

# Carotid arteries

## BILATERALLY

Mild heterogeneous plaque in the CCA, ICA and ECA is resulting in 1-29% stenosis.

Normal antegrade vertebral flow.

| RIGHT            |                  |                  | DATA                                | LEFT             |                  |                  |
|------------------|------------------|------------------|-------------------------------------|------------------|------------------|------------------|
| ICA              | ECA              | CCA              |                                     | ICA              | ECA              | CCA              |
| 54/20            | 48/8             | 48/10            | PSV / EDV (cm/sec)                  | 46/19            | 48/12            | 55/17            |
| Type 3<br>Smooth | Type 3<br>Smooth | Type 3<br>Smooth | <sup>1</sup> Plaque Characteristics | Type 3<br>Smooth | Type 3<br>Smooth | Type 3<br>Smooth |
| 1-29%            | 1-29%            | 1-29%            | <sup>2</sup> PERCENTAGE<br>STENOSIS | 1-29%            | 1-29%            | 1-29%            |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% ; > 90% ; Near occlusion ; Occlusion

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Scan performed on the ward.

## RIGHT

No evidence of stenosis in the extracranial carotid tree.

Normal antegrade vertebral flow.

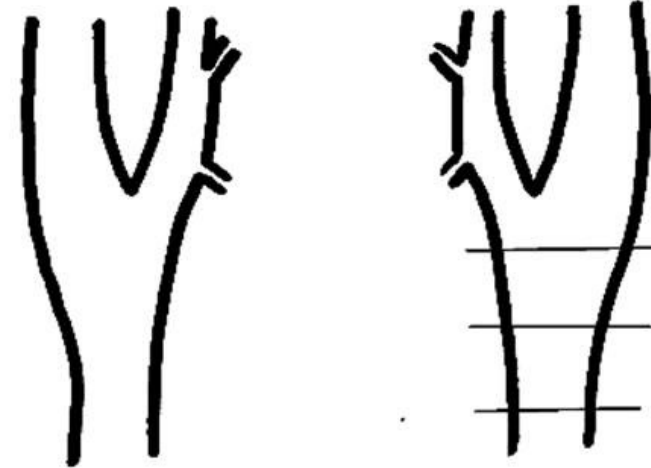
## LEFT

Incomplete views due to PICC line in situ.

CCA could not be adequately imaged.

No evidence of stenosis in the ICA and ECA.

Vertebral artery could not be imaged.



| RIGHT |       |        | DATA                                | LEFT  |       |             |
|-------|-------|--------|-------------------------------------|-------|-------|-------------|
| ICA   | ECA   | CCA    |                                     | ICA   | ECA   | CCA         |
| 94/37 | 79/17 | 117/20 | PSV / EDV (cm/sec)                  | 63/27 | 122/6 | Not scanned |
| -     | -     | -      | <sup>1</sup> Plaque Characteristics | -     | -     | -           |
| 0%    | 0%    | 0%     | <sup>2</sup> PERCENTAGE STENOSIS    | 0%    | 0%    | -           |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

## RIGHT

Calcified plaque in the distal CCA and ICA origin is resulting in 50-69% stenosis.

The plaque measures ~1.8cm in length.

Mild calcification noted distal to the stenosis, however the ICA is patent widely patent distally.

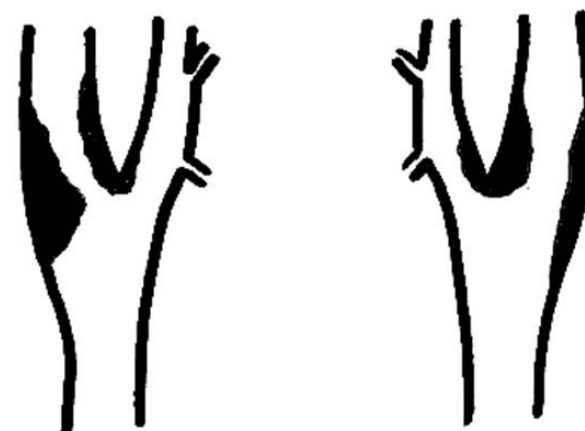
Slightly high CCA bifurcation noted (N.B. patient has short neck), however ICA viewed distally with patient repositioning.

Normal antegrade vertebral flow.

## LEFT

Heterogeneous plaque in proximal ICA is resulting in 30-49% stenosis.

Normal antegrade vertebral flow.



| RIGHT               |                     |                     | DATA                                | LEFT             |                  |                  |
|---------------------|---------------------|---------------------|-------------------------------------|------------------|------------------|------------------|
| ICA                 | ECA                 | CCA                 |                                     | ICA              | ECA              | CCA              |
| 210/40              | 115/10              | 80/15               | PSV / EDV (cm/sec)                  | 95/12            | 140/19           | 72/14            |
| Type 4<br>Irregular | Type 4<br>Irregular | Type 4<br>Irregular | <sup>1</sup> Plaque Characteristics | Type 3<br>Smooth | Type 3<br>Smooth | Type 3<br>Smooth |
| 50-69%              | 30-49%              | 30-49%              | <sup>2</sup> PERCENTAGE<br>STENOSIS | 30-49%           | 30-49%           | 1-29%            |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;  
Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

*Incidental finding: irregular heart rate noted.*

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Scan performed on the ward.

