PROTOCOL: MRV BRAIN-HEAD WO/CEREBRAL VENOGRAM WO/VENOUS MRA OF HEAD WO

CLINICAL INDICATIONS/ HISTORY: rule out dural venous sinus thrombosis, venous infarction

SCAN ORDER	PLANE	IMAGE CONTRAST / WEIGHTING	MODE	PULSE SEQ	COVERAGE	TR RANGE	TE RANGE	TI	FLIP ANGLE	THICKNESS/ GAP (mm)	FOV (cm)	Max Pixel (mm) Fr x Ph	Freq Axis	SEND TO PACS	Max scan time (target)
1	SAG	PC LOC	2D	PC	1 SLICE TO COVER SUPERIOR SAGITTAL SINUS VENC=20CM/S	MIN	MIN		20-30	60/0	24	1.25X1.25	SI	COLLAPSE	3:00
2	COR	TOF MRA	2D	TOF	COVER ENTIRE SKULL	MIN	MIN	INFERIOR SAT	60	2/OVLP	18	1.2X1.2		FULL SERIES + BELOW	5:30
3 (GE)	SAG	PC MRA	3D	PC/ InHance VELOCITY	COVER ENTIRE SKULL VENC~10-20 cm/s	MIN	MIN	INFERIOR SAT	20-30	.9-1.1/0VLP	22-24	.9X.9		FULL SERIES + BELOW	10:00
3 (SIEMENS)	SAG 15* OBL OFF MIDLINE	TOF MRA	2D	TOF	COVER ENTIRE SKULL	MIN	MIN	INFERIOR SAT	60	2/OVLP	24	1.2X1.2		FULL SERIES + BELOW	5:30
POST PROCESSING: IF NOT AUTOGENERATED (SIEMENS) 3 PLANES OF FULL-VOLUME PROJECTED MIP: AP, LATERAL, CAUDOCRANIAL, AND 3 PLANES OF THICK (2D) SLIDING-SLAB MIPS (OBL. AX-PARALLEL TO ORBITAL ROOF/OBL. COR-PARALLEL TO BASILAR ARTERY/SAG) USING MIP RENDERING ALGORITHM (NEVER AVERAGE, MPR, OR SSD). SEE BELOW FOR DETAILS.															
USE SERIES 2 AS SOURCE DATA FOR THESE MPRs & MIPs	AP	VOLUME MIP	3D												
	LAT	VOLUME MIP	3D												
	CAUDO-CRANIAL	VOLUME MIP	3D												
	AX	THICK MIP	2D		COVER ENTIRE SKULL					5-7/OVLP 3-5	20				
	COR	THICK MIP	2D		COVER ENTIRE SKULL					5-7/OVLP 3-5	18				
	SAG	THICK MIP	2D		COVER ENTIRE SKULL					5-7/OVLP 3-5	22				
	SPIN	VOLUME MIP	3D		COVER 180 DEGREES MINIMUM										
	TUMBLE	VOLUME MIP	3D		COVER 180 DEGREES MINIMUM										
USE SERIES 3 AS SOURCE DATA FOR THESE MPRs & MIPs	AP	VOLUME MIP	3D												
	LAT	VOLUME MIP	3D												
	CAUDO-CRANIAL	VOLUME MIP	3D												
	AX	THICK MIP	2D		COVER ENTIRE SKULL					5-7/OVLP 3-5	20				
	COR	THICK MIP	2D		COVER ENTIRE SKULL					5-7/OVLP 3-5	18				
	SAG	THICK MIP	2D		COVER ENTIRE SKULL					5-7/OVLP 3-5	22				
	SPIN	VOLUME MIP	3D		COVER 180 DEGREES MINIMUM										
	TUMBLE	VOLUME MIP	3D		COVER 180 DEGREES MINIMUM										
	AX	MPR	2D		COVER ENTIRE SKULL										