SSNAP Core Dataset 4.0.0

For queries, please contact ssnap@kcl.ac.uk
Webtool for data entry: www.strokeaudit.org

A log of changes made to the SSNAP Core Dataset can be found on page 11 of this document, available here.
Demographics/ Onset/ Arrival *(must be completed by the first hospital)*

1.1. Hospital Number  
1.2. NHS Number  
1.3. Surname  
1.4. Forename  
1.5. Date of birth  
1.6. Gender Male ○ Female ○  
1.7. Postcode of usual address  
1.8. Ethnicity A – Z (select radio button) or Not Known ○  
1.9. What was the diagnosis? Stroke ○ TIA ○ Other ○ *(If TIA or Other please go to relevant section)*  
1.10. Was the patient already an inpatient at the time of stroke? Yes ○ No ○  
1.11. Date/time of onset/awareness of symptoms  
1.11.1. The date given is: Precise ○ Best estimate ○ Stroke during sleep ○  
1.11.2. The time given is: Precise ○ Best estimate ○ Not known ○  
1.12. Did the patient arrive by ambulance? Yes ○ No ○  
If yes:  
1.12.1. Ambulance trust Default ○ Drop-down of all trusts  
1.12.2. Computer Aided Despatch (CAD) / Incident Number  
1.13. Date/ time patient arrived at first hospital  
1.14. Which was the first ward the patient was admitted to at the first hospital? MAU/ AAU/ CDU ○ Stroke Unit ○ ITU/CCU/HDU ○ Other ○  
1.15. Date/time patient first arrived on a stroke unit or Did not stay on stroke unit ○
Casemix/ First 24 hours (if patient is transferred to another setting after 24 hours, this section must be complete)

2.1. Did the patient have any of the following co-morbidities prior to this admission?
2.1.1 Congestive Heart Failure: Yes ☐ No ☐
2.1.2 Hypertension: Yes ☐ No ☐
2.1.3 Atrial fibrillation: Yes ☐ No ☐
2.1.4 Diabetes: Yes ☐ No ☐
2.1.5 Stroke/TIA: Yes ☐ No ☐

2.1.6 If 2.1.3 is yes, was the patient on antiplatelet medication prior to admission? Yes ☐ No ☐ No but ☐
2.1.7 Was the patient on anticoagulant medication prior to admission? Yes ☐ No ☐ No but ☐
2.1.7(a) What anticoagulant was the patient prescribed before their stroke?
- Vitamin K antagonists (includes Warfarin) ☐
- DOAC ☐
- Heparin ☐

2.1.7(b) What was the patient’s International Normalised ratio (INR) on arrival at hospital (if inpatient, INR at the time of stroke onset)?
- Allowable values (0.0 – 10.0) [0.0]
- INR not checked ☐
- Greater than 10 ☐

2.1.8 Was a new diagnosis of AF made on admission? Yes ☐ No ☐

2.2. What was the patient’s modified Rankin Scale score before this stroke? 0 - 5

2.3. What was the patient’s NIHSS score on arrival? [Automated calculation of total score]

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<td>2.3.15 Extinction and Inattention</td>
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2.4. Date and time of first brain imaging after stroke or Not imaged ☐

2.5. What was the type of stroke? Infarction ☐ Primary Intracerebral Haemorrhage ☐

2.6. Was the patient given thrombolysis? Yes ☐ No ☐ No but ☐ (auto-selected if 2.5=PIH)
2.6.1 If no, what was the reason:
- Thrombolysis not available at hospital at all
- Outside thrombolysis service hours
- Unable to scan quickly enough
- Other

2.6.2 If no but, please select the reasons:
- Haemorrhagic stroke (auto-selected if 2.5 = PIH)
- Arrived outside thrombolysis time window
- Co-morbidity
- Contraindicated medication
- Patient or relative refusal
- Other

2.7. Date and time patient was thrombolysed

2.8. Was there evidence of cerebral haemorrhage on brain imaging after the patient received thrombolysis/thrombectomy?
- Yes
- No

2.9. What was the patient’s NIHSS score at 24 hours after thrombolysis / intra-arterial intervention?
- Automated calculation of total score

