

AROC Impairment Specific Report

Stroke Report

INPATIENT – PATHWAY 3

1 January 2024 – 31 December 2024

Anywhere Hospital



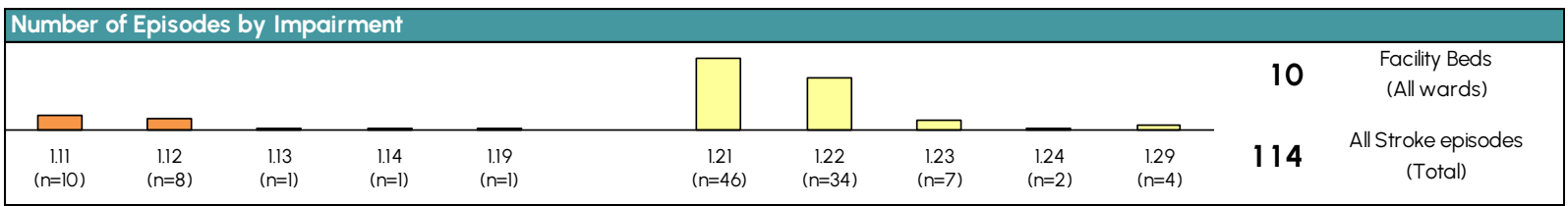
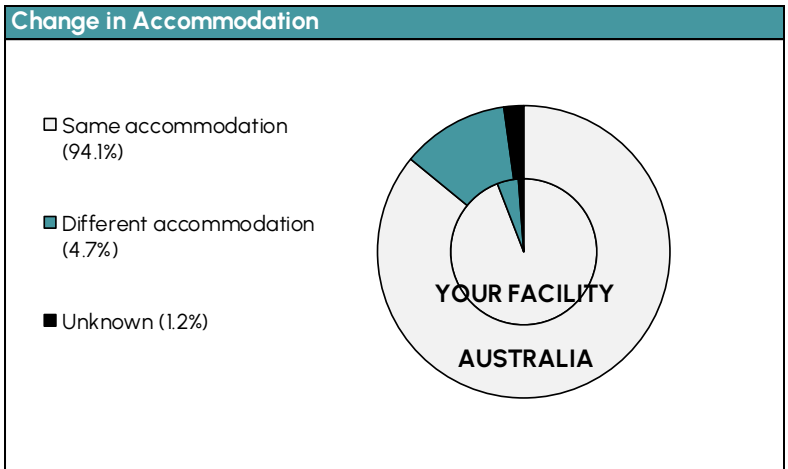
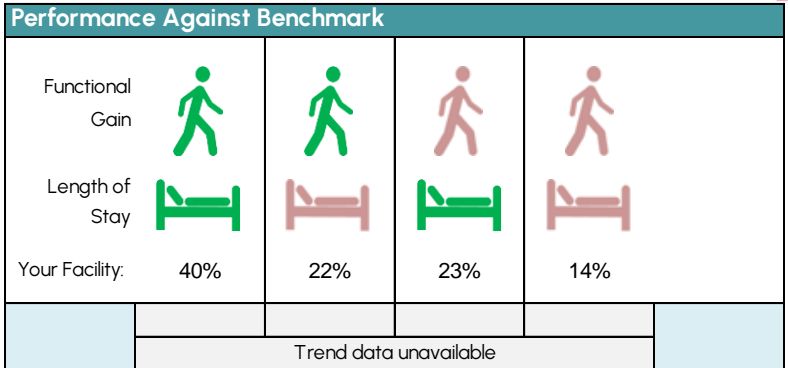
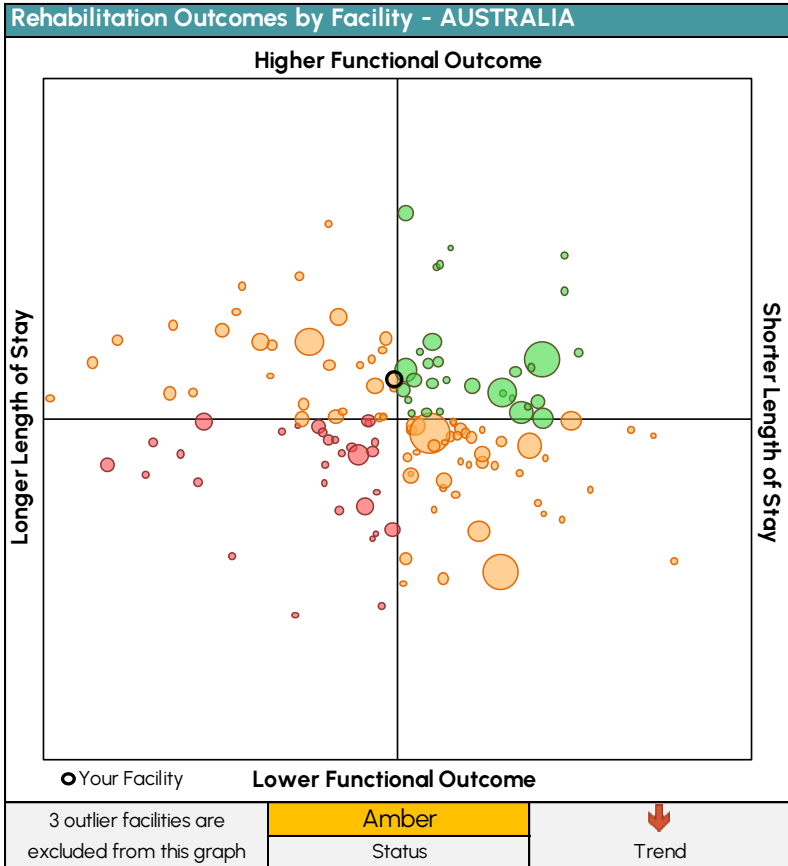
**Australasian
Faculty of
Rehabilitation
Medicine**



**UNIVERSITY
OF WOLLONGONG
AUSTRALIA**

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Stroke Dashboard



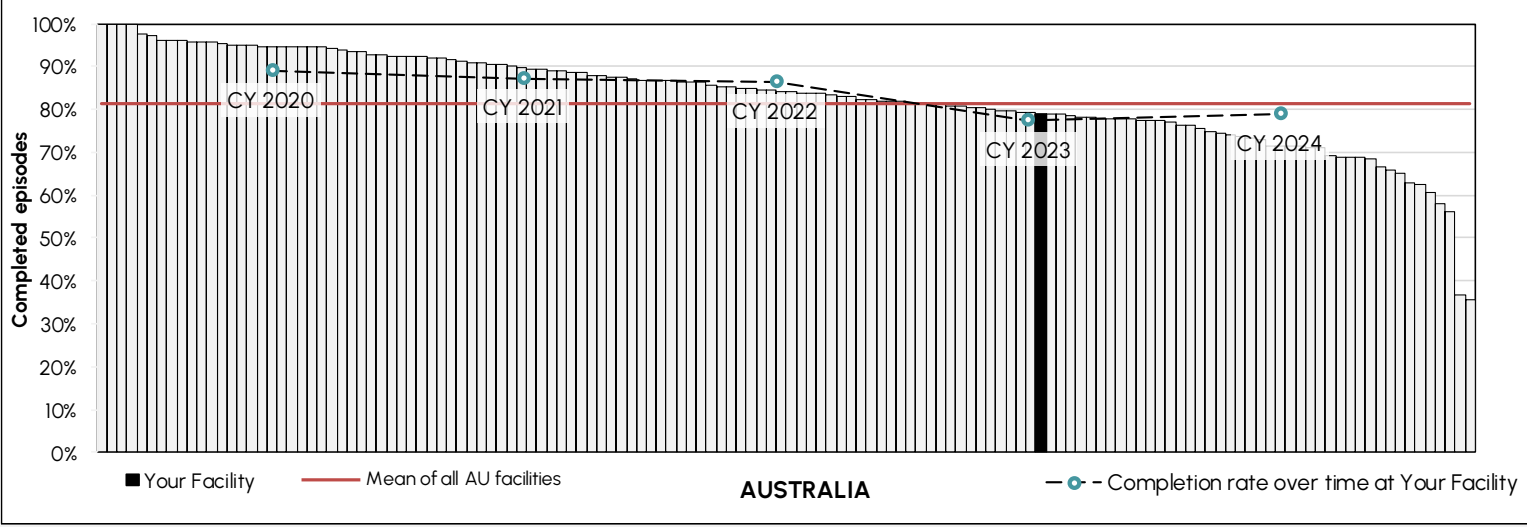
Key Indicators*	
YOUR FACILITY	AUSTRALIA
Mean Age: 72.4	Mean Age: 73.0
Mortality Rate: 0.0%	Mortality Rate: 0.5%
% with at least one comorbidity: 52%	% with at least one comorbidity: 54%
% with at least one complication: 43%	% with at least one complication: 33%
% episodes with start delays: 16%	% episodes with start delays: 19%
Days between onset and rehab episode: 15.8	Days between onset and rehab episode: 13.9
Days between clinically rehab ready & start date: 0.7	Days between clinically rehab ready & start date: 1.1

* Mean value provided unless otherwise specified

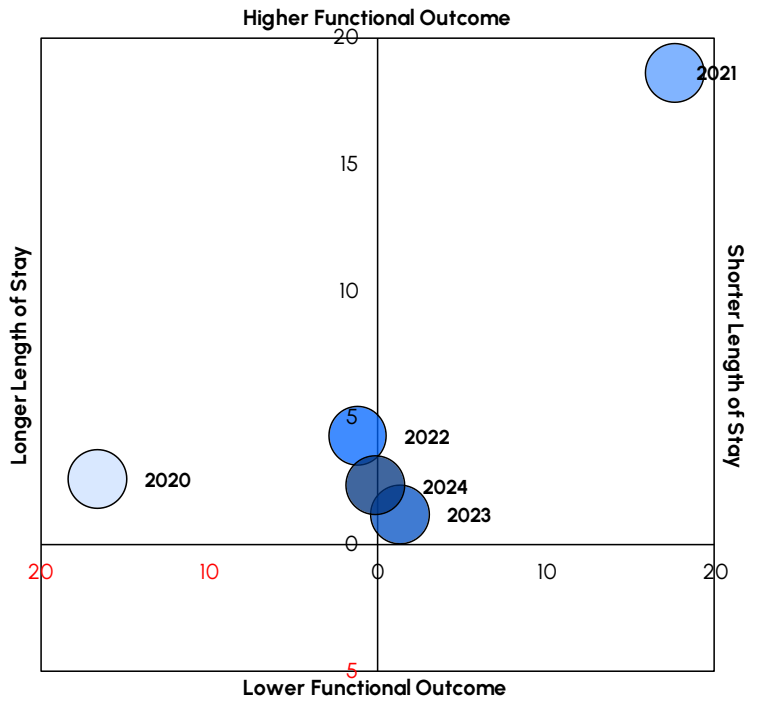
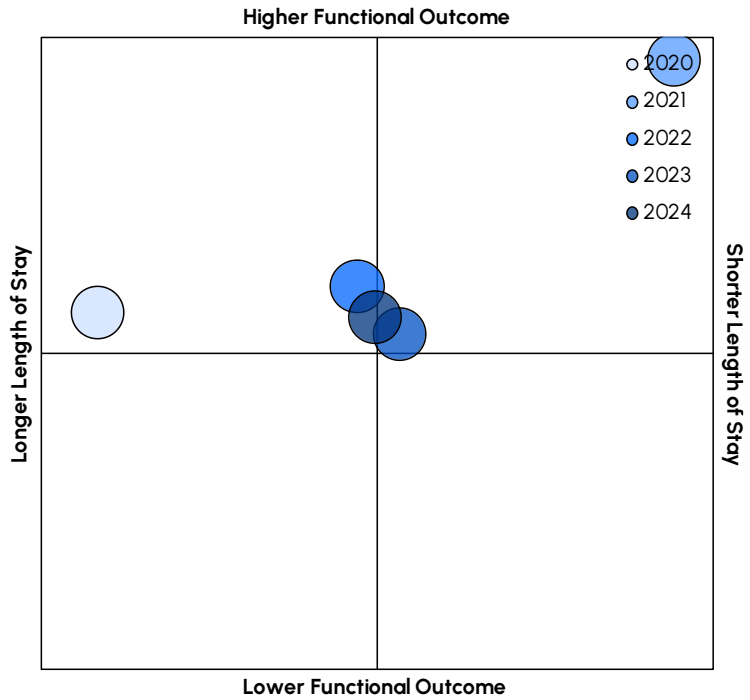
Facility FIM Training*	
FIM Credentialed Staff per 100 Episodes	FIM Credentialed Facility Trainers
<p>Your Facility</p>	<p>3</p> <p>Your Facility</p>
<p>AUSTRALIA (Mean)</p>	<p>2</p> <p>AROC Suggested Minimum</p>

*This includes all impairments from all wards

Completed Episodes by Facility



Quadrant Positions – last 5 years



NB: Data from before 2022 is benchmarked using AN-SNAP V4 classes. 2022 onwards benchmarked using AN-SNAP V5 classes.

NOTE: Includes only completed episodes with valid FIM & LOS; where n<20 no dot will be shown

Data used in this report

- Stroke episodes discharged during the reporting period (1 January 2024 – 31 December 2024) and time series data covering five years.
- Benchmark group is AUSTRALIA.
- Casemix analysis uses version 5 AN-SNAP classes (Appendix 3). Casemix adjustment is calculated against AUSTRALIA data.
- Unit of counting is by concatenated* episode, not by patient.
- Where there are less than five episodes within a subgroup, summary data are not provided. Missing data and ungroupable AN-SNAP classes are excluded from figures, but are included in tables.
- Facilities will only receive this report when the facility reports a minimum of 20 completed stroke episodes.

Note: Appendix 1 (Glossary) contains definitions of concepts referred to in this report. An understanding of these will help with interpretation of the data. This report should be considered in conjunction with the Outcome Benchmarks Report for your facility.

*Refer to Appendix 1 for more details about the process of data concatenation.

Stroke episodes were identified as those with the following AROC impairment codes:

- 1.11 — Haemorrhagic — Left body involvement
- 1.12 — Haemorrhagic — Right body involvement
- 1.13 — Haemorrhagic — Bilateral involvement
- 1.14 — Haemorrhagic — No paresis
- 1.19 — Haemorrhagic — Other stroke

- 1.21 — Ischaemic — Left body involvement (right brain)
- 1.22 — Ischaemic — Right body involvement (left brain)
- 1.23 — Ischaemic — Bilateral involvement
- 1.24 — Ischaemic — No paresis
- 1.29 — Ischaemic — Other stroke

Note: A list of all impairment codes can be found in Appendix 2

Levels of functioning for stroke are categorised by the following version 5 AN-SNAP classes:

- 5AA1 Stroke, weighted FIM Motor 63 - 91, FIM Cognition 30 - 35
- 5AA2 Stroke, weighted FIM Motor 63 - 91, FIM Cognition 21 - 29
- 5AA3 Stroke, weighted FIM Motor 63 - 91, FIM Cognition 5 - 20
- 5AA4 Stroke, weighted FIM Motor 44 - 62, FIM Cognition 18 - 35
- 5AA5 Stroke, weighted FIM Motor 44 - 62, FIM Cognition 5 - 17
- 5AA6 Stroke, weighted FIM Motor 19 - 43, Age ≥ 80
- 5AA7 Stroke, weighted FIM Motor 19 - 43, Age 67 - 79
- 5AA8 Stroke, weighted FIM Motor 19 - 43 Age 18 - 66
- 5AZ3 weighted FIM Motor score 13-18, All other impairments, Age ≥ 79
- 5AZ4 weighted FIM Motor score 13-18, All other impairments, Age 18 - 78

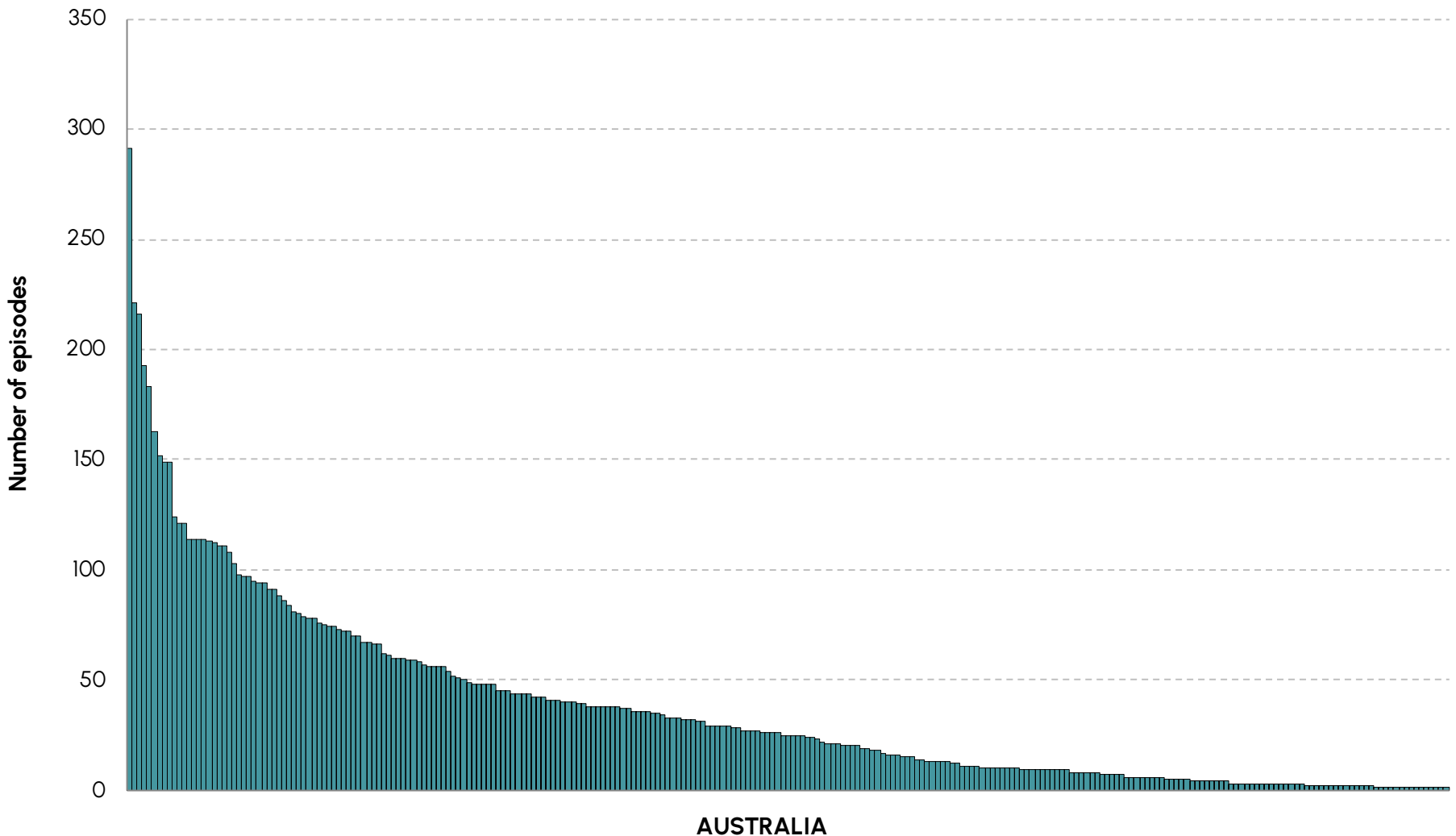
NOTE: A list of all AN SNAP classes can be found in Appendix 3



The BIG Picture

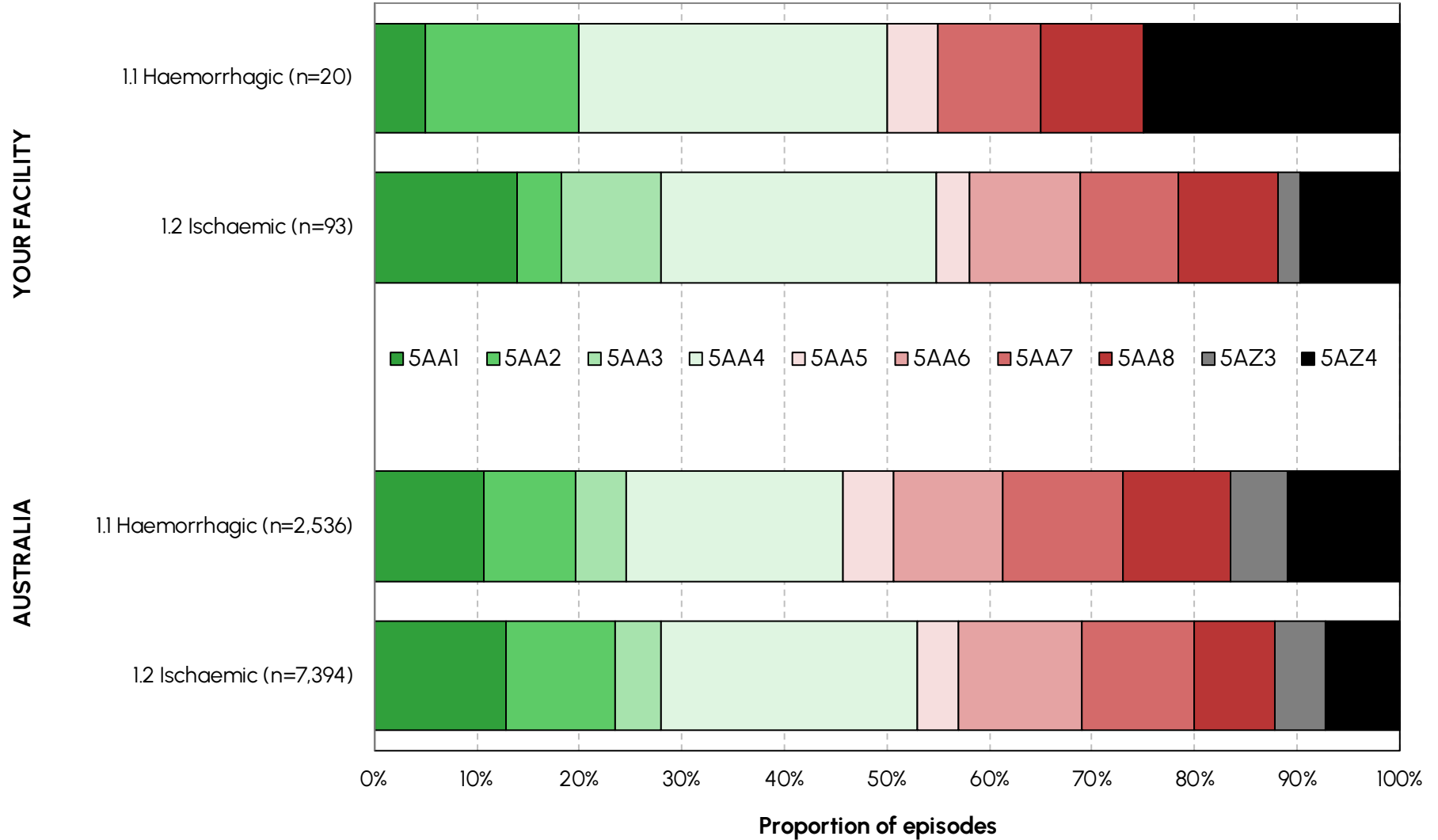


Volume of stroke episodes by facility



NOTE: 265 facilities reported at least one stroke episode, with 147 facilities reporting between 20 and 291 episodes in this reporting period

Proportion of episodes by impairment and AN-SNAP class



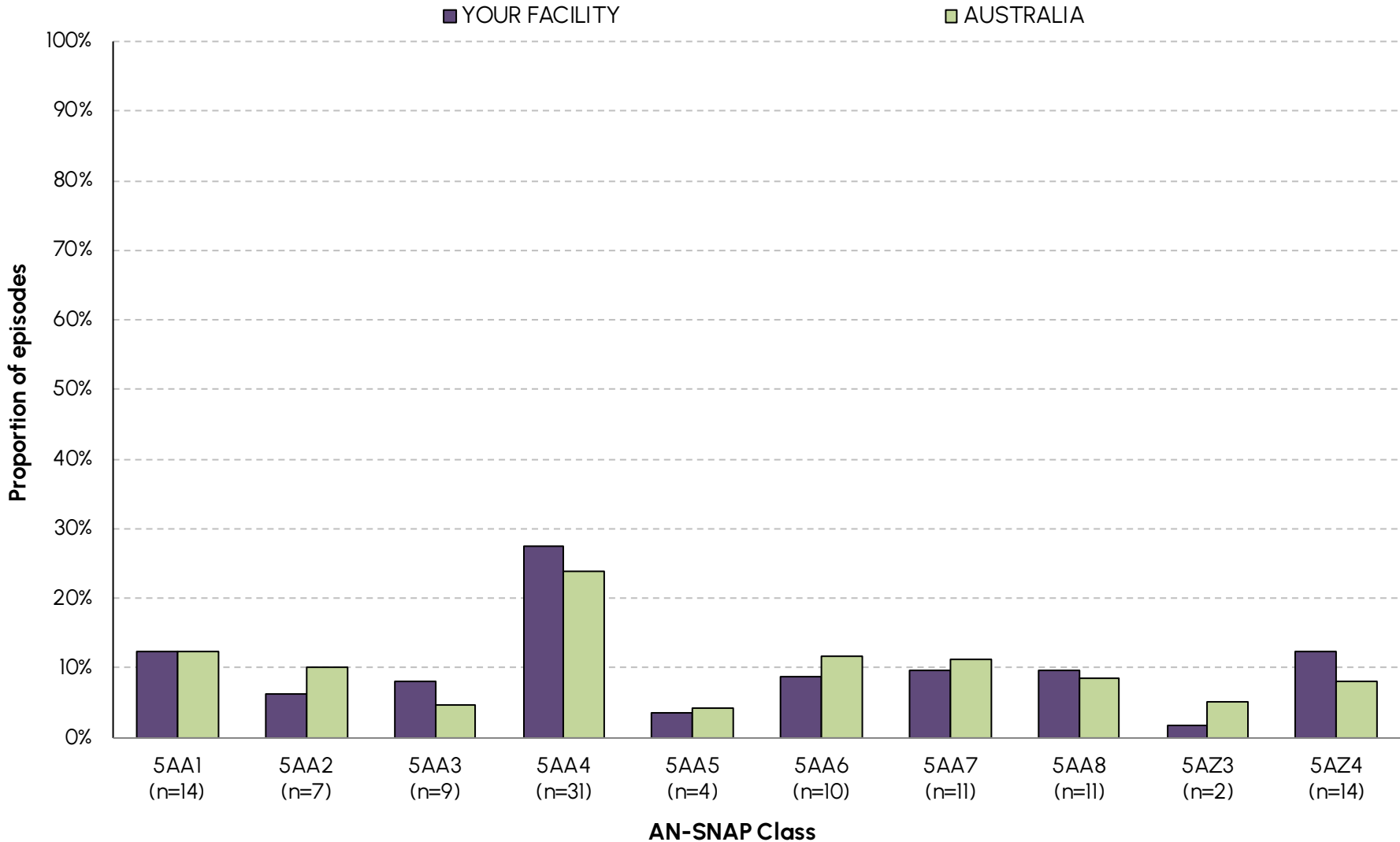
Episodes by impairment and AN-SNAP class

AN-SNAP class V5	YOUR FACILITY					
	1.1 Haemorrhagic		1.2 Ischaemic		All Stroke	
	No.	%	No.	%	No.	%
5AA1 (motor 63-91, cognition 30-35)	1	5.0	13	14.0	14	12.4
5AA2 (motor 63-91, cognition 21-29)	3	15.0	4	4.3	7	6.2
5AA3 (motor 63-91, cognition 5-20)	0	0.0	9	9.7	9	8.0
5AA4 (motor 44-62, cognition 18-35)	6	30.0	25	26.9	31	27.4
5AA5 (motor 44-62, cognition 5-17)	1	5.0	3	3.2	4	3.5
5AA6 (motor 19-43, Age ≥ 80)	0	0.0	10	10.8	10	8.8
5AA7 (motor 19-43, Age 67-79)	2	10.0	9	9.7	11	9.7
5AA8 (motor 19-43, Age ≤ 66)	2	10.0	9	9.7	11	9.7
5AZ3 (motor 13-18, Age ≥ 79)	0	0.0	2	2.2	2	1.8
5AZ4 (motor 13-18, Age ≤ 78)	5	25.0	9	9.7	14	12.4
All Stroke AN-SNAP Classes**	20	100.0	93	100.0	113	100.0

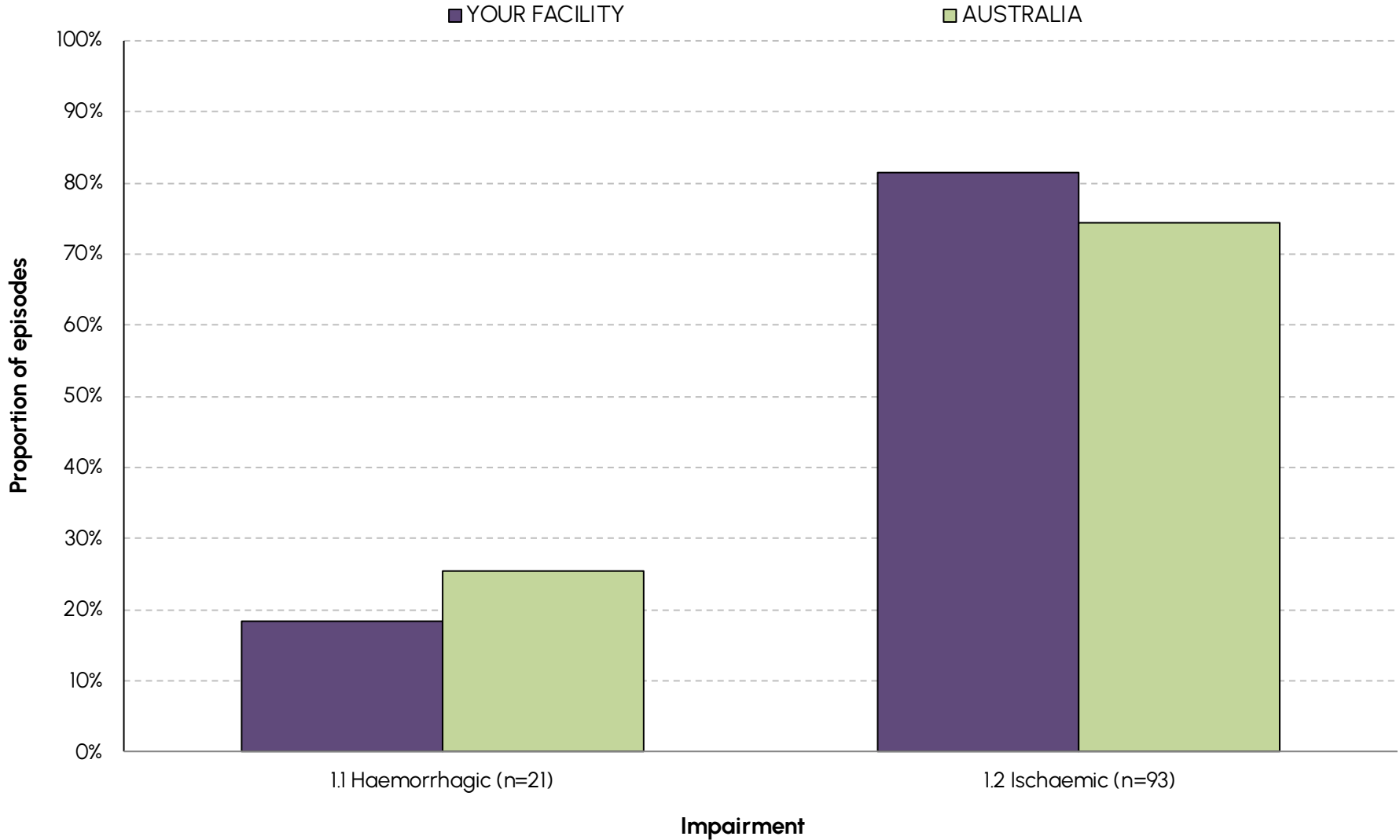
AN-SNAP class V5	AUSTRALIA					
	1.1 Haemorrhagic		1.2 Ischaemic		All Stroke	
	No.	%	No.	%	No.	%
5AA1 (motor 63-91, cognition 30-35)	272	10.7	946	12.8	1,218	12.3
5AA2 (motor 63-91, cognition 21-29)	225	8.9	787	10.6	1,012	10.2
5AA3 (motor 63-91, cognition 5-20)	125	4.9	337	4.6	462	4.7
5AA4 (motor 44-62, cognition 18-35)	537	21.2	1,844	24.9	2,381	24.0
5AA5 (motor 44-62, cognition 5-17)	126	5.0	297	4.0	423	4.3
5AA6 (motor 19-43, Age ≥ 80)	269	10.6	891	12.1	1,160	11.7
5AA7 (motor 19-43, Age 67-79)	299	11.8	806	10.9	1,105	11.1
5AA8 (motor 19-43, Age ≤ 66)	266	10.5	584	7.9	850	8.6
5AZ3 (motor 13-18, Age ≥ 79)	139	5.5	370	5.0	509	5.1
5AZ4 (motor 13-18, Age ≤ 78)	278	11.0	532	7.2	810	8.2
All Stroke AN-SNAP Classes**	2,536	100.0	7,394	100.0	9,930	100.0

**There were 1 episodes in YOUR FACILITY and 16 episodes in AUSTRALIA with AN-SNAP class 599A

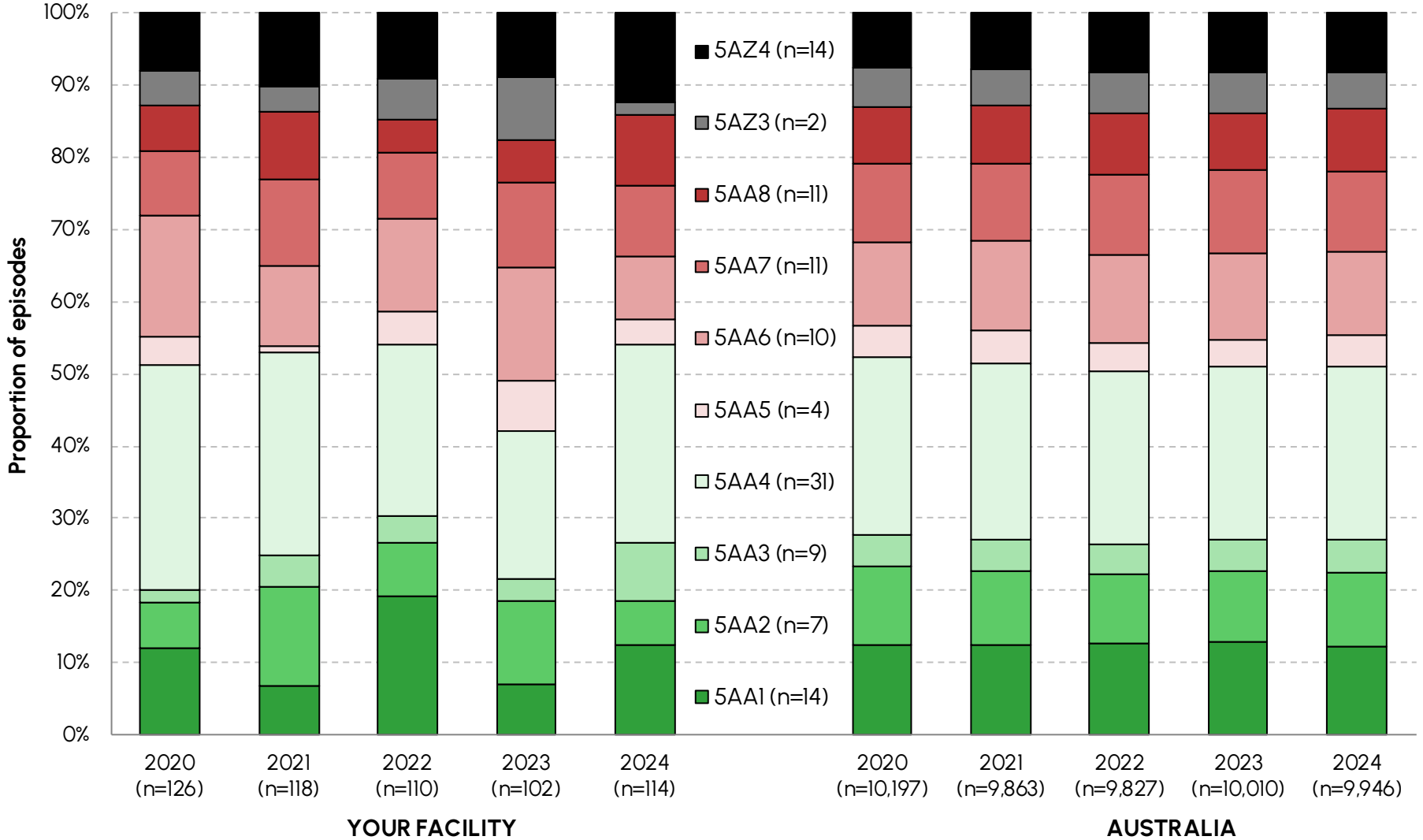
Proportion of episodes by AN-SNAP class



Proportion of episodes by impairment



Proportion of episodes by AN-SNAP class over time

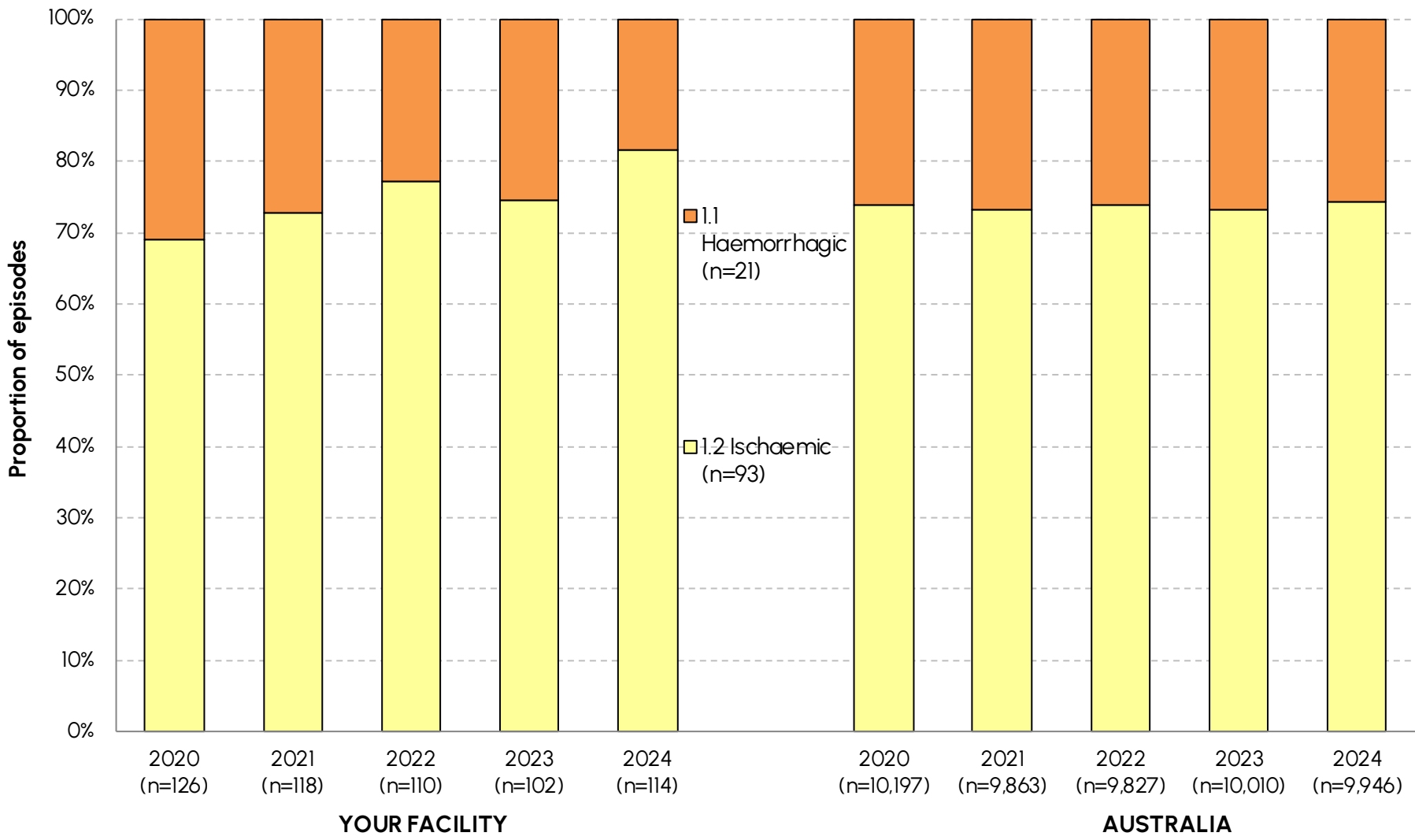


Episodes by AN-SNAP class over time

AN-SNAP class V5	YOUR FACILITY — No.					AUSTRALIA — No.				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
5AA1 (motor 63-91, cognition 30-35)	15	8	21	7	14	1,264	1,214	1,245	1,284	1,218
5AA2 (motor 63-91, cognition 21-29)	8	16	8	12	7	1,108	1,026	942	973	1,012
5AA3 (motor 63-91, cognition 5-20)	2	5	4	3	9	456	429	395	434	462
5AA4 (motor 44-62, cognition 18-35)	39	33	26	21	31	2,491	2,410	2,353	2,397	2,381
5AA5 (motor 44-62, cognition 5-17)	5	1	5	7	4	456	450	404	388	423
5AA6 (motor 19-43, Age ≥ 80)	21	13	14	16	10	1,186	1,208	1,189	1,196	1,160
5AA7 (motor 19-43, Age 67-79)	11	14	10	12	11	1,106	1,071	1,081	1,147	1,105
5AA8 (motor 19-43, Age ≤ 66)	8	11	5	6	11	790	776	839	792	850
5AZ3 (motor 13-18, Age ≥ 79)	6	4	6	9	2	553	501	566	563	509
5AZ4 (motor 13-18, Age ≤ 78)	10	12	10	9	14	776	767	801	820	810
Ungroupable	1	1	1	0	1	11	11	12	16	16
All Stroke AN-SNAP Classes	126	118	110	102	114	10,197	9,863	9,827	10,010	9,946