#### RIGHT

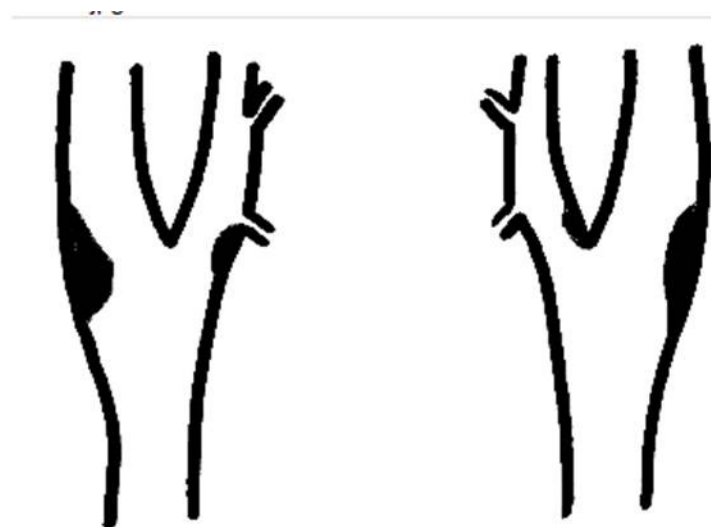
Heterogeneous plaque in the distal CCA and ICA origin is resulting in 30-49% stenosis.

Normal antegrade vertebral flow.

#### LEFT

Heterogeneous plaque in the distal CCA and ICA origin is resulting in 30-49% stenosis.

Normal antegrade vertebral flow.



| RIGHT            |                  |                  | DATA                                | LEFT             |                  |                  |
|------------------|------------------|------------------|-------------------------------------|------------------|------------------|------------------|
| ICA              | ECA              | CCA              |                                     | ICA              | ECA              | CCA              |
| 73/15            | 66/5             | 60/13            | PSV / EDV (cm/sec)                  | 48/14            | 71/5             | 73/12            |
| Type 2<br>Smooth | Type 2<br>Smooth | Type 2<br>Smooth | <sup>1</sup> Plaque Characteristics | Type 3<br>Smooth | Type 3<br>Smooth | Type 3<br>Smooth |
| 30-49%           | 1-29%            | 30-49%           | <sup>2</sup> PERCENTAGE<br>STENOSIS | 30-49%           | 1-29%            | 30-49%           |

#### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## RIGHT

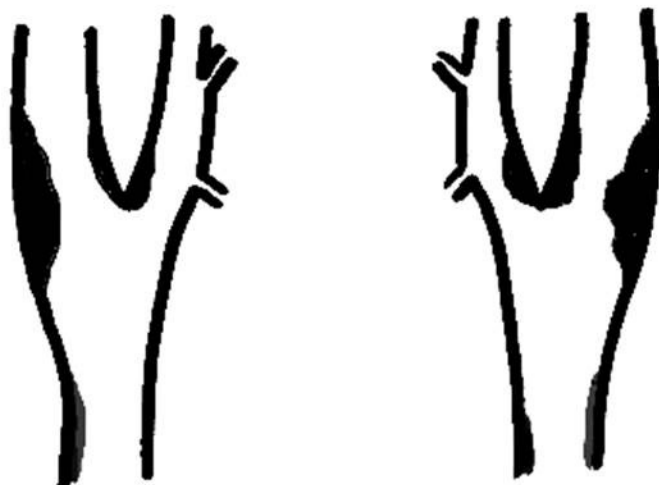
Heterogeneous plaque in the CCA, ICA and ECA is resulting in 30-49% stenosis.  
Tortuous ICA noted distally.

Normal antegrade vertebral flow.

## LEFT

**Heterogeneous plaque in the ICA is resulting in 50-69% stenosis.**  
The plaque measures ~2.5cm in length.  
ICA appears generally small calibre, measuring ~5mm in diameter distal to the stenosis.  
ICA is mildly tortuous but patent distally.