<table>
<thead>
<tr>
<th>2.9.1</th>
<th>Level of Consciousness (LOC)</th>
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<td>2.9.3</td>
<td>LOC Commands</td>
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<td>2.9.10</td>
<td>Motor Leg (right)</td>
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<td>Sensory</td>
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<tr>
<td>2.9.15</td>
<td>Extinction and Inattention</td>
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</table>

2.10. Date and time of first swallow screen
- Patient not screened in first 4 hours

2.10.1 If screening was not performed within 4 hours, what was the reason?
- Enter relevant code (see appendix)

2.11 Did the patient receive an intra-arterial intervention for acute stroke?
- Yes
- No

2.11.1 Was the patient enrolled into a clinical trial of intra-arterial intervention?
- Yes
- No

2.11.2 What brain imaging technique(s) was/were carried out prior to the intra-arterial intervention?
- CTA or MRA
- Measurement of ASPECTS score
- Assessment of ischaemic penumbra by perfusion imaging

2.11.3 How was anaesthesia managed during the intra-arterial intervention?
- Local anaesthetic only (anaesthetist NOT present)
- Local anaesthetic only (anaesthetist present)
- Local anaesthetic and conscious sedation (anaesthetist NOT present)
- Local anaesthetic and conscious sedation (anaesthetist present)
- General anaesthetic
- Other
2.11.4 What was the specialty of the lead operator?
   Interventional neuroradiologist ○
   Cardiologist ○
   Interventional radiologist ○
   Other ○

2.11.5 Were any of the following used?
   a. Thrombo-aspiration system Yes ○ No ○
   b. Stent retriever Yes ○ No ○
   c. Proximal balloon/flow arrest guide catheter Yes ○ No ○
   d. Distal access catheter Yes ○ No ○

2.11.6 Date and time of:
   a. Arterial puncture: ___________ ___________ ___________ ___________
   b. First deployment of device for thrombectomy or aspiration ○ Not performed
   c. End of procedure (time of last angiographic run on treated vessel): ___________ ___________ ___________ ___________

2.11.7 Angiographic appearance of culprit vessel and result assessed by operator (modified TICI score)
   a. Pre intervention 0 ○ 1 ○ 2a ○ 2b ○ 3 ○
   b. Post intervention 0 ○ 1 ○ 2a ○ 2b ○ 3 ○

2.11.8 Where was the patient transferred after the completion of the procedure?
   Intensive care unit or high dependency unit ○
   Stroke unit ○
   Other ○

2.12 What was the patient’s systolic blood pressure on arrival at hospital (the first SBP taken in the hospital) (note: if onset in hospital, first systolic blood pressure after stroke onset) [0 ] mmHg (range = 30-300)

2.13 Date/time of acute blood pressure lowering treatment, if given to the patient within 24 hours of onset? ("if onset is unknown, only answer if given within 1 day of stroke onset")
   Date: Click here to enter a date. Time: 00:00 Not given ○

2.14 Date/time SBP (Systolic Blood Pressure) of 140mmHg or lower was first achieved?
   Date: Click here to enter a date. Time: 00:00
   ○ Not achieved within 24h

2.15 Was the patient given anticoagulant reversal therapy?
   Yes ○ No ○

If yes, 2.15.1. What reversal agent was given?
   PCC ○
   DOAC antidote ○
   FFP ○
   Protamine ○
   Vitamin K ○

2.15.2 Date and time reversal agent was given
   Date: Click here to enter a date. Time: 00:00
Assessments – First 72 hours (if patient is transferred after 72 hours, this section must be complete and locked)

3.1. Has it been decided in the first 72 hours that the patient is for palliative care? Yes ☐ No ☐
   If yes:

3.1.1. Date of palliative care decision dd mm yyyy

3.1.2. If yes, does the patient have a plan for their end of life care? Yes ☐ No ☐

3.2. Date/time first assessed by nurse trained in stroke management dd mm yyyy hh mm
   or No assessment in first 72 hours ☐

3.3a Date/time first assessed by stroke specialist consultant physician dd mm yyyy hh mm
   or No assessment in first 72 hours ☐

3.3b How was contact first made with the stroke consultant?
   In person ☐
   By telephone ☐
   Telemedicine ☐