AN-SNAP class V5	YOUR FACILITY — %					AUSTRALIA — %				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
5AA1 (motor 63-91, cognition 30-35)	11.9	6.8	19.1	6.9	12.3	12.4	12.3	12.7	12.8	12.2
5AA2 (motor 63-91, cognition 21-29)	6.3	13.6	7.3	11.8	6.1	10.9	10.4	9.6	9.7	10.2
5AA3 (motor 63-91, cognition 5-20)	1.6	4.2	3.6	2.9	7.9	4.5	4.3	4.0	4.3	4.6
5AA4 (motor 44-62, cognition 18-35)	31.0	28.0	23.6	20.6	27.2	24.4	24.4	23.9	23.9	23.9
5AA5 (motor 44-62, cognition 5-17)	4.0	0.8	4.5	6.9	3.5	4.5	4.6	4.1	3.9	4.3
5AA6 (motor 19-43, Age ≥ 80)	16.7	11.0	12.7	15.7	8.8	11.6	12.2	12.1	11.9	11.7
5AA7 (motor 19-43, Age 67-79)	8.7	11.9	9.1	11.8	9.6	10.8	10.9	11.0	11.5	11.1
5AA8 (motor 19-43, Age ≤ 66)	6.3	9.3	4.5	5.9	9.6	7.7	7.9	8.5	7.9	8.5
5AZ3 (motor 13-18, Age ≥ 79)	4.8	3.4	5.5	8.8	1.8	5.4	5.1	5.8	5.6	5.1
5AZ4 (motor 13-18, Age ≤ 78)	7.9	10.2	9.1	8.8	12.3	7.6	7.8	8.2	8.2	8.1
Ungroupable	0.8	0.8	0.9	0.0	0.9	0.1	0.1	0.1	0.2	0.2
All Stroke AN-SNAP Classes	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Proportion of episodes by impairment over time



Episodes by impairment over time



Impairment	YOUR FACILITY — No.					AUSTRALIA — No.				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
1.1 Haemorrhagic	39	32	25	26	21	2,657	2,646	2,575	2,679	2,542
1.2 Ischaemic	87	86	85	76	93	7,540	7,217	7,252	7,331	7,404
All Stroke	126	118	110	102	114	10,197	9,863	9,827	10,010	9,946

Impairment	YOUR FACILITY — %					AUSTRALIA — %				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
1.1 Haemorrhagic	31.0	27.1	22.7	25.5	18.4	26.1	26.8	26.2	26.8	25.6
1.2 Ischaemic	69.0	72.9	77.3	74.5	81.6	73.9	73.2	73.8	73.2	74.4
All Stroke	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Summary of your incomplete episodes

Complete episode analysis	YOUR FACILITY		AUSTRALIA	
	No.	(%)	No.	(%)
Total reporting episodes	114		9,946	
Incomplete episodes	24	(21.1)	1,857	(18.7)

Reason for incomplete:

Discharged home with end FIM=18	0	(0.0)	16	(0.9)
Discharged home with no end FIM	0	(0.0)	14	(0.8)
Discharged to another hospital	12	(50.0)	783	(42.2)
Discharged back to acute same hospital	12	(50.0)	794	(42.8)
Discharged at own risk	0	(0.0)	80	(4.3)
Change of care type (LOS<1 week)	0	(0.0)	12	(0.6)
Died	0	(0.0)	48	(2.6)
Other/Unknown Discharge	0	(0.0)	110	(5.9)

Impairment Group:	YOUR FACILITY			
	Incomplete Episodes		Complete episodes	
1.1 Haemorrhagic	7	(29.2)	14	(15.6)
1.2 Ischaemic	17	(70.8)	76	(84.4)

AN-SNAP Class:

5AA1 (motor 63-91, cognition 30-35)	1	(7.1)	13	(15.3)
5AA2 (motor 63-91, cognition 21-29)	0	(0.0)	7	(8.2)
5AA3 (motor 63-91, cognition 5-20)	2	(14.3)	7	(8.2)
5AA4 (motor 44-62, cognition 18-35)	2	(14.3)	29	(34.1)
5AA5 (motor 44-62, cognition 5-17)	1	(7.1)	3	(3.5)
5AA6 (motor 19-43, Age ≥ 80)	1	(7.1)	9	(10.6)
5AA7 (motor 19-43, Age 67-79)	4	(28.6)	7	(8.2)
5AA8 (motor 19-43, Age ≤ 66)	2	(14.3)	9	(10.6)
5AZ3 (motor 13-18, Age ≥ 79)	1	(7.1)	1	(1.2)
5AZ4 (motor 13-18, Age ≤ 78)	9	(64.3)	5	(5.9)

Review of FIM item scoring by AN-SNAP class

Interpreting the comparative FIM item scoring charts



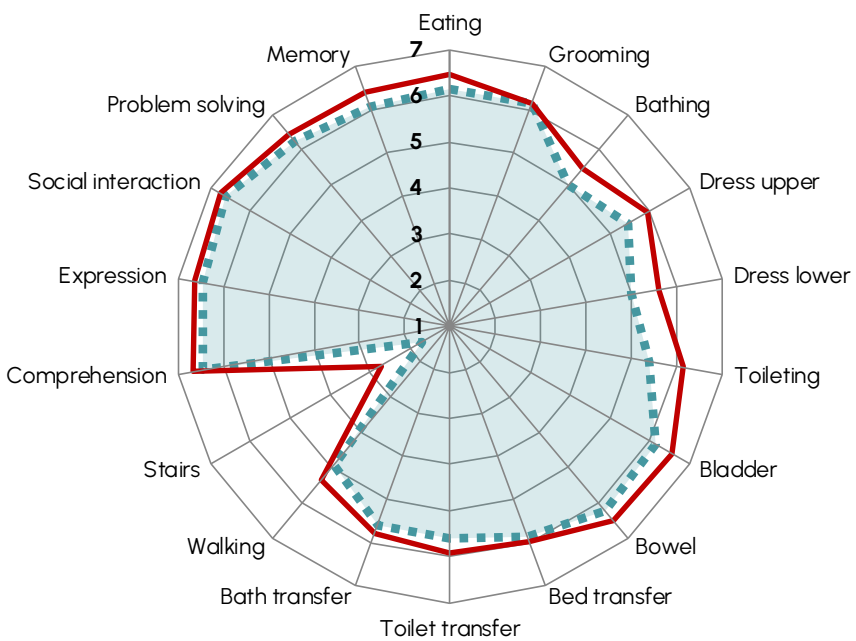
The FIM splat provides a graphic presentation of functional status in a radar chart. The 18 FIM items are arranged in order as 'spokes' of a wheel and the scoring levels from 1 (total dependence) to 7 (total independence) run from the centre outwards. The mean FIM item score for each item is indicated — a perfect score would be demonstrated as a large circle. The two FIM splats compare FIM scoring on admission (Figure A) and discharge (Figure B) between YOUR FACILITY and NATIONAL data — differences in the two shaded areas indicate differences in mean admission/discharge scoring. Graphs include completed episodes with valid FIM scoring.

Comparative FIM item scoring AN-SNAP class 5AA1



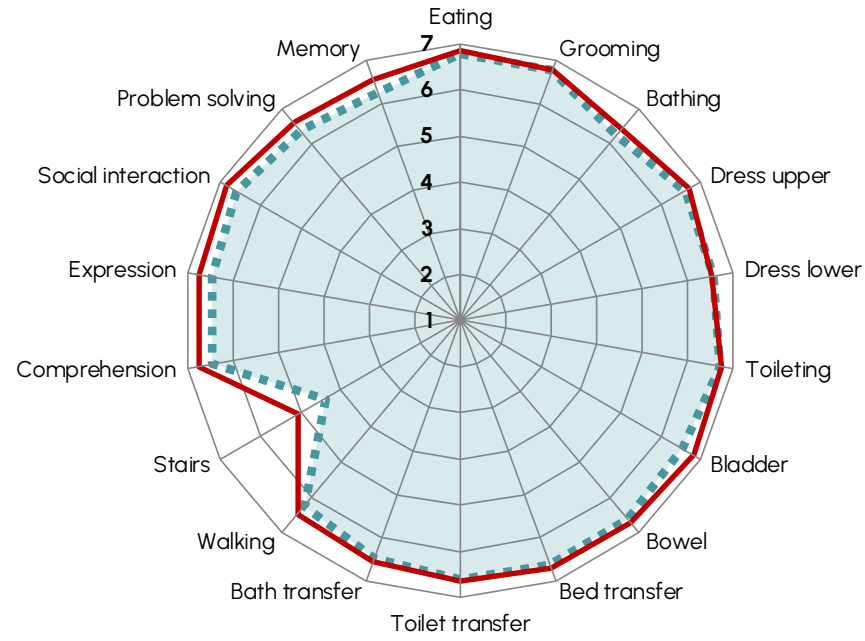
5AA1 Admission FIM scores

- YOUR FACILITY (n=13)
- AUSTRALIA (n=1,142)



5AA1 Discharge FIM scores

- YOUR FACILITY (n=13)
- AUSTRALIA (n=1,142)



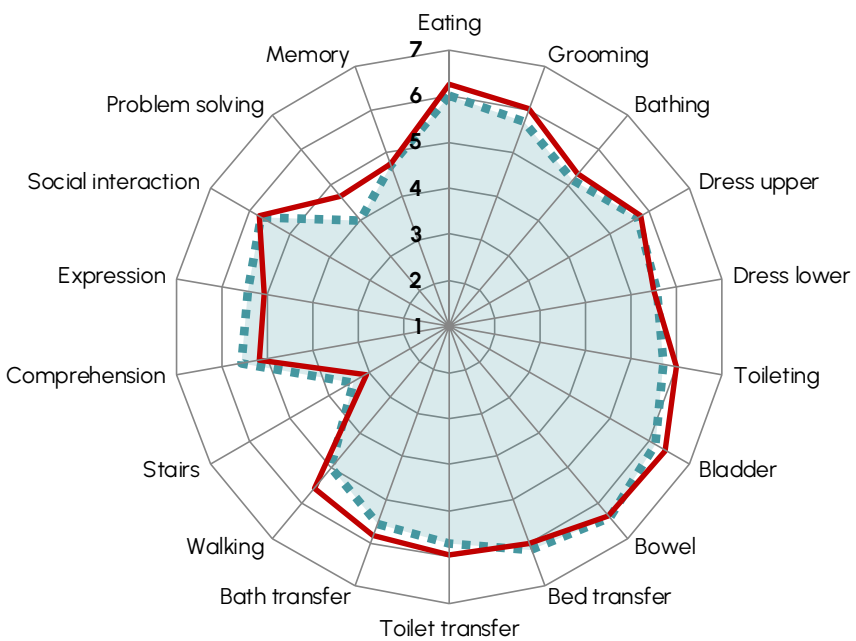
NOTE: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AA2



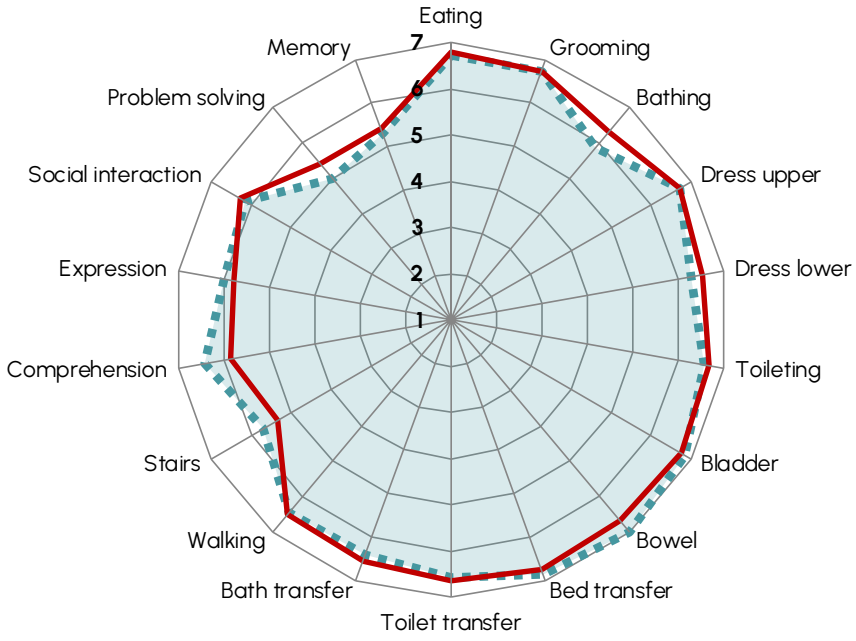
5AA2 Admission FIM scores

- YOUR FACILITY (n=7)
- AUSTRALIA (n=937)



5AA2 Discharge FIM scores

- YOUR FACILITY (n=7)
- AUSTRALIA (n=937)



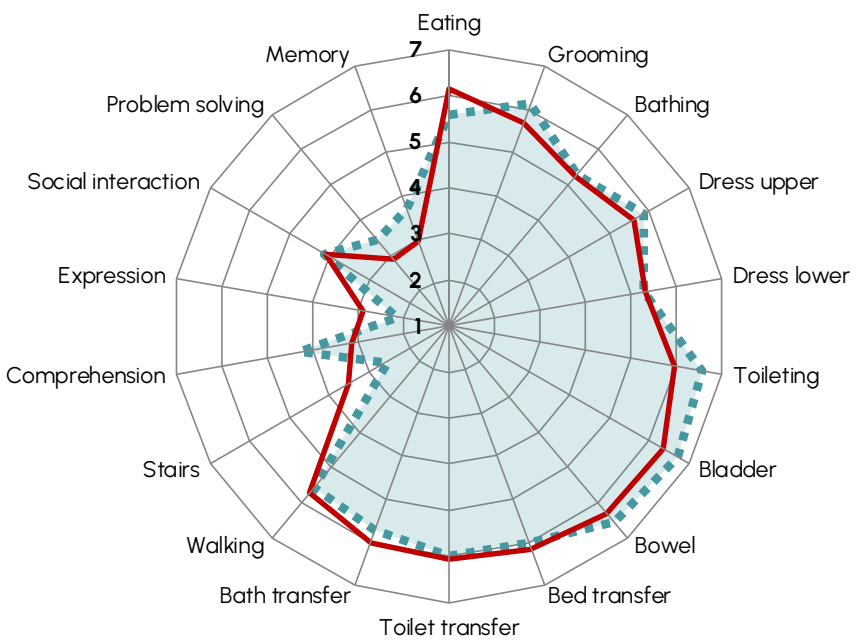
NOTE: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AA3



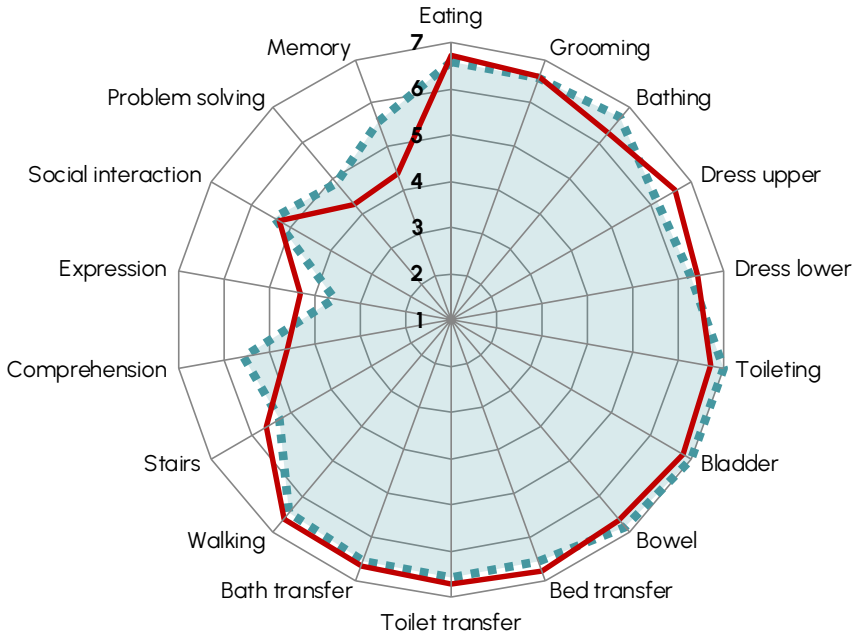
5AA3 Admission FIM scores

- YOUR FACILITY (n=7)
- AUSTRALIA (n=411)



5AA3 Discharge FIM scores

- YOUR FACILITY (n=7)
- AUSTRALIA (n=411)



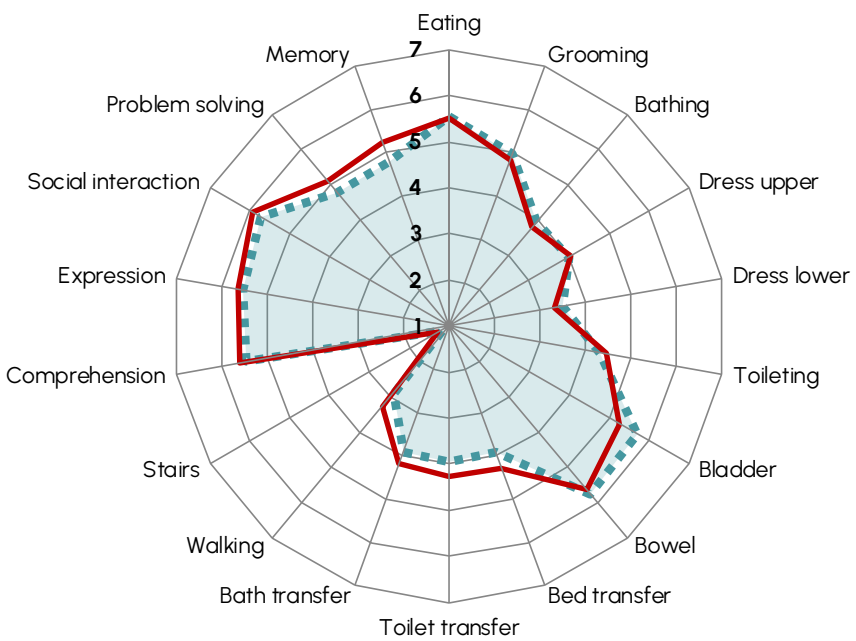
NOTE: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AA4



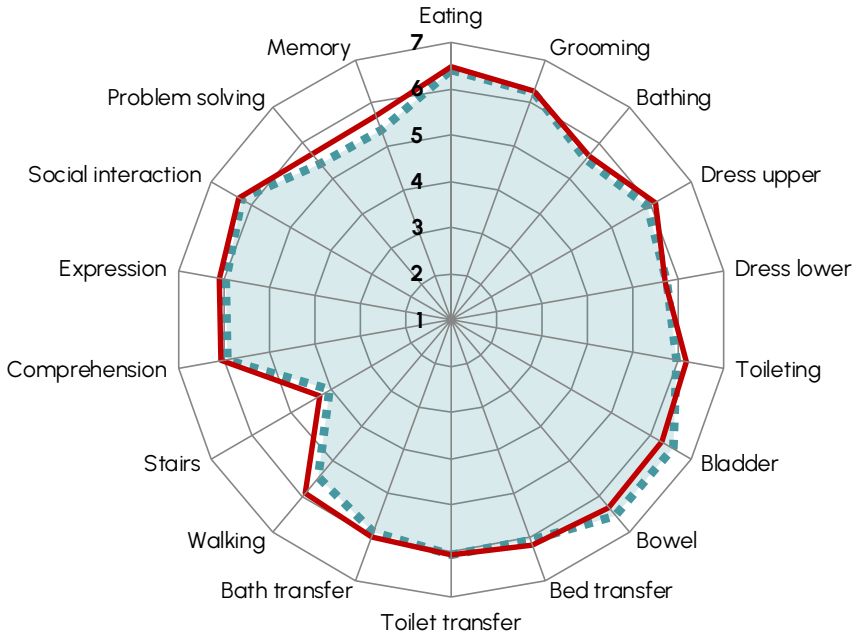
5AA4 Admission FIM scores

■ YOUR FACILITY (n=29)
■ AUSTRALIA (n=2,073)



5AA4 Discharge FIM scores

■ YOUR FACILITY (n=29)
■ AUSTRALIA (n=2,073)



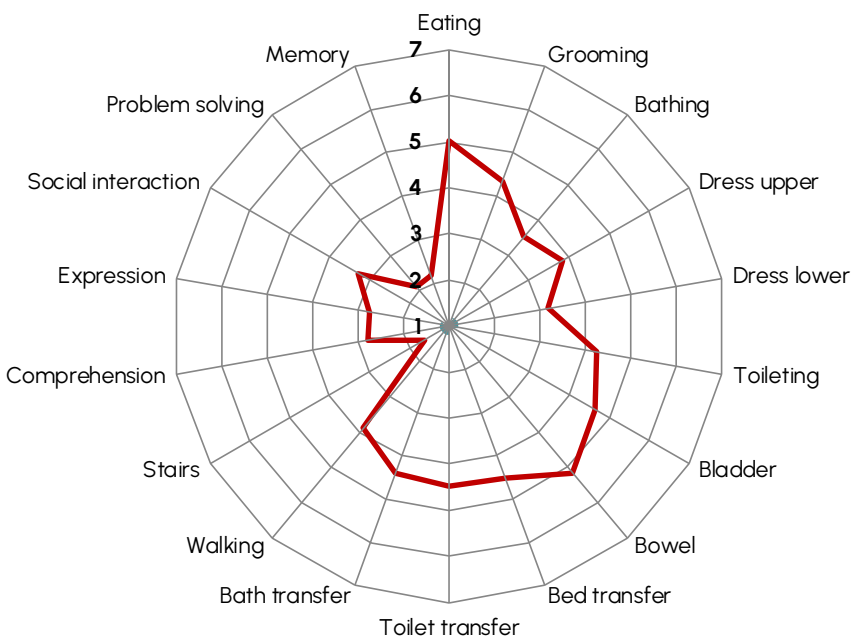
NOTE: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AA5



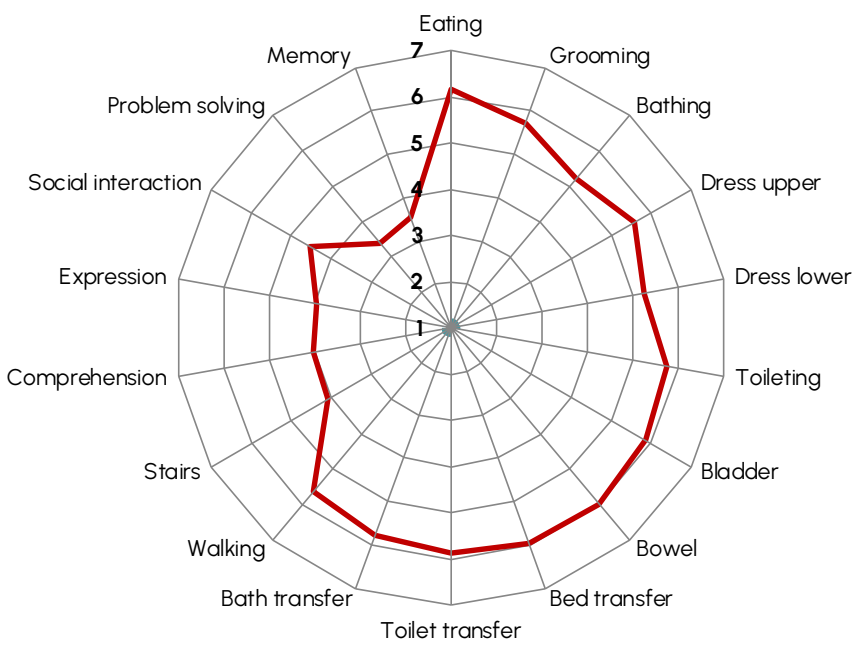
5AA5 Admission FIM scores

- YOUR FACILITY (n<5)
- AUSTRALIA (n=330)



5AA5 Discharge FIM scores

- YOUR FACILITY (n<5)
- AUSTRALIA (n=330)



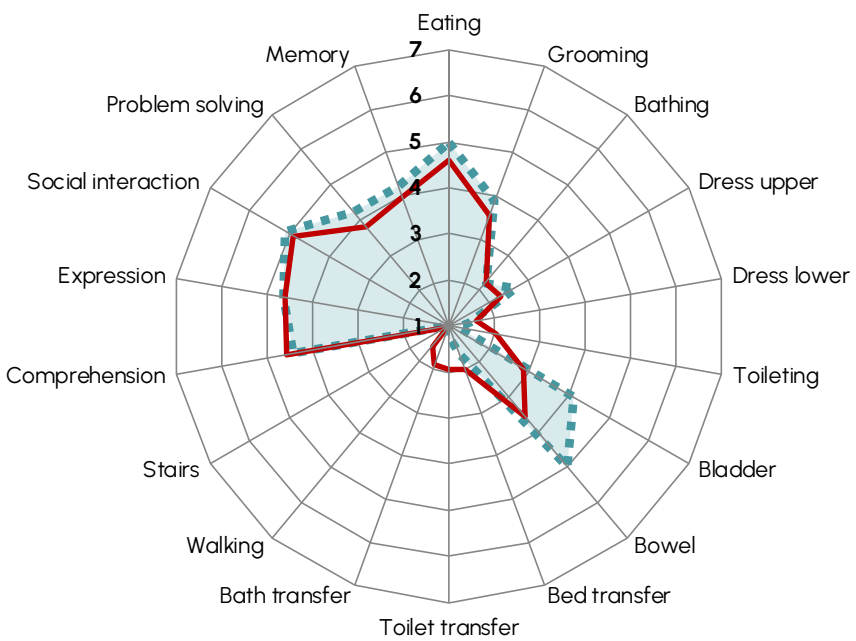
NOTE: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AA6



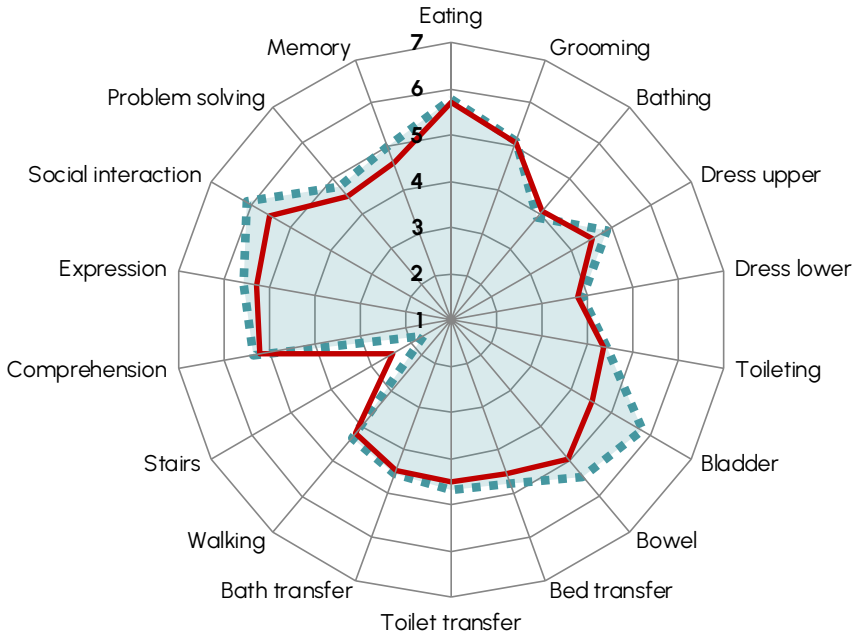
5AA6 Admission FIM scores

- YOUR FACILITY (n=9)
- AUSTRALIA (n=922)



5AA6 Discharge FIM scores

- YOUR FACILITY (n=9)
- AUSTRALIA (n=922)



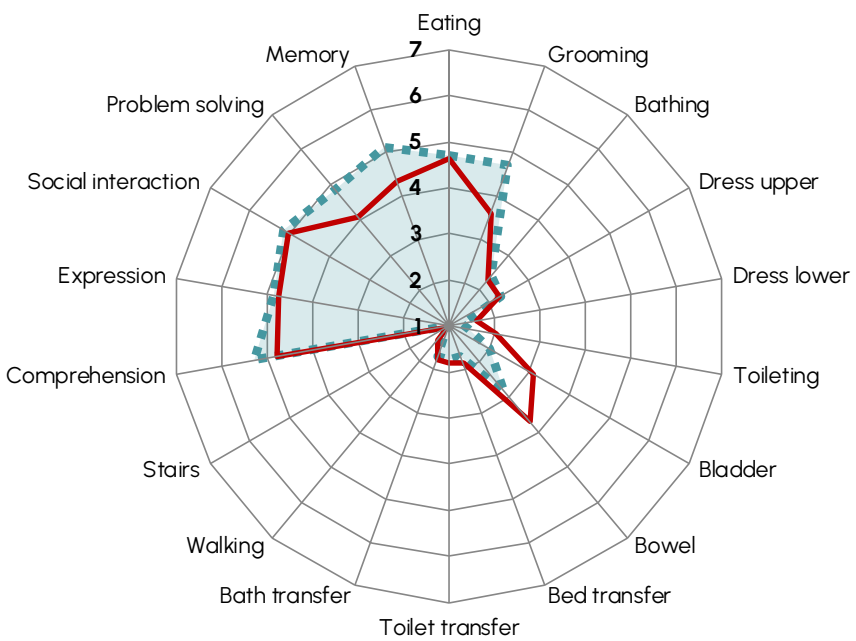
NOTE: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AA7



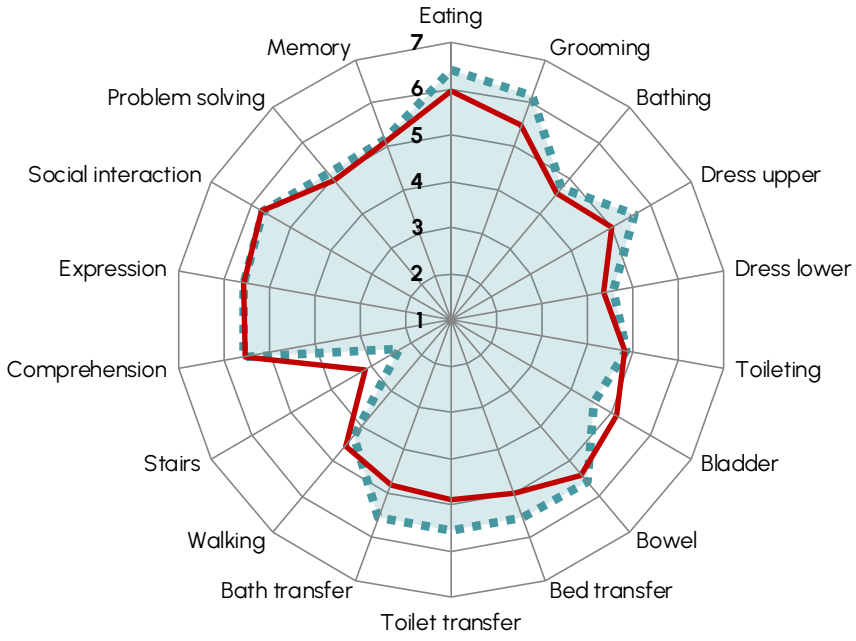
5AA7 Admission FIM scores

- YOUR FACILITY (n=7)
- AUSTRALIA (n=844)



5AA7 Discharge FIM scores

- YOUR FACILITY (n=7)
- AUSTRALIA (n=844)



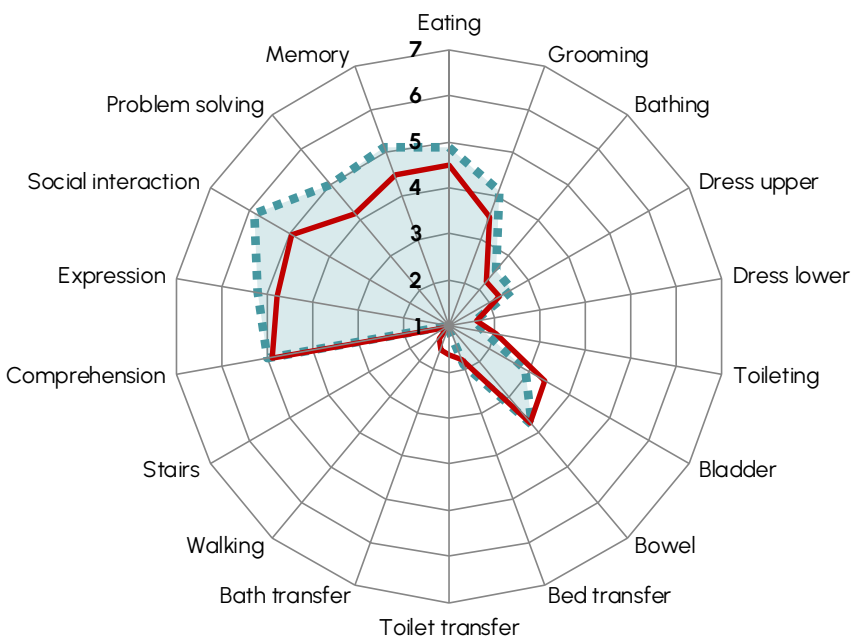
NOTE: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AA8



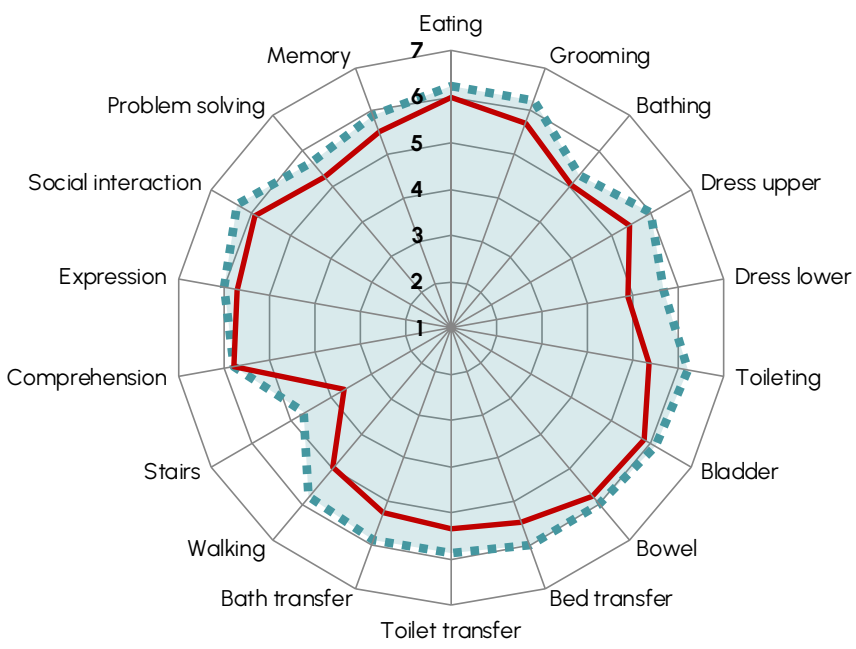
5AA8 Admission FIM scores

- YOUR FACILITY (n=9)
- AUSTRALIA (n=614)



5AA8 Discharge FIM scores

- YOUR FACILITY (n=9)
- AUSTRALIA (n=614)



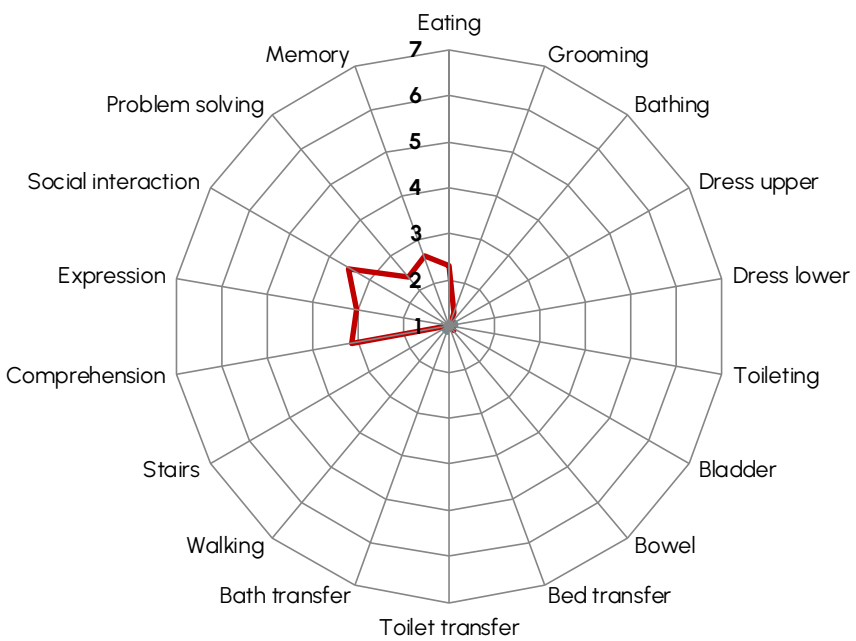
NOTE: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AZ3



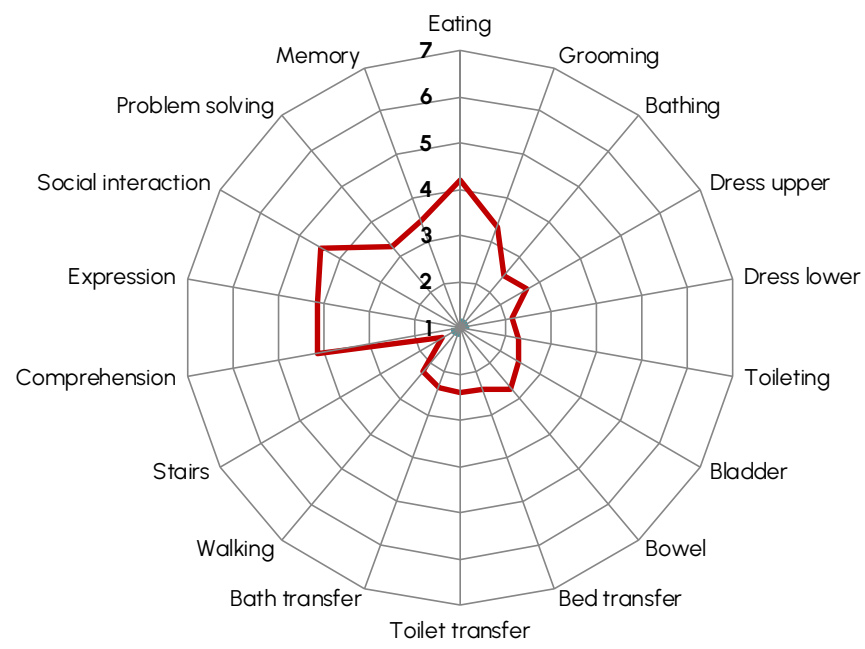
5AZ3 Admission FIM scores

- YOUR FACILITY (n<5)
- AUSTRALIA (n=329)



5AZ3 Discharge FIM scores

- YOUR FACILITY (n<5)
- AUSTRALIA (n=329)



