



IRISH NATIONAL AUDIT OF STROKE

NATIONAL REPORT 2024 AND ORGANISATIONAL AUDIT REPORT 2025 **APPENDICES**



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APPENDIX 1: INAS ORGANISATIONAL AUDIT SURVEY 2025



1. Hospital Details

INAS ORGANISATIONAL AUDIT SURVEY MARCH 2025

* 1. What is the name of your hospital? Please write full name of hospital.	
* 2. Name of person completing the survey.	
* 3. How many beds are in the hospital?	
Please give your answer in a number.	
* 4. Does the hospital run an emergency departmen Please select one answer.	t?
* 5. Does the hospital run an intensive care unit? Please select one answer. Yes	



O No

2. Hospital Details

* 6. Does the l	hospital have a Clini	cal Audit Committee?
Yes		
O No		

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3.	
* 7. Are data from the INAS reports review E.g. quarterly dashboards/annual reports Yes No	ved at the Audit Committee meeting?
INAS Irish National Audit of Stroke	
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4. Stroke Governance	
* 8. How is 'stroke' defined in your hospita'	1
	igns of focal (or global) disturbance of cerebral function, n, with no apparent cause other than that of vascular
	nological, imaging or other objective evidence of infarction. e of symptoms of at least 24 hours or until death
Comment	
* 9. Does the hospital have a Stroke Gover Yes No	nance Committee?
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5.	
* 10. What is the membership of the Stroke Select all that apply.	e Governance Committee?
Stroke Consultant	Senior HSCP Representative
Patient Representative	Quality Manager
Senior Accountable Hospital Manager	Stroke Registrar/Fellow

Representation from Radiology

Senior Nursing Representative

Other (please specify)

* 11. How frequently does the committee meet? Select one option.
Monthly
Quarterly
Twice annually
Annually
Other (please specify)
* 12. Do INAS reports form part of the agenda? E.g. INAS Dashboards and Annual reports Yes
No
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6. Stroke Unit Activity
* 13. Does your hospital have a stroke unit? Please see additional information for stroke unit definition. Please select one option. Yes No
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* 14. In total, how many stroke unit beds are in the hospital? Please answer in a number. Please see additional information sheet for further information on stroke unit bed types.
and the types.
* 15. How many patients with stroke are there in the hospital on the day of form completion? Please answer in a number.

* 16. How many of the p Please answer in a num		roke are in a stroke unit b	oed?
INAS Irish	n National lit of Stroke		
INAS ORGANISAT	IONAL AUDI'	ΓSURVEY MARCH 202	2 5
8. Acute Presentation	1		
* 17. Is there a stroke Select one option.	team on-call?		
Yes, 24/7			
Yes, Monday-Friday	9am-5pm		
O No			
Other (please specify)			
* 18. Do vou ever use	video tele-heal	th to review patients wit	h your ambulance crews?
Please select one ans		F	- ,
Yes			
○ No			
* 19. Does the stroke tea suspected stroke? Select one option for ea		rive a pre-alert from the an	nbulance service for
	Yes	No	Sometimes
Thrombolysis candidates only		0	0
All FAST positive cases			\bigcirc
All suspected stroke			

cases

select only one.	
Oirect to Emergency Department	
Stroke Nurse Specialist	
Stroke NCHD on call	
Stroke Consultant on call	
CT control room	
Call to Stroke Unit	
No pre-alert	
Other (please specify)	
* 21. Who is the stroke patient normally fi	rst seen by?
Please select only one.	,
ED Nurse	Stroke NCHD
O ED NCHD	Stroke Nurse Specialist
○ ED Consultant	Medical Consultant
Stroke Consultant	Telemedicine link
Comment if required	
* 22. Where are suspected stroke patient Please select one option.	s that arrive by ambulance taken for assessment?
Emergency Department	HDU/CCU/ICU
Stroke Unit	CT Scan
Acute Medical Admission Ward	
Other (please specify)	
* 23. Is there access to CT imaging for particle Please select one answer. Yes, 24/7 Yes, normal working hours only	tients in ED?
○ No	
* 24. Is it consistently possible to get an unthe request? Select one option.	rgent CT scan of the brain within 60 minutes of
Usually	Never
Sometimes	

 $\ ^*$ 20. If the stroke team/hospital receive a pre-alert, who is the call usually made to? Please

25. Is there access to Select one option.	multi-phase CT angiography?	
Yes, 24/7		
Yes, normal working	hours only	
○ No		
* 26. Is there access to Please select one answ	o CT perfusion for patients in ver.	the ED?
Yes, 24/7		
Yes, normal working	hours only	
○ No		
Yes No * 28. Is there an on-call	al use decision-assisted softw radiologist and radiographer for Radiologist and one for R	available to perform brain imaging?
	On site	Off site
On-call Radiologist		
On-call Radiographer	\circ	
* 29. Is there access t	o MRI for patients in ED? wer.	
Yes, 24/7		
Yes, normal working	hours only	
○ No		

Select all that apply. СТ CTA CTP Clinical suspicion of stroke amenable to thrombolysis Clinical suspicion of stroke amenable to thrombolysis &possible thrombectomy Clinical suspicion of stroke but over 4.5 hours since onset of symptoms Clinical suspicion of posterior circulation stroke but not a thrombolysis candidate Clinical suspicion of alternative neurological diagnosis * 31. Who is responsible for initial review of brain imaging to inform decisions about thrombolysis / thrombectomy? Select one option for In hours and one option for Out of hours. In-hours Out of hours Stroke Consultant on site Stroke Consultant remotely via phone Stroke NCHD Neuroradiologist General Radiologist Reporting hub Consultant/Registrar Medical Consultant/Registrar Stroke Consultant at own hospital via telemedicine link Stroke Consultant in region/network via telemedicine link Assisted decision making app

* 30. What initial acute brain imaging do you request for the following?

* 32. If not during initial assessment, is brain imaging subsequently reviewed by a radiologist with a specific competency in neurovascular imaging in the following patient groups?					
Select only one op	tion for each patie	nt group.			
	Yes, always	Yes, sometimes	Yes, rarely	Never	
Thrombolysis patients	0	\circ	0	0	
Large vessel occlusion	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
All stroke patients					
* 33. Do you admit patients with subarachnoid haemorrhage to the stroke unit? Please select one answer. Yes No Sometimes * 34. Do you admit patients with subdural haematoma to your stroke unit? Please select one answer. Yes No Sometimes * 35. To which ward is a patient most likely to be admitted after ED? Select one option for Non thrombolysed patients and one option for Thrombolysed					
	Stroke Unit	CCU/HDU/ICU	Medical Ward	Surgical Ward	
Thrombolysed patients					
Non thrombolysed patients					
INAS	Irish National Audit of Strok	e			
		DIT SURVEY MAR	CH 2025		
9. Thrombolysis					

* 36. Do you provide a thrombolysis service? Select one option.	
Yes, 24/7	
Yes, 9-5 Mon-Fri	
○ No	
Occasionally for patients who self-present or are alre	eady an in-patient.
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10.	
37. Does your hospital have a thrombolysis decisincluding management of arising complications?	
Yes	
○ No	
* 38. What thrombolytic agent do you typically	use?
Alteplase	
Tenecteplase	
Both Alteplase and Tenecteplase	
Dominico una renecceptuac	
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11. Thrombolysis	
* 39. Who normally assesses the patient for through	mbolysis?
○ ED NCHD	Stroke Consultant
© ED Consultant	Medical Consultant
Stroke NCHD	Stroke Nurse Specialist
Other (please specify)	

* 40. Who norm Please select on	-	to proceed w	vith thrombo	olysis?		
() ED NCHD	-			Stroke Consultan	t	
() ED Consultar	nt			Medical Consulta	nt	
Stroke NCHI)			Stroke Nurse Spe	ecialist	
Other (please speci	fy)					
* 41. Where are the Select one option f					Acute Medical Assessment Unit/Medical	Neurology
	Department	CT Scanner	Stroke Unit	CCU/HDU/ICU	Ward	Ward
Bolus						
Infusion						
INAS ORGAN 12. EVT Centre * 42. Are you a Please select or Yes No	Information thrombecton	n	URVEY MA	ARCH 2025		
INAS	Irish Nati Audit of S	onal Stroke				
INAS ORGAN	ISATIONAI	L AUDIT SI	JRVEY MA	ARCH 2025		
13. EVT Centre	Informatio	n				
* 43. What are t Select only one		peration for	your throm	bectomy servi	ice?	
Monday - Fri	day 9-5pm					
O Monday - Fr	iday extended h	ours				
Extended hor	ars including we	eekends				
24/7						

* 44. How many consultant level doctors from your site carry out Select one option only.	thrombe	ectomy?			
1					
3					
4					
5					
<u></u> 6					
7					
8					
* 45. For each of the consultants who perform thrombectomy, pleas	e state th	e number	in		
each specialty.					
This should add up to the same number of consultants as in question	on 43.				
One Two Three Four Five	Six	Seven	Eight		
Interventional neuroradiology					
Vascular interventional 0 0 0 0 0 0 radiology	0	0	0		
Non-vascular interventional radiology					
Cardiologist 0 0 0 0	0	0	0		
Neurosurgeon 0 0 0 0	0	0	0		
Stroke Physician 0 0 0	0	0	0		
Other (please specify)					
INAS Irish National Audit of Stroke					
INAS ORGANISATIONAL AUDIT SURVEY MARCH 2025					
14. Thrombectomy transfer information					
* 46. Do you refer appropriate patients to a thrombectomy centre Select one option only.	e?				
beleet one option only.					
Yes. 24/7					
Yes, 24/7 Yes, In-hours only					
O Yes, In-hours only					



15.

* 47. Which centre do you usually refer paties Please select one answer. Beaumont Hospital Cork University Hospital	nts to for thrombectomy?
* 48. What is your process for IV thrombolysis Select one option only. Tenecteplase given before transfer	s prior to transfer for thrombectomy? Give Bolus and infusion which is continued in
Give Bolus and full infusion before transfer Give Bolus and infusion but stop infusion at point patient ready to be transferred Give Bolus and infusion which is continued in ambulance with support of doctor on transfer	ambulance with support of stroke nurse on transfer Give Bolus and infusion which is continued in ambulance with support of A&E/other nurse or transfer Give Bolus and infusion which is continued in ambulance with support from paramedic crew Process depends on ambulance service conveying patient (i.e. different protocols for different services)
Other (please specify)	

* 49. Who makes the decision to transfer a patient for thrombectomy? Please select **only** one answer for **In-Hours** and one answer for **Out of Hours**.