3.3c If first contact with consultant was not in person, date and time first assessed by stroke specialist consultant physician in person

3.4. Date/time of first swallow screen dd mm yyyy hh mm
   (If date/time already entered for screening within 4 hours (2.10), 3.4 does not need to be answered)
   or Patient not screened in first 72 hours ☐

3.4.1 If screening was not performed within 72 hours, what was the reason? Enter relevant code

3.5. Date/time first assessed by an Occupational Therapist dd mm yyyy hh mm
   or No assessment in first 72 hours ☐

3.5.1 If assessment was not performed within 72 hours, what was the reason? Enter relevant code

3.6. Date/time first assessed by a Physiotherapist dd mm yyyy hh mm
   or No assessment in first 72 hours ☐

3.6.1 If assessment was not performed within 72 hours, what was the reason? Enter relevant code

3.7. Date/time communication first assessed by Speech and Language Therapist dd mm yyyy hh mm
   or No assessment in first 72 hours ☐

3.7.1 If assessment was not performed within 72 hours, what was the reason? Enter relevant code

3.8. Date/time of formal swallow assessment by a Speech and Language Therapist or another professional trained in dysphagia assessment dd mm yyyy hh mm
   or No assessment in first 72 hours ☐

3.8.1 If assessment was not performed within 72 hours, what was the reason? Enter relevant code
This admission (this section must be completed by every team/hospital/care setting)

4.1. Date/time patient arrived at this hospital/team

4.2. Which was the first ward the patient was admitted to at this hospital?
   - MAU/AAU/CDU
   - Stroke Unit
   - ITU/CCU/HDU
   - Other

4.3. Date/time patient arrived on stroke unit at this hospital
   or Did not stay on stroke unit

<table>
<thead>
<tr>
<th>1. Physiotherapy</th>
<th>2. Occupational Therapy</th>
<th>3. Speech and language therapy</th>
<th>4. Psychology</th>
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<tr>
<td>Yes Odd No Even</td>
<td>Yes Odd No Even</td>
<td>Yes Odd No Even</td>
<td>Yes Odd No Even</td>
</tr>
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</table>

4.4. Was the patient considered to require this therapy at any point in this admission?

4.4.1 If yes, at what date was the patient no longer considered to require this therapy?

4.5. On how many days did the patient receive this therapy across their total stay in this hospital/team?

4.6. How many minutes of this therapy in total did the patient receive during their stay in this hospital/team?

4.7. Date rehabilitation goals agreed:
   - dd mm yyyy
   - No goals

4.7.1. If no goals agreed, what was the reason?
   - Not known
   - Patient medically unwell for entire admission
   - Patient refused
   - Patient has no impairments
   - Organisational reasons
   - Patient considered to have no rehabilitation potential

Patient Condition in first 7 days (if patient is transferred after 7 days, this section must be complete)

5.1. What was the patient’s worst level of consciousness in the first 7 days following initial admission for stroke? (Based on patient’s NIHSS Level of Consciousness (LOC) score):
   - 0
   - 1
   - 2
   - 3

5.2. Did the patient develop a urinary tract infection in the first 7 days following initial admission for stroke as defined by having a positive culture or clinically treated?
   - Yes
   - No
   - Not known

5.3. Did the patient receive antibiotics for a newly acquired pneumonia in the first 7 days following initial admission for stroke?
   - Yes
   - No
   - Not known
Assessments – By discharge (some questions are repeated from the “Assessments – First 72 hours” section but should only be answered if assessments not carried out in the first 72 hours)

6.1. Date/time first assessed by an Occupational Therapist
or No assessment by discharge

   6.1.1 If no assessment, what was the reason? 

6.2. Date/time first assessed by a Physiotherapist
or No assessment by discharge

   6.2.1 If no assessment, what was the reason? 

6.3. Date/time communication first assessed by Speech and Language Therapist
or No assessment by discharge

   6.3.1 If no assessment, what was the reason? 

6.4. Date/time of formal swallow assessment by a Speech and Language Therapist or another professional trained in dysphagia assessment
or No assessment by discharge

   6.4.1 If no assessment, what was the reason? 

6.5. Date urinary continence plan drawn up
or No plan

   6.5.1 If no plan, what was the reason? 

6.6. Was the patient identified as being at high risk of malnutrition following nutritional screening?
Yes ○ No ○ Not screened ○ 

