

Ho	spital details		
1.	Is the hospital a teaching hospital?	□ Yes	□ No
2.	Number of beds in the hospital? $ _{-} _{-} _{-}$	_ _	beds
3.	Location of the hospital: <i>(tick one answer)</i> Metropolitan / urban Semi-metropolitan / semi-urban Rural / countryside		
4.	Does the hospital have an intensive care unit?	□ Yes	□ No
5.	Does the hospital maintain a stroke database?	□ Yes	□ No
6.	Does the hospital have onsite specialist physicians responsible for stroke patients?	□ Yes	□ No
7.	Does the hospital use telemedicine links to smaller hospitals?	□ Yes	□ No
8.	Does the hospital have transfer protocols for acute stroke treatment or care with other hospitals?	□ Yes	□ No
9.	Does the hospital have a dedicated, multidisciplinary stroke team?	□ Yes	□ No
Str	oke pathways		
10.	Does the city have an emergency call service? (e.g. 9-1-1, or 0-0-0, or 9-9-9)	□ Yes	□ No
11.	Are ambulance services organised for direct transpital of suspected stroke patients? <i>(tick one</i> Yes No No but, there is agreement to bypass the another stroke specific service	e answe	r)
	Unsure		
12.	What proportion of stroke patients arrive at the hospital by ambulance?	_ _	%
13.	What proportion of stroke patients arrive within 4 hours of the onset of symptoms?	_ _	%
14.	Is the ED contacted / notified of an acute stroke patient by the ambulance service before arrival at the hospital?	□ Yes	□ No

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15.	Do stroke patients have a fast track access to brain imaging from the ambulance to the radiology department?	□ Yes	□ No	
16.	Is there an acute "code stroke" pager system for potential thrombolysis patients?	□ Yes	□ No	
17.	Does the hospital manage complex strokes that require neurosurgical intervention?	□ Yes	□ No	
18.	Which team usually manages stroke patients at the hospital? (tick one)			
	General medical team			
	Stroke geriatric team			
	General geriatric team			
	Stroke neurology team			
	General neurology team			
	General practitioner/visiting medical off	icers		
19.	What proportions (%) of acute stroke patients are admitted to the following units or departments in the hospital? (answer 0 to all that is not applicable)			
	Short stay ward in emergency department	_ _ _	%	
	Intensive care unit	_ _ _	%	
	Specialised stroke care unit	_ _ _	%	
	Neurology ward	_ _ _	%	
	Neurosurgical ward	_ _ _	%	
	Geriatric ward	_ _ _	%	
	Geriatric rehabilitation ward	_ _ _	%	
	General medical ward	_ _ _	%	
	Other	_ _ _	%	
Eme	ergency Department (ED)			
20.	Number of beds in ED? $ _{-} _{-} $	_ _ _	beds	
21.	Average number of patients seen in ED per month?	_ _ _ pa	_ tients	
	rally, what is the number of patients to one sta ver 0 if not applicable)	ff?		
22.	Number of patients to one nurse			
23.	Number of patients to one health assistant	_ _		



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Hospital organisation questionnaire

24.	Select what best describes the ED at the hospital:		
		Dedicated ED	
		No dedicated ED but a designated "emergency area" in a small hospital	
a.		If dedicated ED, does it have: (tick all that apply)	
		an intensive care unit?	
		a high dependency or acute medical unit (AMU)?	
		a separate resuscitation area?	
		a short stay ward?	
25.		here current ED clinical pathway/checklist/protocols for aemic stroke patients for:	
		Rapid triage and treatment for acute stroke?	
		Early transfer to another hospital?	
26.	patie	ou have a clinical pathway/checklist for nts with acute intracerebral Yes No norrhage?	
27.		t proportion of stroke patients stay in $ _{-} _{-} $ % D beyond 4 hours?	
28.	servi	here medical staff from the stroke ce (specialist, fellow or registrar)	
a.		If YES:	
		Availability on site 24/7	
		Monday to Friday during working hours (8-5), on-call after hours	
		Designated phone or telemedicine support only	
		Other, please specify:	
b.		If NO stroke service available in ED, acute management advice primarily provided by:	
		General Physician	
		Emergency Medicine Specialist	
		General Practitioner or Career Medical Officer	
		Other, please specify:	
29.	Wha (tick	t area in the ED are stroke patients mostly assessed? <i>one)</i>	
		General area	
		Dedicated area for stroke patients	
		Dedicated resuscitation area	
		Short stay ward	
		Other, please specify:	