	In Hours	Out of Hours		
Stroke NCHD making referral to thrombectomy centre				
Stroke Consultant				
General Radiologist				
Neuroradiologist at referring hospital				
Neuroradiologist at Thrombectomy Centre (if different)				
Stroke team at thrombectomy centre				
Remote tele- radiology service off site				
Emergency Department Consultant				
Emergency Department NCHD				
Other (please specify)				
call the ambulance set Select only one option Paramedic crew are	rvice? n. kept on standby and not released in mbolysis is complete	nbectomy centre at what point do you		
* 51. Have you made u	ise of Protocol 37 when trans	sferring patients for thrombectomy?		
○ Yes ○ No				



* 52. Have you experienced delays >30 minutes in awaiting a Protocol 37 ambulance on more than 1 occasion.
Please select one answer.
Yes
○ No
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17. Thrombectomy transfer information
* 53. Has the stroke team used helicopter transfers for thrombectomy patients? Please select one answer.
Yes
○ No
Other (please specify)
Office (prease speeny)
Select only one option. Most patients referred are reviewed with the thrombectomy centre as part of regional MDT Most patients referred are reviewed locally as part of local MDT Informal feedback No regular discussion Other (please specify)
* 55. Do you have an MRI scanner available in your hospital? Please select one. Yes No
* 56. Is MRI scanning available out of hours?
Yes
○ No
○ Sometimes
* 57. If yes, how many out of hours MRIs have you performed on stroke patients in the last 12 months. Please answer in a number.

Please select one option	for In the hospital and one ans	swer for Remotely.
	Yes	No
In the hospital		
Remotely		
Other (please specify)		
* 59. Do you have Tran Please select one.	nscranial Doppler Scanning ava	ailable in your hospital?
Yes		
○ No		
	S scanning available in your hos	spital?
Please select one.		
Yes		
O No		
	Digital Subtraction Angiograph	y in your hospital?
Please select one.		
Yes		
O No		
TNIAC Irish	National	
INAS Irish	it of Stroke	
INAS OPCANISATI	ONAL AUDIT SURVEY MA	PCH 2025
		RCH 2025
18. Stoke Unit inform	ation	
* 62. Is there a policy f Please select one.	for direct admission to the Stro	ke Unit from ED?
Yes		
No		
* 63. Does the stroke u Please select one.	ınit operate an admission criter	ria or limitation?
Yes		
O No		
INIAC Irish	National	
INAS Irish Aud:	it of Stroke	

* 58. Does the stroke service have access to NIMIS?

* 64. If the stroke unit oper Select all that apply.	ates an admission c	riteria what is it?	
	Type 1	Type 2	Type 3
Age related			
Stroke severity			
Pre-existing dementia			
Stroke type			
Maximum duration of stay			
Other (please specify for each typ	pe)		
INAS ORGANISATIO	NAL AUDIT SURV	/EY MARCH 2025	
20.			
* 65. Does the stroke ser Please select one.	rvice have control o	f bed management i	for the stroke unit?
○ No			
* 66. Are patients with cone. Yes No	other diagnoses reg	ularly admitted to tl	ne stroke unit? Please sele
one. Yes No * 67. Do you have writted following:	en Standard Operati		ne stroke unit? Please sele
one. Yes No * 67. Do you have writte following: Please select all that ap	en Standard Operati	ing Procedures or P	rotocols for each of the
one. Yes No * 67. Do you have writted following: Please select all that applications of the select selec	en Standard Operati	ing Procedures or P	rotocols for each of the
one. Yes No * 67. Do you have writter following: Please select all that appropriate the select all that appropriate the select select all that appropriate the select select select select all that appropriate the select sele	en Standard Operati ply	ing Procedures or Procedures o	rotocols for each of the ding community rehabilitation at Management
one. Yes No * 67. Do you have writted following: Please select all that applications of the select selec	en Standard Operati ply	ing Procedures or Procedures o	rotocols for each of the

following:		Init allow for cor	ntinuous monitoring of the
Please select all that	apply.		
ECG		Pulse Oxim	etry
Breathing		Blood Gluco	ose Monitoring
Blood Pressure		Temperatur	re
* 69. What type of beds	make up the stroke uni	t?	
Type 1 = Acute stroke b	eds.		
Type 2 = Rehabilitation s			
Type 3 = Combined Acut	e and Rehabilitation st	roke beds.	
See additional information Please select all that app		ı.	
	Number of beds	Nu	mber of beds with continuous physiological monitoring
Type 1 -Acute stroke beds	\$		\$
Type 2 - Rehabilitation stroke beds	•		•
Type 3 - Combined Acute and Rehabilitation stroke beds	•		•
* 71. How often are there	multidisciplinary team	n meetings for the	e interchange of
information about indivi			
Select one option per be	ed type.		
	Type 1	Type 2	Type 3
Daily			
More than once a week	\bigcirc	\bigcirc	\bigcirc
Weekly	\bigcirc		0
* 72. Which indices of st Please select all that app		outinely record o	n admission and discharge?
	Admission	Discharge	3-6 months
Modified Rankin Score			
NIHSS			
Barthel			
Other (please specify)			

* 73. Do you give the patient a formal, writter rehabilitation on discharge? Please select one.	en plan for follow up and continued
Yes	
○ No	
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21. Specialist Investigations	
* 74. What is the usual waiting time for par Please select one.	tients to receive carotid imaging?
The same day (7 days a week)	The next weekday
The same day (6 days a week)	Within a week
The same day (5 days a week)	O Longer than a week
The next day	
Other (please specify)	
* 75. Do you ever image <u>intra-cranial</u> vesse Please select one. Yes No	els for your ischaemic stroke patients?
INAS Irish National Audit of Stroke	
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22.	
* 76. Which of the following best describes Please select one.	s your practice for imaging intra-cranial vessels?
It is a routine investigation for everyone	
Only for patients that would be amenable to sp	pecific treatment if abnormality detected

	or In hours and one option	_
Select one option ic	_	
	In Hours	Out of Hours
CTA		
MRA		
No Service		
* 78. Do you image Please select one. Yes No	e extra cranial vessels for your ish National udit of Stroke	rischaemic stroke patients?
	ATIONAL AUDIT SURVEY	MARCH 2025
23.		
	nodality do you use as a first lin in hours and one option for <u>Ou</u>	ne to image extra-cranial vessels? t of hours.
	In Hours	Out of Hours
Doppler Ultrasound		
CTA		
MRA		
No Service		
* 80. Which of the Please select one.	following best describes your p	practice for imaging <u>extra-cranial</u> vessels?
It is a routine inv	estigation	
Only for patients	that would be amenable to specific to	reatment if abnormality detected
INAS Iri	sh National ıdit of Stroke	
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24. Specialist Investigations contd.

 * 81. What is your usual pathway for detecting paroxysmal atrial fibrillation? Please, select which type is used first, second, third etc.

	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eight	Test not available
HASU telemetry monitoring					\bigcirc	\bigcirc	\bigcirc		
Inpatient 24 hour tape	\bigcirc		\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Outpatient 24 hour tape					\bigcirc		\bigcirc		
Extended cardiac recording: 48 hours				\bigcirc	\bigcirc		\bigcirc		\bigcirc
Extended cardiac recording: 5-7 days									
Reveal/implantable loop recorder	\bigcirc		\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Transdermal patch (e.g. Ziopatch)									
R Test monitor			\bigcirc	\bigcirc	\bigcirc	\bigcirc		\bigcirc	\bigcirc
* 82. In which st Select all that ap In the majorit Patients sugge In patients in Young patient Patients with Patients with Patients with We rarely do of	ply. Ty of patie estive of c Atrial Fil s with sus any abno suspected new hear known he	ents post st cardioembo brillation spicion of F ormal ECG' d valvular lo et failure eart failure	roke llic source PFO s			chocardi	ography?		

Please select one answer.
All patients post stroke
All patients with suspected cardioembolic source on brain imaging
In patients with suspected cardioembolic source but normal ECG and cardiac monitoring.
Patients with suspected cardioembolic source but initial transthoracic echocardiogram (TTE) normal
Patients with a normal echo but suspicion of PFO
Only in patients where we would consider PFO closure.
We have no local access to bubble contrast echo
Young patients with potential PFO
Other (please specify)
* 84. In which patients do you request a TOE (trans-oesophageal echo)?
Please select one.
All patients post stroke
All patients with suspected cardioembolic source on brain imaging
If patient has had a positive bubble contrast echo
We have no local access to TOE.
Other (please specify)
INAS Irish National Audit of Stroke
11 12 10 Audit of Stroke
INAS ORGANISATIONAL AUDIT SURVEY MARCH 2025
11/12 01(011/10/11/01/11/01/11/01/11/01/11/01/11/01/11/01/11/01/0
5.
* 85. Is PFO closure available locally for your stroke patients? Please select one.
Yes
○ No
* 86. Are all patients discussed at a specialist stroke/cardiology MDT before PFO closure is
offered?
Please select one.
Yes
O No

* 83. In which patients do you request a bubble contrast echo?

* 87. In which stroke patients do you request thrombophilia screening? Select one option.
Majority of patients
Only patients under a specific age
Only patients with previous history of previous DVT/ PE /miscarriage None
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26. TIA and Neurovascular Services
* 88. Do you routinely admit patients with TIA to hospital for investigation? Please select one. Yes No
* 89. Are there agreed TIA protocols between Hospital and Primary Care services? Please select one.
* 90. Does your hospital run a TIA/neurovascular clinic? Please select one.
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27.
* 91. Which first line brain imaging modality do you most frequently use in your TIA/neurovascular clinic for suspected TIAs? Select one option
○ CT ○ MRI
Rarely image TIAs

* 92. Which first line carotid imaging modality do you most frequently use in your TIA/neurovascular clinic for suspected TIAs?
Please select one.
Carotid Doppler
○ CTA
○ MRA
Rarely image TIAs
* 93. How frequently do you use this first line brain imaging modality in your TIA/neurovascular clinic for suspected TIAs? Please select one.
Frequently (>70%)
Sometimes (30-70%)
Rarely (<30%)
* 94. Is carotid endarterectomy surgery performed within the hospital? Please select one.
Yes
○ No
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28. Carotid Stenosis Treatment
* 95. Which hospital do you send your patients to? Please give full name of the hospital.
* 96. Is there a formal arrangement in place with an endovascular centre / vascular servi for transfer of your patients? Please select one.
Yes
○ No
* 97. Have patients undergone carotid stenting in the last 12 months? Please select one.
Yes
O No