   6.6.1 If yes, date patient saw a dietitian

6.7. Date patient screened for mood using a validated tool
or Not screened ○ 

   6.7.1 If not screened, what was the reason? 

6.8. Date patient screened for cognition using a simple standardised measure?
or Not screened ○ 

   6.8.1 If not screened, what was the reason? 

6.9. Has it been decided by discharge that the patient is for palliative care? 
Yes ○ No ○ 
If yes:

   6.9.1 Date of palliative care decision

   6.9.2 If yes, does the patient have a plan for their end of life care? 
Yes ○ No ○ 

6.10. First date rehabilitation goals agreed:
or No goals ○ 

   This question is auto-completed. It will be based on the first date that is entered for 4.7. If no hospitals / care settings in the pathway enter a date (i.e. all select ‘no goals’), then ‘no goals’ will be selected here. 

6.11 Was intermittent pneumatic compression applied? 
Yes ○ No ○ Not Known ○ 

   6.11.1 If yes, what date was intermittent pneumatic compression first applied?

   6.11.2 If yes, what date was intermittent pneumatic compression finally removed?
Discharge / Transfer

7.1. The patient:
- Died □
- Was discharged to a care home □
- Was discharged home □
- Was discharged to somewhere else □
- Was transferred to another inpatient care team □
- Was transferred to an ESD / community team □
- Was transferred to another inpatient care team, not participating in SSNAP □
- Was transferred to an ESD/community team, not participating in SSNAP □

7.1.1 If patient died, what was the date of death? dd mm yyyy

7.1.2 Did the patient die in a stroke unit? Yes □ No □

7.1.3 What hospital/team was the patient transferred to? Enter team code

7.2. Date/time of discharge from stroke unit dd mm yyyy hh mm

7.3. Date/time of discharge/transferred from team dd mm yyyy hh mm

7.3.1 Date patient considered by the multidisciplinary team to no longer require inpatient care? dd mm yyyy

7.4. Modified Rankin Scale score at discharge/transfer 0 - 6 (defaults to 6 if 7.1 is died in hospital)

7.5. If discharged to a care home, was the patient:
- Previously a resident □
- Not previously a resident □

7.5.1 If not previously a resident, is the new arrangement:
- Temporary □
- Permanent □

7.6. If discharged home, is the patient:
- Living alone □
- Not living alone □
- Not known □

7.7. Was the patient discharged with an Early Supported Discharge multidisciplinary team?
- Yes, stroke/neurology specific □
- Yes, non-specialist □
- No □

7.8. Was the patient discharged with a multidisciplinary community rehabilitation team?
- Yes, stroke/neurology specific □
- Yes, non-specialist □
- No □

7.9. Did the patient require help with activities of daily living (ADL)? Yes □ No □

7.9.1 What support did they receive?
- Paid carers □
- Paid care services unavailable □
- Informal carers □
- Patient refused □
- Paid and informal carers □

7.9.2 At point of discharge, how many visits per week were social services going to provide? 0 - 100 or Not known □

7.10. Is there documented evidence that the patient is in atrial fibrillation on discharge? Yes □ No □

7.10.1 If yes, was the patient taking anticoagulation (not anti-platelet agent) on discharge or discharged with a plan to start anticoagulation within the next month? Yes □ No □ No but □

7.11. Is there documented evidence of joint care planning between health and social care for post discharge management? Yes □ No □ Not applicable □

7.12. Is there documentation of a named person for the patient and/or carer to contact after discharge? Yes □ No □

SSNAP Dataset version 4.0.0
Six month (post admission) follow-up assessment

8.1. Did this patient have a follow-up assessment at 6 months post admission (plus or minus two months)?
Yes ○ No ○ No but ○ No, patient died within 6 months of admission ○
N.B. ‘No but’ should only be answered for DNAs, patients who are not registered with a GP, or patients who have had another stroke and a new SSNAP record started.