Normal antegrade vertebral flow.



| RIGHT            |                  |                  | DATA                                | LEFT                |                     |                     |
|------------------|------------------|------------------|-------------------------------------|---------------------|---------------------|---------------------|
| ICA              | ECA              | CCA              |                                     | ICA                 | ECA                 | CCA                 |
| 75/9             | 132/10           | 93/10            | PSV / EDV (cm/sec)                  | 168/29              | 153/8               | 115/12              |
| Type 3<br>Smooth | Type 3<br>Smooth | Type 3<br>Smooth | <sup>1</sup> Plaque Characteristics | Type 4<br>Irregular | Type 4<br>Irregular | Type 4<br>Irregular |
| 30-49%           | 30-49%           | 30-49%           | <sup>2</sup> PERCENTAGE<br>STENOSIS | 50-69%              | 30-49%              | 30-49%              |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% ; > 90% ; Near occlusion ; Occlusion

*Referring Doctor informed of results by email.*

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## RIGHT

Mild heterogeneous plaque in the distal CCA, proximal ICA and ECA is resulting in 1-29% stenosis.

Normal antegrade vertebral flow.

## LEFT

**Calcified plaque in the distal CCA and proximal ICA is resulting in 70-89% stenosis.**

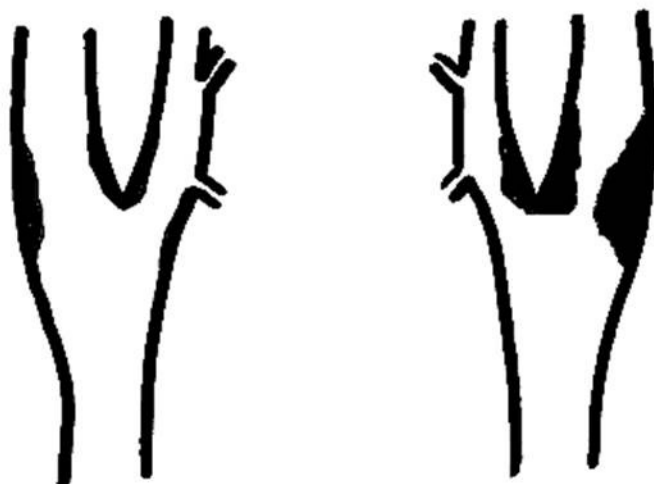
The plaque measures ~1.5cm in length.

The ICA is patent distally, however suboptimal views with disturbed flow detected ?plaque distally.

Normal level CCA bifurcation.

>50% stenosis in the ECA.

Normal antegrade vertebral flow.



| RIGHT            |                  |                  | DATA                                | LEFT                |                  |                     |
|------------------|------------------|------------------|-------------------------------------|---------------------|------------------|---------------------|
| ICA              | ECA              | CCA              |                                     | ICA                 | ECA              | CCA                 |
| 62/17            | 82/3             | 51/7             | PSV / EDV (cm/sec)                  | 262/78              | 130/5            | 51/9                |
| Type 3<br>Smooth | Type 3<br>Smooth | Type 3<br>Smooth | <sup>1</sup> Plaque Characteristics | Type 4<br>Irregular | Type 4<br>Smooth | Type 4<br>Irregular |
| 1-29%            | 1-29%            | 1-29%            | <sup>2</sup> PERCENTAGE<br>STENOSIS | 70-89%              | >50%             | 30-49%              |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

*Results discussed with the Stroke Team.*

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## RIGHT

Mild heterogeneous plaque in the proximal ICA is resulting in 1-29% stenosis.

Normal antegrade vertebral flow.

## LEFT

Heterogeneous plaque in the distal CCA and proximal ICA is resulting in 30-49% stenosis.

Normal antegrade vertebral flow.

| RIGHT            |        |        | DATA                                | LEFT             |        |                  |
|------------------|--------|--------|-------------------------------------|------------------|--------|------------------|
| ICA              | ECA    | CCA    |                                     | ICA              | ECA    | CCA              |
| 83/19            | 164/17 | 128/17 | PSV / EDV (cm/sec)                  | 120/20           | 132/12 | 117/17           |
| Type 3<br>Smooth | -      | -      | <sup>1</sup> Plaque Characteristics | Type 3<br>Smooth | -      | Type 3<br>Smooth |
| 1-29%            | 0%     | 0%     | <sup>2</sup> PERCENTAGE<br>STENOSIS | 30-49%           | 0%     | 1-29%            |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic; Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## RIGHT

Calcified plaque in the distal CCA and ICA origin is resulting in 30-49% stenosis.

Normal antegrade vertebral flow.

## LEFT

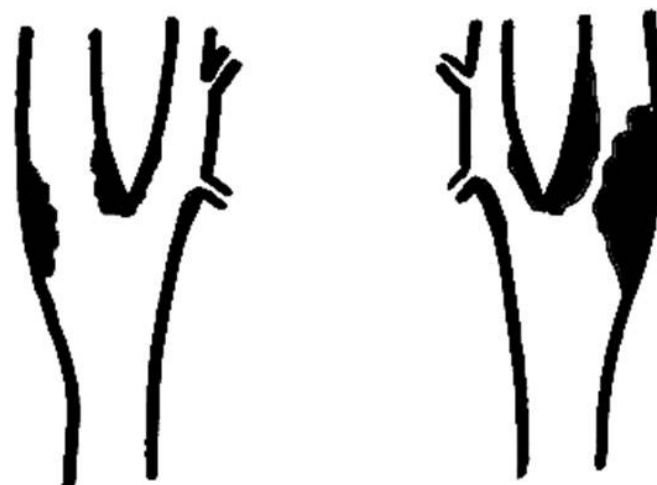
Dense calcified plaque in the distal CCA and ICA origin is resulting in >90% stenosis.

