

## Central Lancashire Online Knowledge (CLOK)

Title	Organisational survey for acute stroke care in Vietnam
Type	Article
URL	<a href="https://clock.uclan.ac.uk/43963/">https://clock.uclan.ac.uk/43963/</a>
DOI	
Date	2022
Citation	Phan, Hoang, Nguyen, Thang, Watkins, Caroline Leigh, Lightbody, Catherine Elizabeth, Boaden, Elizabeth, Georgiou, Rachel, Middleton, Sandy, Dale, Simeon, Kilkenny, Monique et al (2022) Organisational survey for acute stroke care in Vietnam. Journal of Stroke and Cerebrovascular Diseases, 31 (11). p. 106792.
Creators	Phan, Hoang, Nguyen, Thang, Watkins, Caroline Leigh, Lightbody, Catherine Elizabeth, Boaden, Elizabeth, Georgiou, Rachel, Middleton, Sandy, Dale, Simeon, Kilkenny, Monique, Pandian, Jeyaraj, Grimley, Rohan, Nguyen, Trung and Cadhilac, Dominique

It is advisable to refer to the publisher's version if you intend to cite from the work.

For information about Research at UCLan please go to <http://www.uclan.ac.uk/research/>

All outputs in CLOK are protected by Intellectual Property Rights law, including Copyright law. Copyright, IPR and Moral Rights for the works on this site are retained by the individual authors and/or other copyright owners. Terms and conditions for use of this material are defined in the <http://clock.uclan.ac.uk/policies/>

## **Organisational survey for acute stroke care in Vietnam: Regional Collaboration Programme**

Hoang T Phan<sup>\*1,2</sup>, Thang H Nguyen<sup>\*1</sup>, Caroline Watkins<sup>3</sup>, Elizabeth Lightbody<sup>3</sup>, Elizabeth Boaden<sup>3</sup>, Rachel Georgiou<sup>3</sup>, Sandy Middleton<sup>4,5</sup>, Simeon Dale<sup>4,5</sup>, Monique F Kilkenny<sup>2</sup>, Jeyaraj Pandian<sup>6</sup>, Rohan S Grimley<sup>7</sup>, Trung Q Nguyen<sup>1</sup>, Dominique A Cadilhac<sup>2</sup>

\*equal contribution

<sup>1</sup> Cerebrovascular Disease Department, 115 People's Hospital, Vietnam

<sup>2</sup> Stroke and Ageing Research, Department of Medicine, School of Clinical Sciences at Monash Health, Monash University, Clayton, Victoria, Australia

<sup>3</sup> Faculty of Health and Care, University of Central Lancashire, Preston, United Kingdom

<sup>4</sup> St Vincent's Health Australia Sydney, St Vincent's Hospital, Melbourne

<sup>5</sup> Australian Catholic University, New South Wales, Australia

<sup>6</sup> Department of Neurology, Christian Medical College, Ludhiana, India

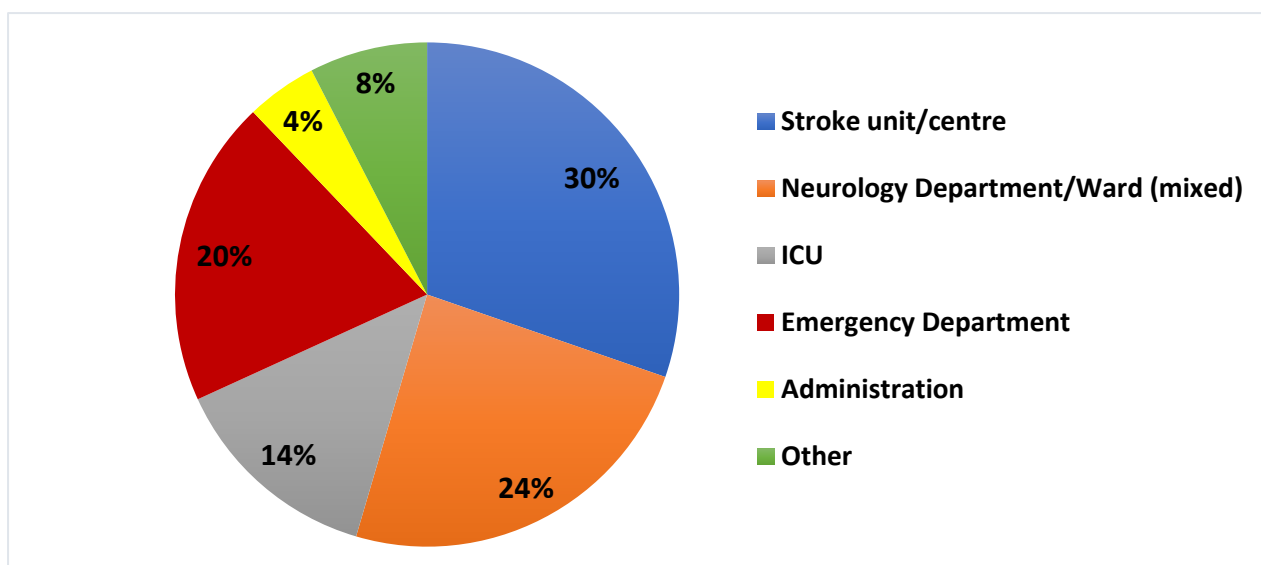
<sup>7</sup> School of Medicine, Griffith University, Queensland, Australia

