2	T1	24	5	2	T1	23	5	1	
AX THIN	T1	20	3	1		T1	20	3	0.3	T1	20	3	0	T1	20	2.5	0.5	
SAG THIN	T2	18	3	1		T2	20	3	0.3	T2	16	3	1	T2	20	2.5	0.5	
AX THIN	T1	20	3	1	X	T1	20	3	0.3	T1	20	3	0	T1	20	2.5	0.5	C+
SAG THIN	T1	20	3	1		T1	20	3	0.3	T1	20	3	0	T1	20	2.5	0.5	C+
AX	T1 FLAIR	24	5	1	X	T1	23	5	1	T1	22	5	2	T1	23	5	2	C+

PROTOCOL: ROUTINE

BRAIN W.O **SIEMENS 3T** **SIEMENS 1.5** **GE 1.5** **FUJI HFO 1.2**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T1 FLAIR	24	5	1		T1	24	5	2	T1	24	5	2	T1	23	5	2
AX	SWI	26	2.5	0		FFE	24	5	2	SWI	26	2.5	0	T2 AX FFE	23	5	1
AX	T2	24	5	1		T2	24	5	2	T2	25	5	2	T2	23	5	1
AX	DWI	24	5	1		DWI	24	5	1	DWI	24	5	1	DWI	23	5	1
AX	T2 FLAIR FS	24	5	1		T2 FLAIR FS	25	5	2	T2 FLAIR FS	25	5	2	T2 FLAIR FS	23	5	1

COR	T2 FLAIR FS	24	5	1		T2 FLAIR FS	20	5	2	T2 FLAIR FS	25	5	2	T2 FLAIR FS	23	5	1

MTA SCORE IF REQUESTED

PROTOCOL:

SEIZURE	SIEMENS 3T					SIEMENS 1.5				GE 1.5				FUJI HFO 1.2			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T1 FLAIR	24	5	1		T1	24	5	2	T1	24	5	2	T1	23	5	2
AX	SWI	26	2.5	0		SWI	24	5	2	SWI	26	2.5	0	FFE	23	5	1
AX	T2	24	5	1		T2	24	5	2	T2	24	5	2	T2	23	5	1
AX	DWI	24	5	1		DWI	24	5	1	DWI	24	5	1	DWI	23	5	1
AX	T2 FLAIR FS	24	5	1		T2 FLAIR FS	24	5	2	T2 FLAIR FS	24	5	2	T2 FLAIR FS	23	5	1
COR	T2 FLAIR FS	24	5	1		T2 FLAIR FS	20	5	2	T2 FLAIR FS	22	5	1	T2 FLAIR FS	23	5	1
COR THIN	T2	22	3	0.5		T2	18	3	1	T2	18	3	1	T2	20	3	0
COR IR*	T1 FLAIR	22	3	0.5		T1 FLAIR*	19	4	1	T1 IR *	22	4	1	T1 IR *	22	4	1

*RUN ON PEDIATRICS 18 YRS OR YOUNGER

PROTOCOL: PT MOVING

BRAIN W.O — **SIEMENS 3.0**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
SAG	T1	24	5	1	
AX	SWI	26	2.5	0	
AX	T2	24	5	1	
AX	DWI	24	5	1	
AX	T2 FLAIR FS	24	5	1	
COR	T2 FLAIR FS	24	5	1	

PROTOCOL: ROUTINE

BRAIN W.WO

	SIEMENS 3T					SIEMENS 1.5				GE 1.5				FUJI HFO 1.2				
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	
AX	SWI	26	2.5	0		SWI	24	5	2	SWI	26	2.5	0	FFE	23	5	1	
AX	DWI	24	5	1		DWI	24	5	2	DWI	24	5	1	DWI	23	5	1	
SAG	T1 FLAIR	24	5	1		T1	24	5	2	T1	24	5	2	T1	23	5	2	
AX	T2	24	5	1		T2	24	5	2	T2	24	5	2	T2	23	5	1	
AX	T1 FLAIR	24	5	1		T1	24	5	2	TI	24	5	2	T1	23	5	2	
AX	T2 FLAIR FS	24	5	1	X	T2 FLAIR FS	24	5	2	T2 FLAIR FS	24	5	2	T2 FLAIR FS	23	5	1	C+
COR	T2 FLAIR FS	24	5	1	X	T2 FLAIR FS	20	5	1	T2 FLAIR FS	20	5	1	T2 FLAIR FS	23	5	1	C+
AX	T1 3D	24	0.9	0	X	T1 3D	24	1.6	0	T1 3D	28	1.2	0	T1 3D	23	1.1	0	C+
AX	T1 SE	24	5	1	X	T1 SE	24	5	2	T1 SE	24	5	2	T1 SE	24	5	2	C+
OPT SAG	T1	24	5	1	X	T1	24	5	2									
OPT COR	T1	24	5	1	X	T1	23	5	2									

NOTE: Label 3D Axial post brain sequence "3D AX Post"

PROTOCOL: UVA

BRAIN W.WO

	SIEMENS 3T					SIEMENS 1.5				GE 1.5			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
AX	SWI	26	2.5	0		FFE	24	5	2	SWI	26	2.5	0
AX	DWI	24	5	1		DWI	24	5	1	DWI	24	5	1
SAG	T1 FLAIR	24	5	1		T1	24	5	1	T1	24	5	1
AX	T2	24	5	0.5		T2	24	5	0.5	T2	24	5	0.5
AX	T1	24	3	0		T1	24	3	0	T1	20	3	0
COR	T1	24	3	0		T1	24	3	0	T1	20	3	0
AX	T2 FLAIR FS	24	5	1		T2 FLAIR FS	24	5	2	T2 FLAIR FS	20	5	0.5
COR	T2 FLAIR FS	24	5	1		T2 FLAIR FS	20	5	1	T2 FLAIR FS	20	5	1
AX	T1	24	3	0	X	T1	24	3	0	T1	20	3	0
COR	T1	24	3	0	X	T1	24	3	0	T1	20	3	0
SAG	T1	24	3	0	X								