* 98. In which hospital a		performed?	
INAS Iris	h National dit of Stroke		
		SURVEY MARCH 2025	
29. Human Resource	S		
* 99. Is there an Adva Please select one. Yes No	anced Nurse Prac	etitioner in stroke?	
INAS Iris	h National dit of Stroke		
INAS ORGANISAT	ΓΙΟΝΑL AUDIT	SURVEY MARCH 2025	
30. Advanced Nurse	Practitioners		
* 100. How many St Please select one.	roke ANPs are in	your service?	
1			
<u>2</u>			
○ 3			
* 101. What services ar		ANP Stroke?	
Please select all that ap			
D	Inpatient	Outpatient	Community
Direct patient care/Emergency response			
Patient education			
Staff education			
Clinics			П
Service development			
Therapy planning			
Long term patient support			
Other (please specify)			



31. Human resourc	es contd.		
Please select one. Yes No	inical Nurse Special	list in Stroke?	
INAS Iri	adit of Stroke		
INAS ORGANISA	ATIONAL AUDIT S	SURVEY MARCH 2025	
32. Clinical Nurse S	Specialists		
* 103. How many S Please select one. 1 2 3 4 104. What services a			
	Inpatient	Outpatient	Community
Direct patient care/Emergency response			
Patient education			
Staff education			
Clinics			
Service development			
Therapy planning			
Long term patient support			
Other (please specify)			
		I I	



33. Human Resources contd.

* 105. How many RGNs are allocated to the stroke unit per 24hrs? Monday to Friday Please see additional notes for further explanation. Please select one response.
O 0.5
O 1
0 1.5
O 2
2.5
O 3
3.5
O 4
O 4·5
O 5
O 5-5
O 6
106. How many RGNs are allocated to the stroke unit per 24 hours? Weekends. Please select the number.
O 0.5
O 1
0 1.5
O 2
2.5
O 3
3.5
O 4
O 4·5
O 5
5.5
O 6

* 107. How many HCAs are allocated to the stroke unit per 24hrs? Monday to Friday
Please select one.
Please see additional information.
o
O.5
<u> </u>
<u> </u>
<u>2</u>
2.5
\bigcirc 3
108. How many HCAs are allocated to the stroke unit per 24 hours? Weekends
\bigcirc o
O.5
<u> </u>
<u> </u>
<u>2</u>
2.5
\bigcirc 3
* 109. How many RGNs on the stroke unit are trained in swallow screening? Please select one option.
* 110. How many RGNs on the stroke unit are trained in stroke assessment and
management?
Please select one.
•
* 111. Does your unit have its own Portering staff to support nursing? Please select one.
Yes
○ No
* 112. Medical Staffing: Is there a specialist 'Stroke Service' working independently of other clinical roles or responsibilities. Please select one.
Yes
○ No

		t knowledge of stroke who is formally
recognised as naving pr Please select one.	rinciple responsibility for str	oke services?
Yes		
○ No		
Vacant post		
O vacant post		
* 114. How many doctors Please select all that apply	make up the medical team y.	for the stroke service?
	Number	WTE spent on stroke
Stroke consultant providing daytime cover	\$	\$
Other Consultant contributing to the service (e.g. on call)	\$	•
Specialist registrar	\$	*
Registrar	\$	\$
Senior House Officer	\$	\$
Intern	\$	\$
Please comment if required.		
* 115. Which Medical spec Select all that apply.	cialisms contribute Consul	tant Cover to the Stroke Service?
	In Hours	Out of Hours
Geriatrics		
Neurology		
General Medicine		
Clinical Pharmacology		
Other (please specify)		_
	a stroke usually transferred sion? Please select one.	d to the care of the stroke team/stroke
Usually		
Sometimes		
Rarely		
Never		

* 117. What is the establishment of whole time equivalents (WTEs) of the following professionals?

Please refer to additional information for more information.

	Number of whole time equivalents (WTE) designated for stroke care.	Proportion of <u>additional</u> WTE from other staff delivering stroke care.	Total WTE
Clinical psychologist	\$	*	\$
Dietitian	•	•	•
Medical social worker	•	+	\$
Occupational therapist	•	\$	\$
Physiotherapist	+	\$	\$
Speech and language therapist	•	\$	\$
Other (please specify)			
* 118. What is the Select all that app	Does the professional attend		Is there a professional
on: : 1	weekly MDT meetings?	Is weekend cover available?	Clinical Specialist?
Clinical Psychologist			
Dietician			
Medical social worker			
Occupational therapist			
Physiotherapist			
Speech and language therapist			
* 119. Do patie Select all that a	nts have access to the pro	ovision of the following a	spects of care?
Mood screen			
Psychology led mood assessment and intervention Higher cognitive function assessment			
Higher cognitive function assessment Mood treatment			
Higher cognitive function treatment			
Specialist spasticity management service			
Neuromuscular electrical stimulation service			
Digital therapies for people with aphasia e.g. apps/tablet based interventions Orthoptist service			
	owice.		

Please select all that apply. WTE Physiotherapy \$ Assistant Occupational \$ Therapy Assistant Speech and Language Therapy Assistant Other (please specify) * 121. Are there other members of the MDT not mentioned above? Please select one. O Yes O No INAS Irish National Audit of Stroke INAS ORGANISATIONAL AUDIT SURVEY MARCH 2025 34. 122. If yes, what is their responsibility? INAS Irish National Audit of Stroke INAS ORGANISATIONAL AUDIT SURVEY MARCH 2025 35. Education and training * 123. Is there an in-house programme for the continuing education in management of stroke? Please select one. O Yes O No 124. Is there an in-house programme for the identification and management of patients who have a stroke while already an in-patient with another condition? Please select one. Yes No

* 120. What is the compliment of therapy assistants for each of the following:

* 125. Is there a policy that all staff should complete the 'STARS' programme?
Please select one.
Yes
○ No
* 126. Is there a swallow screening training programme available? Please select one.
Yes, local training programme
Yes, HSELanD training programme
Yes, other
No, none available
* 127. What members of the stroke team have availed of the swallow screen training
programme?
Please select all that apply.
Stroke unit nurses
Emergency department nurses
Other ward nurses
Doctors
Speech and language therapists
* 128. Is there funding available locally for staff education or conference attendance? Please select one.
Yes
○ No
* 129. Is there an educational programme for inpatients and carers? Please select one.
Yes
○ No
* 130. Is there patient/ carer material easily available on the Stroke Unit/ Wards? Please select one.
Yes
○ No



* 131. Is the patient/carer information available in accessible formats e.g. aphasia friendly. Please select one.
Yes, most information is available in accessible formats
Yes, some information is available in accessible formats
○ No
INAS Irish National Audit of Stroke
INAS ORGANISATIONAL AUDIT SURVEY MARCH 2025
37. Discharge Planning
* 132. Are stroke specific patient satisfaction surveys carried out by your service? Please select one.
○ Yes
○ No
Other (please specify)
INAS Irish National Audit of Stroke
INAS ORGANISATIONAL AUDIT SURVEY MARCH 2025
38.
* 133. If yes, are patient satisfaction survey results discussed at the Stroke Governance Committee? Please select one.
Yes
No
No Stroke Governance Committee
N/A
INAS Irish National Audit of Stroke
INAS ORGANISATIONAL AUDIT SURVEY MARCH 2025

39. Patient information

* 134. Is there information literature available Select all that apply.	for patients on the following:
Patient/carer information literature on stroke	Carers benefit/allowance
Patient versions of national or local guidelines	Local voluntary agencies
or standard	How to complain
Community services	
* 135. Does the stroke service have formal lin for communication on the service? Please select one.	nks with patients' and carers' organisations
Yes	
○ No	
* 136. Is there a stroke support group availab Please select one.	ble locally for patients?
Yes	
○ No	
* 137. Is there a policy to give patients a named community? Please select one.	d contact on transfer from hospital to
Yes No	
No	
* 138. Have you made use of the Irish Heart For patients? Please select one.	oundation online support services for stroke
Yes	
○ No	
* 139. Have you access to an Early Supported Please select one.	l Discharge team for Stroke?
Yes	
○ No	
INAS Irish National Audit of Stroke	
INAS ORGANISATIONAL AUDIT SURVI	EY MARCH 2025
).	
40. When did your ESD service commence? ease record the month and the year.	
case record the month and the year.	

* 141. What is the ESD team complement? Please record the number in both columns. Number of WTE resourced. Number of WTE in post. Physiotherapist \$ \$ Occupational therapist Speech and Language therapist Nurse Therapy assistant Medical social worker Other (please specify) * 142. Does a member of the ESD team attend the stroke MDT meetings in the hospital? Please select one. O Yes) No * 143. What is the standard provision of ESD? Please select one. Four to eight weeks Up to three months As long as required. * 144. What proportion of ESD services is provided face to face? Please select one option. **100%** >75%) 50%-75% 25% -50% <25% 145. Can you provide a next working day service to patients being discharged on ESD?

146. Can you provide ESD input for a minimum of five days per week if required by

Yes
No

patients?

Yes

No

* 147. Does your ESD services have a defined geographical parameter? Please select one.
Yes
○ No
INAS Irish National Audit of Stroke
INAS ORGANISATIONAL AUDIT SURVEY MARCH 2025
41. Community Rehabilitation
* 148. Have you access to other community rehabilitation services or teams that can be accessed for stroke patients? Please select one.
INAS Irish National Audit of Stroke
INAS ORGANISATIONAL AUDIT SURVEY MARCH 2025
42.
* 149. Please list the community rehabilitation services or teams you can access.
INAS Irish National Audit of Stroke
INAS ORGANISATIONAL AUDIT SURVEY MARCH 2025
43.
* 150. Has a Senior Accountable Hospital Manager seen and approved the information submitted in this survey? Please select one.
Yes
○ No
* 151. Please name the person who has reviewed the survey.



