

**Accession/Encounter No:** 613335  
**Procedure/Order ID:** 254998  
**DOB:** 1983-12-01     **Age:** 35  
**Gender:** F

**Study Time:** 03:10 PM  
**Reading Group:** Reset Reading  
**Referring Group:** Anytown Family Practice  
**Sonographer:** Jason Stoddard  
**Location:** West  
**Unit:** 5C  
**Equipment:** Vivid S

**Study Quality:** Excellent

**Risk Factors:** Elevated Cholesterol Level

**Diagnosis Code:** (H35.82) Retinal ischemia

**Procedure Code:** 93880Extracranial bilat study

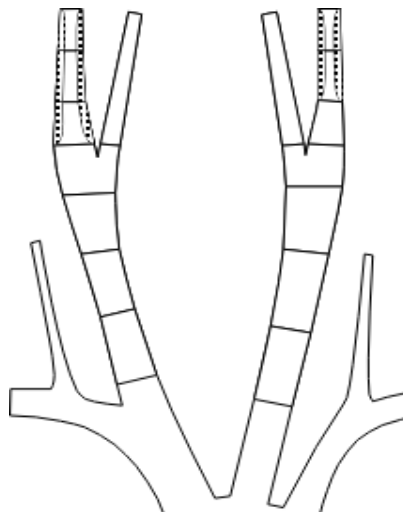
After informed consent, a duplex Carotid ultrasound was performed.

## RIGHT

	PSV (cm/s)	EDV (cm/s)	Stenosis
ECA	52	9	
ICA-dis	94	32	16-49%
ICA-mid	87	26	16-49%
ICA-prox	67	21	16-49%
Bifurcation	53	11	
CCA-dis	59	18	
CCA-mid	57	15	
CCA-prox	54	14	

## LEFT

	PSV (cm/s)	EDV (cm/s)	Stenosis
ECA	83	7	
ICA-dis	88	23	50-69%
ICA-mid	91	15	50-69%
ICA-prox	89	37	
Bifurcation	42		
CCA-dis	47	8	
CCA-mid	48		
CCA-prox	53	10	



**PSV ICA/CCA ratio:** 1.61  
**Vertebral PSV:** 72 cm/s

**Vessel Geometry:** Normal  
**Vertebral PSV:** 70 cm/s  
**Vert. Art. Waveform:** Normal  
**Subclavian PSV:** 157 cm/s  
**Sub. Art. Waveform:** Normal multiphasic

### Morphology








	Normal		Heterogeneous
	Homogeneous		Calcific
	Shadowing		Intimal hyperplasia
	Post-operative		

Image represents data.  
 For details see findings/conclusions text.

### Right Findings:

Doppler flow velocities in the right internal carotid artery (ICA) are consistent with stenosis in the range of 16-49% with moderate homogeneous plaque.  
 Right vertebral PSV 72 cm/sec.

### Left Findings:

Doppler flow velocities in the left distal internal carotid artery (ICA-dis) and mid internal carotid artery (ICA-mid) are consistent with stenosis in the range of 50-69% with  $\geq 50\%$  homogeneous plaque.  
 The left vessel geometry is normal.  
 The left vertebral artery waveform is normal.  
 Left vertebral PSV 70 cm/sec.  
 Duplex imaging demonstrates left subclavian artery is normal.

### Conclusions:

Moderate stenosis in the right internal carotid artery (16-49%).  
 Severe stenosis in the left internal carotid artery (50-69%).  
 Follow up in six months is appropriate if clinically indicated.

April 23, 2019 11:57 AM EDT  
 CSI Admin Staff  
 Electronically Signed on Studycast