

SCOTTISH STROKE CARE AUDIT

CAROTID INTERVENTION CORE DATASET

DEFINITIONS AND VALUES

Version 5.0 Updated October 2013

(For review October 2015)

(For patients referred via the stroke team, this form would be completed in addition to the inpatient/ outpatient form only for those patients who have undergone a carotid intervention procedure therefore all demographics etc. already entered.)

For patients referred directly to the vascular surgeons, this form would be completed in isolation. If this form is being completed in isolation, demographic data will need to be completed.

DATA ITEMS (31 excluding demographics)	DEFINITIONS	VALUES (Information required on proforma or options available on eSSCA)
Demographics		
CHI Number	Mandatory identifier. Community Health Index Number giving the patient a unique, national, reference number (10 characters).	Enter 10 characters <i>Consisting of the 6-digit date of birth (DDMMYY), two digits, a 9th digit which is always even for females and odd for males and an arithmetical check digit.</i> If the patient has not been assigned a CHI then enter the date of birth (DDMMYY) and 0000 as the CHI, e.g. if the patient's DOB is 12.08.1954 you would enter 120854000. If the patient's CHI is allocated later you can go back into the Patient demographics and change the CHI.
Date of Birth	Record the date the patient was born or officially deemed to have been born as recorded on the Birth Certificate.	Enter 8 characters (DD/MM/CCYY) <i>NB: you must have a date of birth in order to create a patient, this field will not accept 'not recorded', 'unknown' etc.</i>
Gender	Record gender from drop down pick list. A statement by the individual about the gender they currently identify themselves to be (i.e. self-assigned).	Enter male, female or not known
Surname	"The surname of a person represents that part of the name of a person which indicates the family group of which the person is part." (From the Core Patient Profile Information in Scottish Hospitals (COPPISH) SMR Data Manual Version 1.1; issued November 1995 p2-5)	Enter surname eSSCA automatically capitalises the surname.
Forename	"The first forename of a person represents that part of the name of a person which, after the surname, is the principal identifier of a person." (From the COPPISH SMR Data Manual version 1.1; issued November 1995 p2-6) When recording names be aware of different conventions for order for parts of the name used in different cultures.	Enter forename eSSCA automatically capitalises the forename.

DATA ITEMS <i>(31 excluding demographics)</i>	DEFINITIONS	VALUES <i>(Information required on proforma or options available on eSSCA)</i>
Patient Postcode	<p>Record complete postcode of patient's normal permanent place of residence, e.g. home, nursing home, NHS continuing care etc. at time of current cerebrovascular event.</p> <p>If the patient is already in hospital for temporary short term care their normal permanent place of residence postcode should be used and not that of the hospital where they are temporarily an inpatient.</p> <p>If the patient does not have a UK postcode select code from drop down pick list (COPPISH codes).</p>	<p>Patients <u>with</u> UK postcode – enter full postcode (up to 8 digits). The system will capitalise the letters automatically.</p> <p>Patients <u>without</u> UK postcode – enter appropriate code from list below:</p> <p><i>NK010AA - Address not known</i> <i>NF11AB - No fixed abode</i> <i>OS14AA - Overseas visitor from EIRE</i> <i>OS16AA - Overseas visitor from The Commonwealth</i> <i>OS17AA - Overseas visitor from British Dependent Territory</i> <i>OS18AA - Overseas visitor from Other Foreign Country</i></p>
Ethnicity	<p>Record the patient's ethnic origin - a statement made by the service user re their current ethnic group.</p> <p>From the COPPISH data manual.</p> <p>All boards have a requirement to collect ethnicity data routinely.</p> <p>If ethnicity is not clearly documented in the patient's notes, enter 'not known'.</p> <p><i>NB: The ethnicity coding list held within eSSCA is updated automatically and the SSCA central team have no control over this. The list presented in this document is correct at 23.10.2013.</i></p>	<p>Pick list: enter either:</p> <p>African, African Scottish or African British Any mixed or multiple ethnic groups Any other white ethnic group Arab, Arab Scottish or Arab British Bangladeshi, Bangladeshi Scottish or Bangladeshi British Black, Black Scottish or Black British Caribbean, Caribbean Scottish or Caribbean British Chinese, Chinese Scottish or Chinese British Gypsy/ Traveller Indian, Indian Scottish or Indian British Irish Not known Not recorded Other African Other Asian, Asian Scottish or Asian British Other British Other Caribbean or Black Other ethnic group Pakistani, Pakistani Scottish or Pakistani British Polish Refused/ Not provided by patient Scottish</p>