PROTOCOL:

BRAIN LAB

	SIEMENS 3T					SIEMENS 1.5				GE 1.5			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
AX FSPGR	T1 3D	26	0.9	0		T1 3D	25	1.6	0	T1 3D	28	1.2	0
AX FSPGR	T1 3D	26	0.9	0	X	T1 3D	25	1.6	0	T1 3D	28	1.2	0

NOTE: Label 3D Axial post brain sequence "3D AX Post"

*IF A FULL BRAIN W/O HAS NOT BEEN COMPLETED WITHIN THE LAST 30 DAYS, PLEASE PERFORM A BRAIN W/O IN ADDITION TO THE 3D PRE/POST.

T1 AND T2

BRAIN LAB

	SIEMENS 3T					SIEMENS 1.5				GE 1.5			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG SPACE	T2	26	1	0		T2	25	1	0	T2	25	1	0
AX FSPGR	T1 3D	26	0.9	0		T1 3D	25	1.6	0	T1 3D	28	1.2	0
AX FSPGR	T1 3D	26	0.9	0	X	T1 3D	25	1.6	0	T1 3D	28	1.2	0

NOTE: Label 3D Axial post brain sequence "3D AX Post"

*IF A FULL BRAIN W/O HAS NOT BEEN COMPLETED WITHIN THE LAST 30 DAYS, PLEASE PERFORM A BRAIN W/O IN ADDITION TO THE 3D PRE/POST.

ORBIT/SKULL BASE/NASOPHARYNX

BRAIN LAB — **SIEMENS 3T** — **SIEMENS 1.5**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T1 FLAIR	24	5	2		T1	24	5	2
AX FSPGR	T1	26	1	0		T1 3D FFE	25	1.6	0
AX FSPGR	T1 3D FS	26	1	0		T1 3D FS	25	1.6	0

***IF A FULL BRAIN W/O HAS NOT BEEN COMPLETED WITHIN THE LAST 30 DAYS, PLEASE PERFORM A BRAIN W/O IN ADDITION**

M.S.

BRAIN W.WO	**SIEMENS 3T**					**SIEMENS 1.5**					**GE 1.5**					**FUJI HFO 1.2**				
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP		PULSE SEQ	FOV	SLICE THK	GAP		PULSE SEQ	FOV	SLICE THK	GAP	
SAG	T1 FLAIR	24	5	1		T1	24	5	2		T1	24	5	2		T1	23	5	2	
AX *trauma only	SWI	26	2.5	0		SWI	24	5	2		SWI	24	5	2		FFE	24	5	2	
AX	DWI	24	5	1		DWI	24	5	1		DWI	24	5	1		DWI	23	5	1	
AX FRFSE	T2	24	5	1		T2	24	5	1		T2	22	5	2		T2	23	5	1	
AX	T1 FLAIR	24	5	1		T1	24	5	1		T1	22	5	2		T1	23	5	2	
SAG	T2 FLAIR FS	24	1.2	0	X	T2 FLAIR FS	24	1.2	0	X	T2 FLAIR FS	24	1.2	0	X	T2 FLAIR FS	24	1.2	0	X
AX (IF MOTION)	T2 FLAIR FS				X	T2 FLAIR FS	24	5	1		T2 FLAIR FS	28	1.2	0		T2 FLAIR FS	23	5	1	C+
SAG (IF MOTION)	T2 FLAIR FS				X	T2 FLAIR FS	24	5	2		T2 FLAIR FS	22	5	2		T2 FLAIR FS	23	5	1	C+
AX	T1 3D	24	0.9	0	X	T1 3D	24	1.6	0		T1 3D	28	1.2	0		T1 AX 3D	23	1.1	0	C+
AX	T1 SE	24	5	1	X	T1 SE	24	5	2		T1 SE	24	5	2		T1 SE	24	5	2	C+

NOTE: Label 3D Axial post brain sequence "3D AX Post"

PROTOCOL: M.S.WITH ORBITS

BRAIN W.WO	**SIEMENS 3T**					**SIEMENS 1.5**					**GE 1.5**					**FUJI HFO 1.2**				
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP		PULSE SEQ	FOV	SLICE THK	GAP		PULSE SEQ	FOV	SLICE THK	GAP	
SAG	T1 FLAIR	24	5	1		T1	24	5	2		T1	24	5	2		T1	23	5	2	
AX *trauma only	SWI	26	2.5	0		SWI	24	5	2		SWI	24	5	2		FFE	24	5	2	
AX	DWI	24	5	1		DWI	24	5	1		DWI	24	5	1		DWI	23	5	1	
AX FRFSE	T2	24	5	1		T2	24	5	1		T2	22	5	2		T2	23	5	1	
AX	T1 FLAIR	24	5	1		T1	24	5	1		T1	22	5	2		T1	23	5	2	
COR THIN	T2 FS	18	3	1		T2 FS	18	3	1		T2 FS	16	3	1		T2 FS	18	2.5	0.5	
AX THIN	T2 FS	18	3	1		T2 FS	18	3	1		T2 FS	16	3	1		T2 FS	18	2.5	0.5	
AX THIN	T1	18	3	1		T1	18	3	1		T1	16	3	1		T1	18	2.5	0.5	
SAG	T2 FLAIR FS	24	1.2	0	X	T2 FLAIR FS	24	1.2	0	X	T2 FLAIR FS	24	1.2	0	X	T2 FLAIR FS	24	1.2	0	X
AX (IF MOTION)	T2 FLAIR FS				X	T2 FLAIR FS	24	5	1		T2 FLAIR FS	28	1.2	0		T2 FLAIR FS	23	5	1	C+
SAG (IF MOTION)	T2 FLAIR FS				X	T2 FLAIR FS	24	5	2		T2 FLAIR FS	22	5	2		T2 FLAIR FS	23	5	1	C+
AX	T1 3D	24	0.9	0	X	T1 3D	24	1.6	0		T1 3D	28	1.2	0		T1 3D	23	1.1	0	C+
AX THIN	T1 FS	18	3	1	X	T1 FS	18	3	1		T1 FS	16	3	1		T1 FS	18	2.5	0.5	C+
COR THIN	T1 FS	18	3	1	X	T1 FS	18	3	1		T1 FS	16	3	1		T1 FS	18	2.5	0.5	C+