INAS ORGANISATIONAL AUDIT SURVEY MARCH 2025

44. Thank you for your time in completing the survey.

APPENDIX 2: INAS GOVERNANCE COMMITTEE MEMBERS AND MEETING ATTENDANCE 2024

Representative	Name	22.03.24	14.06.24	20.09.24	22.11.24
Senior Accountable Healthcare Manager	Sinead Brennan	х	х	х	х
Clinical Expert- Irish Gerontology Society	Dr Tim Cassidy	Chair	Chair	Chair	x
National Clinical Programme for Stroke: Programme Manager	Sinead Coleman	✓	√	х	x
Clinical Expert- National Stroke Programme Clinical lead	Prof Ronan Collins	х	х	√	х
Clinical Expert: Consultant Interventional Neuroradiologist	Dr Mathew Crockett	x	x	Р	x
Healthcare Professional Expert-CNS Stroke	Elaine Crosby	✓	x	✓	√
Healthcare Professional Expert: Hospital Group Director of Nursing	Paul Gallagher	✓	х	х	х
Healthcare Pricing Office	Marie Glynn	✓	√	✓	√
Clinical Lead - Irish National Audit of Stroke	Prof Joe Harbison	✓	✓	✓	Chair
Healthcare Professional Expert-CNS stroke/thrombectomy	Julie Lynch	✓	√	✓	х
Cardiovascular Programme Audit Manager	Joan McCormack	√	√	√	√
Healthcare Professional Expert-ANP/CNS Stroke	Una Moffat	х	√	√	√
Clinical Expert - Clinical Advisory Group-Stroke	Dr Margaret O'Connor	x	✓	✓	х
Healthcare Professional Expert-National Health and Social Care Professions Office	Claire Prendergast	√	✓	√	√
Public and Patient Interest Representative - Irish Heart Foundation	Martin Quinn	✓	х	х	√
NOCA Executive Director-non member	Collette Tully	✓	х	х	COD
Public and Patient Interest Representative - Headway	Edel Wilson	х	√	√	х

Attended = ✓

Did not attend = x

Not Applicable = n/a

Retired = R

Proxy = P

APPENDIX 3: IRISH NATIONAL AUDIT OF STROKE METHODOLOGY 2024

BACKGROUND

In 2012, the National Stroke Programme (NSP) developed the National Stroke Register (NSR) in partnership with the Health Research and Information Division of the Economic and Social Research Institute (ESRI) to measure the effect of the implementation of the Stroke Model of Care (Health Service Executive, 2012). The NSR was governed by the NSR Steering Group. In 2019, governance of the NSR was transferred to NOCA and it was renamed the Irish National Audit of Stroke (Figure 1).

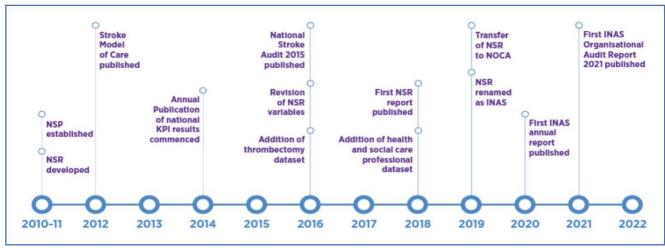


FIGURE 1: EVOLUTION OF THE IRISH NATIONAL AUDIT OF STROKE

THE IRISH NATIONAL AUDIT OF STROKE GOVERNANCE

The Irish National Audit of Stroke (INAS) is a clinically led, web-based audit that measures the care provided in hospital to patients with a stroke against the National Clinical Guideline for Stroke for the UK and Ireland (Intercollegiate Stroke Working Party, 2023). The INAS Governance Committee (link to INAS Governance committee) oversees the INAS. Its membership comprises clinical experts, public and patient interest representatives, the Healthcare Pricing Office (HPO), senior accountable healthcare management, and research and specialist bodies. The INAS Governance Committee also ensures that all relevant stakeholders are represented in order to verify that outputs of the audit findings are interpreted appropriately. The Clinical Lead, supported by the NOCA Executive Team, has operational responsibility for implementation of the INAS.

AIM AND OBJECTIVES OF THE IRISH NATIONAL AUDIT OF STROKE

Aim: To con	Aim: To conduct audit of stroke care, including clinical care and service organisation				
Objectives	To maintain a database of all inpatients with a stroke in Ireland in order to drive continuous quality improvement and to deliver the best patient outcomes.				
	To support the collection of high-quality data on all inpatient strokes in Ireland in order to permit local and national reporting of outcomes.				
	To disseminate the outputs of the data in a timely manner to all relevant stakeholders.				
	To benchmark stroke care and outcomes against national and international standards.				
	To support/promote the use of stroke data for quality improvement initiatives at local and national level.				
	To provide data to support and inform national policy for stroke and related conditions.				

METHODS

All patients with ischaemic and haemorrhagic stroke who were treated in public hospitals that provide acute stroke care and that admitted more than 25 patients with a stroke are included in this audit.



DATA SOURCE

Data were sourced via the Hospital In-Patient Enquiry (HIPE) system. HIPE is the principal source of national data on discharges from acute hospitals in Ireland. It collects demographic, clinical and administrative data on discharges from, and deaths in, acute public hospitals nationally. Additional stroke-specific data (link to INAS dataset) were collected on patients with a stroke and were submitted from each hospital to the HIPE system via the stroke audit portal. The HIPE data and the INAS data were merged within HIPE to form a final dataset. The INAS dataset comprises clinical data collected on all patients with a stroke; these are known as core clinical data. These data have been collected since 2013 and have evolved, with amendments in 2016, 2020 and 2021. In 2016, additional thrombectomy data collected on patients who receive a thrombectomy in an EVT stroke centre were added to the INAS dataset. In 2018, additional discipline-specific data on health and social care professionals (HSCPs) were also added. The HSCP dataset was developed by the NSP in collaboration with the professional bodies for physiotherapy, occupational therapy, and speech and language therapy. The dataset was piloted in 2017 and the first publication of the data was in 2018 (NSP, 2019). The dataset remains in the implementation phase.



DATA COLLECTION

DATA COLLECTION: CORE CLINICAL DATASET

Each hospital has an audit coordinator and a clinical lead who lead on stroke service governance within the hospital. The audit coordinator, usually an experienced nurse specialising in stroke care, collects the core clinical data and submits them to the stroke audit portal. A list of cases eligible for inclusion can be identified by running a HIPE Discharge Report within the stroke audit portal. Additional cases may be identified manually. Most data are entered retrospectively.

DATA COLLECTION: THROMBECTOMY DATASET

The thrombectomy data are collected on all patients who receive a thrombectomy in an EVT stroke centre. Core clinical data and additional thrombectomy data are entered by the audit coordinators for each patient with a stroke who receives a thrombectomy in either of the two EVT stroke centres (Beaumont Hospital or Cork University Hospital).

DATA COLLECTION: HEALTH AND SOCIAL CARE PROFESSIONAL DATASET

Data are collected by therapists in each hospital and are presented in aggregate form. The HSCP dataset includes data from one hospital that is not eligible to participate in the core clinical dataset, as it provides rehabilitation services (not acute stroke care) to patients with a stroke.



DATA VALIDATION

In 2019, the NOCA Data Analytics and Research team developed a data validation process for the INAS, as follows:

- 1. The HPO issues monthly coverage reports and data extracts to NOCA.
- 2. The data analyst produces a Data Validation Report (DVR) quarterly of any missing information within the data and any data anomalies.
- 3. The DVR is sent to the audit coordinators, who amend the record.



DATA ANALYSIS

HIPE data and INAS data were merged within the HPO to form an anonymised stroke extract. NOCA received the full stroke extract for 2024 from the HPO in April 2025. The analysis was completed by the NOCA Data Analyst following data checks with the HPO. Data from the HIPE/INAS dataset were extracted by the NOCA analyst to form three separate datasets: the core clinical dataset, the thrombectomy dataset and the HSCP dataset. The inclusion and exclusion criteria for all three datasets are presented below. The analysis was conducted using Statistical Package for the Social Sciences (SPSS) V25.



COVERAGE AND COMPLETENESS ANALYSIS

Coverage was defined as the proportion of cases with a principal diagnosis of stroke that had additional clinical data submitted to the stroke audit portal. A final coverage report is collated by the HPO. Any hospital with less than 80% coverage is excluded in the report.

Completeness of variables is measured by the data analyst. All results including missing data and unknowns are included in the report



INCLUSION AND EXCLUSION CRITERIA

Core clinical dataset inclusion criteria are:

Lpatients discharged between 1 January 2024 and 31 December 2024

- II. cases reported on HIPE, using the International Classification of Diseases, Tenth Revision, Australian Modification (ICD-10-AM) codes I61, I63 or I64 as a principal diagnosis¹ (Independent Hospital Pricing Authority, 2017)
- III. patients aged 17 years and over
- IV. Excluding in-hospital stroke cases
- V. all cases with the 'admission to stroke unit' field populated with either '1=Yes' or '2=No' within the stroke audit portal.



Core clinical dataset exclusion criteria are:

- I. patients aged 16 years and under
- II. patients with a HADx stroke code of I61, I63 or I64
- III. patients where the stroke occurred while in hospital with another condition
- IV. patients who had a thrombectomy in Beaumont Hospital or Cork University Hospital and were transferred back to the referring hospital on the same day.

The thrombectomy dataset inclusion criteria are:

I.all cases with the 'thrombectomy' field populated with '1=Yes' within the stroke audit portal

II. patients aged 17 years and over.

The thrombectomy dataset exclusion criterion is:

I.patients aged 16 years and under.

HSCP dataset inclusion criteria are:

I.all cases with '1=Yes' populated for the 'seen by physiotherapist', 'seen by occupational therapist', and/or 'seen by speech and language therapist' fields within the stroke audit portal

II. patients aged 17 years and over.

HSCP dataset exclusion criterion is:

I. patients aged 16 years and under.

NOTES ON INCLUSION AND EXCLUSION CRITERIA

Inclusion criterion IV and exclusion criteria III and IV refer to patients who had a stroke while already an inpatient with another condition (e.g. a stroke event following surgery); this is called 'in-hospital' stroke. The INAS dataset includes the collection of data on patients with in-hospital stroke, but these cases are not included in this report. These cases can be identified if the 'in-hospital stroke' field is populated as 'yes', but only those cases for which this field was populated with 'no' are included in this report. These in-hospital stroke cases can also be identified if a hospital acquired diagnosis (HADx) flag for stroke has been attached to the 'secondary diagnosis' field. These cases are also excluded from the core clinical dataset for this report.

Exclusion criterion IV refers to patients with a stroke who are transferred to an EVT stroke centre for thrombectomy and are then immediately transferred back to the referring hospital. These cases are excluded from the final denominator in the EVT stroke centre within the core clinical dataset, as this would negatively affect the results of the key quality indicators (KQIs) in the EVT stroke centre. For example, these cases would not be included in the analysis of the percentage of cases admitted to a stroke unit because they would not be expected to be admitted to the EVT stroke centre's stroke unit, as they were transferred back to the referring hospital immediately following thrombectomy.

Inclusion criterion V refers to cases where HSCP data were submitted with no associated core clinical data. This may occur if the audit coordinator did not submit data on a case or there was no audit coordinator due to a resourcing issue. In order to exclude these missing data from the core clinical dataset, any case that had no response in the 'admission to stroke unit' field was excluded.

APPENDIX 4: IRISH NATIONAL AUDIT OF STROKE: METADATA FOR COMPOSITE VARIABLES

TABLE 4.4: ACCESS TO BRAIN IMAGING FOR PATIENTS IN THE EMERGENCY DEPARTMENT, BY HOSPITAL

KQI 3: The percentage of patients with ischaemic stroke who receive thrombolysis

Out of all the patients with ischaemic stroke what was the proportion who received thrombolysis therapy.