DATA ITEMS (31 excluding demographics)	DEFINITIONS	VALUES (Information required on proforma or options available on eSSCA)
GP Practice	<p>Record GP practice name/ address - selecting the GP practice using the search facility in eSSCA will automatically populated the GP Practice field. GP practice is defined as – GP/ practice patient registered with at time of current cerebrovascular event. (Information stored will include GP name, address, practice code, branch code (if appropriate) and GMC number)</p> <p>If the patient's <u>GP is from out with Scotland</u> enter the GPs name and address in the text fields available. (Information stored will be name and address only)</p> <p>If the patient's GP is not known or they are not registered with a GP, or they are from out with the UK enter the appropriate text.</p>	<p>Drop down pick list <u>Scottish GP Practices</u> – Search facility – search using key words or preferably GP practice code if that is known. One or more GP practices will appear. Click on the appropriate practice, this will automatically populate the GP practice field.</p> <p><u>Non-Scottish GP</u> - enter the GPs name and address in the appropriate text fields.</p>
GP Name	<p>Select the GP's name from a pre-populated list. If the GP Name is not on the list, select Other and enter the GP Name in the text field. <i>NB: You must select GP Practice before selecting the GP Name.</i></p>	<p>Drop down pick list. This list is pre-populated with all GPs at the selected GP Practice. If the GP Name is not on the list, select Other and enter the GP Name in the text field.</p>
Other GP Practice	<p>If the patient's <u>GP is from out with Scotland</u> enter the GP Practice name and address.</p>	<p>Text field enter the GP Practice Name and address</p>
Other GP	<p>If the patient's <u>GP is from out with Scotland</u> enter the GP name.</p>	<p>Text field: enter the GP's name.</p>
Intervention		
1. Date of carotid intervention	<p>Record the date of the carotid intervention</p>	<p>Enter date (DD/MM/CCYY)</p> <p>Enter 8 characters (DDMMCCYY) You do not need to enter the "/" If date is not recorded then enter 07/07/0707. If date is unknown then enter 08/08/0808. If the date is illegible then enter 09/09/0909.</p>
2. Side of carotid intervention	<p>Record the side of the intervention from drop down pick list.</p>	<p>Drop down pick list <i>Left, Right, Not Recorded, Unknown, Ambiguous/Illegible</i></p>
3. Type of carotid intervention	<p>Record the type of carotid intervention undertaken from drop down pick list of available interventions.</p>	<p>Drop down pick list <i>Carotid endarterectomy, angioplasty with stent, angioplasty without stent, Not Recorded, Unknown, Ambiguous/Illegible, Other (specifying other)</i></p>
4a. Responsible interventionist: Name	<p>Record the name of the interventionist who was the most senior doctor responsible, who either performed or supervised the intervention. This doctor agreed to go ahead whether they initially assessed the patient or not.</p>	<p>Drop down pick list of responsible interventionist. The list will be sorted by Health Board with the User's Health Board at the top of the list. Retired/inactive interventionist names are prefixed with an * and included at the bottom of the list. (NB: Please contact the Central Team if you require a interventionist to be added or taken off this list)</p>

