

AROC Impairment Specific Report

Brain Injury Report

INPATIENT – PATHWAY 3

July 2023 – June 2024

Anywhere Hospital



**Australasian
Faculty of
Rehabilitation
Medicine**



**UNIVERSITY
OF WOLLONGONG
AUSTRALIA**

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What's new in this report?



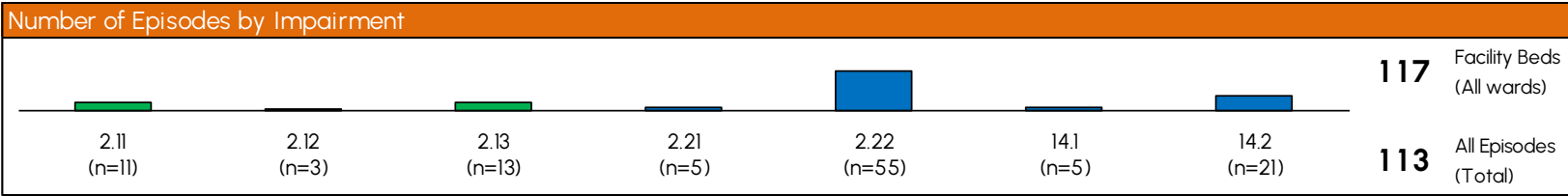
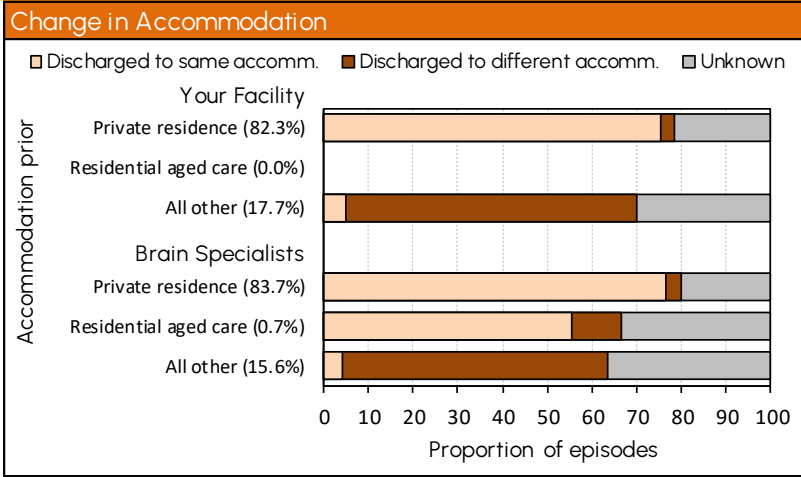
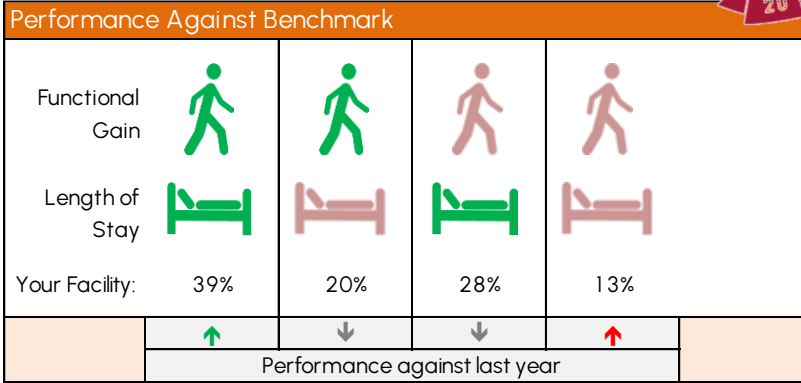
AN-SNAP Changes

- This AROC report uses the Australian National Sub-Acute and Non-Acute Patient (AN-SNAP) Version 5 Classification, introduced by the Independent Hospital and Aged Care Pricing Authority (IHACPA) in July 2022.
- Like previous AN-SNAP classification versions, Version 5 uses impairment, age, weighted FIM motor admission score and FIM cognition score to determine which rehabilitation class an episode should be assigned to. AN-SNAP Version 5 has 48 inpatient admitted overnight adult classes (the full list of classes can be found in Appendix 3).
- Information about how the AN-SNAP class has changed since Version 4 and a description of Impairment specific weighted FIM scores can be found in Appendix 1. Further information about AN-SNAP Version 5 is available on the IHACPA and AROC websites.

What does using AN-SNAP V5 mean for this report?

- **DASHBOARD:** Where you are positioned in the quadrant graph from 2022 onwards is based on V5 casemix-adjusted data, however comparison data from years prior to 2022 uses V4 casemix-adjusted data.
- **OUTCOMES ANALYSIS:** All years' data presented in time-series analysis is casemix-adjusted using AN-SNAP V5 with 2024 as the base year.


Brain Injury Dashboard



Brain Injury Dashboard

Key Indicators*	
Your Facility	Brain Specialists
Average Age: 48.7	Average Age: 47.8
Mortality Rate: 0.0%	Mortality Rate: 0.2%
% with at least one comorbidity: 56%	% with at least one comorbidity: 43%
% with at least one complication: 38%	% with at least one complication: 37%
% episodes with start delays: 36%	% episodes with start delays: 34%
Days between onset and rehab episode: 31.1	Days between onset and rehab episode: 32.2
Days between clinically rehab ready & start date: 3.0	Days between clinically rehab ready & start date: 3.1

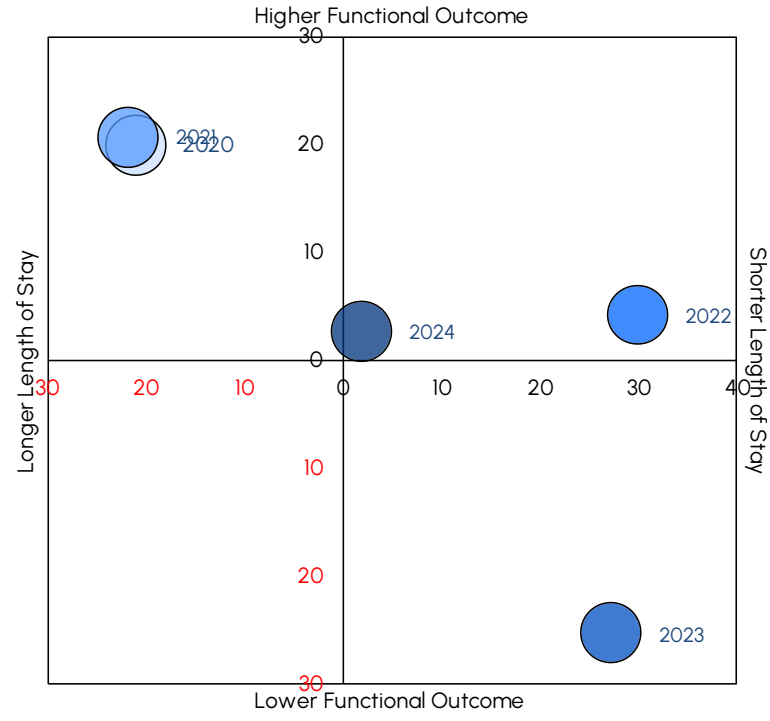
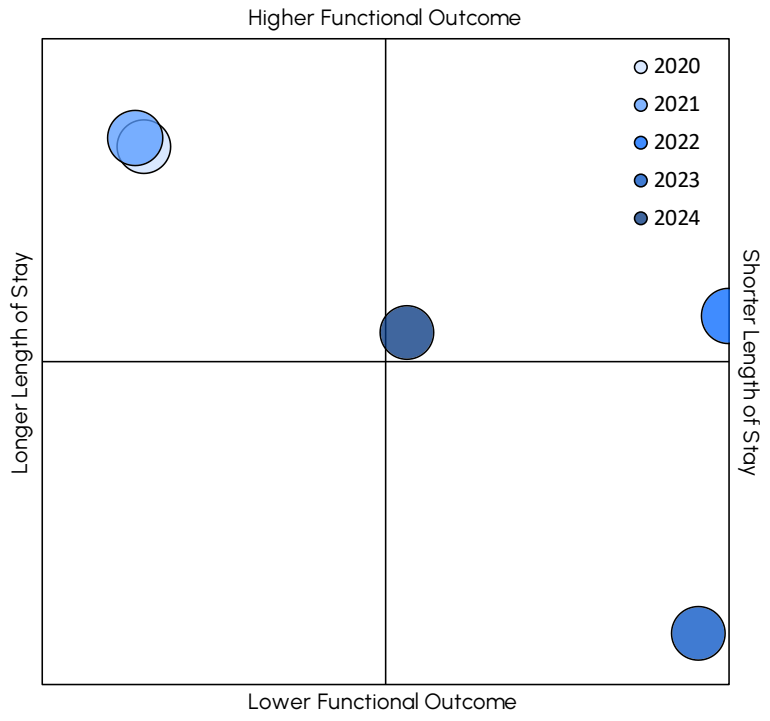
* Mean value provided unless otherwise specified

Facility FIM Training*	
FIM Credentialed Staff per 100 Episodes	FIM Credentialed Facility Trainers
 11.7 Your Facility	3 Your Facility
 17.7 Brain Specialists (Mean)	2 AROC Suggested Minimum

* This includes all impairments from all wards



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.

Data used in this report

- Brain injury episodes discharged during the reporting period (July 2023 – June 2024) and time series data covering five years.
- Benchmark group is first admission episodes at SPECIALIST brain injury units in Australia and New Zealand.
- Casemix analysis uses version 5 AN-SNAP classes (Appendix 3). This has been calculated separately for traumatic and non-traumatic episodes since FY2017.
- Data is summarised for your facility, all SPECIALIST and all NON-SPECIALIST services. Where data is provided by specialist facility your facility code is .
- 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.

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. See COVID-19 in Appendix 1 glossary for information about the collection of data for COVID patients.

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.

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

Traumatic

- 2.21 – Brain Dysfunction, Open injury
- 2.22 – Brain Dysfunction, Closed injury
- 14.1 – Major Multiple Trauma, Brain + spinal cord injury
- 14.2 – Major Multiple Trauma, Brain + multi fracture/amputation

Non-traumatic

- 2.11 – Brain Dysfunction, Sub-arachnoid haemorrhage
- 2.12 – Brain Dysfunction, Anoxic brain damage
- 2.13 – Brain Dysfunction, Other non-traumatic brain dysfunction

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

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

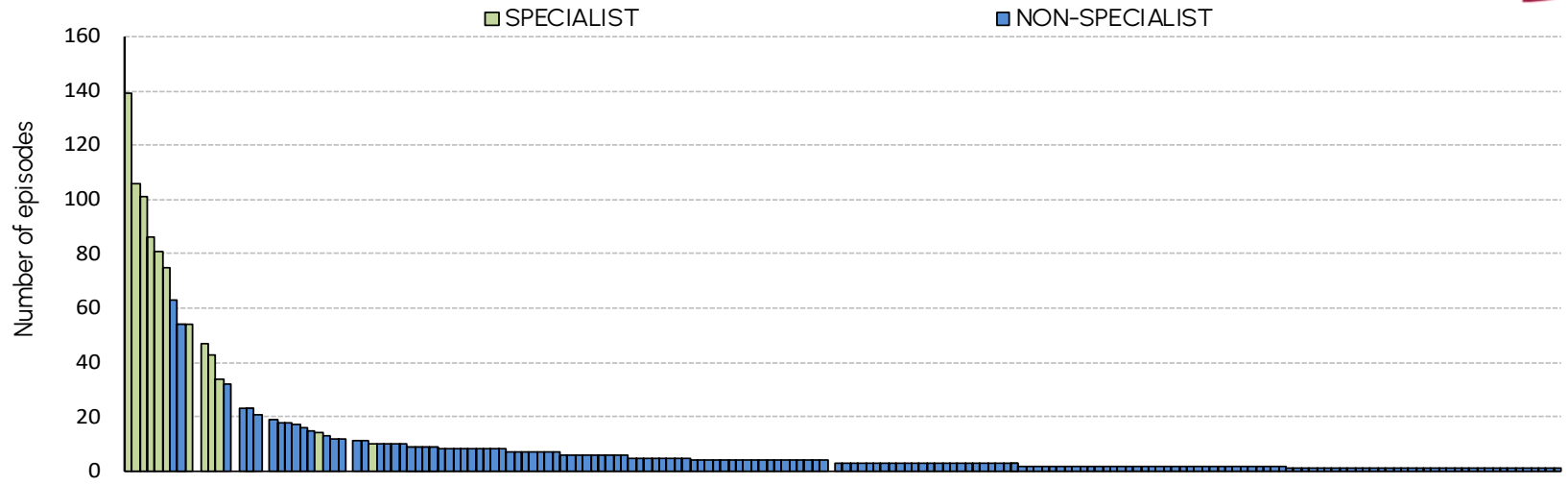
- 5AB1 – Brain dysfunction, FIM Cognition 27 - 35 Weighted FIM Motor 59 - 91
- 5AB2 – Brain dysfunction, FIM Cognition 27 - 35 Weighted FIM Motor 19 - 58
- 5AB3 – Brain dysfunction, FIM Cognition 19 - 26 Weighted FIM Motor 50 - 91
- 5AB4 – Brain dysfunction, FIM Cognition 19 - 26 Weighted FIM Motor 19 - 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
- 5AP1 – Major Multiple Trauma, weighted FIM motor 51-91
- 5AP2 – Major Multiple Trauma, weighted FIM motor 19-50
- 5AZ1 – Weighted FIM Motor score 13-18, Brain, Spine, MMT, Burns, Age \geq 59
- 5AZ2 – Weighted FIM Motor score 13-18, Brain, Spine, MMT, Burns, Age 18 - 58

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

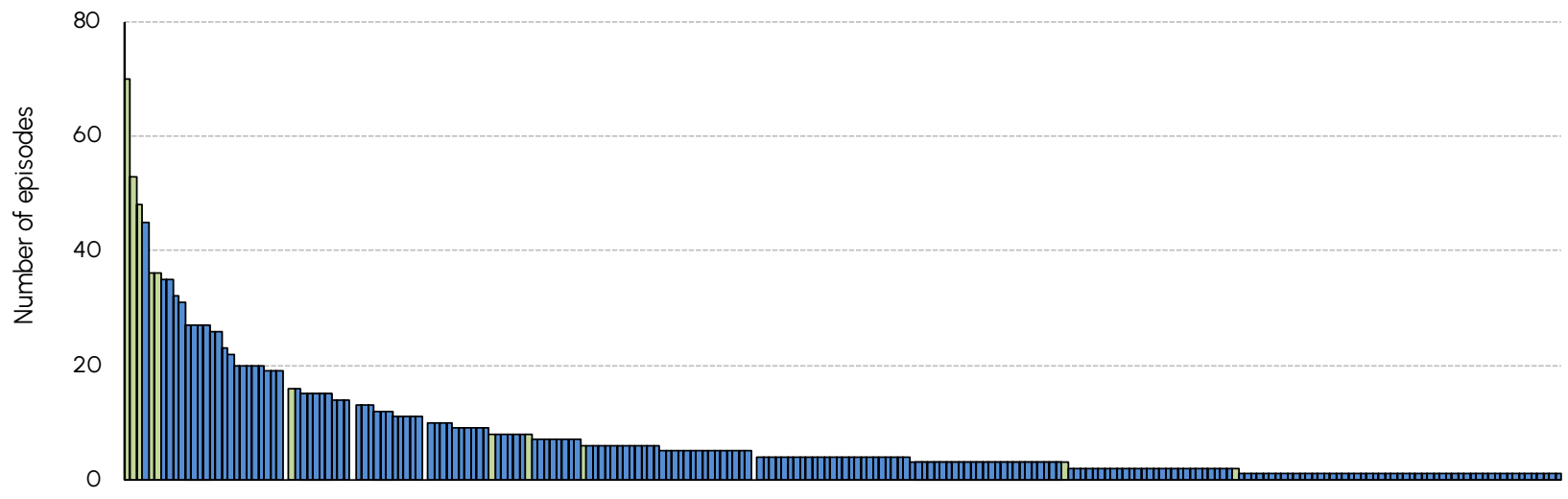


The BIG Picture

Volume of episodes by facilities treating brain injury

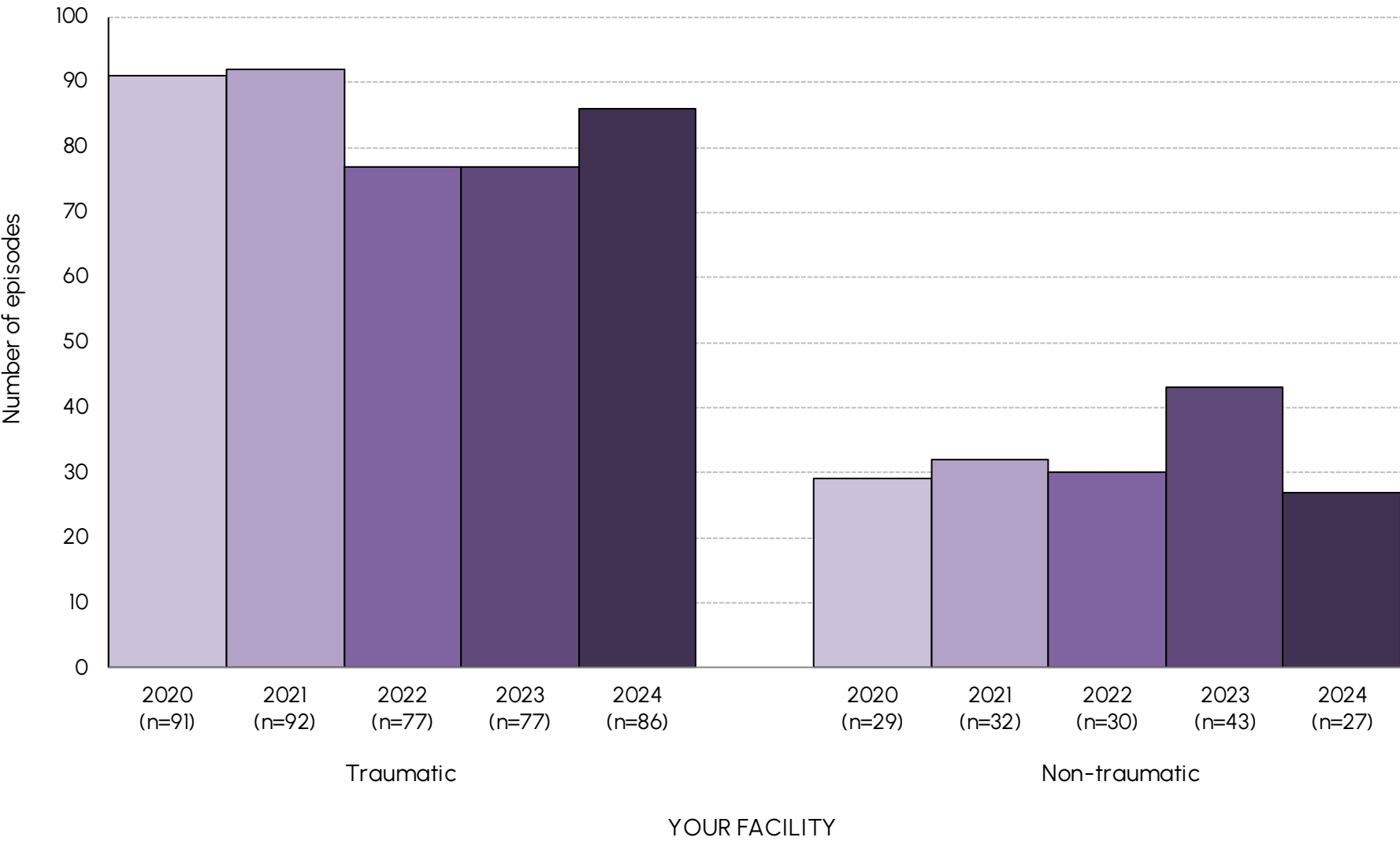


All AROC facilities - Traumatic episodes

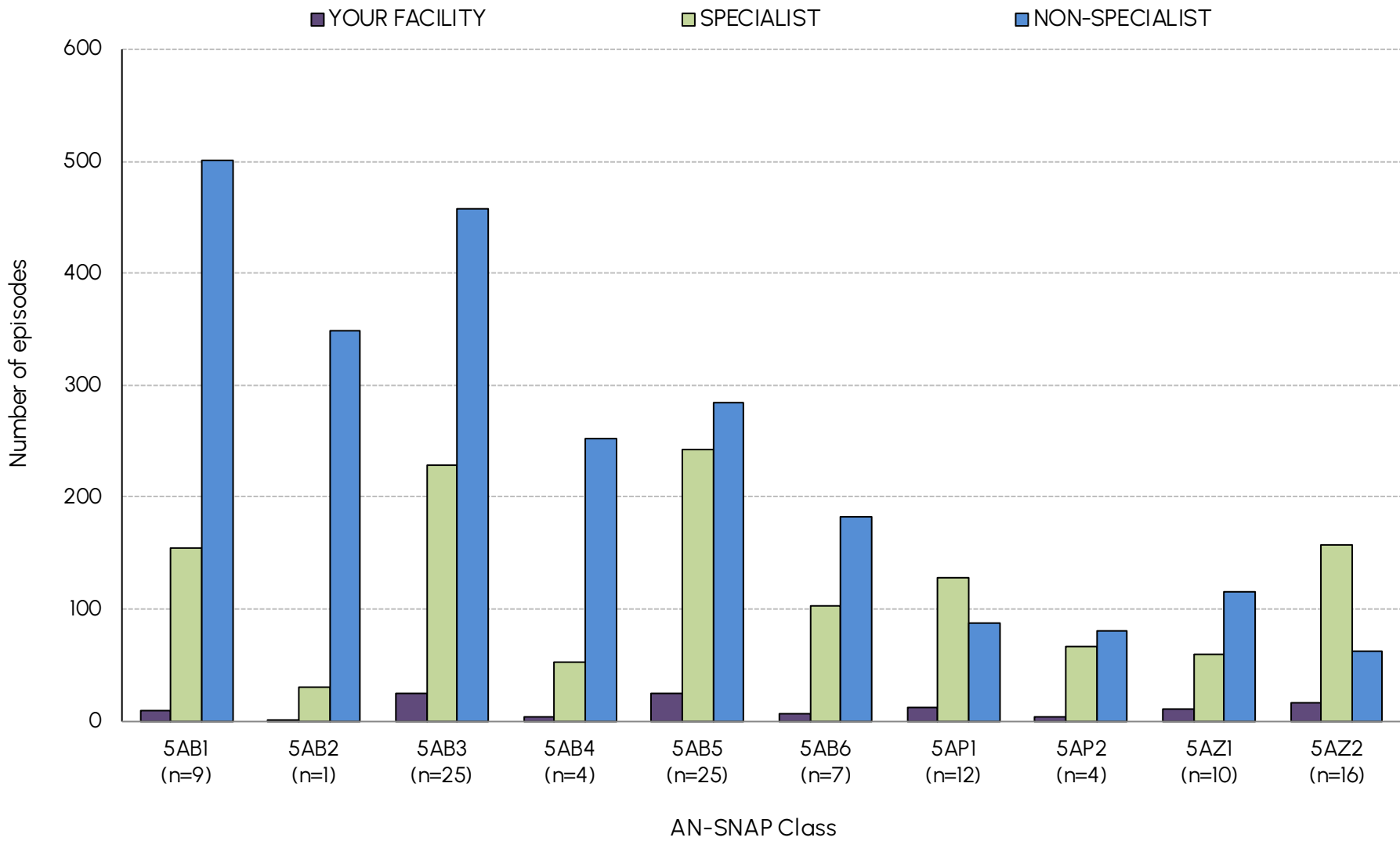


All AROC facilities - Non traumatic episodes

Number of traumatic and non-traumatic episodes over time at your facility



Number of episodes by AN-SNAP class

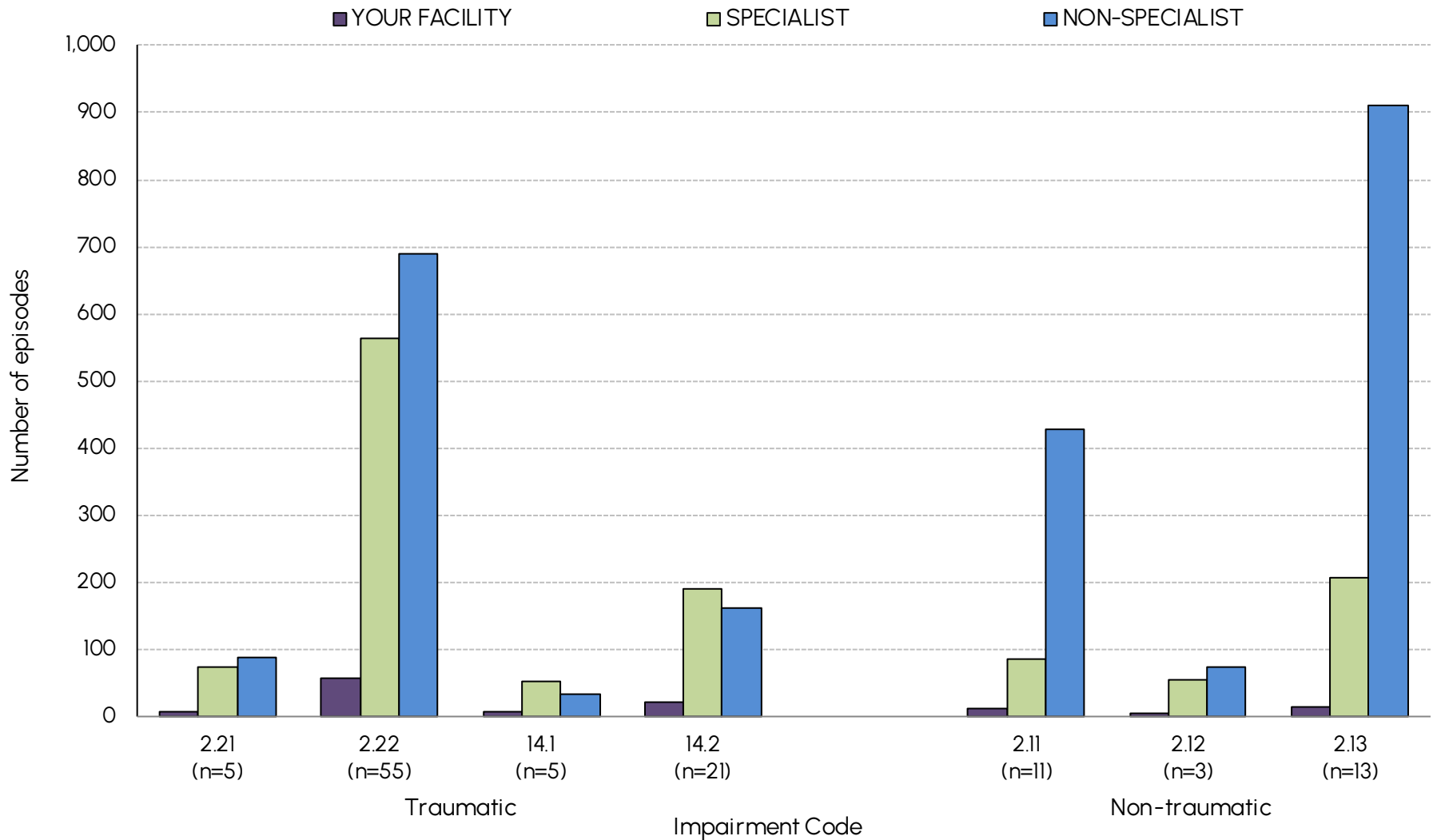


Number of episodes by AN-SNAP class

AN-SNAP class	YOUR FACILITY		SPECIALIST		NON-SPECIALIST	
	No.	%	No.	%	No.	%
5AB1 (BI, weighted FIM motor 59-91, FIM cog 27-35)	9	8.0	154	12.6	501	21.1
5AB2 (BI, weighted FIM motor 19-58, FIM cog 27-35)	1	0.9	30	2.5	349	14.7
5AB3 (BI, weighted FIM motor 50-91, FIM cog 19-26)	25	22.1	228	18.7	458	19.3
5AB4 (BI, weighted FIM motor 19-49, FIM cog 19-26)	4	3.5	53	4.3	253	10.7
5AB5 (BI, weighted FIM motor 39-91, FIM cog 5-18)	25	22.1	242	19.8	284	12.0
5AB6 (BI, weighted FIM motor 19-38, FIM cog 5-18)	7	6.2	103	8.4	183	7.7
5AP1 (MMT, weighted FIM motor 51-91)	12	10.6	128	10.5	88	3.7
5AP2 (MMT, weighted FIM motor 19-50)	4	3.5	67	5.5	80	3.4
5AZ1 (BI or MMT, age ≥ 59, weighted FIM motor 13-18)	10	8.8	59	4.8	115	4.8
5AZ2 (BI or MMT, age ≤ 58, weighted FIM motor 13-18)	16	14.2	157	12.9	62	2.6
All Brain AN-SNAP classes	113	100.0	1,221	100.0	2,373	100.0

Note: 0 episode(s) at YOUR FACILITY, 0 episode(s) at SPECIALIST facilities and 6 episode(s) at NON-SPECIALIST facilities had an AN-SNAP class of 599A.

