

SINAP

Stroke Improvement National Audit Programme

Presented by Becca Cosgriff
Governance and Audit Co-ordinator for Stroke

Outline

- What is SINAP?
- SINAP at St George's
- SINAP – The Results
 - How might SINAP inform acute stroke service delivery and improvement?

What is SINAP?

- A national project to audit the care of acute stroke patients
- Funded by the Department of Health and implemented by the Royal College of Physicians (RCP)
- It collects prospective data on every stroke patient for up to 72 hours of their hospital stay
- Aims:
 - To describe the acute stroke care pathway
 - Assess quality of care
 - Identify areas for improvement

How does SINAP work?

- Data should be collected as close to 'real time' as possible
- Information is entered onto a web tool
- Data should be entered every day for the first three days of a stroke patient's hospital stay
 - Inclusion criteria
 - Exclusion criteria

The SINAP web tool

Save Validate Lock Close

Empty Incomplete Complete

Patient Audit Number: NHS Number: Admission Date:

Patient Onset/Admission Casemix Investigations Thrombolysis 0-24h 24-48h 48-72h Discharge Supplementary* User Fields*

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Patient Demographics

1.1 Hospital GEO. St George's Hospital

1.2 Patient Audit Number

1.3 Hospital number

1.4 NHS number
(b) No NHS number - Overseas visitor (or armed forces, prisoner) Overseas visitor

1.5 Surname

1.6 Forename

1.7 Date of birth (dd/mm/yyyy)

1.8 Sex: male/female male female

1.9 Postcode of usual address

The SINAP web tool

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Patient Audit Number: 999 NHS Number: Admission Date:

Patient Onset/Admission Casemix Investigations Thrombolysis 0-24h 24-48h 48-72h Discharge Supplementary* User Fields*

Onset/Admission

2.1 Date and time of onset/awareness of symptoms

(a) Date (dd/mm/yyyy) 19/09/2010

(b) Date not known Date not known

(c) Time (hh:mm) 07:00

(d) Time not known Time not known

NHS Direct

GP or out of hours service

Accident and Emergency

Emergency ambulance service

Transferred for primary treatment

Already in hospital

Other

If other please specify

2.3 Ambulance Job Number

2.4 Date/time patient arrived in hospital

(a) Date (dd/mm/yyyy)

(b) Time (24 hour clock)

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

The SINAP web tool

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Patient Audit Number: 999

NHS Number:

Admission Date:

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Casemix

3.1 On the basis of history and examination, did the patient present with any of the following?

- (a) Face (weakness/sensory loss) Yes No Unable to assess
- (b) Arm (weakness/sensory loss) Yes No Unable to assess
- (c) Leg (weakness/sensory loss) Yes No Unable to assess
- (d) Dysphasia Yes No Unable to assess
- (e) Hemianopia Yes No Unable to assess
- (f) Inattention/neglect Yes No Unable to assess
- (g) Brainstem/cerebellar signs Yes No Unable to assess
- (h) Other Yes No Unable to assess

If other, please specify

- 3.2 Was the patient independent in everyday activities prior to stroke? Yes No Unable to assess



The SINAP web tool

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Patient Audit Number: 999 NHS Number: Admission Date:

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Investigations

4.1 What was the initial brain imaging modality? CT MRI Not imaged

4.2 Date and time of first brain imaging

(a) Date (dd/mm/yyyy) 19/09/2010

(b) Time (24 hour clock) 08:00

4.3 What was the type of stroke? Infarction Primary intracerebral haemorrhage

Your comments

Please enter comments for the ImagingModality field

Example comment

OK Close

The SINAP web tool

Save Validate Lock Close

Empty Incomplete Complete

Patient Audit Number: 999 NHS Number: Admission Date:

Patient Onset/Admission Casemix Investigations Thrombolysis 0-24h 24-48h 48-72h Discharge Supplementary* User Fields*

Thrombolysis

5.1 Was the patient given thrombolysis? Yes No

None
 Haemorrhagic stroke
 Thrombolysis not available at all at centre
 Patient arrived outside normal thrombolysis service hours
 Patient a suitable candidate but unable to scan quickly enough
 Patient arrived outside the thrombolysis time window
 Patient contra-indicated for thrombolysis due to co-morbidity
 Patient contra-indicated for thrombolysis due to age
 Patient contra-indicated for thrombolysis due to medication
 Patient/carer refused
 Other

If other, please specify

5.2 Date and time patient was thrombolysed























(a) Date (dd/mm/yyyy)

(b) Time (24 hour clock)

The SINAP web tool

Patient Onset/Admission Casemix Investigations Thrombolysis 0-24h 24-48h 48-72h Discharge Supplementary* User Fields*