### **Corresponding author:**

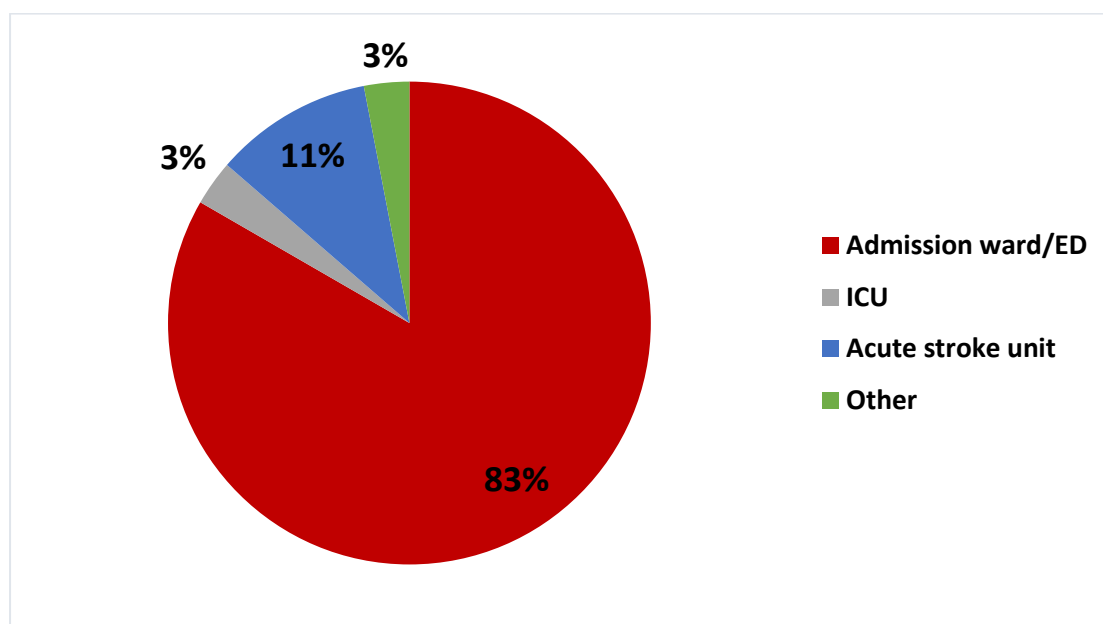
Professor Dominique Cadilhac

Head: Translational Public Health and Evaluation Division  
Stroke and Ageing Research, Department of Medicine,  
School of Clinical Sciences at Monash Health  
Monash University  
Level 3 Hudson Institute Building  
27-31 Wright Street, Clayton VIC 3168, Australia  
T: +61 3 8572 2657