NOTE: Label 3D Axial post brain sequence "3D AX Post"

	SIEMENS 3T					**SIEMENS 1.5**					**GE 1.5**					**FUJI HFO 1.2**			
PROTOCOL:																			
BRAIN CSF FLOW																			
SAG	CSF_PCA					SAG	CSF_PCA				SAG	CSF_PCA				SAG	CSF_PCA		

*ONLY RUN IF REQUESTED ON PHYSICIANS ORDER

PROTOCOL: All Sites **WO MRA Recon: Yes and No View (entire COW)**

MRA BRAIN

SIEMENS 3.0

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
SAG LOC	PC	35	60	0	
AX 3D	TOF	20	1.6		

PROTOCOL: MINS ONLY **W.WO MRA Recon: Yes and No View (entire COW)**

MRA BRAIN

SIEMENS 3.0

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
SAG LOC	PC	35	60	0	
AX 3D	TOF	20	1.6		
TRICKS	SAG	26	2.2	0	X

PROTOCOL: All Sites **WO MRV Recon: Yes and No View**

MRV BRAIN

SIEMENS 3.0

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
SAG 3D	INHANCE	24	1.2	0	

PROTOCOL: All Sites **W/ MRV Recon: Yes and No View**

MRV BRAIN

SIEMENS 3.0

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
SAG 3D	TOF,SPGR	30	1.4	0	X
AX	BRAVO	24	0.9	0	X

PROTOCOL: All Sites **W/WO - F/U Chronic Thrombus (Radiologist Preferred) MRV Recon: Yes and No View**

MRV BRAIN

SIEMENS 3.0

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
SAG	T1 FLAIR	24	5	1	
AX	SWI	26	2.5	0	
AX PROP	T2	24	5	1	
SAG 3D	INHANCE	24	1.2	0	
SAG 3D	TOF,SPGR	30	1.4	0	X
AX	MPRAGE	24	0.9	0	X
AX	SWI	26	2.5	0	

PROTOCOL: Siemens 1.5T and 3T, MINS **Carotid Recon: Full View, Rt and Lt Carotid, Bifurcations (turn), Axial MPR entire Carotids**

MRA CAROTID W/O

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
3D BIFURCATIONS					
COR 3D MRA CAROTIDS					
OPTIONAL 2D TOF					

PROTOCOL: All Sites Carotid **Recon: Full View, Rt and Lt Carotid, Bifurcations (turn), Axial MPR entire Carotids**

CE CAROTID ACR W/WO

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+

3D BIFURCATIONS AX					
*IF FOR DISSECTION					
T1/AX/FS/PSAT					
3D CAROTID PRE					
2D BOLUSTRAK					C+
3D CAROTID					C+

PROTOCOL: All Sites

CE MRA RENAL ACR **W/ Recon: Yes and No View of bilateral renal arteries**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
AXIAL 2D					
3D COR PRE					
2D BOLUS TRAK					C+
3D RENAL					C+

PROTOCOL: All Sites Recon: Yes and No View of entire thoracic aorta and Axial MPR

CE MRA THORACIC ANEURYSM **W/WO**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
AXIAL	T1				
BTFE BREATH HOLD					
3D CANDY CANE PRE					
2D BOLUS TRAK					C+
3D CANDY CANE					C+

PROTOCOL: MINS ONLY

CE PELVIC VENOGRAM **W/WO**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
AX	BTFE				
COR	BTFE				
AX	THRIVE				
PELVIC 3D PRE					
2D BLOUS TRAK					
PELVIC 3D ART					
AX	THRIVE				C+
VENOUS 1ST RUN	3D				C+
VENOUS 2ND RUN	3D				C+
VENOUS 3RD RUN	3D				C+

PROTOCOL: N/A IN OUTPATIENT **W/**

CE RUNOFF					

PROTOCOL: N/A IN OUTPATIENT **W/O**

NON CON RUNOFF					
	TRANCE				

SIEMENS 1.5

PULSE SEQ	FOV	SLICE THK	GAP
T1	24	5	2
TOF	21	1.2	0

GE 1.5

PULSE SEQ	FOV
T1	24
TOF	20

SIEMENS 1.5

PULSE SEQ	FOV	SLICE THK	GAP
3D PCA	21	2	0

GE 1.5

PULSE SEQ	FOV
INHANCE	24

SIEMENS 1.5

PULSE SEQ	FOV	SLICE THK	GAP
SAG 3D	25	1.1	0
T1 3D FFE	24	1.6	0

GE 1.5

PULSE SEQ	FOV
TOF	30
T1 3D FSPGR	26

SIEMENS 1.5

PULSE SEQ	FOV	SLICE THK	GAP
T1	24	5	2
FFE	24	5	2
T2	24	5	2
3D PCA	21	2	0
SAG 3D	25	1.1	0
T1 3D FFE	24	1.6	0
FFE	24	5	2

GE 1.5

PULSE SEQ	FOV
T1	24
SWI	26
T2	24
INHANCE	24
TOF	30
T1 3D FSPGR	26
SWI	26

Carotid Recon: Full View, Rt and Lt Carotid, Bifurcations (turn), Axial MPR entire Carotids