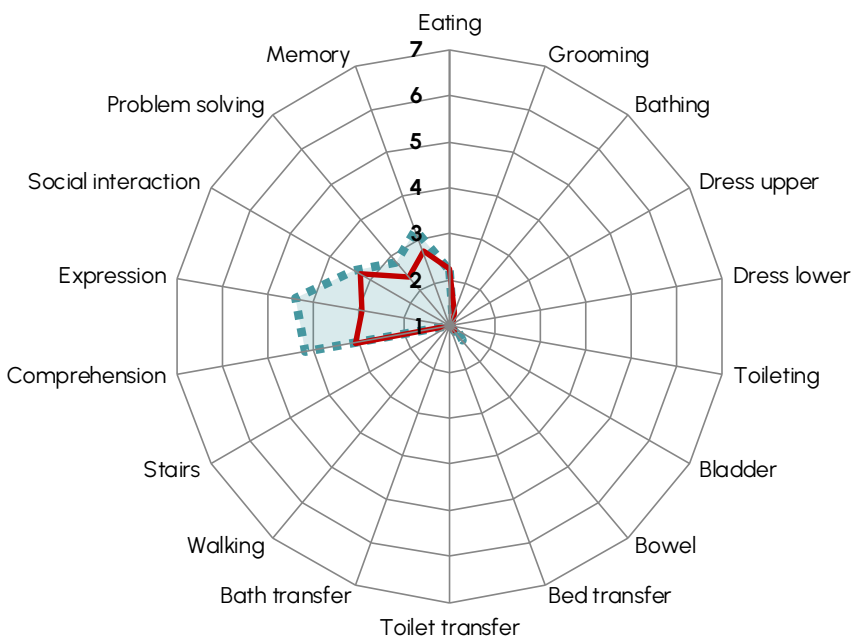
NOTE: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AZ4



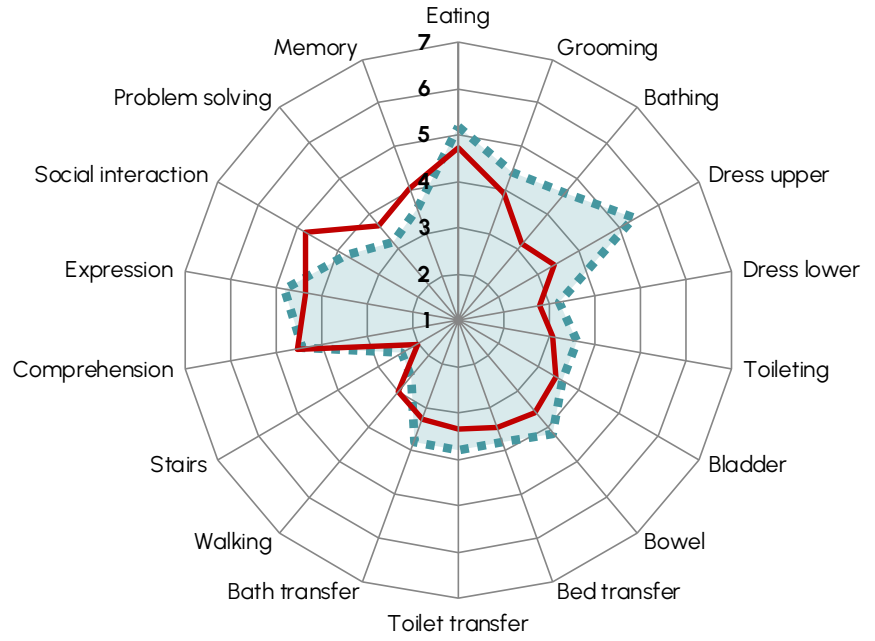
5AZ4 Admission FIM scores

- YOUR FACILITY (n=5)
- AUSTRALIA (n=478)

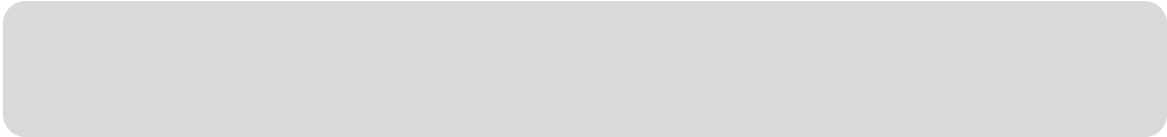


5AZ4 Discharge FIM scores

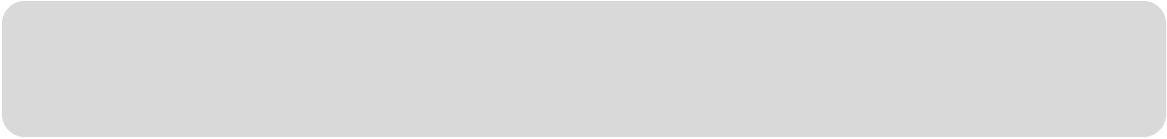
- YOUR FACILITY (n=5)
- AUSTRALIA (n=478)



NOTE: Includes only completed episodes with valid FIM scores



Outcomes Analysis



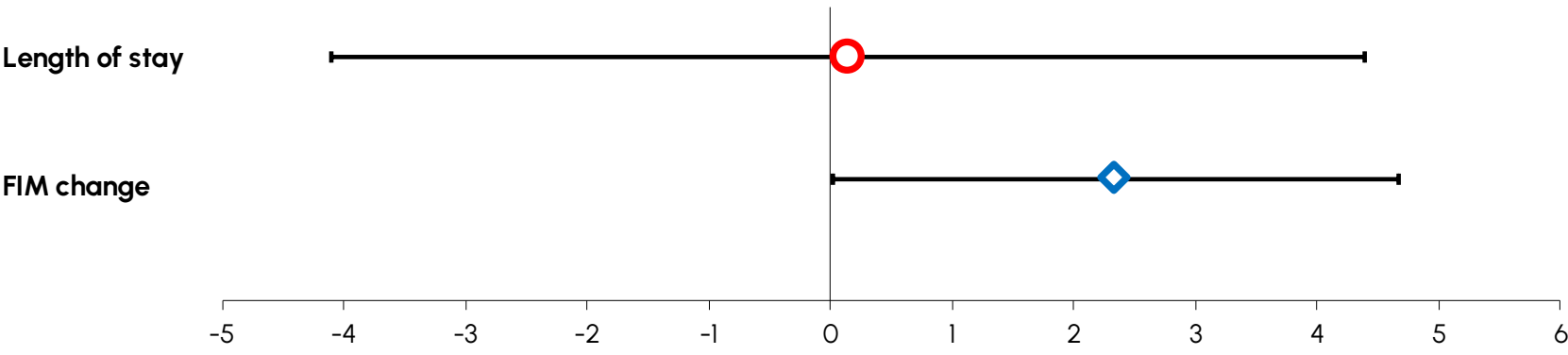
Completed episodes by AN-SNAP class and impairment

AN-SNAP class V5	YOUR FACILITY			AUSTRALIA		
	All episodes	Completed episodes	% Complete	All episodes	Completed episodes	% Complete
5AA1 (motor 63-91, cognition 30-35)	14	13	92.9	1,218	1,142	93.8
5AA2 (motor 63-91, cognition 21-29)	7	7	100.0	1,012	937	92.6
5AA3 (motor 63-91, cognition 5-20)	9	7	77.8	462	411	89.0
5AA4 (motor 44-62, cognition 18-35)	31	29	93.5	2,381	2,074	87.1
5AA5 (motor 44-62, cognition 5-17)	4	3	75.0	423	330	78.0
5AA6 (motor 19-43, Age ≥ 80)	10	9	90.0	1,160	922	79.5
5AA7 (motor 19-43, Age 67-79)	11	7	63.6	1,105	844	76.4
5AA8 (motor 19-43, Age ≤ 66)	11	9	81.8	850	614	72.2
5AZ3 (motor 13-18, Age ≥ 79)	2	1	50.0	509	331	65.0
5AZ4 (motor 13-18, Age ≤ 78)	14	5	35.7	810	479	59.1
All Stroke AN-SNAP Classes	113	90	79.6	9,930	8,084	81.4

Impairment	YOUR FACILITY			AUSTRALIA		
	All episodes	Completed episodes	% Complete	All episodes	Completed episodes	% Complete
1.1 Haemorrhagic	21	14	66.7	2,542	2,017	79.3
1.2 Ischaemic	93	76	81.7	7,404	6,072	82.0
All Stroke	114	90	78.9	9,946	8,089	81.3

NOTE: All outcomes analysis are based on completed episodes. A definition of completed episodes can be found in Appendix 1 (Glossary).

Casemix-adjusted* relative means

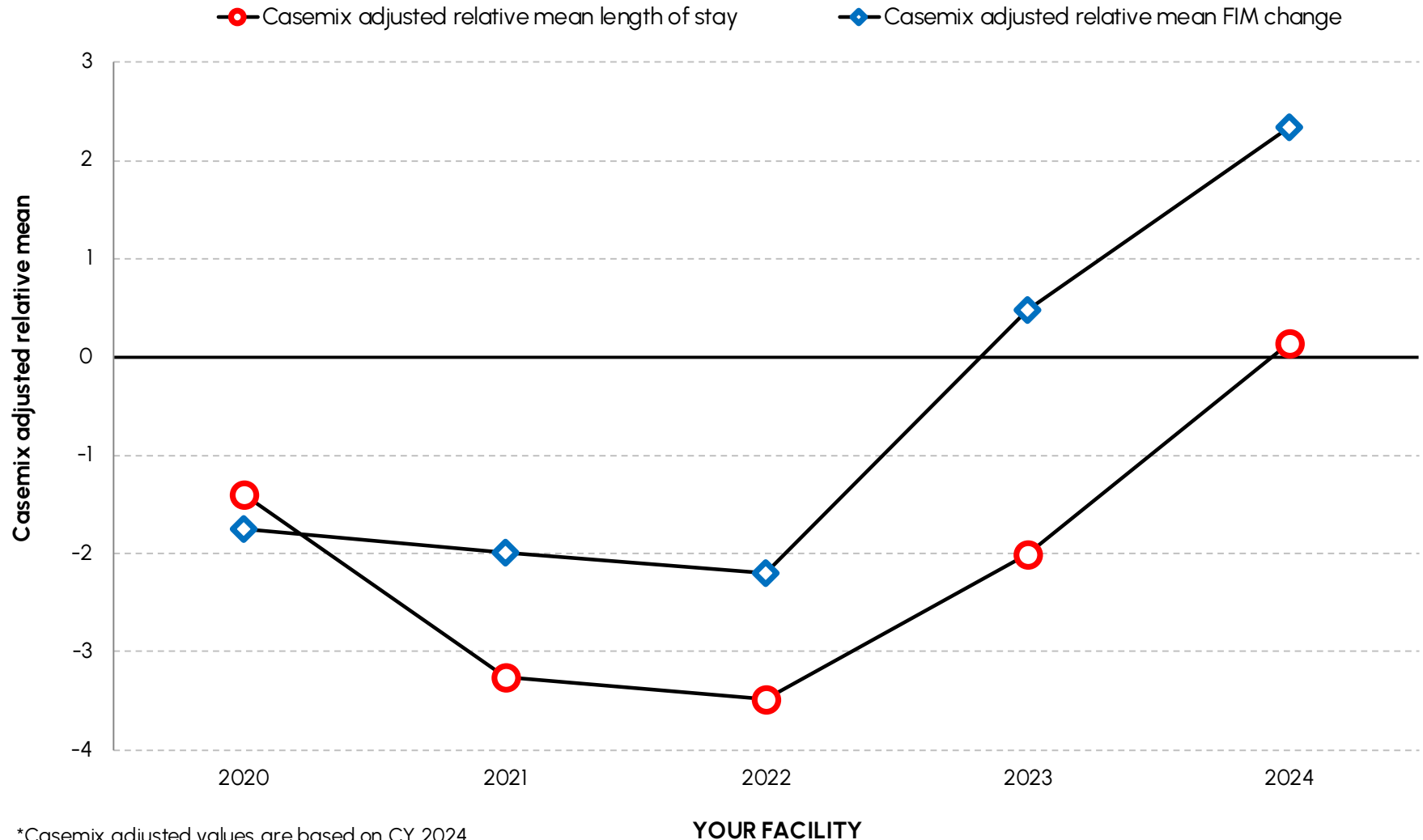


Casemix-adjusted relative means with 95% confidence intervals

Outcome measure	YOUR FACILITY		AUSTRALIA
	Casemix-adjusted* relative mean	95% CI	National IQR
Length of stay	0.1	-4.1 to 4.4	-10.1 to 5.9
FIM change	2.3	0.0 to 4.7	-9.0 to 9.0

*Includes only completed episodes with valid FIM scores and LOS

Casemix-adjusted* relative means over time



*Casemix adjusted values are based on CY 2024

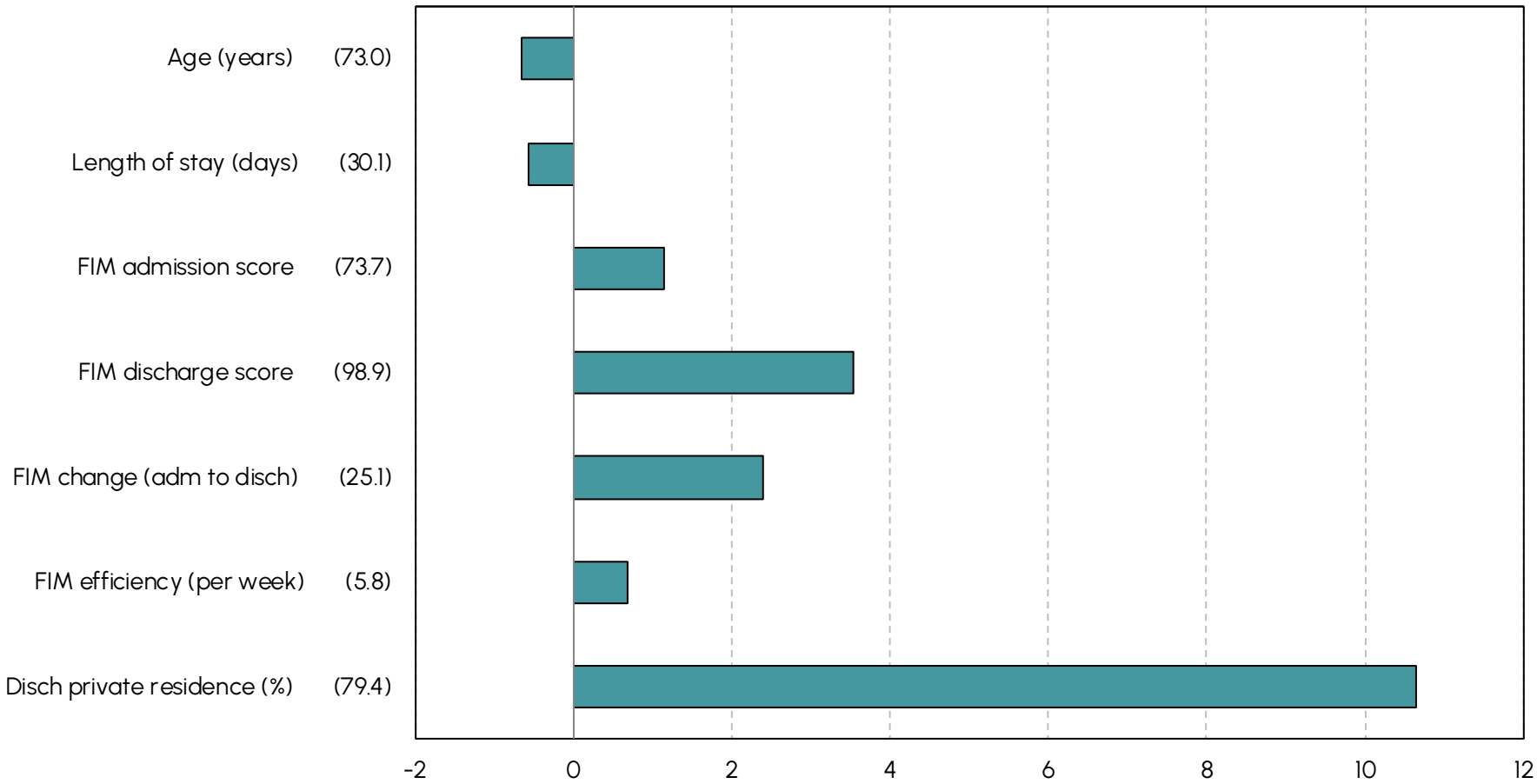
NOTE: Includes only completed episodes with valid FIM scores and LOS; where n<5 the casemix-adjusted relative mean will not be shown

Outcome measures – difference from National



How YOUR FACILITY is different to AUSTRALIA

AUSTRALIA



Lower than AUSTRALIA

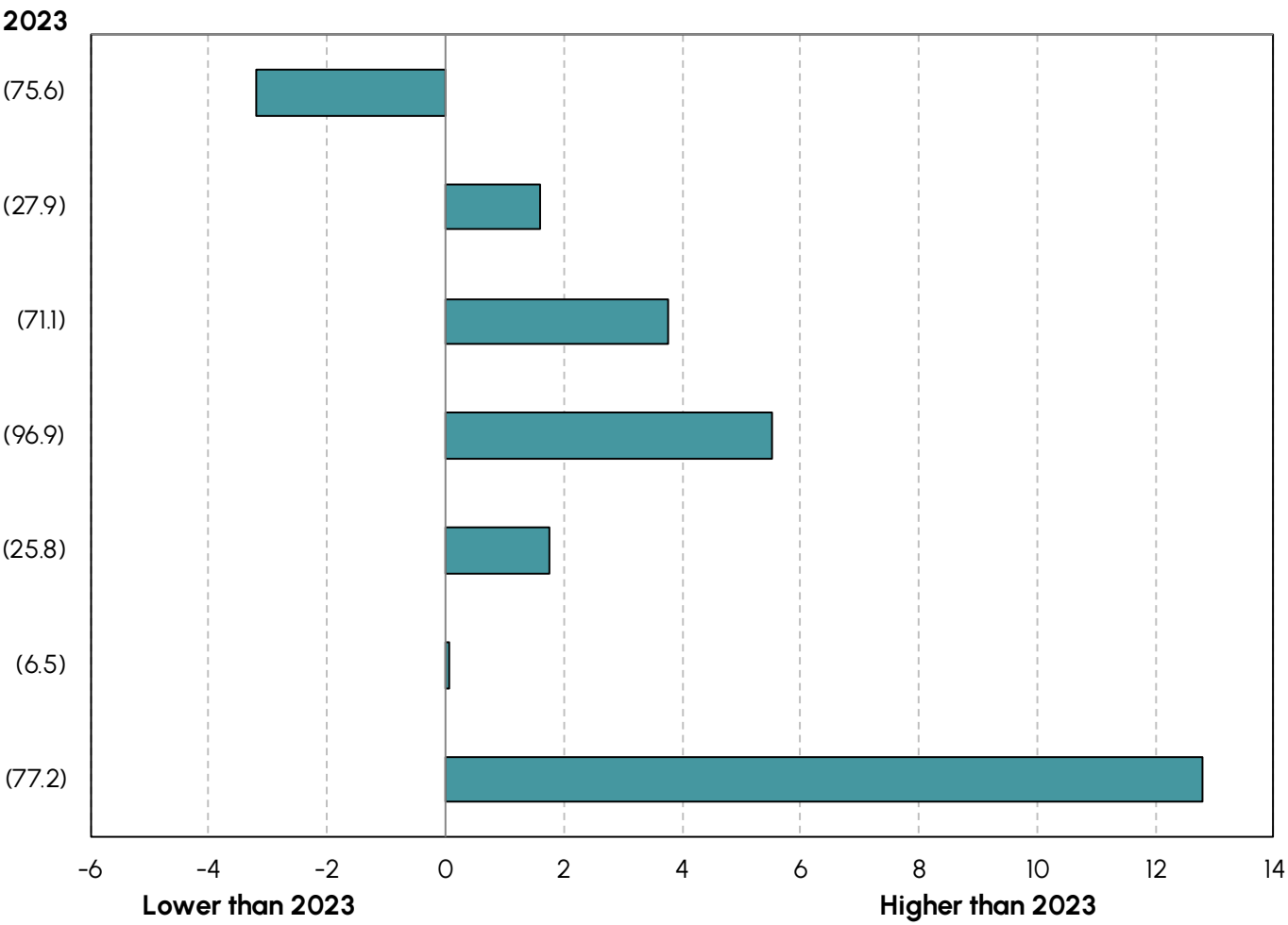
Higher than AUSTRALIA

NOTE: Includes only completed episodes with valid FIM scores and LOS

Outcome measures – difference from last year

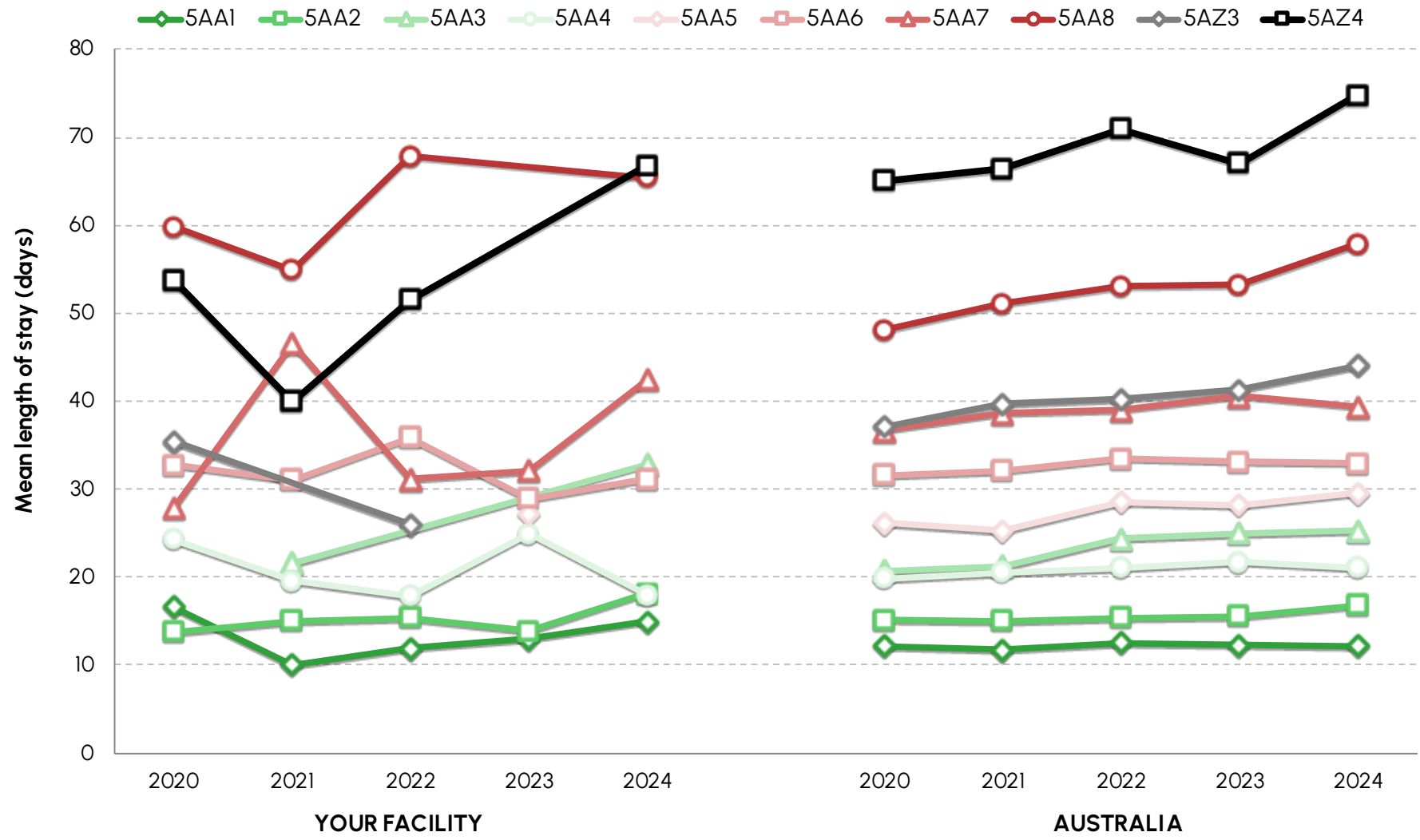


How YOUR FACILITY has changed since 2023



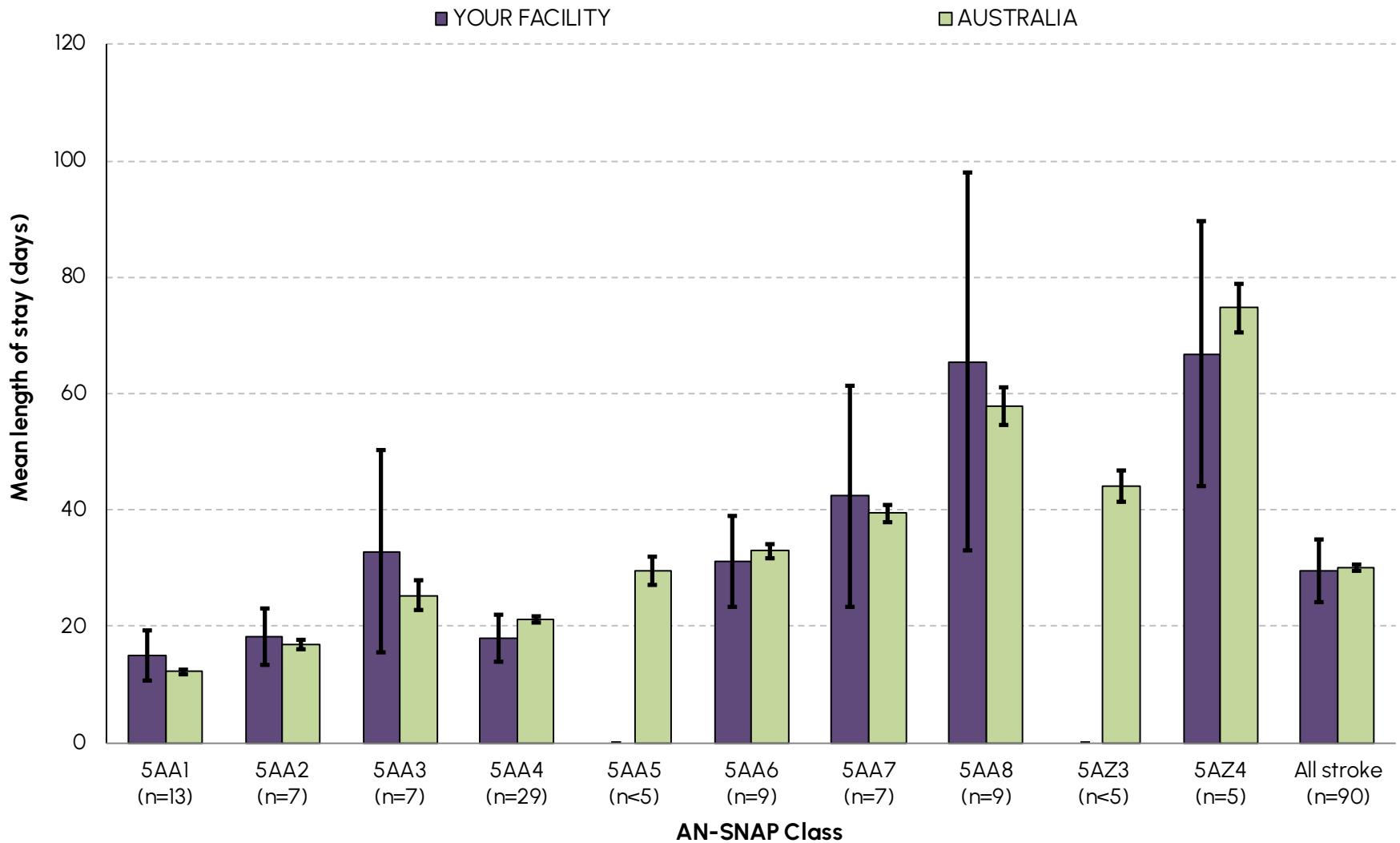
NOTE: Includes only completed episodes with valid FIM scores and LOS

Mean length of stay by AN-SNAP class over time



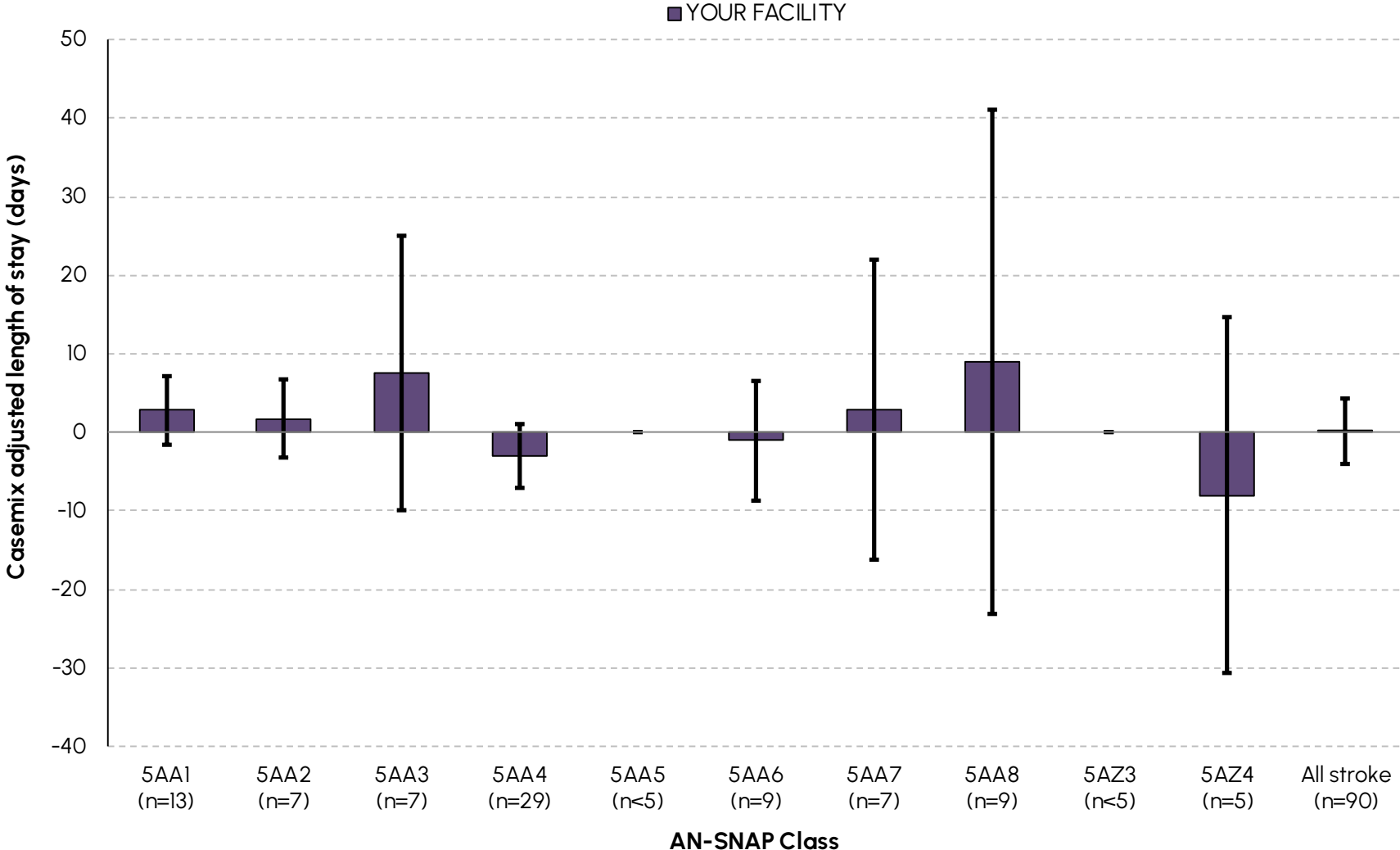
NOTE: Includes only completed episodes with valid LOS; where n<5 Mean LOS will not be shown

Mean length of stay by AN-SNAP class



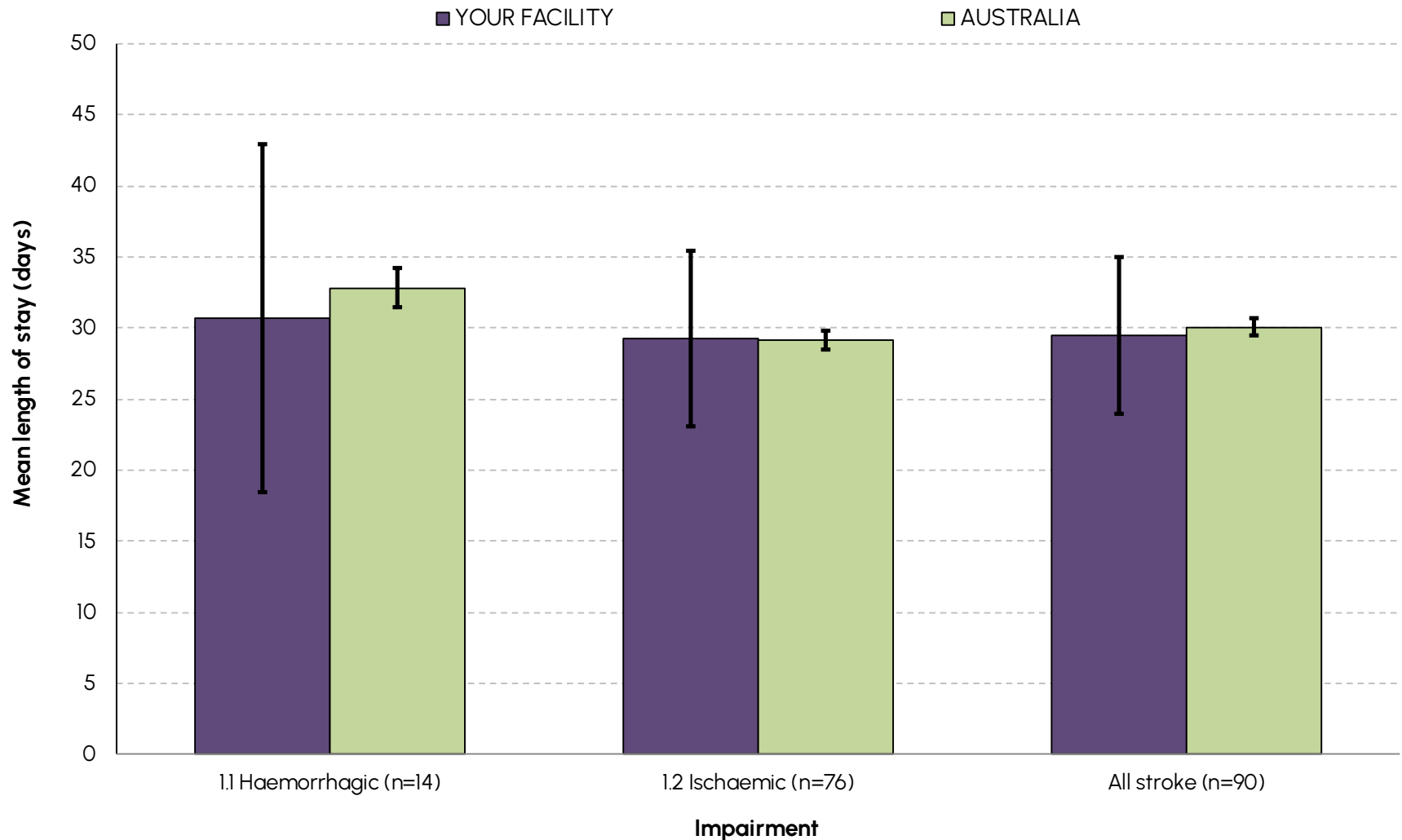
NOTE: Includes only completed episodes with valid LOS; where n<5 Mean LOS will not be shown

Casemix-adjusted relative mean length of stay by AN-SNAP class



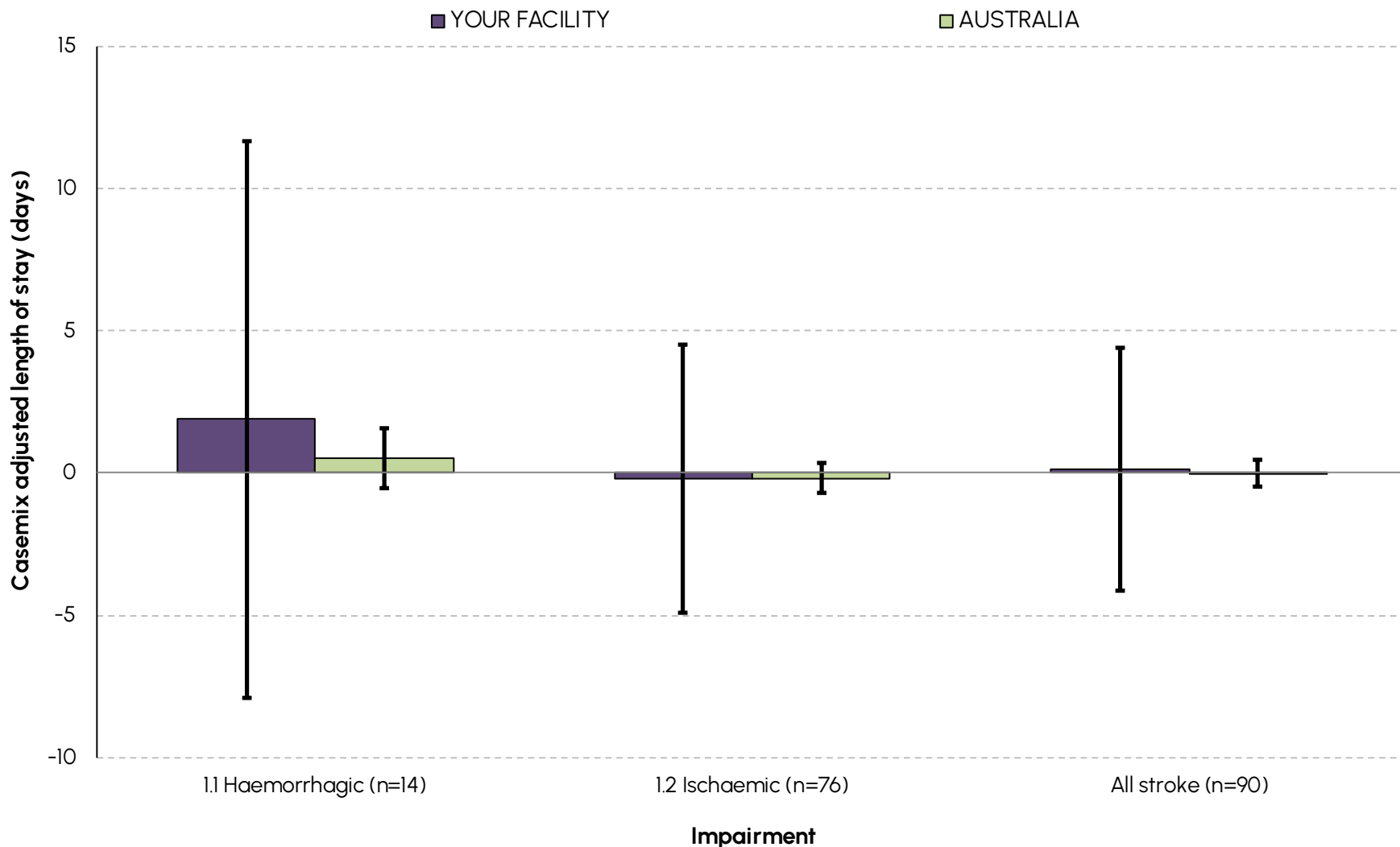
NOTE: Includes only completed episodes with valid LOS; where n<5 CARMi LOS will not be shown