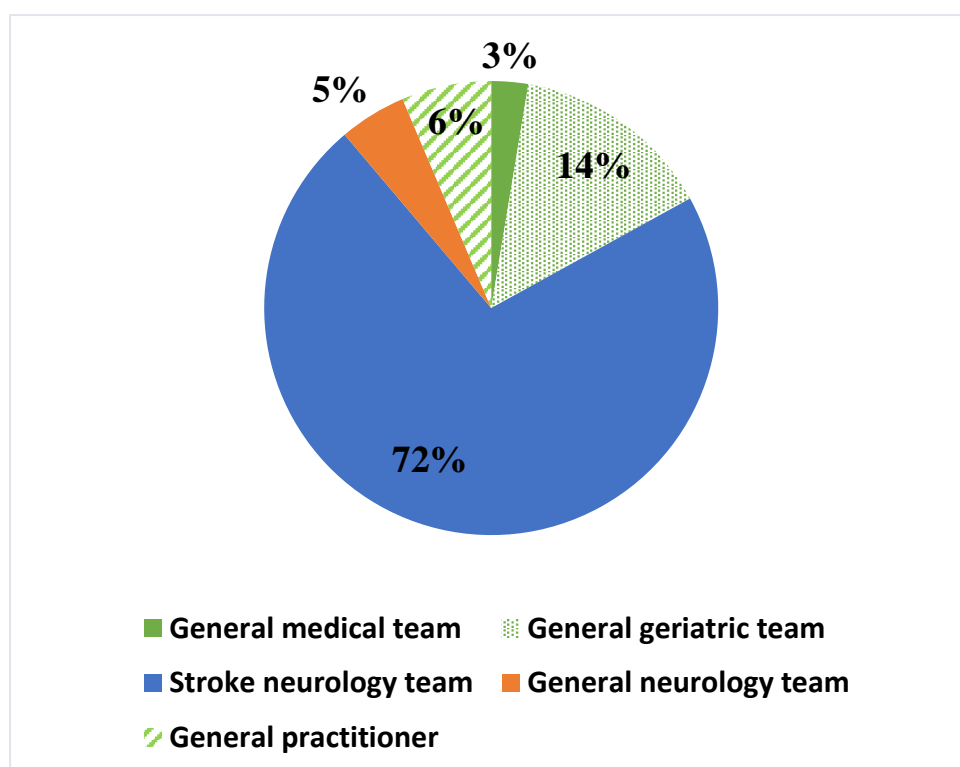
Email: [dominique.cadilhac@monash.edu](mailto:dominique.cadilhac@monash.edu)



**Supplemental Figure 1.** Survey respondents' place of working (N=66)



**Supplemental Figure 2.** First admission ward for a patient with acute stroke (N=66)



**Supplemental Figure 3.** What team usually manages acute stroke patients (N=64 responses)

**Supplemental Table 1: Team coordination and assessment**

	N (%)
<b>Team coordination</b>	
Do you provide a medical consultation to the patients treated in other wards of your hospital?	61 (92.4)
Does your stroke unit team routinely provide clinical care or advice for patients not in the stroke unit (i.e. as an 'in-reach' or 'mobile' service)?	56 (84.9)
Does the hospital have a clinical care pathway or protocol for managing stroke	61 (92.4)
If YES, are these based on national, or international evidence based clinical practice guidelines for Stroke e/g American Heart and Stroke Association Stroke Guidelines? (n=61)	55 (90.2)
<b>Availability of locally agreed assessment protocols</b>	
Consciousness level	63 (95.5)
Motor Impairment	65 (98.5)
Visual Impairment	58 (98.9)
Sensory Impairment	59 (89.4)
Executive Function	63 (95.5)
Activities of Daily Living	55 (83.3)
Mood	48 (72.7)
Communication	52 (78.8)
Fever	60 (90.9)
Sugar	64 (97.0)
Swallow	61 (92.4)
Incontinence of urine	54 (81.8)
Incontinence of faeces	52 (78.8)
Nutrition	54 (81.8)
Hydration	54 (81.8)

**Supplemental Table 2:** Access to further services (N=66)

	N (%)
Is there a standardised process regarding assessing suitability for further rehabilitation at your hospital?	33 (50.0)
Does your site have access to the following rehabilitation services	
Ongoing inpatient rehabilitation	61 (92.4)
Outpatient rehabilitation	51 (77.3)
Day hospital	46 (69.7)
Community-based rehabilitation provided in the home	31 (47.0)
Other (email, telephone)	5 (7.6)
Are there local protocols for routinely reviewing stroke patients discharged from hospital?	48 (72.7)
Access to the following specialist services	
Palliative care services	37 (56.1)
Cardiology	58 (87.9)
Vascular surgery	35 (53.0)
Neurosurgery	46 (69.7)
Endocrinology	52 (78.8)