PROTOCOL: MINS ONLY **Recon: Yes and No View of bilateral renal arteries**

NON CON MRA RENAL ACR **w/ o**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
AX	BTFE				
COR	BTFE				
BTFE RENAL					C+
3D PCA DGS					C+

PROTOCOL:

NON CON MRA CHEST

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+

FUJI 1.2

SLICE THK	GAP		PULSE SEQ	FOV	SLICE THK	GAP
5	2		T1 SAG	23	5	2
1.2	0		TOF AX 3D	18	0.45	0

FUJI 1.2

SLICE THK	GAP		PULSE SEQ	FOV	SLICE THK	GAP
1.4	0					

FUJI 1.2

SLICE THK	GAP		PULSE SEQ	FOV	SLICE THK	GAP
1.5	0					
2	0					

FUJI 1.2

SLICE THK	GAP		PULSE SEQ	FOV	SLICE THK	GAP	
5	2		T1 SAG	23	5	2	
2.5	0		T2 AX FFE	23	5	1	
5	2		T2 AX	23	5	1	
1.4	0		3D PCA	21	2	0	
1.5	0		SAG 3D	25	1.1	0	C+
2	0		T1 AX 3D	23	1.1	0	C+
2.5	0		T2 AX FFE	23	5	1	

**Run T1 Coronal for scoliotic patients on all spines

PROTOCOL: ROUTINE

CERVICAL	SIEMENS 3.0					SIEMENS 1.5				GE 1.5				FUJI 1.2			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T2 FRFSE	20	3	1		T2 TSE	19	3	1	T2 FRFSE	21	3	1	T2 TSE	16	3	1
SAG	T1 FLAIR	20	3	1		T1 TSE	19	3	1	T1 FSE	21	3	1	T2 SPIR	16	3	1
AX	MEDIC	18	3	1		T2 FFE	15	3	1	2D MERGE	17	3	1	ADAGE	16	3	1
AX	T2 FRFSE	18	3	1		T2 TSE	15	3	1	T2 FRFSE	17	3	1	T2 TSE	15	3	1
SAG	T2 STIR	20	3	1		T2 SPIR	19	3	1	T2 FSE FS	21	3	1	T1 TSE	15	3	1

*** CSF may be requested on prescription if Chiari Malformation is suspected.

PROTOCOL: M.S.- myelopathy FOV: Begin at C1 FOR AXIALS

CERVICAL	SIEMENS 3.0					SIEMENS 1.5				GE 1.5				FUJI 1.2			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T2 FRFSE	20	3	1		T2 TSE	19	3	1	T2 FRFSE	21	3	1	T2 TSE	16	3	1
SAG	T2 STIR	20	3	1		T2 FSAT	19	3	1	T2 FSE FS	21	3	1	T2 FS	16	3	1
SAG	PD FRFSE	20	3	1		PD TSE	19	3	1	PD FRFSE	21	3	1	PD TSE	16	3	1
SAG	T1 FLAIR	20	1	1		T1 TSE	19	3	1	T1 FSE	21	3	1	T1 TSE	16	3	1
AX	2D MEDIC	18	3	1	X	T2 FFE	16	3	1	2D MERGE	17	3	1	T2 FFE ADAGE	15	3	1
AX	T2	18	3	1	X	T2 TSE	16	3	1	T2 FRFSE	17	3	1	T2 TSE	15	3	1
SAG	T1 FLAIR	20	3	1	X	T1 TSE	19	3	1	T1 FSE C+	21	3	1	T1 TSE	16	3	1
AX	T1	18	3	1	X	T1 TSE	16	3	1	T1 FSE C+	17	3	1	T1 TSE	15	3	1

PROTOCOL: Surgical FOV: Begin at C2

CERVICAL	SIEMENS 3.0					SIEMENS 1.5				GE 1.5				FUJI 1.2			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T2 FRFSE	20	3	1		T2 TSE	19	3	1	T2 FRFSE	21	3	1	T2 TSE	16	3	1
SAG	T2 STIR	20	3	1		T2 FSAT	19	3	1	T2 FSE FS	21	3	1	T2 FS	16	3	1
SAG	T1 FLAIR	20	1	1		T1 TSE	19	3	1	T1 FSE	21	3	1	T1 TSE	16	3	1
AX	2D MEDIC	18	3	1		2D MEDIC	16	3	1	2D MERGE	17	3	1	T2 FFE ADAGE	15	3	1
AX	T2	18	3	1		T2 TSE	16	3	1	T2 FRFSE	17	3	1	T2 TSE	15	3	1
SAG	T1 FLAIR	20	3	1	X	T1 TSE	19	3	1	T1 FSE C+	21	3	1	T1 TSE	16	3	1
AX	T1	18	3	1	X	T1 TSE	16	3	1	T1 FSE C+	17	3	1	T1 TSE	15	3	1