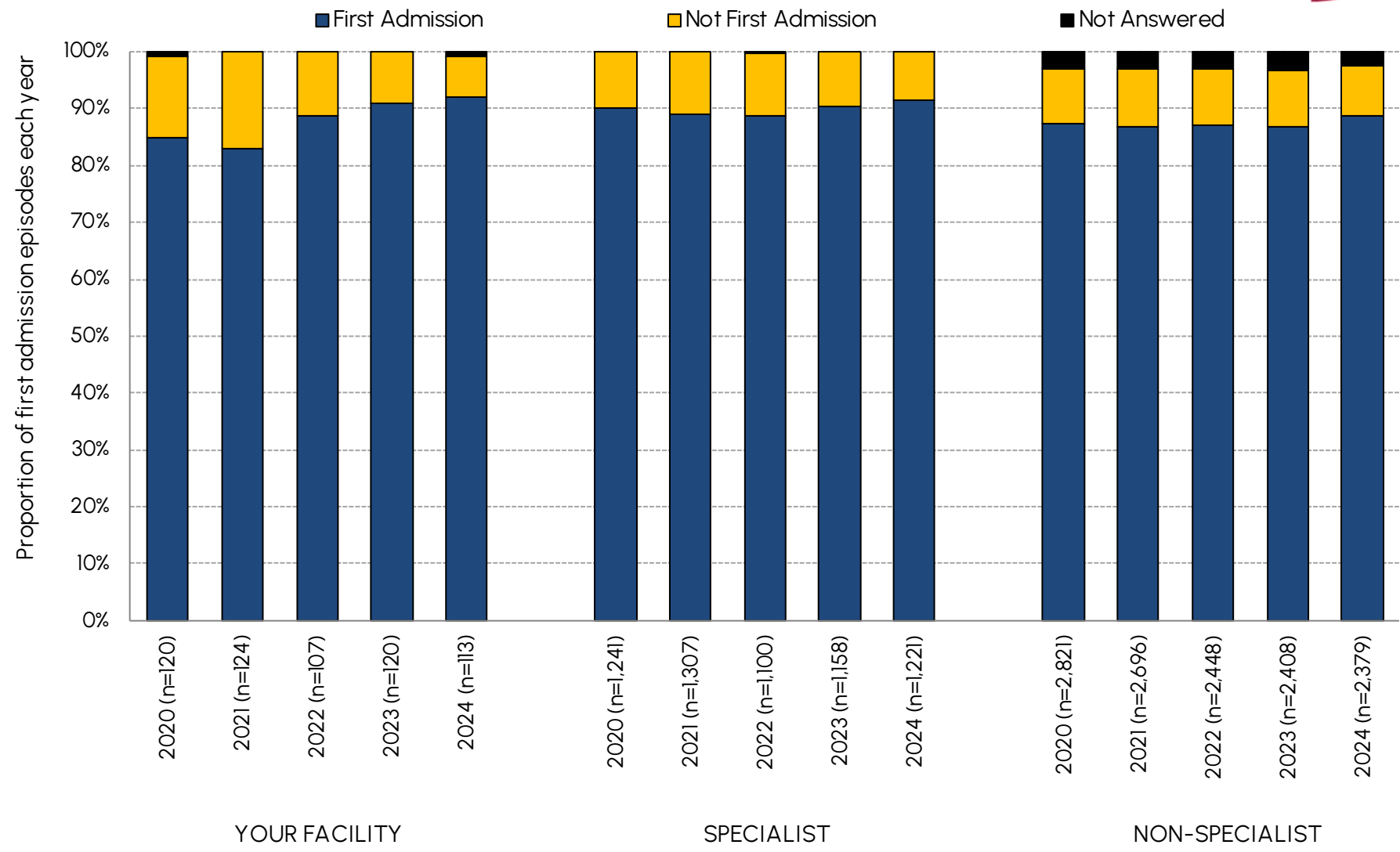
Number of traumatic and non-traumatic episodes by impairment



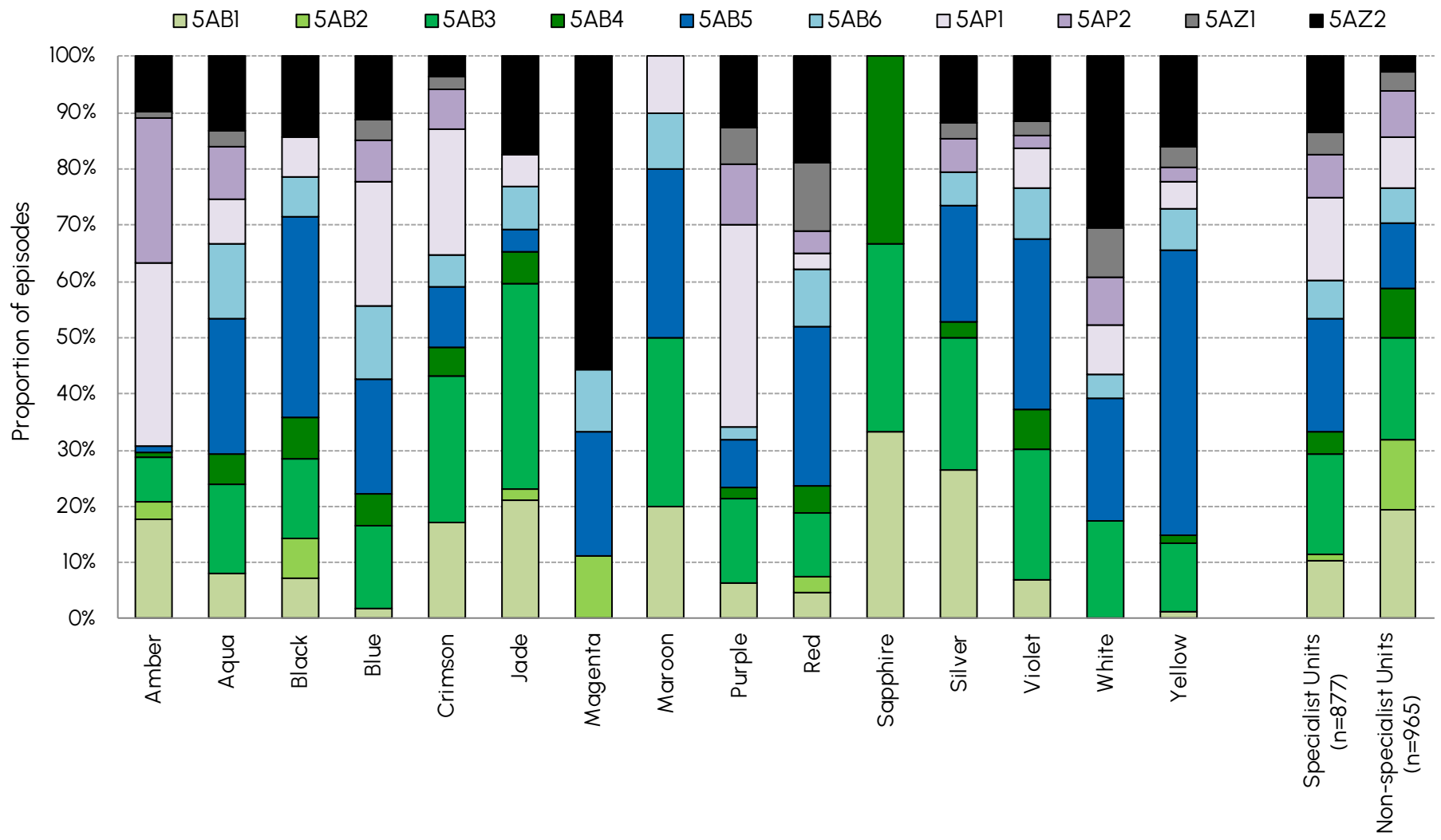
Number of traumatic and non-traumatic episodes by impairment

Impairment	YOUR FACILITY		SPECIALIST		NON-SPECIALIST	
	No.	%	No.	%	No.	%
<u>Traumatic impairments</u>						
2.21 Open injury	5	5.8	72	8.2	86	8.9
2.22 Closed injury	55	64.0	564	64.3	690	71.3
14.1 MMT: brain+spine	5	5.8	52	5.9	32	3.3
14.2 MMT: brain+other	21	24.4	189	21.6	160	16.5
Total TBI	86	100.0	877	100.0	968	100.0
<u>Non-traumatic impairments</u>						
2.11 Sub-arachnoid haemorrhage	11	40.7	85	24.7	428	30.3
2.12 Anoxic brain damage	3	11.1	54	15.7	73	5.2
2.13 Other NTBI	13	48.1	205	59.6	910	64.5
Total NTBI	27	100.0	344	100.0	1,411	100.0
Total BI	113		1,221		2,379	

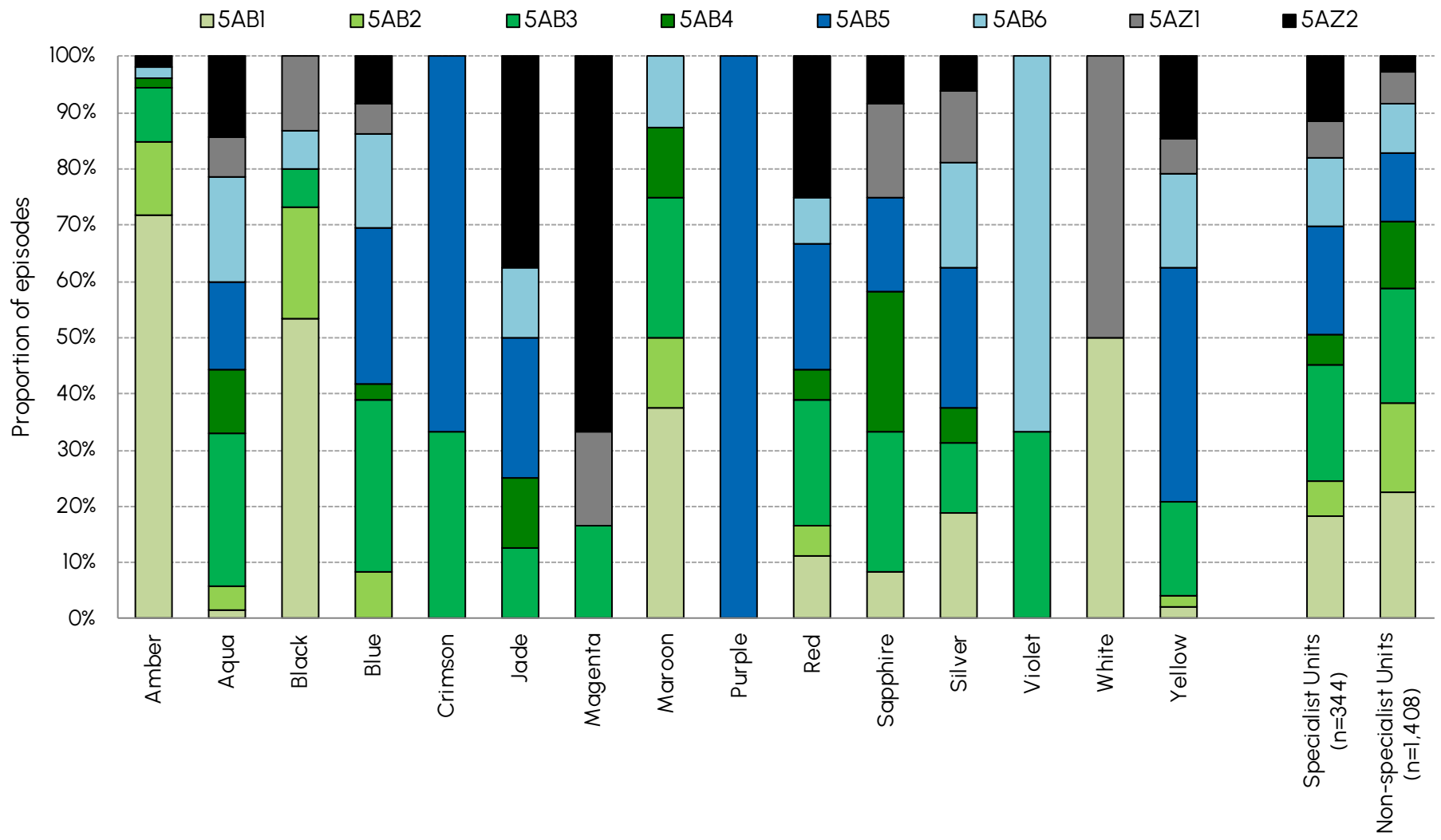
Proportion of first admission episodes over time



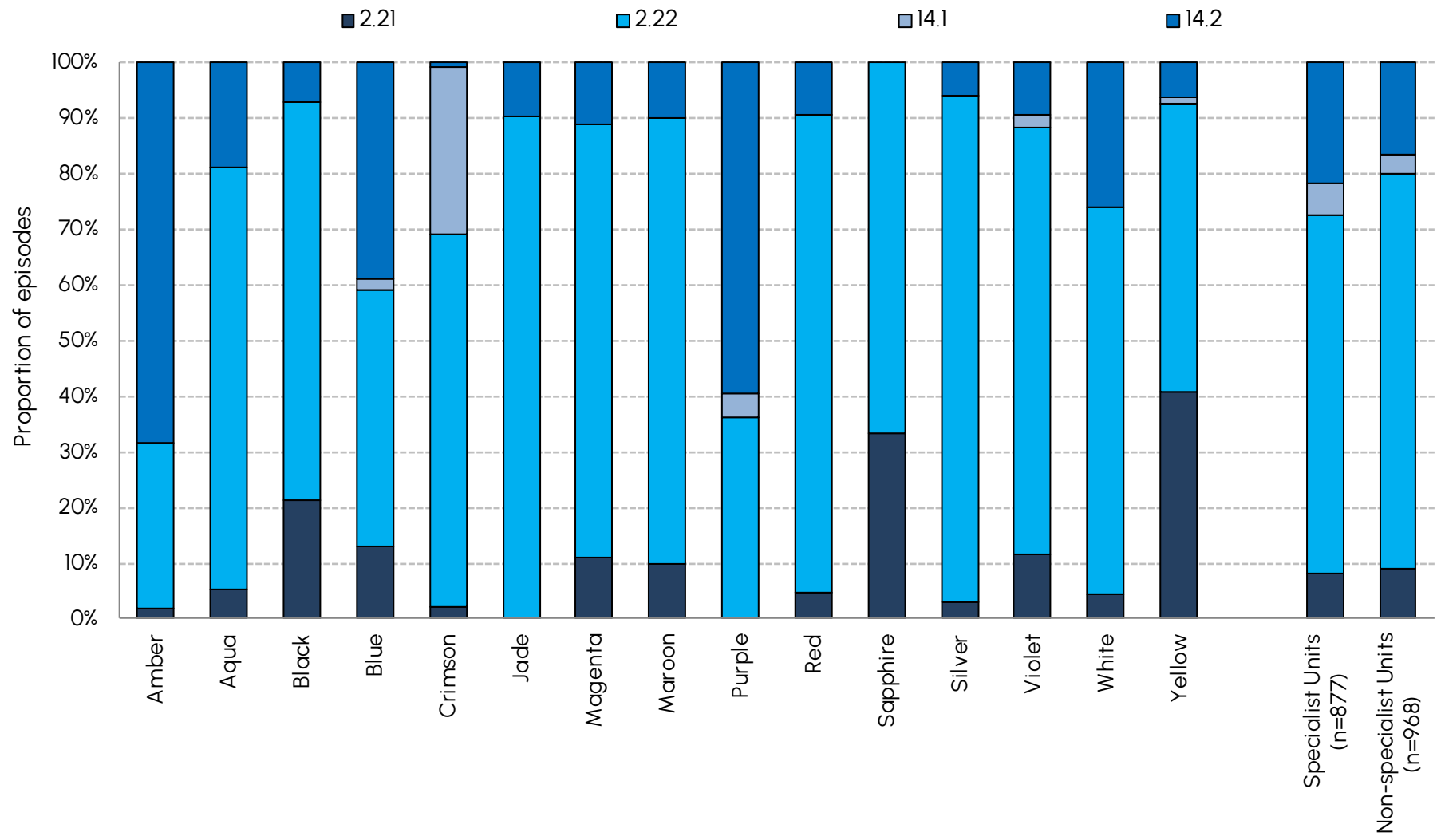
Proportion of traumatic episodes by AN-SNAP class and specialist facility



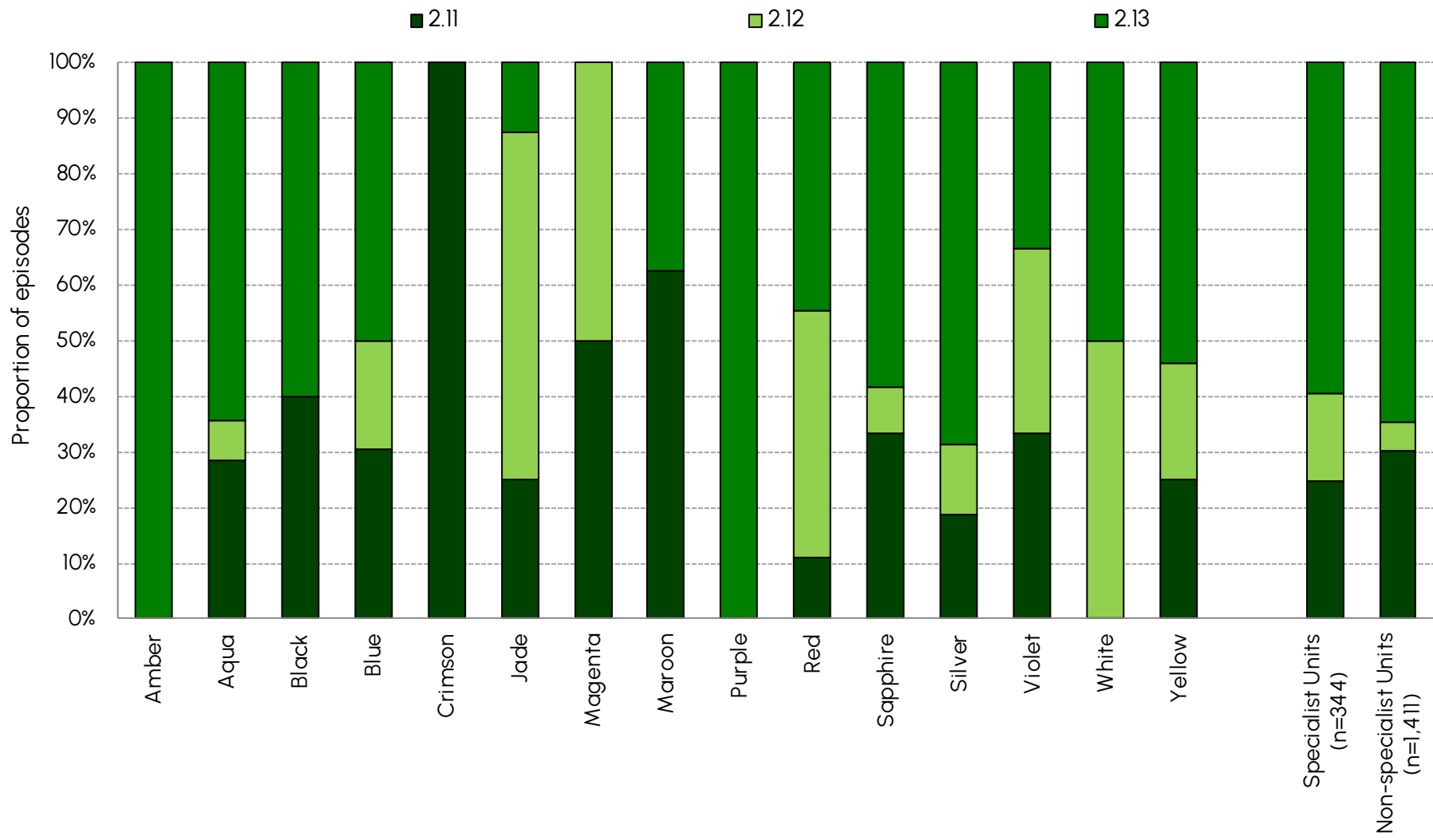
Proportion of non-traumatic episodes by AN-SNAP class and specialist facility



Proportion of traumatic episodes by impairment and specialist facility



Proportion of non-traumatic episodes by impairment and specialist facility



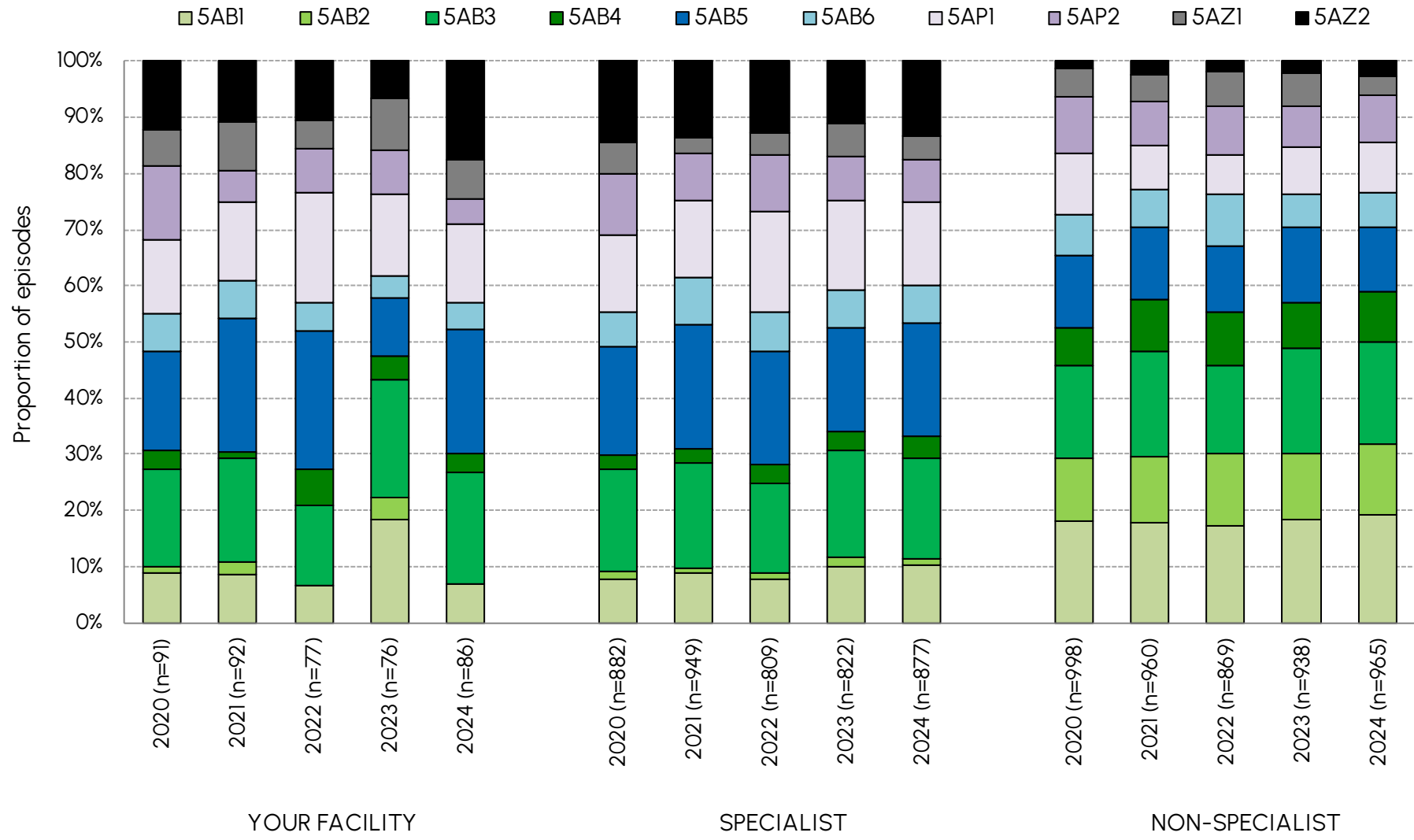
Traumatic and non-traumatic episodes by impairment and AN-SNAP class

Traumatic	YOUR FACILITY										NON-		
Impairment	5AB1	5AB2	5AB3	5AB4	5AB5	5AB6	5AP1	5AP2	5AZ1	5AZ2	Total	SPECIALIST	SPECIALIST
2.21 Open injury	1	0	0	1	2	0	0	0	1	0	5	72	86
2.22 Closed injury	5	0	17	2	17	4	0	0	3	7	55	564	689
14.1 MMT: brain+spine	0	0	0	0	0	0	4	1	0	0	5	52	32
14.2 MMT: brain+other	0	0	0	0	0	0	8	3	2	8	21	189	158
Total	6	0	17	3	19	4	12	4	6	15	86	877	965
SPECIALIST	91	9	157	34	176	61	128	67	37	117	877		
NON-SPECIALIST	186	122	174	86	112	58	88	80	34	25	965		

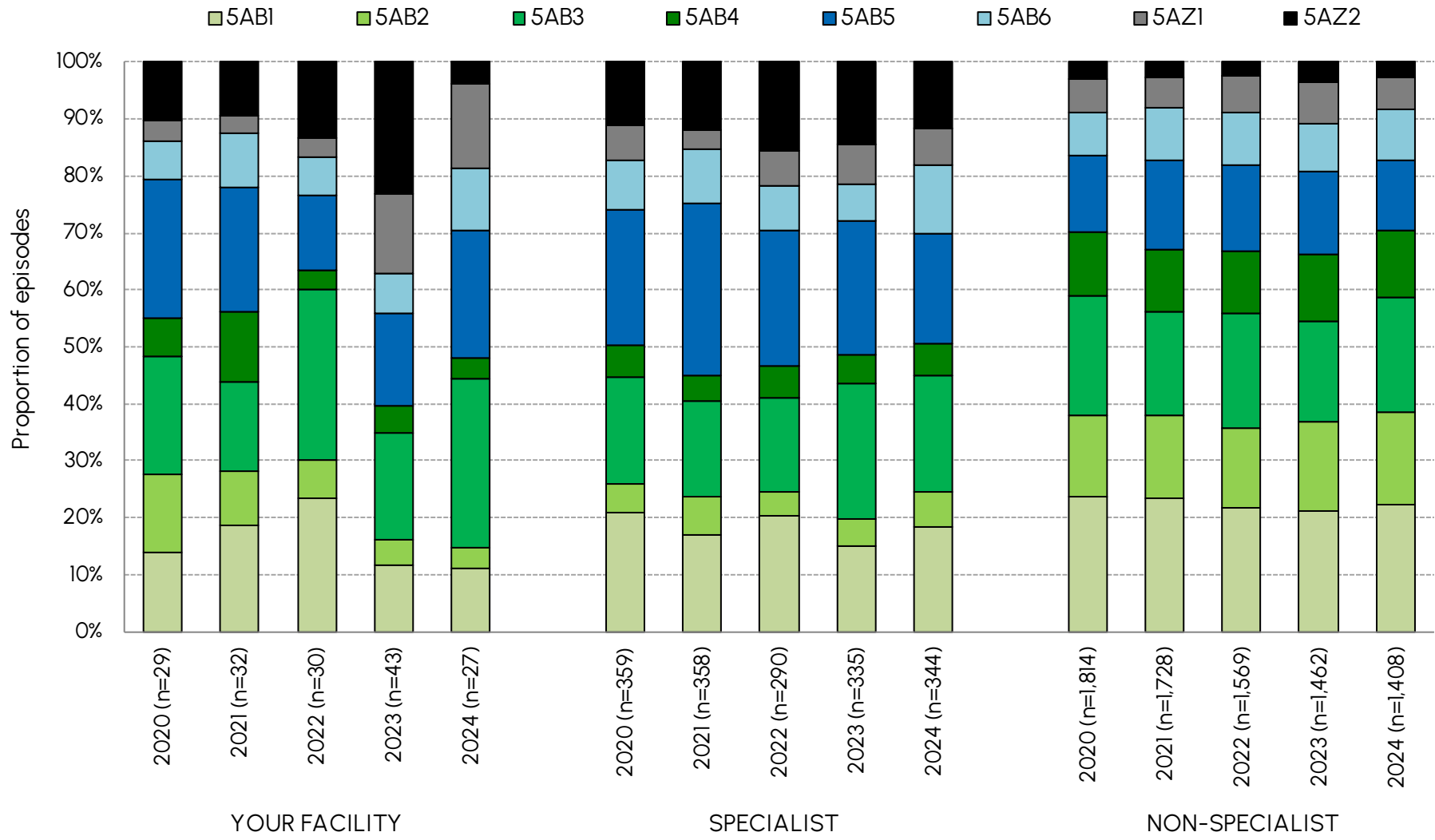
Non-traumatic	YOUR FACILITY								NON-		
Impairment	5AB1	5AB2	5AB3	5AB4	5AB5	5AB6	5AZ1	5AZ2	Total	SPECIALIST	SPECIALIST
2.11 Sub-arachnoid haemorrhage	1	0	3	0	3	1	2	1	11	85	428
2.12 Anoxic brain damage	0	0	2	0	1	0	0	0	3	54	73
2.13 Other NTBI	2	1	3	1	2	2	2	0	13	205	907
Total	3	1	8	1	6	3	4	1	27	344	1,408
SPECIALIST	63	21	71	19	66	42	22	40	344		
NON-SPECIALIST	315	227	284	167	172	125	81	37	1,408		

Note: 0 episode(s) at YOUR FACILITY, 0 episode(s) at SPECIALIST facilities and 6 episode(s) at NON-SPECIALIST facilities had an AN-SNAP class of 599A.