lma	ging	and i	nvestigation		
Does patier		ospital ha	ave the following investigation	ns for stroke	
30.	Urge	nt CT sc	an on arrival at the hospital?	□ Yes	□ No
		If YES,	what is the availability?		
			24 hours, 7 days of the we	ek	
			Working hours only (8-5)		
			Working hours (8-5) and or hours	ı – call after	
31.	MR I	maging		□ Yes	□ No
		If YES,	what is the availability?		
	a.		MRI within 24-48 hours of presentation	□ Yes	□ No
	b.		MRI within 24-48 hours of presentation	□ Yes	□ No
32.		nced ima ography)	aging (CT perfusion or	□ Yes	□ No
		If YES,	what is the availability?		
	a.	CTP or	n most patients	□ Yes	□ No
	b.	CTA or	n most patients	□ Yes	□ No
33.			gy used at the hospital for interpretation?	□ Yes	□ No
34.	Caro	tid Doppl	ler ultrasound?	□ Yes	□ No
		If YES,	what is the availability?		
	a.	On-site present	within 48 hours of tation?	□ Yes	□ No
	b.	Off-site present	within 48 hours of tation?	□ Yes	□ No
35.	on st		al Doppler routinely performe ents in the first 24 hours of	ed □ Yes	□ No
36.		cardiogra esophag	aphy (transthoracic and/or eal)?	□ Yes	□ No

36.

37.

38.

Holter monitor or 24hrs ECG for arrhythmia?

Is emergency laboratory testing available at all times?

Yes

Yes

No

□ No



Ас	ute treatment for stroke			
39.	Do you offer intravenous thrombolysis (rt- PA) for appropriate stroke patients at the hospital?	□ Yes	□ No	
a.	If YES, when is it available?			
	Available 24 hours, 7 days per week			
	Monday to Friday during working hours	s (8-5)		
	Limited service			
b.	Is there a standardised protocol for administering intravenous rt-PA?	□ Yes	□ No	
C.	How many patients were thrombolysed in the past 12 months?	_ _ pa	atients	
d.	What proportions (%) of ischaemic stroke patients receive rt-PA?	_ _	%	
e.	What is the recommended time window for an intravenous rtPA in eligible ischemic stroke p hospital?			
	3 hours			
	4.5 hours			
	Other, please specify:		_	
f.	Do you routinely collect door-to-needle (DTN) time?	□ Yes	□ No	
g.	If YES, what is the current average DTN time for rt-PA?	_ _ m	inutes	
h.	Is intravenous thrombolysis performed using tele-medicine?	□ Yes	□ No	
40.	Are endovascular therapies available for stroke patients at the hospital?	□ Yes	□ No	
a.	If YES, which ones: (tick all that apply)			
	Intra-arterial thrombolysis and/or throm acute ischaemic stroke	bectomy	of	
	Endovascular (ie coiling) for the treatm intracranial aneurysms	ent of		
	Endovascular treatment (ie stents) for stenosis	carotid		
41.	Is endarterectomy for carotid stenosis available at the hospital?	□ Yes	□ No	
a.	If NO, is there a transfer agreement with another hospital?	□ Yes	□ No	
42.	Is neurosurgery available onsite?	□ Yes	□ No	
a.	If NO, is there a transfer agreement with another hospital?	Yes		