Analysis:

The total number of patients with ischaemic stroke who received thrombolysis divided by the total number of patients with ischaemic stroke – expressed as a percentage.

Cases were included if:

If patient had an ischaemic stroke (codes: I630, I631, I632, I633, I634, I635, I636, I637, I638, I639, I64)

Cases were excluded if:

If patient was transferred to Beaumont Hospital or Cork University
 Hospital

KQI 5: Median time between hospital arrival time and time of thrombolysis (minutes)

Out of all patients who had thrombolysis performed, what was the median time to thrombolysis therapy.

Analysis:

The difference in minutes between the date/time of hospital arrival and date/time of thrombolysis – expressed as the median.

Cases were included if:

- If patient had an ischaemic stroke (codes: I630, I631, I632, I633, I634, I635, I636, I637, I638, I639, I64)
 - Patient had thrombolysis performed

Cases were excluded if:

- o If patient was transferred to Beaumont Hospital or Cork University Hospital
- o If the date/time of arrival to the hospital and/or thrombolysis date/time was not recorded
- o If the date/time of arrival to the hospital was recorded as after the thrombolysis date/time was performed
- o If the interval between hospital arrival date/time and thrombolysis date/time was more than 24h apart.

TABLE 5.1: NUMBER OF STROKE UNIT BEDS, BY HOSPITAL

KQI 1: Percentage of cases admitted to a stroke unit

Out of all the patients, what was the percentage that were admitted to stroke unit.

Analysis:

The total number of patients admitted to a stroke unit divided by the total number of patients – expressed as a percentage.

KQI 2: Percentage of time patients spent in a stroke unit

Out of the total number of bed days spend in a hospital, what was the percentage of bed days spent in a stroke unit.

Analysis:

The total stroke unit LOS (length of stay: bed days) divided by the total hospital LOS (bed days) – expressed as a percentage.

- For hospital LOS, the HIPE LOS variable was used
- For stroke unit LOS, the stroke unit admission date was subtracted from stroke unit discharge date to calculate the stroke unit LOS.

Cases are excluded if:

recorded

- o Patient was not admitted to a stroke unit
- o If date of admission and/or discharge to the stroke unit was not
- o If the year of admission and/or discharge to the stroke unit deviates from the reported year
 - If stroke unit LOS is bigger than hospital LOS

FIGURE 5.4: CURRENT NURSE STAFFING PER 24 HOURS COMPARED TO THE RECOMMENDED EUROPEAN STROKE ORGANISATION NURSE STAFFING TOTAL PER 24 HOURS, BY HOSPITAL

Figure presents the current nurse staffing per 24 hours with the European Stroke Organisation (ESO) recommended nurse staffing total per 24 hours, by hospital.

The **current nurse staffing per 24 hours** was calculated by summing the number of Registered General Nurses (RGNs) (question 105) and Healthcare Assistants (HCAs) (question 107) allocated to the stroke unit over a 24-hour period, Monday to Friday.

The **ESO recommended nurse staffing total per 24 hours** was derived through the following steps:

1. Estimate monitored beds: Divide the number of annual stroke admissions by 100 to estimate the number of monitored beds required (ESO recommends one monitored bed per 100 admissions annually).

- 2. Estimate non-monitored beds: Subtract the number of monitored beds from the total number of stroke unit beds (question 14) to estimate the number of regular (non-monitored) stroke beds.
- **3.** Calculate staffing for non-monitored beds: Multiply the number of non-monitored beds by 0.5. The ESO recommends 0.5 RGNs per non-monitored bed per 24 hours.
- **4. Calculate staffing for monitored beds**: Multiply the number of monitored beds by 1.5. The ESO recommends 1.5 nurses per monitored bed per 24 hours.
- **5. Total ESO-recommended staffing**: Sum the staffing requirements for monitored and non-monitored beds to obtain the total ESO-recommended nurse staffing per 24 hours.

FIGURE 5.5: TOTAL CURRENT PHYSIOTHERAPIST STAFFING COMPARED TO THE RECOMMENDED PHYSIOTHERAPIST STAFFING, BY HOSPITAL

Figure presents the current and recommended whole-time equivalent (WTE) physiotherapist staffing level by hospital.

The **current WTE** was derived from question 117, which captures the number of WTE physiotherapists designated for stroke care.

The **recommended WTE** was calculated by multiplying number of patients with a stroke present on the day of survey completion (question 15) by 0.18, in line with the national stroke strategy, which recommends 0.18 physiotherapist per stroke bed.

FIGURE 5.6: TOTAL CURRENT OCCUPATIONAL THERAPIST STAFFING COMPARED TO THE RECOMMENDED OCCUPATIONAL THERAPIST STAFFING, BY HOSPITAL

Figure presents the current and recommended whole-time equivalent (WTE) occupational therapist staffing level by hospital.

The **current WTE** was derived from question 117, which captures the number of WTE occupational therapists designated for stroke care.

The **recommended WTE** was calculated by multiplying number of patients with a stroke present on the day of survey completion (question 15) by 0.16, in line with the national stroke strategy, which recommends 0.18 occupational therapist per stroke bed.

FIGURE 5.7: TOTAL CURRENT SPEECH AND LANGUAGE THERAPIST STAFFING COMPARED TO THE RECOMMENDED SPEECH AND LANGUAGE THERAPIST STAFFING, BY HOSPITAL

Figure presents the current and recommended whole-time equivalent (WTE) speech and language therapist staffing level by hospital.

The **current WTE** was derived from question 117, which captures the number of WTE speech and language therapists designated for stroke care.

The **recommended WTE** was calculated by multiplying number of patients with a stroke present on the day of survey completion (question 15) by 0.08, in line with the national stroke strategy, which recommends 0.18 speech and language therapist per stroke bed.

FIGURE 5.8: TOTAL CURRENT DIETITIAN STAFFING COMPARED TO THE RECOMMENDED DIETITIAN STAFFING, BY HOSPITAL

Figure presents the current and recommended whole-time equivalent (WTE) dietitian staffing level by hospital.

The **current WTE** was derived from question 117, which captures the number of WTE dietitians designated for stroke care.

The **recommended WTE** was calculated by multiplying number of patients with a stroke present on the day of survey completion (question 15) by 0.07, in line with the national stroke strategy, which recommends 0.18 dietitian per stroke bed.

FIGURE 5.9: TOTAL CURRENT PSYCHOLOGIST STAFFING COMPARED TO THE RECOMMENDED PSYCHOLOGIST STAFFING, BY HOSPITAL

Figure presents the current and recommended whole-time equivalent (WTE) psychologist staffing level by hospital.

The **current WTE** was derived from question 117, which captures the number of WTE psychologists designated for stroke care.

The **recommended WTE** was calculated by multiplying number of patients with a stroke present on the day of survey completion (question 15) by 0.05, in line with the national stroke strategy, which recommends 0.18 psychologist per stroke bed.

FIGURE 5.10: TOTAL CURRENT MEDICAL SOCIAL WORKER STAFFING COMPARED TO THE RECOMMENDED MEDICAL SOCIAL WORKER STAFFING, BY HOSPITAL

Figure presents the current and recommended whole-time equivalent (WTE) medical social worker staffing level by hospital.

The **current WTE** was derived from question 117, which captures the number of WTE medical social workers designated for stroke care.

The **recommended WTE** was calculated by multiplying number of patients with a stroke present on the day of survey completion (question 15) by 0.1, in line with the national stroke strategy, which recommends 0.18 medical social worker per stroke bed.

APPENDIX 5: NURSE STAFFING IN ACUTE STROKE UNITS

Overview

Nurse staffing in acute stroke units is guided by the nationally endorsed Framework for Safe Nurse Staffing and Skill Mix in General and Specialist Medical and Surgical Care Settings in Adult Hospitals (2018). This framework, implemented across adult acute hospitals, ensures that staffing reflects real-time patient acuity and dependency. The model uses *Nursing Hours per Patient Day* (NHpPD) as a core planning metric. Importantly, this framework encompasses both Registered Nurses and Health Care Assistants (HCAs) with a recommended skill mix of 80:20 (Acute Hospitals).

Nursing Hours per Patient Day (NHpPD) is a measure of the number of nursing care hours required per patient in a 24-hour period. It reflects the complexity, acuity, and dependency of the patient group and is used to align staffing levels with actual care needs. NHpPD is central to the Safe Staffing Framework and underpins evidence-based workforce planning across acute hospital settings.

Staffing Application in Stroke Care

It is advised that stroke wards, including those with high-acuity stroke beds, be staffed in accordance with the *Framework for Safe Nurse Staffing and Skill Mix in General and Specialist Medical and Surgical Care Settings in Adult Hospitals in Ireland, 2018*. Whole-time equivalent staffing requirements shall be determined through the application of the Framework's methodology. The acuity and dependency requirements of patients are measured utilising Nursing Hours per Patient Day (NHpPD). These WTE values must be interpreted in the context of real-time patient needs. Approved WTEs based on static calculations may not fully reflect fluctuating acuity levels. This is consistent with the caution noted below regarding the limitations of static data when planning for or auditing staffing in dynamic clinical environments.

Static Data Alert: Point-in-time staffing data can be misleading. Patient acuity fluctuates frequently, and a snapshot of staff allocation may not represent actual or anticipated care needs. Planning and reporting should always be grounded in dynamic NHpPD assessments, not historical or fixed establishment figures.

Stroke patients present with a range of complex and evolving care needs. NHpPD for stroke patients typically ranges from 4.47 to 8.5, with High Dependency classifications requiring up to 11.62 NHpPD. The Safe Staffing Framework ensures these requirements are appropriately reflected in the ward's staff and skill mix.

- Typical NHpPD: 4.47 8.5 High Dependency NHpPD: Up to 11.62
- Recommended Skill Mix: 80% RN / 20% HCA

TrendCare, the national acuity-based workforce planning system, is the preferred tool for continuously monitoring patient dependency and aligning staffing accordingly. Where TrendCare is not yet operational, sites are using the Safe Staffing Framework with validated local data and comparators to support planning and benchmarking.

