## Patient Information

1. \*Study ID Number:
2. \*Date and time of study (M M/D D/Y Y Y Y):

(HH:MM, 24 hr clock):

1. NIH Stroke Scale (NIHSS) at time of study (0-42):[[1]](#footnote-1)
2. Scan Purpose (Select all that apply):

Diagnostic

Post-treatment

Monitoring

## Technical Information

1. Probe:
   1. Type:
   2. Frequency (Hz):
2. Patient type:
   1. Asymptomatic
   2. Acute Stroke

If Acute Stroke, indicate study type:

Initial

Follow-up 1

Follow-up 2

* 1. Chronic Stroke

1. Interpretation site:
   1. Onsite
   2. Offsite

If Offsite, indicate type:

Video

Print

Digital

1. Contrast Agent:

Yes

No (Skip to 5)

* 1. Agent:
  2. Type:

Bolus

Infusion

Other, specify:

1. Read type (Select all that apply):

Local read

Local report

Central read

1. Reader blinded to clinical data:

Yes

No

1. Study technically satisfactory:

Yes

No

## Findings

1. B-mode:
   1. CCA

1 Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Finding | Normal (Skip to B)  Plaque | Normal (Skip to B)  Plaque |
| \*Echo pattern | Homogeneous  Heterogeneous | Homogeneous  Heterogeneous |
| \*Surface | Smooth  Irregular | Smooth  Irregular |
| \*Severity of plaque | Mild  Moderate  Severe | Mild  Moderate  Severe |
| Texture of plaque | :Data to be entered by site | : Data to be entered by site |
| Composition of plaque | : Data to be entered by site | : Data to be entered by site |
| Motion of plaque | : Data to be entered by site | : Data to be entered by site |

* 1. ICA

2 Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Finding | Normal (Skip to C)  Plaque | Normal (Skip to B)  Plaque |
| \*Echo pattern | Homogeneous  Heterogeneous | Homogeneous  Heterogeneous |
| \*Surface | Smooth  Irregular | Smooth  Irregular |
| Texture of plaque | Data to be entered by site | Data to be entered by site |
| Composition of plaque | Data to be entered by site | Data to be entered by site |
| Motion of plaque | Data to be entered by site | Data to be entered by site |
| Residual lumen | Data to be entered by site | Data to be entered by site |
| Thickness of plaque | Data to be entered by site | Data to be entered by site |

* 1. ECA

3: Findings Table

| Side | Right | Left |
| --- | --- | --- |
| \*Finding | Normal (Skip to 2)  Plaque | Normal (Skip to B)  Plaque |
| \*Echo pattern | Homogeneous  Heterogeneous | Homogeneous  Heterogeneous |
| \*Surface | Smooth  Irregular | Smooth  Irregular |
| Texture of plaque | Data to be entered by site | Data to be entered by site |
| Composition of plaque | Data to be entered by site | Data to be entered by site |
| Motion of plaque | Data to be entered by site | Data to be entered by site |
| Residual lumen | Data to be entered by site | Data to be entered by site |
| Thickness of plaque | Data to be entered by site | Data to be entered by site |

1. Color flow:
   1. CCA

4 Color flow Table

| Side | Right | Left |
| --- | --- | --- |
| \*Angle | (degrees): | (degrees): |
| \*Peak velocity | (cm/sec): | (cm/sec): |
| \*End diastolic velocity | (cm/sec): | (cm/sec): |
| \*No signal? | Yes  No | Yes  No |
| \*% Stenosis criterion | PSV  PSV/EDV  Other, specify: | PSV  PSV/EDV  Other, specify: |
| \*% Stenosis | (%): | (%): |
| Volume flow rate {CDE# C13920} | (ml/m): | (ml/m): |
| Other findings | Turbulence  Spectral broadening | Turbulence  Spectral broadening |

* 1. ICA

5 Color flow Table

| Side | Right | Left |
| --- | --- | --- |
| \*Angle | (degrees): | (degrees): |
| \*Peak velocity | (cm/sec): | (cm/sec): |
| \*End diastolic velocity | (cm/sec): | (cm/sec): |
| \*No signal? | Yes  No | Yes  No |
| \*% Stenosis criterion | PSV  PSV/EDV  Other, specify: | PSV  PSV/EDV  Other, specify: |
| \*% Stenosis | (%): | (%): |
| CCA externalization | Yes  No | Yes  No |
| Power Doppler | Flow  No flow | Flow  No flow |
| Other findings | Turbulence  Spectral broadening | Turbulence  Spectral broadening |

* 1. ECA

6 Color flow Table

| Side | Right | Left |
| --- | --- | --- |
| \*Angle | (degrees): | (degrees): |
| \*Peak velocity | (cm/sec): | (cm/sec): |
| \*End diastolic velocity | (cm/sec): | (cm/sec): |
| \*No signal? | Yes  No | Yes  No |
| \*% Stenosis criterion | PSV  PSV/EDV  Other, specify: | PSV  PSV/EDV  Other, specify: |
| \*% Stenosis | (%): | (%): |
| Other findings | Turbulence  Spectral broadening | Turbulence  Spectral broadening |

* 1. Vertebral – origin:

Normal

Stenosis

Occluded

* 1. Vertebral – interosseous:

Normal

Stenosis

Occluded

1. Intima Media Thickness (IMT):
   1. B-mode:

Yes

No

* 1. B-mode guided M mode:

Yes

No

* 1. Electronic caliper:

Yes

No

* 1. Edge detection algorithm:

Yes, type:

No (Skip to 5)

* 1. Timing:

ECG Gating

End Diastolic

Peak Systolic

* 1. Findings:
     1. Mean and Max IMT:

7 Mean and Max IMT Table

| Artery and side | Mean IMT Near-wall | Mean IMT Far-wall | Max IMT Near-wall | Max IMT Far-wall |
| --- | --- | --- | --- | --- |
| CCA – right | (mm): | (mm): | (mm): | (mm): |
| CCA – left | (mm): | (mm): | (mm): | (mm): |
| Bulb – right | (mm): | (mm): | (mm): | (mm): |
| Bulb – left | (mm): | (mm): | (mm): | (mm): |
| ICA – right | (mm): | (mm): | (mm): | (mm): |
| ICA – left | (mm): | (mm): | (mm): | (mm): |

* + 1. Diameters:

8 Diameters Table

| Artery and side | Mean IMT Near-wall | Mean IMT Far-wall | Max IMT Near-wall | Max IMT Far-wall |
| --- | --- | --- | --- | --- |
| CCA – right | (mm): | (mm): | (mm): | (mm): |
| CCA – left | (mm): | (mm): | (mm): | (mm): |

\* Recommended as a Core Stroke CDE if protocol includes imaging

## General Instructions

This CRF contains data that would be collected when an imaging study is performed using carotid ultrasound to examine the two large arteries in the neck. There are separate sections to record findings from B-mode and color flow imaging.

Important note: A subset of the data elements included on this CRF Module is considered Core (i.e., strongly recommended for stroke clinical studies to collect if imaging studies are performed). The remaining data elements (i.e., non Core) are supplemental and should only be collected if the research team considers them appropriate for their study.

### Specific Instructions

Please see the Data Dictionary for definitions for each of the data elements included in this CRF Module. There is actually a single Data Dictionary for all of the imaging CDEs as the six different CRF Modules for stroke imaging share many elements.

The CRF includes all instructions available for the data elements at this time. More detailed instructions will be added in Version 3.0 of this CRF Module.

1. NIHSS is also included on other Stroke CDE CRF Modules. This item should be pre-populated if initially collected elsewhere so as to avoid redundant data points. [↑](#footnote-ref-1)