0 - 24 Hours

- 6.1 Location (tick all that apply)** MAU ITU General Medical Ward Stroke Unit Other  
- 6.2 Patient condition** Dead Worse than at presentation Same as at presentation Better than at presentation  
 Full recovery
- 6.2(a) What was the patient's worst level of consciousness during this period?** Fully conscious  
 Drowsy
 Semi-conscious (not fully rousable)
 Unconscious (responds to pain only/no response)
- 6.3 Palliative care decision** Yes No  
- 6.4 Was the patient assessed by the following during this 24 hour period: Answer no but...if patient unfit for assessment or no deficit.**
- (a) Nurse** Yes No No but  
- (b) Occupational Therapist** Yes No No but  
- (c) Physiotherapist** Yes No No but  
- (d) Speech and Language Therapist** Yes No No but  
- 6.5 Did the patient receive the following during this 24 hour period? Answer no but...if patient unfit for assessment**
- (a) Nutrition screening assessment** Yes No No but  
- (b) Formal swallowing assessment** Yes No No but  
- (c) Seen by stroke consultant or associate specialist** Yes No  

The SINAP web tool

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Patient Audit Number: 999

NHS Number:

Admission Date: 19/09/2010

Patient Onset/Admission Casemix Investigations Thrombolysis 0-24h 24-48h 48-72h Discharge Supplementary* User Fields*

Discharge

9.1 Was the patient entered into a randomised stroke trial?

Yes No



None Haematoma removal

9.2 Did the patient have neurosurgery?

Hemicraniectomy Other



Ventricular shunting

9.3 Was the patient referred to a tertiary centre?

Yes No



Home/usual place of residence Bed based intermediate care

9.4 Final discharge destination.

Other hospital Stroke unit at other hospital



Dead Other

The SINAP web tool

Patient	Onset/Admission	Casemix	Investigations	Thrombolysis	0-24h	24-48h	48-72h	Discharge	Supplementary*	User Fields*
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User Defined Fields (*Non mandatory)

You can use these fields to store data defined by your organisation. Each field can contain up to 64K bytes of plain text or numbers. To rename the field titles to something more meaningful, click the 'Rename User Fields' button below. These values will be stored for future reference.

Occupation or if retired previous occupation (eg. retired train driver)	<input type="text"/>	New diagnosis of AF in hospital (Y/N)	<input type="text"/>	Rename user field
NIHSS score on admission	<input type="text"/>	New diagnosis of diabetes in hospital (Y/N)	<input type="text"/>	
Premorbid living arrangements (indicate by number) 0=living alone, 1=living with partner, 2=living with carer, 3=sheltered accomodation, 4=Residential care, 5=Nursing home	<input type="text"/>	Date of follow up	<input type="text"/>	
Recent MI (within last 6 months), Y/N	<input type="text"/>	Rankin at follow up	<input type="text"/>	
Previous stroke (Y/N), if yes give date of last stroke	<input type="text"/>	Recurrent stroke at follow up (Y/N)	<input type="text"/>	
Previous TIA (Y/N), if yes give date of last TIA	<input type="text"/>	Residence at follow up 0=living alone, 1= living with partner, 2=living with carer, 3=sheltered accommodation, 4=rehabilitation centre, 5=nursing home, 6=acute care hospital	<input type="text"/>	
On treatment for hypertension before stroke (Y/N)	<input type="text"/>	Date referred to Stroke team	<input type="text"/>	
Permanent or paroxysmal atrial fibrillation/flutter before this stroke(Y/N)	<input type="text"/>	Time referred to Stroke team	<input type="text"/>	

SINAP at St George's

- As Audit Co-ordinator for Stroke, I was given responsibility for facilitating SINAP
- Mon-Fri I collect data in real time by attending ward rounds
- Data entered onto a Computer on Wheels (COW)
- Non-clinical, but able to complete the majority of the web tool independently

SINAP at St George's

- A condensed proforma was created for use on weekends and when I am on leave
- Discharge information is collected using St George's Electronic Patient Record (EPR)
- Follow up information is obtained using a short form to be completed during Stroke follow up appointments
- The 'User Fields' tab has been tailored to our own data collection needs

SINAP – The Results

- Quarterly reports compiled by the RCP
 - Reflect national and local results
- Monthly local reports
- SINAP data utilised for various local and national audits

SINAP – The Results: Admissions

- 139 in August
- An increase of 17% from July
- Admissions have increased by 72% since June and the introduction of the new HASU model
- The proportion of Non Strokes brought up to HASU has remained relatively stable between June-August
 - June = 13%, July = 19%, August = 17%

SINAP – The Results: Thrombolysis

- On average, 12% of Stroke patients at St George's are given Thrombolysis
- More Stroke patients arriving outside the Thrombolysis time window
 - June = 53%; July = 66%, August = 67%
- All patients at St Georges are recorded as having a legitimate reason for not being Thrombolysed

SINAP – The Results: Timings

- A&E to seen by Stroke Team: Median 0:05:00
- A&E to Scan: Median 1:40:00
- A&E to HASU: Median 1:40:00

SINAP – The Results: Care Bundles

- Therapy: 99% of patients with a diagnosis of stroke were seen by all appropriate therapists within 72 hours of arrival in hospital
- Screenings: 96% of patients with a diagnosis of stroke received both a malnutrition screening and a swallow screening within 24 hours of arrival in hospital

In Summary...

- SINAP is a national prospective audit of the Stroke care pathway
- SINAP is feasible, provided staffing levels allow for someone to dedicate a significant proportion of their time to data collection and analysis
- SINAP procures data that informs service delivery and improvement

Thanks for listening!

- For further details please contact me, Becca Cosgriff on:
 - bcosgrif@sgul.ac.uk
 - 020 87252 461