**Supplemental Table 3:** Communication with patient and carer among 66 surveyed hospitals

	N (%)
Does the team routinely inform and involve the patient and their family/carer in:	
Clinical management	56 (84.9)
Goal setting	47 (71.2)
Planning for discharge	61 (92.4)
Training for rehabilitation to continue at home	49 (74.2)
If YES to the previous question (n=61),	
Stroke care, implications, and recovery	58 (95.1)
Secondary prevention	60 (98.4)
Local community care arrangements	34 (55.7)
Community stroke support groups	15 (24.6)
Is aphasia friendly communication available for all of the above	16 (26.2)
How do you involve patients and family/carer in care for patients with stroke?	
Provide training for rehabilitation and stroke care to continue at home	54 (81.8)
Does your hospital routinely provide patient information prior to discharge?	61 (92.4)



**Supplemental Table 4:** Continuing education and data collection on stroke care (N=66)

	N (%)
Is there a program for the continuing education of staff relating to the management of stroke?	43 (65.2)
Do you collect data on care provided to patients at your hospital/department?	
Yes	50 (95.8)
No	8 (12.1)
Unknown	6 (9.1)
Missing	2 (3.0)
If YES to the previous question (n=50 responses), which database you have used	
RES-Q	26 (54.2)
Local	15 (31.3)
Other (individual research, etc.)	7 (14.6)

**Appendix A**

# RAVIE Workshop 1 Vietnam 2020

## Hospital Organisational Survey

### A. Participant details

1. Full name of participant: \_\_\_\_\_

2. Participant discipline:

- ☐ **Doctor** (e.g. Neurologist, General Physician, Rehabilitation Physician, Specialist in cardiology, endocrinology or other, Junior doctor/trainee)
- ☐ **Nurse** (e.g. Senior nurse in charge of ward or hospital, General ward nurse, Nurse with training in stroke)
- ☐ **Manager** (not in direct patient care role, i.e. hospital executive)
- ☐ **Allied health professionals** (e.g. Physiotherapist - Rehabilitation [assistant or technician], Clinical psychology, Neuropsychology, Dietitian, Occupational therapist, Speech pathologist, Pharmacist, Social worker)
- ☐ **Other** (e.g. Physician assistant, X-ray technician, Ultrasound technician, Other staff)

3. Where are you working in your hospital?

- ☐ Stroke unit/centre                      ☐ Neurology Department/ward (mixed cases)
- ☐ ICU    ☐ General medical ward
- ☐ General surgical ward                      ☐ Emergency department
- ☐ Administration (not dedicated to one location)
- ☐ Other - please specify: \_\_\_\_\_

4. How many staff in your department/ward/stroke unit as specified in Q2?

- a. Doctor (e.g. Neurologist, General Physician, Rehabilitation Physician, Specialist in cardiology, endocrinology or other, Junior doctor/trainee) 

--	--	--
- b. Nursing 

--	--	--
- c. Allied Health (e.g. Physiotherapist - Rehabilitation assistant or technician, Clinical psychology, Neuropsychology, Dietitian, Occupational therapist, Speech pathologist, Pharmacist, Social worker) 

--	--	--
- d. Other (e.g. X-ray or Ultrasound technician, Manager) 

--	--	--

Nurse    Patient

5. What is nurse patient ratio in your department/ward?

(e.g. day: 1 nurse/2-3 patients)

Day			
Night			
If patient has tPA			

## B. Hospital and ward/department details

6. Hospital Name \_\_\_\_\_ City/Provinces \_\_\_\_\_

7. How many beds are there in your hospital?

--	--	--	--	--	--

8. How many patients with acute stroke are present in your hospital today?

Unknown ☐

--	--	--

9. Approximately how many patients with acute stroke were admitted to your hospital in the last year? Unknown ☐

--	--	--	--	--

10. How many beds are there in your ward/department where you admit most of your stroke patients?

--	--	--	--	--

11. Does your hospital have a specialist stroke unit(s) if applicable? ☐ Yes ☐ No

12. How many beds are in the stroke unit?

--	--	--

13. How many patients with acute stroke are in your ward/department today?

Unknown ☐

--	--	--

14. Approximately how many patients with acute stroke were admitted to your ward/department in the last year? Unknown ☐

--	--	--

15. How many patients with acute stroke are present in the stroke unit today? Unknown ☐

--	--	--

16. How many patients with acute stroke were admitted to the stroke unit in the last year? Unknown ☐

--	--	--

17. Does your hospital have:

- a. High Dependency (HDU) / Intensive Care Unit (ICU)?

