Grading Carotid Artery Stenosis

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Grade of Stenosis (%, NASCET method)	Normal	10-40	50	8	70	80	90	Occlusion
Major criteria								
B-mode image, diameter	No Plaque			P	Plaque			Imaging of occluded artery
Flow imaging				Flow				No Flow
Systolic Flow velocity threshold (cm/s)				>125	>230	30	NA	0
Systolic Flow velocity average (cm/s)		≤160	210	240	330	370	Variable	0
Post-stenotic Systolic Flow velocity (cm/s)				<50	≥50	<50	<30	0
Collateral pathways (ophthalmic, communicating arteries)		N o			Possible		Present	
Additional Criteria								
Common carotid artery diastolic flow		Normal			# Ľ	ĸ	ĸ	Ł
Downstream flow disturbance	No		+	‡	‡	++	Variable	NA
End-diastolic flow velocity (within stenosis)				<100	>100		Variable	NA
Systolic velocity ratio (ICA stenosis/ CCA)	<2		IV	≥2	×4	P	Variable	NA
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Adapted from: von Reutern GM et al. Grading Carotid Stenosis Using Ultrasonic Methods. Stroke 2012;43:916-921