The plaque measures ~2cm in length.

ICA is widely patent distally.

Normal level CCA bifurcation noted.

Normal antegrade vertebral flow.



| RIGHT               |                  |                     | DATA                                | LEFT                  |                  |                       |
|---------------------|------------------|---------------------|-------------------------------------|-----------------------|------------------|-----------------------|
| ICA                 | ECA              | CCA                 |                                     | ICA                   | ECA              | CCA                   |
| 61/11               | 97/6             | 60/12               | PSV / EDV (cm/sec)                  | 556/225               | 114/1            | 67/13                 |
| Type 4<br>Irregular | Type 4<br>Smooth | Type 4<br>Irregular | <sup>1</sup> Plaque Characteristics | Type 4/5<br>Irregular | Type 4<br>Smooth | Type 4/5<br>Irregular |
| 30-49%              | 1-29%            | 1-29%               | <sup>2</sup> PERCENTAGE<br>STENOSIS | >90%                  | 1-29%            | 30-49%                |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

Scan observed by Mr Harrison.

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## BILATERALLY

No evidence of stenosis in the extracranial carotid tree.

Normal antegrade vertebral flow.

| RIGHT |      |       | DATA                                | LEFT  |       |       |
|-------|------|-------|-------------------------------------|-------|-------|-------|
| ICA   | ECA  | CCA   |                                     | ICA   | ECA   | CCA   |
| 66/26 | 53/6 | 63/19 | PSV / EDV (cm/sec)                  | 51/20 | 54/12 | 73/24 |
| -     | -    | -     | <sup>1</sup> Plaque Characteristics | -     | -     | -     |
| 0%    | 0%   | 0%    | <sup>2</sup> PERCENTAGE STENOSIS    | 0%    | 0%    | 0%    |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## RIGHT

Mild heterogeneous plaque in the CCA, ICA and ECA is resulting in 1-29% stenosis.

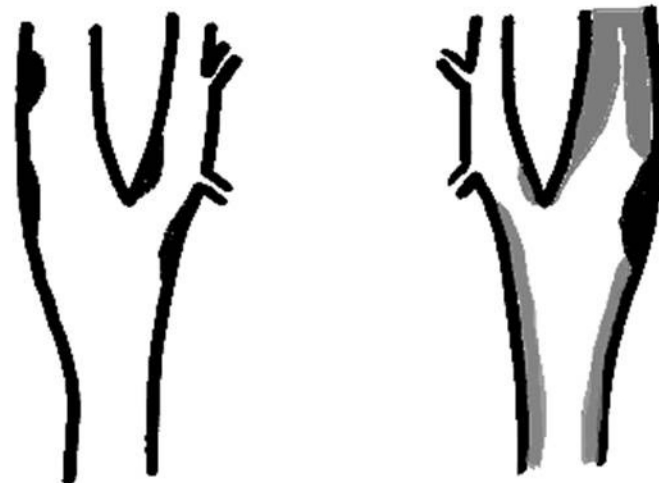
Normal antegrade vertebral flow.

## LEFT

The ICA is patent at the origin. Smooth homogenous plaque is resulting in a small channel of low velocity, high resistant flow in the mid ICA. The ICA appears occluded distally.

Smooth homogenous plaque in the mid and distal CCA is resulting in 40-49% stenosis.

Normal antegrade vertebral flow.



| RIGHT         |               |               | DATA                                | LEFT          |               |               |
|---------------|---------------|---------------|-------------------------------------|---------------|---------------|---------------|
| ICA           | ECA           | CCA           |                                     | ICA           | ECA           | CCA           |
| 51/9          | 114/11        | 71/11         | PSV / EDV (cm/sec)                  | See comments  | 80/7          | 80/9          |
| Type 3 Smooth | Type 3 Smooth | Type 3 Smooth | <sup>1</sup> Plaque Characteristics | Type 1 Smooth | Type 2 Smooth | Type 2 Smooth |
| 1-29%         | 1-29%         | 1-29%         | <sup>2</sup> PERCENTAGE STENOSIS    | 100%          | 1-29%         | 30-49%        |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% ; > 90% ; Near occlusion ; Occlusion

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## BILATERALLY

Mild heterogeneous plaque in the ICA is resulting in 1-29% stenosis.