PROTOCOL: METS- osteomeylitis

CERVICAL	SIEMENS 3.0					SIEMENS 1.5				GE 1.5				FUJI 1.2			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T2 FRFSE	20	3	1		T2 TSE	19	3	1	T2 FRFSE	21	3	1	T2 TSE	16	3	1
SAG	T1 FLAIR	20	3	1		T1 TSE	19	3	1	T1 FSE	21	3	1	T2 FS	16	3	1
SAG	T2 STIR	20	3	1		T2 FSAT	19	3	1	T2 FRFSE FS	21	3	1	T1 TSE	16	3	1
AX	2D MEDIC	18	3	1		2D MEDIC	16	3	1	2D MERGE	17	3	1	T2 FFE ADAGE	15	3	1
AX	T2 FRFSE	18	3	1		T2 TSE	16	3	1	T2 FRFSE	17	3	1	T2 TSE	15	3	1
SAG FS	T1 FLAIR	20	3	1	X	T1 TSE C+	19	3	1	T1 FSE FS C+	21	3	1	T1 FS	16	3	1
AX FS	T1	18	3	1	X	T1 TSE FS C+	16	3	1	T1 FSE FS C+	17	3	1	T1 FS	15	3	1

PROTOCOL: ROUTINE

THORACIC	SIEMENS 3.0	SIEMENS 1.5	GE 1.5	FUJI 1.2

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	
SAG COUNTER	T1 FLAIR	48	3	3		T1 TSE	45	6	1	T1 FSE	48	4	1	T1 TSE	45	6	0.6	
SAG	T1 FLAIR	30	4	1		T1 TSE	30	4	1	T1 FSE	32	4	1	T1 TSE	32	4	1	
SAG	T2 FRFSE	30	4	1		T2 TSE	30	4	1	TS FRFSE	32	4	1	T2 TSE	32	4	1	
SAG	T2 STIR	30	4	1		T2 TSE FSAT	30	4	1	T2 FSE FS	32	4	1	T2 FS	32	4	1	
AX	T2 FRFSE	20	4	1		T2 TSE	21	4	1	T2 FRSFE	30	4	1	T2 TSE	20	4	1	
AX	MEDIC	20	4	1		T2 FFE	21	3	1	T/2D MERGE	16	3	1	PBSG AX	20	4	1	*BOTTOM 6 vertebrae

PROTOCOL: **M.S.- myelopathy**

THORACIC **SIEMENS 3.0** **SIEMENS 1.5** **GE 1.5** **FUJI 1.2**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	
SAG COUNTER	T1 FLAIR	48	3	3		T1 TSE	45	6	1	T1 FSE	48	3	1	T1 TSE	45	6	0.6	
SAG	T1 FLAIR	30	4	1		T1 TSE	30	4	1	TI FSE	32	4	1	T1 TSE	32	3.5	1	
SAG	T2 FRFSE	30	4	1		T2 TSE	30	4	1	TS FRFSE	32	4	1	T2 TSE	32	3.5	1	
SAG	PD FSE	30	4	1		PD TSE	30	4	1	PD FSE	32	4	1	PD TSE	32	3.5	1	
SAG	T2 STIR	30	4	1		T2 TSE FSAT	30	4	1	T2 FSE FS	32	4	1	T2 FS	32	3.5	1	
AX	T2 FRFSE	20	4	1	X	T2 TSE	20	4	1	T2 FRSFE	20	4	1	T2 TSE	20	4	1	
AX	MEDIC	20	4	1		T2 FFE DISC	20	3	1	T/2D MERGE	16	3	1	PBSG AX	20	4	1	*BOTTOM 6 vertebrae
AX	T1	20	4	1	X	T1 TSE C+	20	4	1	T1 FSE C+	20	4	1	T1 TSE C+	32	4	1	
SAG	T1 FLAIR	30	4	1	X	T1 TSE C+	30	30	1	T1 FSE C+	32	3	1	T1 TSE AX C+	20	4	1	

PROTOCOL: **Surgical**

THORACIC **SIEMENS 3.0** **SIEMENS 1.5** **GE 1.5** **FUJI 1.2**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG COUNTER	T1 FLAIR	48	3	3		T1 TSE	45	6	1	T1 FSE	48	3	1	T1 TSE	45	6	0.6
SAG	T1 FLAIR	30	4	1		T1 TSE	30	4	1	TI FSE	32	4	1	T1 TSE	32	3.5	1
SAG	T2 FRFSE	30	4	1		T2 TSE	30	4	1	TS FRFSE	32	4	1	T2 TSE	32	3.5	1
SAG	T2 STIR	30	4	1		T2 TSE FSAT	30	4	1	T2 FSE FS	32	4	1	T2 FS	32	3.5	1
AX	T2 FRFSE	20	4	1		T2 TSE	20	4	1	T2 FRSFE	20	4	1	T2 TSE	20	4	1
AX	MEDIC	20	4	1		MEDIC	20	3	1	T/2D MERGE	16	3	1	PBSG AX	20	4	1
AX	T1	20	4	1	X	T1 TSE C+	20	4	1	T1 FSE C+	20	4	1	T1 TSE C+	32	4	1
SAG	T1 FLAIR	30	4	1	X	T1 TSE C+	30	30	1	T1 FSE C+	32	3	1	T1 TSE AX C+	20	4	1