Proportion of traumatic episodes by AN-SNAP class over time



Proportion of non-traumatic episodes by AN-SNAP class over time

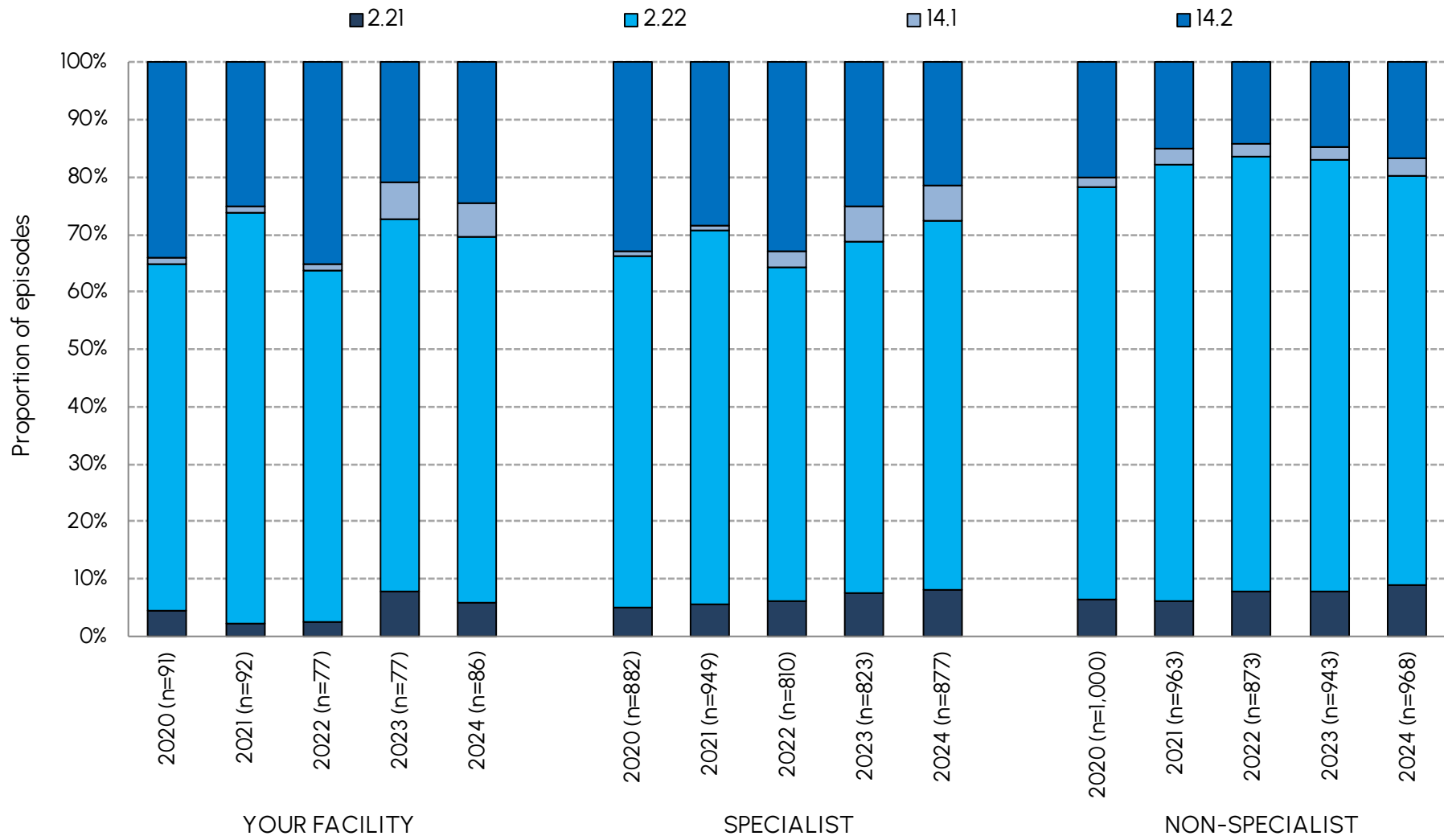


Traumatic and non-traumatic episodes by AN-SNAP class over time

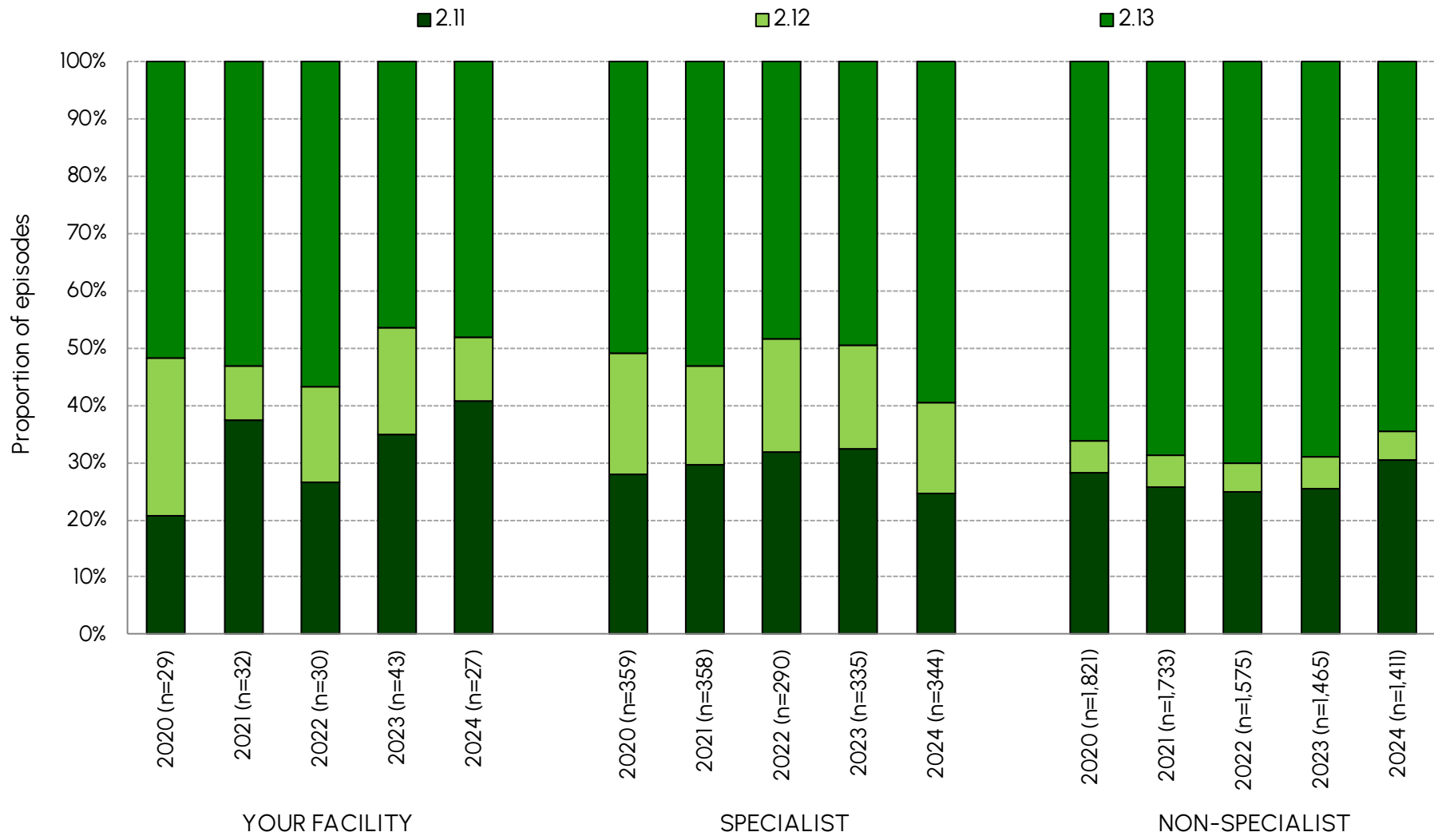
Traumatic AN-SNAP class	YOUR FACILITY					SPECIALIST					NON-SPECIALIST				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
5AB1 (Bl, weighted FIM motor 59-91, FIM cog 27-35)	8	8	5	14	6	69	85	63	81	91	180	170	151	172	186
5AB2 (Bl, weighted FIM motor 19-58, FIM cog 27-35)	1	2	0	3	0	11	8	8	14	9	113	115	112	112	122
5AB3 (Bl, weighted FIM motor 50-91, FIM cog 19-26)	16	17	11	16	17	161	176	129	158	157	164	180	134	175	174
5AB4 (Bl, weighted FIM motor 19-49, FIM cog 19-26)	3	1	5	3	3	22	24	28	26	34	68	88	84	76	86
5AB5 (Bl, weighted FIM motor 39-91, FIM cog 5-18)	16	22	19	8	19	171	212	162	152	176	128	123	102	127	112
5AB6 (Bl, weighted FIM motor 19-38, FIM cog 5-18)	6	6	4	3	4	54	78	57	56	61	73	65	80	54	58
5AP1 (MMT, weighted FIM motor 51-91)	12	13	15	11	12	120	131	145	131	128	107	75	60	79	88
5AP2 (MMT, weighted FIM motor 19-50)	12	5	6	6	4	97	79	82	65	67	101	76	76	67	80
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	6	8	4	7	6	49	28	31	47	37	52	46	53	55	34
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	11	10	8	5	15	128	128	104	92	117	12	22	17	21	25
All Brain AN-SNAP classes	91	92	77	76	86	882	949	809	822	877	998	960	869	938	965

Non-traumatic AN-SNAP class	YOUR FACILITY					SPECIALIST					NON-SPECIALIST				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
5AB1 (Bl, weighted FIM motor 59-91, FIM cog 27-35)	4	6	7	5	3	75	61	59	50	63	430	406	343	311	315
5AB2 (Bl, weighted FIM motor 19-58, FIM cog 27-35)	4	3	2	2	1	18	24	12	16	21	257	252	218	226	227
5AB3 (Bl, weighted FIM motor 50-91, FIM cog 19-26)	6	5	9	8	8	67	60	48	80	71	383	314	314	260	284
5AB4 (Bl, weighted FIM motor 19-49, FIM cog 19-26)	2	4	1	2	1	21	16	16	17	19	203	189	175	173	167
5AB5 (Bl, weighted FIM motor 39-91, FIM cog 5-18)	7	7	4	7	6	85	108	69	79	66	241	270	235	213	172
5AB6 (Bl, weighted FIM motor 19-38, FIM cog 5-18)	2	3	2	3	3	31	34	23	21	42	141	159	147	121	125
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	1	1	1	6	4	22	12	18	24	22	103	91	100	105	81
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	3	3	4	10	1	40	43	45	48	40	56	47	37	53	37
All Brain AN-SNAP classes	29	32	30	43	27	359	358	290	335	344	1,814	1,728	1,569	1,462	1,408

Proportion of traumatic episodes by impairment over time



Proportion of non-traumatic episodes by impairment over time

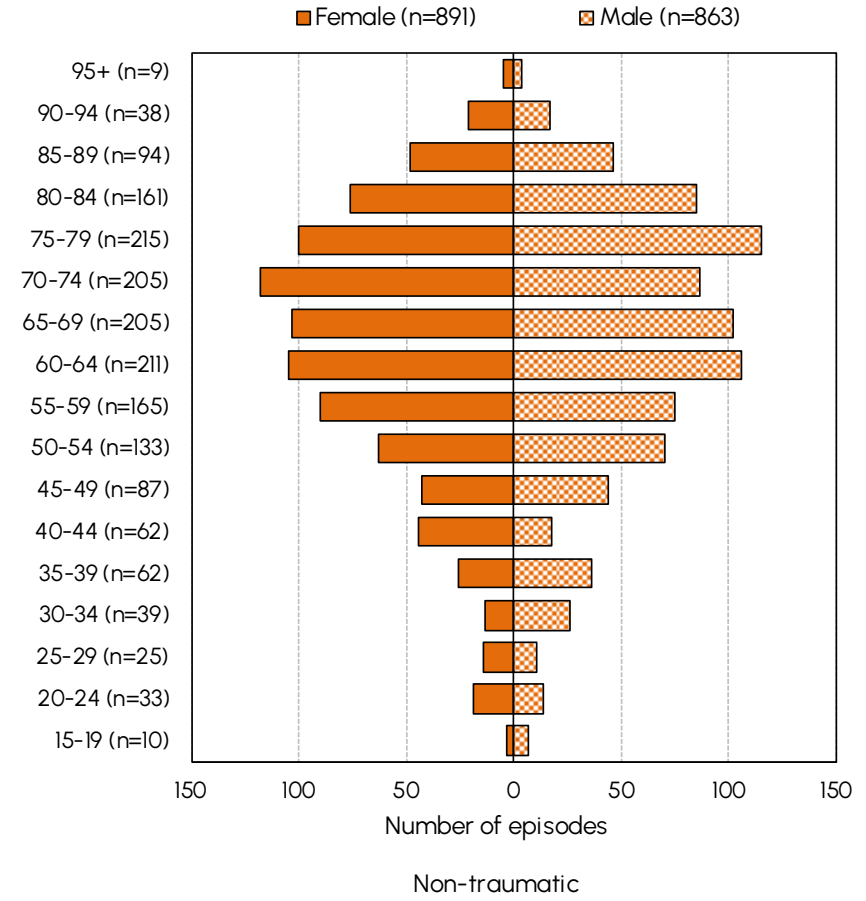
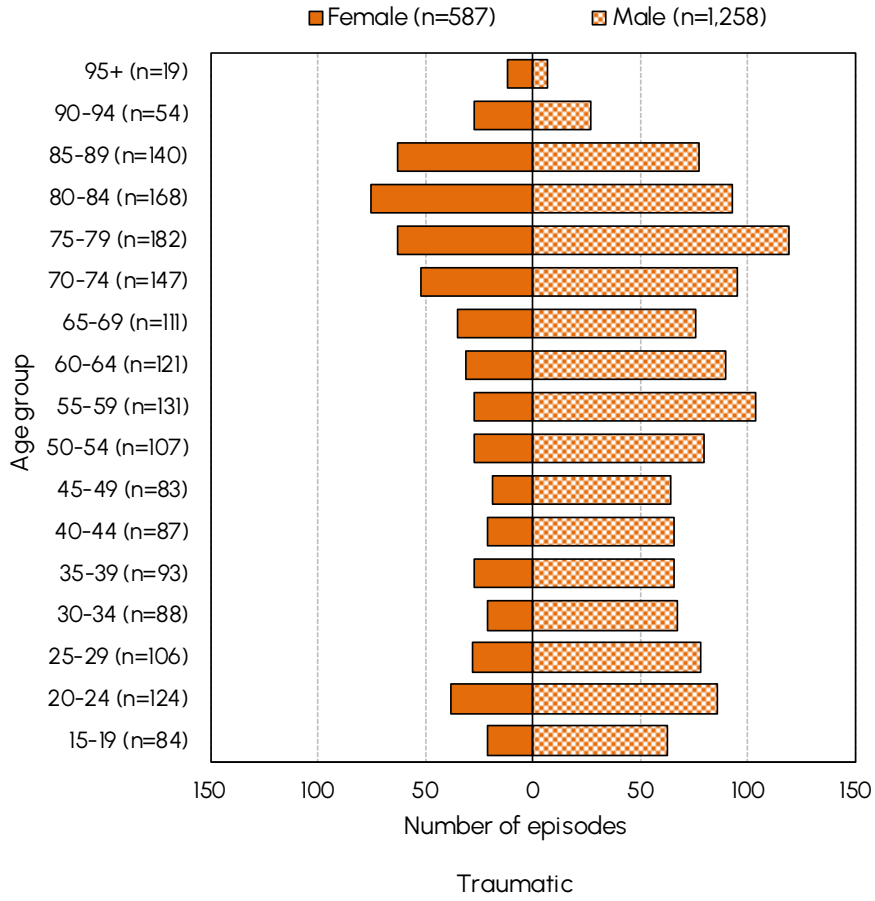


Traumatic and non-traumatic episodes by impairment over time

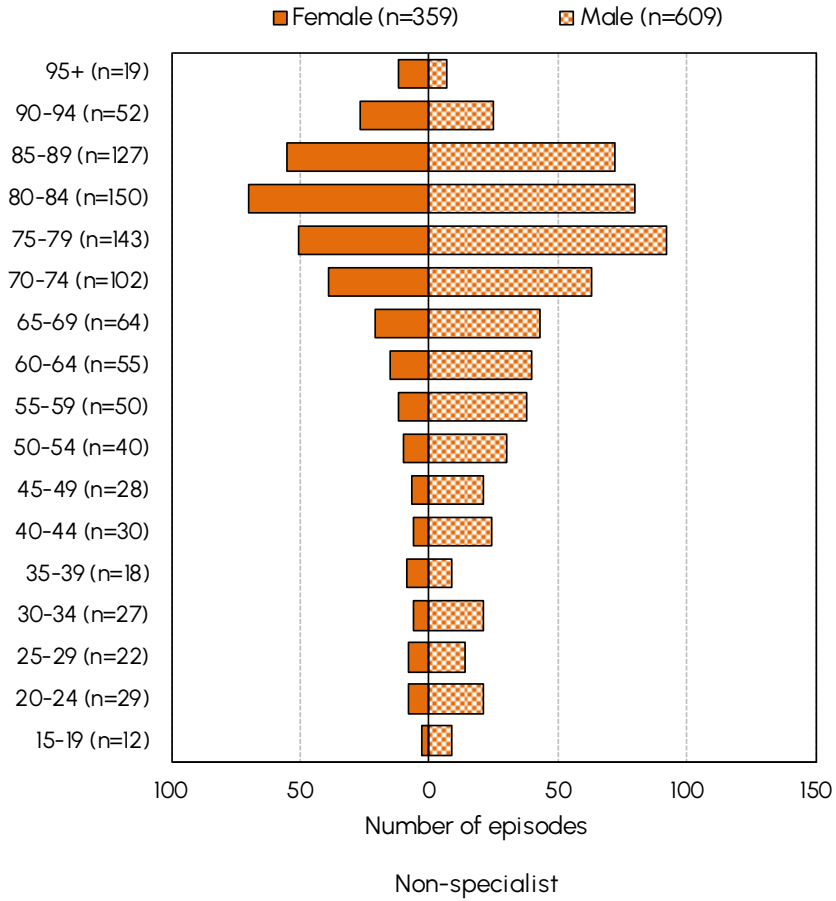
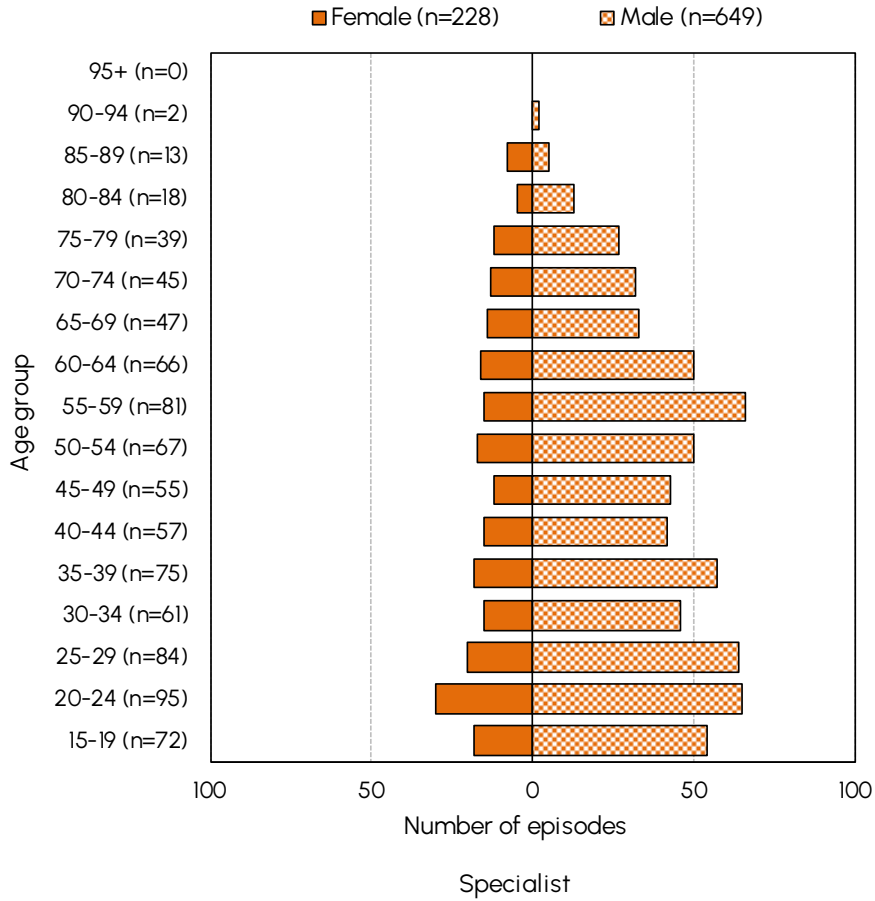


Impairment	YOUR FACILITY					SPECIALIST					NON-SPECIALIST				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
<u>Traumatic impairments</u>															
2.21 Open injury	4	2	2	6	5	44	53	49	63	72	65	58	69	75	86
2.22 Closed injury	55	66	47	50	55	541	619	473	504	564	719	735	661	708	690
14.1 MMT: brain+spine	1	1	1	5	5	8	8	21	50	52	15	25	19	21	32
14.2 MMT: brain+other	31	23	27	16	21	289	269	267	206	189	201	145	124	139	160
Total TBI	91	92	77	77	86	882	949	810	823	877	1,000	963	873	943	968
<u>Non-traumatic impairments</u>															
2.11 Sub-arachnoid haemorrhage	6	12	8	15	11	100	106	92	109	85	516	448	393	371	428
2.12 Anoxic brain damage	8	3	5	8	3	76	62	58	60	54	101	92	80	84	73
2.13 Other NTBI	15	17	17	20	13	183	190	140	166	205	1,204	1,193	1,102	1,010	910
Total NTBI	29	32	30	43	27	359	358	290	335	344	1,821	1,733	1,575	1,465	1,411
Total BI	120	124	107	120	113	1,241	1,307	1,100	1,158	1,221	2,821	2,696	2,448	2,408	2,379

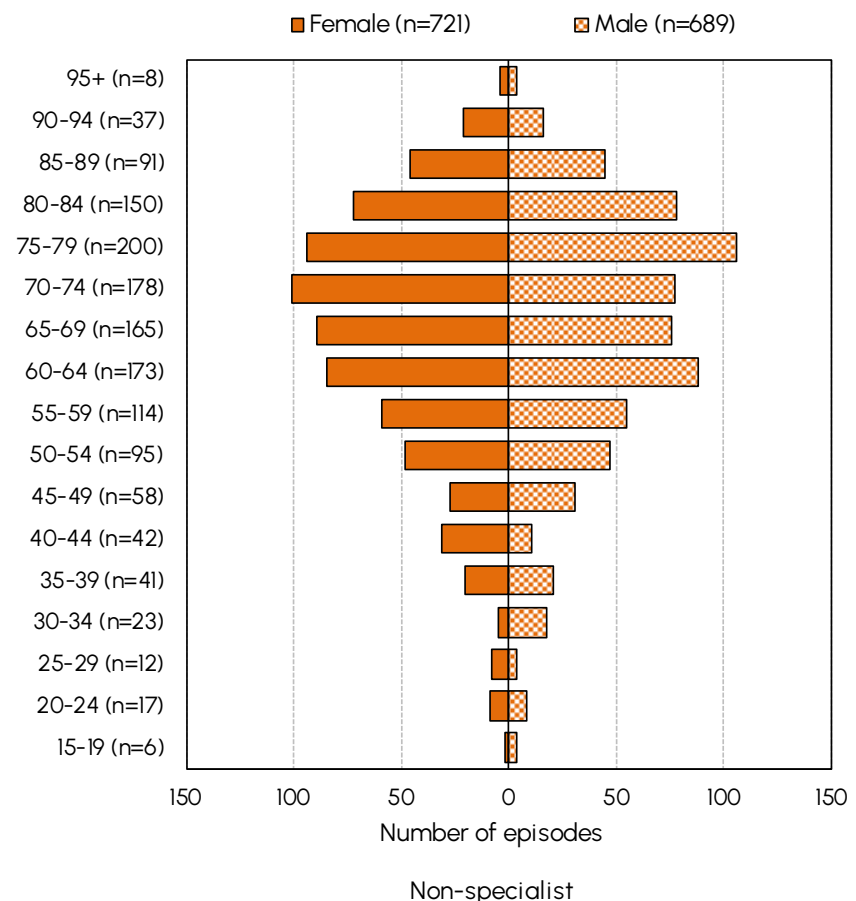
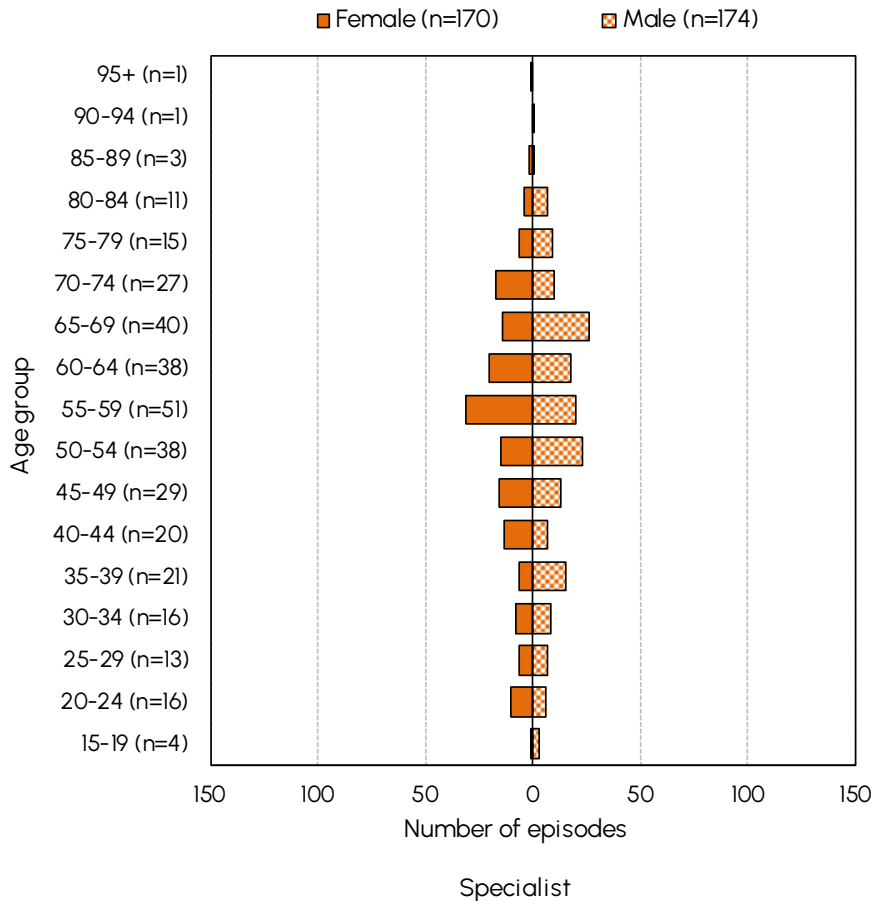
Number of episodes by age group and sex – TBI and NTBI



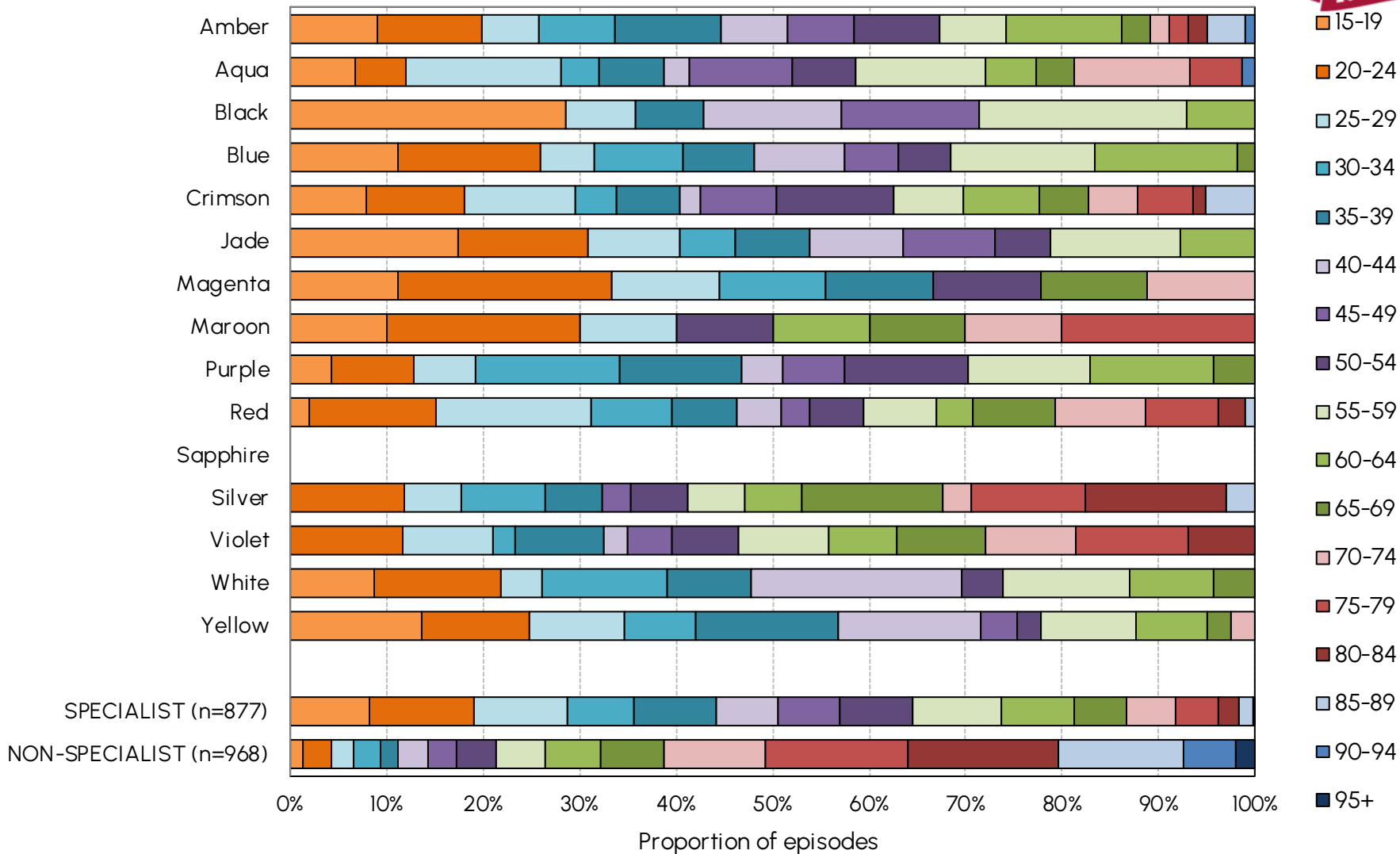
Number of TBI episodes by age group and sex – specialist and non-specialist



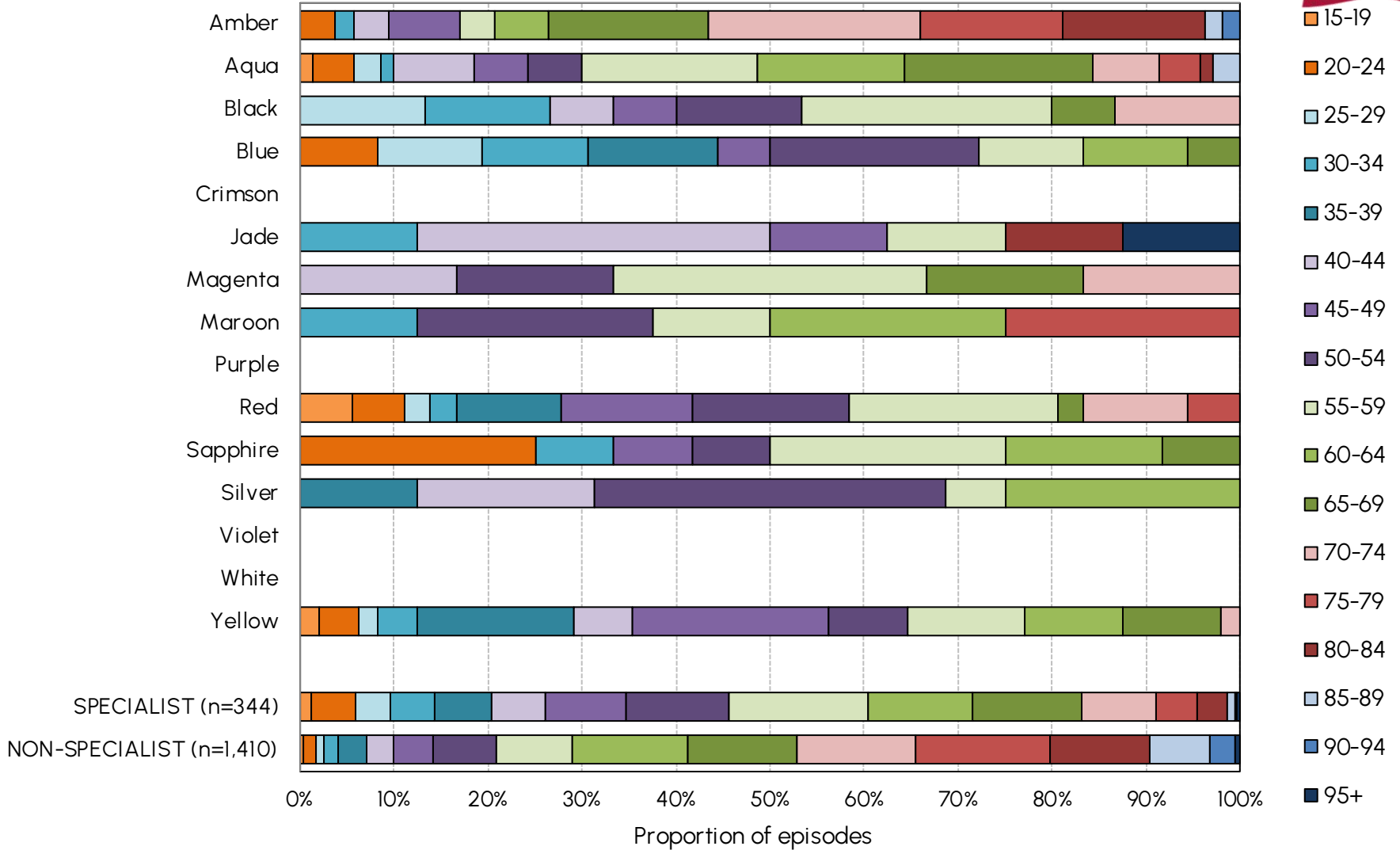
Number of NTBI episodes by age group and sex – specialist and non-specialist