Normal antegrade vertebral flow.

| RIGHT            |       |       | DATA                                | LEFT             |       |       |
|------------------|-------|-------|-------------------------------------|------------------|-------|-------|
| ICA              | ECA   | CCA   |                                     | ICA              | ECA   | CCA   |
| 47/14            | 55/11 | 63/17 | PSV / EDV (cm/sec)                  | 52/22            | 54/14 | 53/15 |
| Type 3<br>Smooth | -     | -     | <sup>1</sup> Plaque Characteristics | Type 3<br>Smooth | -     | -     |
| 1-29%            | 0%    | 0%    | <sup>2</sup> PERCENTAGE<br>STENOSIS | 1-29%            | 0%    | 0%    |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## RIGHT

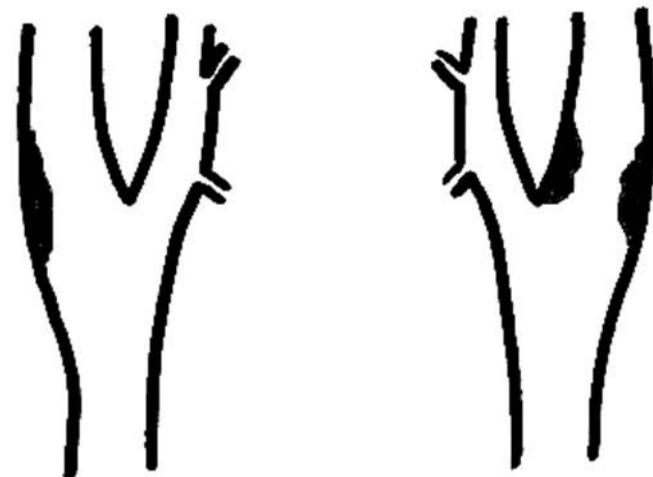
CEA site is widely patent, mild restenosis of 1-29% noted.

Normal antegrade vertebral flow.

## LEFT

Heterogeneous plaque in the distal CCA and proximal ICA is resulting in 30-49% stenosis.

Normal antegrade vertebral flow.



| RIGHT            |                  |                  | DATA                                | LEFT             |                  |                  |
|------------------|------------------|------------------|-------------------------------------|------------------|------------------|------------------|
| ICA              | ECA              | CCA              |                                     | ICA              | ECA              | CCA              |
| 60/15            | 113/5            | 55/11            | PSV / EDV (cm/sec)                  | 92/21            | 149/5            | 84/11            |
| Type 2<br>Smooth | Type 3<br>Smooth | Type 3<br>Smooth | <sup>1</sup> Plaque Characteristics | Type 4<br>Smooth | Type 3<br>Smooth | Type 4<br>Smooth |
| 1-29%            | 1-29%            | 1-29%            | <sup>2</sup> PERCENTAGE<br>STENOSIS | 30-49%           | 1-29%            | 1-29%            |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;  
Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## SCAN PERFORMED ON THE WARD

### BILATERALLY

No evidence of stenosis in the extracranial carotid tree.

Normal antegrade vertebral flow.

| RIGHT  |       |       | DATA                                | LEFT |      |        |
|--------|-------|-------|-------------------------------------|------|------|--------|
| ICA    | ECA   | CCA   |                                     | ICA  | ECA  | CCA    |
| 104/10 | 128/7 | 142/6 | PSV / EDV (cm/sec)                  | 71/7 | 72/7 | 110/11 |
| -      | -     | -     | <sup>1</sup> Plaque Characteristics | -    | -    | -      |
| 0%     | 0%    | 0%    | <sup>2</sup> PERCENTAGE STENOSIS    | 0%   | 0%   | 0%     |

#### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## RIGHT

Mild heterogeneous plaque in the ICA is resulting in 1-29% stenosis.

Normal antegrade vertebral flow.

## LEFT

No evidence of stenosis in the extracranial carotid tree.

Normal antegrade vertebral flow.

| RIGHT            |       |       | DATA                                | LEFT  |       |       |
|------------------|-------|-------|-------------------------------------|-------|-------|-------|
| ICA              | ECA   | CCA   |                                     | ICA   | ECA   | CCA   |
| 45/16            | 95/15 | 88/15 | PSV / EDV (cm/sec)                  | 48/16 | 81/12 | 71/19 |
| Type 3<br>Smooth | -     | -     | <sup>1</sup> Plaque Characteristics | -     | -     | -     |
| 1-29%            | 0%    | 0%    | <sup>2</sup> PERCENTAGE<br>STENOSIS | 0%    | 0%    | 0%    |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89%, > 90% ; Near occlusion ; Occlusion

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## BILATERALLY

No evidence of stenosis in the extracranial carotid tree.