Mean length of stay by impairment



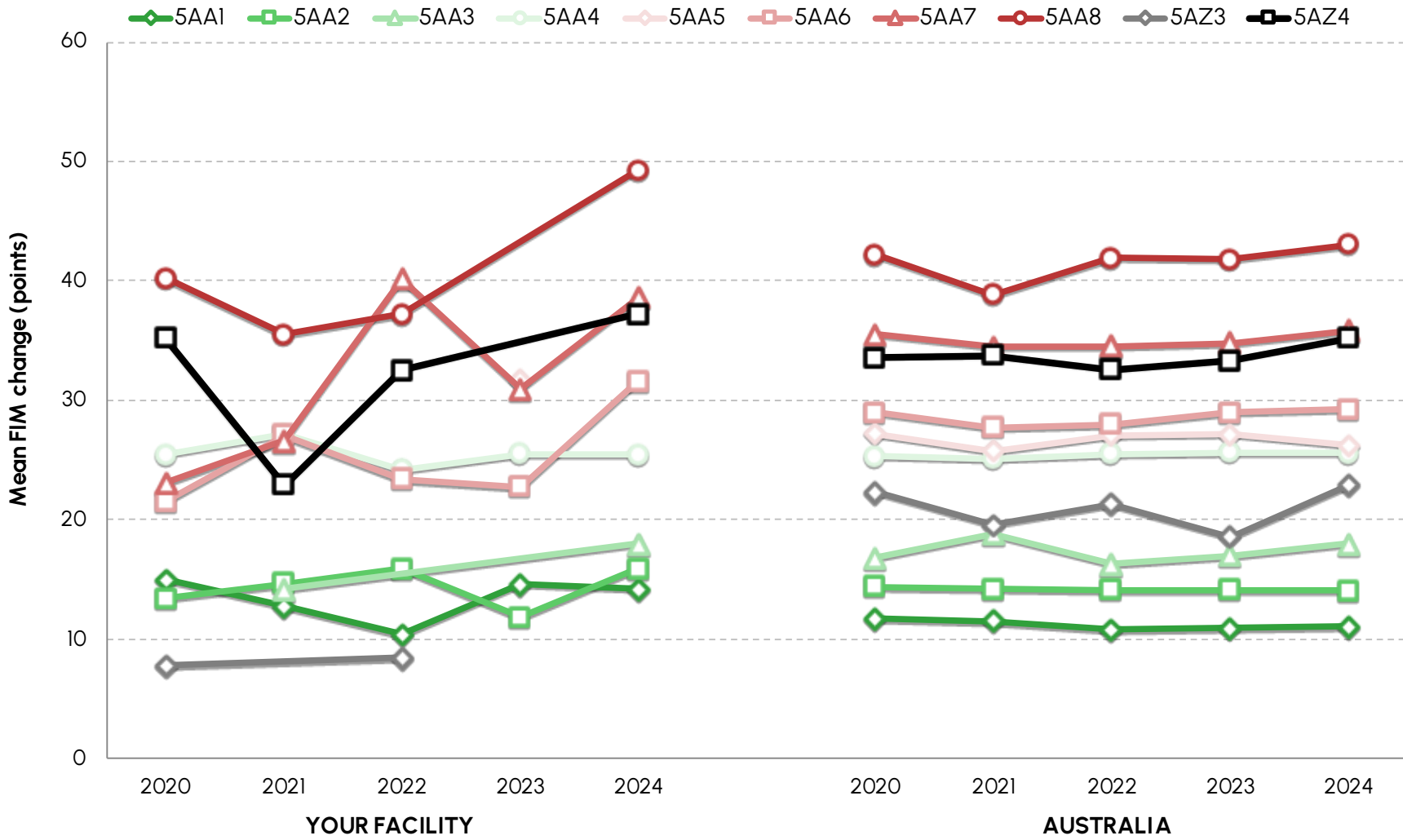
NOTE: Includes only completed episodes with valid LOS; where n<5 Mean LOS will not be shown

Casemix-adjusted relative mean length of stay by impairment



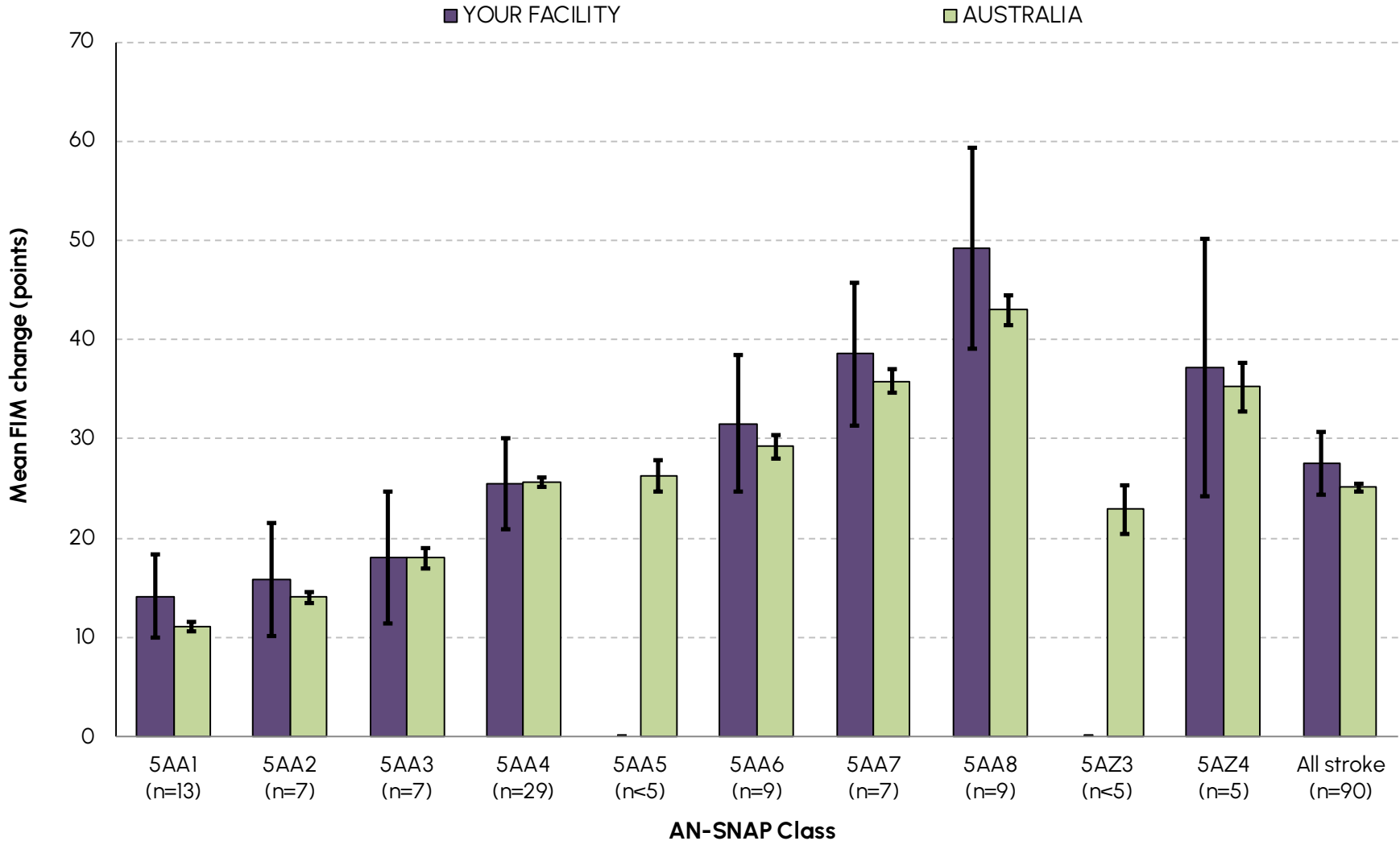
NOTE: Includes only completed episodes with valid LOS; where n<5 CARMI LOS will not be shown

Mean FIM change by AN-SNAP class over time



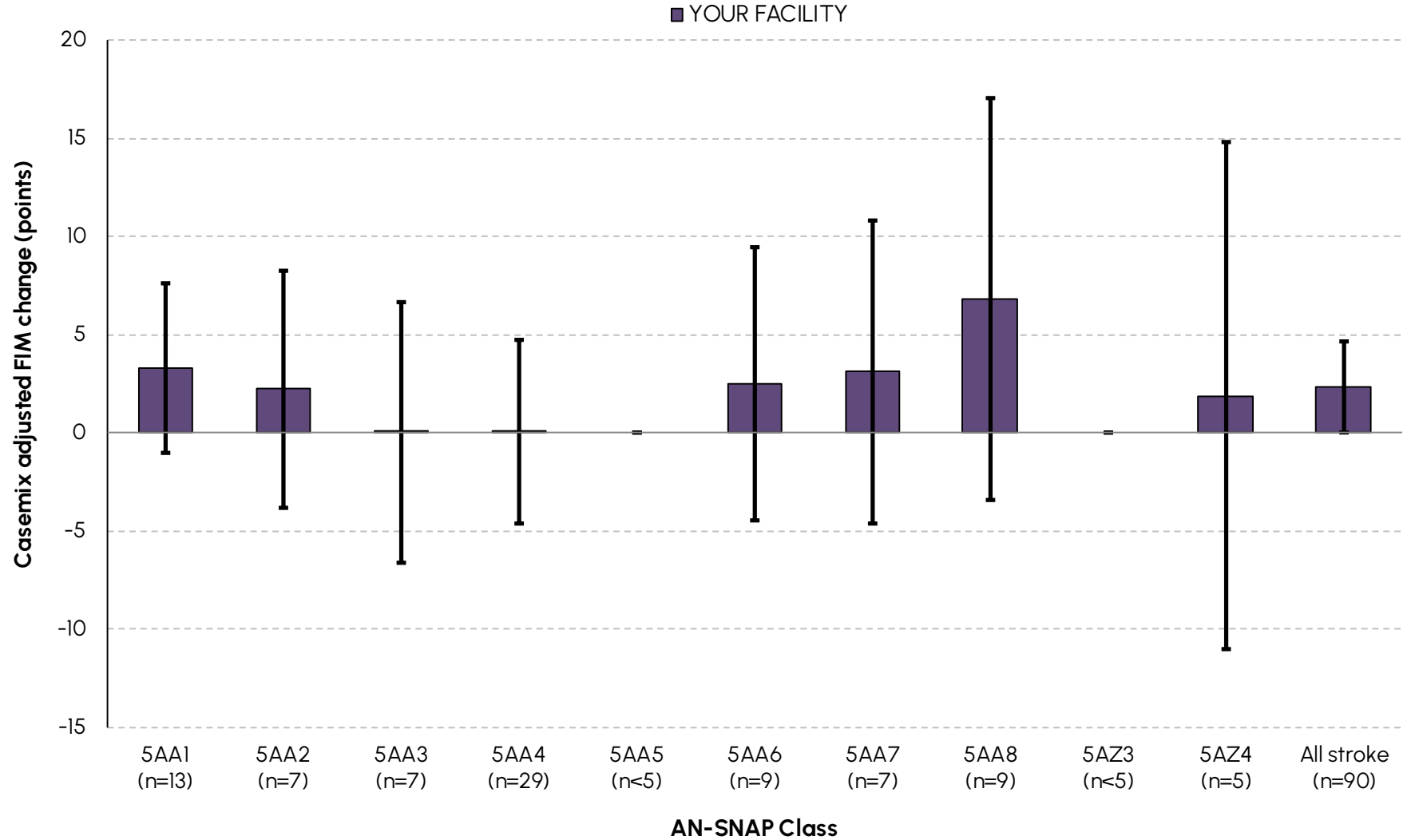
NOTE: Includes only completed episodes with valid FIM scores; where n<5 mean FIM change will not be shown

Mean FIM change by AN-SNAP class



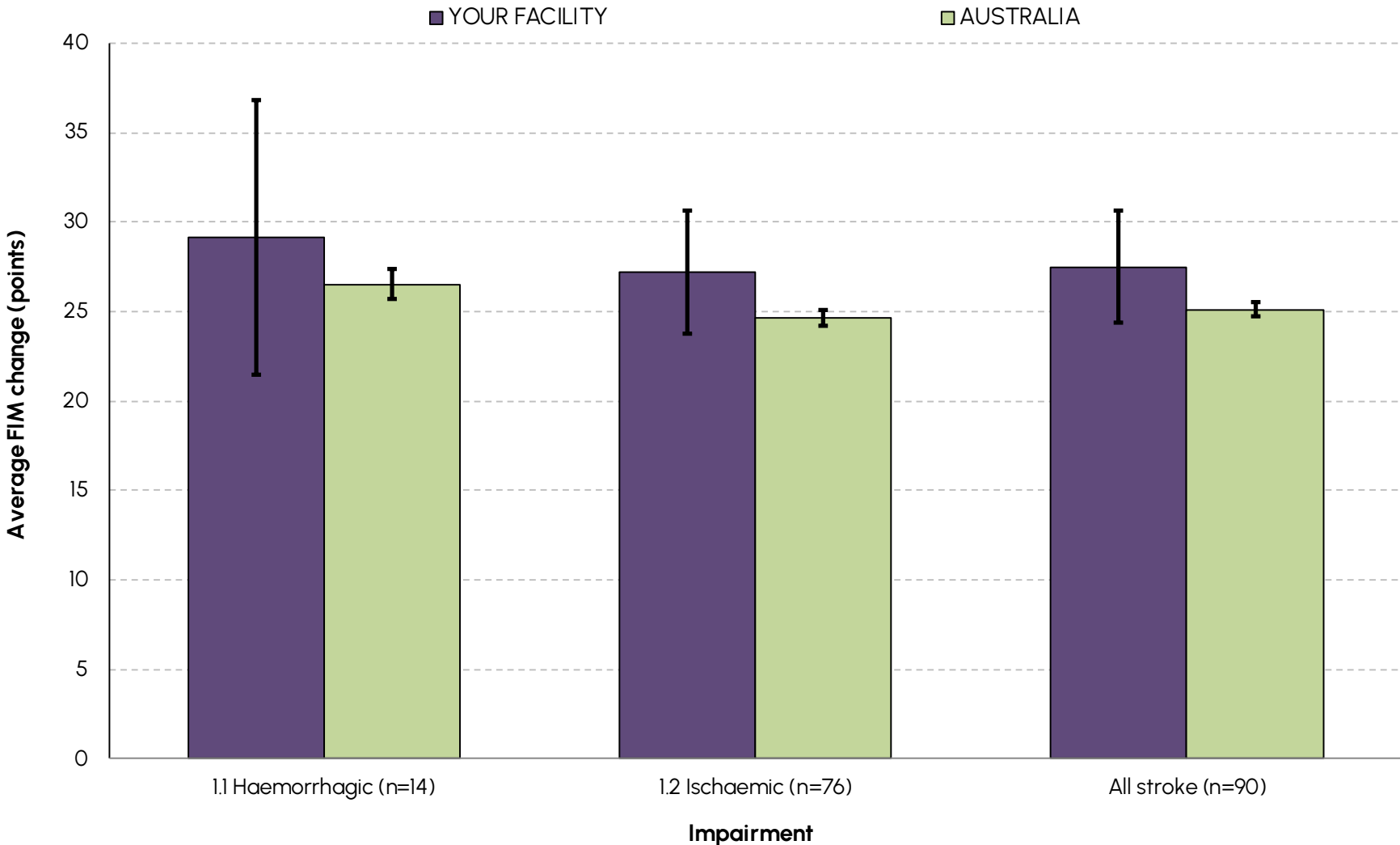
NOTE: Includes only completed episodes with valid FIM scores; where n<5 mean FIM change will not be shown

Casemix-adjusted relative mean FIM change by AN-SNAP class



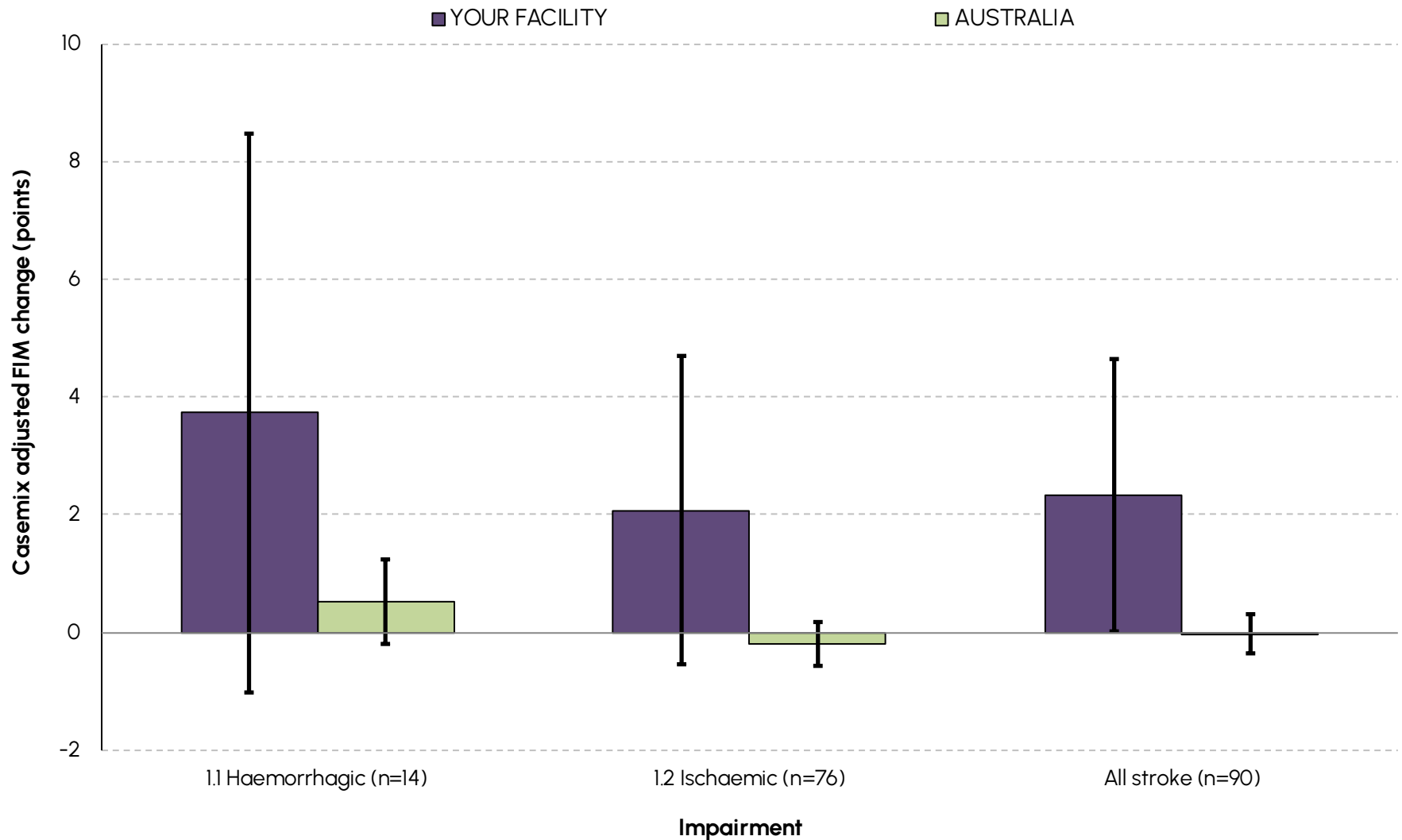
NOTE: Includes only completed episodes with valid FIM scores; where n<5 CARMi FIM change will not be shown

Mean FIM change by impairment



NOTE: Includes only completed episodes with valid FIM scores; where n<5 mean FIM change will not be shown

Casemix-adjusted relative mean FIM change by impairment



NOTE: Includes only completed episodes with valid FIM scores; where n<5 CARMi FIM change will not be shown

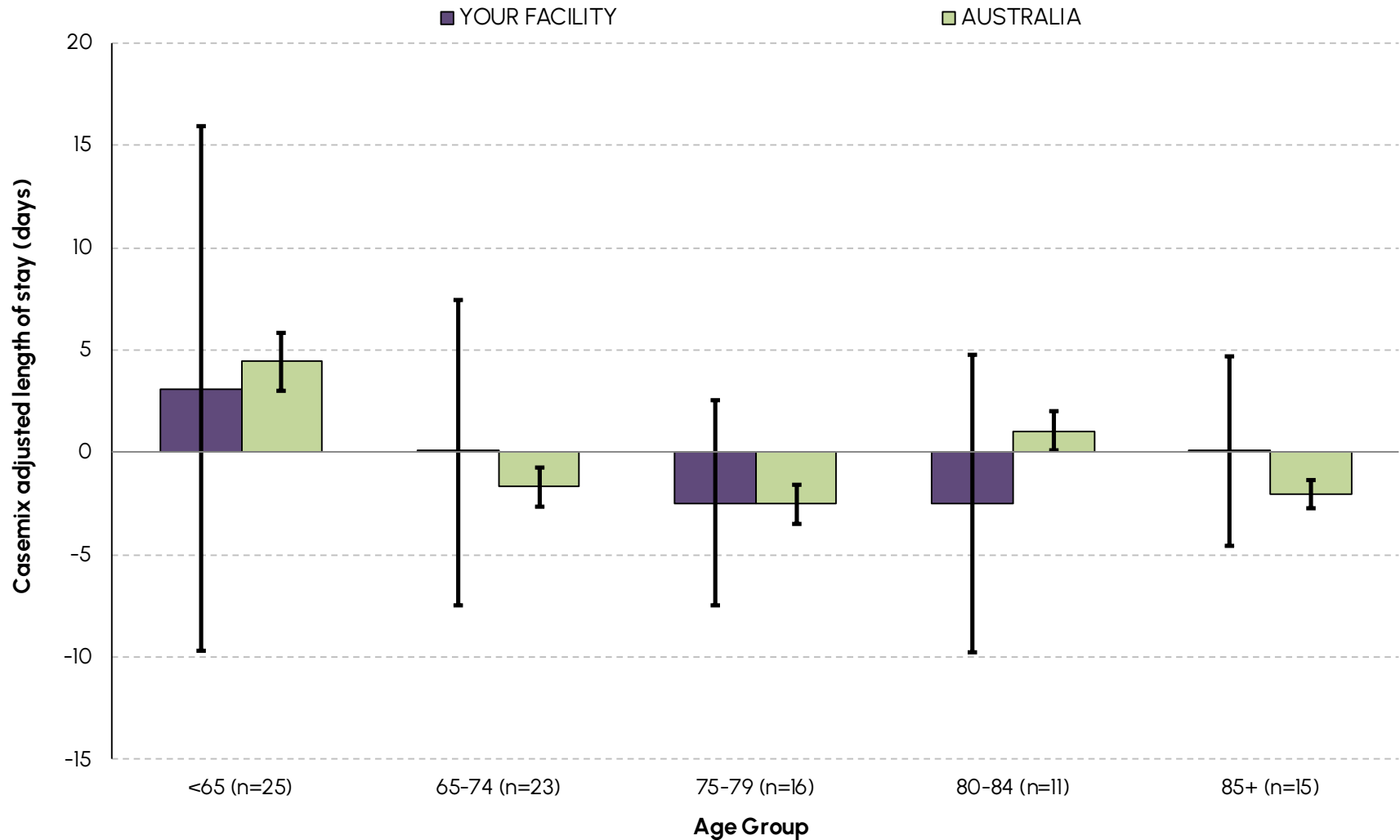
Case-mix-adjusted relative mean and mean length of stay and FIM change by AN-SNAP class and impairment

AN-SNAP class V5	YOUR FACILITY						AUSTRALIA			
	CARM1 (95%CI)			Mean (95%CI)			Mean (95%CI)			
	LOS	FIM change		LOS	FIM change		LOS	FIM change		
5AA1 (motor 63-91, cognition 30-35)	2.8 (-1.5 – 7.1)	3.3 (-1.1 – 7.7)	14.9 (10.6 – 19.3)	14.2 (9.9 – 18.4)	12.2 (11.7 – 12.6)	11.1 (10.6 – 11.5)				
5AA2 (motor 63-91, cognition 21-29)	1.7 (-3.3 – 6.7)	2.2 (-3.8 – 8.3)	18.1 (13.3 – 23.0)	15.9 (10.1 – 21.6)	16.8 (16.0 – 17.6)	14.0 (13.4 – 14.6)				
5AA3 (motor 63-91, cognition 5-20)	7.5 (-9.9 – 25.0)	0.0 (-6.6 – 6.7)	32.9 (15.4 – 50.3)	18.0 (11.4 – 24.6)	25.3 (22.8 – 27.8)	18.0 (17.0 – 18.9)				
5AA4 (motor 44-62, cognition 18-35)	-3.0 (-7.1 – 1.0)	0.1 (-4.6 – 4.8)	18.0 (13.9 – 22.0)	25.4 (20.9 – 30.0)	21.1 (20.5 – 21.7)	25.6 (25.1 – 26.1)				
5AA5 (motor 44-62, cognition 5-17)	—	—	—	—	29.5 (27.2 – 31.8)	26.2 (24.7 – 27.8)				
5AA6 (motor 19-43, Age ≥ 80)	-1.0 (-8.7 – 6.6)	2.5 (-4.5 – 9.5)	31.1 (23.3 – 38.9)	31.6 (24.7 – 38.4)	33.0 (31.8 – 34.1)	29.3 (28.1 – 30.4)				
5AA7 (motor 19-43, Age 67-79)	2.9 (-16.3 – 22.0)	3.1 (-4.6 – 10.8)	42.4 (23.4 – 61.5)	38.6 (31.4 – 45.8)	39.4 (37.8 – 40.9)	35.8 (34.6 – 37.1)				
5AA8 (motor 19-43, Age ≤ 66)	9.0 (-23.2 – 41.1)	6.8 (-3.5 – 17.1)	65.4 (32.9 – 97.9)	49.2 (39.1 – 59.3)	57.9 (54.6 – 61.2)	43.0 (41.5 – 44.5)				
5AZ3 (motor 13-18, Age ≥ 79)	—	—	—	—	44.1 (41.3 – 46.9)	22.9 (20.4 – 25.4)				
5AZ4 (motor 13-18, Age ≤ 78)	-8.0 (-30.8 – 14.7)	1.9 (-11.1 – 14.8)	66.8 (44.1 – 89.5)	37.2 (24.3 – 50.1)	74.8 (70.6 – 79.0)	35.2 (32.8 – 37.6)				
All Stroke AN-SNAP Classes	0.1 (-4.1 – 4.4)	2.3 (0.0 – 4.7)	29.5 (24.0 – 35.0)	27.5 (24.4 – 30.6)	30.1 (29.5 – 30.7)	25.1 (24.7 – 25.5)				

Impairment	YOUR FACILITY						AUSTRALIA			
	CARM1 (95%CI)			Mean (95%CI)			Mean (95%CI)			
	LOS	FIM change		LOS	FIM change		LOS	FIM change		
1.1 Haemorrhagic	1.9 (-7.9 – 11.7)	3.7 (-1.0 – 8.5)	30.7 (18.4 – 43.0)	29.1 (21.5 – 36.8)	32.9 (31.5 – 34.2)	26.5 (25.7 – 27.4)				
1.2 Ischaemic	-0.2 (-4.9 – 4.5)	2.1 (-0.5 – 4.7)	29.3 (23.1 – 35.4)	27.2 (23.8 – 30.6)	29.2 (28.5 – 29.8)	24.6 (24.2 – 25.1)				
All Stroke	0.1 (-4.1 – 4.4)	2.3 (0.0 – 4.7)	29.5 (24.0 – 35.0)	27.5 (24.4 – 30.6)	30.1 (29.5 – 30.7)	25.1 (24.7 – 25.5)				

NOTE: Includes only completed episodes with valid FIM scores and LOS, where n<5 scores will not be shown.

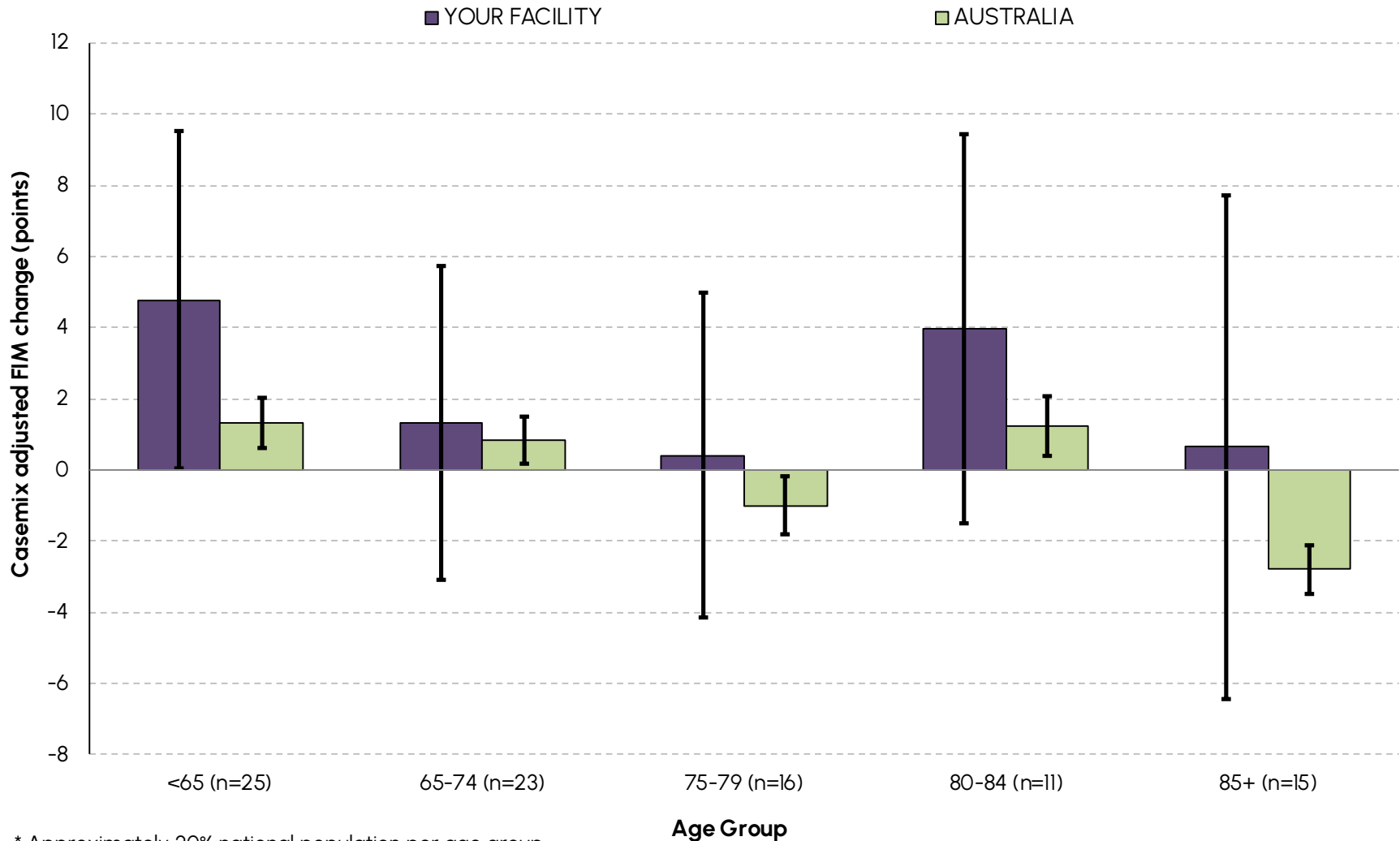
Casemix-adjusted relative mean length of stay by age group*



* Approximately 20% national population per age group

NOTE: Includes only completed episodes with valid LOS; where n<5 CARMi LOS will not be shown

Casemix-adjusted relative mean FIM change by age group*



* Approximately 20% national population per age group

NOTE: Includes only completed episodes with valid FIM scores; where n<5 CARMI FIM Change will not be shown

Mean and casemix-adjusted relative mean length of stay and FIM change by age group*

Age group	YOUR FACILITY		AUSTRALIA	
	Mean LOS (95% CI)	Mean FIM change (95% CI)	Mean LOS (95% CI)	Mean FIM change (95% CI)
<65	44.8 (30.4 – 59.3)	35.0 (28.5 – 41.5)	39.1 (37.3 – 41.0)	27.5 (26.6 – 28.4)
65-74	28.5 (17.4 – 39.6)	26.7 (20.5 – 32.8)	29.0 (27.8 – 30.1)	26.5 (25.7 – 27.2)
75-79	17.0 (11.7 – 22.3)	19.9 (14.3 – 25.4)	27.7 (26.6 – 28.9)	24.8 (23.9 – 25.7)
80-84	19.4 (13.1 – 25.6)	24.9 (18.4 – 31.4)	27.3 (26.1 – 28.4)	24.3 (23.4 – 25.2)
85+	26.3 (20.4 – 32.3)	26.3 (18.9 – 33.8)	24.8 (24.1 – 25.6)	21.5 (20.8 – 22.3)

Age group	YOUR FACILITY		AUSTRALIA	
	CARMI LOS (95% CI)	CARMI FIM change (95% CI)	CARMI LOS (95% CI)	CARMI FIM change (95% CI)
<65	3.1 (-9.7 – 15.9)	4.8 (0.0 – 9.5)	4.4 (3.0 – 5.9)	1.3 (0.6 – 2.0)
65-74	0.0 (-7.4 – 7.5)	1.3 (-3.1 – 5.7)	-1.7 (-2.6 – -0.7)	0.8 (0.2 – 1.5)
75-79	-2.5 (-7.5 – 2.5)	0.4 (-4.2 – 5.0)	-2.5 (-3.5 – -1.6)	-1.0 (-1.8 – -0.2)
80-84	-2.5 (-9.8 – 4.8)	4.0 (-1.5 – 9.4)	1.1 (0.1 – 2.0)	1.2 (0.4 – 2.1)
85+	0.1 (-4.6 – 4.7)	0.7 (-6.4 – 7.7)	-2.0 (-2.7 – -1.3)	-2.8 (-3.5 – -2.1)

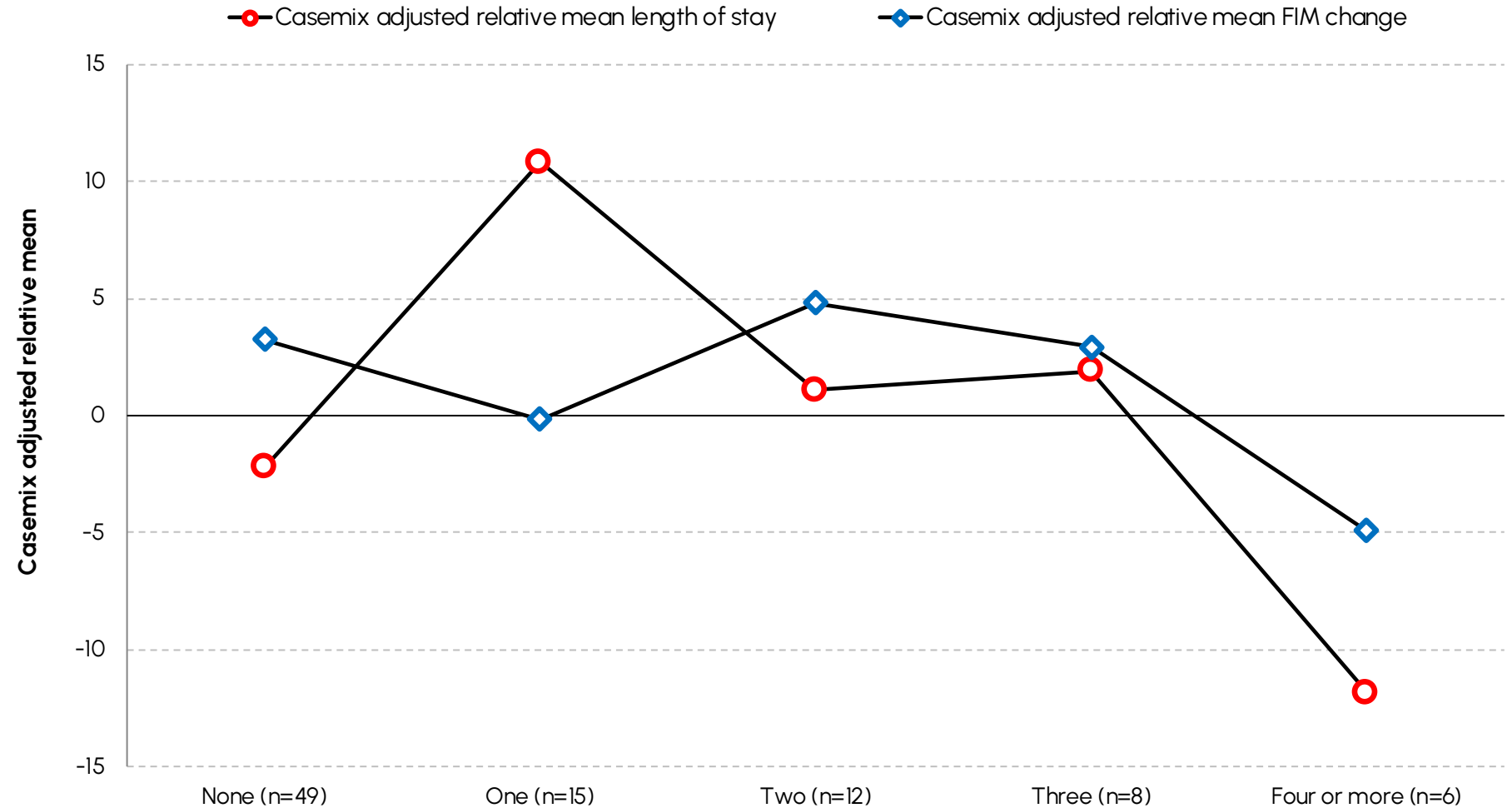
*Approximately 20% national population per age group

NOTE: Includes only completed episodes with valid FIM scores and LOS and age, where n<5 scores will not be shown.