☐ Yes ☐ No

- b. A consultant physician with specialist knowledge of stroke who is formally recognised as having a principal responsibility for stroke at your hospital.

☐ Yes ☐ No

- c. A dedicated, multidisciplinary team with members who have a special interest in stroke?

☐ Yes ☐ No

- d. Any nurses who have specialist training for stroke?

☐ Yes ☐ No

18. Do you have access to specialist support for clinical decision making? ☐ Yes ☐ No

**If yes:** ☐ Video conference/ Telehealth  
☐ Phone  
☐ Software e.g. Whatapps, Viber, Zalo, etc

19. Does your hospital have regional responsibility for specialist stroke care and support to smaller sites (e.g. hub centre for stroke care)? ☐ Yes ☐ No

20. **If yes to Q19**, which locations/regions? \_\_\_\_\_

### **C. Presentation to hospital**

21. Are there arrangements with the local ambulance service for emergency/rapid transfer to your hospital for stroke patients with acute stroke over and above the regular system?

☐ Yes ☐ No  
☐ No but, there is agreement to bypass our hospital for another stroke specific service  
☐ Unsure

22. Do you receive pre-notification from ambulance services and prepare to rapidly accept the suspected stroke patient? ☐ Yes ☐ No

23. Are there Emergency Department protocols for rapid triage for patients presenting with acute stroke? ☐ Yes ☐ No

24. **If YES to Q23, which of the following does this protocol include:**

a. Validated screening tool ☐ Yes ☐ No

b. High priority triage category (*such as important time-critical assessment and treatment e.g assessment for thrombolysis, resuscitation, or other emergency care*) ☐ Yes ☐ No

c. Rapid brain imaging (e.g. with the first 30 mins) ☐ Yes ☐ No

d. Code stroke activation (rapid referral and involvement of stroke team) ☐ Yes ☐ No

e. Assessment and management of IV thrombolysis ☐ Yes ☐ No

f. Assessment and management or transfer for endovascular clot retrieval  
☐ Yes ☐ No

25. Does your hospital manage all strokes, including complex strokes? ☐ Yes ☐ No

26. **Which ward is a patient with acute stroke most likely to be admitted to first?**  
(only one answer allowed)

- ☐ Medical assessment unit/admission ward (in the ED)
- ☐ ICU (or high dependency care - HDU)    ☐ General medical ward
- ☐ Geriatric ward    ☐ Geriatric rehabilitation ward
- ☐ Acute stroke unit
- ☐ Other stroke unit (e.g. rehabilitation stroke unit, comprehensive stroke unit)
- ☐ Other (please specify): \_\_\_\_\_

27. Do you offer intravenous thrombolysis (tPA) for appropriate patients with ischaemic stroke at your hospital?    ☐ Yes    ☐ No

28. **If NO to Q27**, what are the main reasons for being unable to offer this treatment?

\_\_\_\_\_

29. **If YES to Q27**, is this offered 24 hrs 7 days a week?    ☐ Yes    ☐ No

30. **If YES to Q27**, how many patients have you thrombolysed in your hospital during the past 12 months?    

--	--	--

31. Does your hospital provide onsite endovascular clot retrieval stroke therapy?    ☐ Yes    ☐ No

32. **If YES to Q31**, is it available 24/7?    ☐ Yes    ☐ No

33. **If YES to Q31**, how many patients have received endovascular stroke therapy in your hospital during the past 12 months?    

--	--	--

34. **If NO to Q31**, how many patients from your hospital have been referred for endovascular stroke therapy at another hospital during the past 12 months?    

--	--	--

#### **D. Imaging and Neurovascular Service**

35. Does your hospital have access to Rapid brain imaging (e.g. within 30 minutes) for all patients potentially eligible for acute therapy?    ☐ Yes    ☐ No

36. **If NO to Q35**, which of the following reasons apply:

- ☐ access to scanning only available during business hours
- ☐ scanning equipment and staff on call but often not available within 3 hours
- ☐ limited access to staff to report on scans (not 24/7)
- ☐ other, please specify: \_\_\_\_\_