Normal antegrade vertebral flow.

| RIGHT |      |      | DATA                                | LEFT |      |      |
|-------|------|------|-------------------------------------|------|------|------|
| ICA   | ECA  | CCA  |                                     | ICA  | ECA  | CCA  |
| 31/3  | 87/5 | 42/1 | PSV / EDV (cm/sec)                  | 36/5 | 54/2 | 61/4 |
| -     | -    | -    | <sup>1</sup> Plaque Characteristics | -    | -    | -    |
| 0%    | 0%   | 0%   | <sup>2</sup> PERCENTAGE STENOSIS    | 0%   | 0%   | 0%   |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## RIGHT

Mild heterogeneous plaque in the ICA is resulting in 1-29% stenosis.

Normal antegrade vertebral flow.

Large calibre proximal segment of subclavian artery noted measuring:

1.1 cm origin

1.4 cm proximal

1.1 cm mid

0.9 cm distal

Distal brachiocephalic artery measures ~1.2cm.

## LEFT

Mild heterogeneous plaque in the ICA is resulting in 1-29% stenosis.

Normal antegrade vertebral flow.

| RIGHT            |        |        | DATA                                | LEFT             |       |        |
|------------------|--------|--------|-------------------------------------|------------------|-------|--------|
| ICA              | ECA    | CCA    |                                     | ICA              | ECA   | CCA    |
| 66/24            | 125/22 | 104/27 | PSV / EDV (cm/sec)                  | 51/19            | 92/19 | 104/29 |
| Type 3<br>Smooth | -      | -      | <sup>1</sup> Plaque Characteristics | Type 3<br>Smooth | -     | -      |
| 1-29%            | 0%     | 0%     | <sup>2</sup> PERCENTAGE<br>STENOSIS | 1-29%            | 0%    | 0%     |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## BILATERALLY

Mild heterogeneous plaque in the distal CCA and ICA origin is resulting in 1-29% stenosis.

Normal antegrade vertebral flow.

| RIGHT            |      |                  | DATA                                | LEFT             |      |                  |
|------------------|------|------------------|-------------------------------------|------------------|------|------------------|
| ICA              | ECA  | CCA              |                                     | ICA              | ECA  | CCA              |
| 42/8             | 58/3 | 61/9             | PSV / EDV (cm/sec)                  | 52/15            | 61/3 | 56/9             |
| Type 3<br>Smooth | -    | Type 3<br>Smooth | <sup>1</sup> Plaque Characteristics | Type 3<br>Smooth | -    | Type 3<br>Smooth |
| 1-29%            | 0%   | 1-29%            | <sup>2</sup> PERCENTAGE<br>STENOSIS | 1-29%            | 0%   | 1-29%            |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

### <sup>2</sup> Percentage Stenosis : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## RIGHT

Mild heterogeneous plaque in the CCA and ICA is resulting in 1-29% stenosis.

Normal antegrade vertebral flow.

## LEFT

Mild heterogeneous plaque in the ICA is resulting in 1-29% stenosis.

Tortuous proximal/mid CCA noted.

Normal antegrade vertebral flow.

| RIGHT            |      |                  | DATA                                | LEFT             |       |       |
|------------------|------|------------------|-------------------------------------|------------------|-------|-------|
| ICA              | ECA  | CCA              |                                     | ICA              | ECA   | CCA   |
| 54/11            | 77/2 | 83/8             | PSV / EDV (cm/sec)                  | 87/21            | 100/5 | 88/12 |
| Type 3<br>Smooth | -    | Type 3<br>Smooth | <sup>1</sup> Plaque Characteristics | Type 3<br>Smooth | -     | -     |
| 1-29%            | 0%   | 1-29%            | <sup>2</sup> PERCENTAGE<br>STENOSIS | 1-29%            | 0%    | 0%    |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## RIGHT

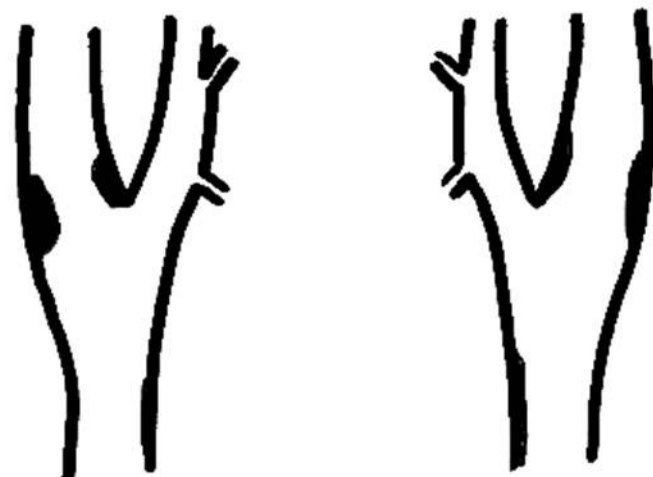
Dense calcified plaque in the distal CCA and ICA origin is resulting in 30-49% stenosis: please note absolute velocities in the ICA indicate >50% stenosis, however velocities are generally high in the extracranial carotid arteries and velocity ratios do not suggest a haemodynamically significant stenosis. B-mode and colour imaging are also suggestive of 30-49% stenosis.