Recommendations:

- The National Clinical Programme for Stroke will continue collaborating closely with the National lead for Safe Nurse Staffing and Skill Mix within the Office of the Nursing and Midwifery Services Director (ONMSD). Ongoing collaboration between NCP Stroke, individual hospital sites and the ONMSD to deliver the Safe Staffing framework
- Stroke units/wards should continue the Framework for Safe Nurse Staffing and Skill Mix methodology to identify their workforce requirements
- A Biannual Audit will be carried out by the NCP stroke to reflect the:
 - a. NHpPD required & NHpPD available on Stroke ward/unit on sites with TrendCare in operation
 - b. Nursing WTE required & Nursing WTE available on stroke ward/unit where TrendCare is not in operation

It is acknowledged that other countries apply various models to determine nurse staffing in stroke services. Within Ireland, the nationally agreed Framework for Safe Nurse Staffing and Skill Mix in General and Specialist Medical and Surgical Care Settings in Adult Hospitals in Ireland, 2018. Ensures a consistent, evidence-informed approach tailored to patient complexity

Conclusion

Nurse staffing in acute stroke units/wards must be flexible, evidence-based, and responsive to patient acuity and dependency requirements. The Framework for Safe nurse Staffing and Skill Mix remains the national policy to achieving this, its consistent use is key to delivering high-quality, safe, and equitable stroke care across Ireland.

Document References

Department of Health (2018). Framework for Safe Nurse Staffing and Skill Mix in General and Specialist Medical and Surgical Care Settings in Adult Hospitals in Ireland

INAS Organisational Report (2021)



Document	NOCA Audit Process Data Quality
Name	Assessment
Document No	TEM 13
Version No	1
Active Date	01/11/2021

APPENDIX 6: INAS DATA QUALITY STATEMENT 2024

Audit	Irish National Audit of Stroke
Purpose	Illustrate the data quality processes which the audit/ national data collection will apply in the year ahead.
Effective from	01 /01/ 2024 - 31/12/2024
Developed by	Joan McCormack
Date	9/2/24
Approved by	QA and Operations Manager / Designee
Date	



Document	NOCA Audit Process Data Quality
Name	Assessment
Document No	TEM 13
Version No	1
Active Date	01/11/2021

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Relevant data meets the current and potential future needs of users.

Characteristic	Criteria	Assessment	
Release and use	Are regular assessments carried out to determine whether all of the data that is being collected is being used?	Yes No	
of data	Has a list of key users and their use of the data been compiled, including unmet user needs?	Yes No Partially	
	Is this reviewed annually?	Yes No Partially	
	Are data users consulted to establish if the data available assists them in achieving their objectives?	Yes No	
Value of data	Are quality improvement plans in place to address required improvements in the data in order to ensure the data remains relevant to users?	Yes No Partially	
Adaptability of	Are procedures in place to gather information on the potential future needs of data users?	Yes No Partially	
the data source	Are data user needs prioritised as a result, of consultation undertaken with data users about how the data relates to their needs?	Yes No	

Additional comment

INAS is participating in a research led revision of the dataset. This is due to be completed in 2024 and the governance committee will agree any changes to the current dataset based on the results.



Document	NOCA Audit Process Data Quality
Name	Assessment
Document No	TEM 13
Version No	1
Active Date	01/11/2021

Accuracy and Reliability

The accuracy of data refers to how closely the data correctly describes what it was designed to measure. Reliability refers to whether that data consistently measures, over time, the reality that it was designed to represent.

Characteristic	Criteria	Assessment	
	Are details of the reference population explicitly stated in all information releases and is the coverage of the population quantified?	Yes No Partially	
Coverage	Are significant coverage issues that may impact analysis and interpretation of data documented and made available to users?	Yes No N/A	
	Are processes in place to identify and handle duplicate and potential duplicate records within the data?	Yes No Partially	
Data capture and collection	Are issues with the quality of data submitted that have the potential to impact significantly on analysis and interpretation of that data addressed and documented for users of the data?	Yes No N/A	
Data processing	Are data validation processes applied consistently and are the processes documented for data users?	Yes No Partially	
Completeness and validity	Are rates of valid, invalid, missing and outlier values documented and updated routinely and reported with each data release?	Yes No Partially	
Revisions	Are revisions or corrections made to the data regularly analysed to ensure effective statistical use of same?	Yes No	
Additional commer Attaching the IHI to	the HIPE records is a recommendation of the 2021 report.		



Document	NOCA Audit Process Data Quality
Name	Assessment
Document No	TEM 13
Version No	1
Active Date	01/11/2021

Timeliness and Punctuality

Timely data is collected within a reasonable agreed time-period after the activity that it measures. Punctuality refers to whether data are delivered or reported on the dates promised, advertised or announced.

Characteristic	Criteria	Assessment	
Submission	Are procedures in place to ensure the effective and timely submission of data from providers?	Yes No	
timeliness	Are agreements in place with data providers, which detail planned dates for submission of data?	Yes No	
	Are follow-up procedures in place to ensure timely receipt of data, including procedures to address necessary improvements?	Yes No	
Processing timeliness	Are data processing activities regularly and systematically reviewed to improve timeliness and has an associated action plan been developed and implemented?	Yes No	
	Has a data release policy and procedures document, which includes targets for timeliness, been developed, published and implemented? Does the policy describe revisions for key outputs that are subject to scheduled revisions?	Yes No Partially	
Release timeliness and punctuality	Do planned releases occur within a specified period of time from the end of the reference period?	Yes No	
	In the event of delays affecting a planned release, are delays and causes documented and made available to data users?	Yes No Partially	
	Is an up-to-date release calendar publicly available?	Yes No	
Additional community Free text for add	nent litional supporting information		



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Coherence and Comparability

Coherent and comparable data is consistent over time and across providers and can be easily combined with other sources.

Characteristic	Criteria	Assessment	
	Is data collected in line with national and international	Yes	\boxtimes
	standards and classifications?	No	
		Partially	
Standardisation	Is a data dictionary available?	Yes	\boxtimes
		No	
	If yes, is it publicly available?"	Yes	
		No	\boxtimes
	Is aggregated data compared with other sources of data,	Yes	\boxtimes
	for example, administrative data, that provide the same	No	
Coherence	or similar information on the same phenomenon?		
	Are divergences identified and clearly explained to data	Yes	\boxtimes
	users?	No	
	Are historical changes/trends in the data documented	Yes	\boxtimes
	and publicly available for data users?	No	
Historical		N/A	
Historical	Are any changes in the data/trends that can potentially	Yes	\boxtimes
comparability	have a significant impact on interpretation and analysis	No	
	of data, that is, changes to key elements of the data set,	N/A	
	documented and available for data users?		
Pogional	Is the impact of any identified differences in data across	Yes	\boxtimes
Regional	regions documented?	No	
comparability		N/A	
Additional commer Data dictionary det	ails start and end dates of all variables.		



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Accessibility and Clarity

Data are easily obtainable and clearly presented in a way that can be understood.

Characteristic	Criteria	Assessment	
Accessibility	Are data available to users in a form that facilitates proper interpretation and meaningful comparisons?	Yes No	
	Is ICT effectively used to disseminate data and information?	Yes No	
Interpretability	Are supporting documents, for example, metadata, publicly available to facilitate clarity of interpretation for data users?	Yes No Partially	
	Does a revision policy exist which covers all data and is it available to data users?	Yes No Partially	
Additional commer Free text for addition	onal supporting information		



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Data Quality	
Improvement plan	1

Improvement plans for timeframe of this Data Quality statement

Driver	Improvement action	Lead	Due by
Rationale for improvement, Should	Should be action orientated	NOCA lead	Expected completion
reference data quality dimension			date

Reference

Health Information and Quality Authority (2018) Data Quality Assessment Tool for health and social care. Available from: https://www.hiqa.ie/reports-and-publications/health-information/guidance-data-quality-framework-health-and-social-care [Accessed on: 31st August, 2021]

APPENDIX 7: FREQUENCY TABLES

FIGURE 5.1: MEMBERSHIP OF THE STROKE GOVERNANCE COMMITTEE (n=19)

	N	%
Stroke consultant	18	94.7%
Senior nursing representative	18	94.7%
Senior HSCP representative	17	89.5%
Senior accountable hospital manager	14	73.7%
Representation from radiology	13	68.4%
Stroke registrar/fellow	11	57.9%
Quality manager	9	47.4%
Total number of hospitals	19	100.0%

FIGURE 5.2: HEALTHCARE PROFESSIONAL RESPONSIBLE FOR THE INITIAL REVIEW OF BRAIN IMAGING TO INFORM DECISIONS ABOUT THROMBOLYSIS/THROMBECTOMY

Fixed	In-hours		Out of hours	
	n	%	n	%
Stroke consultant on site	9	31.0%	0	0.0%
Stroke consultant remotely via phone	0	0.0%	5	19.2%
Stroke NCHD	2	6.9%	1	3.8%
Neuroradiologist	2	6.9%	2	7.7%
General radiologist	14	48.3%	15	57.7%
Reporting hub	1	3.4%	1	3.8%
ED consultant/registrar	0	0.0%	0	0.0%
Medical consultant/registrar	0	0.0%	2	7.7%
Stroke consultant at own hospital via telemedicine link	0	0.0%	0	0.0%
Stroke consultant in region/network via telemedicine	0	0.0%	0	0.0%
Assisted decision making app	1	3.4%	0	0.0%
Total	29	100.0%	26	100.0%

FIGURE 5.3: HEALTHCARE PROFESSIONAL WHO MAKES THE DECISION TO TRANSFER THE PATIENT FOR THROMBECTOMY

	In-hours		Out-of-hours	
	n	%	n	%
Stroke non-consultant hospital doctors	1	4.8%	1	5.0%
Stroke consultant	10	47.6%	9	45.0%
Neuroradiologist at referring hospital	3	14.3%	2	10.0%
Neuroradiologist at endovascular thrombectomy centre	6	28.6%	7	35.0%
Stroke team at thrombectomy centre	1	4.8%	1	5.0%
Total	21	100.0%	20	100.0%

FIGURE 6.3: MEDICAL SPECIALTIES CONTRIBUTING TO PROVIDING STROKE SERVICE COVER (N=24)

	In-hours		Out-of-hours		Total
Geriatric medicine	20	83%	16	67%	24
Neurology	6	25%	6	25%	24
General medicine	8	33%	11	46%	24
Clinical pharmacology	2	8%	2	8%	24

FIGURE 6.1: NUMBER OF STROKE UNIT BEDS (N=244) IN COMPARISON TO NUMBER OF PATIENTS WITH A STROKE BY HOSPITAL

	Number of stroke unit beds available	Number of patients with a stroke in the hospital on the day of survey completion
Bantry General Hospital	4	5
Beaumont Hospital	26	34
Cavan General Hospital	8	6
Connolly Hospital	10	23
Cork University Hospital	31	42
Letterkenny University Hospital	8	10
Mater Misericordiae University Hospital	18	18
Mayo University Hospital	12	9
Mercy University Hospital	6	7
Naas General Hospital	10	14
Our Lady of Lourdes Hospital Drogheda	10	26
Portiuncula University Hospital	4	3
Regional Hospital Mullingar	4	10
Sligo University Hospital	10	10
St James's Hospital	6	26
St Luke's General Hospital, Carlow/Kilkenny	6	6
St Vincent's University Hospital	10	22
Tallaght University Hospital	9	25
Tipperary University Hospital	12	14
University Hospital Galway	10	19
University Hospital Kerry	4	19
University Hospital Limerick	15	28
University Hospital Waterford	7	17
Wexford General Hospital	4	13
Total	244	406

