

Med Rec No: 123456	Study Time: 12:52 PM
DOB: 1933-11-12	Equip. Used:
Gender: F	Location:
Age: 75	Sonographer:
Height: 66.00 in	Referring: sample group
Weight: 123.00 lbs	Reading: Boisey Barnes, MD, F.A.C.C.

Study Quality: Excellent

Medications: None

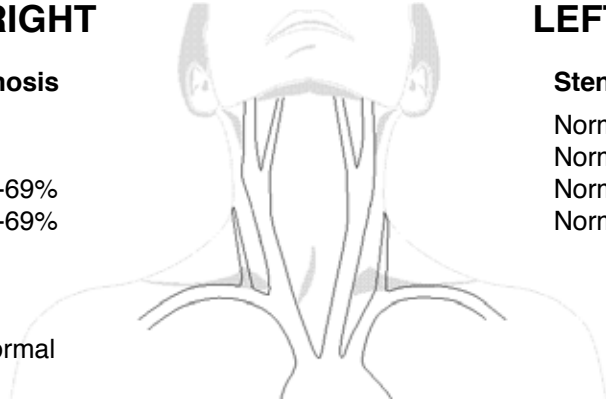
Indications: 342.00 Muscle weakness, flaccid hemiplegia

Risk Factors:

Complications: Current smoker

Carotid Criteria ICA				
Degree of Stenosis (%)	ICA PSV (cm/s)	Visual Plaque Estimate	ICA/CCA PSV Ratio	ICA EDV (cm/s)
Normal	---	Normal IMT, No plaque	---	<40
Minimal	---	Increased IMT > 0.10	---	<40
1-15	<125	mild plaque bulb/ICA	<1.6	<40
16-49	<125	moderate plaque	<1.8	<40
50-69	125-230	>=50% lumen	2.0-4.0	40-99
>=70	>=230	>50% lumen	>4.0	>=100
80-99	>230	Marked lumen	n/a	>140
Near Occlusion	Low, undetectable	Marked lumen	n/a	variable
Total Occlusion	undetectable	No lumen, no flow	n/a	n/a

RIGHT				LEFT			
	PSV (cm/s)	EDV (cm/s)	Stenosis		PSV (cm/s)	EDV (cm/s)	Stenosis
ECA	112	24		ECA	49	24	Normal
ICA-dis	112	24		ICA-dis	54	24	Normal
ICA-mid	133	25	50-69%	ICA-mid	53	24	Normal
ICA-prox	134	25	50-69%	ICA-prox	52	26	Normal
Bulb	123	26		Bulb	52	27	
CCA-dis	113	28		CCA-dis	123	27	
CCA-mid	114	28		CCA-mid	123	25	
CCA-prox	100	27	Normal	CCA-prox	140	25	



RIGHT 1.3 Normal Antegrade Normal	LEFT 1.6 Normal Antegrade Normal
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Duplex Imaging of the carotid arteries (extra cranial carotid circulation) reveals:

Right: Doppler flow velocities in the right proximal internal carotid artery (ICA) are consistent with stenosis in the range of 50-69% with visual evidence of <=50% mild-moderate atherosclerotic plaque. Doppler flow velocities in the right mid internal carotid artery (ICA) are consistent with stenosis in the range of 50-69% with visual evidence of <=50% mild-moderate atherosclerotic plaque. The right distal internal carotid artery (ICA) shows heterogeneous

plaque. The right external carotid artery (ECA) shows calcific plaque. Antegrade flow is seen in the right vertebral artery. The right vessel geometry is normal. The right vertebral artery waveform is normal. right carotid intimal-medial thickness is 23 mm.

Left: Peak systolic velocities in the left bulb, internal, and external carotid arteries are within normal limits. The left proximal common carotid artery (CCA) shows calcific plaque. Antegrade flow is seen in the left vertebral artery. The left vessel geometry is normal. The left vertebral artery waveform is normal. left carotid intimal-medial thickness is 34 mm.

Conclusion:

Moderate stenosis of the right mid internal carotid artery and proximal internal carotid artery (>50% stenosis in the range of 50-69%). There is evidence of calcific plaque in the right external carotid artery.

No evidence of hemodynamically significant stenosis in the left carotid bifurcation vessels. There is evidence of calcific plaque in the left carotid artery.

Statin agents should be considered. An antiplatelet agent may be appropriate (eg: aspirin). Follow up in six months is appropriate if clinically indicated.

September 23, 2009

Laurie A. Smith