DATA ITEMS (31 excluding demographics)	DEFINITIONS	VALUES (Information required on proforma or options available on eSSCA)
4b. Responsible interventionist: Location	Record the hospital where the named interventionist performed the intervention.	Drop down pick list of hospitals from a SCA Reference File. Hospitals from the User's Health Board should be at the top of the list. (NB: Please contact the Central Team if you require a hospital to be added or taken off this list)
4c. Responsible interventionist: Speciality	Record the Speciality of the named interventionist.	Drop down pick list of specialties <i>Surgeon, radiologist, cardiologist, Not Recorded, Unknown, Ambiguous/Illegible</i> (Information stored would be GMC number, specialty and location)
Referral source for carotid intervention		
5a. Referral source for carotid intervention: Name	Record the name of the person who referred the patient for carotid intervention. <i>NB: The referral source is the person who made the last referral in the pathway, the one to the interventionist. This question is not about the original referral to the specialist, though where a GP refers direct to interventionist that will be the referral required.</i>	Data field 1 – Name Enter the name of the referrer in a text field
5b. Referral source for carotid intervention: Health Board	Record the Health Board of the person who referred the patient for carotid intervention. <i>NB: The referral source is the person who made the last referral in the pathway, the one to the interventionist. This question is not about the original referral to the specialist, though where a GP refers direct to interventionist that will be the referral required.</i>	Drop down list of health boards: Sorted by Health Board including Not recorded, Unknown, Ambiguous/illegible
5c. Referral source for carotid intervention: Specialty	Record the speciality of the person who referred the patient for carotid intervention. <i>NB: The referral source is the person who made the last referral in the pathway, the one to the interventionist. This question is not about the original referral to the specialist, though where a GP refers direct to interventionist that will be the referral required.</i>	Drop down pick list of specialties <i>General practitioner (GP), stroke consultant, neurologist, cardiologist, cardiac surgeon, ophthalmologist, other hospital physician, Not recorded, Unknown, Ambiguous/illegible, Other (specifying other)</i>
5d. Referral source for carotid intervention: Source	Record the Source of the referral of the patient for carotid intervention. <i>NB: The referral source is the person who made the last referral in the pathway, the one to the interventionist. This question is not about the original referral to the specialist, though where a GP refers direct to interventionist that will be the referral required.</i>	Drop down pick list of sources <i>Neurovascular (NV) clinic (outpatient), stroke ward or unit (inpatient), primary care, ophthalmologist, other secondary care, not recorded, unknown, ambiguous/illegible, Other (specifying other)</i>
6. Date of first assessment by referrer	Record the date the patient was first seen by the referrer.	Enter date (DD/MM/CCYY) Enter 8 characters (DDMMCCYY) You do not need to enter the "/" If date is not recorded then enter 07/07/0707. If date is unknown then enter 08/08/0808. If the date is illegible then enter 09/09/0909.

DATA ITEMS (31 excluding demographics)	DEFINITIONS	VALUES (Information required on proforma or options available on eSSCA)
7. Date referred for carotid intervention	Record the date the patient was referred for carotid intervention by any referrer	Enter date (DD/MM/CCYY) Enter 8 characters (DDMMCCYY) You do not need to enter the "/" If date is not recorded then enter 07/07/0707. If date is unknown then enter 08/08/0808. If the date is illegible then enter 09/09/0909.
8. Date first seen by interventionist	Record the date the patient was first seen by the interventionist <i>NB:</i> - These may include at clinic, ward consultations/ theatre with no letter, information may be found in the patients records or the surgeons casebook - The interventionist first seen may not be the interventionist who ultimately performs or supervises the surgery	Enter date (DD/MM/CCYY) Enter 8 characters (DDMMCCYY) You do not need to enter the "/" If date is not recorded then enter 07/07/0707. If date is unknown then enter 08/08/0808. If the date is illegible then enter 09/09/0909.
History		
9. Did the patient have a TIA/ stroke/ ocular event in the 6 months prior to carotid intervention?	Record yes if there is documented evidence that the patient had a TIA/ stroke/ ocular event in the 6 months prior to carotid intervention	Enter Yes, No, Not recorded, Unknown, Ambiguous/ illegible.
10. Date of carotid territory TIA/ stroke/ monocular event that led to the patient first seeking medical assistance	Record the date of the carotid territory TIA/ stroke/ monocular event that led to the patient first seeking medical assistance. <i>NB: This would be considered the 'index' event.</i>	Enter date (DD/MM/CCYY) Enter 8 characters (DDMMCCYY) You do not need to enter the "/" If date is not recorded then enter 07/07/0707. If date is unknown then enter 08/08/0808. If the date is illegible then enter 09/09/0909.
11. Date of <u>most recent recorded</u> carotid territory TIA/ stroke/ monocular event prior to carotid intervention	Record the date of the most recent recorded event recorded prior to the patient having carotid intervention <i>NB: This may be the same date as the event that led to the patient first seeking medical assistance or patients may have one or more events whilst waiting for carotid intervention</i>	Enter date (DD/MM/CCYY) Enter 8 characters (DDMMCCYY) You do not need to enter the "/" If date is not recorded then enter 07/07/0707. If date is unknown then enter 08/08/0808. If the date is illegible then enter 09/09/0909.
Carotid Imaging 1–		
12. Method of imaging used for assessment	Select the method used for assessment from the list of available options. If there is more than one measurement of stenosis recorded, document the method used when the <u>most severe</u> stenosis was recorded, i.e. higher % stenosis or peak velocity or deduced from words such as severe, significant, tight or critical. <i>NB: Always enter the method used to record percentage in preference to either <u>velocity or description</u> if they have more than one type of result recorded.</i>	Drop down pick list: <i>Carotid duplex / Magnetic resonance angiography (MRA) – time of flight / MRA gadolinium enhanced / MRA type not stated / MRA type unclear / Computerised tomographic angiography (CTA) / Conventional angiography / Selected carotid angiography / Arch angiography / Not Recorded / Unknown / Ambiguous/Illegible</i>