Hospital organisation questionnaire

43.	What is current practice for positioning patients in the acute (<24 hours) phase of ischaemic stroke ? (<i>tick one</i>)		
	Lying flat: 0-5 degrees (allow head on 1 flat no elevation of head of bed)	t pillow	but
	☐ Sitting up: ≥30 degrees position		
	No standard positioning		
	Other, please specify:		
44.	What is current practice for positioning patients (<24 hours) phase of intracerebral haemorrha <i>one</i>)		
	Lying flat: 0-5 degrees position (allow head pillow but no elevation of head of bed)	d on flat	
	☐ Sitting up: ≥30 degrees position		
	No standard positioning		
	Unsure		
	Other, please specify:		
45.	Are there specific clinical situations in which you would alter a patient's position?	□ Yes	□ No
a.	If yes, what is the current practice for positionin the clinical situations below? (tick all that apply		nts in
	Lying flat for revascularisation (iv or ia thrombolysis or clot retrieval)		
	☐ Sitting up (≥30°) for large hemispheric	infarctio	on
	☐ Sitting up (≥30°) for mechanically vent patients	tilated	
	☐ Sitting up (≥30°) for drowsy or comate	se patie	ents
	☐ Sitting up (≥30°) for patients with pneu	umonia	
	☐ Sitting up (≥30°) for patients with dysp they are not eating or drinking (inter meals		hen
	Other, please specify:		
policy	swer the following questions please refer to any in <u>any department</u> of the hospital where a strok to be admitted		
46.	Is there a policy indicating early (<24 hours) mobilisation stroke patients (including sitting up or out of bed)?	□ Yes	□ No
47.	Is there a policy indicating that stroke patients with a nasogastric tube should be positioned sitting up in bed?	□ Yes	□ No
Stro	ke care and Stroke Care Unit		
48.	Does the hospital have a special pathway, ward or service organisation for the management of patients with acute stroke?	□ Yes	□ No

No

Yes



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Hospital organisation questionnaire

10	Is there a dedicated stroke ward/unit? (ie	How many of the following medical officers attend a typical ward
49.	a discrete ward or section of ward caring Yes No exclusively for stroke patients)	round in the stroke ward/unit? weekdays weekends
50.	If YES, complete (a) and (b) as it best describes the type	59. Consultants _ _ _
	of stroke ward/unit that is in the hospital:	Fellow/advanced trainees _ _ _ 60. (senior training doctors)
a	for early discharge (usually within seven days))	Registrars (mid-level 61. <i>training doctor</i>)
	Rehabilitation stroke unit (ie accept patients after a delay, usually 7 or more days, with a focus on rehabilitation)	Junior medical officers 62. (residents/interns) <i>(junior doctors</i>)
	Comprehensive stroke units (ie combined acute and rehabilitation, accept patients acutely but also provides early rehabilitation for up to several weeks if necessary)	63. What is the stroke specialist consultant review process of patients on the ward?
b	· ☐ intensive ' with continuous monitoring, high staffing levels and life support facilities	 1 consultant sees all patients on a daily roster 1 consultant sees all patients on a weekly roster
	'semi-intensive' with continuous monitoring, high	1 consultant sees all patients on a 2-4 week roster
	staffing but no life support facilities	Each consultant regularly sees their own patients
	'non-intensive' with none of the above.	After hours, is there any special doctor rostered to be available to attend specifically to stroke patients who require
51.	Number of dedicated stroke beds in $ _ _ _ _ _ _ $ the hospital? beds	admission to hospital? a. If YES, what is their level of expertise: (tick all that apply)
	the hospital? beds	a. If YES, what is their level of expertise: (tick all that apply)
52.	Number of acute stroke patients admitted to the hospital annually? patients	Fellow/advanced trainee
53.	Number of acute stroke patients treated in the stroke care unit annually? patients	Junior medical officers (residents/interns)
54.	Are there guidelines for acute treatment of stroke patients in the stroke care unit? Yes No	 Are there other health professionals involved in the management of stroke patients at the hospital? (<i>tick all tha apply</i>)
		Advanced medical trainee
	erally, what is the number of patients to one staff? (answer 0 f applicable)	Clinical psychology
11 1101	αμμιταυίο)	
55.	Number of patients to one nurse	 Dietician General physician
56.	Number of patients to one health assistant	General practitioner
		Geriatrician
57.	Is a doctor stroke specialist available in the stroke care unit? (tick one)	Neurologist
	Availability 24 hours, 7 days per week	Clinical nurse consultant (CNC)
	— Monday to Friday during working hours (8.5) and on	Clinical nurse specialist (CNS)
	call after hours	Stroke care coordinator
	Monday to Friday during working hours (8-5)	Stroke specialist research nurse
	Limited availability	Dysphagia specialist nurse
	Not available	Nurse practitioner
		Nursing unit manager (NUM)
	Does the stroke unit team provide medical \Box	 Occupational therapist
58.	care or advice for patients not in the stroke Yes No care ward/unit? (i.e. for outliers, 'in-reach'	Physiotherapist
	or 'mobile' service)	Rehabilitation physician
		Social worker
		Speech language pathologist
		Other:

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Hospital	organisation	question	naira
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66.	Is there a protocol for referral to the following health professionals? (<i>tick all that apply</i>)	70
	Physiotherapist	72.
	Speech pathologist	
	Occupational therapist	
	Dietician	
	Psychologist	
	Psychiatrist	
	Social worker	D:
67.	Are there multidisciplinary stroke team meetings held at least weekly? Yes No	Di se
68.	Who decide the position of stroke patients in routine care? (tick one)	73.
	Stroke physician or stroke registrar	74.
	Emergency physician	
	Nurses	
	Health assistants	75.
	Other, please specify:	
		76.
69.	Are assessment scales routinely used for any of the following situations? (tick all that apply)	77.
	Consciousness level	
	Motor impairment	78.
	☐ Visual impairment	
	Sensory impairment	
	Cognitive impairment	Co Im
	Executive function	
	Activities of daily living	79.
	☐ Mood	
	Incontinence	
	Pressure sore risk	80.
	Nutrition	
70.	Are there local protocols (including assessment/monitoring) for any of the following situations? <i>(tick all that apply)</i> Fever control	
	Reducing elevated blood glucose levels	81.
	Swallow dysfunction	01.
71.	When is a swallowing screen performed for stroke patients? (<i>tick one</i>)	
	within 24 hours for all patients	
	within 24 hours for selected high risk patients	
	before feeding for all patients	
	before feeding for selected high risk patients	
	never performed	

-	Is a formal swallowing assessment by a speech pathologist or speech and language therapist performed routinely? (tick one)
	on every stroke patient
	on referral
	on selected high risk patients
	never performed

Discharge plans, rehabilitation and follow-up services				
73.	Is a discharge summary sent to the General Practitioner?	□ Yes	□ No	
74.	Do all stroke patients receive a routine outpatient clinic follow-up review?	□ Yes	□ No	
75.	Is there an Early Supported Discharge service with home-based rehabilitation and assessment?	□ Yes	□ No	
76.	Is there access to ongoing rehabilitation at the hospital or at another hospital?	□ Yes	□ No	
77.	Is there a home nursing service available for stroke patients?	□ Yes	□ No	
78.	Is there access to palliative care services?	□ Yes	□ No	

Continuing education, research and quality improvement

79.	Do nursing staff attend continuing education	□	□
	on stroke management?	Yes	No

In the last 2 years, has the stroke team been involved in
quality improvement activities (e.g. quality assurance, local audit, developing strategies)?

Yes
No

Unsure

How would you rate (on a scale '1-10') the support received from hospital management on quality improvement in stroke care? (0 for

none and 10 for exceptional support)

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Thank you for you time in completing the questionnaire.