Explanatory data

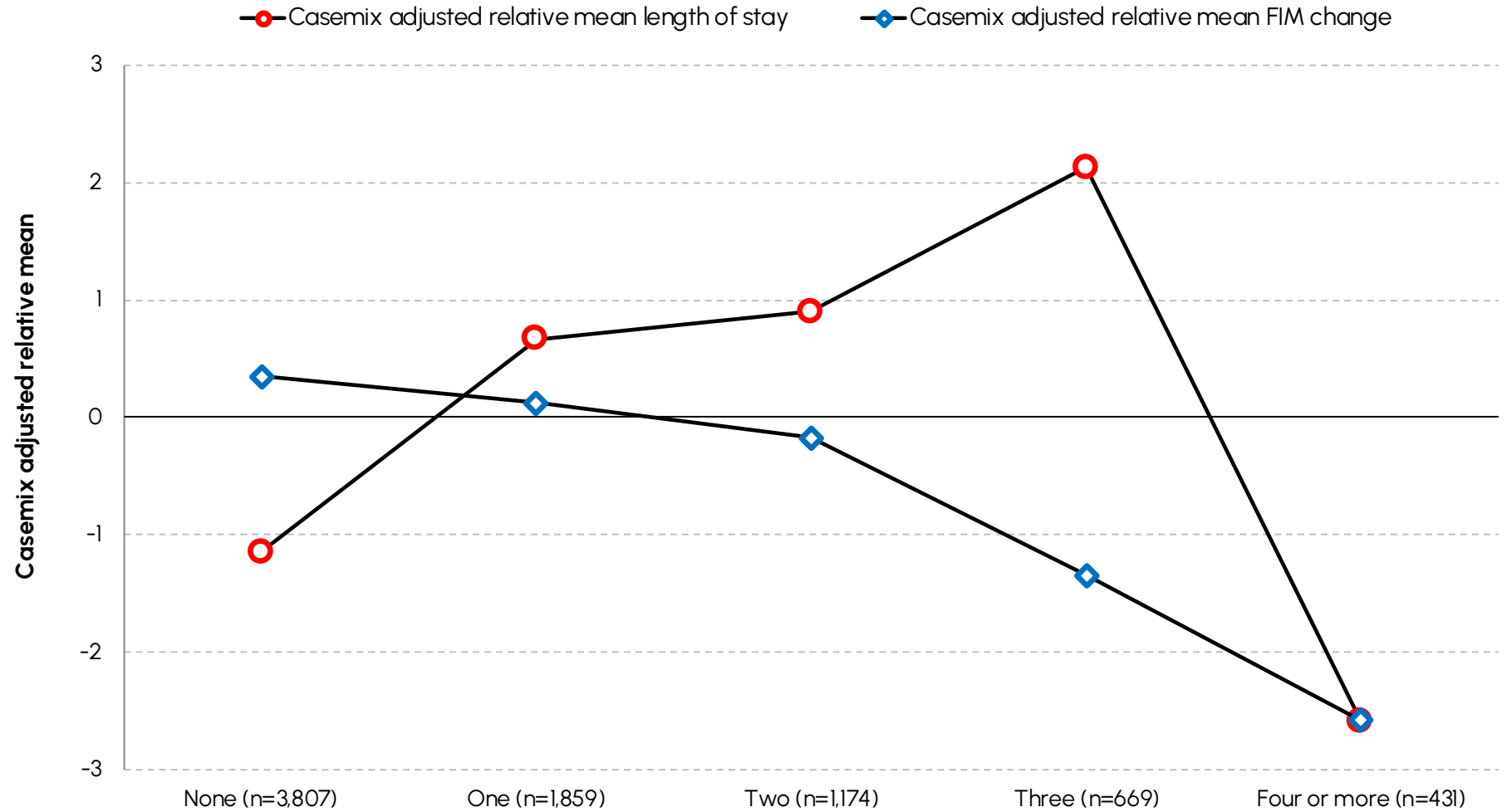
Casemix-adjusted relative mean length of stay and FIM change by number of comorbidities



Number of comorbidities — YOUR FACILITY

NOTE: Includes only completed episodes with valid FIM scores and LOS; where n<5 the casemix-adjusted relative mean will not be shown

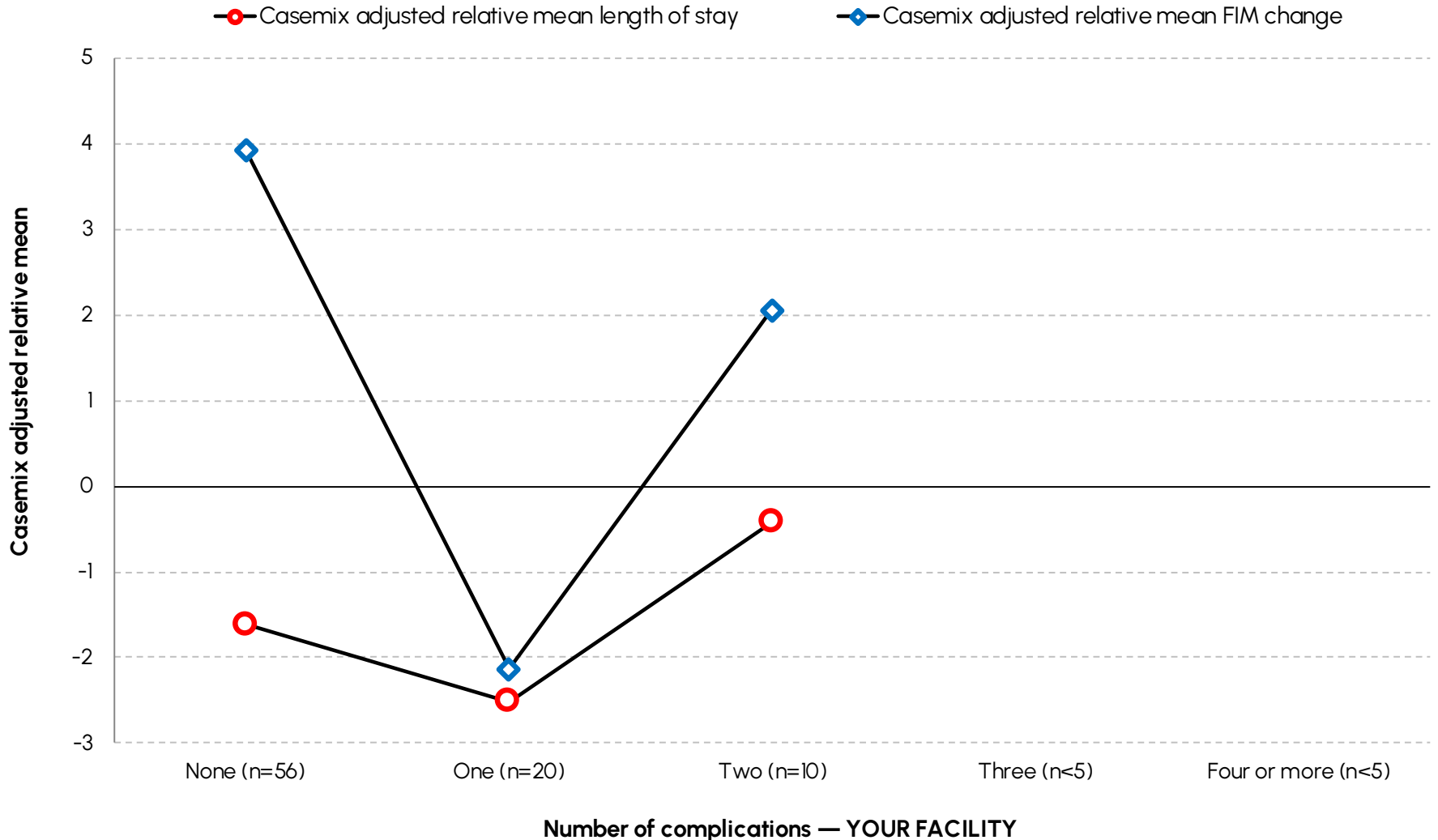
Casemix-adjusted relative mean length of stay and FIM change by number of comorbidities



Number of comorbidities — AUSTRALIA

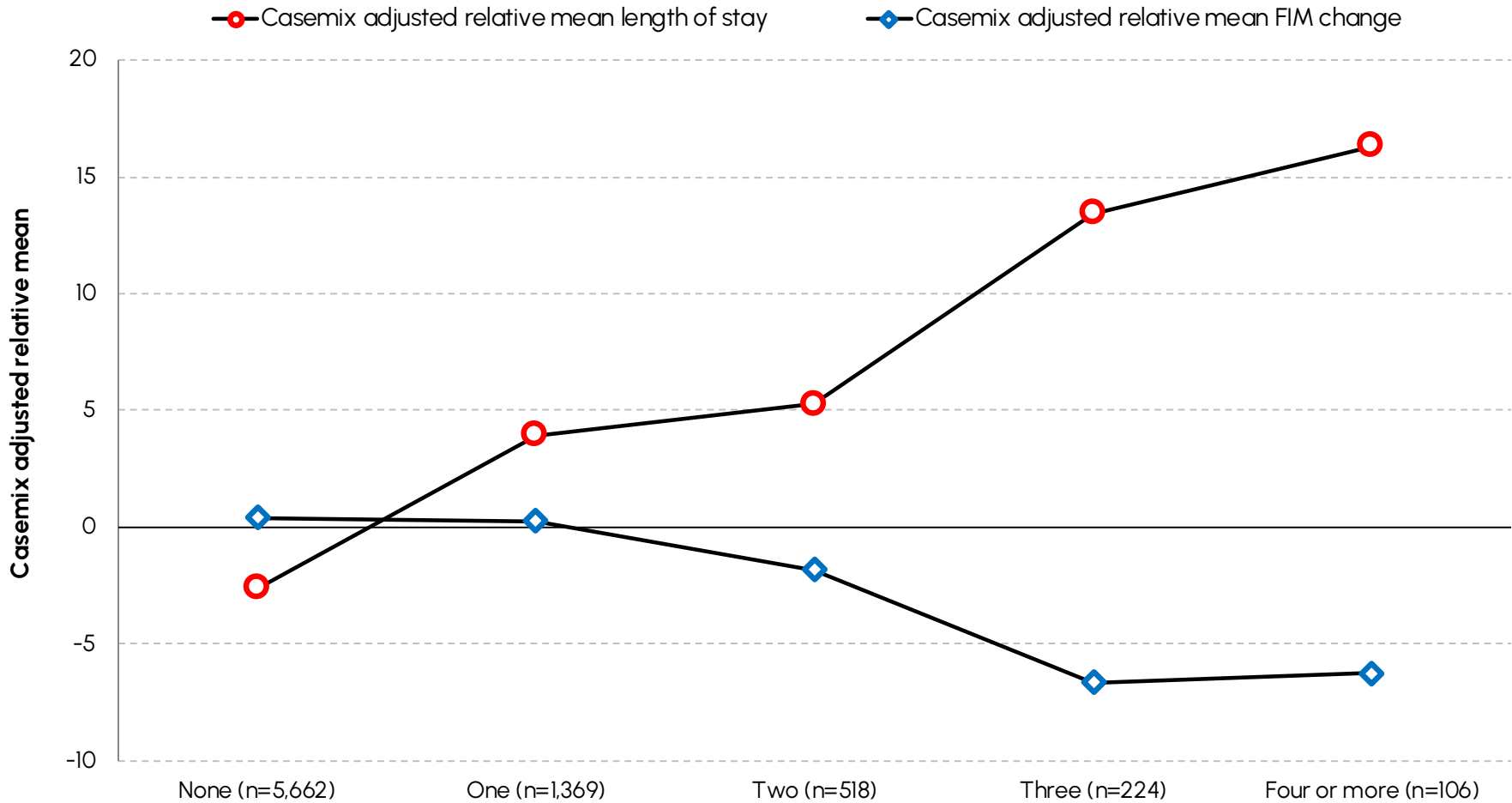
NOTE: Includes only completed episodes with valid FIM scores and LOS; where n<5 the casemix-adjusted relative mean will not be shown

Casemix-adjusted relative mean length of stay and FIM change by number of complications



NOTE: Includes only completed episodes with valid FIM scores and LOS; where n<5 the casemix-adjusted relative mean will not be shown

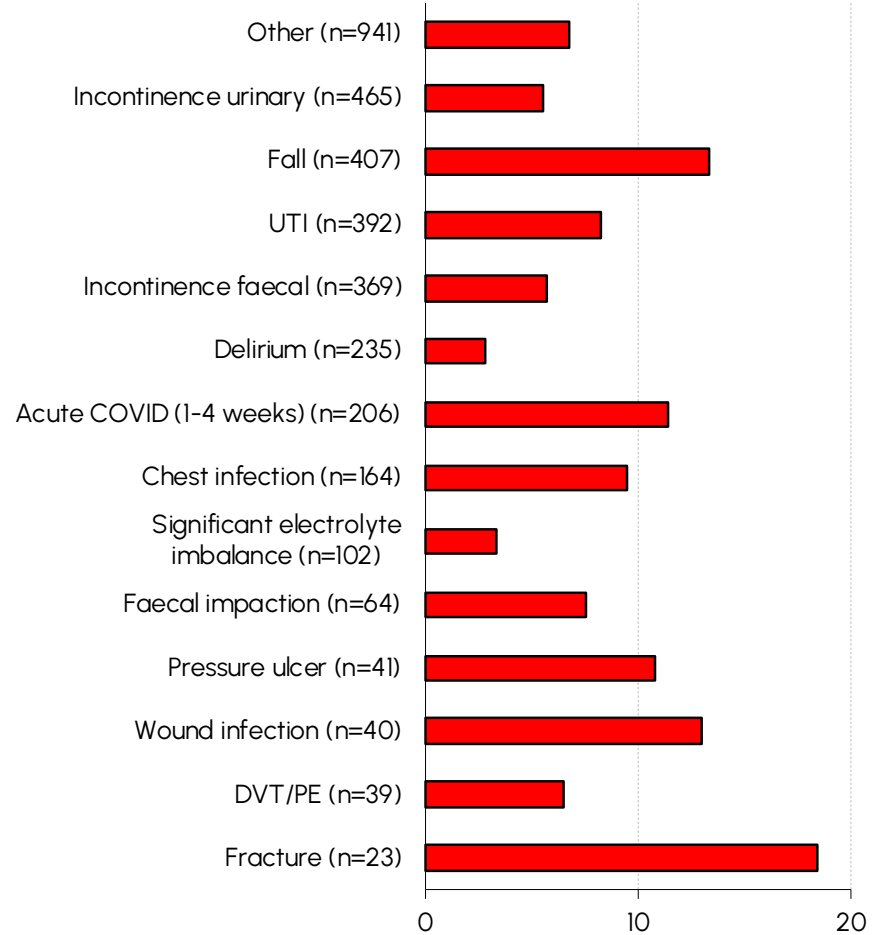
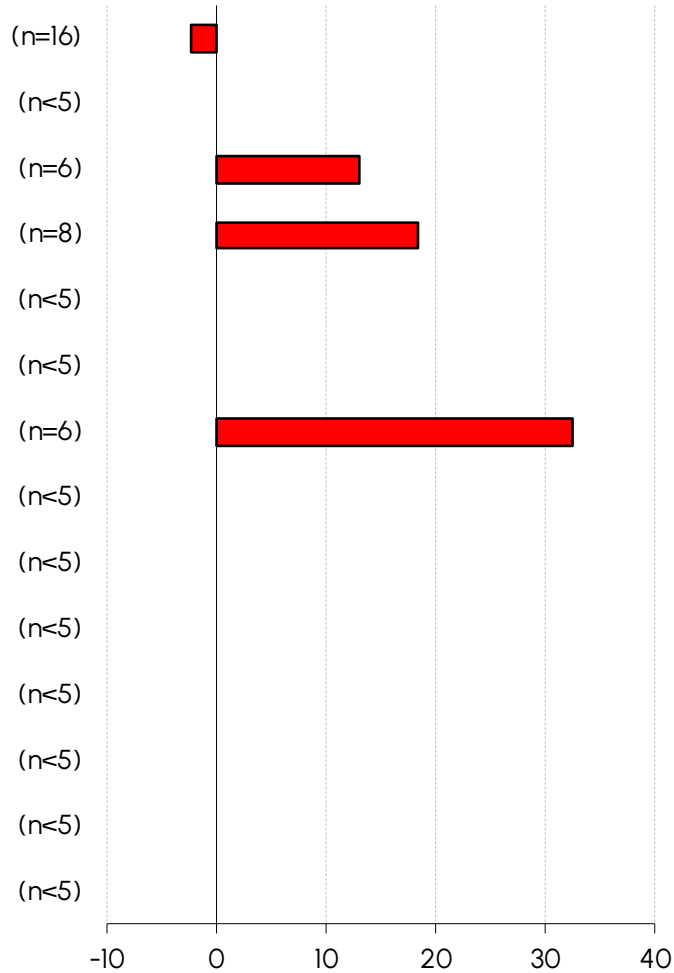
Casemix-adjusted relative mean length of stay and FIM change by number of complications



Number of complications — AUSTRALIA

NOTE: Includes only completed episodes with valid FIM scores and LOS; where n<5 the casemix-adjusted relative mean will not be shown

Casemix-adjusted relative mean length of stay by type of complication



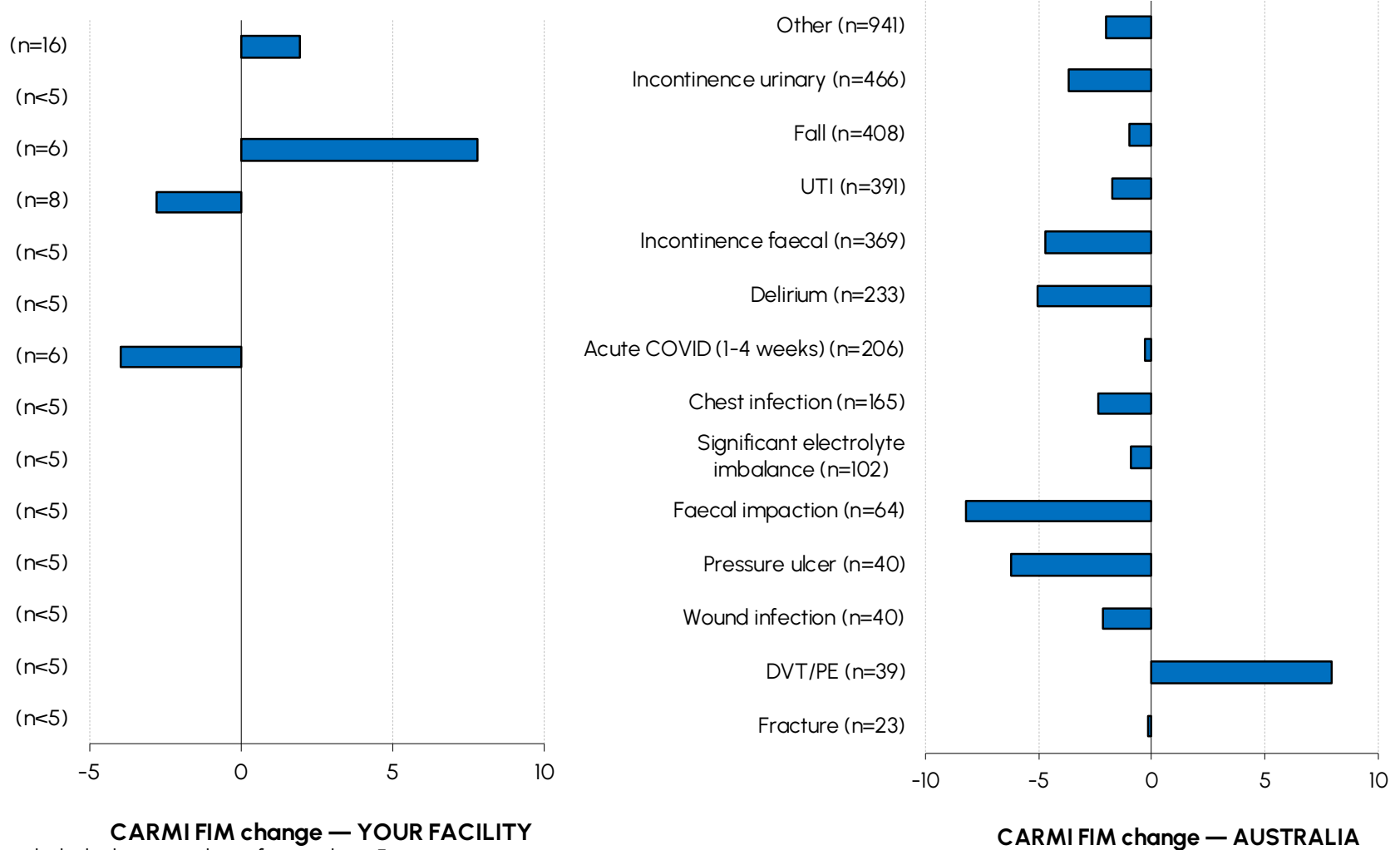
CARMILOS — YOUR FACILITY

* No data included where number of episodes <5

NOTE: Includes only completed episodes with valid LOS

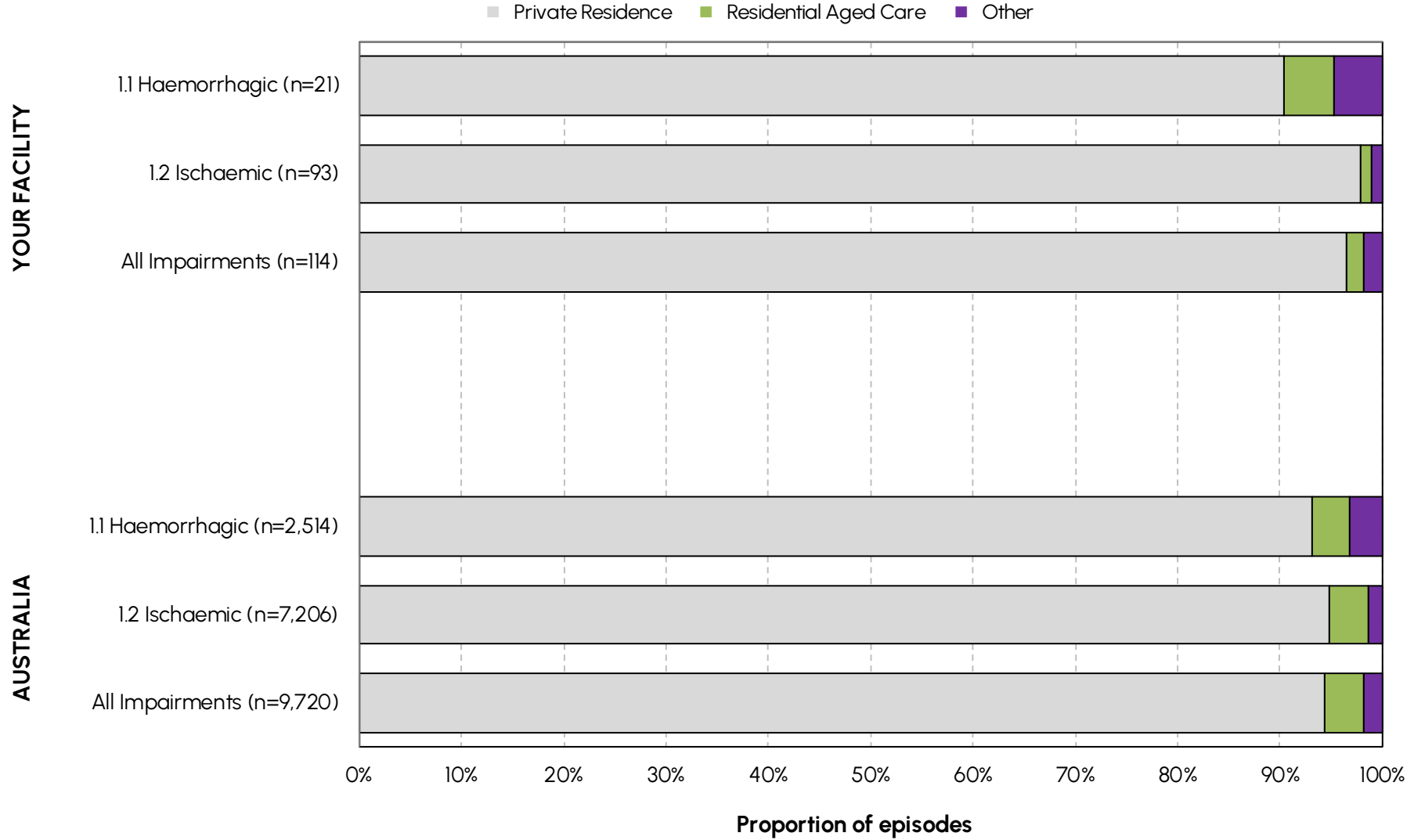
CARMILOS — AUSTRALIA

Casemix-adjusted relative mean FIM change by type of complication



* No data included where number of episodes <5
 NOTE: Includes only completed episodes with valid FIM scores

Type of accommodation prior to impairment

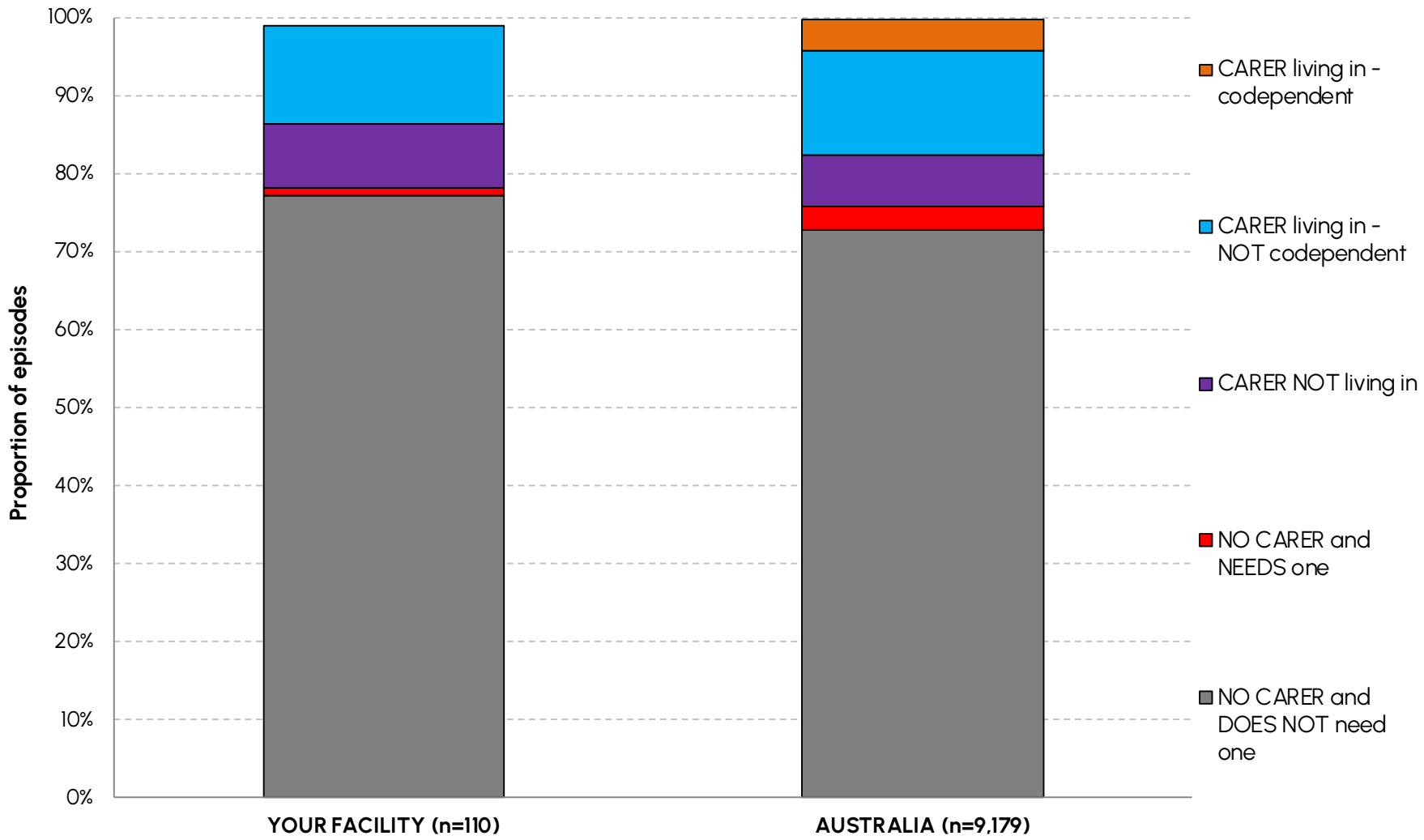


Type of accommodation prior to impairment

Impairment	YOUR FACILITY — N (%)				All episodes
	Private residence	Residential Aged Care	Other	Unknown	
1.1 Haemorrhagic	19 (90.5)	1 (4.8)	1 (4.8)	0	21 (100.0)
1.2 Ischaemic	91 (97.8)	1 (1.1)	1 (1.1)	0	93 (100.0)
All Stroke	110 (96.5)	2 (1.8)	2 (1.8)	0	114 (100.0)

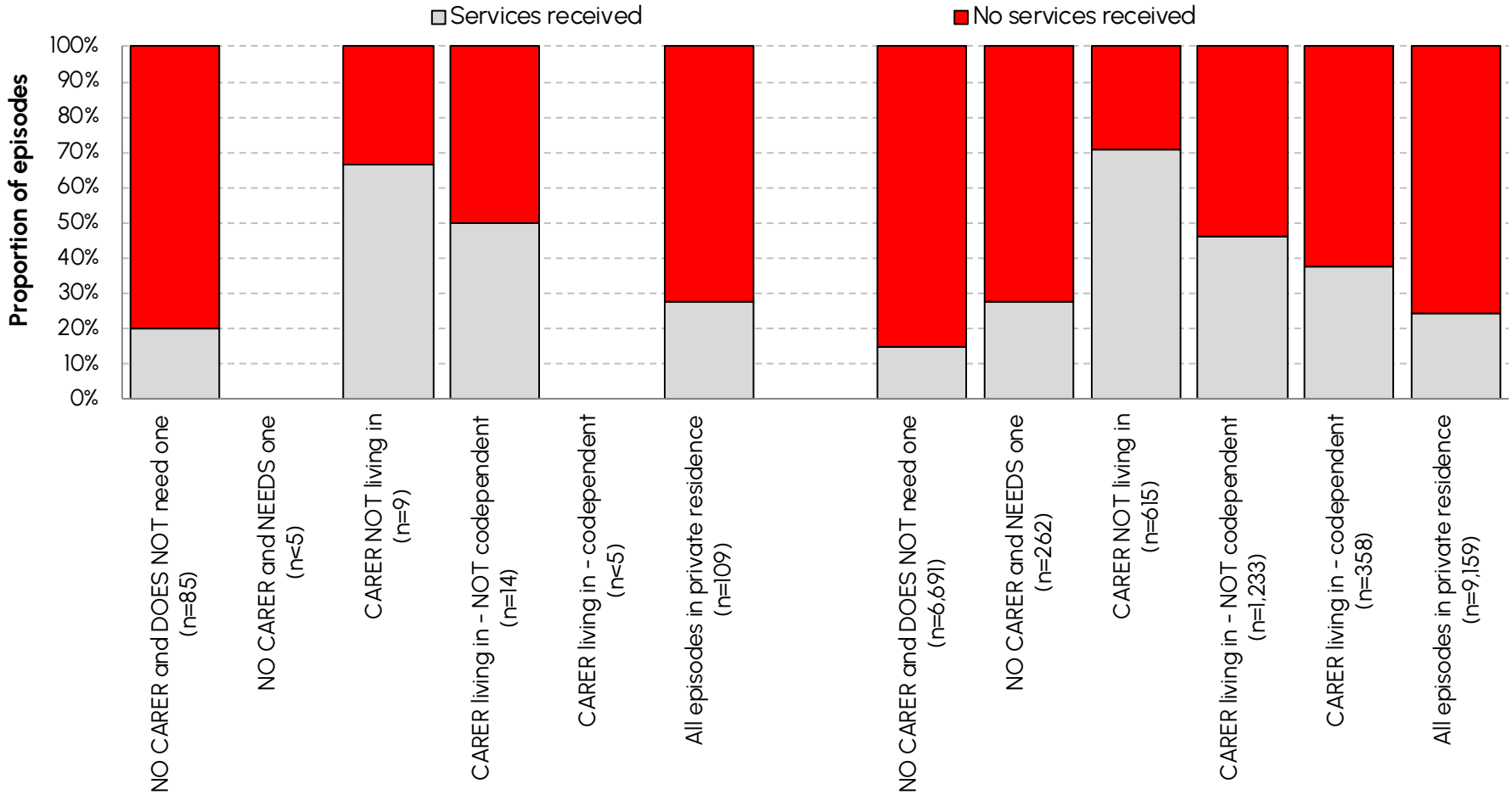
Impairment	AUSTRALIA — N (%)				All episodes
	Private residence	Residential Aged Care	Other	Unknown	
1.1 Haemorrhagic	2,344 (92.2)	89 (3.5)	81 (3.2)	28	2,542 (100.0)
1.2 Ischaemic	6,835 (92.3)	274 (3.7)	97 (1.3)	198	7,404 (100.0)
All Stroke	9,179 (92.3)	363 (3.6)	178 (1.8)	226	9,946 (100.0)

Carer status prior to impairment



NOTE: Includes only those episodes coming from private residence

Any services received prior to impairment by carer status



YOUR FACILITY (n=109)

AUSTRALIA (n=9,159)

NOTE: Includes only those episodes coming from private residence and with known carer status and known services status

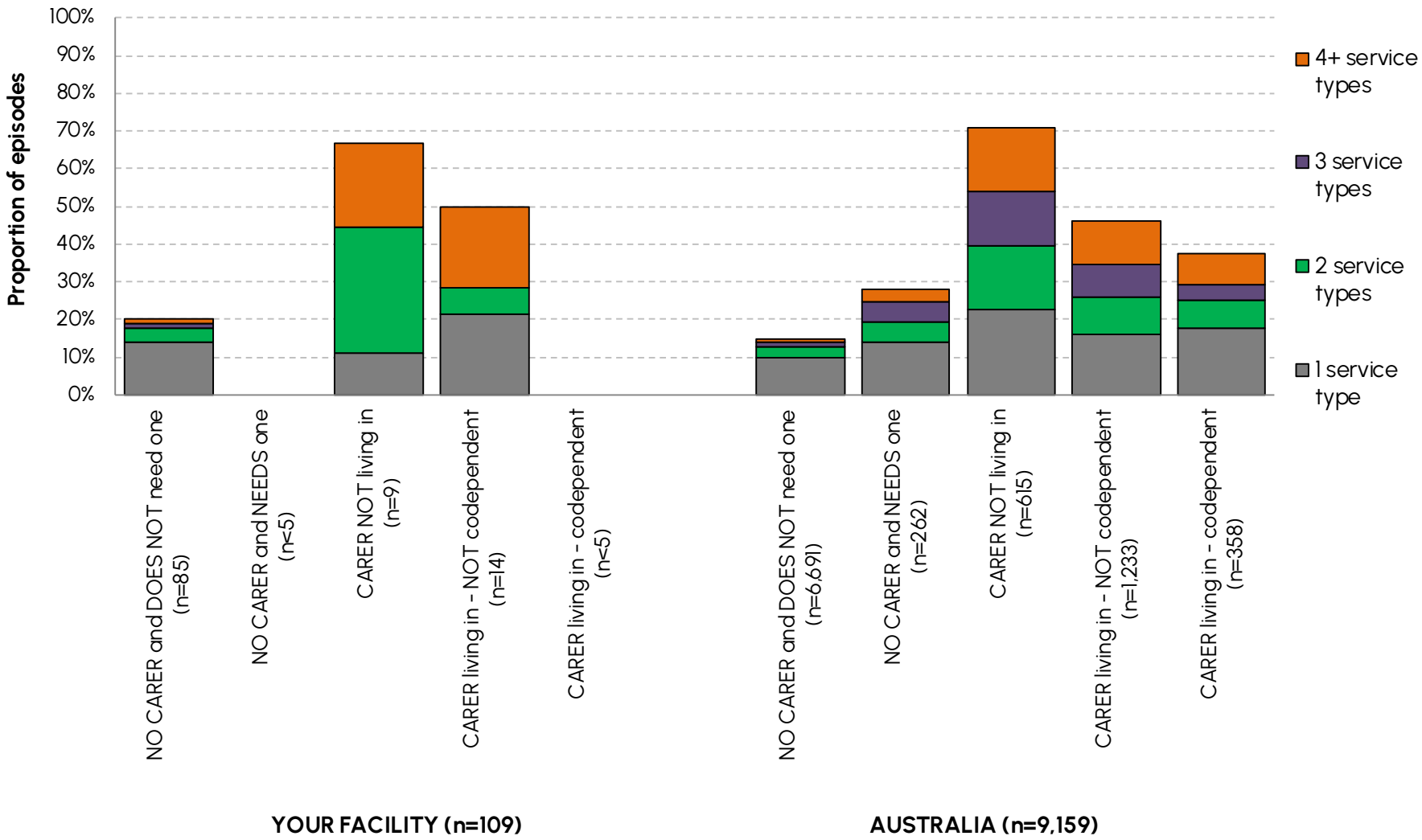
Carer status and any services received prior to impairment

Carer status prior to this impairment	YOUR FACILITY		AUSTRALIA	
	No.	%	No.	%
NO CARER and DOES NOT need one	85	78.0	6,692	73.1
NO CARER and NEEDS one	1	0.9	262	2.9
CARER NOT living in	9	8.3	615	6.7
CARER living in - NOT codependent	14	12.8	1,233	13.5
CARER living in - codependent	0	0.0	358	3.9
Missing	1		19	
All episodes in private residence	110	100.0	9,179	100.0

Any services received prior to this impairment?				
Carer status prior to this impairment	YOUR FACILITY		AUSTRALIA	
	Yes (%)	No (%)	Yes (%)	No (%)
NO CARER and DOES NOT need one	20.0	80.0	14.9	85.1
NO CARER and NEEDS one	—	—	27.9	72.1
CARER NOT living in	66.7	33.3	70.9	29.1
CARER living in - NOT codependent	50.0	50.0	46.1	53.9
CARER living in - codependent	—	—	37.4	62.6
All episodes in private residence	27.5	72.5	24.2	75.8

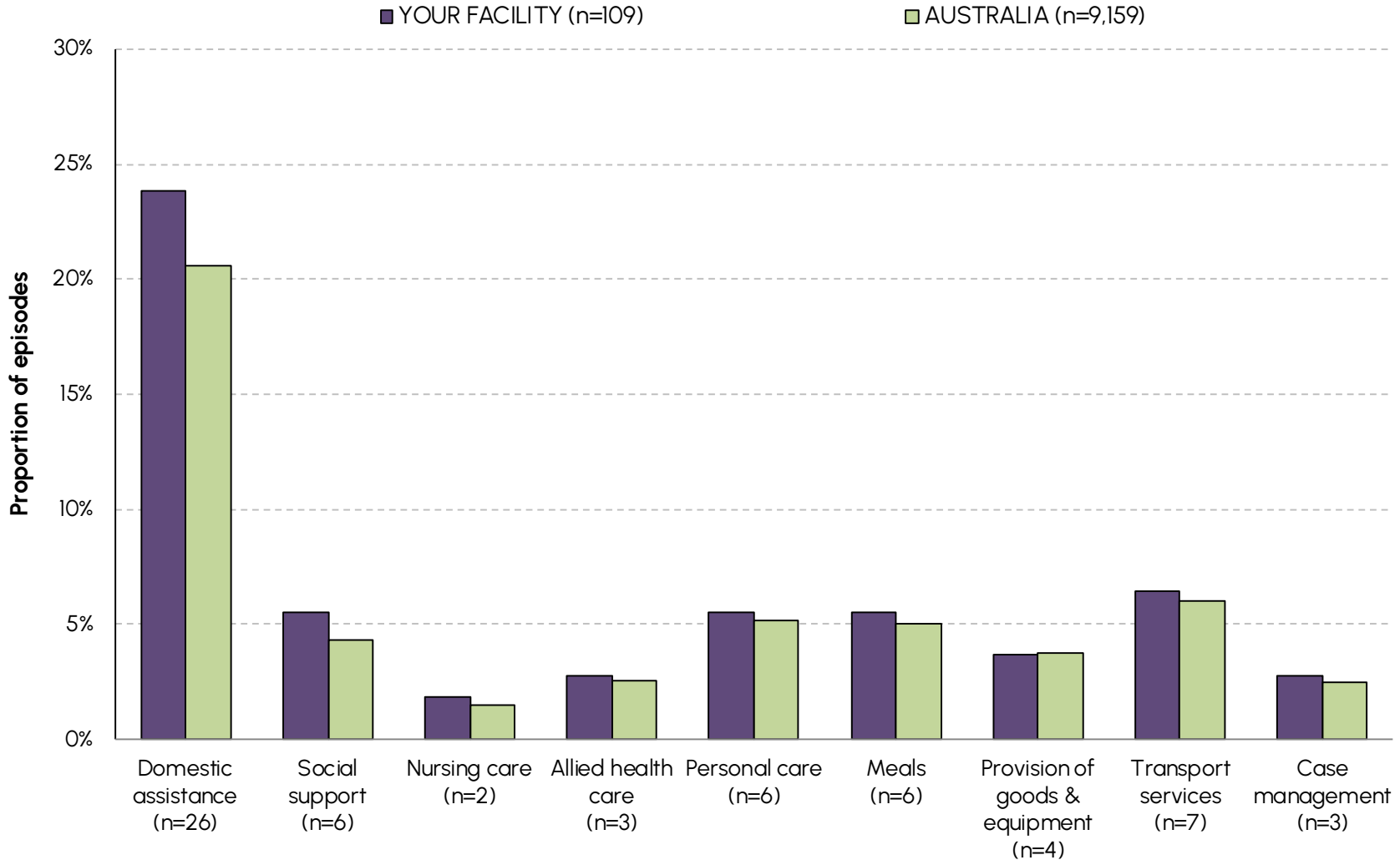
NOTE: Includes only those episodes coming from private residence and with known carer status

Number of services received prior to impairment by carer status



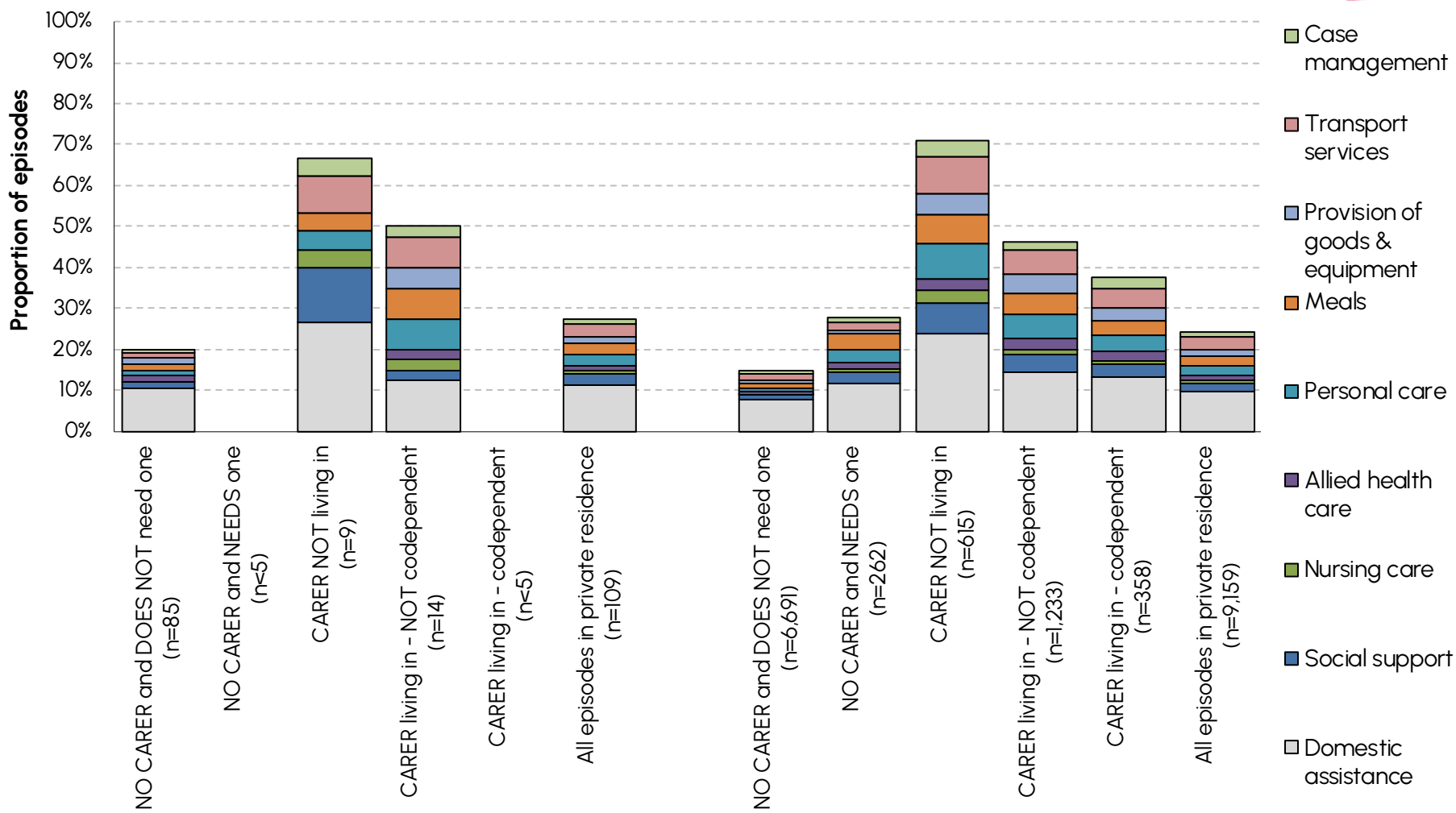
NOTE: Includes only those episodes coming from private residence and with known carer status and known services status

Type of services received prior to impairment



NOTE: includes only those episodes coming from private residence and with known carer status and known services status

Type of services received prior to impairment by carer status



YOUR FACILITY (n=109)

AUSTRALIA (n=9,159)

NOTE: Includes only those episodes coming from private residence and with known carer status and known services status

Number and type of services received prior to impairment by carer status

Services received prior to this impairment	Carer status prior to discharge - YOUR FACILITY						All episodes in private residence
	NO CARER and DOES NOT need one	NO CARER and NEEDS one	CARER NOT living in	CARER living in - NOT codependent	CARER living in - codependent		
Number of episodes in private residence	85	1	9	14	0	109	
Percent of episodes receiving:							
No services	80.0	100.0	33.3	50.0	—	72.5	
1 service type	14.1	0.0	11.1	21.4	—	14.7	
2 service types	3.5	0.0	33.3	7.1	—	6.4	
3 service types	1.2	0.0	0.0	0.0	—	0.9	
4 or more service types	1.2	0.0	22.2	21.4	—	5.5	
Service Type received							
Domestic assistance	17.6	0.0	66.7	35.7	—	23.9	
Social support	2.4	0.0	33.3	7.1	—	5.5	
Nursing care	0.0	0.0	11.1	7.1	—	1.8	
Allied health care	2.4	0.0	0.0	7.1	—	2.8	
Personal care	2.4	0.0	11.1	21.4	—	5.5	
Meals	2.4	0.0	11.1	21.4	—	5.5	
Provision of goods & equipment	2.4	0.0	0.0	14.3	—	3.7	
Transport services	2.4	0.0	22.2	21.4	—	6.4	
Case management	1.2	0.0	11.1	7.1	—	2.8	

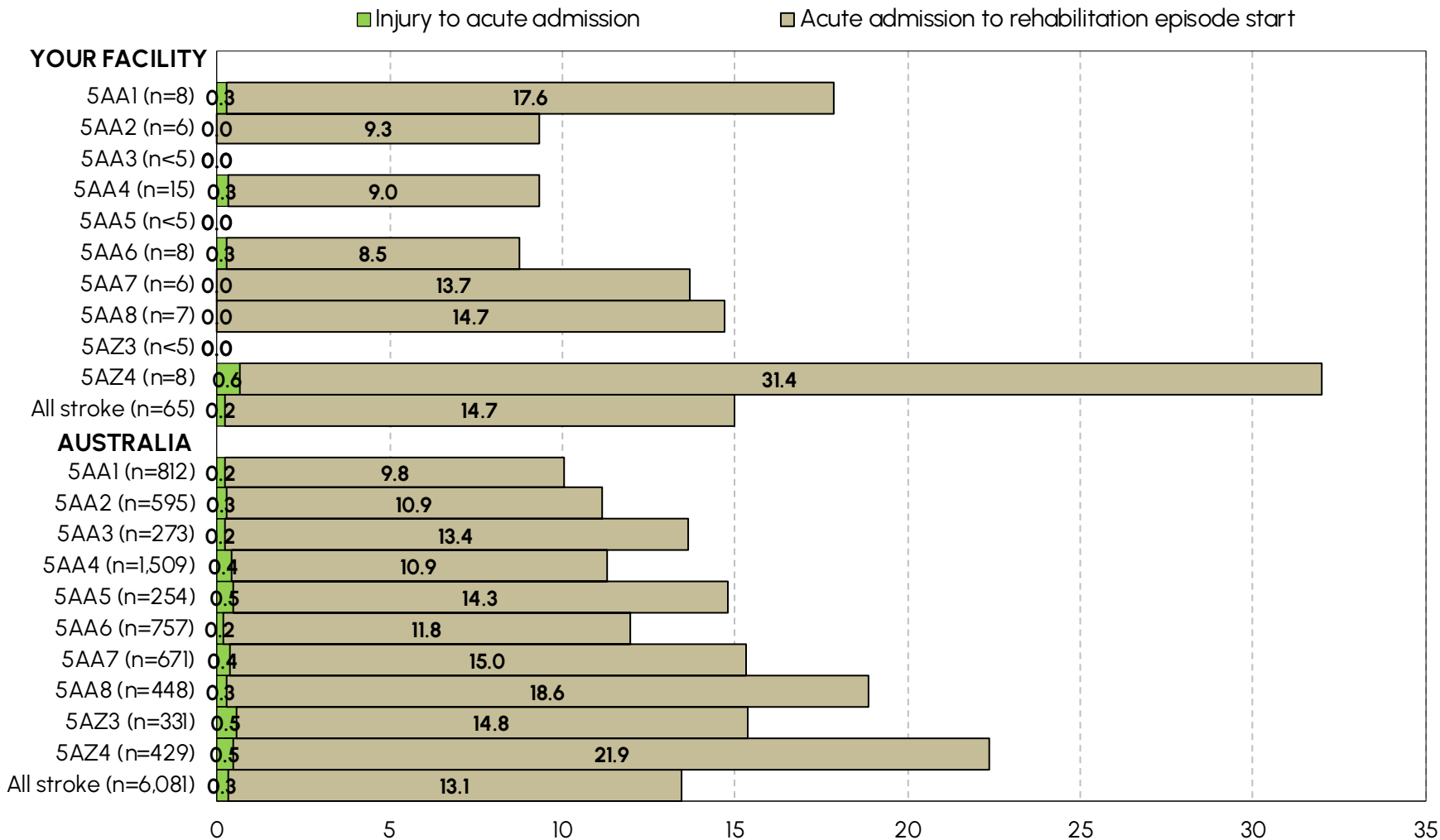
NOTE: Includes only those episodes coming from private residence and with known carer status and known services status.