PROTOCOL: **METS- osteomeylitis**

THORACIC **SIEMENS 3.0** **SIEMENS 1.5** **GE 1.5** **FUJI 1.2**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG COUNTER	T1 FLAIR	48	3	3		T1 TSE	45	6	1	T1 FSE	48	4	1	T1 TSE	45	6	0.6
SAG	T1 FLAIR	30	4	1		T1 TSE	30	4	1	TI FSE	32	4	1	T1 TSE	32	3.5	1
SAG	T2 FRFSE	30	4	1		T2 TSE	30	4	1	TS FRFSE	32	4	1	T2 TSE	32	3.5	1
SAG	T2 STIR	30	4	1		T2 TSE FSAT	30	4	1	T2 FSE FS	32	4	1	T2 FS	32	3.5	1
AX	T2 FRFSE	20	4	1		T2 TSE	20	4	1	T2 FRSFE	20	4	1	T2 TSE	20	4	1
SAG FS	T1 FLAIR	30	4	1	X	T1 TSE FS C+	30	4	1	T1 FSE FS C+	32	4	1	T1 FS C+	32	4	1
AX FS	T1	20	4	1	X	T1 TSE FS C+	20	4	1	T1 FSE FS C+	20	4	1	T1 FS C+	20	4	1

PROTOCOL: **ROUTINE** **Axial scout images should include the inferior kidneys to the L5-S1 level**

LUMBAR **SIEMENS 3.0** **SIEMENS 1.5** **GE 1.5** **FUJI 1.2**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	

* ADD T1 COR FOR SCOLIOSIS

SAG	T2 FRFSE	26	5	1		T1 TSE	24	5	1	T2 FRFSE	26	4	1	T2 TSE	26	5	1
SAG	T1 FLAIR	26	5	1		T2 TSE	24	5	1	T1 FSE	26	4	1	T1 TSE	26	5	1
SAG	T2 STIR	26	5	1		T2 TSE FSAT	24	5	1	T2 FRFSE FS	26	4	1	T2 TSE FSAT	26	5	1
AX	T1	22	4	1		T1 TSE	18	4	1	T1 SE	17	4	1	T2 TSE	16	4	1
AX	T2 FRFSE	22	4	1		T2 TSE	18	4	0.5	T2 FRFSE	17	4	1	T1 TSE	16	4	1

PROTOCOL: **W.WO - surgical, myelopathy** **Axial scout images should include the inferior kidneys to the L5-S1 level**

LUMBAR	**SIEMENS 3.0**					**SIEMENS 1.5**				**GE 1.5**				**FUJI 1.2**			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T2 FRFSE	26	5	1		T2 TSE	24	5	1	T2 FRFSE	26	4	1	T2 TSE	26	5	1
SAG	T1 FLAIR	26	5	1		T2 TSE	24	4	1	T1 FSE	26	4	1	T1 TSE	26	5	1
SAG	T2 STIR	26	5	1		T2 TSE FSAT	24	5	1	T2 FRFSE FS	26	4	1	T2 TSE FSAT	26	5	1
AX	T1	22	4	1		T1 TSE	18	4	1	T1 SE	17	4	1	T2 TSE	16	4	1
AX	T2 FRFSE	22	4	1		T2 TSE	18	4	0.5	T2 FRFSE	17	4	1	T1 TSE	16	4	1
AX	T1	22	4	1	X	T1 TSE C+	18	4	1	T1 SE C+	17	4	1	T1 TSE	16	4	1
SAG	T1 FLAIR	26	5	1	X	T1 TSE C+	24	5	1	T1FRFSE C+	17	4	1	T1 TSE	26	5	1

PROTOCOL: **METS - osteomeylitis,** **Axial scout images should include the inferior kidneys to the L5-S1 level**

LUMBAR	**SIEMENS 3.0**					**SIEMENS 1.5**				**GE 1.5**				**FUJI 1.2**			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T2 FRFSE	26	5	1		T2 TSE	24	5	1	T2 FRFSE	26	4	1	T2 TSE	26	5	1
SAG	T1 FLAIR	26	5	1		T2 TSE	24	5	1	T1 FSE	26	4	1	T2 SPIR	26	5	1
SAG	T2 STIR	26	5	1		T2 TSE FSAT	24	5	1	T2 FRFSE FS	26	4	1	T1 TSE	26	5	1
AX	T1	22	4	1		T1 TSE	18	4	1	T1 SE	17	4	1	T2 TSE	16	4	1
AX	T2 FRFSE	22	4	1		T2 TSE	18	4	0.5	T2 FRFSE	17	4	1	T1 TSE	16	4	1
AX FS	T1	22	4	1	X	T1 TSE FS C+	18	4	1	T1 FS	17	4	1	T1 SPIR	16	4	1
SAG FS	T1 FLAIR	26	5	1	X	T1 TSE FS C+	24	5	1	T1 FS	17	4	1	T1 SPIR	26	5	1

PROTOCOL: **W.WO**

SPINE LAB	**SIEMENS 3.0**					**SIEMENS 1.5**			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP
SAG	VIBE	30	1.4	0		FFE FSAT	30	1.25	0
SAG	VIBE	30	1.4	O	X	FFE FSAT C+	30	1.25	0
AX T2	SPACE	34	5	0	X				

MWH Hospital

PROTOCOL: **TRAUMA**

CERVICAL

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
SAG	T2 SAG	20	3	1	
SAG	STIR Sag	20	3	1	
SAG	T1 Sag	20	3	1	
AX	T2 FFE	18	3	1	
AX	STIR Ax	18	3	1	

PROTOCOL: **TRAUMA**

THORACIC

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+
SAG	T2 SAG	20	3	1	
SAG	STIR Sag	20	3	1	
SAG	T1 Sag	20	3	1	
AX	T2 FFE Stack	18	3	1	
AX	T2 Ax Stack	18	3	1	