37. Does your hospital have access to: **CT Scanning** within 3 hours of presentation to hospital for all stroke patients (available 24/7)? ☐ Yes ☐ No
38. **If NO to Q37**, which of the following reasons apply:
- ☐ access to scanning only available during business hours
- ☐ scanning equipment and staff on call but often not available within 3 hours
- ☐ limited access to staff to report on scans (not 24/7)
- ☐ other, please specify: \_\_\_\_\_
39. Do **you** have access to, and use, non-invasive angiography (e.g. CTA or MRA) at your hospital? ☐ Yes ☐ No
40. Do **you** have access to, and use, perfusion scanning (e.g. CTP) at your hospital? ☐ Yes ☐ No
41. **Does your hospital have access to:**
- a. Laboratory blood test (CBC, electrolytes, urea, glucose, INR, PT) ☐ Yes ☐ No
- b. Electrocardiogram (12 lead) Echocardiography ☐ Yes ☐ No
- c. Doppler ultrasound ☐ Yes ☐ No
- d. Holter monitors ☐ Yes ☐ No
- e. MRI scanning within 24 hours? ☐ Yes ☐ No
- f. Carotid imaging within 24 hours? ☐ Yes ☐ No
42. **Is there the ability to provide telemetry monitoring** (e.g. Prolonged ECG monitoring devices) for at least to 72 hours ☐ Yes ☐ No

#### **E. Organisation of workforce**

- 43.(i) Are the following health professionals actively involved with the management of stroke at your hospital?

- a. **Advanced medical trainee** (junior, etc.)

☐ Yes ☐ No ☐ Not available ☐ Unknown

(If yes, how many full-time equivalent (FTE) for hospital: \_\_\_\_\_%,  
just for stroke: \_\_\_\_\_% e.g. full time:100%; part-time: 50%)

#### **Medical physicians**

- b. **General physician** ☐ Yes ☐ No ☐ Not available ☐ Unknown

(If Yes, are they with stroke training?) ☐ Yes ☐ No

(How many FTE for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)

- c. **General practitioner** ☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If yes, how many (FTE) for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)
- d. **Geriatrician** ☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If yes, how many (FTE) for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)
- e. **Neurologist** ☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If yes, how many (FTE) for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)
- f. **Physiotherapist - Rehabilitation physician (medical doctors/specialists)**  
☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If yes, how many (FTE) for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)
- g. **Other specialty:** ☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If yes, please specify: \_\_\_\_\_ how many FTE for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)

#### **Nurse**

- h. **Stroke 'clinical' nurse (neuroscience trained)**  
☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If Yes, are they with stroke training? ☐ Yes ☐ No  
how many FTE for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)
- i. **Nursing unit manager** ☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If yes, how may FTE for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)

#### **Allied Health**

- j. **Physical therapy/rehabilitation therapist**  
(e.g. Kinesiology; technician or assistant)  
☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If yes, how may FTE for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)
- k. **Clinical psychology** ☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If yes, how may FTE for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)
- l. **Neuropsychology** ☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If yes, how may FTE for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)
- m. **Dietitian** ☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If yes, how may FTE for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)



n. **Occupational therapist** ☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If yes, how many FTE for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)

o. **Speech pathologist** ☐ Yes ☐ No ☐ Not available ☐ Unknown  
(If yes, how many FTE for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)

**Other**

p. **Other staff** (such as physician assistant, [X-ray or Ultrasound] technicians, etc.)  
☐ Yes ☐ No ☐ Not available ☐ Unknown

(If yes, please specify: \_\_\_\_\_)

how many FTE for hospital: \_\_\_\_\_%, just for stroke: \_\_\_\_\_%)

44. What team usually manages acute stroke patients? (only one answer allowed)

- |   |  |
|---|--|
| <input type="checkbox"/> General medical team                           | <input type="checkbox"/> Stroke geriatric team |
| <input type="checkbox"/> General geriatric team                         | <input type="checkbox"/> Stroke neurology team |
| <input type="checkbox"/> General neurology team                         |  |
| <input type="checkbox"/> General practitioner/Visiting medical officers |  |

45. Are there protocols for referral to allied health professional for assessment and treatment?

(e.g. Physiotherapist - Rehabilitation assistant or technician; Clinical psychology; Neuropsychology; Dietitian; Occupational therapist; Speech pathologist; Pharmacist; Social worker)

☐ Yes ☐ No

**F. Team coordination and assessment**

46. Do you provide a medical consultation to the patients treated in other wards of your hospital? ☐ Yes ☐ No

47. Does your stroke unit team routinely provide clinical care or advice for patients not on the stroke unit (i.e. as an 'in-reach' or 'mobile' service)? ☐ Yes ☐ No

48. Does the hospital have a clinical care pathway or protocol for managing stroke?  
☐ Yes ☐ No

49. **If YES to Q48**, are these based on national, or international evidence based clinical practice guidelines for Stroke e/g American Heart and Stroke Association Stroke Guidelines?