Number and type of services received prior to impairment by carer status

Carer status prior to discharge - AUSTRALIA						
Services received prior to this impairment	NO CARER and DOES NOT need one	NO CARER and NEEDS one	CARER NOT living in	CARER living in - NOT codependent	CARER living in - codependent	All episodes in private residence
Number of episodes in private residence	6,691	262	615	1,233	358	9,159
Percent of episodes receiving:						
No services	85.1	72.1	29.1	53.9	62.6	75.8
1 service type	9.6	14.1	22.8	16.0	17.6	11.8
2 service types	2.9	5.3	16.9	10.0	7.5	5.0
3 service types	1.4	5.3	14.1	8.6	4.2	3.5
4 or more service types	1.0	3.1	17.1	11.6	8.1	3.8
Service Type received						
Domestic assistance	13.0	24.4	62.3	37.5	30.2	20.6
Social support	1.3	5.0	19.8	11.5	7.3	4.3
Nursing care	0.5	2.3	7.3	3.4	1.7	1.5
Allied health care	1.1	3.1	7.5	7.4	4.7	2.6
Personal care	1.3	6.5	22.9	15.4	9.5	5.1
Meals	2.1	8.0	18.2	12.9	7.8	5.0
Provision of goods & equipment	1.3	1.5	13.5	12.0	6.7	3.8
Transport services	2.5	4.2	22.9	15.5	10.9	6.0
Case management	1.2	2.3	10.4	4.9	5.6	2.5

NOTE: Includes only those episodes coming from private residence and with known carer status and known services status.

Days from injury to episode start with an acute admission by AN-SNAP class



*No data provided when less than 5 episodes have dates

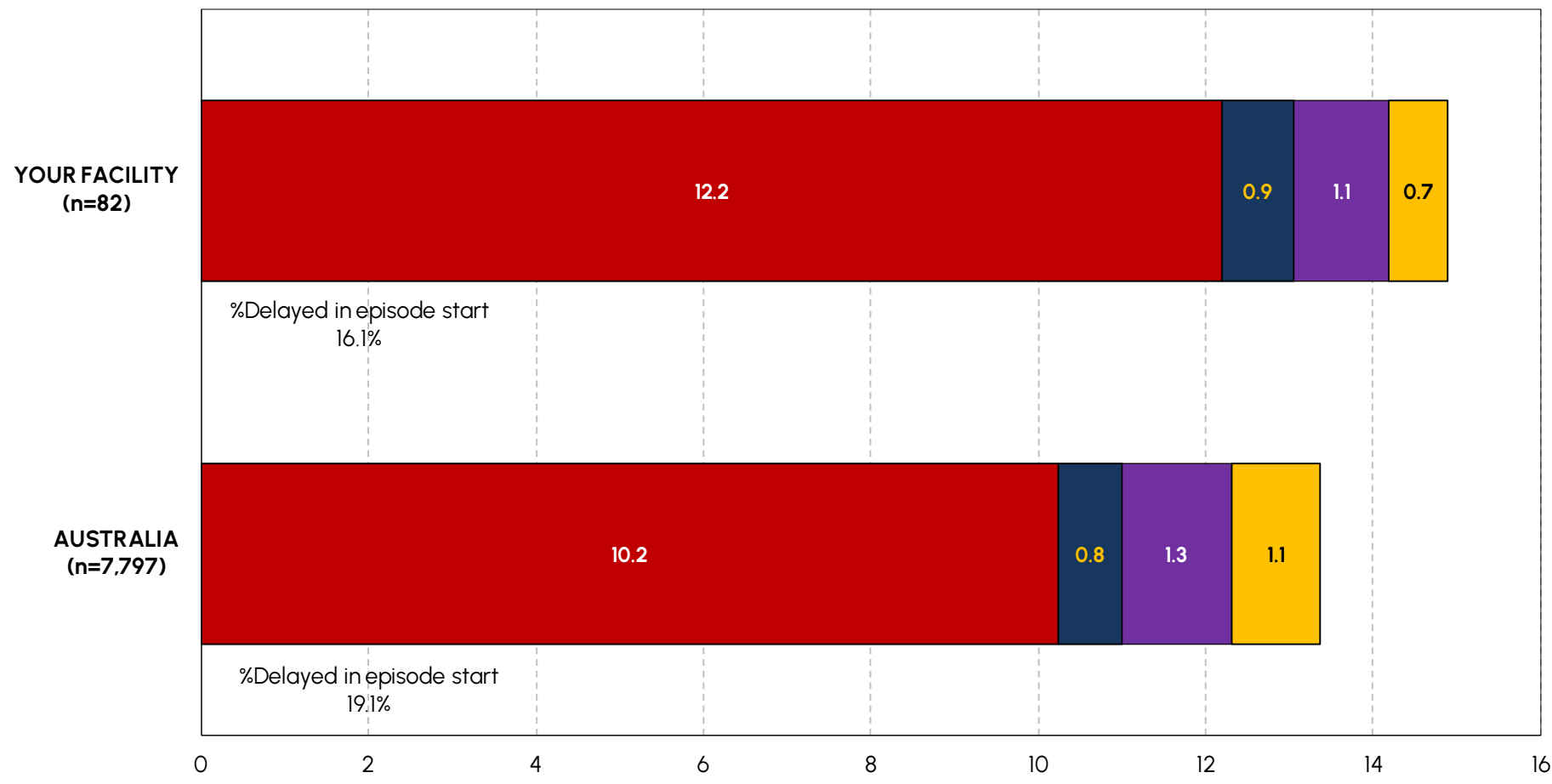
Mean number of days between dates

NOTE: Includes first admissions where all dates have been entered

Days from referral to rehabilitation episode start

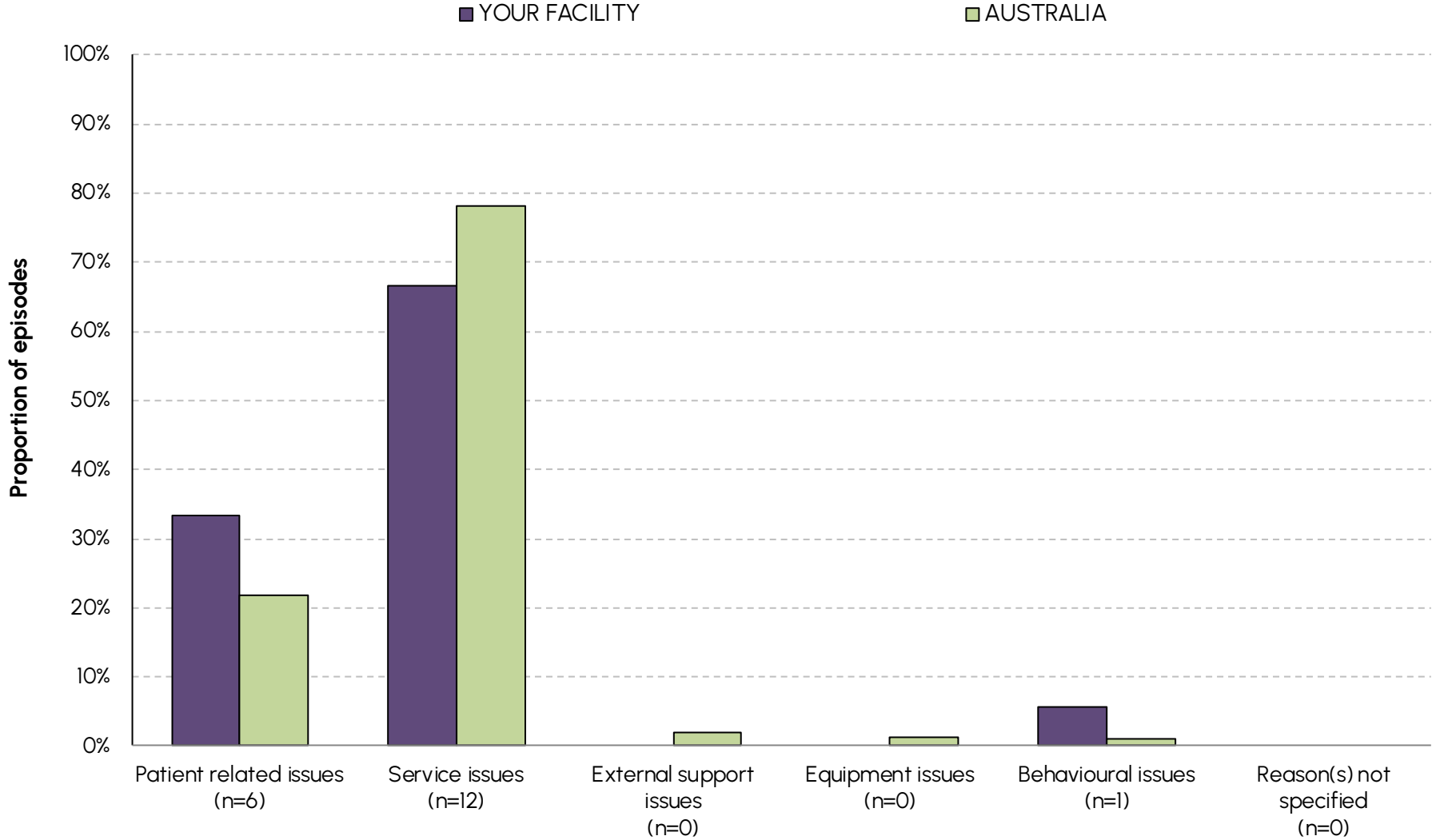


■ Injury to Referral
 ■ Referral to assessment
 ■ Assessment to clinically rehab ready
 ■ Clinically rehab ready to rehab episode start



*No data provided when less than 5 episodes have dates **Mean number of days between dates**
 NOTE: Includes first admissions where all dates have been entered

Type of delay in episode start



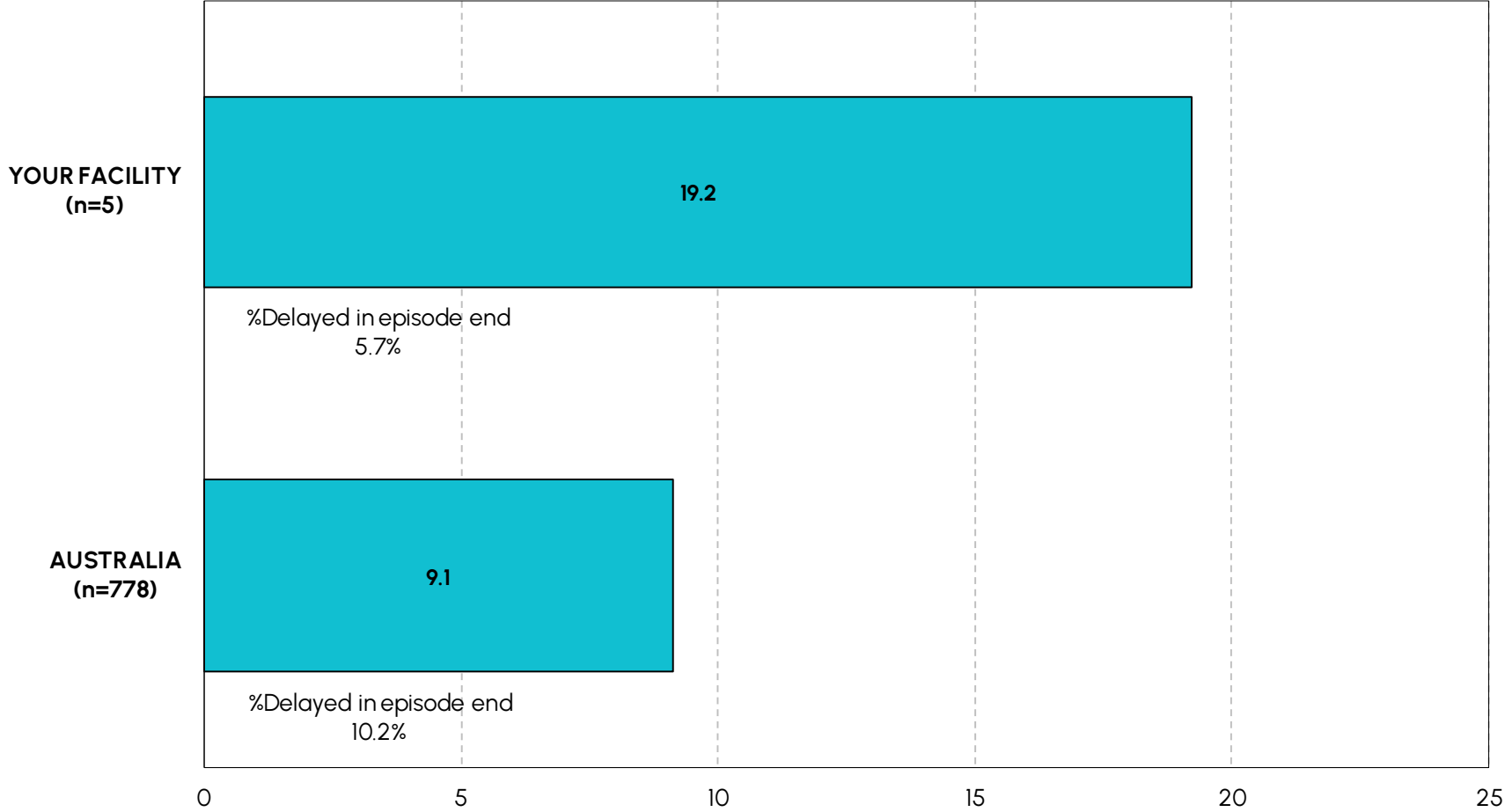
Delays in episode start

Delay in episode start	YOUR FACILITY		AUSTRALIA	
	No.	%	No.	%
No delay	94	83.9	7,774	80.9
Delay in episode start	18	16.1	1,838	19.1
Missing	2		334	
All episodes	114	100.0	9,946	100.0

Reasons for delay in episode start	YOUR FACILITY		AUSTRALIA	
	No.	%	No.	%
Patient related issues	6	33.3	402	21.9
Service issues	12	66.7	1,436	78.1
External support issues	0	0.0	36	2.0
Equipment issues	0	0.0	24	1.3
Behavioural issues	1	5.6	20	1.1
Reason(s) not specified	0	0.0	0	0.0

Days from clinically ready to discharge

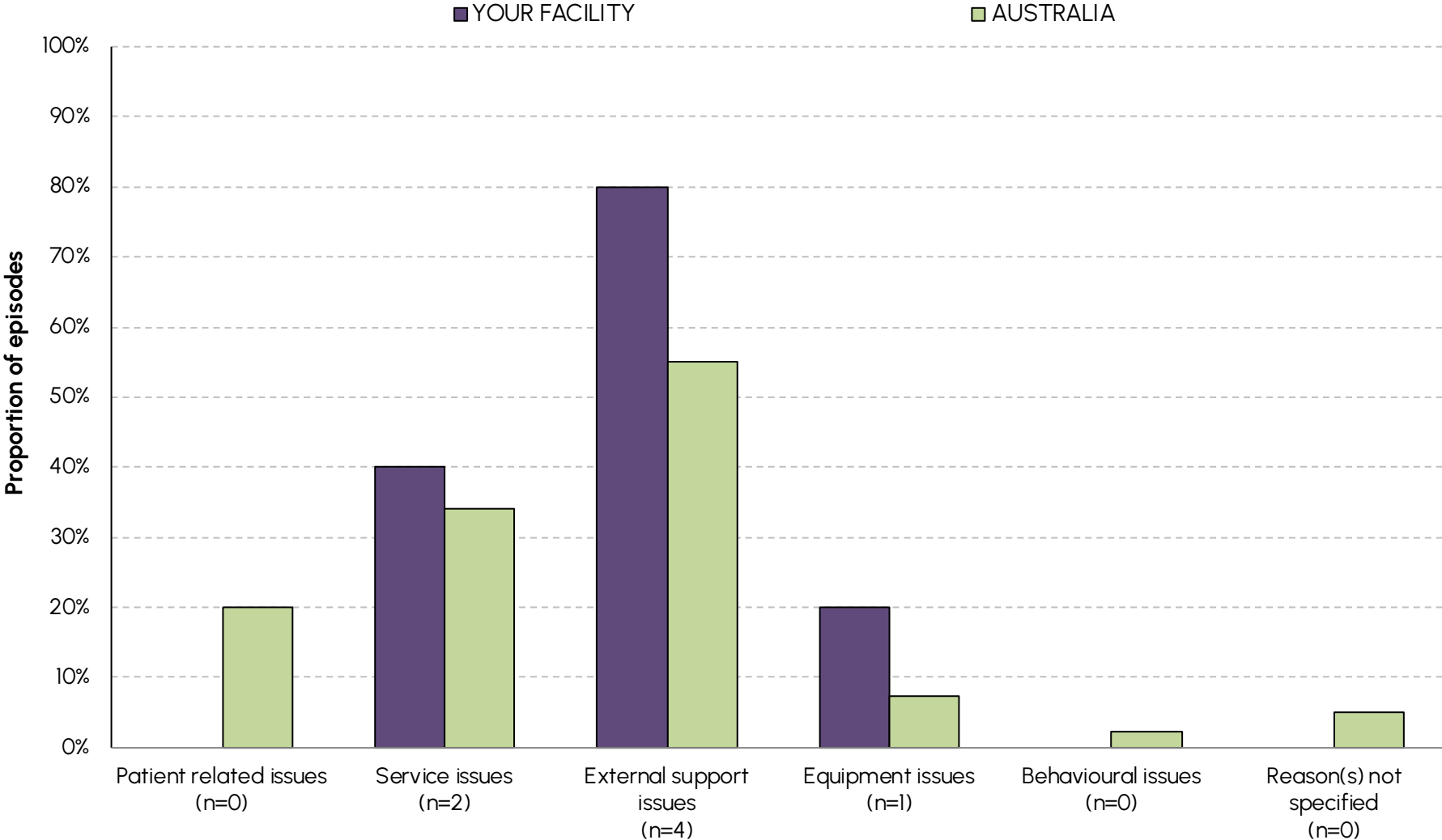
■ Community to episode end (where a delay was reported)



*No data provided when less than 5 episodes have dates
 NOTE: Includes completed episodes with a delay in discharge

Mean number of days between dates

Type of delay in episode end



NOTE: Includes completed episodes only

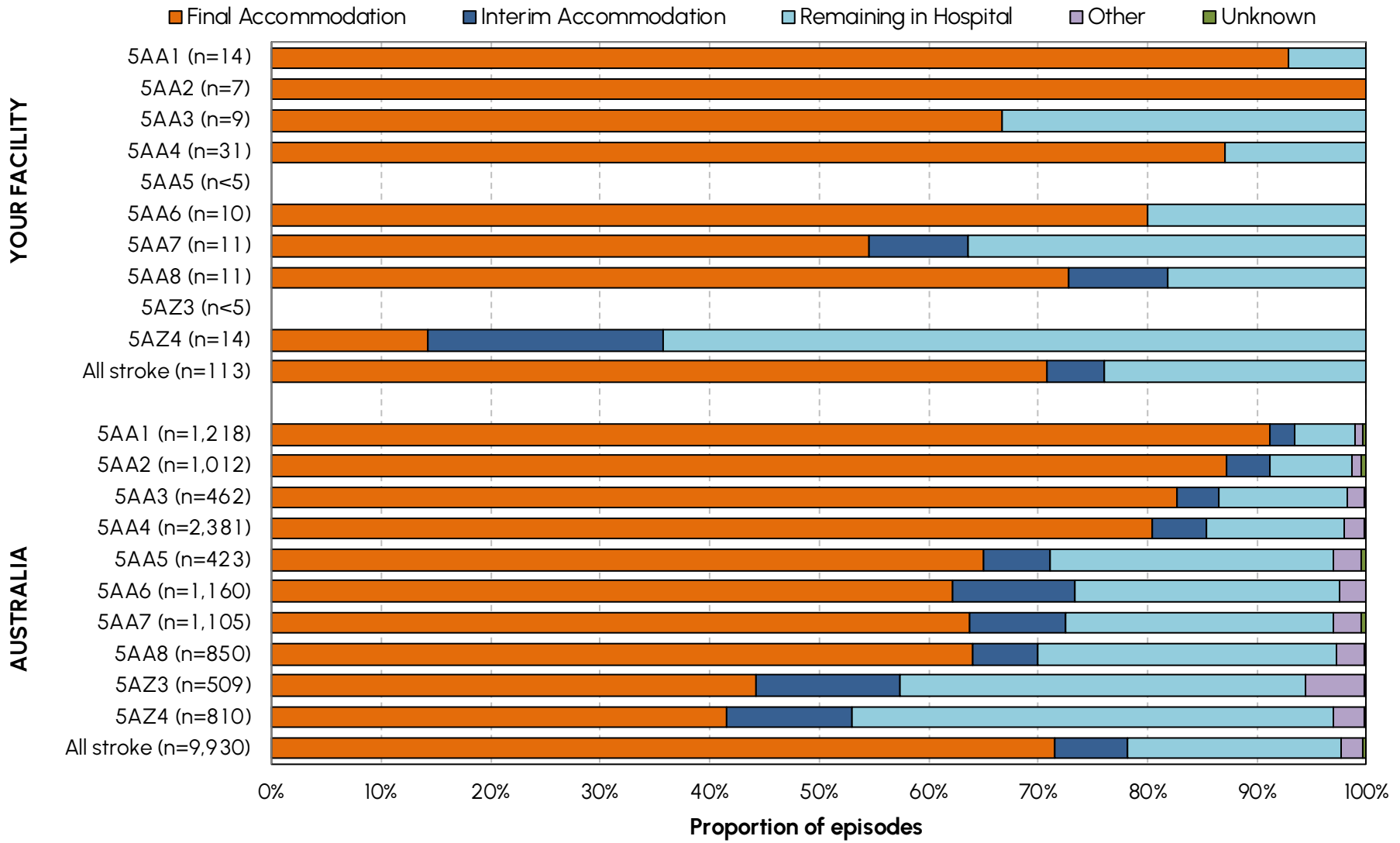
Delays in episode end

Delay in episode end	YOUR FACILITY		AUSTRALIA	
	No.	%	No.	%
No delay	83	94.3	6,990	89.8
Delay in episode end	5	5.7	798	10.2
Missing	2		147	
All episodes	90	100.0	7,935	100.0

Reasons for delay in episode end	YOUR FACILITY		AUSTRALIA	
	No.	%	No.	%
Patient related issues	0	0.0	160	20.1
Service issues	2	40.0	271	34.0
External support issues	4	80.0	440	55.1
Equipment issues	1	20.0	58	7.3
Behavioural issues	0	0.0	18	2.3
Reason(s) not specified	0	0.0	40	5.0

NOTE: Includes completed episodes only.

Discharge destination by AN-SNAP class



Discharge destination by AN-SNAP class

AN-SNAP class V5	YOUR FACILITY — N					AUSTRALIA — N				
	Final Accom	Interim Accom	Remaining in Hospital	Other	Unknown	Final Accom	Interim Accom	Remaining in Hospital	Other	Unknown
5AA1 (motor 63-91, cognition 30-35)	13	0	1	0	0	1,111	27	68	8	4
5AA2 (motor 63-91, cognition 21-29)	7	0	0	0	0	882	41	76	8	5
5AA3 (motor 63-91, cognition 5-20)	6	0	3	0	0	382	18	54	7	1
5AA4 (motor 44-62, cognition 18-35)	27	0	4	0	0	1,914	118	302	43	4
5AA5 (motor 44-62, cognition 5-17)	3	0	1	0	0	275	26	109	11	2
5AA6 (motor 19-43, Age ≥ 80)	8	0	2	0	0	721	130	281	27	1
5AA7 (motor 19-43, Age 67-79)	6	1	4	0	0	704	97	270	29	5
5AA8 (motor 19-43, Age ≤ 66)	8	1	2	0	0	544	51	232	21	2
5AZ3 (motor 13-18, Age ≥ 79)	0	1	1	0	0	225	67	189	27	1
5AZ4 (motor 13-18, Age ≤ 78)	2	3	9	0	0	337	92	356	23	2
All Stroke AN-SNAP Classes	80	6	27	0	0	7,095	667	1,937	204	27

AN-SNAP class V5	YOUR FACILITY — %					AUSTRALIA — %				
	Final Accom	Interim Accom	Remaining in Hospital	Other	Unknown	Final Accom	Interim Accom	Remaining in Hospital	Other	Unknown
5AA1 (motor 63-91, cognition 30-35)	92.9	0.0	7.1	0.0	0.0	91.2	2.2	5.6	0.7	0.3
5AA2 (motor 63-91, cognition 21-29)	100.0	0.0	0.0	0.0	0.0	87.2	4.1	7.5	0.8	0.5
5AA3 (motor 63-91, cognition 5-20)	66.7	0.0	33.3	0.0	0.0	82.7	3.9	11.7	1.5	0.2
5AA4 (motor 44-62, cognition 18-35)	87.1	0.0	12.9	0.0	0.0	80.4	5.0	12.7	1.8	0.2
5AA5 (motor 44-62, cognition 5-17)	75.0	0.0	25.0	0.0	0.0	65.0	6.1	25.8	2.6	0.5
5AA6 (motor 19-43, Age ≥ 80)	80.0	0.0	20.0	0.0	0.0	62.2	11.2	24.2	2.3	0.1
5AA7 (motor 19-43, Age 67-79)	54.5	9.1	36.4	0.0	0.0	63.7	8.8	24.4	2.6	0.5
5AA8 (motor 19-43, Age ≤ 66)	72.7	9.1	18.2	0.0	0.0	64.0	6.0	27.3	2.5	0.2
5AZ3 (motor 13-18, Age ≥ 79)	0.0	50.0	50.0	0.0	0.0	44.2	13.2	37.1	5.3	0.2
5AZ4 (motor 13-18, Age ≤ 78)	14.3	21.4	64.3	0.0	0.0	41.6	11.4	44.0	2.8	0.2
All Stroke AN-SNAP Classes	70.8	5.3	23.9	0.0	0.0	71.5	6.7	19.5	2.1	0.3

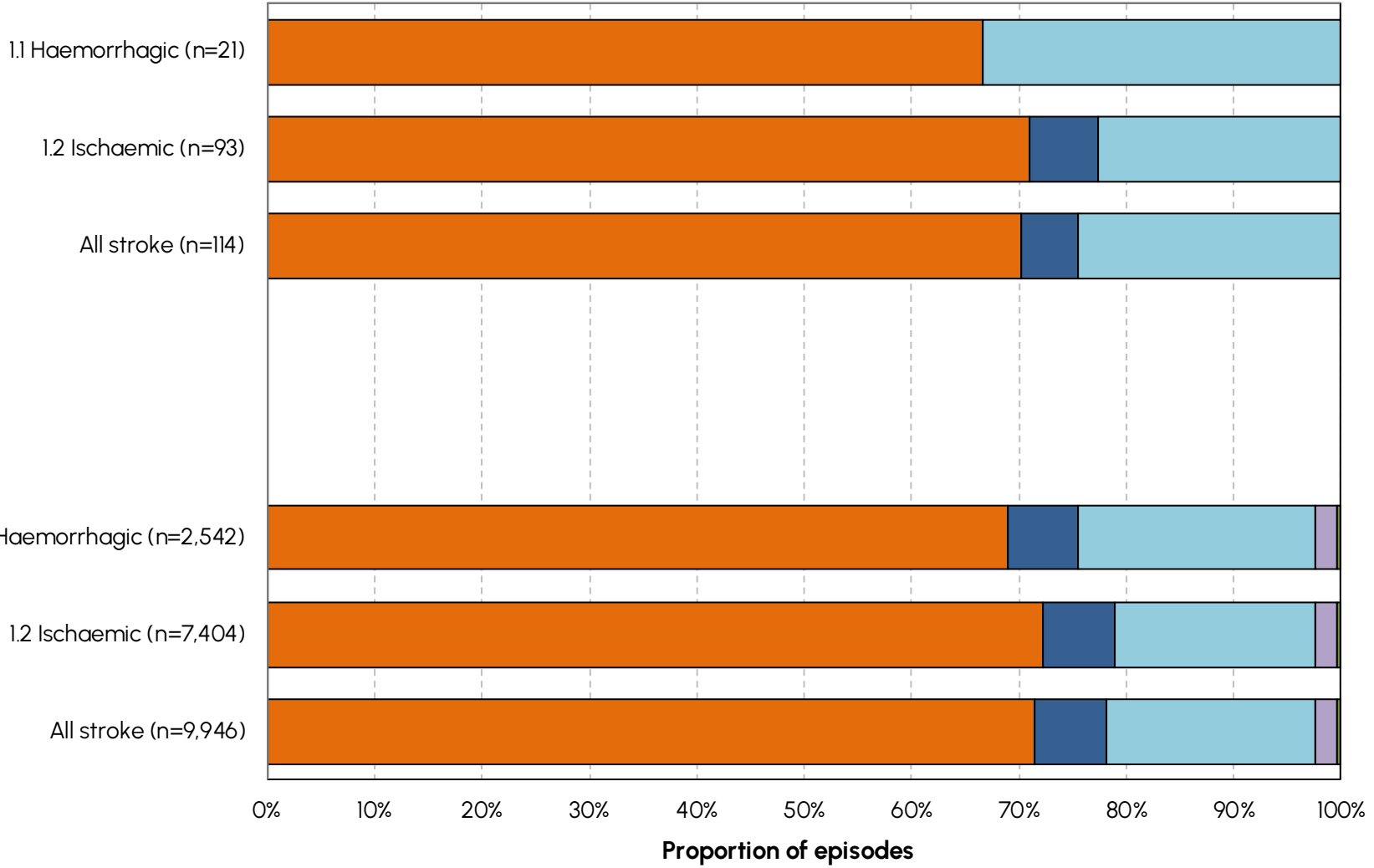
Discharge destination by impairment code



■ Final Accommodation
 ■ Interim Accommodation
 ■ Remaining in Hospital
 ■ Other
 ■ Unknown

YOUR FACILITY

AUSTRALIA

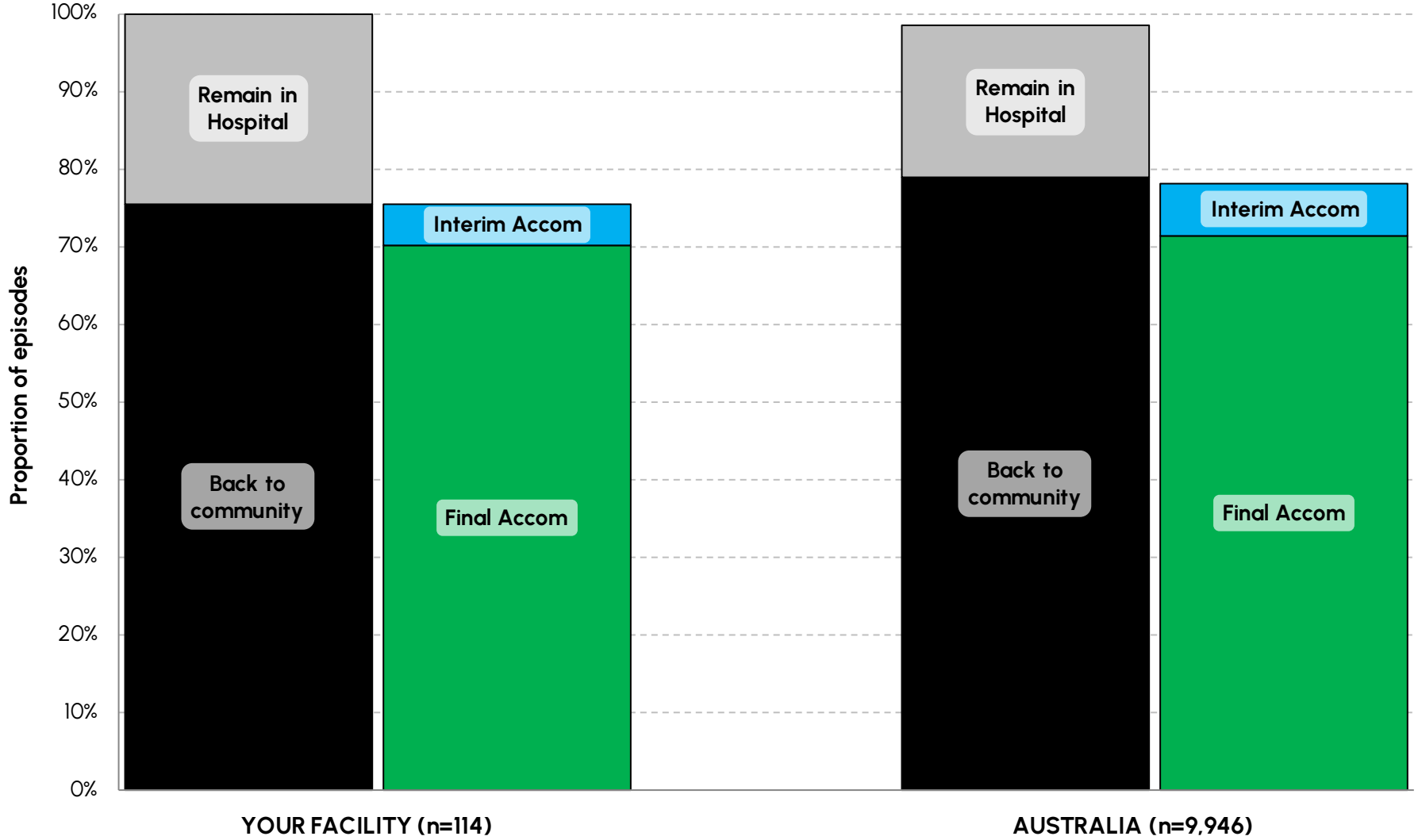


Discharge destination by impairment

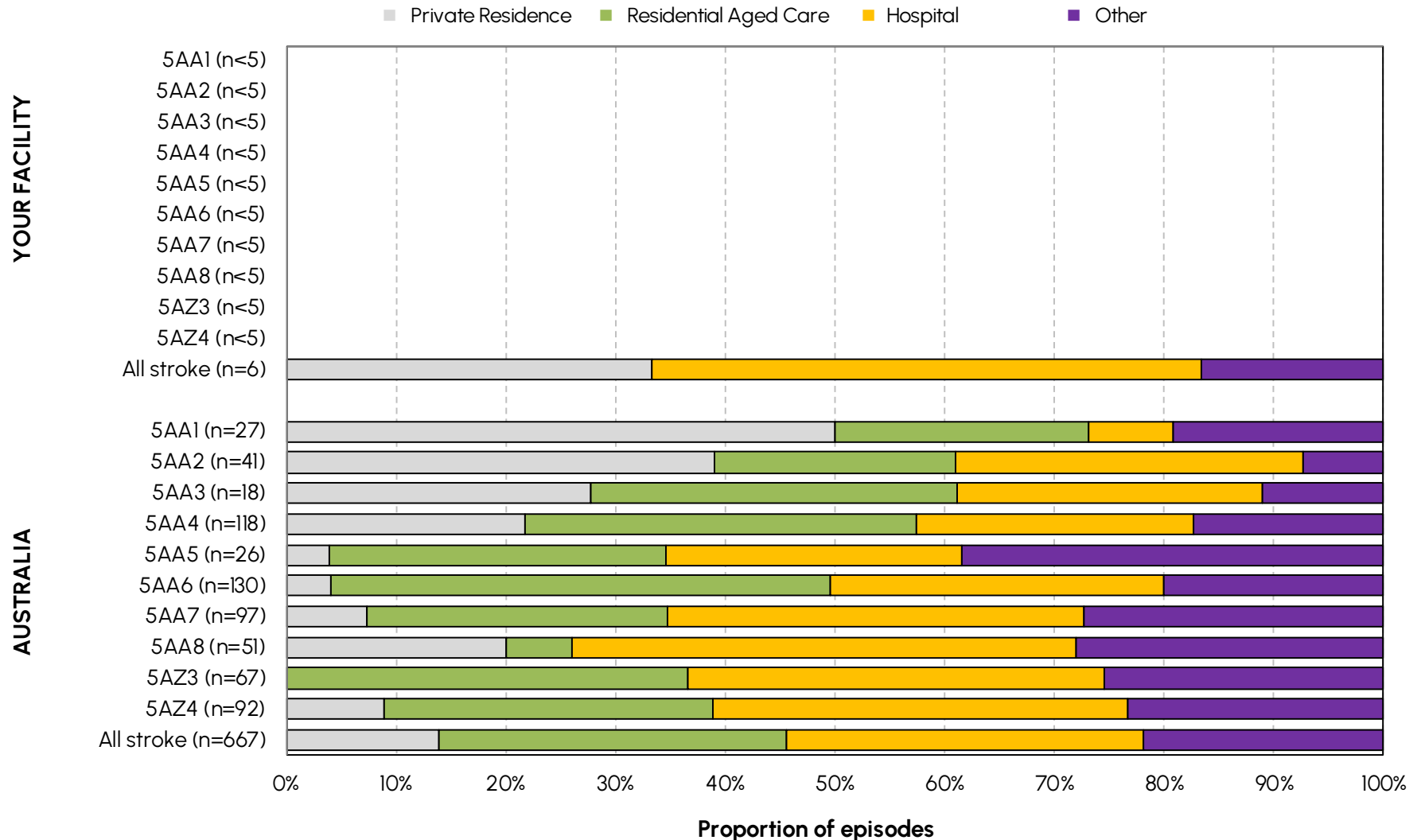
Impairment	YOUR FACILITY — N					AUSTRALIA — N				
	Final Accom	Interim Accom	Remaining in Hospital	Other	Unknown	Final Accom	Interim Accom	Remaining in Hospital	Other	Unknown
1.1 Haemorrhagic	14	0	7	0	0	1,753	168	561	52	8
1.2 Ischaemic	66	6	21	0	0	5,348	500	1,378	152	26
All Stroke	80	6	28	0	0	7,101	668	1,939	204	34