DATA ITEMS <i>(31 excluding demographics)</i>	DEFINITIONS	VALUES <i>(Information required on proforma or options available on eSSCA)</i>
13. Date <u>first</u> carotid imaging was performed	Record the date the <u>first</u> carotid imaging was performed.	Enter date <i>(DD/MM/CCYY)</i> Enter 8 characters (DDMMCCYY) You do not need to enter the “/” If date is not recorded then enter 07/07/0707. If date is unknown then enter 08/08/0808. If the date is illegible then enter 09/09/0909.
Discharge		
14. Final date of discharge from inpatient care following carotid intervention	Record the final date of discharge from active stroke care following carotid intervention using the same definition as in the inpatient dataset, i.e. Record the ‘discharge’ date at the end of all care for that stroke event. This will include acute care and any period of stroke rehabilitation including that undertaken in a general rehabilitation unit. <i>If the patient is being transferred for NHS continuing care or transferred to a ‘boarding bed’ whilst awaiting discharge, the date of transfer should be used as the discharge date.</i> <i>(NHS continuing care is defined as ‘it is no longer expected that the patient will be discharged home’).</i> <i>If the patient has another acute episode with overriding diagnosis the date of discharge would be the date of that event, e.g. the patient has a myocardial infarction and is transferred to the coronary care unit or CT scan shows a tumour rather than stroke is the cause of the symptoms.</i> <i>If the patient dies, the date discharged from stroke care will be the date of death.</i>	Enter date <i>(DD/MM/CCYY)</i> Enter 8 characters (DDMMCCYY) You do not need to enter the “/” If date is not recorded then enter 07/07/0707. If date is unknown then enter 08/08/0808. If the date is illegible then enter 09/09/0909.
15. Where was the patient being cared for at date of discharge?	Record where the patient was being cared for at date of discharge from in patient care.	Drop down pick list: <i>Acute Stroke Unit / Integrated Stroke Unit / Stroke Rehabilitation Unit / Generic Rehabilitation Unit / Vascular Surgery Ward / Other Surgical Specialty Ward / General Surgical Ward / General Medical Ward / Medicine of the Elderly / Other (specifying other), Not recorded, Unknown, Ambiguous/ Illegible</i>

DATA ITEMS (31 excluding demographics)	DEFINITIONS	VALUES (Information required on proforma or options available on eSSCA)
Optional information		
16. Do you want to complete the remainder of this form?	Enter Yes if you want to continue to complete the remainder of the form otherwise enter No and the remainder of the form will be greyed out,	Drop down pick list Yes, No
Carotid Imaging 2 Most severe/ significant ICA stenosis result noted on imaging: <u>Questions 17 and 18</u> – Enter information relating to the most <u>severe</u> stenosis recorded, right and/ or left.		
17. Type of stenosis - Left result	Select the method of recording the stenosis result on the left side. If there is more than one measurement of stenosis recorded, document the method of recording of the <u>most severe</u> stenosis. <i>NB: Always use the <u>percentage in preference to either velocity or description</u> if they have more than one type of result recorded.</i>	Drop down pick list <i>Percentage (a), Percentage range (a) and (b), Velocity (c), Not recorded, Unknown, Ambiguous/illegible</i>
17a. ICA stenosis result on imaging - Left Percentage – low or only reading	If Percentage or Percentage range is selected at question 17 enter the percentage recorded. If a single percentage is given enter it in this field. If a range is given enter the lower end of the range in this field. If there is more than one measurement of stenosis recorded, document the <u>most severe</u> stenosis recorded. <i>NB: Always use the <u>percentage in preference to either velocity or description</u> if they have more than one type of result recorded.</i>	Enter a value between 0 and 100.
17b. ICA stenosis result on imaging - Left Percentage – High reading	If Percentage or Percentage range is selected at question 17 enter the percentage recorded. Enter the higher end of the range of the percentage in this field. If there is more than one measurement of stenosis recorded, document the <u>most severe</u> stenosis recorded. <i>NB: Always use the <u>percentage in preference to either velocity or description</u> if they have more than one type of result recorded.</i>	Enter a value between 0 and 100.