PROTOCOL: **W.WO**

BRACH PLX **SIEMENS 3.0** **SIEMENS 1.5** **GE 1.5** **FUJI 1.2**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
AX	T1	24	5	1		T1 AX	22	5	1	T1 FSE	27	5	1	T1 FSE	24	5	1
AX	T2 STIR	24	5	1		T2 TSE FS	22	5	1	T2 FSE FS	27	5	1	T2 SPIR	24	5	1
SAG	T2 STIR	24	5	1		T2 TSE FS	27	5	1	T2 FSE FS	27	5	1	T1 TSE	20	5	1
SAG	T1	24	5	1		T1 TSE	27	5	1	T1 FSE	27	5	1	T2 SPIR	20	5	1
COR	T1	24	5	1		T1 TSE	22	5	1	T1 FSE	24	5	1	T1 TSE	22	5	1
COR	T2 STIR	24	5	1		T2 TSE FS	22	5	1	T2 FSE FS	24	5	1	T2 SPIR	22	5	1
AX	T1 FSPGR	24	5	1	X	T1 TSE FS C+	22	5	1	T1 FSE FS	27	5	1	TI SPIR C+	24	5	1
SAG	T1 FSPGR	24	5	1	X	T1 TSE FS C+	27	5	1	TI FSE FS	27	5	1	T1 SPIR C+	20	5	1
COR	T1 FSPGR	24	5	1	X	T1 TSE FS C+	22	5	1	TI FSE FS	24	5	1	T1 SPIR C+	22	5	1

PROTOCOL: **W.WO**

LUMB PLX **SIEMENS 3.0** **SIEMENS 1.5** **GE 1.5** **FUJI 1.2**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
COR	T1 FSE	30	5	1		T1 TSE	28	6	1	T2 FSE	31	7	2	T1 TSE	30	4	1
COR	T2 FSE STIR	30	5	1		T2 TSE FS	28	6	1	T2 FSE FS	31	7	2	T2 SPIR	30	4	1
SAG	T1 FSE	30	6	1		T1 TSE	28	6	1	T1 TSE	28	6	1	T1 TSE	28	6	1
SAG	T2 FSE STIR	30	6	1		T2 TSE FS	28	6	1	T2FSE FS	28	6	1	T2 SPIR	28	6	1
AX	T1 FSE	32	6	1		T1 TSE	37	5	1	T1FSE	30	7	2	T1 TSE	33	5	1
AX	T2 FSE STIR	32	6	1		T2 TSE FS	37	5	1	T2FSE FS	30	7	2	T2 SPIR	33	5	1
COR	T1 FSE FS	30	5	1	X	T1 TSE FS	28	6	1	T1FSE FS	31	7	2	T1 SPIR C+	30	4	1
AX	T1 FSE FS	32	6	1	X	T1 TSE FS	37	5	1	TIFSE FS	30	7	2	T2 SPIR C+	33	5	1

PROTOCOL: **W.WO** **Cover from Pituitary down to clavicles

STN **SIEMENS 3.0** **SIEMENS 1.5** **GE 1.5**

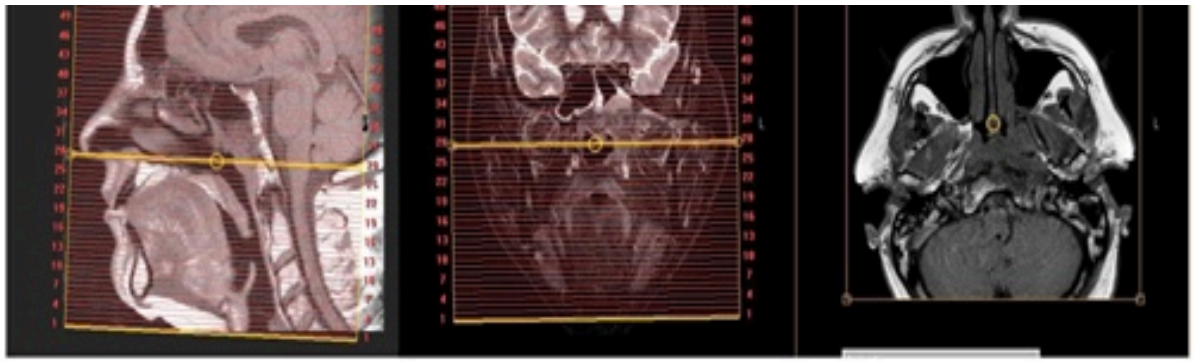
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
COR	T1 FSE	18	4	0.4		T1 TSE	18	4	0.4	T2 FSE	18	4	0.4
COR	T2 FSE STIR	18	4	0.4		T2 TSE STIR	18	4	0.4	T2 FSE STIR	18	4	0.4
SAG	T1	25	4	0.4		T1 TSE	25	4	0.4	T1 FSE	25	4	0.4
AX	T1 FSE	23	4	1		T1 TSE	23	4	1	T1FSE	23	4	1
AX	T2 FSE STIR	23	4	1		T2 TSE FS	23	4	1	T2FSE FS	23	4	1
AX	DWI B600	20	3	1		DWI B600	20	3	1	DWI B600	20	3	1
COR	T1 FSE	18	4	0.4	X	T1 TSE	18	4	0.4	T1 FSE	18	4	0.4
AX	T1 FSE FS	23	4	1	X	T1 TSE FS	23	4	1	T1 FSE FS	23	4	1