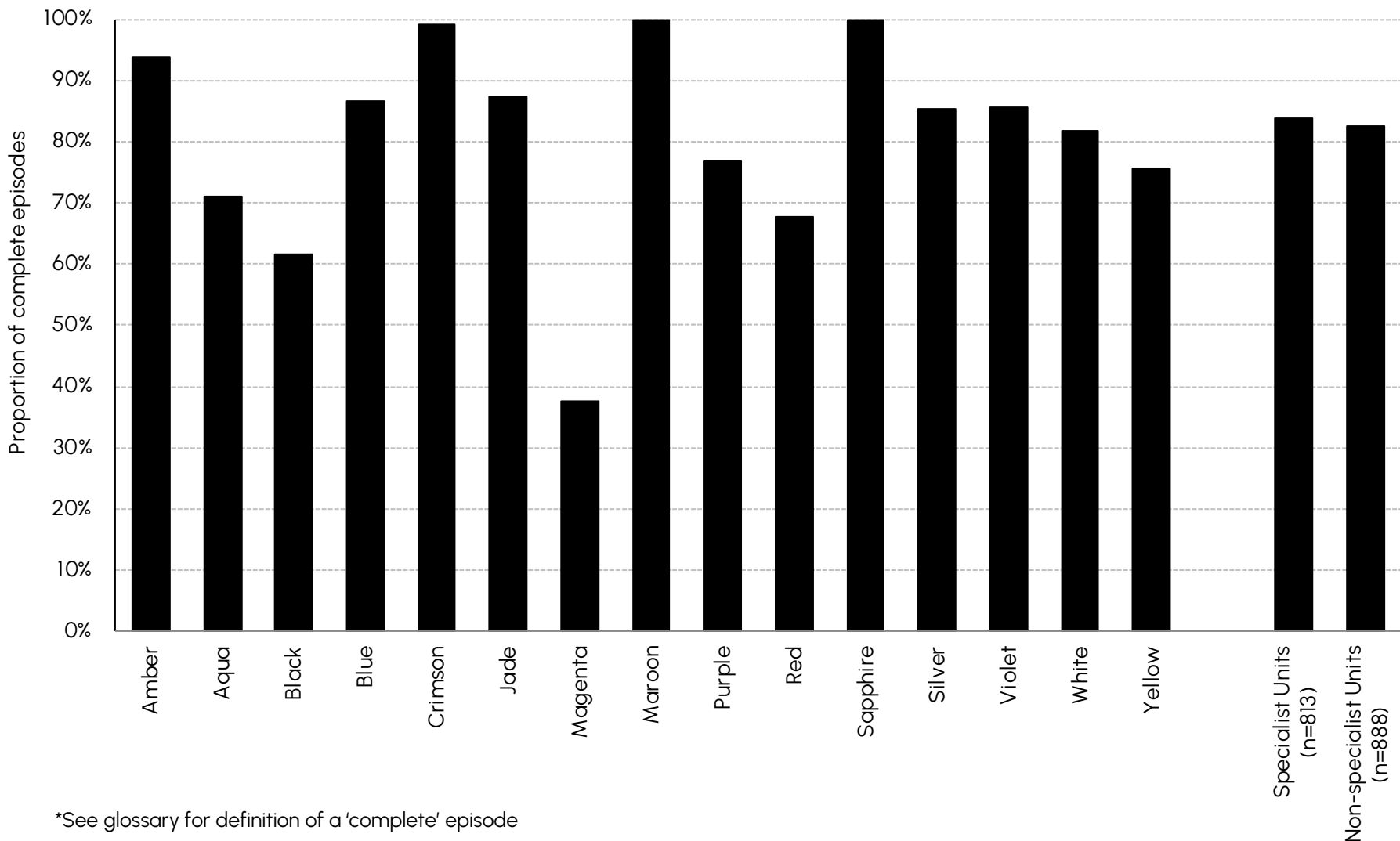
Traumatic episodes by age group and specialist facility



Non-traumatic episodes by age group and specialist facility

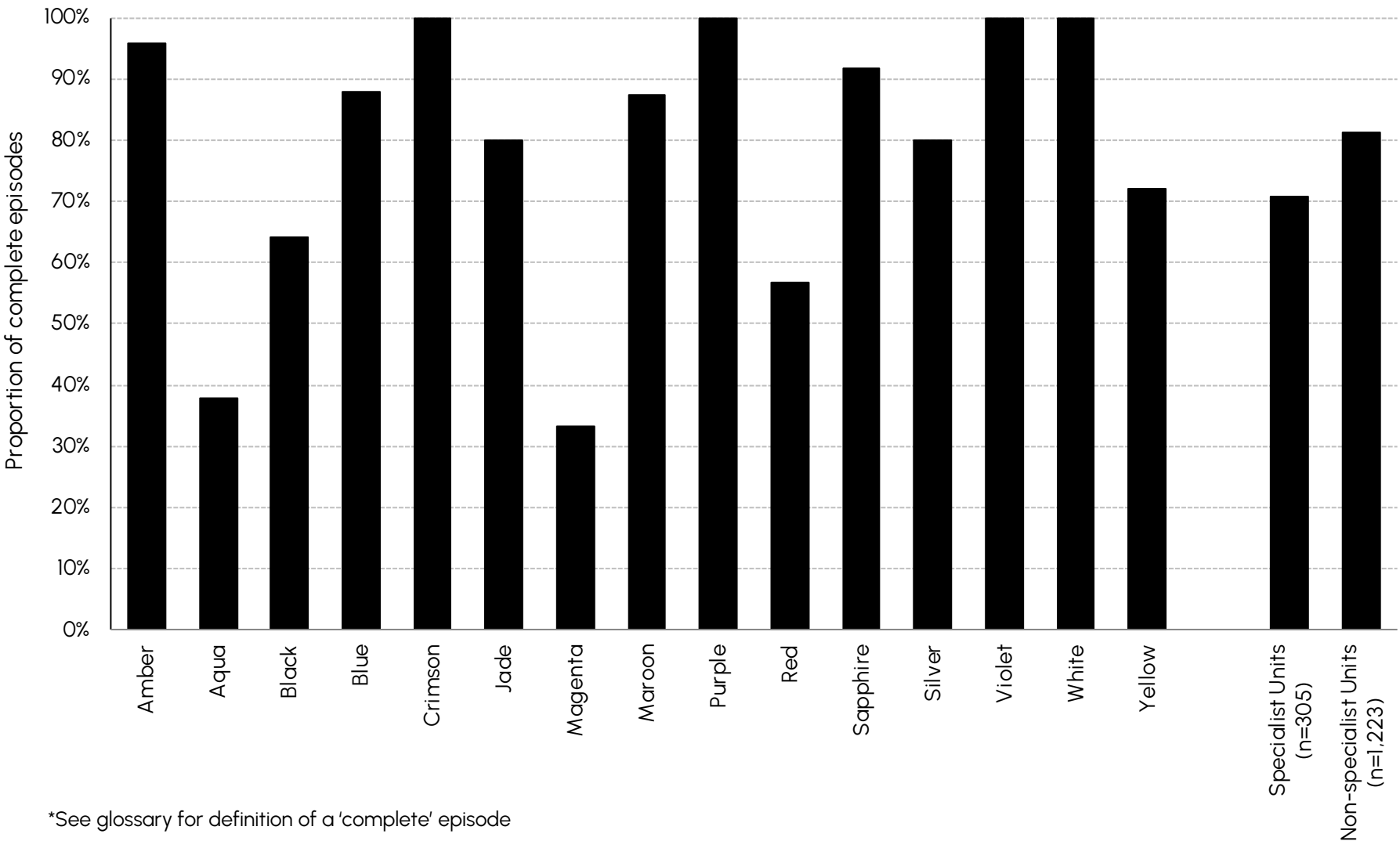


Proportion of complete* first admission traumatic episodes by specialist facility



*See glossary for definition of a 'complete' episode
 Note: First admission episodes.

Proportion of complete* first admission non-traumatic episodes by specialist facility



*See glossary for definition of a 'complete' episode
 Note: First admission episodes.

Complete first admission TBI and NTBI episodes by AN-SNAP class and impairment

AN-SNAP class	YOUR FACILITY			SPECIALIST			NON-SPECIALIST		
	All episodes	Completed episodes	%Complete	All episodes	Completed episodes	%Complete	All episodes	Completed episodes	%Complete
5AB1 (Bl, weighted FIM motor 59-91, FIM cog 27-35)	8	8	100.0	149	144	96.6	442	412	93.2
5AB2 (Bl, weighted FIM motor 19-58, FIM cog 27-35)	1	1	100.0	25	23	92.0	322	262	81.4
5AB3 (Bl, weighted FIM motor 50-91, FIM cog 19-26)	24	21	87.5	212	188	88.7	413	361	87.4
5AB4 (Bl, weighted FIM motor 19-49, FIM cog 19-26)	3	2	66.7	48	39	81.3	222	168	75.7
5AB5 (Bl, weighted FIM motor 39-91, FIM cog 5-18)	25	22	88.0	223	179	80.3	252	204	81.0
5AB6 (Bl, weighted FIM motor 19-38, FIM cog 5-18)	5	5	100.0	92	60	65.2	154	103	66.9
5AP1 (MMT, weighted FIM motor 51-91)	11	11	100.0	123	115	93.5	80	72	90.0
5AP2 (MMT, weighted FIM motor 19-50)	4	4	100.0	62	57	91.9	76	59	77.6
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	10	4	40.0	52	21	40.4	95	52	54.7
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	13	7	53.8	132	71	53.8	51	35	68.6
All Brain AN-SNAP classes	104	85	81.7	1,118	897	80.2	2,107	1,728	82.0

Note: First Admission Only (excludes AN-SNAP class 599A)

Impairment	YOUR FACILITY			SPECIALIST			NON-SPECIALIST		
	All episodes	Completed episodes	%Complete	All episodes	Completed episodes	%Complete	All episodes	Completed episodes	%Complete
Traumatic impairments									
2.21 Open injury	4	4	100.0	65	49	75.4	77	67	87.0
2.22 Closed injury	51	43	84.3	522	436	83.5	632	520	82.3
14.1 MMT: brain+spine	5	5	100.0	50	50	100.0	26	22	84.6
14.2 MMT: brain+other	19	15	78.9	176	146	83.0	153	125	81.7
Total TBI	79	67	84.8	813	681	83.8	888	734	82.7
Non-traumatic impairments									
2.11 Sub-arachnoid haemorrhage	8	8	100.0	77	54	70.1	384	307	79.9
2.12 Anoxic brain damage	3	2	66.7	50	29	58.0	58	47	81.0
2.13 Other NTBI	8	8	100.0	178	133	74.7	781	640	81.9
Total NTBI	19	18	94.7	305	216	70.8	1,223	994	81.3
Total BI	98	85	86.7	1,118	897	80.2	2,111	1,728	81.9

Note: First Admission Only

Summary of incomplete episodes

	YOUR FACILITY		SPECIALIST		NON-SPECIALIST		ALL BRAIN	
	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Total reporting episodes	113		1,221		2,379		3,600	
Incomplete episodes	24	(21.2)	259	(21.2)	457	(19.2)	716	(19.9)

Reason for incomplete:

Discharged home with end FIM=18	2	(8.3)	13	(5.0)	8	(1.8)	21	(2.9)
Discharged home with no end FIM	0	(0.0)	1	(0.4)	4	(0.9)	5	(0.7)
Discharged to another hospital	7	(29.2)	86	(33.2)	207	(45.3)	293	(40.9)
Discharged back to acute same hospital	13	(54.2)	132	(51.0)	177	(38.7)	309	(43.2)
Discharged at own risk	1	(4.2)	21	(8.1)	27	(5.9)	48	(6.7)
Change of care type (LOS <1 week)	0	(0.0)	0	(0.0)	4	(0.9)	4	(0.6)
Died	0	(0.0)	2	(0.8)	6	(1.3)	8	(1.1)
Other/Unknown Discharge	1	(4.2)	4	(1.5)	24	(5.3)	28	(3.9)

	YOUR FACILITY			
	Incomplete Episodes		Complete episodes	
Impairment Code:				
2.11 Sub-arachnoid haemorrhage	3	(12.5)	8	(9.0)
2.12 Anoxic brain damage	1	(4.2)	2	(2.2)
2.13 Other NTBI	4	(16.7)	9	(10.1)
2.21 Open injury	1	(4.2)	4	(4.5)
2.22 Closed injury	10	(41.7)	45	(50.6)
14.1 MMT: brain+spine	0	(0.0)	5	(5.6)
14.2 MMT: brain+other	5	(20.8)	16	(18.0)
AN-SNAP Class:				
5AB1 (BI, weighted FIM motor 59-91, FIM cog 27-35)	0	(0.0)	9	(10.1)
5AB2 (BI, weighted FIM motor 19-58, FIM cog 27-35)	0	(0.0)	1	(1.1)
5AB3 (BI, weighted FIM motor 50-91, FIM cog 19-26)	4	(16.7)	21	(23.6)
5AB4 (BI, weighted FIM motor 19-49, FIM cog 19-26)	2	(8.3)	2	(2.2)
5AB5 (BI, weighted FIM motor 39-91, FIM cog 5-18)	3	(12.5)	22	(24.7)
5AB6 (BI, weighted FIM motor 19-38, FIM cog 5-18)	0	(0.0)	7	(7.9)
5AP1 (MMT, weighted FIM motor 51-91)	0	(0.0)	12	(13.5)
5AP2 (MMT, weighted FIM motor 19-50)	0	(0.0)	4	(4.5)
5AZ1 (BI or MMT, age ≥ 59, weighted FIM motor 13-18)	6	(25.0)	4	(4.5)
5AZ2 (BI or MMT, age ≤ 58, weighted FIM motor 13-18)	9	(37.5)	7	(7.9)



Review of FIM item scoring by AN-SNAP class



Interpreting the comparative FIM item scoring charts



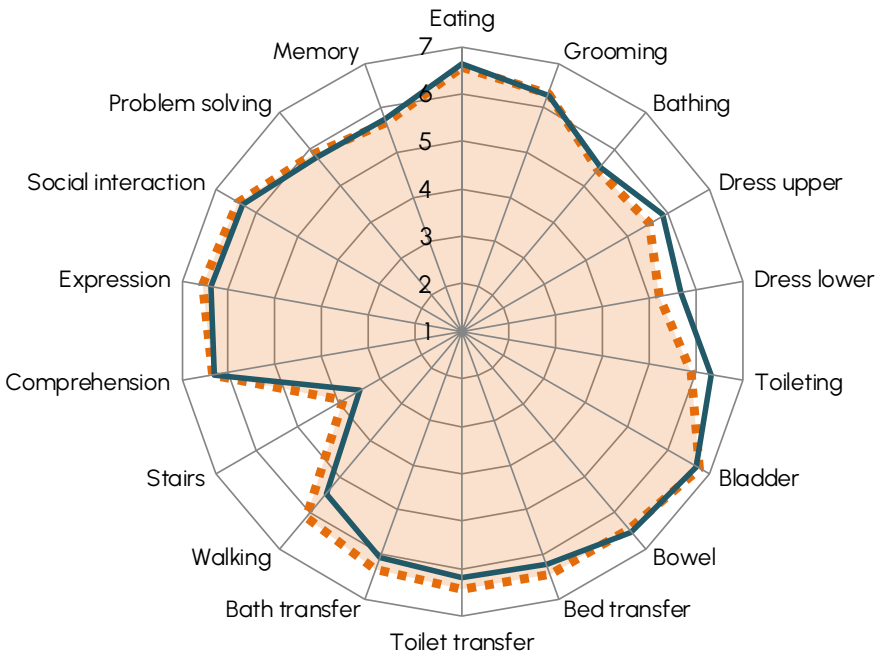
The FIM splat provides a graphic presentation of functional status in a radar chart. The 18 FIM items are arranged in order as 'spokes' of a wheel and the scoring levels from 1 (total dependence) to 7 (total independence) run from the centre outwards. The mean FIM item score for each item is indicated — 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 SPECIALIST 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 5ABI



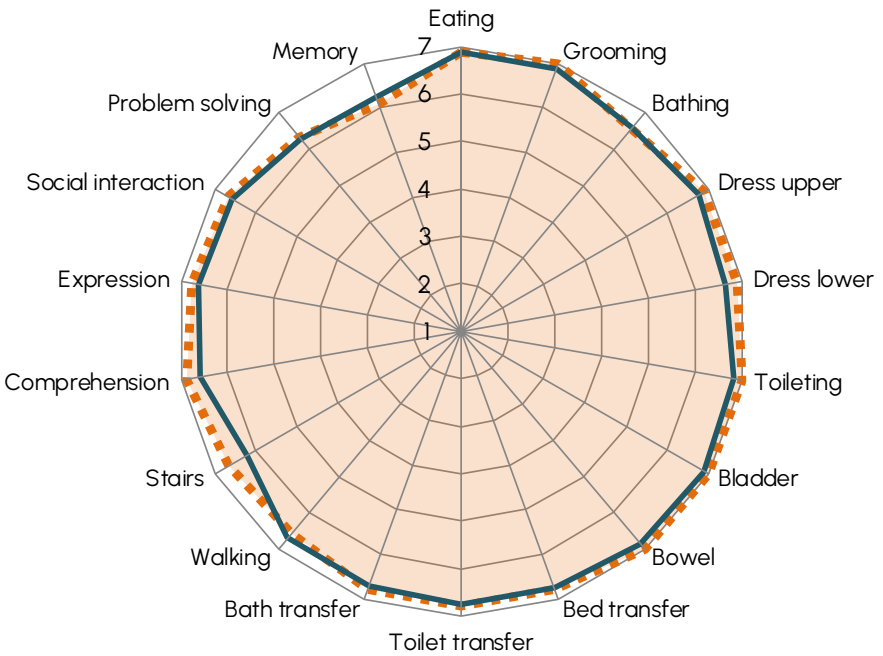
5ABI Admission FIM scores

■ Your Facility (n=9)
■ Specialist (n=148)



5ABI Discharge FIM scores

■ Your Facility (n=9)
■ Specialist (n=148)

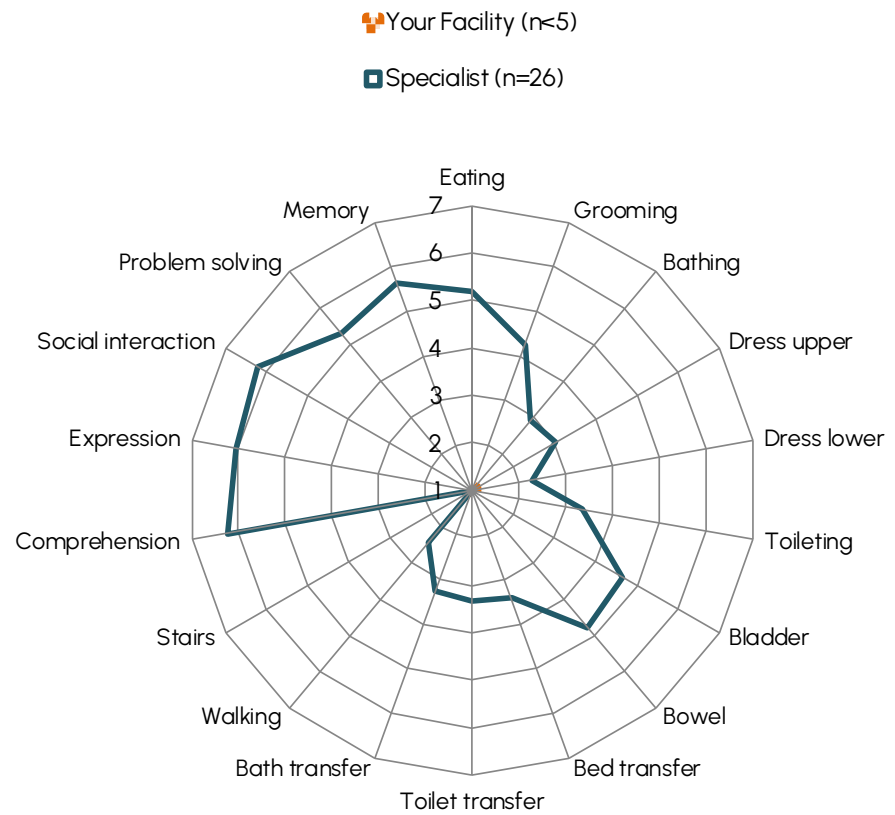


Note: Includes only completed episodes with valid FIM scores

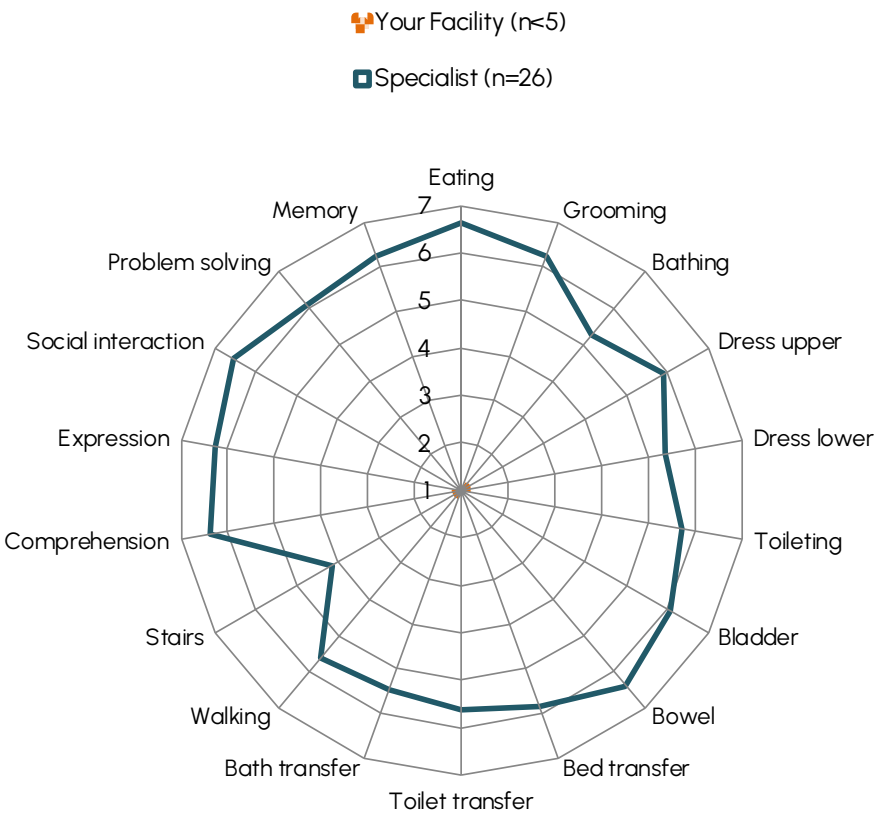
Comparative FIM item scoring AN-SNAP class 5AB2



5AB2 Admission FIM scores



5AB2 Discharge FIM scores



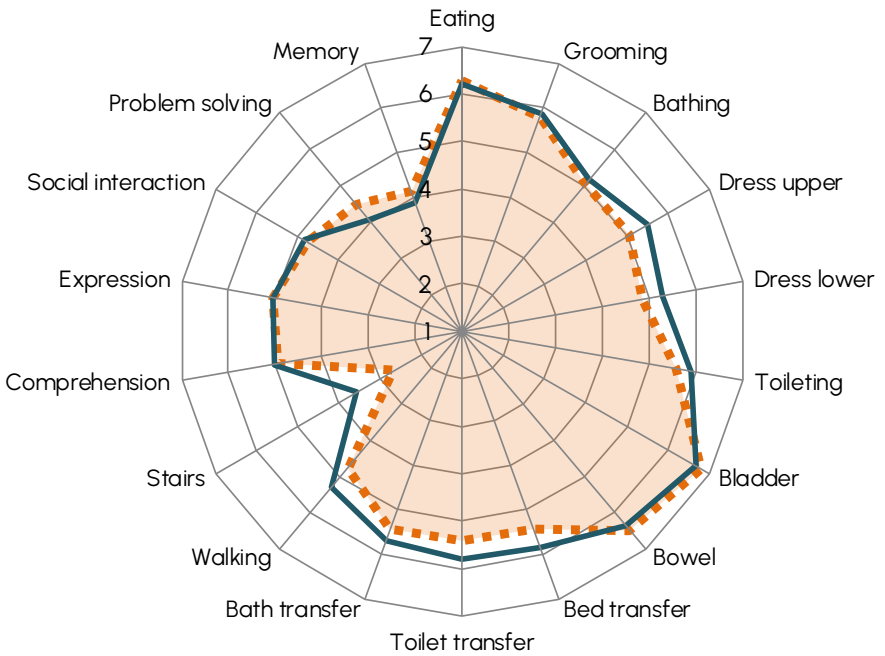
Note: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AB3



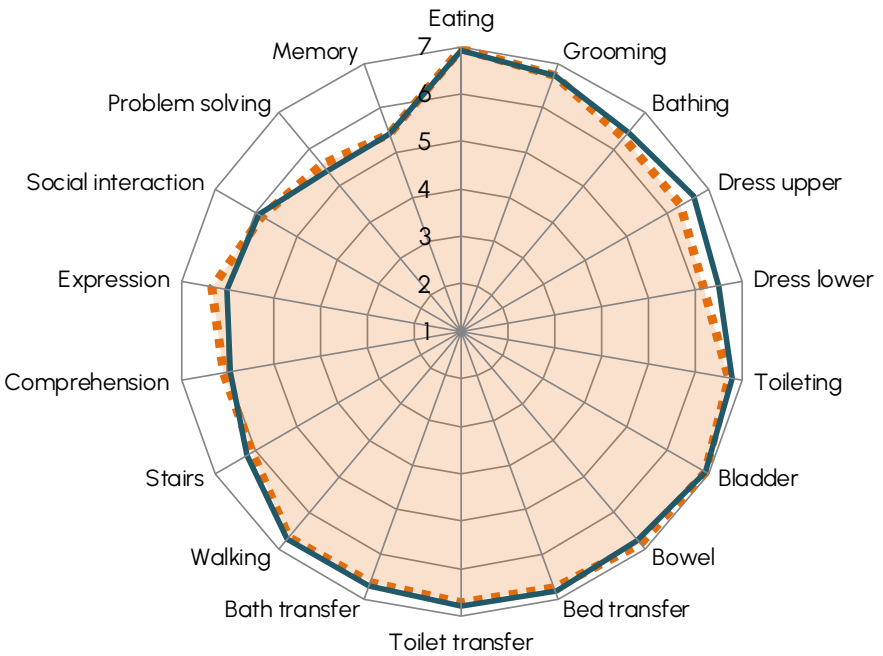
5AB3 Admission FIM scores

▬ Your Facility (n=21)
▬ Specialist (n=199)



5AB3 Discharge FIM scores

▬ Your Facility (n=21)
▬ Specialist (n=199)

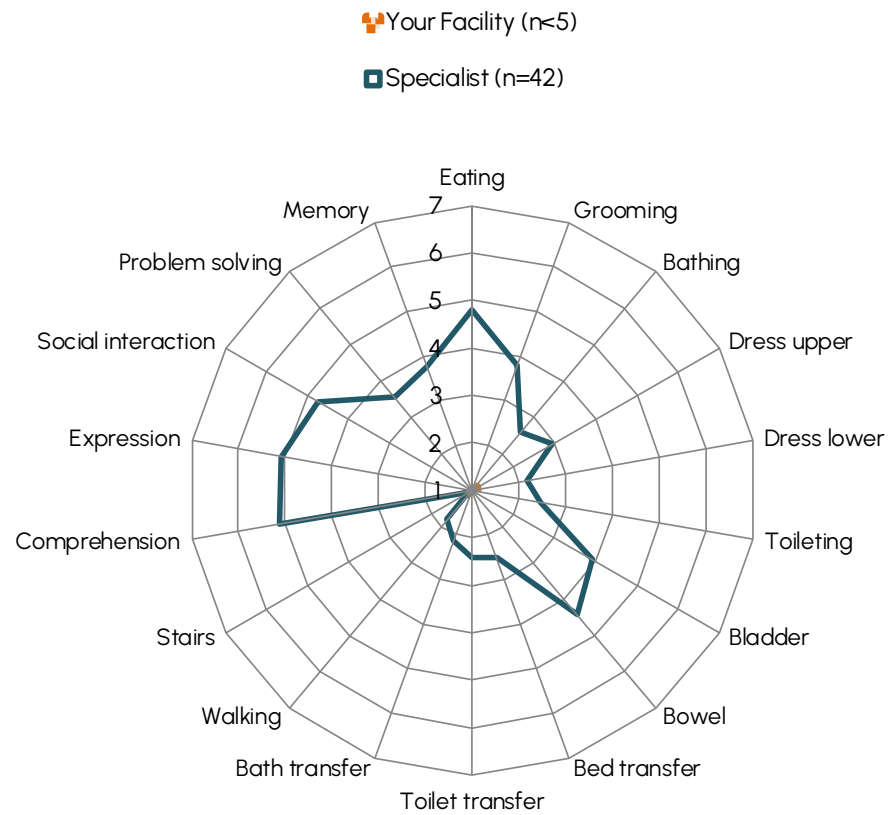


Note: Includes only completed episodes with valid FIM scores

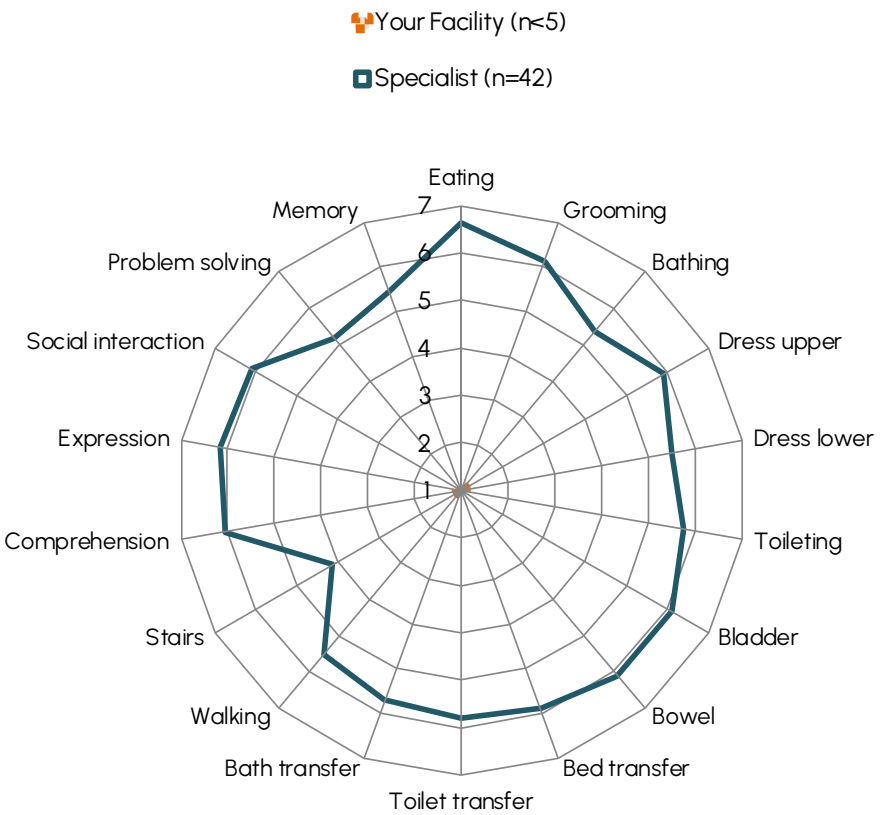
Comparative FIM item scoring AN-SNAP class 5AB4