DATA ITEMS <i>(31 excluding demographics)</i>	DEFINITIONS	VALUES <i>(Information required on proforma or options available on eSSCA)</i>
17c. ICA stenosis result on imaging - Left Velocity	If Velocity is selected at question 17 enter the velocity reading in this field. (reading must be between 0 and 999) If there is more than one measurement of stenosis recorded, document the <u>most severe</u> stenosis recorded. <i>NB: Always use the <u>percentage in preference to either velocity or description</u> if they have more than one type of result recorded.</i>	Enter a value between 0 and 999.
17d. ICA stenosis result on imaging - Left Description	Select the description recorded of the left stenosis imaging. If there is more than one measurement of stenosis recorded, document the <u>most severe</u> stenosis recorded. <i>NB: Always use the <u>percentage in preference to either velocity or description</u> if they have more than one type of result recorded.</i>	Drop down pick list <i>Mild, Moderate, Severe, Occluded, Significant, Critical, Indeterminate, Insignificant, None, Not recorded, Unknown, Ambiguous/illegible, Other (specifying other)</i>
18. Type of Stenosis Right result	Select the method of recording the stenosis result on the right side. If there is more than one measurement of stenosis recorded, document the method of recording of the <u>most severe</u> stenosis. <i>NB: Always use the <u>percentage in preference to either velocity or description</u> if they have more than one type of result recorded.</i>	Drop down pick list <i>Percentage (a), Percentage range (a) and (b), Velocity (c), Not recorded, Unknown, Ambiguous/illegible</i>
18a. ICA stenosis result on imaging - Right Percentage – low or only reading	If Percentage or Percentage range is selected at question 18 enter the percentage recorded. If a single percentage is given enter it in this field. If a range is given enter the lower end of the range in this field. If there is more than one measurement of stenosis recorded, document the <u>most severe</u> stenosis recorded. <i>NB: Always use the <u>percentage in preference to either velocity or description</u> if they have more than one type of result recorded.</i>	Enter a value between 0 and 100.
18b. ICA stenosis result on imaging - Right Percentage – High reading	If Percentage or Percentage range is selected at question 18 enter the percentage recorded. Enter the higher end of the range of the percentage in this field. If there is more than one measurement of stenosis recorded, document the <u>most severe</u> stenosis recorded. <i>NB: Always use the <u>percentage in preference to either velocity or description</u> if they have more than one type of result recorded.</i>	Enter a value between 0 and 100.