Impairment	YOUR FACILITY — %					AUSTRALIA — %				
	Final Accom	Interim Accom	Remaining in Hospital	Other	Unknown	Final Accom	Interim Accom	Remaining in Hospital	Other	Unknown
1.1 Haemorrhagic	66.7	0.0	33.3	0.0	0.0	69.0	6.6	22.1	2.0	0.3
1.2 Ischaemic	71.0	6.5	22.6	0.0	0.0	72.2	6.8	18.6	2.1	0.4
All Stroke	70.2	5.3	24.6	0.0	0.0	71.4	6.7	19.5	2.1	0.3

Discharge destination



Interim accommodation post discharge by AN-SNAP class



NOTE: Includes only those episodes with mode of episode end equal to interim accommodation

Interim accommodation post discharge by AN-SNAP class

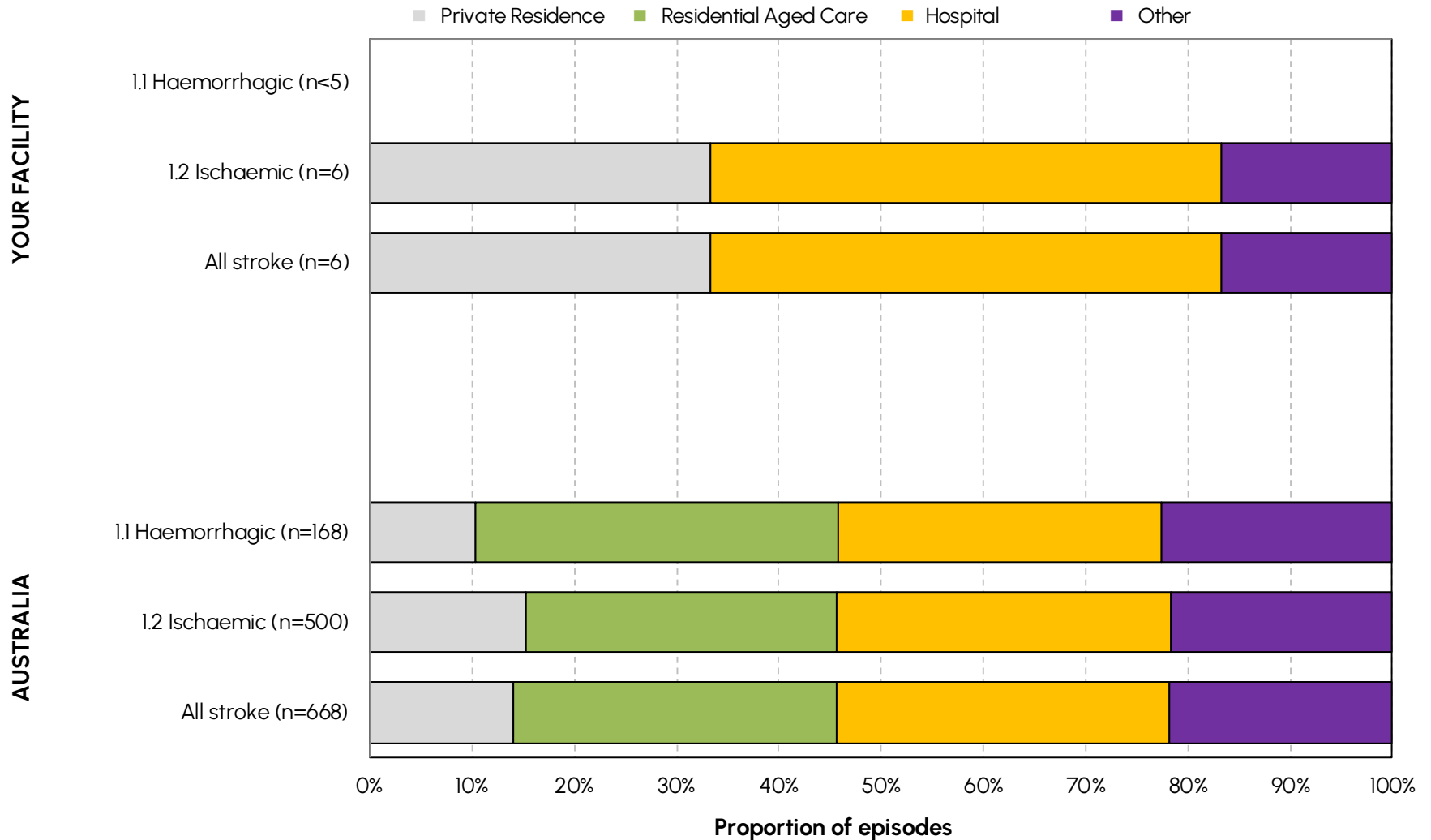
AN-SNAP class V5	YOUR FACILITY — N (%)				
	Private residence	Care	Hospital	Other	All episodes**
5AA1 (motor 63-91, cognition 30-35)	0 —	0 —	0 —	0 —	0 —
5AA2 (motor 63-91, cognition 21-29)	0 —	0 —	0 —	0 —	0 —
5AA3 (motor 63-91, cognition 5-20)	0 —	0 —	0 —	0 —	0 —
5AA4 (motor 44-62, cognition 18-35)	0 —	0 —	0 —	0 —	0 —
5AA5 (motor 44-62, cognition 5-17)	0 —	0 —	0 —	0 —	0 —
5AA6 (motor 19-43, Age ≥ 80)	0 —	0 —	0 —	0 —	0 —
5AA7 (motor 19-43, Age 67-79)	0 (0.0)	0 (0.0)	1 (100.0)	0 (0.0)	1 (100.0)
5AA8 (motor 19-43, Age ≤ 66)	1 (100.0)	0 (0.0)	0 (0.0)	0 (0.0)	1 (100.0)
5AZ3 (motor 13-18, Age ≥ 79)	0 (0.0)	0 (0.0)	0 (0.0)	1 (100.0)	1 (100.0)
5AZ4 (motor 13-18, Age ≤ 78)	1 (33.3)	0 (0.0)	2 (66.7)	0 (0.0)	3 (100.0)
All Stroke AN-SNAP Classes	2 (33.3)	0 (0.0)	3 (50.0)	1 (16.7)	6 (100.0)

AN-SNAP class V5	AUSTRALIA — N (%)				
	Private residence	Care	Hospital	Other	All episodes**
5AA1 (motor 63-91, cognition 30-35)	13 (48.1)	6 (22.2)	2 (7.4)	5 (18.5)	27 (100.0)
5AA2 (motor 63-91, cognition 21-29)	16 (39.0)	9 (22.0)	13 (31.7)	3 (7.3)	41 (100.0)
5AA3 (motor 63-91, cognition 5-20)	5 (27.8)	6 (33.3)	5 (27.8)	2 (11.1)	18 (100.0)
5AA4 (motor 44-62, cognition 18-35)	25 (21.2)	41 (34.7)	29 (24.6)	20 (16.9)	118 (100.0)
5AA5 (motor 44-62, cognition 5-17)	1 (3.8)	8 (30.8)	7 (26.9)	10 (38.5)	26 (100.0)
5AA6 (motor 19-43, Age ≥ 80)	5 (3.8)	57 (43.8)	38 (29.2)	25 (19.2)	130 (100.0)
5AA7 (motor 19-43, Age 67-79)	7 (7.2)	26 (26.8)	36 (37.1)	26 (26.8)	97 (100.0)
5AA8 (motor 19-43, Age ≤ 66)	10 (19.6)	3 (5.9)	23 (45.1)	13 (25.5)	51 (100.0)
5AZ3 (motor 13-18, Age ≥ 79)	0 (0.0)	23 (34.3)	24 (35.8)	16 (23.9)	67 (100.0)
5AZ4 (motor 13-18, Age ≤ 78)	8 (8.7)	27 (29.3)	34 (37.0)	21 (22.8)	92 (100.0)
All Stroke AN-SNAP Classes	90 (13.5)	206 (30.9)	211 (31.6)	141 (21.1)	667 (100.0)

** There was 0 episode(s) in YOUR FACILITY and 19 episodes in AUSTRALIA with unknown interim accommodation

NOTE: Includes only those episodes with mode of episode end equal to interim accommodation

Interim accommodation post discharge by impairment



NOTE: Includes only those episodes with mode of episode end equal to interim accommodation

Interim accommodation post discharge by impairment

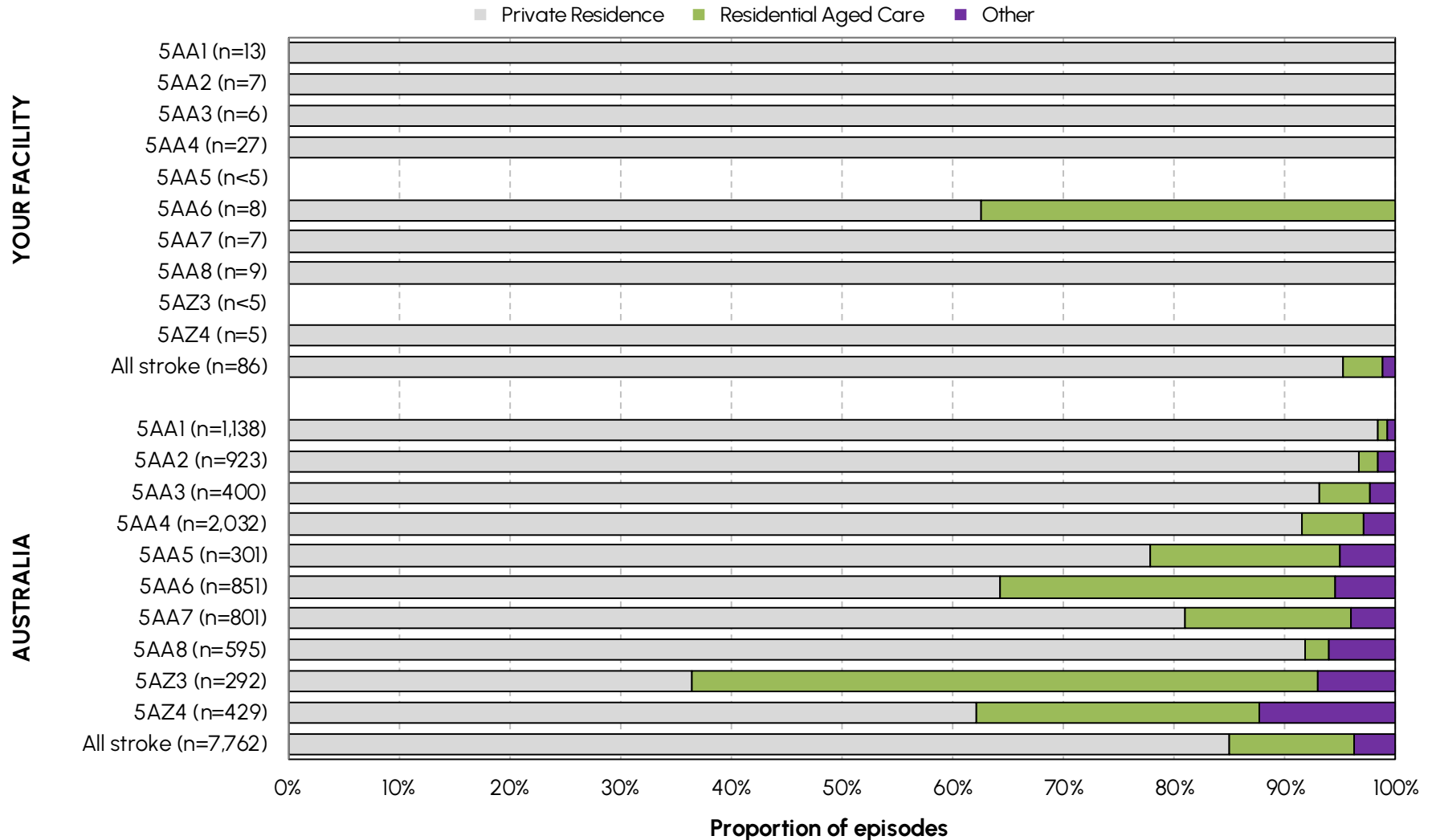
Impairment	YOUR FACILITY — N (%)					All episodes**
	Private residence	Residential Aged Care	Hospital	Other		
1.1 Haemorrhagic	0 —	0 —	0 —	0 —	0 —	0 —
1.2 Ischaemic	2 (33.3)	0 (0.0)	3 (50.0)	1 (16.7)	6 (100.0)	6 (100.0)
All Stroke	2 (33.3)	0 (0.0)	3 (50.0)	1 (16.7)	6 (100.0)	6 (100.0)

Impairment	AUSTRALIA — N (%)					All episodes**
	Private residence	Residential Aged Care	Hospital	Other		
1.1 Haemorrhagic	17 (10.1)	58 (34.5)	52 (31.0)	36 (21.4)	168 (100.0)	168 (100.0)
1.2 Ischaemic	74 (14.8)	148 (29.6)	159 (31.8)	105 (21.0)	500 (100.0)	500 (100.0)
All Stroke	91 (13.6)	206 (30.8)	211 (31.6)	141 (21.1)	668 (100.0)	668 (100.0)

** There was 0 episode(s) in YOUR FACILITY and 19 episodes in AUSTRALIA with unknown interim accommodation

NOTE: Includes only those episodes with mode of episode end equal to interim accommodation

Final accommodation post discharge by AN-SNAP class



NOTE: Includes only those episodes with mode of episode end equal to either final or interim accommodation

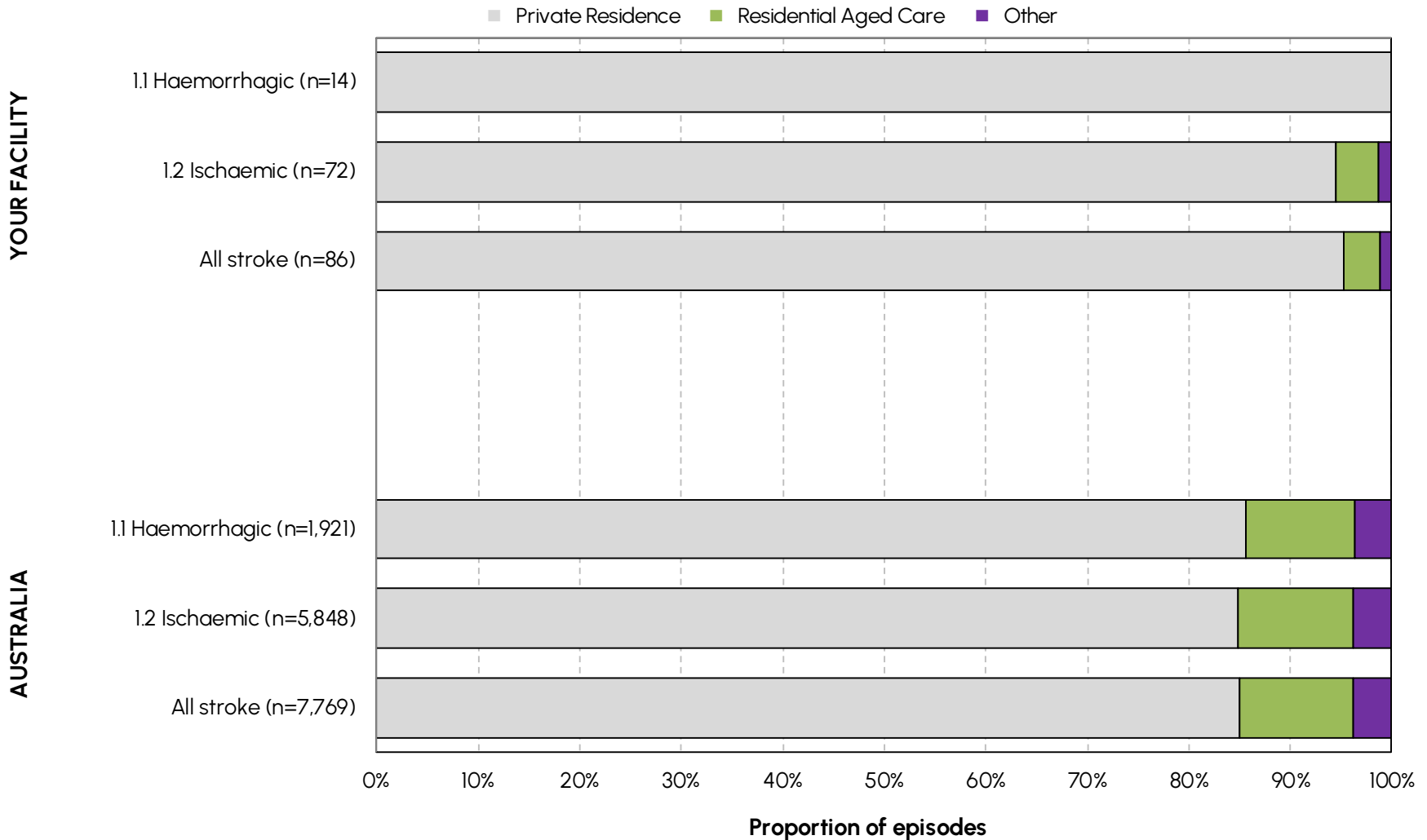
Final accommodation post discharge by AN-SNAP class

AN-SNAP class V5	YOUR FACILITY — N (%)				
	Private residence	Residential Aged Care	Other	Missing	All episodes
5AA1 (motor 63-91, cognition 30-35)	13 (100.0)	0 (0.0)	0 (0.0)	0	13 (100.0)
5AA2 (motor 63-91, cognition 21-29)	6 (100.0)	0 (0.0)	0 (0.0)	1	6 (100.0)
5AA3 (motor 63-91, cognition 5-20)	6 (100.0)	0 (0.0)	0 (0.0)	0	6 (100.0)
5AA4 (motor 44-62, cognition 18-35)	27 (100.0)	0 (0.0)	0 (0.0)	0	27 (100.0)
5AA5 (motor 44-62, cognition 5-17)	3 (100.0)	0 (0.0)	0 (0.0)	0	3 (100.0)
5AA6 (motor 19-43, Age ≥ 80)	5 (62.5)	3 (37.5)	0 (0.0)	0	8 (100.0)
5AA7 (motor 19-43, Age 67-79)	7 (100.0)	0 (0.0)	0 (0.0)	0	7 (100.0)
5AA8 (motor 19-43, Age ≤ 66)	9 (100.0)	0 (0.0)	0 (0.0)	0	9 (100.0)
5AZ3 (motor 13-18, Age ≥ 79)	0 (0.0)	0 (0.0)	1 (100.0)	0	1 (100.0)
5AZ4 (motor 13-18, Age ≤ 78)	5 (100.0)	0 (0.0)	0 (0.0)	0	5 (100.0)
All Stroke AN-SNAP Classes	81 (95.3)	3 (3.5)	1 (1.2)	1	85 (100.0)

AN-SNAP class V5	AUSTRALIA — N (%)				
	Private residence	Residential Aged Care	Other	Missing	All episodes
5AA1 (motor 63-91, cognition 30-35)	1,108 (97.4)	10 (0.9)	9 (0.8)	11	1,138 (100.0)
5AA2 (motor 63-91, cognition 21-29)	880 (95.3)	15 (1.6)	15 (1.6)	13	923 (100.0)
5AA3 (motor 63-91, cognition 5-20)	366 (91.5)	18 (4.5)	9 (2.3)	7	400 (100.0)
5AA4 (motor 44-62, cognition 18-35)	1,819 (89.5)	112 (5.5)	57 (2.8)	44	2,032 (100.0)
5AA5 (motor 44-62, cognition 5-17)	231 (76.7)	51 (16.9)	15 (5.0)	4	301 (100.0)
5AA6 (motor 19-43, Age ≥ 80)	537 (63.1)	252 (29.6)	46 (5.4)	16	851 (100.0)
5AA7 (motor 19-43, Age 67-79)	624 (77.9)	116 (14.5)	31 (3.9)	30	801 (100.0)
5AA8 (motor 19-43, Age ≤ 66)	513 (86.2)	12 (2.0)	34 (5.7)	36	595 (100.0)
5AZ3 (motor 13-18, Age ≥ 79)	103 (35.3)	160 (54.8)	20 (6.8)	9	292 (100.0)
5AZ4 (motor 13-18, Age ≤ 78)	248 (57.8)	102 (23.8)	49 (11.4)	30	429 (100.0)
All Stroke AN-SNAP Classes	6,429 (82.8)	848 (10.9)	285 (3.7)	200	7,762 (100.0)

NOTE: Includes only those episodes with mode of episode end equal to either final or interim accommodation

Final accommodation post discharge by impairment



NOTE: Includes only those episodes with mode of episode end equal to either final or interim accommodation

Final accommodation post discharge by impairment

YOUR FACILITY — N (%)					
Impairment	Residential Aged				
	Private residence	Care	Other	Missing	All episodes
1.1 Haemorrhagic	13 (100.0)	0 (0.0)	0 (0.0)	1	13 (100.0)
1.2 Ischaemic	68 (94.4)	3 (4.2)	1 (1.4)	0	72 (100.0)
All Stroke	81 (95.3)	3 (3.5)	1 (1.2)	1	85 (100.0)

AUSTRALIA — N (%)					
Impairment	Residential Aged				
	Private residence	Care	Other	Missing	All episodes
1.1 Haemorrhagic	1,599 (83.2)	200 (10.4)	67 (3.5)	55	1,921 (100.0)
1.2 Ischaemic	4,833 (82.6)	649 (11.1)	218 (3.7)	148	5,848 (100.0)
All Stroke	6,432 (82.8)	849 (10.9)	285 (3.7)	203	7,769 (100.0)

NOTE: Includes only those episodes with mode of episode end equal to either final or interim accommodation

Interim and final accommodation post discharge



NOTE: Includes only those episodes with mode of episode end equal to either final or interim accommodation

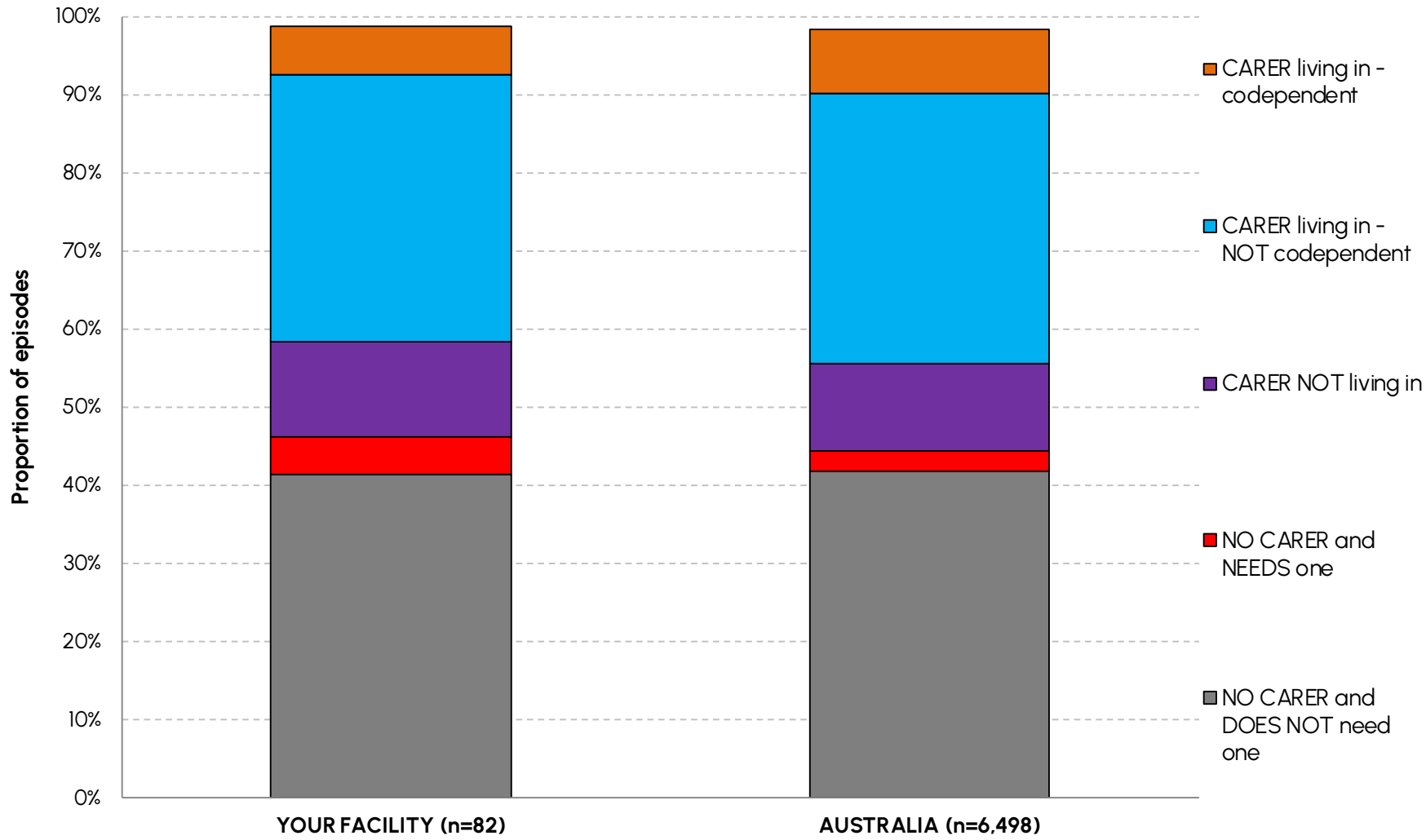
Interim and final accommodation post discharge



Accommodation	YOUR FACILITY				AUSTRALIA			
	Interim	(%)	Final	(%)	Interim	(%)	Final	(%)
Private residence	2	(33.3%)	81	(96.4%)	90	(13.9%)	6,429	(86.9%)
Residential Aged Care	0	(0.0%)	3	(3.6%)	206	(31.8%)	848	(11.5%)
Community group home	0	(0.0%)	0	(0.0%)	6	(0.9%)	35	(0.5%)
Boarding house	0	(0.0%)	0	(0.0%)	4	(0.6%)	11	(0.1%)
Transitional living unit	1	(16.7%)	0	(0.0%)	94	(14.5%)	26	(0.4%)
Hospital	3	(50.0%)	—		211	(32.6%)	—	
Other	0	(0.0%)	0	(0.0%)	37	(5.7%)	49	(0.7%)
Missing/Unknown	0		2		19		364	
All episodes	6	(100.0)	86	(100.0)	667	(100.0)	7,762	(100.0)

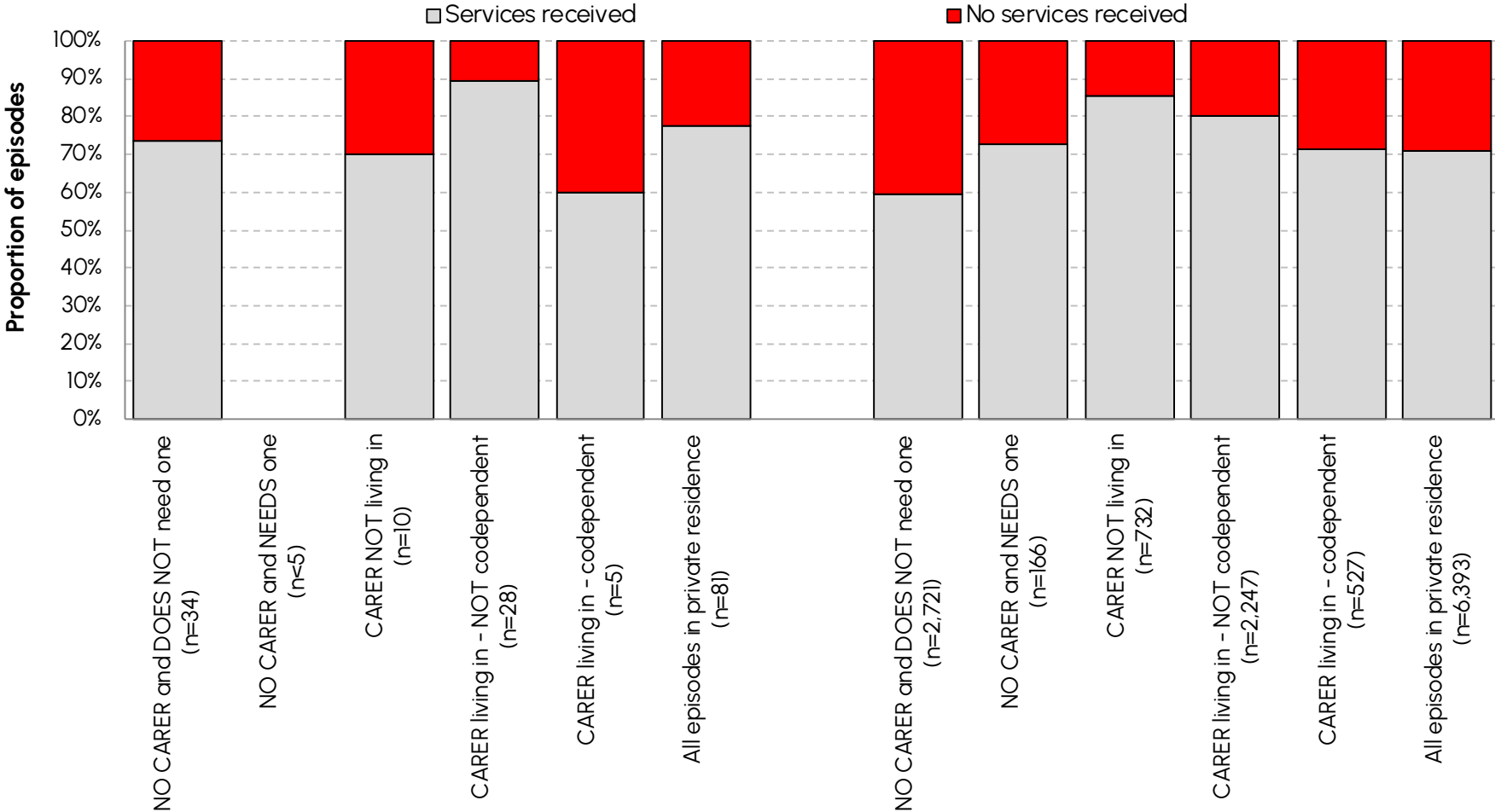
NOTE: Includes only those episodes with mode of episode end equal to either final or interim accommodation

Carer status post discharge



NOTE: Includes only those episodes whose final accommodation is private residence

Any services received post discharge by carer status



YOUR FACILITY (n=81)

AUSTRALIA (n=6,393)

NOTE: Includes only those episodes whose final accommodation is private residence and with known carer status and known services status

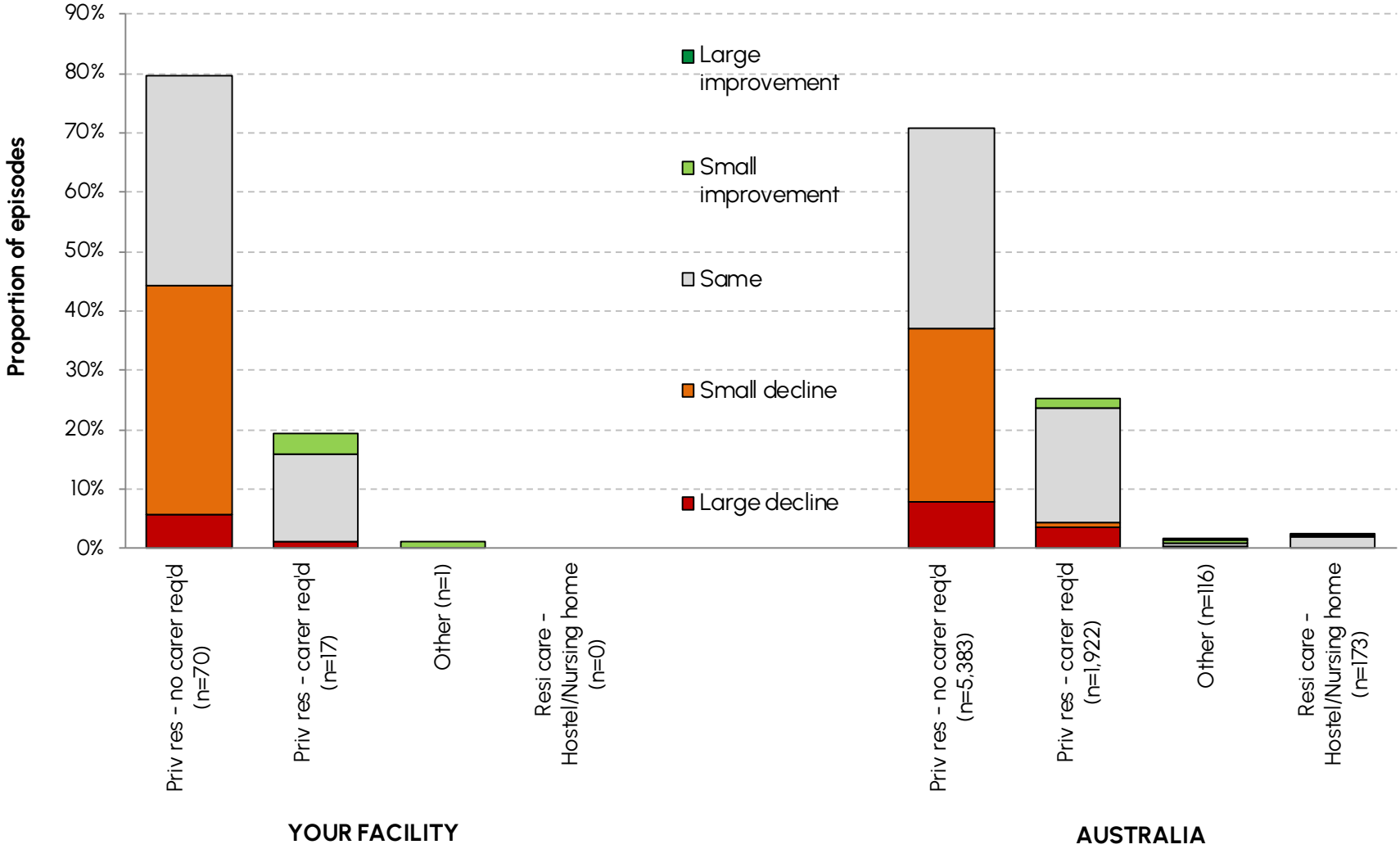
Carer status and any services received post discharge

Carer status post discharge	YOUR FACILITY		AUSTRALIA	
	No.	%	No.	%
NO CARER and DOES NOT need one	34	42.0	2,722	42.6
NO CARER and NEEDS one	4	4.9	166	2.6
CARER NOT living in	10	12.3	733	11.5
CARER living in - NOT codependent	28	34.6	2,249	35.2
CARER living in - codependent	5	6.2	527	8.2
Missing	1		101	
All episodes in private residence	82	100.0	6,498	100.0

Carer status post discharge	Any services received post discharge?			
	YOUR FACILITY		AUSTRALIA	
	Yes (%)	No (%)	Yes (%)	No (%)
NO CARER and DOES NOT need one	73.5	26.5	59.5	40.5
NO CARER and NEEDS one	—	—	72.9	27.1
CARER NOT living in	70.0	30.0	85.5	14.5
CARER living in - NOT codependent	89.3	10.7	80.4	19.6
CARER living in - codependent	60.0	40.0	71.5	28.5
All episodes in private residence	77.8	22.2	71.2	28.8

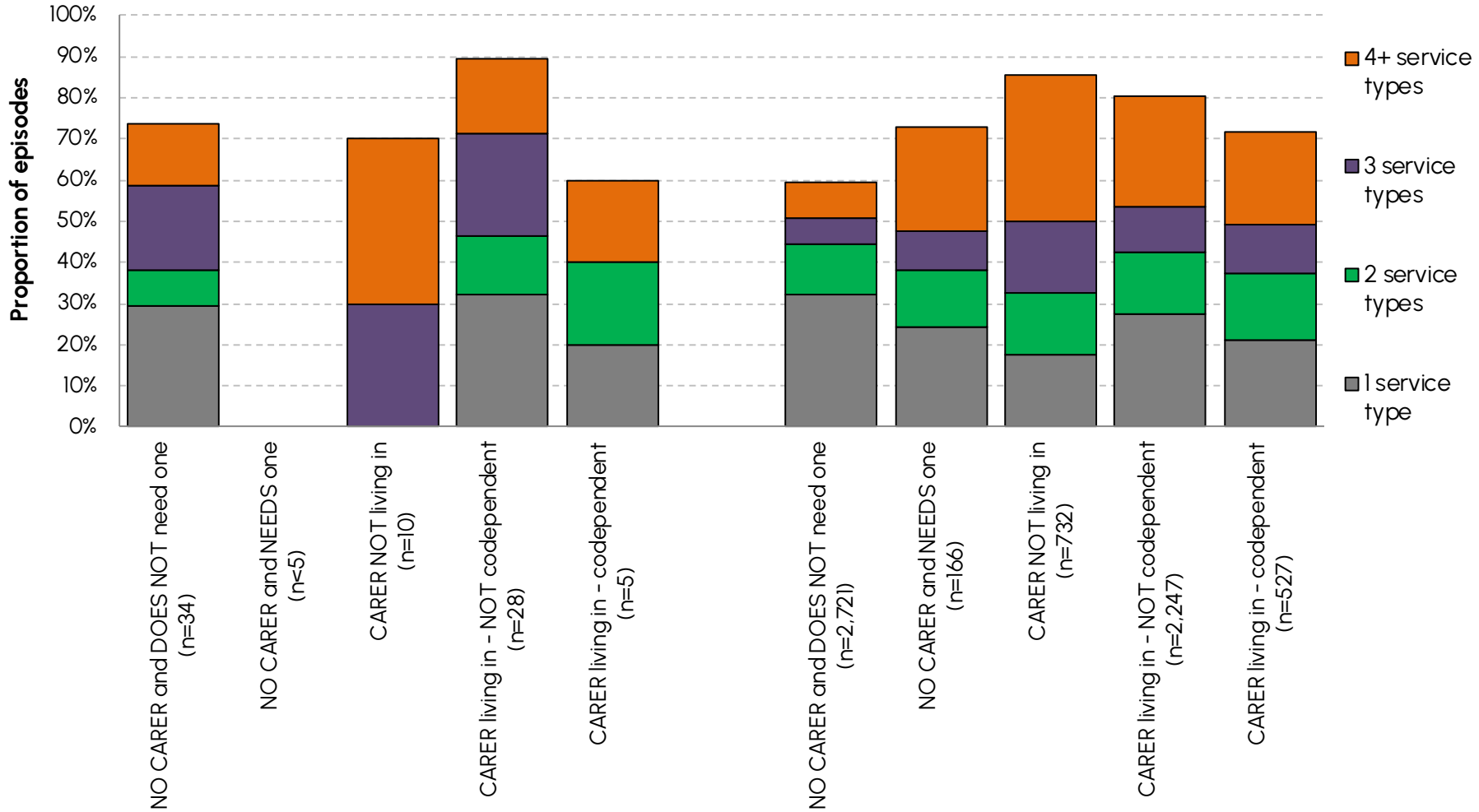
NOTE: Includes only those episodes whose final accommodation is private residence and with known carer status and known services status