8.1.1 What was the date of follow-up? [dd mm yyyy]

8.1.2 How was the follow-up carried out: In person ○ By telephone ○ Online ○ By post ○

8.1.3 Which of the following professionals carried out the follow-up assessment:
- GP ○
- District/community nurse ○
- Stroke coordinator ○
- Voluntary Services employee ○
- Therapist ○
- Secondary care clinician ○
- Other ○

8.1.4 If other, please specify [Free text (30 character limit)]

8.1.5 Did the patient give consent for their identifiable information to be included in SSNAP?*
Yes, patient gave consent ○ No, patient refused consent ○ Patient was not asked ○

8.2 Was the patient screened for mood, behaviour or cognition since discharge using a validated tool?
Yes ○ No ○ No but ○

8.2.1 If yes, was the patient identified as needing support? Yes ○ No ○

8.2.2 If yes, has this patient received psychological support for mood, behaviour or cognition since discharge?
Yes ○ No ○ No but ○

8.3. Where is this patient living? Home ○ Care home ○ Other ○

8.3.1 If other, please specify [Free text (30 character limit)]

8.4. What is the patient’s modified Rankin Scale score? [0-6] Not known ○

8.5. Is the patient in persistent, permanent or paroxysmal atrial fibrillation? Yes ○ No ○ Not known ○

8.6. Is the patient taking:
- 8.6.1 Antiplatelet: Yes ○ No ○ Not known ○
- 8.6.2 Anticoagulant: Yes ○ No ○ Not known ○
- 8.6.3 Lipid Lowering: Yes ○ No ○ Not known ○
- 8.6.4 Antihypertensive: Yes ○ No ○ Not known ○

8.7. Since their initial stroke, has the patient had any of the following:
- 8.7.1 Stroke: Yes ○ No ○ Not known ○
- 8.7.2 Myocardial infarction: Yes ○ No ○ Not known ○
- 8.7.3 Other illness requiring hospitalisation: Yes ○ No ○ Not known ○

*8.1.5. This question is mandatory to be collected at the 6 month review and is a requirement for collecting patient identifiable information as part of our section 251 (NHS Act 2006) approval from the Ethics and Confidentiality Committee of the National Information Governance Board.
NB. There is a stand-alone intra-arterial proforma available in the support section of the dataset which lists only those additional questions related to this intervention. The changes in the SSNAP Core Dataset 3.1.1 are all related to these new dataset questions.