Normal antegrade vertebral flow.

## LEFT

Dense calcified plaque in the distal CCA and ICA origin is resulting in 1-29% stenosis.

Normal antegrade vertebral flow.



| RIGHT         |        |               | DATA                                | LEFT          |        |               |
|---------------|--------|---------------|-------------------------------------|---------------|--------|---------------|
| ICA           | ECA    | CCA           |                                     | ICA           | ECA    | CCA           |
| 150/31        | 148/11 | 115/20        | PSV / EDV (cm/sec)                  | 106/19        | 145/17 | 112/17        |
| Type 4 Smooth | -      | Type 4 Smooth | <sup>1</sup> Plaque Characteristics | Type 4 Smooth | -      | Type 4 Smooth |
| 30-49%        | 0%     | 1-29%         | <sup>2</sup> PERCENTAGE STENOSIS    | 1-29%         | 0%     | 1-29%         |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## RIGHT

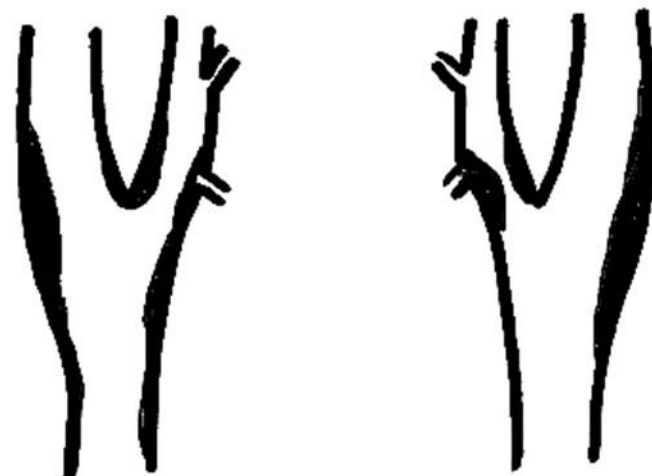
Heterogeneous plaque in the CCA and ICA is resulting in 30-49% stenosis.  
>50% stenosis in the ECA.

Normal antegrade vertebral flow.

## LEFT

Heterogeneous plaque in the CCA, ICA and ECA is resulting in 30-49% stenosis.

Normal antegrade vertebral flow.



| RIGHT            |                     |                  | DATA                                | LEFT             |                  |                  |
|------------------|---------------------|------------------|-------------------------------------|------------------|------------------|------------------|
| ICA              | ECA                 | CCA              |                                     | ICA              | ECA              | CCA              |
| 103/15           | 183/32              | 38/7             | PSV / EDV (cm/sec)                  | 88/20            | 123/15           | 61/11            |
| Type 4<br>Smooth | Type 4<br>Irregular | Type 4<br>Smooth | <sup>1</sup> Plaque Characteristics | Type 4<br>Smooth | Type 4<br>Smooth | Type 2<br>Smooth |
| 30-49%           | >50%                | 1-29%            | <sup>2</sup> PERCENTAGE<br>STENOSIS | 30-49%           | 30-49%           | 30-49%           |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## RIGHT

Heterogeneous plaque in the CCA, ICA and ECA is resulting 1-29% stenosis.

Normal antegrade vertebral flow.

## LEFT

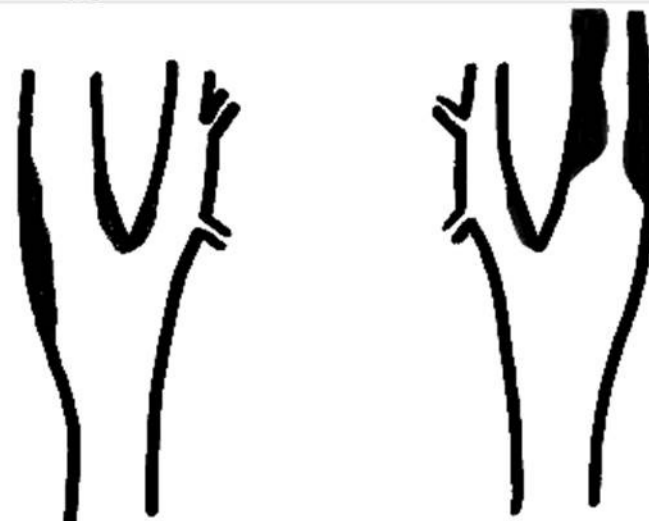
Homogenous plaque in the ICA is resulting in 70-89% stenosis.

The stenosis is ~2cm from the origin.

ICA is patent distally, however homogenous plaque is resulting in a reduced calibre lumen.

Normal level CCA bifurcation noted.