☐ Yes ☐ No

50. Are there locally agreed assessment protocols for the following?

- |    |                            |                              |                             |
|----|----------------------------|------------------------------|-----------------------------|
| a. | Consciousness level        | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| b. | Motor Impairment           | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| c. | Visual Impairment          | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| d. | Sensory Impairment         | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| e. | Executive Function         | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| f. | Activities of Daily Living | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| g. | Mood                       | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| h. | Communication              | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

51. Are there locally agreed management (including assessment/monitoring) protocols for the following?

- |    |                        |                              |                             |
|----|------------------------|------------------------------|-----------------------------|
| a. | Fever                  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| b. | Glucose                | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| c. | Swallow dysfunction    | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| d. | Incontinence of urine  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| e. | Incontinence of faeces | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| f. | Nutrition              | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| g. | Hydration              | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

#### **G. Access to further services**

52. Is there a standardised process regarding assessing suitability for further rehabilitation at your hospital? ☐ Yes ☐ No

53. Does your site have access to the following rehabilitation services

- |    |   |                              |                             |
|----|---|------------------------------|-----------------------------|
| a. | Ongoing inpatient rehabilitation                    | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| b. | Outpatient rehabilitation                           | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| c. | Day hospital  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| d. | Community-based rehabilitation provided in the home | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| e. | Other   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

If yes, please specify: \_\_\_\_\_

54. Are there local protocols for routinely reviewing stroke patients discharged from hospital? ☐ Yes ☐ No

55. **If YES to Q54**, how and when?

How: \_\_\_\_\_

When: \_\_\_\_\_

56. Does your hospital have access to the following specialist services:

a. Palliative care services ☐ Yes ☐ No

b. Cardiology ☐ Yes ☐ No

c. Vascular surgery ☐ Yes ☐ No

d. Neurosurgery ☐ Yes ☐ No

e. Endocrinology ☐ Yes ☐ No

#### **H. Communication with patient and carer**

57. How do you involve patients and family/carer in care for patients with stroke?

*(For example: Acute treatment decisions, Rehabilitation training for return to home e.g. meal preparation (safe swallowing and hydration), Safe transfers from bed to chair or walking, Exercises to improve motor, sensory function, communication, or Long-term stroke prevention treatment)*

---

---

---

---

58. How often do your patients come back to your hospital for ongoing management?

---

59. Does the team routinely inform and involve the patient and their family/carer in:

a. Clinical management ☐ Yes ☐ No

b. Goal setting ☐ Yes ☐ No

c. Planning for discharge ☐ Yes ☐ No

d. Training for rehabilitation to continue at home ☐ Yes ☐ No

60. Does your hospital routinely provide patient information prior to discharge?  
☐ Yes ☐ No
61. **If YES to Q60**, which of the following are included:
- |   |                              |                             |
|---|------------------------------|-----------------------------|
| a. Stroke care, implications and recovery                           | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| b. Secondary prevention   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| c. Local community care arrangements                                | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| d. Community stroke support groups                                  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| e. Is aphasia friendly communication available for all of the above | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
62. Are patients routinely given a discharge care (personal recovery) plan on discharge from hospital?  
☐ Yes ☐ No

### I. Continuing Education

63. Is there a program for the continuing education of staff relating to the management of stroke?  
☐ Yes ☐ No  
 If Yes, please describe: \_\_\_\_\_
64. Do you collect data on care provided to patients at your hospital/department?  
☐ Yes ☐ No ☐ Unknown
65. **If YES to Q64**, which database have you used?
- ☐ RES-Q
- ☐ Local database
- ☐ Other? Please specify: \_\_\_\_\_

If you have any questions or concerns regarding the survey, please contact our workshop manager Professor Dominique Cadilhac [dominique.cadilhac@monash.edu](mailto:dominique.cadilhac@monash.edu) (English) or workshop coordinator Doctor Hoang Phan [thi.phan@utas.edu.au](mailto:thi.phan@utas.edu.au) (Vietnamese and/or English)