PROTOCOL: MRA NECK WWO/CAROTID+VERTEBRAL MRA WWO

CLINICAL

INDICATIONS/ trauma, stenosis, transient ischemic attack, carotid bruit, dissection

HISTORY:

		IMAGE CONTRAST/				TR			FLIP		FOV		Freq		Max sca time
CAN ORDER	PLANE	WEIGHTING	MODE	PULSE SEQ	COVERAGE 2 SLICES TO COVER CAROTIDS AND	RANGE	TE RANGE	TI	ANGLE	THICKNESS/GAP (mm)	(cm)	x Ph	Axis	SEND TO PACS	(target)
1	SAG	PC LOC	2D	PC	VERTEBRALS- VENC=60CM/S	MIN	MIN		20-30	50/0	30	1.5X1.5	SI	COLLAPSE	3:00
2	COR	PC LOC	2D	PC	1-2 SLICES TO COVER CAROTIDS AND VERTEBRALS VENC=60CM/S	MIN	MIN		20-30	60/0	30	1.5X1.5	SI	COLLAPSE	3:00
3	AX	TOF MRA	3D	TOF-MULTI	COVER FROM FORAMEN MAGNUM TO ARCH BELOW ORIGINS	MIN	6.9 IF FLOW COMP, MIN IF NO FC	SUPERIOR TRACKING SAT	20-30	1.0-1.5/0VLP (SLABS OF 26-30 SLICES WITH 10-12 DISCARDS/ OVERLAPS)	16-20	.9X.9	RL	FULL SERIES + BELOW	8:00
*ADD IF DISSECTION	AX	T1-FS	2D/ 3D	FSE OR VIBE/ LAVA	1-2 SLICES TO COVER CAROTIDS AND VERTEBRALS VENC=60CM/S	<790 IF FSE	MIN		>130 OR 15-25	<4/1	18	1.0X1.0	RL	FULL SERIES	5:00
4	COR	T1 CEMRA	3D	FLASH/ FSPGR	COVER BOTH CAROTIDS AND VERTEBRALS. FOV MUST INCLUDE ARCH AND C.O.W.	MIN	6.9 IF FLOW COMP, MIN IF NO FC		25	.9-1.5/0VLP: 90-120 SLICES	30-32	.9X.1.5	SI	FULL SERIES	<45
5+C	COR	T1 CEMRA	3D	FLASH/ FSPGR	COVER BOTH CAROTIDS AND VERTEBRALS. FOV MUST INCLUDE ARCH AND C.O.W.	MIN	6.9 IF FLOW COMP, MIN IF NO FC		25	.9-1.5/0VLP: 90-120 SLICES	30-32	.9X.1.5	SI	FULL NON-SUBTRACTED SEIRES AND SUBTRACTION OF BEST PHASE	<45s PHAS 2 PHAS
	ERTEBRALS. S	EE BELOW FOR DETA	AILS ON C		-VOLUME PROJECTED MIP: AP, LATERAL CESSING.	; ROTATEI	D/SPIN MIPS OF LEFT A	ND RIGHT CAI	ROTID+VER	TEBRAL SEPARATED FROM EACH (OTHER; CO	RONAL AND S	AGITTAL 1	THICK (SLIDING SLAB) MIPS TH	IRU BOTI
	AP	VOLUME MIP	3D												
USE SERIES 3 AS SOURCE DATA FOR THESE MIPS	LAT LEFT SPIN	VOLUME MIP SUB-VOLUME MIP	3D 3D		COVER 180 DEGREES MINIMUM					5-10 DEGREE SEPARATION					
	RIGHT SPIN	SUB-VOLUME MIP	3D		COVER 180 DEGREES MINIMUM					5-10 DEGREE SEPARATION					
	COR	THICK MIP	2D							7-10/OVLP 5-8					
	SAG	THICK MIP	2D							7-10/OVLP 5-8					
	AX	MPR	2D		COVER ENTIRE VOLUME S-I					1X1		GENERATE FROM NON-SUBTRACTED SOURCE SERIES			
USE SERIES 5 AS SOURCE DATA FOR THESE MPRS &MIPs	AX	MPR	2D		COVER ENTIRE VOLUME S-I					1X1		GENERATE FROM SUBTRACTED SERIES			
	SPIN	VOLUME MIP	3D		COVER 180 DEGREES MINIMUM					5 DEGREE SEPARATION		GENERATE FROM SUBTRACTED SERIES			
	COR	THICK MIP	2D							7-10/OVLP 5-8		GENERATE FROM NON-SUBTRACTED SOURCE SERIES			
	SAG	THICK MIP	2D							7-10/0VLP 5-8		GENERATE FROM NON-SURTRACTED SOURCE SERIES			