PROTOCOL: **W.WO** Face, Parotid, Sinus

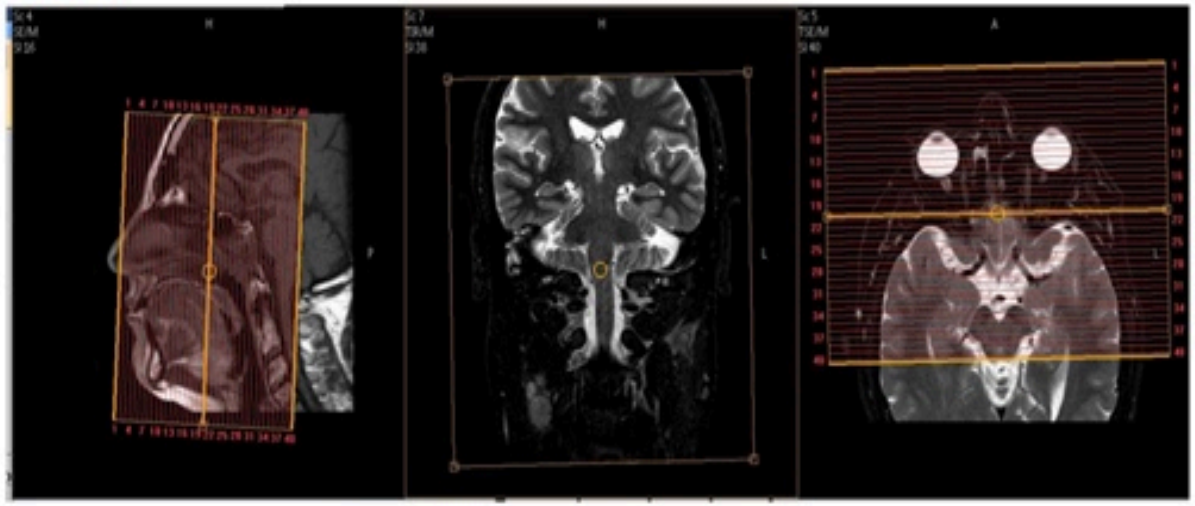
OFN **SIEMENS 3.0** **SIEMENS 1.5** **GE 1.5**

IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
COR	T1 FSE	18	3	0.5		T1 TSE	18	3	0.4	T2 FSE	18	3	0.4
COR	T2 FSE STIR	18	3	0.5		T2 TSE STIR	18	3	0.4	T2 FSE STIR	18	3	0.4
SAG	T1	22	4	0.4		T1 TSE	22	4	0.4	T1 FSE	22	4	0.4
AX	T1 FSE	18	3	0.5		T1 TSE	18	3	1	T1FSE	18	3	1
AX	T2 FSE STIR	18	3	0.5		T2 TSE FS	18	3	1	T2FSE FS	18	3	1
AX	DWI B600 2m	18	3	0.3		DWI B600 2mr	18	3	0.3	DWI B600 2mm	18	3	0.3
COR	T1 FSE	18	3	0.5	X	T1 TSE	18	3	0.4	T1 FSE	18	3	0.4
AX	T1 FSE FS	18	3	0.5	X	T1 TSE FS	18	3	1	T1 FSE FS	18	3	1

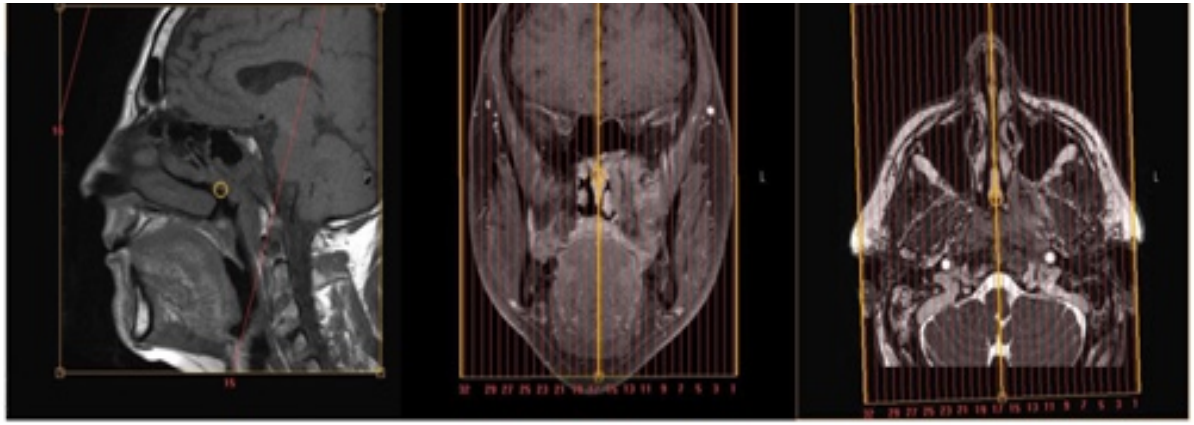
AXIAL (including DWI 2mm Voxel)



Coronal



Sagittal



FUJI 1.2

PULSE SEQ	FOV	SLICE THK	GAP
T1 TSE	18	4	0.4
T2 STIR	18	4	0.4
T1 TSE	25	4	0.4
T1 TSE	23	4	1
T2 FS	23	4	1
DWI B600	20	3	1
T1 C+	18	4	0.4
T1 FS C+	23	4	1

FUJI 1.2 Scan range INCLUDE CHIN ON ALL SCANS

PULSE SEQ	FOV	SLICE THK	GAP	
T1 TSE	18	3	0.4	Tip of nose to back of brain stem (include chin)
T2 STIR	18	3	0.4	Tip of nose to back of brain stem (include chin)
T1 TSE	22	4	0.4	Include larynx (scalp to scalp)
T1 TSE	18	3	1	Hyoid to top of Frontal Sinuses
T2 FS	18	3	1	Hyoid to top of Frontal Sinuses
DWI B600 2m	18	3	0.3	Hyoid to top of Frontal Sinuses
T1 C+	18	3	0.4	Tip of nose to back of brain stem (include chin)
T1 FS C+	18	3	1	Hyoid to top of Frontal Sinuses