5AB4 Admission FIM scores



5AB4 Discharge FIM scores



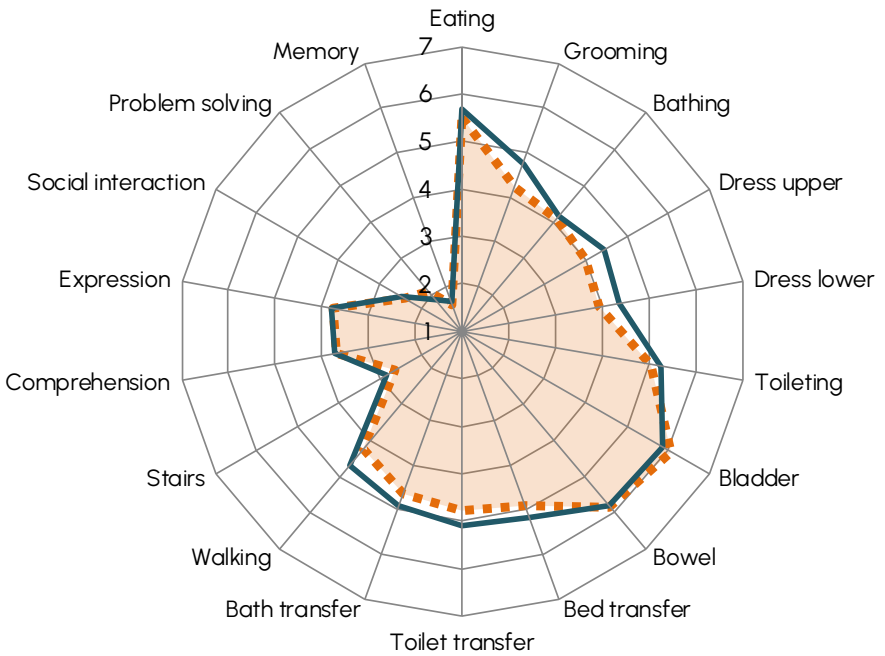
Note: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AB5



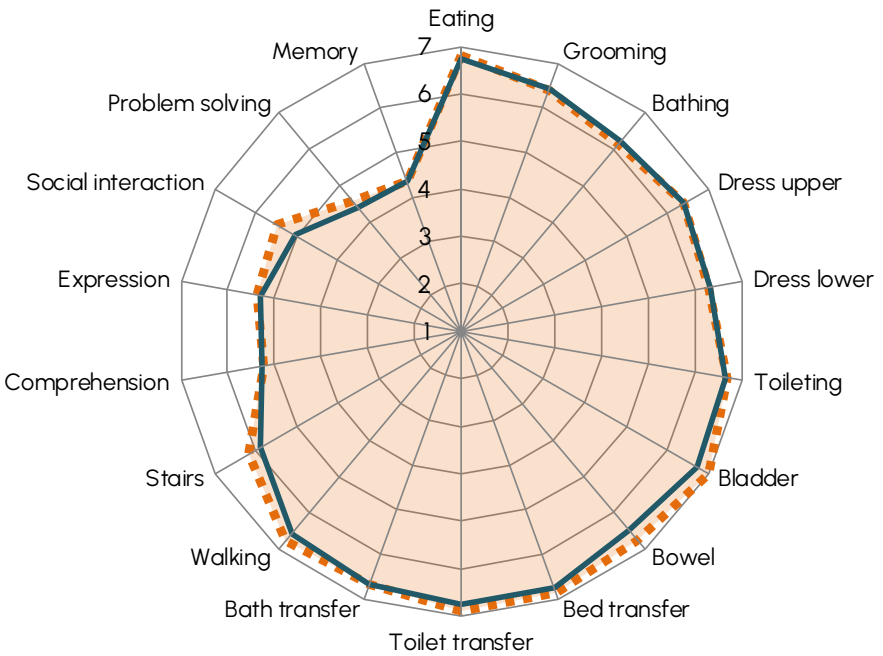
5AB5 Admission FIM scores

▣ Your Facility (n=22)
▣ Specialist (n=192)



5AB5 Discharge FIM scores

▣ Your Facility (n=22)
▣ Specialist (n=192)

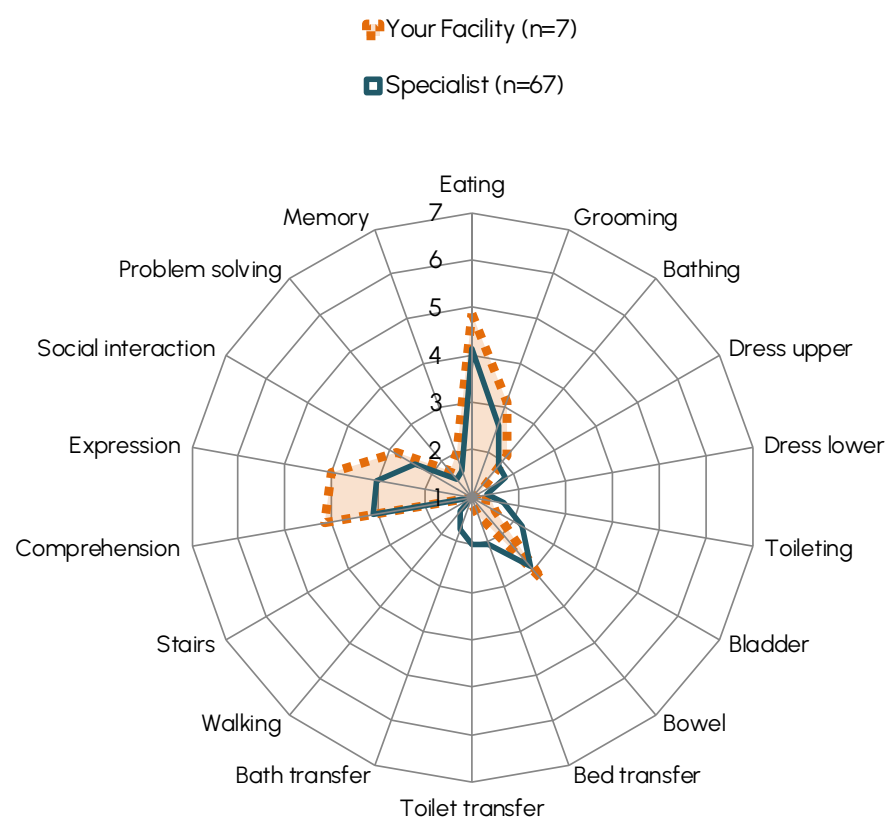


Note: Includes only completed episodes with valid FIM scores

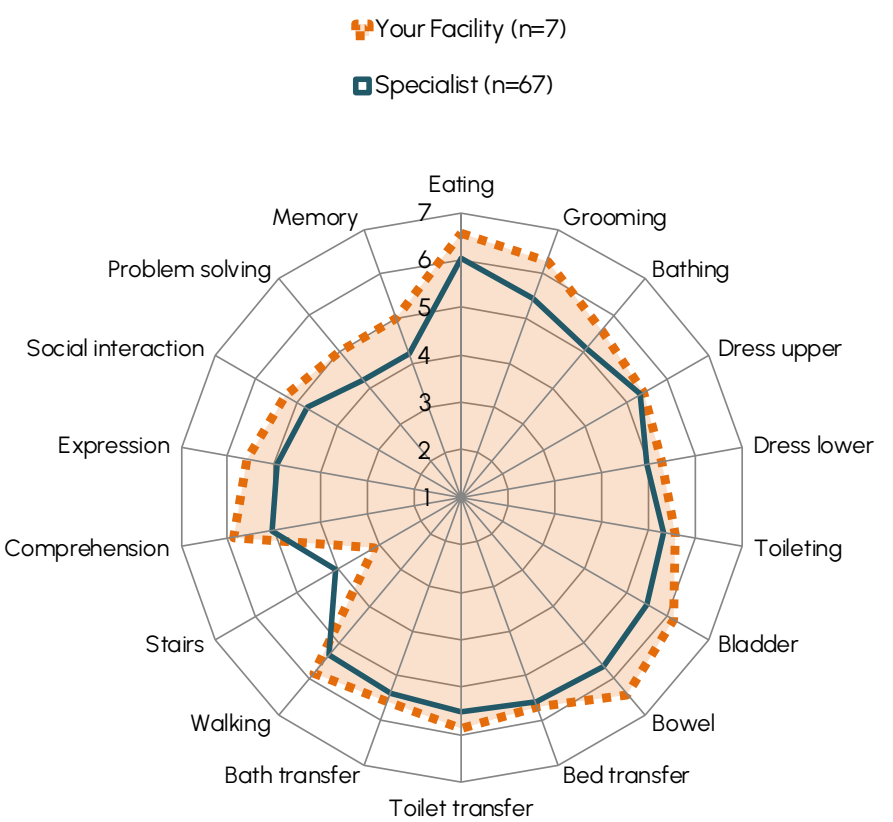
Comparative FIM item scoring AN-SNAP class 5AB6



5AB6 Admission FIM scores



5AB6 Discharge FIM scores



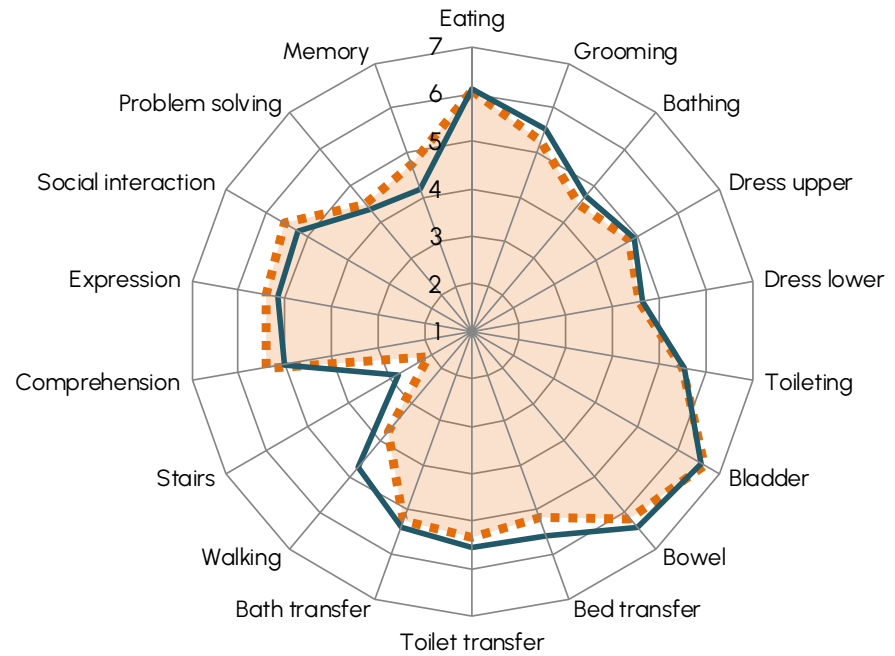
Note: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5API



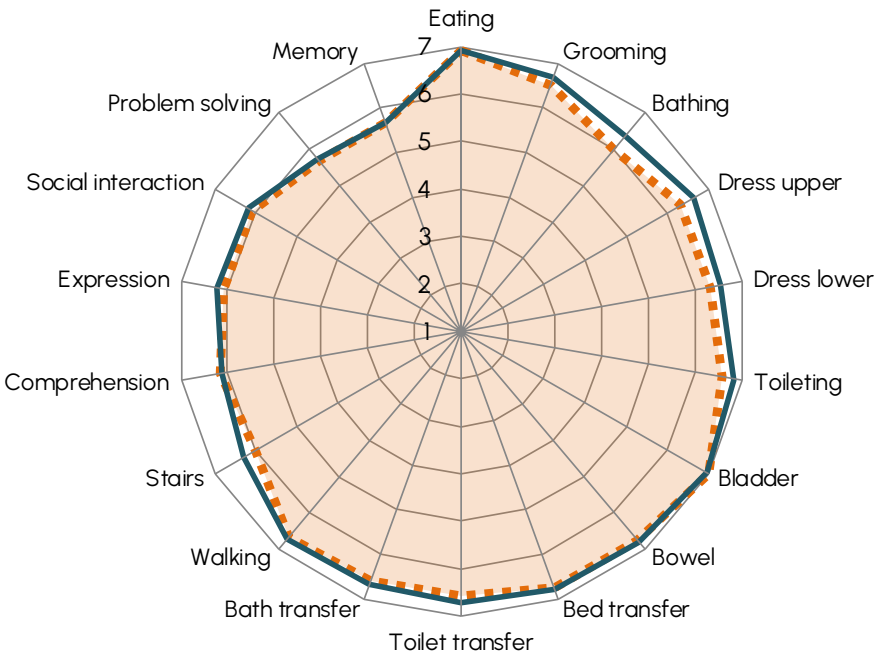
5API Admission FIM scores

▬ Your Facility (n=12)
▬ Specialist (n=120)



5API Discharge FIM scores

▬ Your Facility (n=12)
▬ Specialist (n=120)

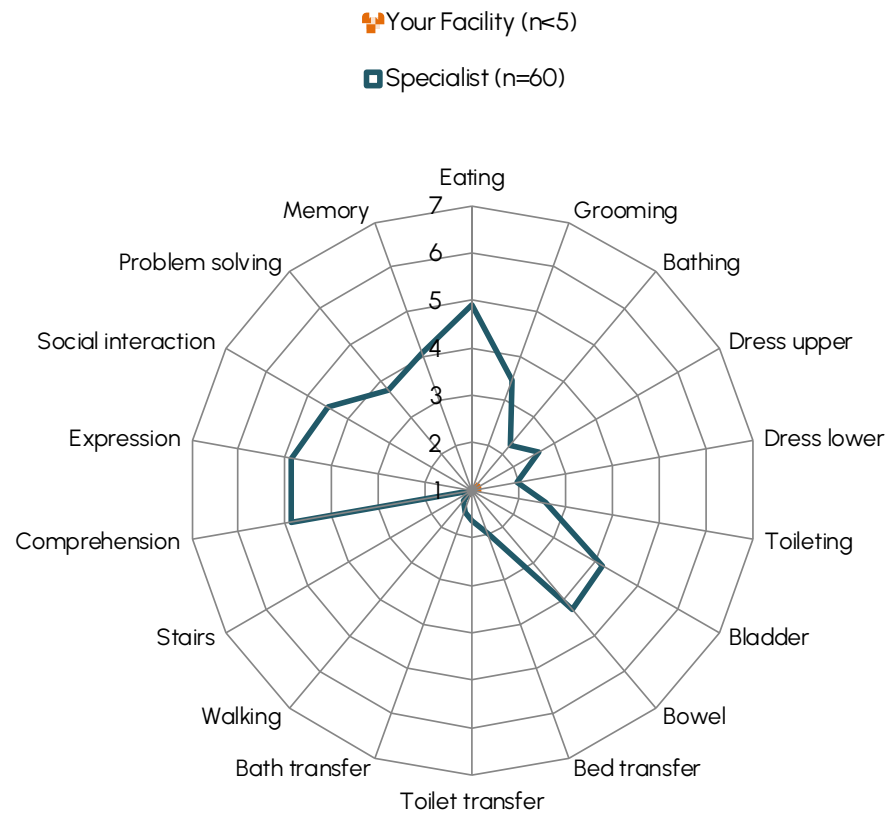


Note: Includes only completed episodes with valid FIM scores

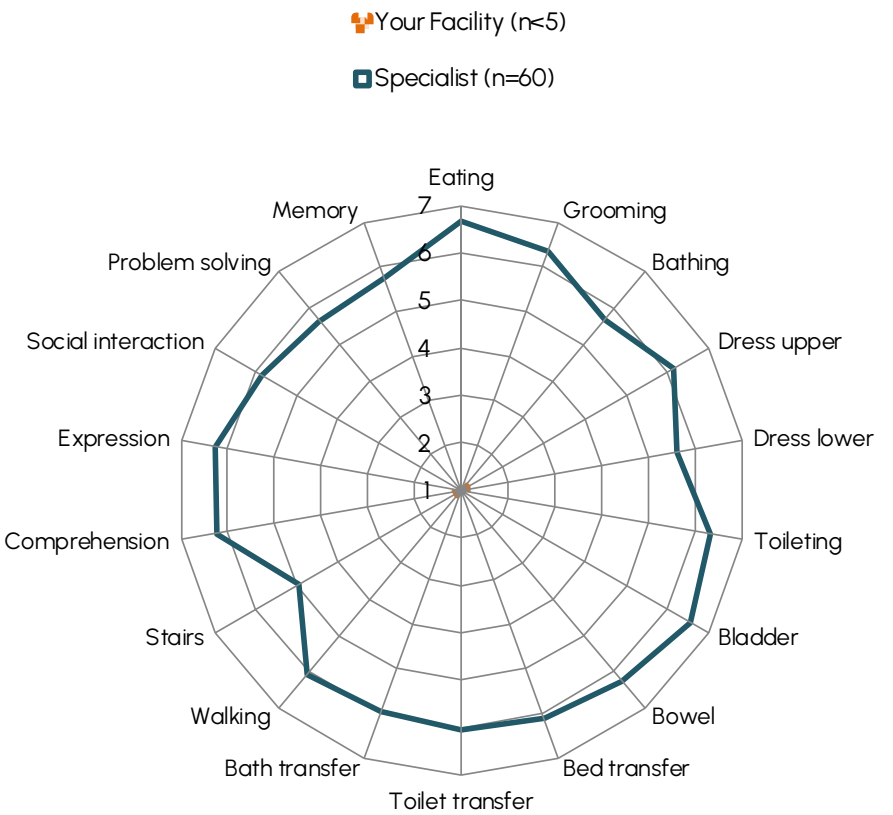
Comparative FIM item scoring AN-SNAP class 5AP2



5AP2 Admission FIM scores



5AP2 Discharge FIM scores



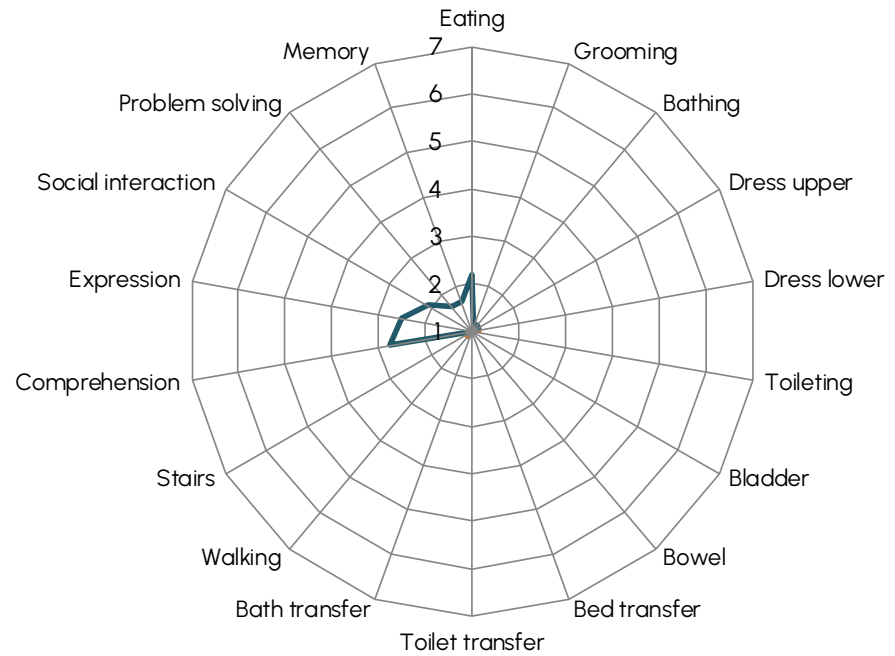
Note: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AZI



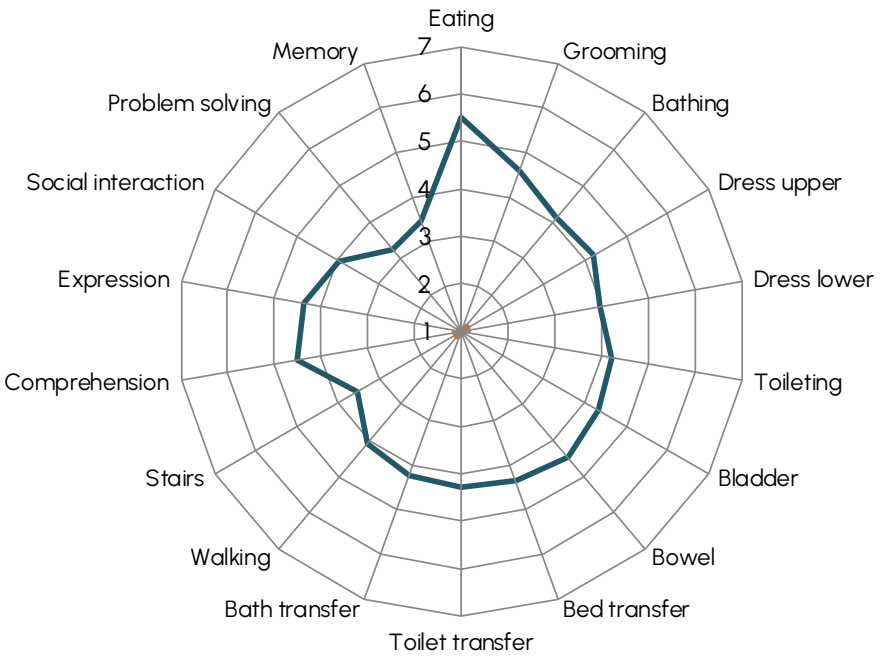
5AZI Admission FIM scores

🏠 Your Facility (n<5)
 🏢 Specialist (n=25)



5AZI Discharge FIM scores

🏠 Your Facility (n<5)
 🏢 Specialist (n=25)



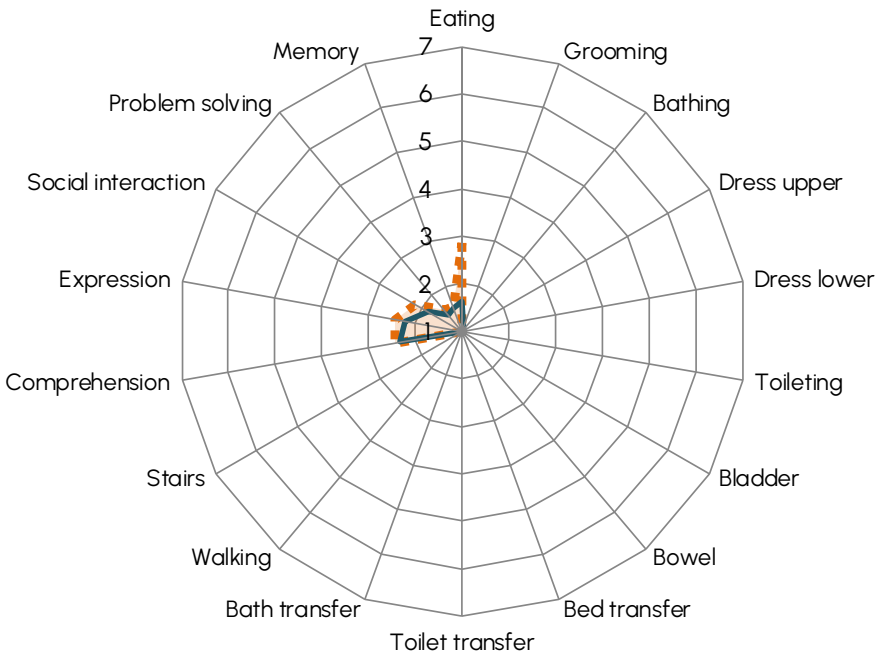
Note: Includes only completed episodes with valid FIM scores

Comparative FIM item scoring AN-SNAP class 5AZ2



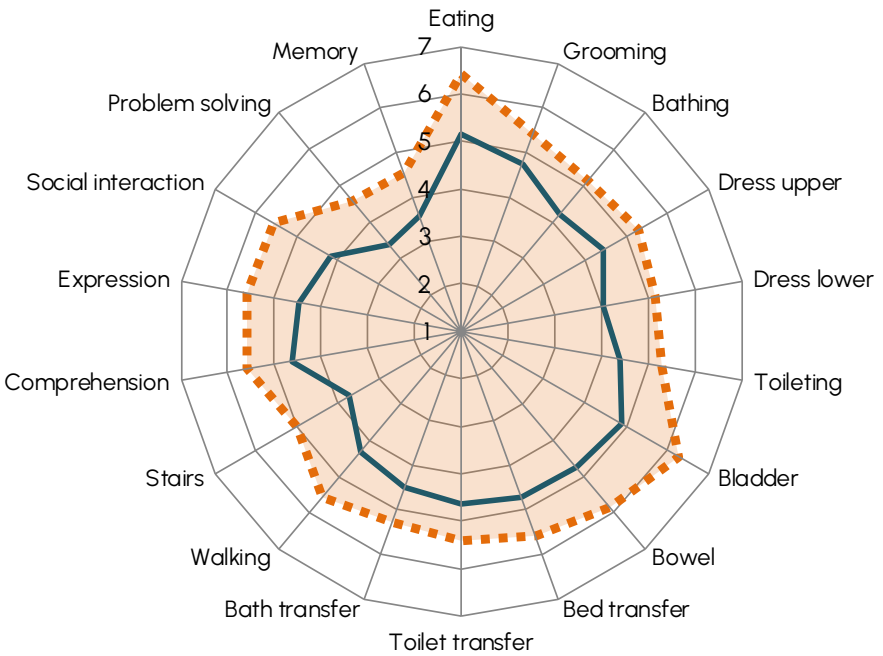
5AZ2 Admission FIM scores

▬ Your Facility (n=7)
▬ Specialist (n=83)



5AZ2 Discharge FIM scores

▬ Your Facility (n=7)
▬ Specialist (n=83)

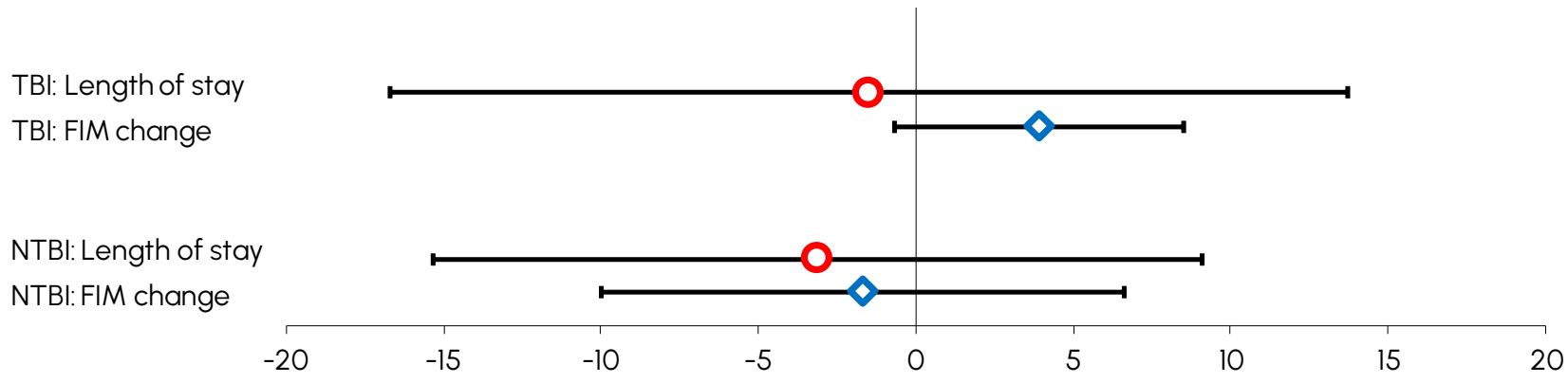


Note: Includes only completed episodes with valid FIM scores



Outcome analysis

Casemix adjusted relative means



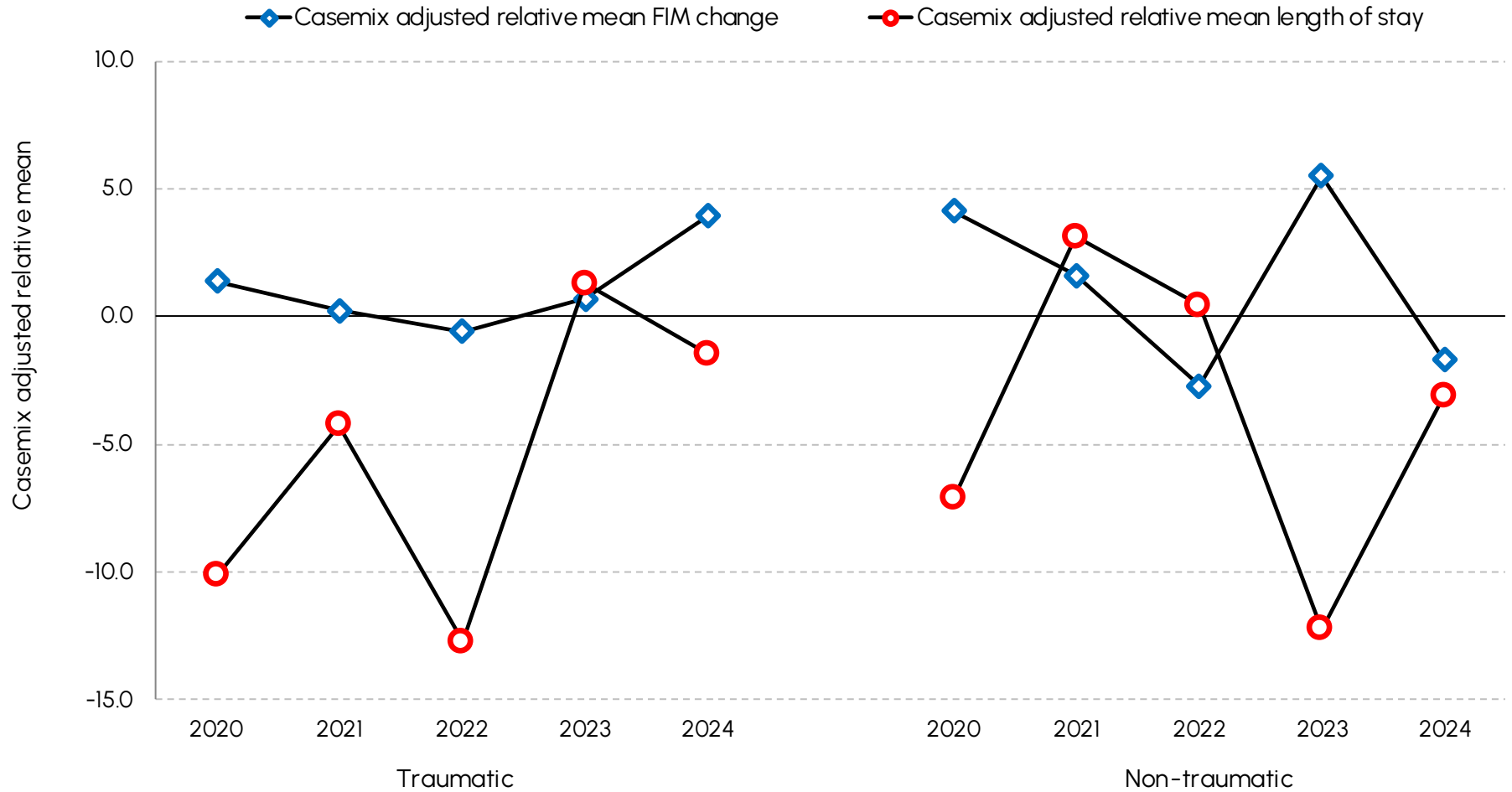
Casemix-adjusted relative means with 95% confidence intervals

Outcome measures	Traumatic		YOUR FACILITY		Non-traumatic	
	Casemix-adjusted relative mean	95% CI	Casemix-adjusted relative mean	95% CI	Casemix-adjusted relative mean	95% CI
Length of stay	-1.5	-16.7 to 13.7	-3.1	-15.3 to 9.1	-3.1	-15.3 to 9.1
FIM change	3.9	-0.7 to 8.5	-1.7	-10.0 to 6.6	-1.7	-10.0 to 6.6

Note: First admission, completed episodes.