DATA ITEMS <i>(31 excluding demographics)</i>	DEFINITIONS	VALUES <i>(Information required on proforma or options available on eSSCA)</i>
18c. ICA stenosis result on imaging - Right Velocity	If Velocity is selected at question 18 enter the velocity reading in this field. (reading must be between 0 and 999) If there is more than one measurement of stenosis recorded, document the <u>most severe</u> stenosis recorded. <i>NB: Always use the <u>percentage in preference to either velocity or description</u> if they have more than one type of result recorded.</i>	Enter a value between 0 and 999.
18d. ICA stenosis result on imaging Right Description	Select the description recorded of the left stenosis imaging. If there is more than one measurement of stenosis recorded, document the <u>most severe</u> stenosis recorded. <i>NB: Always use the <u>percentage in preference to either velocity or description</u> if they have more than one type of result recorded.</i>	Drop down pick list <i>Mild, Moderate, Severe, Occluded, Significant, Critical, Indeterminate, Insignificant, None, Not recorded, Unknown, Ambiguous/illegible, Other (specifying other)</i>
19. Method of measurement used for assessment	Select from the list of available options, the method of measurement used for the assessment. If there is more than one measurement of stenosis recorded, document the method of measurement used when the <u>most severe</u> stenosis was recorded. <i>NB: May need to confirm with radiologist what method of measurement is used locally.</i>	Drop down pick list <i>North American Symptomatic Carotid Endarterectomy Trial (NASCET), European Carotid Surgery Trial (ECST), Common Carotid) or not stated</i>
20. Was a confirmatory measurement taken?	Record yes if a confirmatory measurement was taken.	Enter Yes, No, Not recorded, Unknown, Ambiguous/ illegible.
21. Method(s) of imaging used for confirmatory measurement	If a confirmatory measurement was taken, then record yes for the method(s) used for confirmatory measurement from the list of options available. <i>NB. There may be more than one yes – circle all that apply.</i>	Pick all that apply: <i>Carotid duplex / Magnetic resonance angiography (MRA) – time of flight / MRA gadolinium enhanced / MRA type not stated / MRA type unclear / Computerised tomographic angiography (CTA) / Conventional angiography / Selected carotid angiography / Arch angiography</i>
Follow up to intervention		
22. Was the patient reviewed by an interventionist within 4 months of intervention?	Record yes, if there is documented evidence recorded of a review by an interventionist within 4 months of intervention. <i>NB: If this is unclear it may be necessary to check this information with a clinician.</i>	Enter Yes, No, Not recorded, Unknown, Ambiguous/ illegible.
23. Date reviewed by an interventionist?	Record the date the patient was reviewed by an interventionist.	Enter date (DD/MM/CCYY) Enter 8 characters (DDMMCCYY) You do not need to enter the “/” If date is not recorded then enter 07/07/0707. If date is unknown then enter 08/08/0808. If the date is illegible then enter 09/09/0909.

DATA ITEMS (31 excluding demographics)	DEFINITIONS	VALUES (Information required on proforma or options available on eSSCA)
24. Post intervention stroke within 30 days noted by an interventionist?	Record yes if the patient had a stroke noted by an interventionist within 30 days post intervention (symptoms lasting more than 24 hours)	Enter Yes, No, Not recorded, Unknown, Ambiguous/ illegible.
25. Modified Rankin Score at review appointment by interventionist.	Record Modified Rankin Score at interventionist follow-up.	Enter outcome – 0-6 Enter 7 for Not done, Enter 8 for Not recorded Enter 9 for Ambiguous/illegible
26. Was the patient reviewed by an independent medical specialist within 4 months of intervention?	Record yes if there is documented evidence that the patient was reviewed within 4 months of intervention by an independent medical specialist. <i>NB: An 'independent medical specialist' is defined as a medical person other than the interventionist, examples as per specialty pick list below (Q28).</i>	Enter Yes, No, Not recorded, Unknown, Ambiguous/ illegible.
If no, there is no requirement to complete the remainder of this form.		
27. Date reviewed by independent medical specialist?	Record the date the patient was reviewed by the independent medical specialist	Enter date (DD/MM/CCYY) Enter 8 characters (DDMMCCYY) You do not need to enter the "/" If date is not recorded then enter 07/07/0707. If date is unknown then enter 08/08/0808. If the date is illegible then enter 09/09/0909.
28. Specialty?	Record the speciality of the independent medical specialist who reviewed the patient.	Drop down pick list <i>General practitioner (GP), Stroke consultant, Neurologist, Cardiologist, Cardiac surgeon, Ophthalmologist, Other hospital physician, Not recorded, Unknown, Ambiguous/ illegible, Other (specifying other)</i>
29. Method of review?	Record the method of review used by the independent medical specialist.	Drop down pick list <i>Face to face in a clinic, By telephone, Review of medical records only, Not recorded, Unknown, Ambiguous/illegible, Other (specifying other)</i>
30. Post intervention stroke within 30 days noted by an independent medical specialist?	Record yes if the patient had a stroke noted by an independent medical specialist within 30 days post intervention (symptoms lasting more than 24 hours)	Enter Yes, No, Not recorded, Unknown, Ambiguous/ illegible.
31. Modified Rankin Score at review appointment by independent medical specialist.	Record Modified Rankin Score at independent medical specialist follow-up	Enter outcome – 0-6 Enter 7 for Not done, Enter 8 for Not recorded Enter 9 for Ambiguous/illegible