FIGURE 6.2: NUMBER OF STROKE UNIT BEDS (N=244) COMPARED WITH THE NUMBER OF STROKE UNIT BEDS OCCUPIED BY PATIENTS WITH A STROKE (n=219), BY HOSPITAL

	Number of stroke unit beds available	Number of patients with a stroke in a stroke unit bed
--	--	--

Bantry General Hospital	4	4
Beaumont Hospital	26	26
Cavan General Hospital	8	6
Connolly Hospital	10	8
Cork University Hospital	31	28
Letterkenny University Hospital	8	8
Mater Misericordiae University Hospital	18	14
Mayo University Hospital	12	9
Mercy University Hospital	6	5
Naas General Hospital	10	10
Our Lady of Lourdes Hospital Drogheda	10	10
Portiuncula University Hospital	4	1
Regional Hospital Mullingar	4	2
Sligo University Hospital	10	10
St James's Hospital	6	6
St Luke's General Hospital, Carlow/Kilkenny	6	5
St Vincent's University Hospital	10	8
Tallaght University Hospital	9	8
Tipperary University Hospital	12	12
University Hospital Galway	10	10
University Hospital Kerry	4	4
University Hospital Limerick	15	15
University Hospital Waterford	7	6
Wexford General Hospital	4	4
Total	244	219

FIGURE 6.3: MEDICAL SPECIALTIES CONTRIBUTING TO PROVIDING STROKE SERVICE COVER (N=24)

	Normal wo	rking hours	Out-	of-hours	Total
Geriatric medicine	20	83%	16	67%	24
Neurology	6	25%	6	25%	24
General medicine	8	33%	11	46%	24
Clinical pharmacology	2	8%	2	8%	24

FIGURE 6.4: CURRENT NURSE STAFFING PER 24 HOURS COMPARED TO THE RECOMMENDED EUROPEAN STROKE ORGANISATION NURSE STAFFING TOTAL PER 24 HOURS, BY HOSPITAL

	Current nurse staffing per 24 hours	ESO recommended nurse staffing total per 24 hours
Bantry General Hospital	2.5	2.7
Beaumont Hospital	15	19.0
Cavan General Hospital	2	5.6
Connolly Hospital	3.5	8.0
Cork University Hospital	9	22.9
Letterkenny University Hospital	6	6.0
Mater Misericordiae University Hospital	14	12.9
Mayo University Hospital	4.5	8.4

Mercy University Hospital	3.5	3.9
Naas General Hospital	5	6.9
Our Lady of Lourdes Hospital Drogheda	5.5	8.1
Portiuncula University Hospital	3	2.7
Regional Hospital Mullingar	2	3.8
Sligo University Hospital	4.5	7.7
St James's Hospital	5.5	6.1
St. Luke's General Hospital Kilkenny	2.5	4.9
St. Vincent's University Hospital	5	9.4
Tallaght University Hospital	5	8.6
Tipperary University Hospital	5.5	7.6
University Hospital Galway	5	8.7
University Hospital Kerry	3	4.6
University Hospital Limerick	13	12.8
University Hospital Waterford	3.5	5.6
Wexford General Hospital	4	3.8
Total	132	191

FIGURE 6.5: TOTAL CURRENT PHYSIOTHERAPIST STAFFING COMPARED WITH THE PHYSIOTHERAPIST STAFFING RECOMMENDED BY THE *NATIONAL STROKE STRATEGY 2022-2027*, BY HOSPITAL

	Current WTE physiotherapists	Recommended WTE physiotherapists
Bantry General Hospital	1	0.9
Beaumont Hospital	3	6.12
Cavan General Hospital	1	1.08
Connolly Hospital	1	4.14
Cork University Hospital	4	7.56
Letterkenny University Hospital	1	1.8
Mater Misericordiae University Hospital	3	3.24
Mayo University Hospital	1.2	1.62
Mercy University Hospital	0.3	1.26
Naas General Hospital	1.5	2.52
Our Lady of Lourdes Hospital Drogheda	2	4.68
Portiuncula University Hospital	0	0.54
Regional Hospital Mullingar	0.7	1.8
Sligo University Hospital	1.5	1.8
St James`s Hospital	2	4.68
St. Luke`s General Hospital Kilkenny	0.8	1.08
St. Vincent's University Hospital	2.3	3.96
Tallaght University Hospital	4.5	4.5
Tipperary University Hospital	0.2	2.52
University Hospital Galway	1.4	3.42
University Hospital Kerry	1.5	3.42
University Hospital Limerick	3	5.04
University Hospital Waterford	0.5	3.06
Wexford General Hospital	0.6	2.34
Total	38.0	73.08

FIGURE 6.6: TOTAL CURRENT OCCUPATIONAL THERAPIST STAFFING COMPARED WITH THE OCCUPATIONAL THERAPIST STAFFING RECOMMENDED BY *THE NATIONAL STROKE STRATEGY 2022-2027*, BY HOSPITAL

	Current WTE occupational therapists	Recommended WTE occupational therapists
Bantry General Hospital	1	0.8
Beaumont Hospital	2	5.44
Cavan General Hospital	0	0.96
Connolly Hospital	0.5	3.68
Cork University Hospital	4	6.72
Letterkenny University Hospital	1	1.6
Mater Misericordiae University Hospital	3	2.88
Mayo University Hospital	0.6	1.44
Mercy University Hospital	0.2	1.12
Naas General Hospital	1	2.24
Our Lady of Lourdes Hospital Drogheda	1.5	4.16
Portiuncula University Hospital	0	0.48
Regional Hospital Mullingar	1	1.6
Sligo University Hospital	1	1.6
St James's Hospital	1.5	4.16
St. Luke`s General Hospital Kilkenny	0.8	0.96
St. Vincent`s University Hospital	3.5	3.52
Tallaght University Hospital	2	4
Tipperary University Hospital	1	2.24
University Hospital Galway	1.5	3.04
University Hospital Kerry	1.5	3.04
University Hospital Limerick	0.3	4.48
University Hospital Waterford	0.5	2.72
Wexford General Hospital	0.5	2.08
Total	29.9	65.0

FIGURE 6.7: TOTAL CURRENT SPEECH AND LANGUAGE THERAPIST STAFFING COMPARED WITH THE SPEECH AND LANGUAGE THERAPIST STAFFING RECOMMENDED BY THE *NATIONAL STROKE STRATEGY 2022-2027*, BY HOSPITAL

	Current WTE speech and language therapists	Recommended WTE speech and language therapists
Bantry General Hospital	0.5	0.4
Beaumont Hospital	1	2.72
Cavan General Hospital	0.5	0.48
Connolly Hospital	0.4	1.84
Cork University Hospital	3	3.36
Letterkenny University Hospital	0.2	0.8
Mater Misericordiae University Hospital	2	1.44
Mayo University Hospital	2	0.72
Mercy University Hospital	0.2	0.56
Naas General Hospital	0.5	1.12
Our Lady of Lourdes Hospital Drogheda	0.5	2.08
Portiuncula University Hospital	0	0.24

Regional Hospital Mullingar	0.5	0.8
Sligo University Hospital	1	0.8
St James`s Hospital	1	2.08
St. Luke`s General Hospital Kilkenny	0.8	0.48
St. Vincent's University Hospital	2	1.76
Tallaght University Hospital	2.5	2
Tipperary University Hospital	1.2	1.12
University Hospital Galway	1	1.52
University Hospital Kerry	1.2	1.52
University Hospital Limerick	2	2.24
University Hospital Waterford	0.2	1.36
Wexford General Hospital	0.8	1.04
Total	25.0	32.48

FIGURE 6.8: TOTAL CURRENT DIETITIAN STAFFING COMPARED WITH THE DIETITIAN STAFFING RECOMMENDED BY THE *NATIONAL STROKE STRATEGY 2022-2027*, BY HOSPITAL

	Current WTE dietitians	Recommended WTE dietitian
Bantry General Hospital	0.5	0.37
Beaumont Hospital	1	2.516
Cavan General Hospital	0.5	0.444
Connolly Hospital	0.4	1.702
Cork University Hospital	1	3.108
Letterkenny University Hospital	0.1	0.74
Mater Misericordiae University Hospital	1	1.332
Mayo University Hospital	0.2	0.666
Mercy University Hospital	0.1	0.518
Naas General Hospital	0.5	1.036
Our Lady of Lourdes Hospital Drogheda	0.8	1.924
Portiuncula University Hospital	0	0.222
Regional Hospital Mullingar	0.2	0.74
Sligo University Hospital	0.2	0.74
St James`s Hospital	0.2	1.924
St. Luke`s General Hospital Kilkenny	0.1	0.444
St. Vincent`s University Hospital	0.5	1.628
Tallaght University Hospital	1	1.85
Tipperary University Hospital	0.2	1.036
University Hospital Galway	0.5	1.406
University Hospital Kerry	0.8	1.406
University Hospital Limerick	0.5	2.072
University Hospital Waterford	0.3	1.258
Wexford General Hospital	0	0.962
Total	10.6	30.044

FIGURE 6.9: TOTAL CURRENT PSYCHOLOGIST STAFFING COMPARED WITH THE PSYCHOLOGIST STAFFING RECOMMENDED BY THE *NATIONAL STROKE STRATEGY 2022-2027*, BY HOSPITAL

	Current WTE psychologists	Recommended WTE psychologists
Bantry General Hospital	0	0.25
Beaumont Hospital	0	1.7
Cavan General Hospital	0	0.3
Connolly Hospital	0	1.15
Cork University Hospital	1	2.1
Letterkenny University Hospital	0	0.5
Mater Misericordiae University Hospital	1	0.9
Mayo University Hospital	0	0.45
Mercy University Hospital	0	0.35
Naas General Hospital	1.5	0.7
Our Lady of Lourdes Hospital Drogheda	0	1.3
Portiuncula University Hospital	0	0.15
Regional Hospital Mullingar	0.1	0.5
Sligo University Hospital	0	0.5
St James's Hospital	0	1.3
St. Luke`s General Hospital Kilkenny	0	0.3
St. Vincent`s University Hospital	0	1.1
Tallaght University Hospital	1	1.25
Tipperary University Hospital	0	0.7
University Hospital Galway	0.1	0.95
University Hospital Kerry	0	0.95
University Hospital Limerick	0.5	1.4
University Hospital Waterford	0	0.85
Wexford General Hospital	0	0.65
Total	5.2	20.3