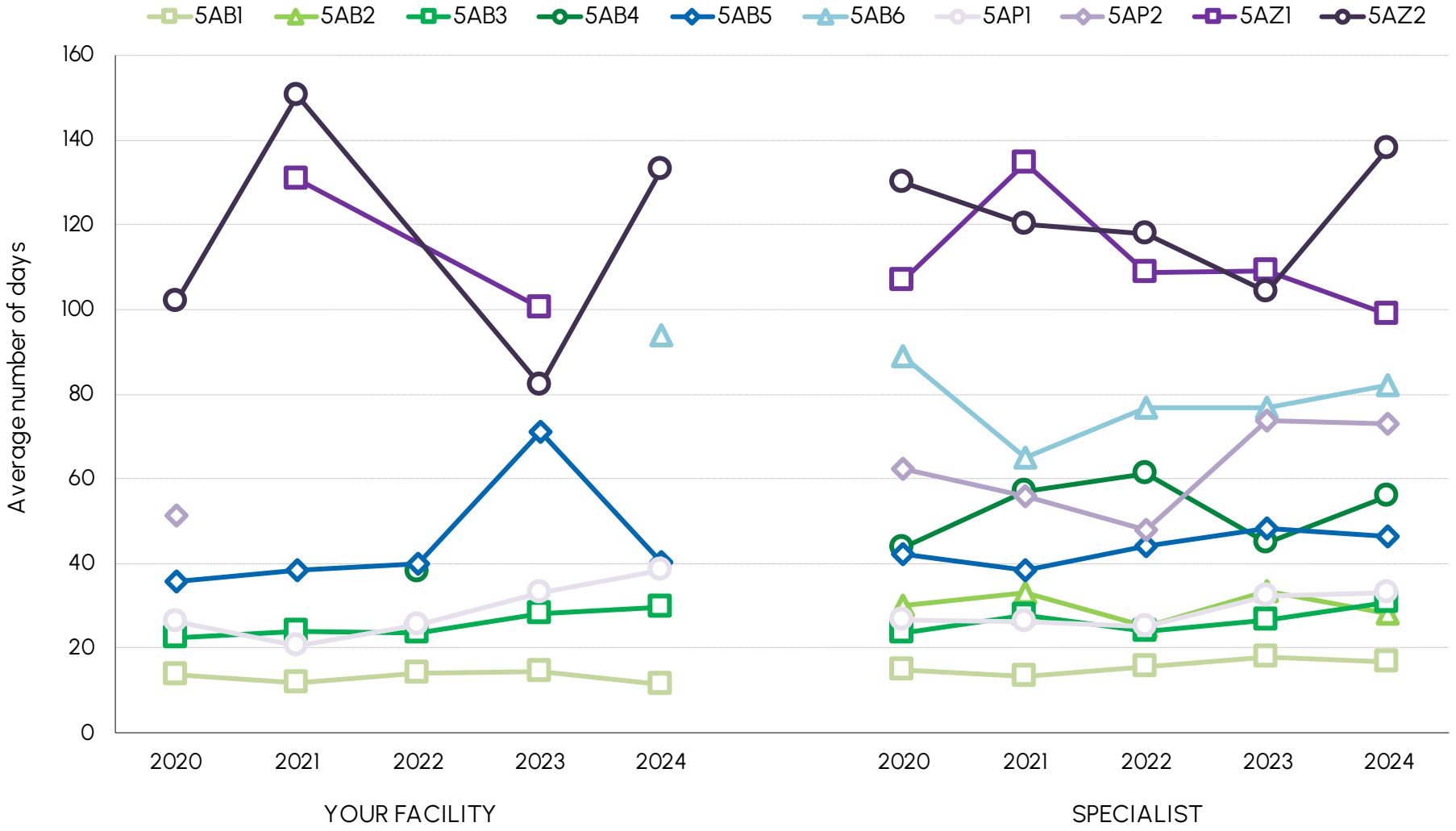
Traumatic and non-traumatic brain injury casemix adjusted relative means over time

(base year = 2024)



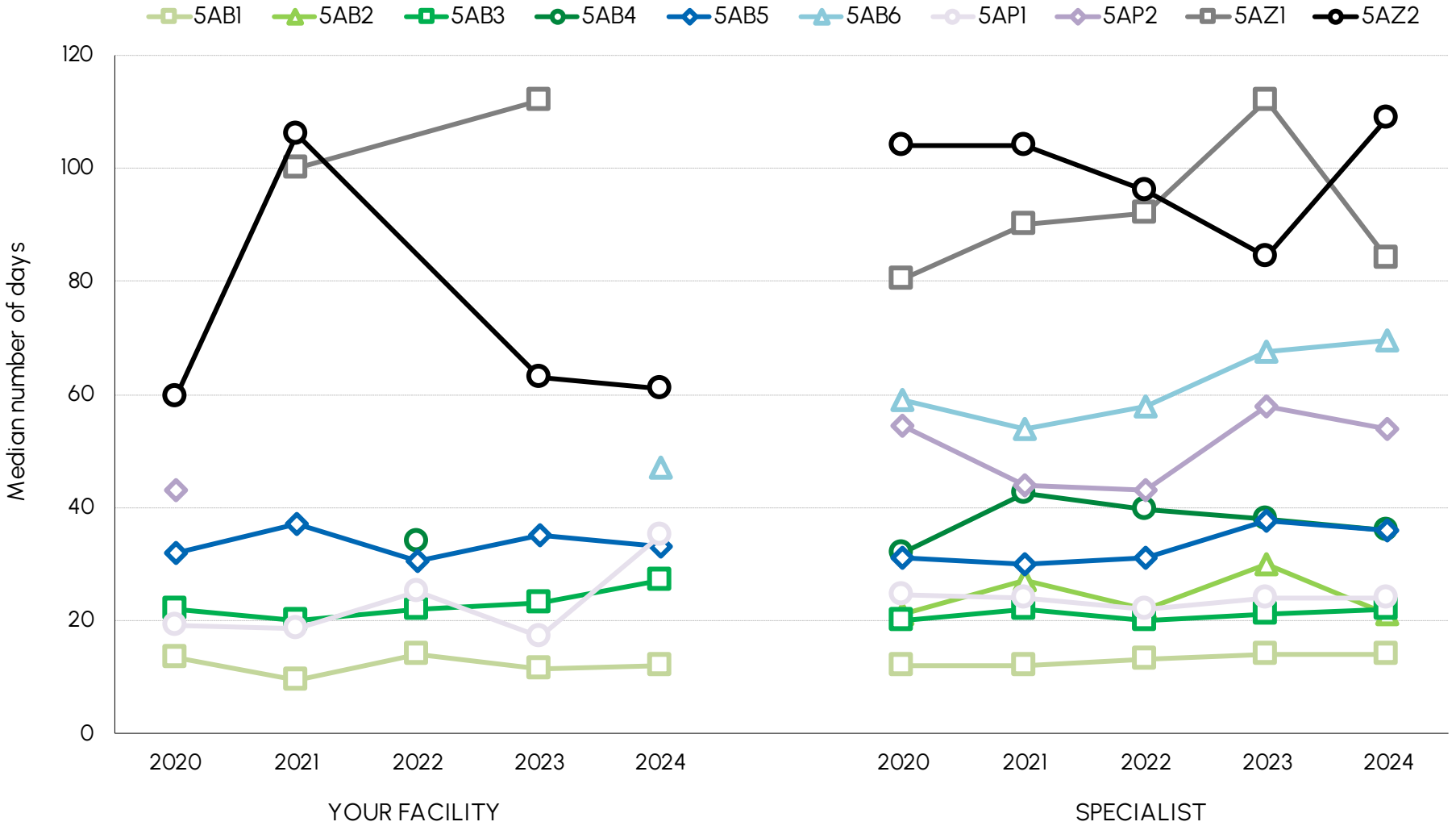
Note: First admission, completed episodes.

Average length of stay by AN-SNAP class over time



Note: First admission, completed episodes.

Median length of stay by AN-SNAP class over time



Note: First admission, completed episodes.

Average and median length of stay by AN-SNAP class over time

AVERAGE

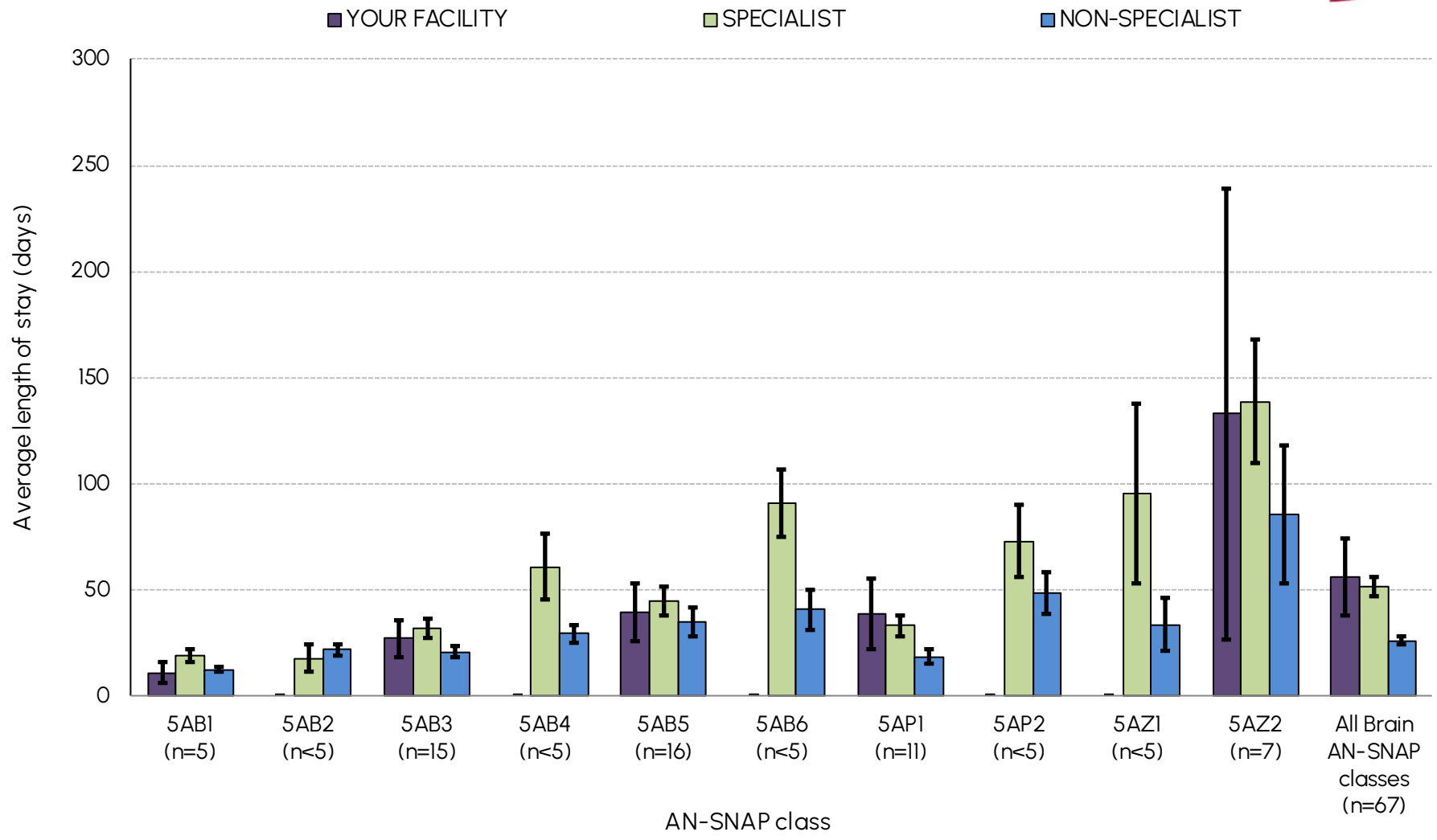
AN-SNAP class	YOUR FACILITY					SPECIALIST					NON-SPECIALIST				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
5AB1 (Bl, weighted FIM motor 59-91, FIM cog 27-35)	13.7	11.9	14.2	14.6	11.3	14.8	13.5	15.4	17.8	16.7	12.0	13.5	12.6	13.1	12.8
5AB2 (Bl, weighted FIM motor 19-58, FIM cog 27-35)	—	—	—	—	—	29.9	33.0	25.0	33.6	28.1	23.6	22.7	24.0	22.2	21.9
5AB3 (Bl, weighted FIM motor 50-91, FIM cog 19-26)	22.6	23.8	23.6	28.2	29.8	23.4	27.8	24.1	26.7	30.8	17.3	20.1	21.6	19.2	19.8
5AB4 (Bl, weighted FIM motor 19-49, FIM cog 19-26)	—	—	37.8	—	—	43.7	57.0	61.1	44.8	56.1	28.8	30.5	31.3	33.6	32.8
5AB5 (Bl, weighted FIM motor 39-91, FIM cog 5-18)	35.6	38.6	39.9	70.9	40.1	42.1	38.4	44.0	48.4	46.3	27.2	24.7	30.4	36.1	31.6
5AB6 (Bl, weighted FIM motor 19-38, FIM cog 5-18)	—	—	—	—	94.0	88.9	65.2	76.8	76.7	82.2	34.9	37.7	43.1	43.9	42.5
5AP1 (MMT, weighted FIM motor 51-91)	26.1	20.7	25.3	32.9	38.4	26.5	26.3	25.1	32.4	33.1	17.9	24.3	19.4	20.4	18.6
5AP2 (MMT, weighted FIM motor 19-50)	51.2	—	—	—	—	62.5	55.8	48.0	74.0	73.0	55.3	40.1	48.1	55.1	48.4
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	—	130.7	—	100.4	—	106.8	134.7	108.9	109.1	98.9	46.2	51.7	48.7	53.4	60.6
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	101.8	150.4	—	82.3	133.0	129.9	120.3	118.0	104.4	137.9	90.7	98.1	69.5	83.2	97.2
All Brain AN-SNAP classes	37.5	46.4	35.5	48.7	51.4	47.6	44.7	45.6	46.2	48.9	24.3	24.8	26.4	27.4	26.2

MEDIAN

AN-SNAP class	YOUR FACILITY					SPECIALIST					NON-SPECIALIST				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
5AB1 (Bl, weighted FIM motor 59-91, FIM cog 27-35)	13.5	9.5	14.0	11.5	12.0	12.0	12.0	13.0	14.0	14.0	10.0	11.0	11.0	12.0	12.0
5AB2 (Bl, weighted FIM motor 19-58, FIM cog 27-35)	—	—	—	—	—	21.0	27.0	22.0	30.0	21.0	19.0	20.0	18.0	19.0	18.0
5AB3 (Bl, weighted FIM motor 50-91, FIM cog 19-26)	22.0	20.0	22.0	23.0	27.0	20.0	22.0	20.0	21.0	22.0	15.0	16.0	16.0	15.0	15.0
5AB4 (Bl, weighted FIM motor 19-49, FIM cog 19-26)	—	—	34.0	—	—	32.0	42.5	39.5	38.0	36.0	24.0	26.0	24.0	27.0	25.0
5AB5 (Bl, weighted FIM motor 39-91, FIM cog 5-18)	32.0	37.0	30.5	35.0	33.0	31.0	30.0	31.0	37.5	36.0	21.0	22.0	23.0	24.5	26.0
5AB6 (Bl, weighted FIM motor 19-38, FIM cog 5-18)	—	—	—	—	47.0	59.0	54.0	58.0	67.5	69.5	29.0	31.0	34.0	34.0	36.0
5AP1 (MMT, weighted FIM motor 51-91)	19.0	18.5	25.0	17.0	35.0	24.5	24.0	22.0	24.0	24.0	15.0	18.0	15.0	18.0	14.5
5AP2 (MMT, weighted FIM motor 19-50)	43.0	—	—	—	—	54.5	44.0	43.0	58.0	54.0	36.5	36.0	36.0	40.0	38.0
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	—	100.0	—	112.0	—	80.5	90.0	92.0	112.0	84.0	41.0	42.0	40.0	48.0	40.5
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	59.5	106.0	—	63.0	61.0	104.0	104.0	96.0	84.5	109.0	70.0	67.0	55.0	69.0	77.0
All Brain AN-SNAP classes	25.0	28.0	26.0	26.0	33.0	28.0	28.0	29.0	29.5	30.0	17.0	18.0	18.0	19.0	18.0

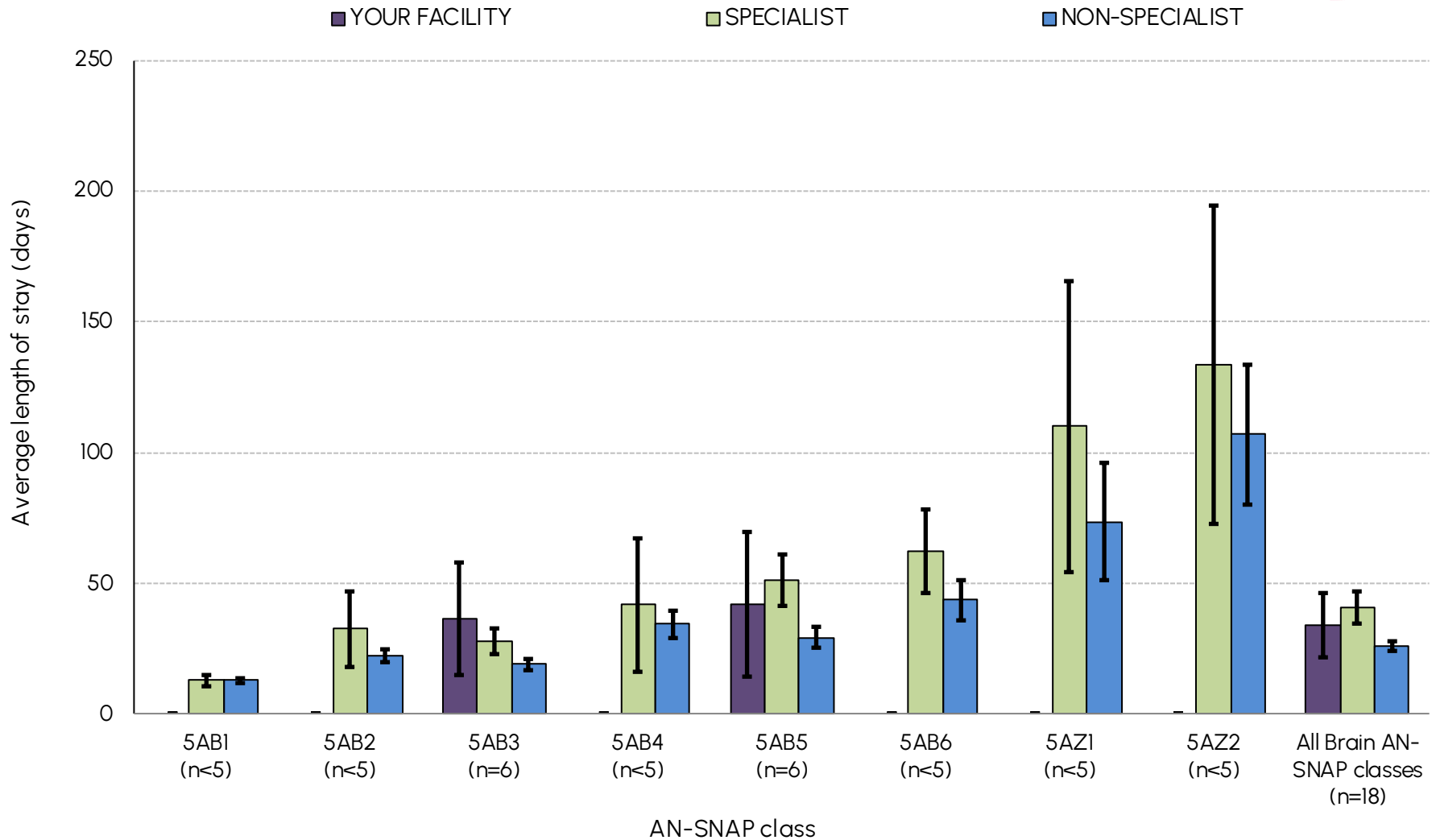
Note: First admission, completed episodes.

Traumatic brain injury average length of stay by AN-SNAP class



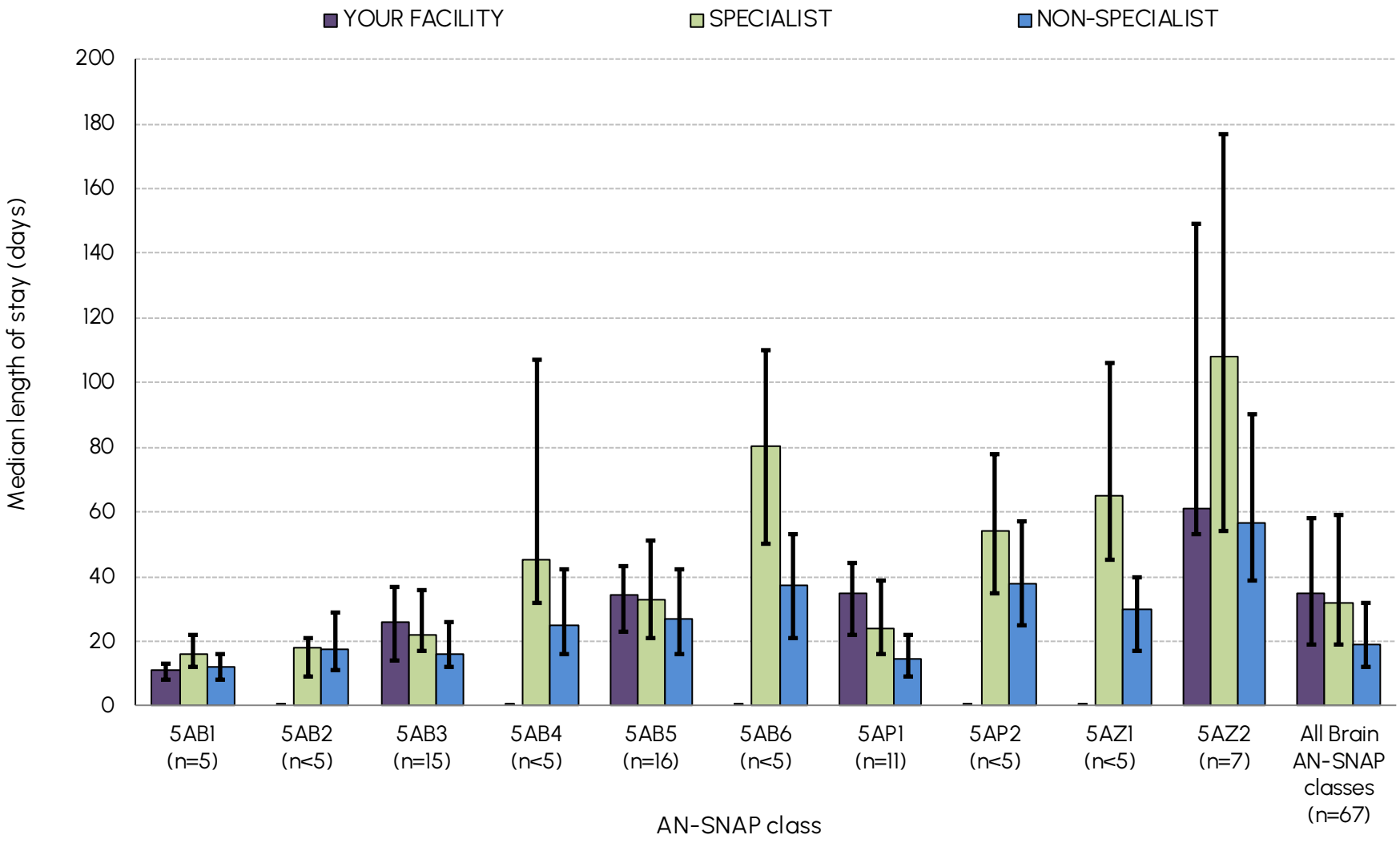
Note: First admission, completed episodes.

Non-traumatic brain injury average length of stay by AN-SNAP class



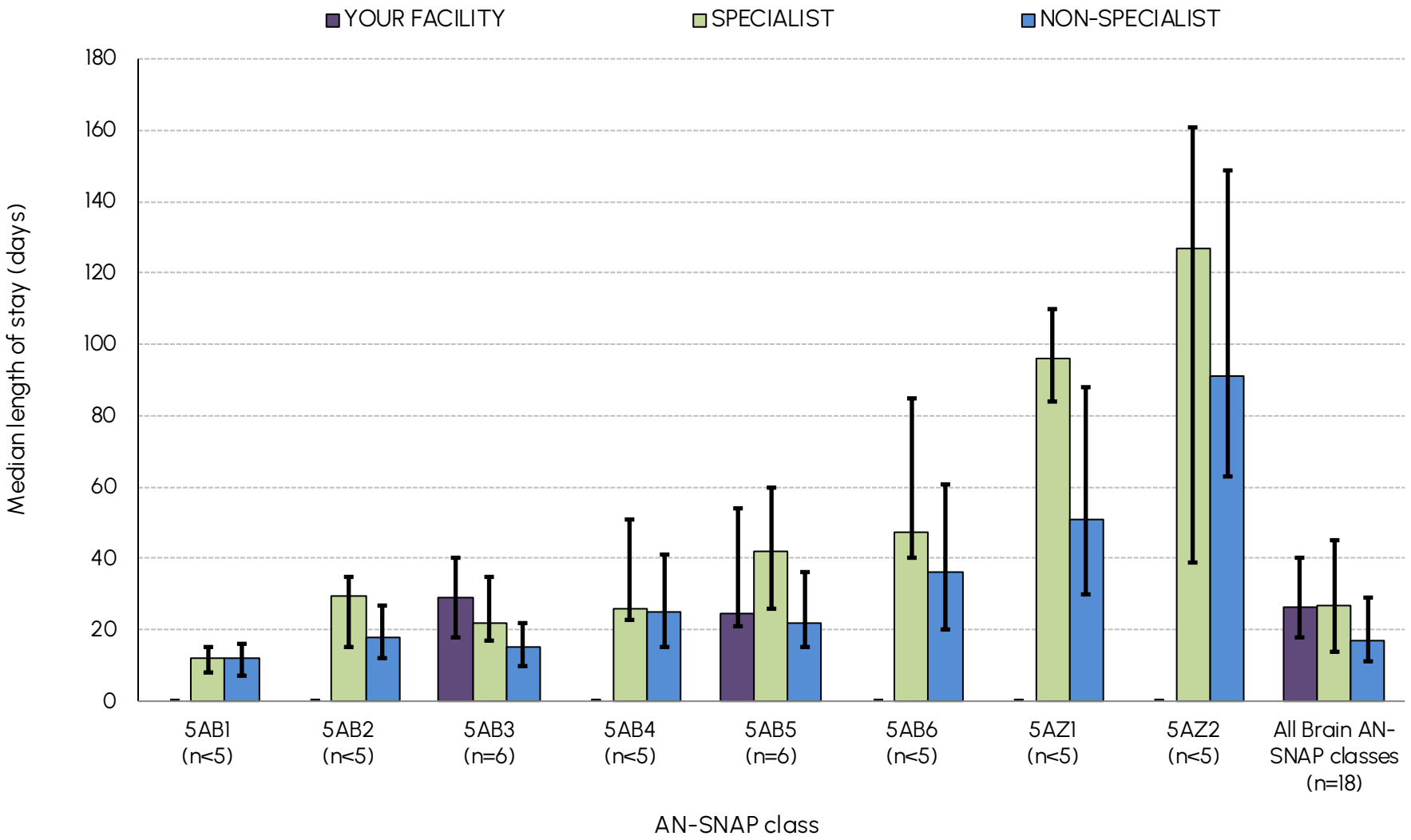
Note: First admission, completed episodes.

