



Clinical Protocol

Transcranial Doppler

Show non-angle corrected color Doppler images with velocities:

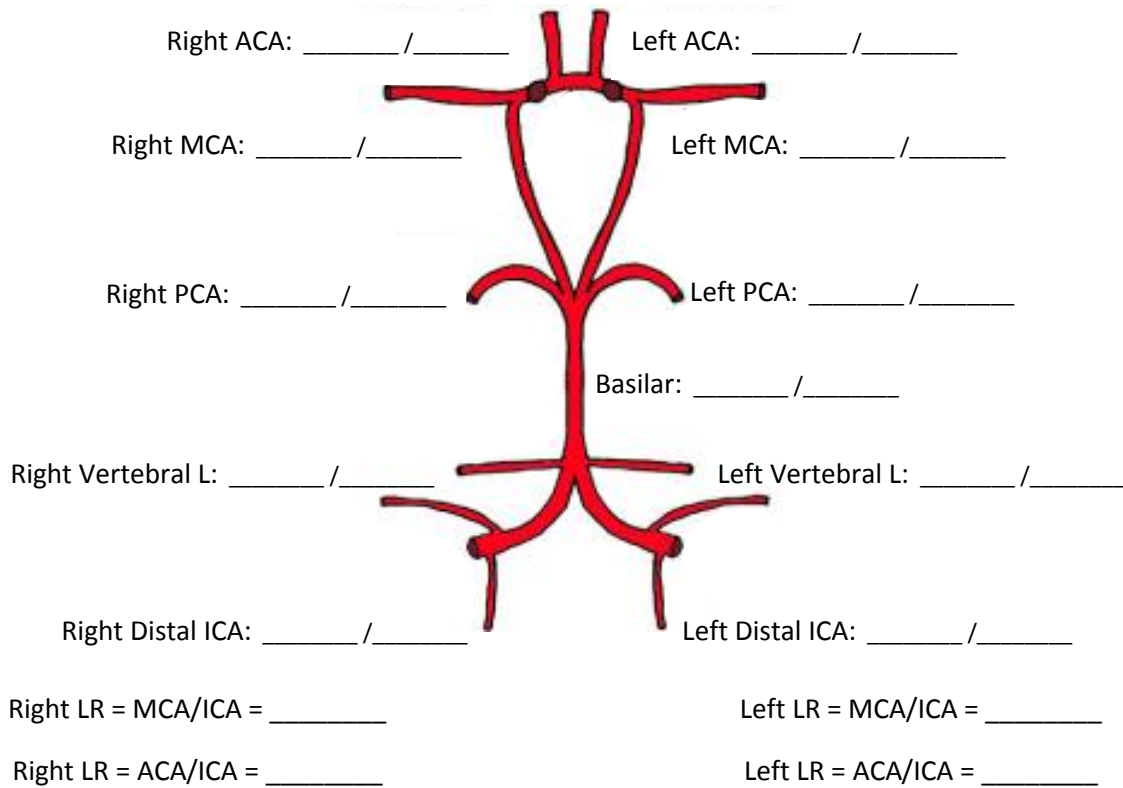
1. R/L middle cerebral artery (MCA),
2. R/L anterior cerebral artery (ACA),
3. R/L posterior cerebral artery (PCA),
4. R/L vertebral artery (VERT), and
5. Basilar artery.

Follow arteries as distal as possible and record highest time average peak velocity (TAP) and pulsatility Index (PI) on Transcranial Doppler Worksheet.

Calculate Lindegaard Ratio (LR) for MCAs and ACAs and document on Worksheet.



INDICATIONS	DATE/TIME	
	SONOGRAPHER	



TAP and Pulsatility Index

Vessel	Mean Velocity (cm/sec)	Depth from Probe (mm)	Flow Direction
MCA (M1)	62 ± 12	40 - 60	Towards
ACA (M1)	50 ± 12	65 - 75	Away
ICA	Varies	65	Towards
PCA (P1)	42 ± 10	65 - 75	Towards
PCA (P2)	40 ± 10	60 - 70	Away
Vertebral	36 ± 10	60 - 85	Away
Basilar	39 ± 10	> 85	Away

SONOGRAPHER CONFIRMATION: My signature confirms that instructions have been provided to the conscious patient regarding this exam, that US utilizes sound waves rather than ionizing radiation, and that coupling gel is used to improve the quality of the exam.	_____ Sonographer's Signature
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FMC	KMC	CMC	TMC	NHSC	Name / MR # / Label
KIC	MIC	PI	TI		
MFP	SFP	Other			
US Transcranial Doppler Worksheet					