# Core Modality 1- Carotid Duplex Scan Reports

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1. **Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

L.Haworth



Colour Duplex of the Extracranial Carotid Arteries

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Lt

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Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

L.Haworth

3.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (30-40%)

Bifurcation: min/mod (40-50%)

Internal: SEVERE (>90%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Bifurcation: Minimal (40-49%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Conclusion

RIGHT: there is a >90% mixed morphology stenosis approx 1cm from the origin of the ICA. The distal ICA is widely patent.

LEFT: carotid arteries are minimally diseased with normal flow patterns.

Recommend referral for vascular surgery if deemed clinically appropriate.

L.Haworth

4.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

L.Haworth

5.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

L.Haworth

6.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

L.Haworth

7.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Bifurcation: minimal (40-49%)

Internal: Moderate (50-59%)

External: Minimal (40-49%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Bifurcation: minimal (40-49%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

RIGHT:Calcified plaque present at the bifurcation and extending into the origins of the ICA and ECA. Calcified plaque causing a moderate stenosis at the origin of the ICA.

LEFT:Minimal calcified plaque present at the bifurcation and extending into the origins of the ICA and ECA.

L.Haworth

8.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

L.Haworth

9.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

L.Haworth

10.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

Globally low velocities detected bilaterally.

L.Haworth

11.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

L.Haworth

12.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (30-40%)

Bifurcation: moderate (50-59%)

Internal: SEVERE (AT LEAST 70%) \*SEE BELOW

External: Min/moderate (40-50%)

Vertebral: Orthograde flow

Lt

Common: Minimal (40-49%)

Internal:\*see below

External:\*see below

Vertebral: Orthograde flow

RIGHT: the origin of the RIGHT ICA is obscured by shadowing from calcification; therefore unable to comment on the severity of disease in this segment. Just beyond this obscured segment (approx 1cm distal to the origin) visually the ICA appears approx 70% stenosed with raised velocities detected (PSV-278cm/s EDV- 61cm/s).

LEFT: the vessel which appears to be the ICA (no branches and negative for temporal tap response) is patent and appears significantly diseased (PSV-440cm/s) suggesting a >70% stenosis. The other vessel (probable ECA) appears occluded.

L.Haworth

A.Jerram

13.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

L.Haworth

14.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

L.Haworth

15.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: low velocity retrograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (30-40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

Laura Haworth

16.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

Laura Haworth

17.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

Laura Haworth

18.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

Laura Haworth

19.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

Laura Haworth

20.

**Colour Duplex of the Extracranial Carotid Arteries**

Right:

Common: minimal (less than 40%)

Bifurcation: min-mod(~40%)

Internal: minimal (less than 40%)

External: minimal (less than 40%)

Vertebral: orthograde flow

Left:

Common: minimal(less than 40%)

Bifurcation: minimal(less than 40%)

Internal: minimal (less than 40%)

External: minimal (less than 40%)

Vertebral: orthograde flow

Conclusion:

Right: Small area of mixed plaque in the CCA bifurcation.

Left: No significant disease identified. No evidence of ulcerated plaque identified.

L.Haworth

21.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

Laura Haworth

22.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

Laura Haworth

23.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

Laura Haworth

24.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<30%)

Internal: Minimal (<30%)

External: Minimal (<30%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

Laura Haworth

25.

**Colour Duplex of the Extracranial Carotid Arteries**

% stenosis

Rt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Lt

Common: Minimal (<40%)

Internal: Minimal (<40%)

External: Minimal (<40%)

Vertebral: Orthograde flow

Bilateral carotid arteries are minimally diseased with normal flow patterns.

Laura Haworth