Traumatic brain injury median length of stay by AN-SNAP class



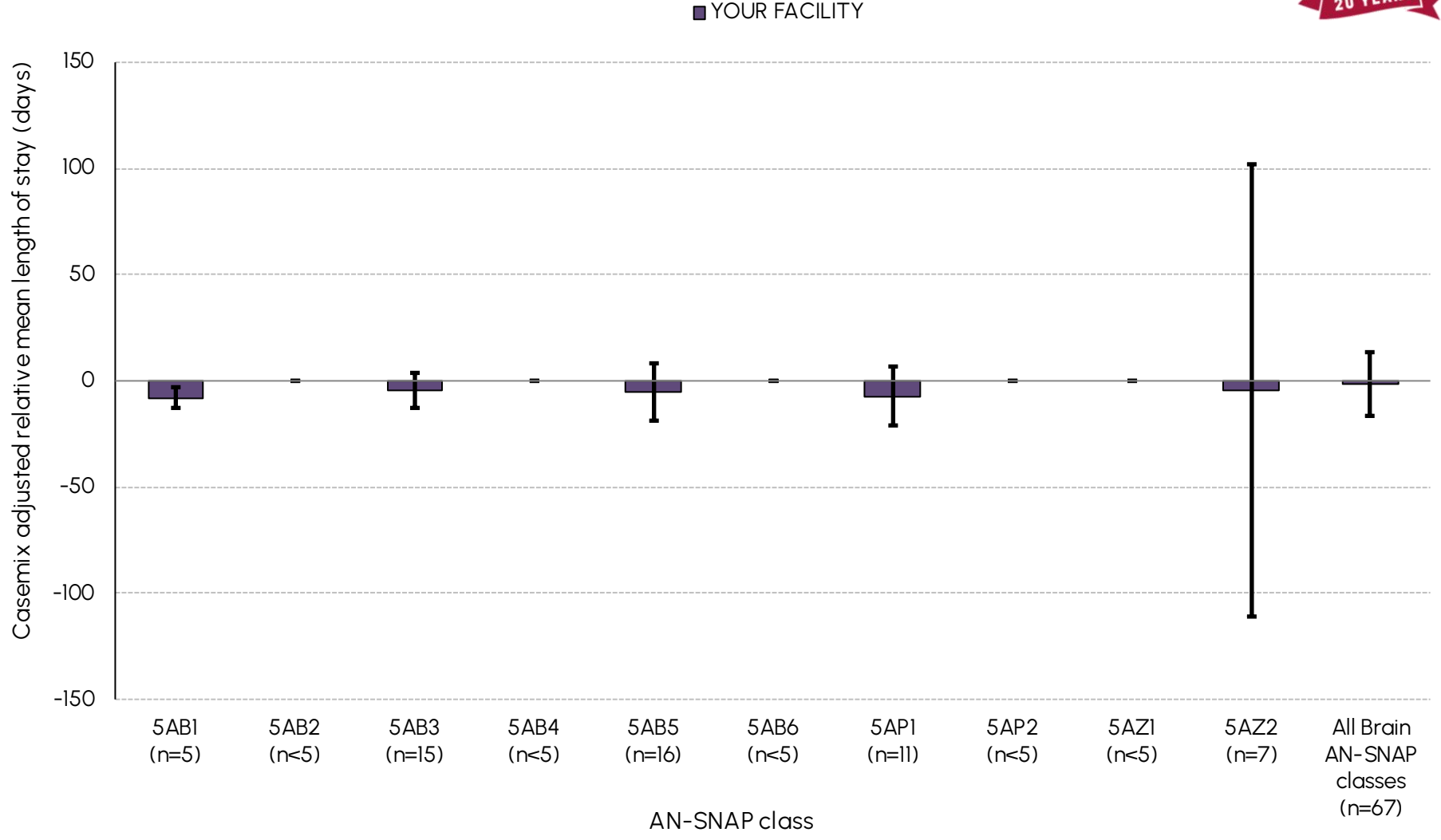
Note: First admission, completed episodes.

Non-traumatic brain injury median length of stay by AN-SNAP class



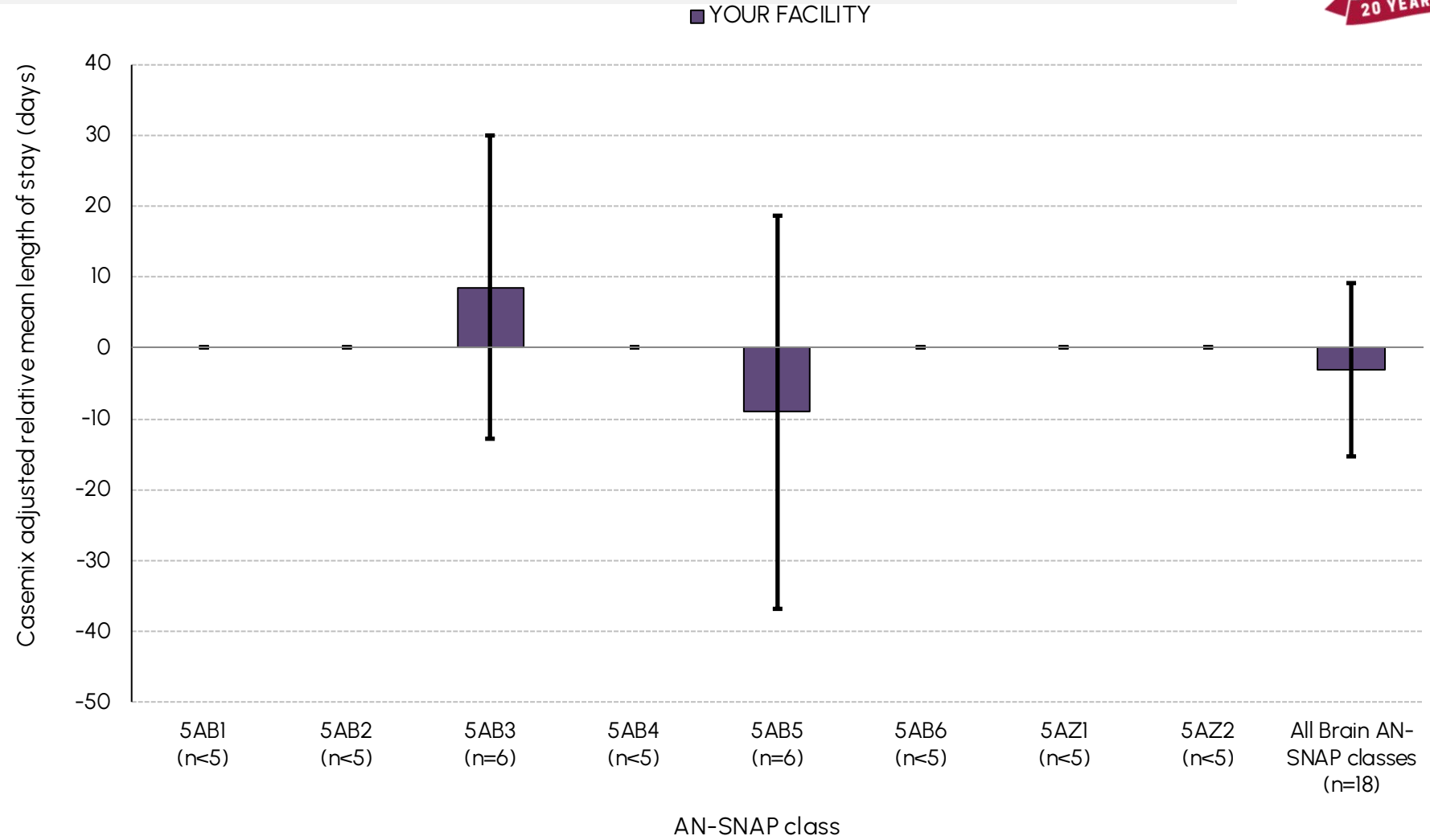
Note: First admission, completed episodes.

TBI casemix adjusted relative mean length of stay by AN-SNAP class



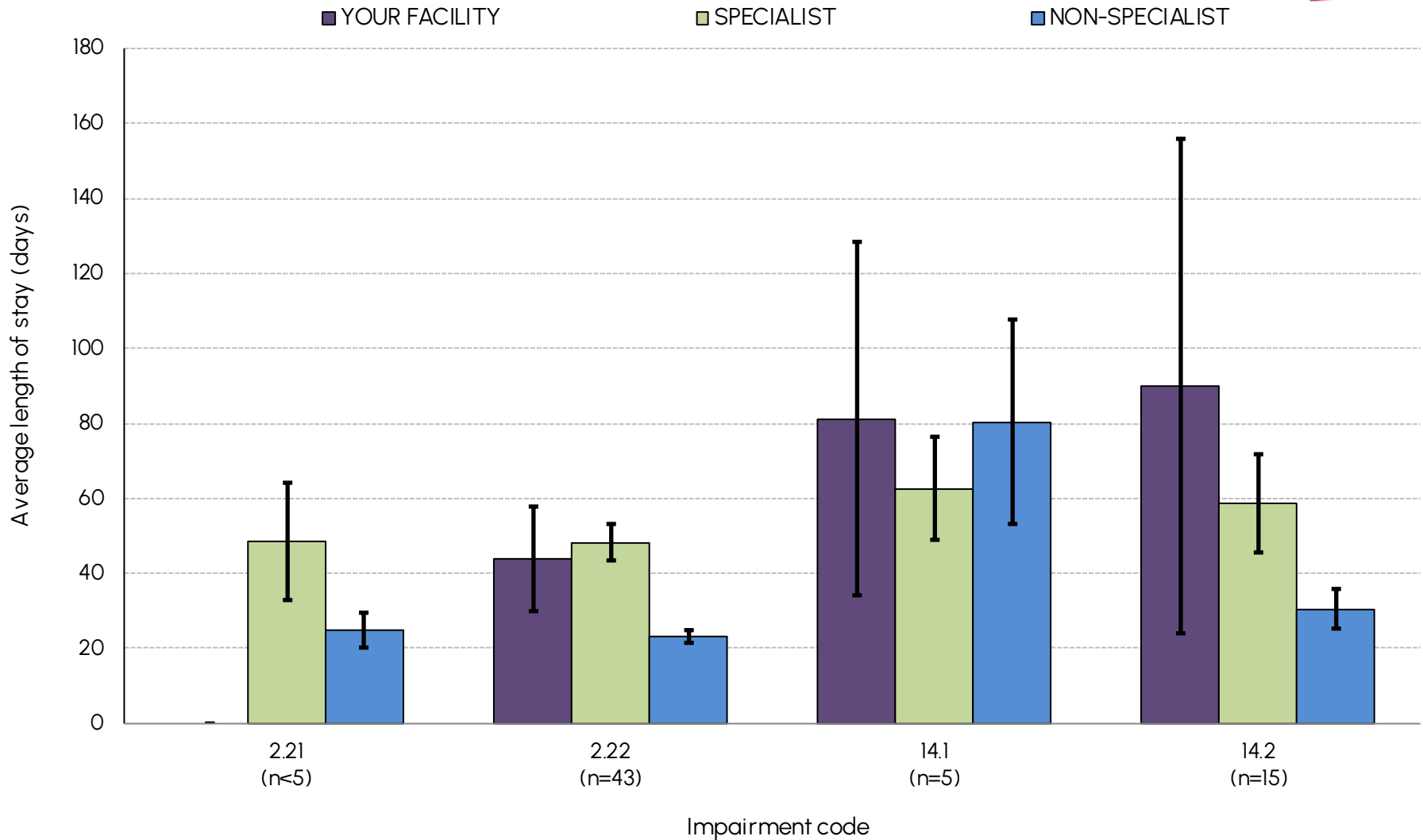
Note: First admission, completed episodes.

NTBI casemix adjusted relative mean length of stay by AN-SNAP class



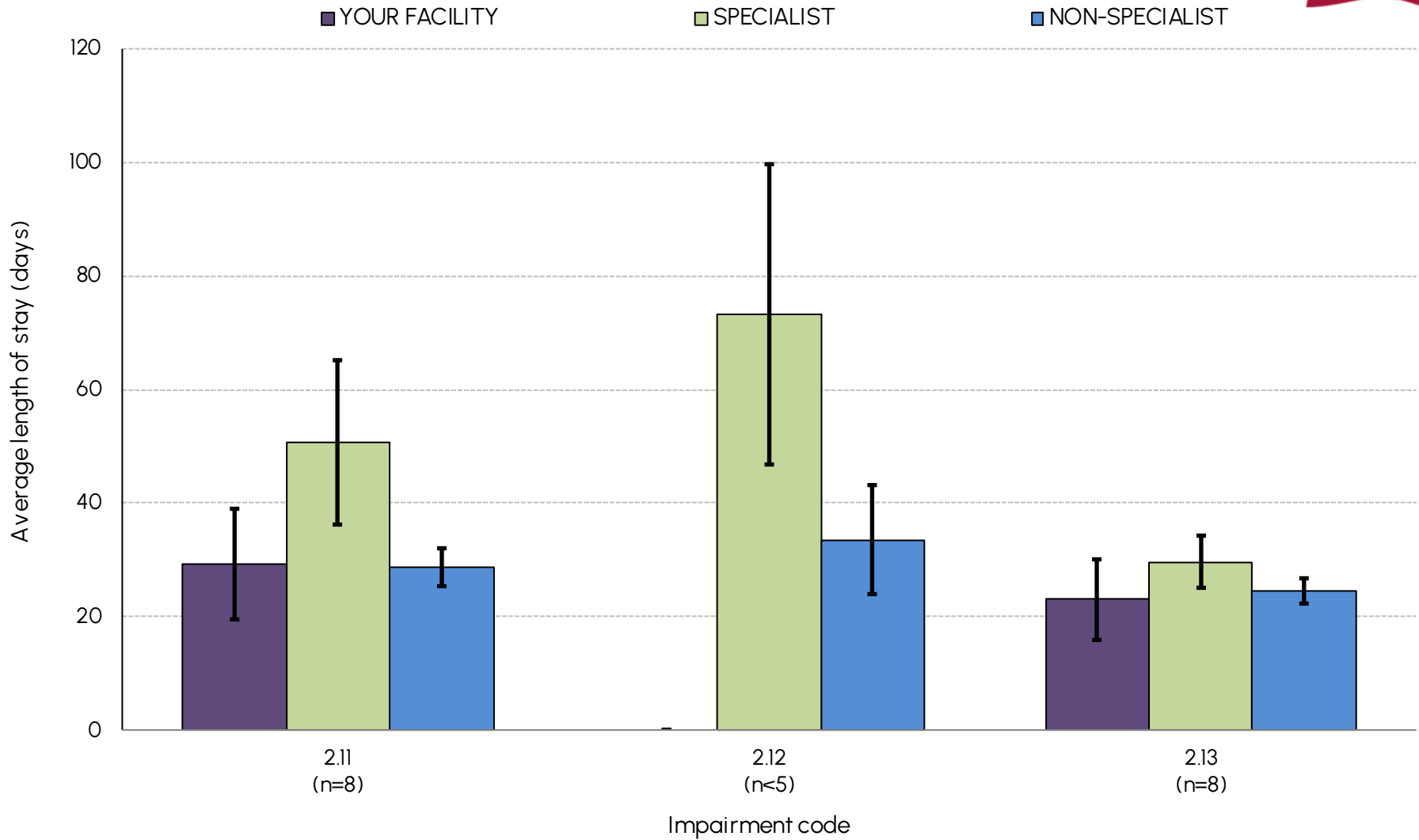
Note: First admission, completed episodes.

Traumatic brain injury average length of stay by impairment



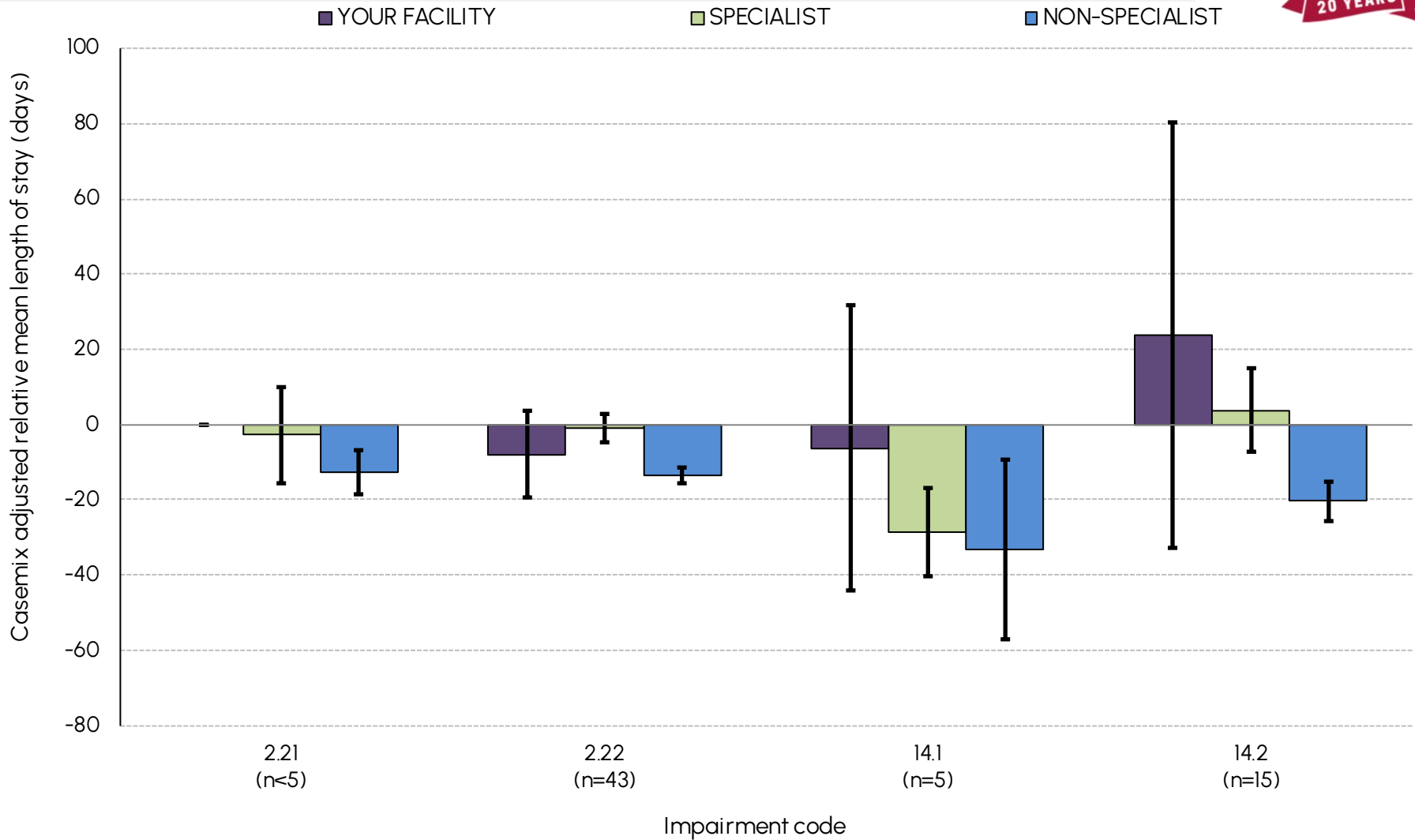
Note: First admission, completed episodes.

Non-traumatic brain injury average length of stay by impairment



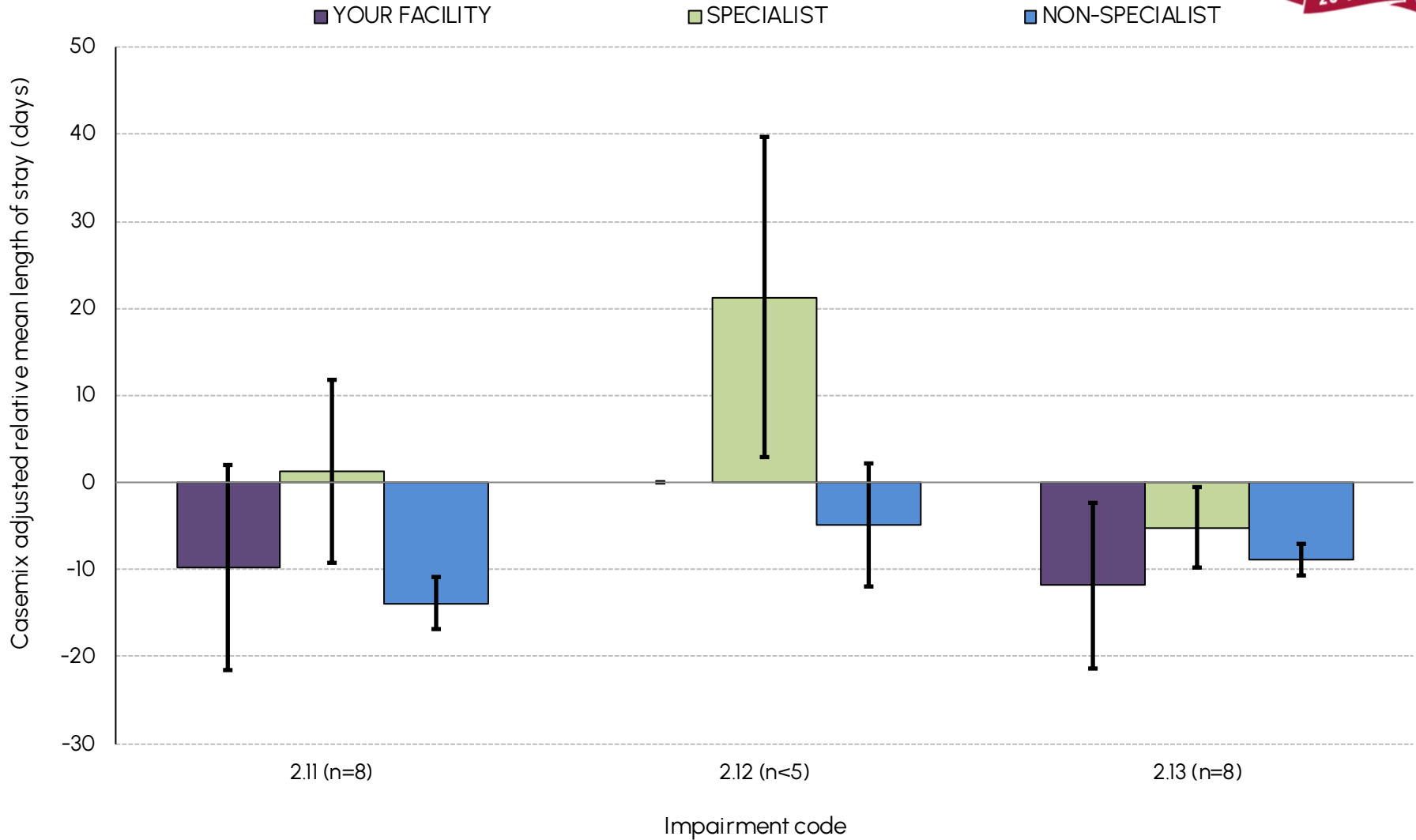
Note: First admission, completed episodes.

TBI casemix adjusted relative mean length of stay by impairment



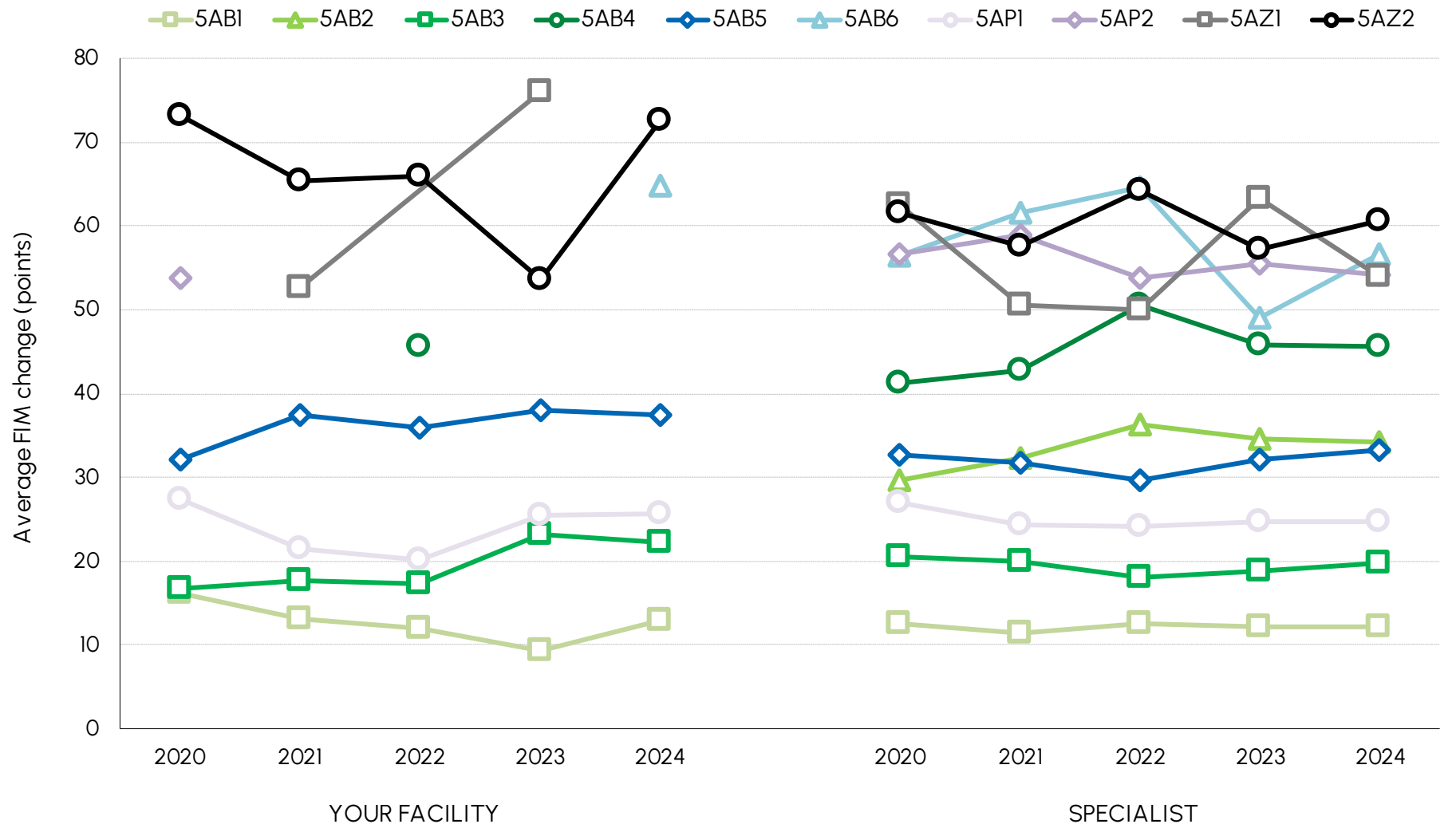
Note: First admission, completed episodes.

NTBI casemix adjusted relative mean length of stay by impairment



Note: First admission, completed episodes.

Average FIM change by AN-SNAP class over time



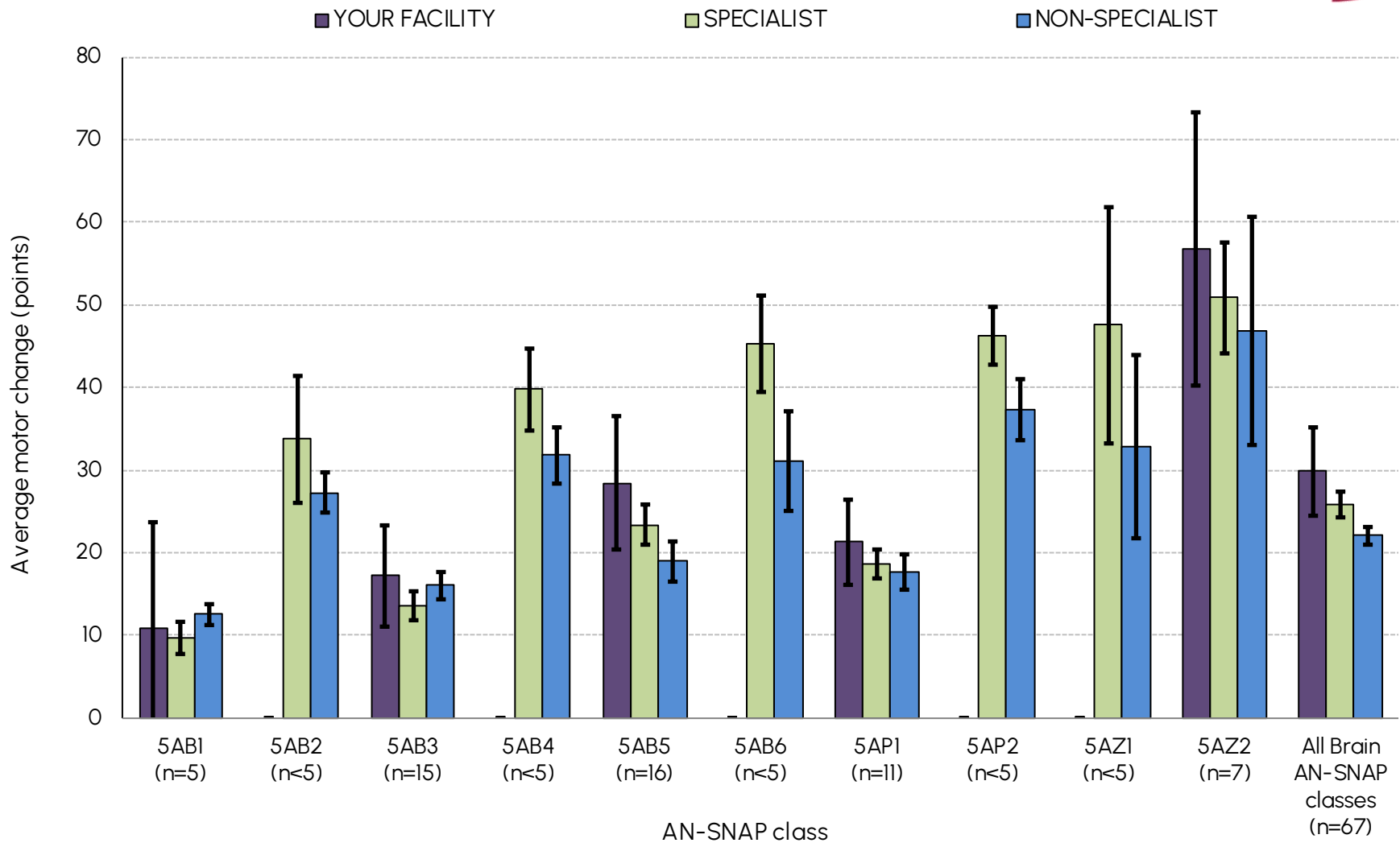
Note: First admission, completed episodes.