FIGURE 6.10: TOTAL CURRENT MEDICAL SOCIAL WORKER STAFFING COMPARED WITH THE MEDICAL SOCIAL WORKER STAFFING RECOMMENDED BY THE *NATIONAL STROKE STRATEGY 2022-2027*, BY HOSPITAL

	Current WTE MSW	Recommended WTE MSW
Bantry General Hospital	0	0.5
Beaumont Hospital	1	3.4
Cavan General Hospital	0	0.6
Connolly Hospital	0.5	2.3
Cork University Hospital	1	4.2
Letterkenny University Hospital	0.1	1
Mater Misericordiae University Hospital	0.9	1.8
Mayo University Hospital	0.2	0.9
Mercy University Hospital	0.2	0.7
Naas General Hospital	0.5	1.4
Our Lady of Lourdes Hospital Drogheda	0.5	2.6
Portiuncula University Hospital	0	0.3
Regional Hospital Mullingar	0.1	1
Sligo University Hospital	0.1	1
St James`s Hospital	0.1	2.6
St. Luke`s General Hospital Kilkenny	1	0.6
St. Vincent`s University Hospital	1	2.2

Tallaght University Hospital	1	2.5	
Tipperary University Hospital	0.1	1.4	
University Hospital Galway	1.3	1.9	
University Hospital Kerry	0	1.9	
University Hospital Limerick	0	2.8	
University Hospital Waterford	0.1	1.7	
Wexford General Hospital	0.1	1.3	
Total	9.8	40.6	

FIGURE 6.11: RESOURCES AVAILABLE FOR PATIENTS ON DISCHARGE FROM HOSPITAL

	Yes		Yes No		Total	
	N	%	N	%	N	%
Made use of the Irish Heart Foundation online support services	23	96%	1	4%	24	100%
Formal, written plan for follow up and continued rehabilitation on discharge	12	50%	12	50%	24	100%
Formal links with patients'/carers' organisations for communication	15	63%	9	38%	24	100%
Stroke support group	17	71%	7	29%	24	100%
Policy to give patients a named contact on transfer from hospital to community	7	29%	17	71%	24	100%

FIGURE 7.1: USUAL WAITING TIME FOR PATIENTS TO RECEIVE CAROTID IMAGING

	N	%
The next day	1	4%
The next weekday	7	29%
The same day (5 days a week)	6	25%
The same day (7 days a week)	4	17%
Within a week	6	25%
Total	24	100%

FIGURE 7.2: METHODS USED BOTH IN-HOURS AND OUT OF HOURS FOR IMAGING EXTRA-CRANIAL VESSELS

		Yes		Гotal
	N	%	N	%
Doppler Ultrasound in-hours	14	58%	24	100%
Doppler out-of-hours	0	0%	24	100%
CTA in-hours	15	63%	24	100%
CTA out-of-hours	22	92%	24	100%
MRA in-hours	3	13%	24	100%
MRA out-of-hours	1	4%	24	100%
No service in-hours	0	0%	24	100%
No service out-of-hours	1	4%	24	100%

FIGURE 7.3: STROKE PATIENT SELECTION FOR ECHOCARDIOGRAPHY

Ī			N	%
Ī	Majority of patients post stroke	Yes	21	88%

	Total	24	100%
Deticate consective of conditional alice course on busin incoming	Yes	9	38%
Patients suggestive of cardioembolic source on brain imaging	Total	24	100%
In nationts in Atrial Fibrillation	Yes	9	38%
In patients in Atrial Fibrillation	Total	24	100%
Young patients with suspicion of PFO	Yes	11	46%
	Total	24	100%
D. (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Yes	8	33%
Patients with any abnormal ECG	Total	24	100%
Debicate with a secreted valuates legions	Yes	10	42%
Patients with suspected valvular lesions	Total	24	100%
Dakingto with your book failure	Yes	9	38%
Patients with new heart failure	Total	24	100%
Dakington with his own hand failure	Yes	6	25%
Patients with known heart failure		24	100%

FIGURE 8.1: TOTAL CURRENT PHYSIOTHERAPIST STAFFING ON EARLY SUPPORTED DISCHARGE TEAMS COMPARED WITH RECOMMENDED PHYSIOTHERAPIST STAFFING ON EARLY SUPPORTED DISCHARGE TEAMS, AS PER THE NATIONAL STROKE STRATEGY 2022-2027, BY HOSPITAL

	Current WTE in post	Resourced, but not in post	Recommended WTE
Beaumont Hospital	1	1	1
Cavan General Hospital	2	2	1
Connolly Hospital	1	1	1
Cork ESD Team (CUH and MUH)	1	1	1
Mater Misericordiae University Hospital	1	1	1
Our Lady of Lourdes Hospital Drogheda	1	1	1
Sligo University Hospital	0	1	1
St James's Hospital	0.5	1	1
St. Vincent's University Hospital	1	1	1
Tallaght University Hospital	1	1	1
University Hospital Galway	1.1	1.1	1
University Hospital Kerry	0.5	0.5	1
University Hospital Limerick	1	1	1
Total	12.1	13.6	13

FIGURE 8.2: TOTAL OCCUPATIONAL THERAPIST STAFFING ON EARLY SUPPORTED DISCHARGE TEAM COMPARED WITH RECOMMENDED OCCUPATIONAL THERAPIST STAFFING ON EARLY SUPPORTED DISCHARGE TEAM, AS PER THE NATIONAL STROKE STRATEGY 2022-2027, BY HOSPITAL

	Current WTE in post	Resourced, but not in post	Recommended WTE
Beaumont Hospital	1	1	1
Cavan General Hospital	2	2	1
Connolly Hospital	1	1	1
Cork ESD Team (CUH and MUH)	1.5	1.5	1
Mater Misericordiae University Hospital	1.4	1.5	1
Our Lady of Lourdes Hospital Drogheda	1	1	1

Sligo University Hospital	1	1	1
St James`s Hospital	1	1	1
St. Vincent`s University Hospital	1	1	1
Tallaght University Hospital	1	1	1
University Hospital Galway	1.5	1.5	1
University Hospital Kerry	1	1	1
University Hospital Limerick	1	1	1
Total	15.4	15.5	13

FIGURE 8.3: TOTAL SPEECH AND LANGUAGE THERAPIST STAFFING ON EARLY SUPPORTED DISCHARGE TEAM COMPARED WITH RECOMMENDED SPEECH AND LANGUAGE THERAPIST STAFFING ON EARLY SUPPORTED DISCHARGE TEAM, AS PER THE NATIONAL STROKE STRATEGY 2022-2027, BY HOSPITAL

	Current WTE in post	Resourced, but not in post	Recommended WTE
Beaumont Hospital	1	1	1
Cavan General Hospital	0	0	1
Connolly Hospital	1	1	1
Cork ESD Team (CUH and MUH)	1	1	1
Mater Misericordiae University Hospital	1	1	1
Our Lady of Lourdes Hospital Drogheda	0	1	1
Sligo University Hospital	1	1	1
St James`s Hospital	1	1	1
St. Vincent's University Hospital	0	1	1
Tallaght University Hospital	1	1	1
University Hospital Galway	0	1	1
University Hospital Kerry	0.5	0.5	1
University Hospital Limerick	0	1	1
Total	7.5	11.5	13

FIGURE 8.4: TOTAL CLINICAL NURSE SPECIALIST STAFFING ON EARLY SUPPORTED DISCHARGE TEAM COMPARED WITH RECOMMENDED CLINICAL NURSE SPECIALIST STAFFING ON EARLY SUPPORTED DISCHARGE TEAM, AS PER THE NATIONAL STROKE STRATEGY 2022-2027, BY HOSPITAL

	Current WTE in	Resourced, but	Recommended
	post	not in post	WTE
Beaumont Hospital	1	1	0.5
Cavan General Hospital	0	0	0.5
Connolly Hospital	0	0	0.5
Cork ESD Team (CUH and MUH)	0	0	0.5
Mater Misericordiae University Hospital			0.5
Our Lady of Lourdes Hospital Drogheda	1	1	0.5
Sligo University Hospital	0.5	0.5	0.5
St James's Hospital	0	0	0.5
St. Vincent's University Hospital	1	1	0.5
Tallaght University Hospital	0	0	0.5
University Hospital Galway	0	0	0.5
University Hospital Kerry	1	1	0.5
University Hospital Limerick	0.5	0.5	0.5
Total	5.00	5.00	6.5

FIGURE 8.5: TOTAL MEDICAL SOCIAL WORKER STAFFING ON EARLY SUPPORTED DISCHARGE TEAM COMPARED WITH RECOMMENDED MEDICAL SOCIAL WORKER STAFFING ON EARLY SUPPORTED DISCHARGE TEAM, AS PER THE NATIONAL STROKE STRATEGY 2022-2027, BY HOSPITAL

	Current WTE in	Resourced, but	Recommended
	post	not in post	WTE
Beaumont Hospital	0.5	1	0.5
Cavan General Hospital	0	0	0.5
Connolly Hospital	0	0	0.5
Cork ESD Team (CUH and MUH)	0	0	0.5
Mater Misericordiae University Hospital	0.2	0.5	0.5
Our Lady of Lourdes Hospital Drogheda	1	1	0.5
Sligo University Hospital	0	0	0.5
St James's Hospital	0.1	0.5	0.5
St. Vincent`s University Hospital	0	0.5	0.5
Tallaght University Hospital	0	0	0.5
University Hospital Galway	0.2	0	0.5
University Hospital Kerry	0	0	0.5
University Hospital Limerick	0	0	0.5
Total	2	3.5	6.5

FIGURE 8.6: TOTAL THERAPY ASSISTANT STAFFING ON EARLY SUPPORTED DISCHARGE TEAM COMPARED WITH RECOMMENDED THERAPY ASSISTANT STAFFING ON EARLY SUPPORTED DISCHARGE TEAM, AS PER THE NATIONAL STROKE STRATEGY 2022-2027, BY HOSPITAL

	Current WTE in post	Resourced, but not in post	Recommended WTE
Beaumont Hospital	1	1	1
Cavan General Hospital	0.2	0.2	1
Connolly Hospital	0	0	1
Cork ESD Team (CUH and MUH)	0	0	1
Mater Misericordiae University Hospital	1	1	1
Our Lady of Lourdes Hospital Drogheda	1	1	1
Sligo University Hospital	1	1	1
St James's Hospital	0.5	0.5	1
St. Vincent`s University Hospital	0	0	1
Tallaght University Hospital	1	1	1
University Hospital Galway	1	1	1
University Hospital Kerry	1.5	1.5	1
University Hospital Limerick	0	0	1
Total	8.2	8.2	13



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