Change in prior accommodation post discharge



NOTE: Includes only those episodes whose final accommodation is private residence and with known carer status and known services status

Number of services received post discharge by carer status

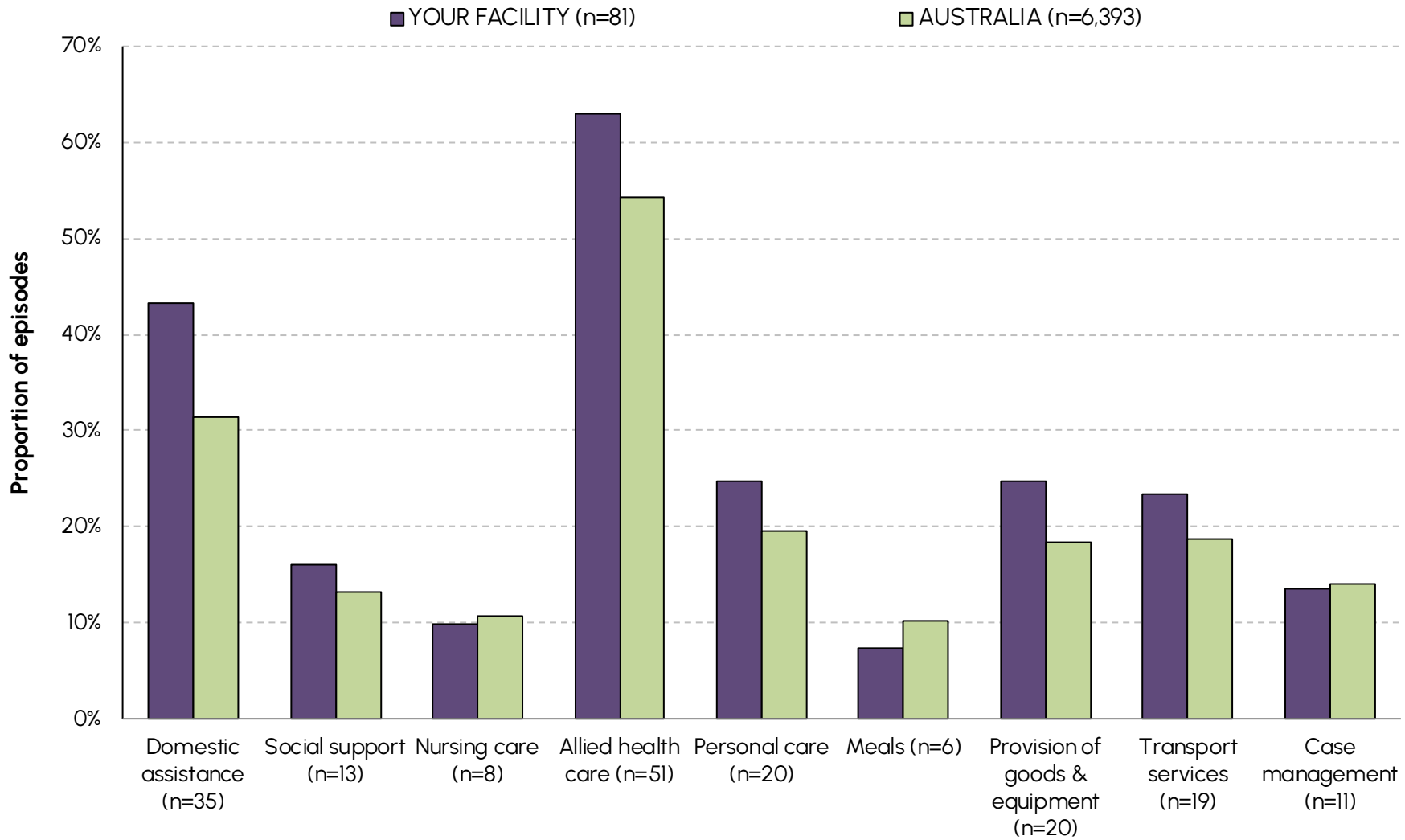


YOUR FACILITY (n=81)

AUSTRALIA (n=6,393)

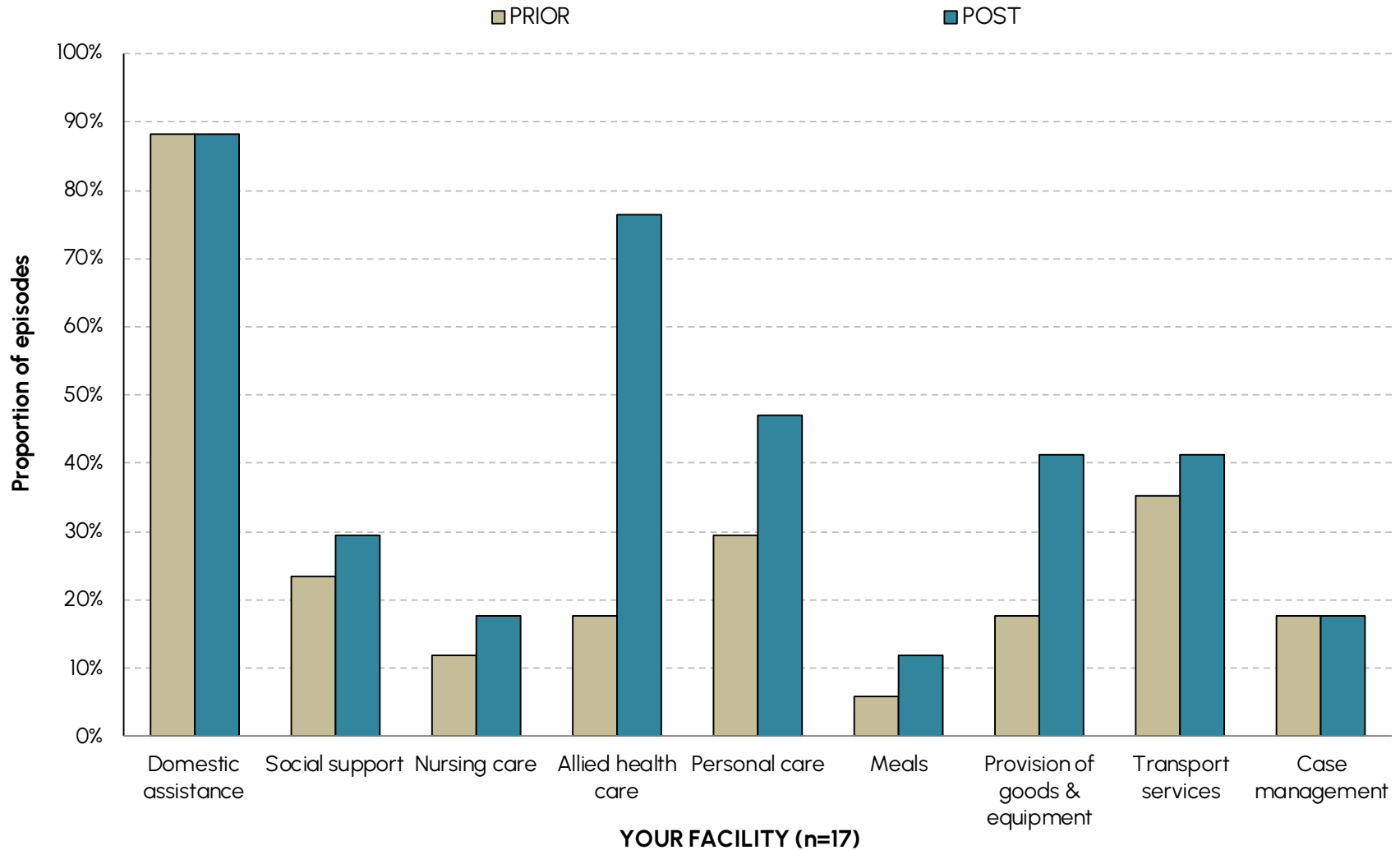
NOTE: Includes only those episodes whose final accommodation is private residence and with known carer status and known services status

Type of services received post discharge



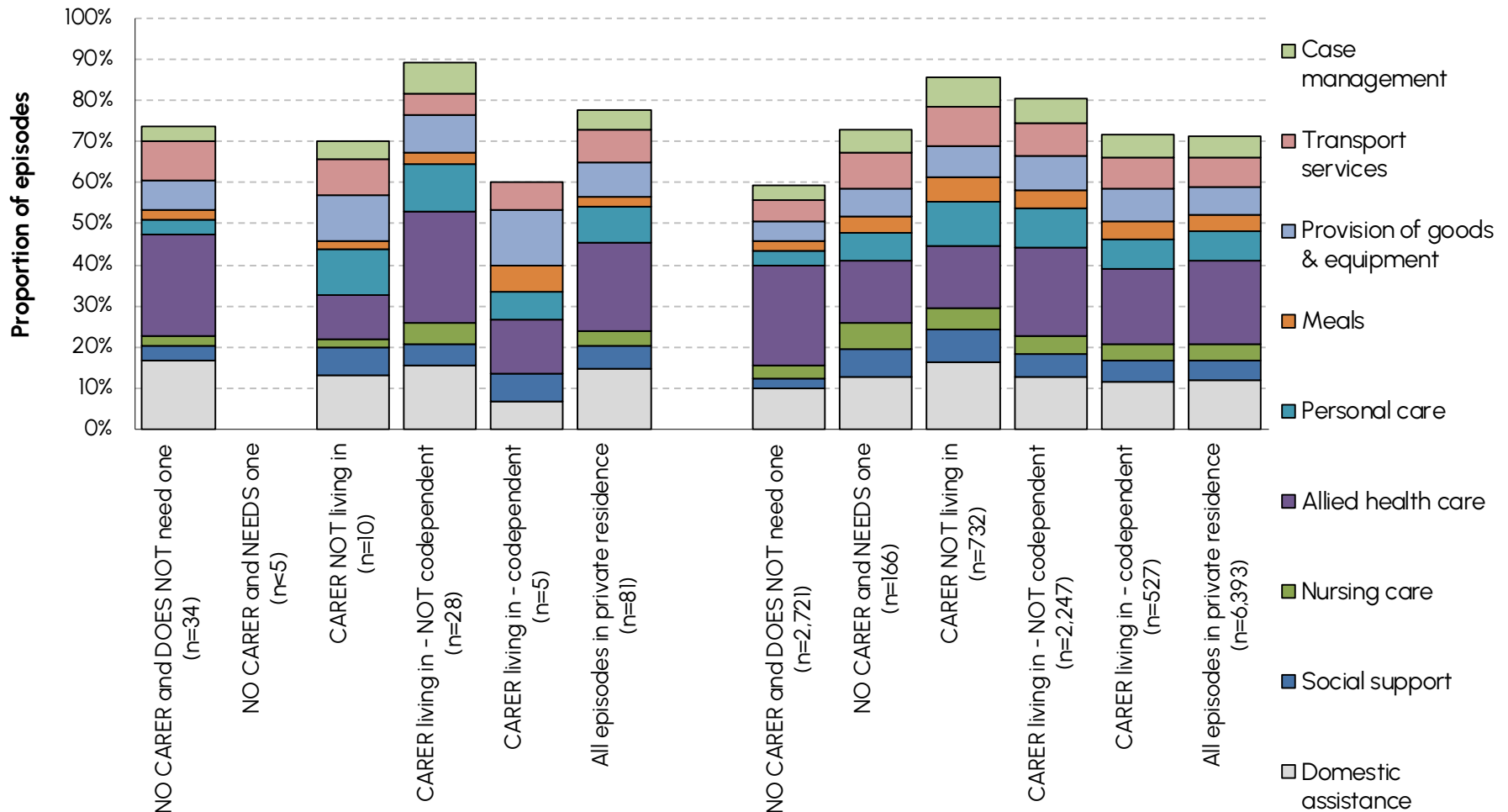
NOTE: Includes only those episodes whose final accommodation is private residence and with known carer status and known services status

Type of services received pre and post rehabilitation



NOTE: Includes only those episodes whose final accommodation is private residence and with known carer status and received services both prior and post the episode

Type of services received post discharge by carer status



YOUR FACILITY (n=81)

AUSTRALIA (n=6,393)

NOTE: Includes only those episodes whose final accommodation is private residence and with known carer status and known services status

Number and type of services received post discharge – Your facility

Services received post discharge	Carer status post discharge - YOUR FACILITY						All episodes in private residence
	NO CARER and DOES NOT need one	NO CARER and NEEDS one	CARER NOT living in	CARER living in - NOT codependent	CARER living in - codependent		
Number of episodes in private residence	34	4	10	28	5	81	
Percent of episodes receiving:							
No services	26.5	25.0	30.0	10.7	40.0	22.2	
1 service type	29.4	0.0	0.0	32.1	20.0	24.7	
2 service types	8.8	25.0	0.0	14.3	20.0	11.1	
3 service types	20.6	0.0	30.0	25.0	0.0	21.0	
4 or more service types	14.7	50.0	40.0	17.9	20.0	21.0	
Service Type received							
Domestic assistance	41.2	50.0	60.0	42.9	20.0	43.2	
Social support	8.8	50.0	30.0	14.3	20.0	16.0	
Nursing care	5.9	25.0	10.0	14.3	0.0	9.9	
Allied health care	61.8	50.0	50.0	75.0	40.0	63.0	
Personal care	8.8	50.0	50.0	32.1	20.0	24.7	
Meals	5.9	0.0	10.0	7.1	20.0	7.4	
Provision of goods & equipment	17.6	0.0	50.0	25.0	40.0	24.7	
Transport services	23.5	50.0	40.0	14.3	20.0	23.5	
Case management	8.8	0.0	20.0	21.4	0.0	13.6	

NOTE: Includes only those episodes whose final accommodation is private residence and with known carer status and known services status

Number and type of services received post discharge – National



Carer status post discharge - AUSTRALIA						
Services received post discharge	NO CARER and DOES NOT need one	NO CARER and NEEDS one	CARER NOT living in	CARER living in - NOT codependent	CARER living in - codependent	All episodes in private residence
Number of episodes in private residence	2,721	166	732	2,247	527	6,393
Percent of episodes receiving:						
No services	40.5	27.1	14.5	19.6	28.5	28.8
1 service type	32.2	24.1	17.8	27.5	21.3	27.8
2 service types	12.1	13.9	14.8	15.0	16.1	13.8
3 service types	6.6	9.6	17.6	11.2	12.0	10.0
4 or more service types	8.6	25.3	35.2	26.6	22.2	19.6
Service Type received						
Domestic assistance	19.2	38.6	57.1	36.8	33.2	31.4
Social support	5.1	20.5	26.8	17.0	16.1	13.1
Nursing care	6.4	19.9	18.0	12.7	11.0	10.7
Allied health care	47.6	45.8	53.1	63.4	53.7	54.2
Personal care	7.5	21.1	36.2	27.9	21.6	19.5
Meals	4.4	12.0	20.8	13.3	11.8	10.2
Provision of goods & equipment	10.0	19.9	26.8	24.4	23.5	18.4
Transport services	10.1	26.5	32.8	22.8	22.2	18.6
Case management	7.1	17.5	24.6	18.0	16.1	14.0

NOTE: Includes only those episodes whose final accommodation is private residence and with known carer status and known services status

AN-SNAP class

The Australian National Sub-Acute and Non-Acute Patient Classification (AN-SNAP) is a casemix classification for sub-acute and non-acute care provided in a variety of treatment settings. Version 5, introduced in July 2022 and used in these reports, uses the episode's impairment, age, weighted FIM motor admission score and FIM cognition score to determine which of 48 inpatient (admitted overnight adult) rehabilitation classes the episode should be assigned to.

Between AN-SNAP V4 and V5 there have been some minor refinements to the positioning of age and FIM score splits, and minor revisions to the impairment-specific weights used for the FIM item scores in the calculation of a motor score; orthopaedic replacement classes (lost in Version 4) have returned and brain injury classes are now split first on cognition FIM scores and second on motor FIM scores. Refer Appendix 3 for the full list of classes and the section Impairment specific weighted FIM scores below for more detail about how the items are weighted. For more information about AN-SNAP class V5 please refer to the AROC website.

AROC

The Australasian Rehabilitation Outcomes Centre (AROC) is the Australian and New Zealand rehabilitation medicine **integrated outcomes centre** that collects rehabilitation outcome measures at point-of-care from both private and public rehabilitation services across both countries. Established in 2002 it is a joint initiative of the Australasian rehabilitation sector (providers, payers, regulators and consumers) and current membership encompasses close to 100% of all Australian and New Zealand rehabilitation services, who routinely submit deidentified data to AROC for each rehabilitation episode, including information about demographics, process indicators and functional status.

Benchmark group

Benchmark groups are set nationally for all conditions except for those episodes recorded as brain injury or spinal cord injury (these include those with a major multi trauma involving brain and/or spinal cord injury). Benchmark groups for episodes of brain injury and spinal cord injury are set separately for traumatic and non-traumatic episodes by first admission episodes reported by specialist units binationally.

For Australian episodes and those episodes with a brain injury or spinal cord injury benchmarks are calculated each reporting period using all episodes submitted to AROC during the current reporting period. Commencing with the Calendar Year 2024 benchmark reports New Zealand episodes are benchmarked using the previously published CY2023 New Zealand benchmarks due to decreased episode volume.

Casemix-adjusted relative mean

A comparison of some statistics such as length of stay and FIM change is only possible if the groups being compared comprise similar episodes. The specific impairment, level of functional independence, age and other factors relating to the episode have an impact on these statistics. If, for example, your mean length of stay were different from the benchmark group, we could not tell if your episodes really were different or if the difference was merely due to the unique casemix.

To overcome this difficulty, it is possible to statistically control for casemix. This is achieved by adjusting measures such as length of stay and FIM change so that the comparison is only made between similar types of episodes.

In this report we have calculated casemix-adjusted relative mean length of stay and casemix-adjusted relative mean FIM change for completed episodes. To do this, we needed to know the LOS (or FIM change) and AN-SNAP class for each episode as well as the mean LOS (or FIM change) for the benchmark group for each AN-SNAP class. We then calculated the difference between each episode LOS (or FIM change) and the mean LOS (or FIM change) of the appropriate AN-SNAP class. These differences were then averaged to produce the casemix-adjusted relative mean. This may be easier to understand as a set of two equations illustrated below.

For each episode calculate:

LOSdiff = episode's LOS – mean LOS appropriate AN-SNAP class.

Casemix-adjusted relative mean = Sum of LOSdiff for all episodes divided by Number of episodes

A casemix-adjusted relative mean length of stay of, say, -2 days would indicate that, on average, your facility has a LOS of 2 days less than similar episodes in the benchmark group. A casemix-adjusted relative mean FIM change of, say, 4 would indicate that, on average, your facility improved 4 FIM points more than similar episodes in the benchmark group. It is important to consider both of these statistics together. For example, your episodes may have stayed longer than similar episodes in the benchmark group, but they may also have achieved a greater functional improvement.

Complete/incomplete episode

An episode is considered "complete" for the purpose of calculating outcome statistics in this report if (A) the mode of episode end was either 1 (discharged to usual accommodation) or 2 (discharged to interim accommodation) AND total FIM score at episode end was greater than 18, or (B) the mode of episode end was 7 (change of care type within sub-acute/non-acute care) AND length of stay greater than 6 days.

Confidence interval for a mean

To decide if a difference between your facility's mean score and the benchmark group's mean is statistically significant, look at the two confidence intervals. If they overlap, the difference is not likely to be statistically significant. For example your facility's mean onset to first admission may be 16 days while the benchmark group's mean is 12 days. These values are certainly different, but the difference may not be statistically significant. If the 95% confidence interval of your data were (13 – 19) (i.e. 13 days to 19 days) and that of the benchmark group data set were (10.5 – 13.5) (i.e. 10.5 days to 13.5 days), the difference is not likely to be statistically significant as the two confidence intervals overlap. Note that this is a conservative comparison and is not as accurate as a formal statistical test.

COVID-19

The immediate impact of COVID-19 in 2020 on rehabilitation was a 12% decline in the number of rehabilitation episodes following temporary suspension of elective surgeries, ward re-assignments and closures, and fewer traumatic accidents. There is still an ongoing impact of COVID-19 on rehabilitation in the form of reduced inpatient beds, increased patient complexity and staffing issues.

The extent of the impact of COVID-19 on the demand for rehabilitation in both the inpatient or community rehabilitation is still being realised. To help measure the impact of COVID, and importantly long COVID, AROC added COVID specific impairment codes, comorbidity and complication codes to the AROC datasets effective July 2022. Appendix 2 lists the COVID impairment codes, which map to AN-SNAP V5 classes 5A91-5A93 & 5AZ3-5AZ4. COVID related data provided to AROC through the adjunct data collection along with entries in the patient comment field have been mapped to the new COVID codes.

- **Guidelines for the collection and coding of COVID-19 AROC data** can be found at <https://documents.uow.edu.au/content/groups/public/@web/@chsd/@aroc/documents/doc/uow272916.pdf>
- **The AROC COVID Coding Decision Tree** can be found at <https://documents.uow.edu.au/content/groups/public/@web/@chsd/@aroc/documents/doc/uow272917.pdf>
- Updated **Data Collection Forms** can be found at <https://ahsri.atlassian.net/wiki/spaces/AD/pages/17268778/Data+Collection+Forms>
- Services who do not have access to the new COVID codes are asked to identify patients who have had COVID-19 in the AROC data set services by entering the relevant **COVID-19 impairment code, comorbidity or complication** (as appropriate) in the patient comment field.

COVID-19 (cont.)

The potential sequelae of COVID-19 appear to be numerous, so the functional deficits of these patients that result in the need for rehabilitation can be quite varied. To enable comprehensive reporting of rehabilitation outcomes for these patients, the National COVID-19 rehabilitation adjunct data collection was created, in collaboration with the NSW Agency for Clinical Innovation's Rehabilitation Community of Practice.

The national COVID-19 rehabilitation adjunct data collection covers all care settings – in-reach, inpatient and ambulatory – and services do not need to be an AROC member to participate. The data collection is to be completed for **ALL** patients who have received a positive diagnosis of COVID-19 and are now participating in rehabilitation in any care setting (even if COVID codes have been used in the AROC data collection). Where possible and appropriate, the National COVID-19 rehabilitation adjunct data will be linked with the AROC inpatient and/or ambulatory data collections.

The National COVID-19 rehabilitation adjunct data collection is entered online at
<https://apps.ahsri.uow.edu.au/redcap/surveys/?s=DR4AE3FHAX>

All relevant data items must be known prior to commencing data entry as there is no save and resume function. For convenience a data collection form is provided as an optional mechanism to collect the data (available here
<https://apps.ahsri.uow.edu.au/downloads/CovidCollection.pdf>).

Data Concatenation

Increasingly some jurisdictions have introduced business rules around data collection that have resulted in episodes of rehabilitation being ended and then re-commenced a few days later. AROC definitions would record these as one episode with the period in between defined as a suspension of rehabilitation. Such business rules result in two (or more) episodes of rehabilitation being reported to AROC when only one full episode should be reported.

Whilst this happens much more frequently in some impairment groups (e.g. spinal cord injury & brain injury) it does impact all impairments to some degree. Reporting of multiple episodes impacts outcomes analysis, resulting in shorter than real length of stays and reduced FIM change being reported.

Concatenated episodes will have a revised Length of stay and FIM change (start details will be taken from the identified primary episode; end details from the identified final episode), and will also have a revised number of suspensions (being the sum across all concatenated 'submitted episodes' plus the number of breaks between 'submitted episodes') and a revised number of suspension days (being the sum across all concatenated 'submitted episodes' plus the sum of all days between 'submitted episodes').

Submitted episodes to AROC are identified for concatenation based on the following rules:

- Subsequent episodes **MUST** have same impairment code and be from same reporting facility with same MRN and DOB.
- Leading episode must be discharged into the hospital system with following episode being admitted from hospital system.
- Number of days between episodes being 0-14 days for spinal and 0-7 days for all other impairments.

To make it easier for AROC to identify episodes that should be concatenated in January 2014 the data item Mode of Episode Start had an additional code set value added: **9 = recommenced rehabilitation episode following suspension.**

Data completeness score

The data completeness score is the average percent reported for all AROC data items (including impairment specific items where relevant) with the exception of those items that are optional. Path, facility code, facility name, MRN and episode end date are not included as these fields are used to extract the data for reporting.

Functional Independence Measure (FIM)

The Functional Independence Measure (FIM) is used as a tool to assess the functional independence of patients at episode start and end.

- The **FIM motor score** is the sum of the scores obtained for the first thirteen (13) items in the FIM instrument. A higher FIM motor score indicates a greater level of functional independence in motor skills.
- The **FIM cognition score** is the sum of the scores obtained for the final five (5) items in the FIM instrument. A higher FIM cognition score indicates better cognitive function.

FIM change

The change in functional status from the beginning to the end of the episode is measured by the change in FIM score. This is calculated as the FIM score at the end of the episode minus the FIM score at the start of the episode. In some instances the change in total FIM score (the sum of items 1 to 18) is calculated. In other cases either the change in FIM motor score (the sum of items 1 to 13) or the change in FIM cognition score (the sum of items 14 to 18) is calculated.

A higher FIM score corresponds to higher level of function while a lower FIM score represents less functional independence. This means that a positive value for the change in FIM score indicates functional improvement during the episode. A negative value for the change in FIM score indicates a decline in functional independence during the episode.

FIM efficiency

The FIM efficiency indicates the average FIM improvement per day. This statistic is calculated as the mean FIM change divided by the mean length of stay (LOS).

Impairment-specific weighted FIM motor scores

AN-SNAP v5, like Version 4, uses impairment-specific weighted FIM motor scores in the inpatient (admitted overnight adult) rehabilitation classes. Weights reflect the relative impact of each item on the cost of caring for the rehabilitation patient. If an item has a weight of more than 1, it will have an impact on the cost of care that is more than average – a weight less than 1 implies the impact will be less than average. Within each impairment type, the weights are scaled to sum to 13 – thus both weighted and unweighted scores range from a minimum of 13 to a maximum of 91. Where impairments are grouped together in the classification, a single set of weights for that group has been derived. The exception is the FIM motor item stairs where all weights were set to 1.

Interquartile range (IQR)

The middle 50% — between the 25% percentile and the 75% percentile.

Length of stay (LOS)

The length of stay (LOS) of an episode is the number of days on which care has been provided. It is calculated as the end date minus the start date, minus the number of leave days during the episode.

Mean

The mean, or average, is a measure of the "centre" of your data. It is calculated by adding all data values and dividing by the number of values. The mean can be used to calculate a total. For example, if the mean length of stay were 21 days for a group of 30 episodes, the total number of bed days could be calculated as 21 multiplied by 30.

Mean or median - which to use?

The mean and the median are both measures of the "centre" of your data. For data that are symmetric about the mean (e.g. normally distributed data), the mean and the median will be close to each other. However they may have very different values for some data sets.

As an example, consider length of stay. Typically, most episodes within a class will have roughly the same length of stay. However, there will be a few episodes that are longer than the others and a smaller number that are very long. These longer lengths of stay have the effect of increasing the mean length of stay, but have little or no effect on the median.

If you want to know how long episodes in this class "typically" stay, you will probably be interested in the median as this gives you the middle value - half the episodes are longer and half the episodes are shorter. If, however, your interest is in allocation of resources and you want to know how long episodes stay on average, or if you want to get an idea of the total number of days of care provided to episodes in this class, you will need to look at the mean. (The total days can be calculated by multiplying the mean with the number in the class).

Median

The median provides the middle value of your data – half the values lie above it and half the values lie below. For example, if your median length of stay were 20 days, half of your episodes would have stayed for 20 days or less, while the other half would have stayed 20 days or longer. Note that the median, unlike the mean, cannot be used to calculate the total number of bed days.

Relative Functional Gain (RFG) and Relative Functional Efficiency (RFE)

FIM change measures the absolute difference between admission FIM and discharge FIM scores, i.e. client 1 had a 10 point improvement (admission 46 - discharge 56) and client 2 also had a ten point improvement (admission 116 - discharge 126). FIM change does not take into account the proportion of FIM change possible, i.e. client 1 improved 10 points out of possible 80 (126-46) and client 2 improved 10 points out of a possible 10 (126-116). So not all patients that improve 10 FIM points are the same. This proportion of FIM change possible is known as the Relative Functional Gain (RFG) and tries to take into account the amount of FIM gain possible. RFG is calculated as follows:

- If actual FIM change > 0 [improved]
 - **(Discharge FIM - Admission FIM)/(126 - Admission FIM)**
 - e.g. $(90 - 50)/(126-50) = 40/76 = 52.6\%$
- If actual FIM change < 0 [declined]
 - **(Discharge FIM - Admission FIM)/ (Admission FIM)**
 - e.g. $(90 - 100)/100 = -10/100 = -10\%$
- If actual FIM change = 0 [no change]
 - 0%

FIM efficiency measures the absolute difference between admission FIM and discharge FIM scores per day, without taking into account the proportion of FIM change possible. The Relative Functional Gain per day is known as the Relative Functional Efficiency (RFE), and is calculated as the RFG divided by the length of stay (LOS).

Submitted versus reporting episodes

Submitted episodes are those submitted to AROC either via direct data entry or upload through AROC Online Services. These episodes have not been concatenated.

The reporting data used by AROC in this report is made up of concatenated episodes. For most episodes there is no difference between the submitted episode and the one used for reporting.

Valid FIM

For an episode to have a Valid FIM flag it must be a complete episode and each of the 18 items on admission and discharge must have been answered with a valid response of 1-7. The Valid FIM flag is used in analysis which measures FIM scores as an outcome.

Valid LOS

For an episode to have a Valid LOS flag it must be a complete episode with a length of stay ranging between 1 and 500 days. The Valid LOS flag is used in analysis which measures LOS as an outcome.

Version 4 data set

The version 4 (V4) AROC dataset was introduced on 1 July 2012. V4 is designed as a bank of data items, combinations of which are used to describe 4 possible pathways of care (see the AROC website for more information about the different pathways). NOTE: This report utilises only Pathway 3 data (inpatient direct care).

Appendix 2: AROC Impairment Codes

STROKE

Haemorrhagic

- 1.11 Left body involvement
- 1.12 Right body involvement
- 1.13 Bilateral involvement
- 1.14 No paresis
- 1.19 Other haemorrhagic stroke

Ischaemic

- 1.21 Left body involvement (right brain)
- 1.22 Right body involvement (left brain)
- 1.23 Bilateral involvement
- 1.24 No paresis
- 1.29 Other ischaemic stroke

BRAIN DYSFUNCTION

Non-traumatic

- 2.11 Sub-arachnoid haemorrhage
- 2.12 Anoxic brain damage
- 2.13 Other non-traumatic brain dysfunction

Traumatic

- 2.21 Open injury
- 2.22 Closed injury

NEUROLOGICAL CONDITIONS

- 3.1 Multiple Sclerosis
- 3.2 Parkinsonism
- 3.3 Polyneuropathy
- 3.4 Guillian-Barre
- 3.5 Cerebral palsy
- 3.8 Neuromuscular disorders
- 3.9 Other neurological conditions

SPINAL CORD DYSFUNCTION

Non traumatic spinal cord dysfunction

- 4.111 Paraplegia, incomplete
- 4.112 Paraplegia, complete
- 4.1211 Quadriplegia, incomplete C1-4
- 4.1212 Quadriplegia, incomplete C5-8
- 4.1221 Quadriplegia, complete C1-4
- 4.1222 Quadriplegia, complete C5-8
- 4.13 Other non-traumatic spinal cord dysfunction

Traumatic spinal cord dysfunction

- 4.211 Paraplegia, incomplete
- 4.212 Paraplegia, complete
- 4.2211 Quadriplegia, incomplete C1-4
- 4.2212 Quadriplegia, incomplete C5-8
- 4.2221 Quadriplegia, complete C1-4
- 4.2222 Quadriplegia, complete C5-8
- 4.23 Other traumatic spinal cord dysfunction

AMPUTATION OF LIMB

Not resulting from trauma

- 5.11 Single upper above elbow
- 5.12 Single upper below elbow
- 5.13 Single lower above knee (includes through knee)
- 5.14 Single lower below knee
- 5.15 Double lower above knee (includes through knee)
- 5.16 Double lower above/below knee
- 5.17 Double lower below knee
- 5.18 Partial foot (single or double)
- 5.19 Other amputation not from trauma

AMPUTATION OF LIMB

Resulting from trauma

- 5.21 Single upper above elbow
- 5.22 Single upper below elbow
- 5.23 Single lower above knee (includes through knee)
- 5.24 Single lower below knee
- 5.25 Double lower above knee (includes through knee)
- 5.26 Double lower above/below knee
- 5.27 Double lower below knee
- 5.28 Partial foot (single or double)
- 5.29 Other amputation from trauma

ARTHRITIS

- 6.1 Rheumatoid arthritis
- 6.2 Osteoarthritis
- 6.9 Other arthritis

PAIN SYNDROMES

- 7.1 Neck pain
- 7.2 Back Pain
- 7.3 Extremity pain
- 7.4 Headache (includes migraine)
- 7.5 Multi-site pain
- 7.9 Other pain (includes abdo/chest wall)

Appendix 2: AROC Impairment Codes

ORTHOPAEDIC CONDITIONS

Fractures (includes dislocation)

- 8.111 Fracture of hip, unilateral (incl. #NOF)
- 8.112 Fracture of hip, bilateral (incl. #NOF)
- 8.12 Fracture of shaft of femur
- 8.13 Fracture of pelvis
- 8.141 Fracture of knee
- 8.142 Fracture of lower leg, ankle, foot
- 8.15 Fracture of upper limb
- 8.16 Fracture of spine
- 8.17 Fracture of multiple sites
- 8.19 Other orthopaedic fracture

Post Orthopaedic Surgery

- 8.211 Unilateral hip replacement
- 8.212 Bilateral hip replacement
- 8.221 Unilateral knee replacement
- 8.222 Bilateral knee replacement
- 8.231 Knee and hip replacement, same side
- 8.232 Knee and hip replacement, diff sides
- 8.24 Shoulder replacement
- 8.25 Post spinal surgery
- 8.26 Other orthopaedic surgery

Soft tissue injury

- 8.3 Soft tissue injury

CARDIAC

- 9.1 Following recent onset of new cardiac impairment
- 9.2 Chronic cardiac insufficiency
- 9.3 Heart and heart/lung transplant

PULMONARY

- 10.1 Chronic obstructive pulmonary disease
- 10.2 Lung transplant
- 10.9 Other pulmonary

BURNS

- 11 Burns

CONGENITAL DEFORMITIES

- 12.1 Spina bifida
- 12.9 Other congenital deformity

OTHER DISABLING IMPAIRMENTS

- 13.1 Lymphoedema
- 13.3 Conversion disorder
- 13.9 Other disabling impairments that cannot be classified into a specific group

MAJOR MULTIPLE TRAUMA

- 14.1 Brain + spinal cord injury
- 14.2 Brain + multiple fracture/amputation
- 14.3 Spinal cord + multi fracture/amputation
- 14.9 Other multiple trauma

DEVELOPMENTAL DISABILITIES

- 15.1 Developmental disabilities (excludes cerebral palsy)

RE-CONDITIONING/RESTORATIVE

- 16.1 Re-conditioning following surgery
- 16.2 Reconditioning following medical illness
- 16.3 Cancer rehabilitation

COVID-19 CONDITIONS

- 18.1 COVID-19 with pulmonary issues
- 18.2 COVID-19 with deconditioning
- 18.9 COVID-19 all other

Appendix 3: AN-SNAP V5 Overnight Rehabilitation Classes



Class	Description of AN-SNAP class
5AA1	Stroke, Weighted FIM Motor 63 - 91, FIM Cognition 30 - 35
5AA2	Stroke, Weighted FIM Motor 63 - 91, FIM Cognition 21 - 29
5AA3	Stroke, Weighted FIM Motor 63 - 91, FIM Cognition 5 - 20
5AA4	Stroke, Weighted FIM Motor 44 - 62, FIM Cognition 18 - 35
5AA5	Stroke, Weighted FIM Motor 44 - 62, FIM Cognition 5 - 17
5AA6	Stroke, Weighted FIM Motor 19 - 43, Age >= 80
5AA7	Stroke, Weighted FIM Motor 19 - 43, Age 67 - 79
5AA8	Stroke, Weighted FIM Motor 19 - 43 Age 18 - 66
5AB1	Brain dysfunction, FIM Cognition 27 - 35 Weighted FIM Motor 59 - 91
5AB2	Brain dysfunction, FIM Cognition 27 - 35 Weighted FIM Motor 19 - 58
5AB3	Brain dysfunction, FIM Cognition 19 - 26 Weighted FIM Motor 50 - 91
5AB4	Brain dysfunction, FIM Cognition 19 - 26 Weighted FIM Motor 19 - 49
5AB5	Brain dysfunction, FIM Cognition 5 - 18 Weighted FIM Motor 39 - 91
5AB6	Brain dysfunction, FIM Cognition 5 - 18 Weighted FIM Motor 19 - 38
5AC1	Neurological conditions, Weighted FIM Motor 70 - 91
5AC2	Neurological conditions, Weighted FIM Motor 50 - 69
5AC3	Neurological conditions, Weighted FIM Motor 19 - 49
5AD1	Spinal cord dysfunction, Weighted FIM Motor 55 - 91
5AD2	Spinal cord dysfunction, Weighted FIM Motor 37 - 54
5AD3	Spinal cord dysfunction, Weighted FIM Motor 19 - 36
5AE1	Amputation of limb, Weighted FIM Motor 19-91
5AH1	Orthopaedic conditions, fractures, Weighted FIM Motor 48 - 91, FIM Cognition 33 - 35
5AH2	Orthopaedic conditions, fractures, Weighted FIM Motor 48 - 91, FIM Cognition 21 - 32
5AH3	Orthopaedic conditions, fractures, Weighted FIM Motor 48 - 91, FIM Cognition 5 - 20

Class	Description of AN-SNAP class
5AH4	Orthopaedic conditions, fractures, Weighted FIM Motor 19 - 47
5A41	Orthopaedic conditions, replacement (knee, hip, shoulder), Weighted FIM Motor 61 - 91
5A42	Orthopaedic conditions, replacement (knee, hip, shoulder), Weighted FIM Motor 45 - 60
5A43	Orthopaedic conditions, replacement (knee, hip, shoulder), Weighted FIM Motor 19 - 44
5A21	Orthopaedic conditions, all other, Weighted FIM Motor 57 - 91
5A22	Orthopaedic conditions, all other, Weighted FIM Motor 41 - 56
5A23	Orthopaedic conditions, all other, Weighted FIM Motor 19 - 40
5A31	Cardiac, Pain syndromes, and Pulmonary, Weighted FIM Motor 66 - 91
5A32	Cardiac, Pain syndromes, and Pulmonary, Weighted FIM Motor 38 - 65
5A33	Cardiac, Pain syndromes, and Pulmonary, Weighted FIM Motor 19 - 37
5AP1	Major Multiple Trauma, Weighted FIM Motor 51 - 91
5AP2	Major Multiple Trauma, Weighted FIM Motor 19 - 50
5AR1	Reconditioning, Weighted FIM Motor 64 - 91, FIM Cognition 29 - 35
5AR2	Reconditioning, Weighted FIM Motor 64 - 91, FIM Cognition 5 - 28
5AR3	Reconditioning, Weighted FIM Motor 48 - 63, FIM Cognition 19 - 35
5AR4	Reconditioning, Weighted FIM Motor 48 - 63, FIM Cognition 5 - 18
5AR5	Reconditioning, Weighted FIM Motor 19 - 47
5A91	All other impairments, Weighted FIM Motor 61 - 91
5A92	All other impairments, Weighted FIM Motor 42 - 60
5A93	All other impairments, Weighted FIM Motor 19 - 41
5AZ1	Weighted FIM Motor score 13-18, Brain, Spine, MMT, Burns, Age >= 59
5AZ2	Weighted FIM Motor score 13-18, Brain, Spine, MMT, Burns, Age 18 - 58
5AZ3	Weighted FIM Motor score 13-18, All other impairments, Age >= 79
5AZ4	Weighted FIM Motor score 13-18, All other impairments, Age 18 - 78


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