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<th>Version</th>
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<th>Changes</th>
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<td>12 Dec 2012</td>
<td>– Official core dataset following pilot versions (most recent 3.6.16)</td>
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<tr>
<td>1.1.2</td>
<td>18 Feb 2013</td>
<td>– 1.12.2 – word ‘incident’ added to question and allowed values changed to 10 characters</td>
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<td></td>
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<td>– 2.8 – sub questions renumbered</td>
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<td></td>
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<td>– 6.10 – word ‘First’ added</td>
</tr>
<tr>
<td>2.1.1</td>
<td>02 Apr 2014</td>
<td>– 1.14 Which was the first ward the patient was admitted to at the first hospital? (wording change from ‘Which was the first ward the patient was admitted to?’)</td>
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<td></td>
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<td>– 3.1 Has it been decided in the first 72 hours that the patient is for palliative care? (wording change from ‘If yes, does the patient have a plan for their end of life care?’)</td>
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<td></td>
<td></td>
<td>– 3.1.2 – If yes, does the patient have a plan for their end of life care? (wording change from ‘Is the patient on an end of life pathway?’)</td>
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<td>– 4.4.1 – New question: ‘If yes, at what date was the patient no longer considered to require this therapy?’</td>
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<td></td>
<td>– 4.5.1 Question removed</td>
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<tr>
<td></td>
<td></td>
<td>– 4.6.1 Question removed</td>
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<td></td>
<td></td>
<td>– 6.9.2 – If yes, does the patient have a plan for their end of life care? (wording change from ‘Is the patient on an end of life pathway?’)</td>
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<td></td>
<td>– 6.11 - New question: ‘Was intermittent pneumatic compression applied? ’</td>
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<td></td>
<td></td>
<td>– 6.11.1 - New question: ‘If yes, what date was intermittent pneumatic compression first applied?’ Validation: Cannot be before clock start and cannot be after 7.3</td>
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<td></td>
<td></td>
<td>– 6.11.2 - New question: ‘If yes, what date was intermittent pneumatic compression finally removed?’ Validation: before clock start or 6.11.1 and cannot be after 7.3</td>
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<td></td>
<td>– 7.1 – Additional answer options: ‘Was transferred to another inpatient care team, not participating in SSNAP’ Validation: Selecting either of these has same effect as selecting discharged somewhere else</td>
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<td>– 7.3.1 – ‘Date patient considered by the multidisciplinary team to no longer require inpatient care?’ (wording change from ‘Date patient considered by the multidisciplinary team to no longer require inpatient rehabilitation?’)</td>
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<td>– 8.4 – Additional answer option: ‘Not Known’. (‘What is the patient’s modified Rankin Scale score?’)</td>
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<td>– 8.5 – Additional answer option: ‘Not Known’. (‘Is the patient in persistent, permanent or paroxysmal atrial fibrillation?’)</td>
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<td></td>
<td></td>
<td>– 8.6.1 – Additional answer option: ‘Not Known’. (‘Is the patient taking: Antithrombotic?’)</td>
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<tr>
<td></td>
<td></td>
<td>– 8.6.2 – Additional answer option: ‘Not Known’. (‘Is the patient taking: Anticoagulant?’)</td>
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<td>– 8.6.3 – Additional answer option: ‘Not Known’. (‘Is the patient taking: Lipid Lowering?’)</td>
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<td>– 8.6.4 – Additional answer option: ‘Not Known’. (‘Is the patient taking: Antihypertensive?’)</td>
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<td>– 8.7.1 – Additional answer option: ‘Not Known’. (‘Since their initial stroke, has the patient had any of the following: Stroke?’)</td>
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<td></td>
<td></td>
<td>– 8.7.2 – Additional answer option: ‘Not Known’. (‘Since their initial stroke, has the patient had any of the following: Myocardial infarction?’)</td>
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<td></td>
<td></td>
<td>– 8.7.3 – Additional answer option: ‘Not Known’. (‘Since their initial stroke, has the patient had any of the following: Other illness requiring hospitalisation?’)</td>
</tr>
</tbody>
</table>

<p>| 3.1.1   | 01 Oct 2015| – 2.11 – New question – ‘Did the patient receive an intra-arterial intervention for acute stroke?’                                                                                                    |
|          |            | – 2.11.1 – New question – ‘Was the patient enrolled into a clinical trial of intra-arterial intervention?’                                                                                           |
|          |            | – 2.11.2 – New question – ‘What brain imaging technique was carried out prior to the intra-arterial intervention?’                                                                                   |
|          |            | – 2.11.3 – New question – ‘How was anaesthesia managed during the intra-arterial intervention?’                                                                                                |
|          |            | – 2.11.4 – New question – ‘What was the speciality of the lead operator?’                                                                                                                        |
|          |            | – 2.11.5 – New question – ‘Were any of the following used?’                                                                                                                                    |
|          |            | – 2.11.6 – New question – ‘Date and time of:’                                                                                                                                                    |
|          |            | – 2.11.7 – New question – ‘Did any of the following complications occur?’                                                                                                                       |
|          |            | – 2.11.8 – New question – ‘Angiographic appearance of culprit vessel and result assessed by operator (modified TCI score)’                                                                        |</p>
<table>
<thead>
<tr>
<th>4.0.0</th>
<th>01 Dec 2017</th>
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<tbody>
<tr>
<td>2.11.9 – New question – “Where was the patient transferred after the completion of the procedure?”</td>
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<td>2.1.7 - remove validation: Validation Change: “Yes” is available even if patient is not in AF prior to this admission ie if 2.1.3 “Atrial Fibrillation” = No then 2.1.7 answer options are not greyed out.</td>
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<tr>
<td>2.1.7a - New question and validation</td>
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<td>2.1.7b - New question and validation</td>
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<td>2.1.8 - New question and validation</td>
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<td>2.8 - New question and validation</td>
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<td>2.9 - New question and validation</td>
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<td>2.9.1 - New question and validation</td>
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<td>2.9.4 - New question and validation</td>
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<td>2.9.6 - New question and validation</td>
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<td>3.3b - New question and validation</td>
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<tr>
<td>3.3c - Change to previous question 3.3</td>
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