Normal antegrade vertebral flow.



| RIGHT            |                  |                | DATA                                | LEFT             |                  |                  |
|------------------|------------------|----------------|-------------------------------------|------------------|------------------|------------------|
| ICA              | ECA              | CCA            |                                     | ICA              | ECA              | CCA              |
| 114/50           | 156/29           | 105/36         | PSV / EDV (cm/sec)                  | 292/140          | 99/20            | 95/18            |
| Type 3<br>Smooth | Type 3<br>Smooth | Type<br>Smooth | <sup>1</sup> Plaque Characteristics | Type 2<br>Smooth | Type 2<br>Smooth | Type 2<br>Smooth |
| 1-29%            | 1-29%            | 1-29%          | <sup>2</sup> PERCENTAGE<br>STENOSIS | 70-89%           | 1-29%            | 1-29%            |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;

Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% ; > 90% ; Near occlusion ; Occlusion

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## BILATERALLY

Mild heterogeneous plaque in the CCA, ICA and ECA is resulting in 1-29% stenosis.

Normal antegrade vertebral flow.

| RIGHT            |                  |                  | DATA                                | LEFT             |                  |                  |
|------------------|------------------|------------------|-------------------------------------|------------------|------------------|------------------|
| ICA              | ECA              | CCA              |                                     | ICA              | ECA              | CCA              |
| 43/10            | 84/5             | 52/9             | PSV / EDV (cm/sec)                  | 56/14            | 82/8             | 52/7             |
| Type 3<br>Smooth | Type 3<br>Smooth | Type 3<br>Smooth | <sup>1</sup> Plaque Characteristics | Type 3<br>Smooth | Type 3<br>Smooth | Type 3<br>Smooth |
| 1-29%            | 1-29%            | 1-29%            | <sup>2</sup> PERCENTAGE<br>STENOSIS | 1-29%            | 1-29%            | 1-29%            |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;  
Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## BILATERALLY

No evidence of stenosis in the extracranial carotid tree.

Normal antegrade vertebral flow.

| RIGHT |       |       | DATA                                | LEFT  |       |       |
|-------|-------|-------|-------------------------------------|-------|-------|-------|
| ICA   | ECA   | CCA   |                                     | ICA   | ECA   | CCA   |
| 46/22 | 65/14 | 94/22 | PSV / EDV (cm/sec)                  | 39/13 | 74/15 | 80/24 |
| -     | -     | -     | <sup>1</sup> Plaque Characteristics | -     | -     | -     |
| 0%    | 0%    | 0%    | <sup>2</sup> PERCENTAGE STENOSIS    | 0%    | 0%    | 0%    |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;  
Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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## BILATEALLY

No evidence of stenosis in the extracranial carotid tree.

Normal antegrade vertebral flow.

| RIGHT |       |       | DATA                                | LEFT  |       |       |
|-------|-------|-------|-------------------------------------|-------|-------|-------|
| ICA   | ECA   | CCA   |                                     | ICA   | ECA   | CCA   |
| 69/24 | 81/17 | 72/22 | PSV / EDV (cm/sec)                  | 65/23 | 61/12 | 77/23 |
| -     | -     | -     | <sup>1</sup> Plaque Characteristics | -     | -     | -     |
| 0%    | 0%    | 0%    | <sup>2</sup> PERCENTAGE STENOSIS    | 0%    | 0%    | 0%    |

### <sup>1</sup> Plaque Characteristics :

**Composition** : Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic;  
Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface** : Smooth ; Irregular ; Ulcerated

<sup>2</sup> **Percentage Stenosis** : 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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**Bilaterally:**

No evidence of stenosis in the extracranial carotid tree.

Normal antegrade vertebral flow.

| RIGHT |      |       | DATA                                | LEFT  |      |       |
|-------|------|-------|-------------------------------------|-------|------|-------|
| ICA   | ECA  | CCA   |                                     | ICA   | ECA  | CCA   |
| 39/12 | 88/6 | 84/12 | PSV / EDV (cm/sec)                  | 59/17 | 57/5 | 56/12 |
| -     | -    | -     | <sup>1</sup> Plaque Characteristics | -     | -    | -     |
| 0%    | 0%   | 0%    | <sup>2</sup> PERCENTAGE STENOSIS    | 0%    | 0%   | 0%    |

**<sup>1</sup> Plaque Characteristics :**

**Composition :** Type 1 = Echolucent; Type 2 = Predominantly Echolucent; Type 3 = Predominantly Echogenic; Type 4 = Echogenic; Type 5 = Unclassified due to calcification or poor visualisation.

**Surface :** Smooth ; Irregular ; Ulcerated

**<sup>2</sup> Percentage Stenosis :** 0% ; 1 - 29% ; 30 - 49% ; 50 - 69% ; 70-89% , > 90% ; Near occlusion ; Occlusion

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