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|---------------------------|---|
| 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

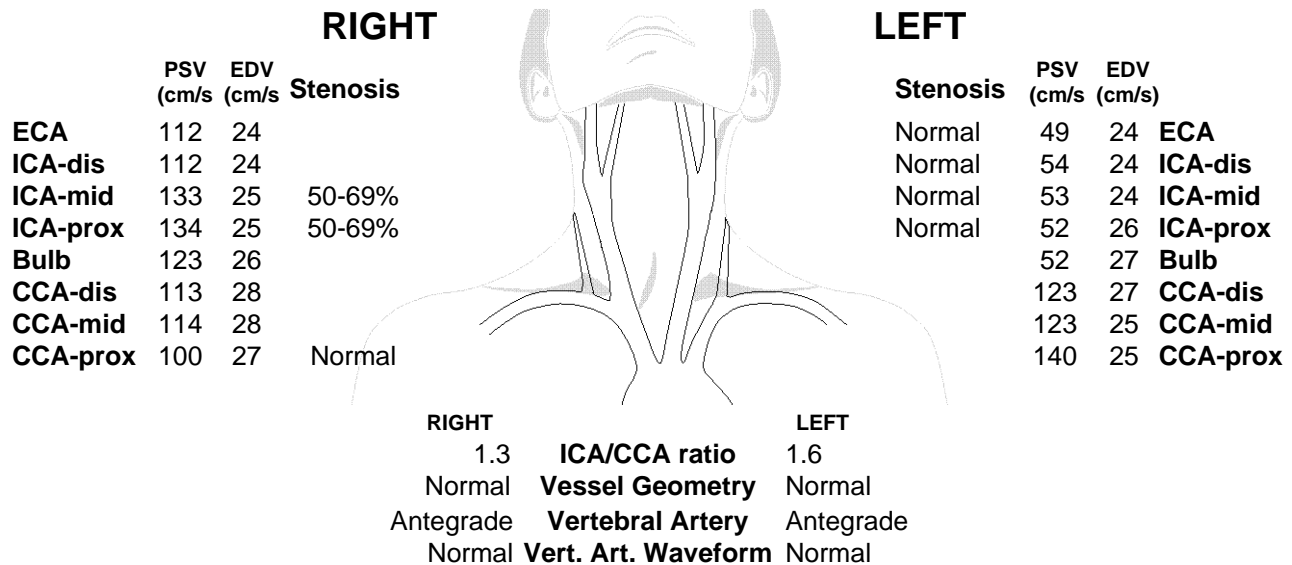
Medications: None

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 |



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