Average FIM change by AN-SNAP class over time

AN-SNAP class	YOUR FACILITY					SPECIALIST					NON-SPECIALIST				
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
5AB1 (BI, weighted FIM motor 59-91, FIM cog 27-35)	16.1	13.1	12.0	9.4	13.0	12.5	11.5	12.5	12.1	12.2	14.8	15.1	14.7	13.8	14.9
5AB2 (BI, weighted FIM motor 19-58, FIM cog 27-35)	—	—	—	—	—	29.7	32.3	36.2	34.6	34.2	28.3	26.2	28.3	28.3	29.8
5AB3 (BI, weighted FIM motor 50-91, FIM cog 19-26)	16.7	17.6	17.2	23.2	22.2	20.5	20.0	18.1	18.9	19.8	20.2	19.3	18.9	19.9	20.1
5AB4 (BI, weighted FIM motor 19-49, FIM cog 19-26)	—	—	45.7	—	—	41.3	42.8	50.7	45.9	45.7	31.8	30.9	32.3	33.6	33.8
5AB5 (BI, weighted FIM motor 39-91, FIM cog 5-18)	32.1	37.5	35.9	38.0	37.5	32.6	31.8	29.7	32.1	33.4	24.2	26.1	24.5	25.1	26.4
5AB6 (BI, weighted FIM motor 19-38, FIM cog 5-18)	—	—	—	—	64.8	56.4	61.5	64.7	49.0	56.6	33.3	33.8	33.9	37.2	38.9
5AP1 (MMT, weighted FIM motor 51-91)	27.4	21.4	20.2	25.5	25.6	27.1	24.2	24.1	24.7	24.7	23.9	22.7	18.8	22.6	20.1
5AP2 (MMT, weighted FIM motor 19-50)	53.8	—	—	—	—	56.6	58.9	53.8	55.5	54.3	45.4	42.8	44.1	40.4	40.1
5AZ1 (BI or MMT, age ≥ 59, weighted FIM motor 13-18)	—	52.7	—	76.0	—	62.6	50.7	50.1	63.4	53.9	34.0	33.6	32.0	35.5	38.9
5AZ2 (BI or MMT, age ≤ 58, weighted FIM motor 13-18)	73.3	65.4	66.0	53.6	72.6	61.7	57.6	64.3	57.2	60.7	44.9	40.6	44.9	39.5	44.8
All Brain AN-SNAP classes	33.5	33.2	30.7	32.1	35.1	34.1	32.7	33.9	31.3	32.1	24.5	24.0	24.3	24.7	25.3

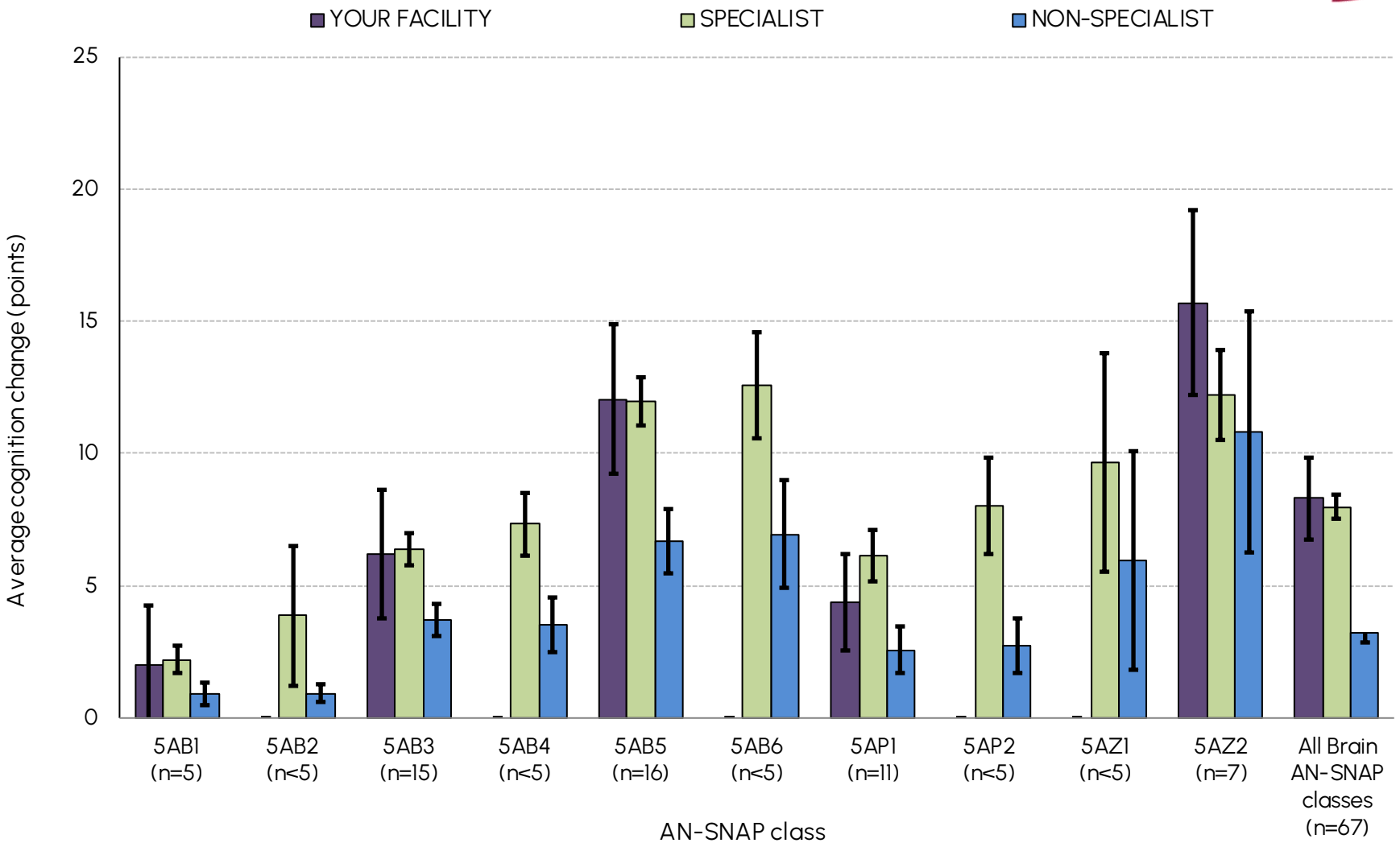
Note: First admission, completed episodes.

Traumatic brain injury average FIM motor change by AN-SNAP class



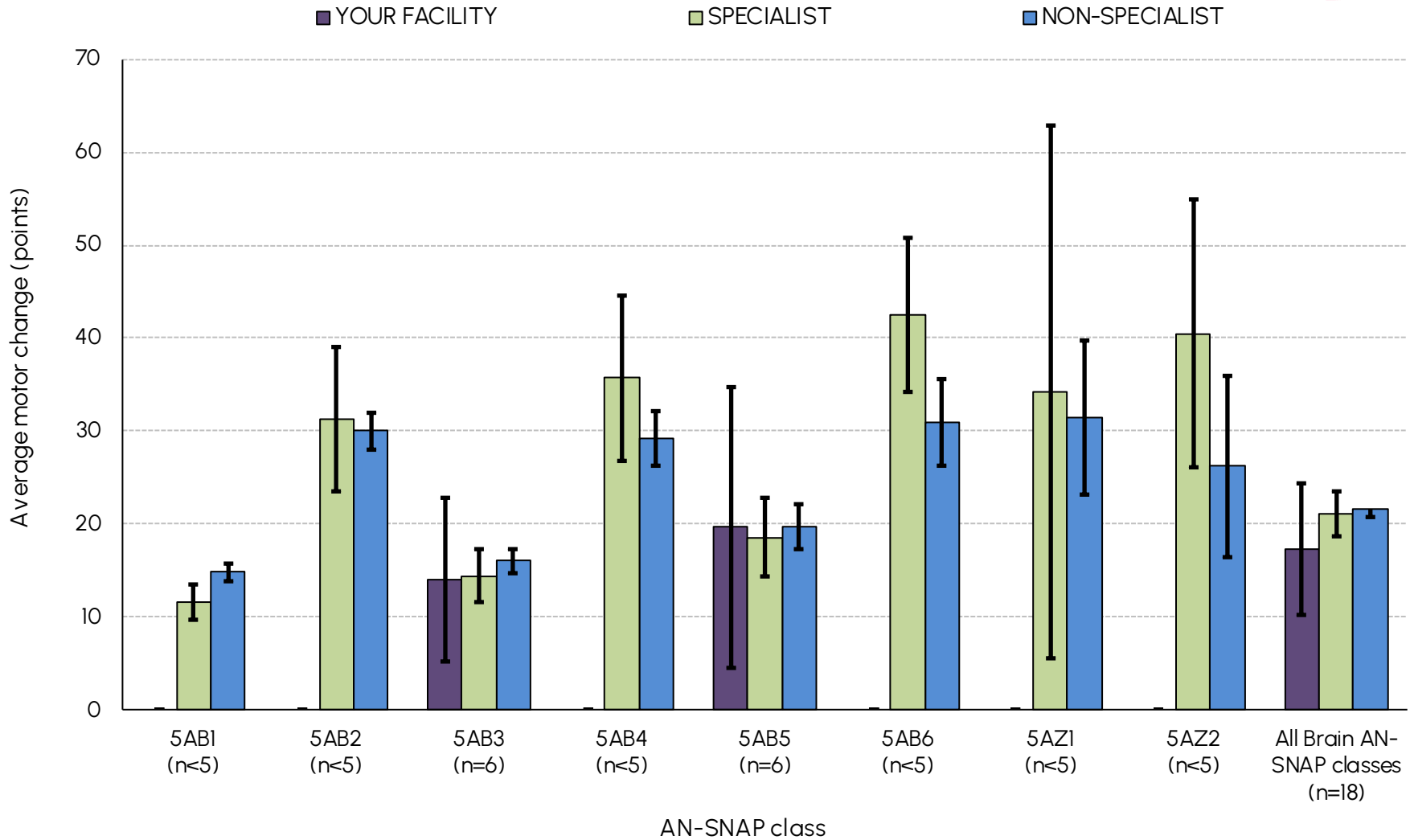
Note: First admission, completed episodes.

Traumatic brain injury average FIM cognition change by AN-SNAP class



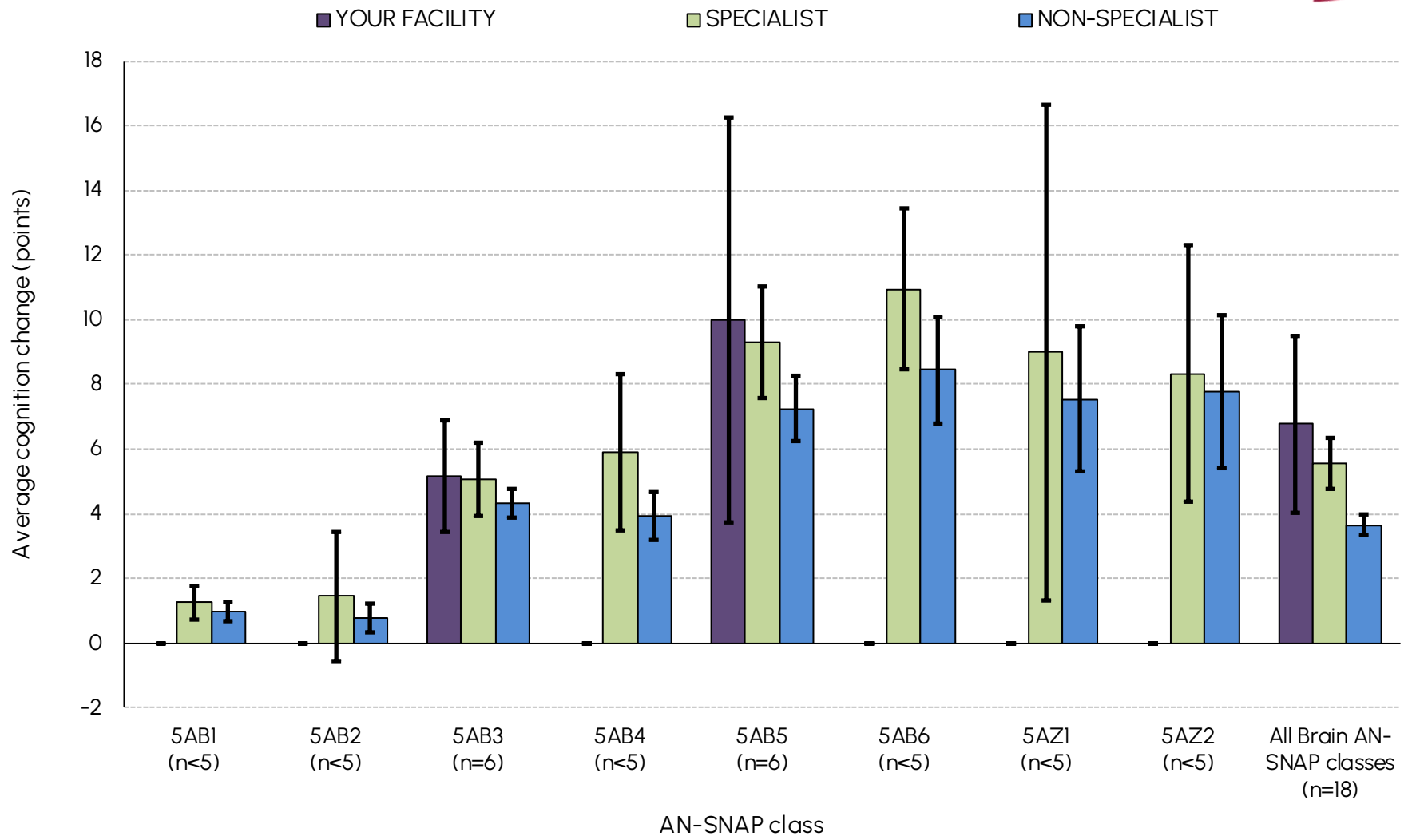
Note: First admission, completed episodes.

Non-traumatic brain injury average FIM motor change by AN-SNAP class



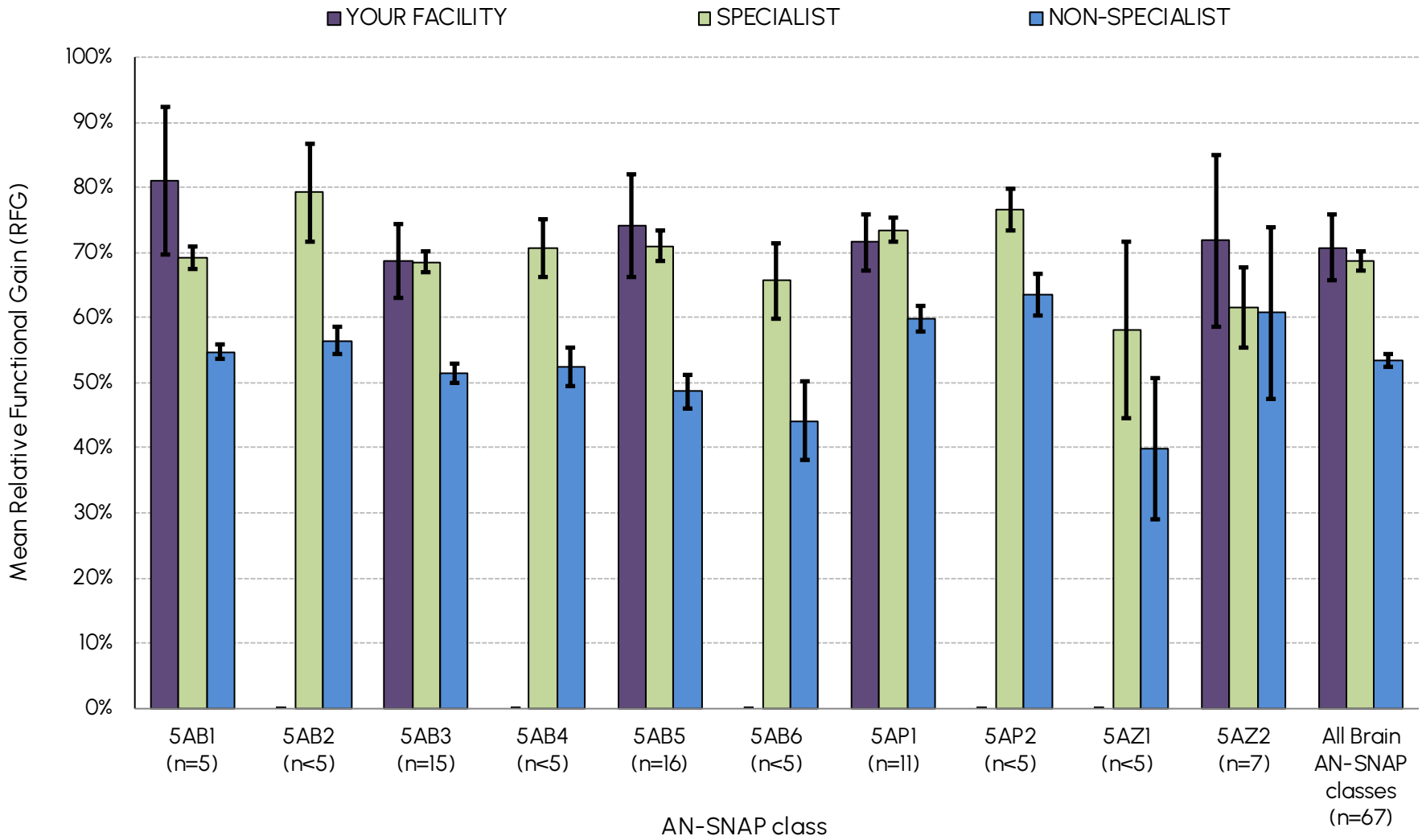
Note: First admission, completed episodes.

Non-traumatic brain injury average FIM cognition change by AN-SNAP class



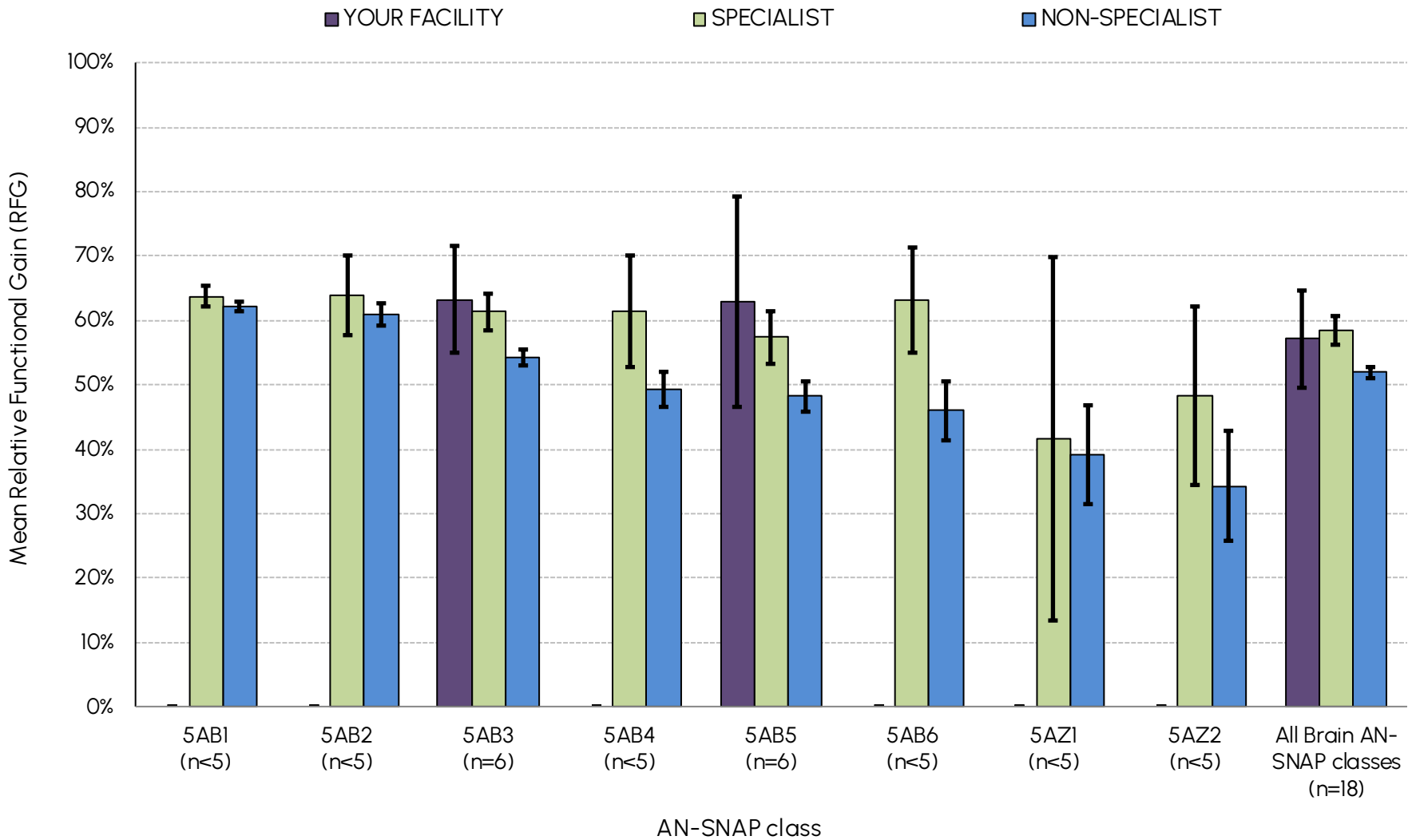
Note: First admission, completed episodes.

Traumatic brain injury mean relative functional gain by AN-SNAP class



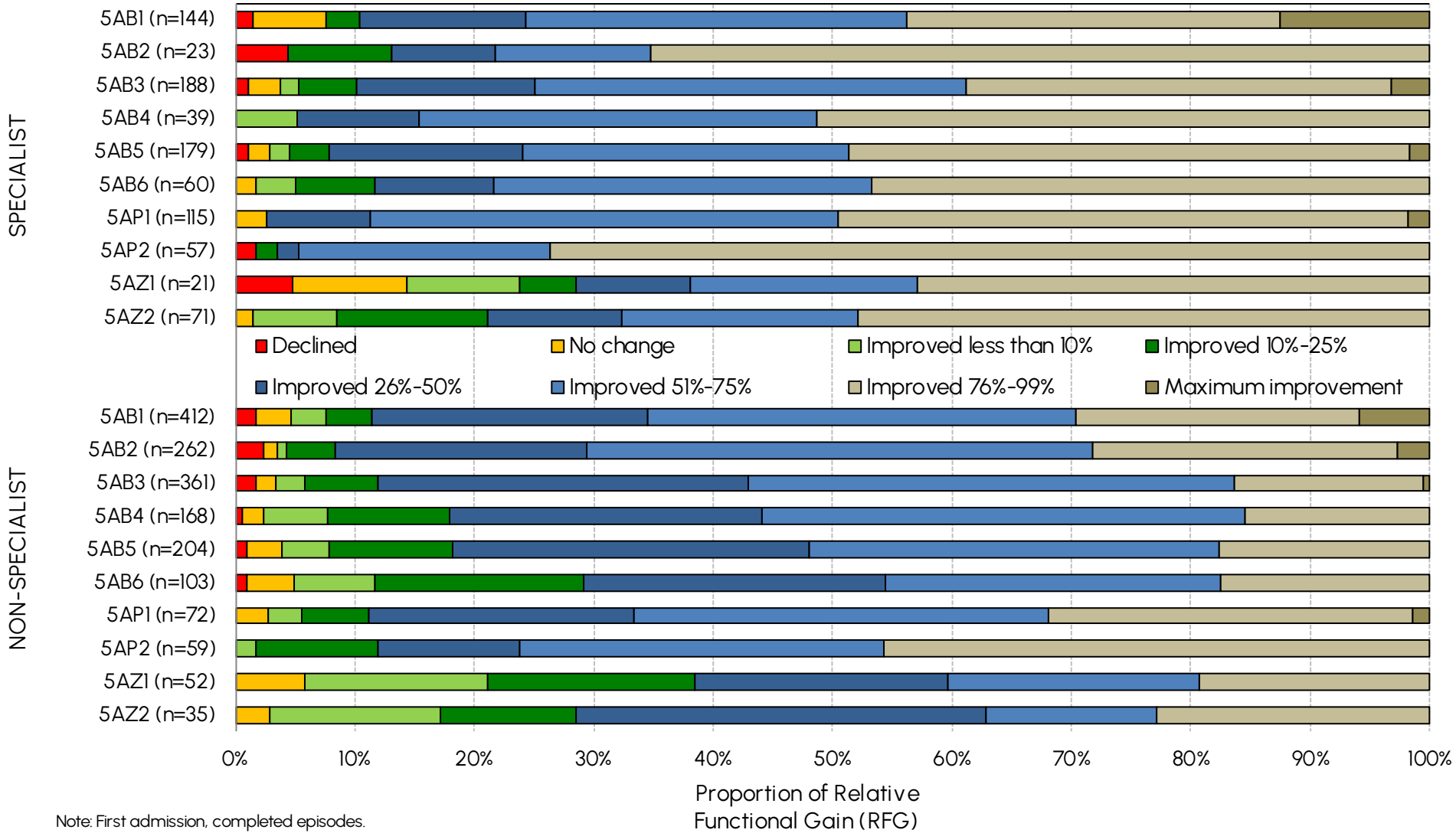
Note: First admission, completed episodes.

Non-traumatic brain injury average relative functional gain by AN-SNAP class



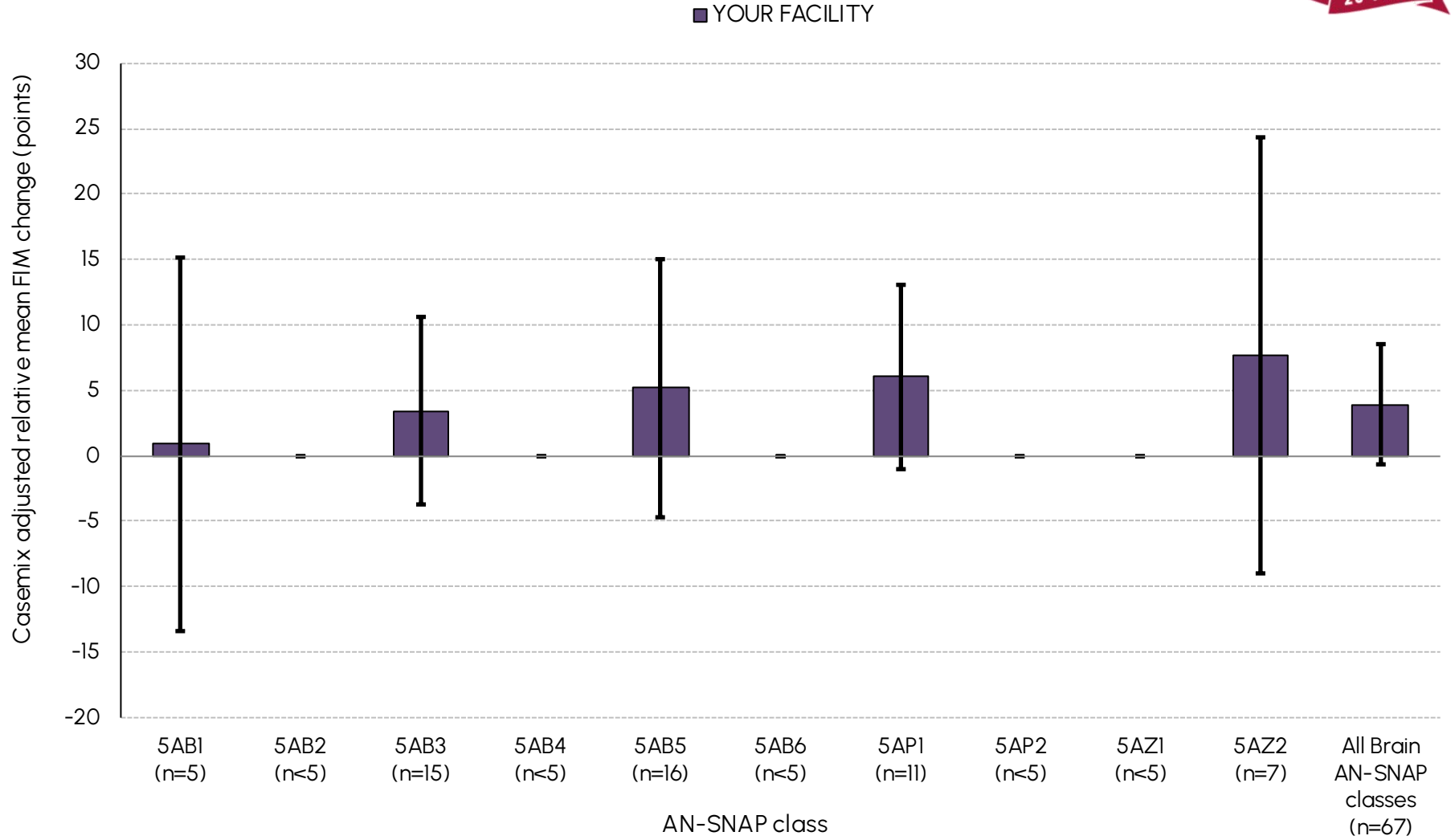
Note: First admission, completed episodes.

Relative functional gain by AN-SNAP class



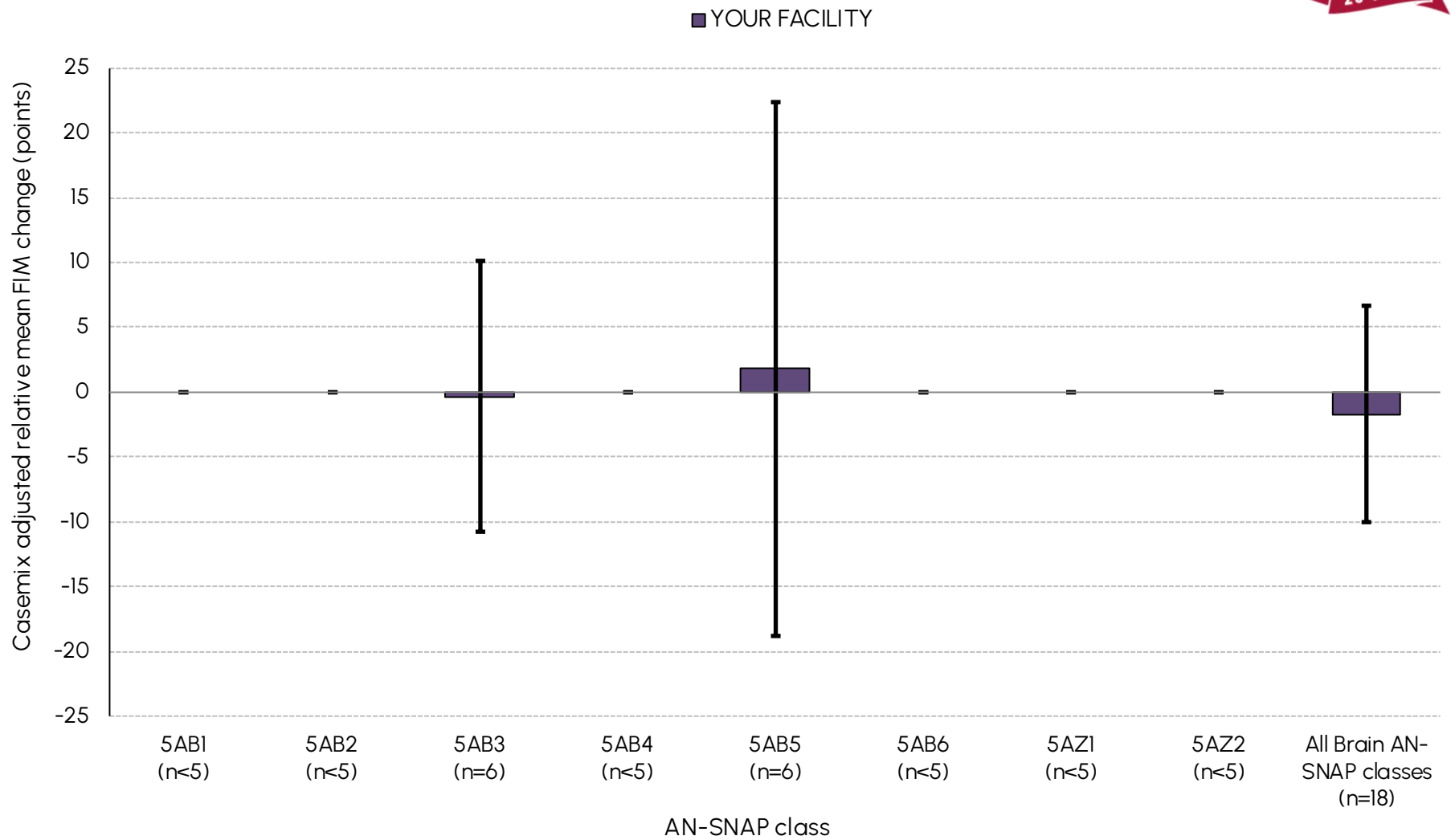
Note: First admission, completed episodes.

TBI casemix adjusted relative mean FIM change by AN-SNAP class



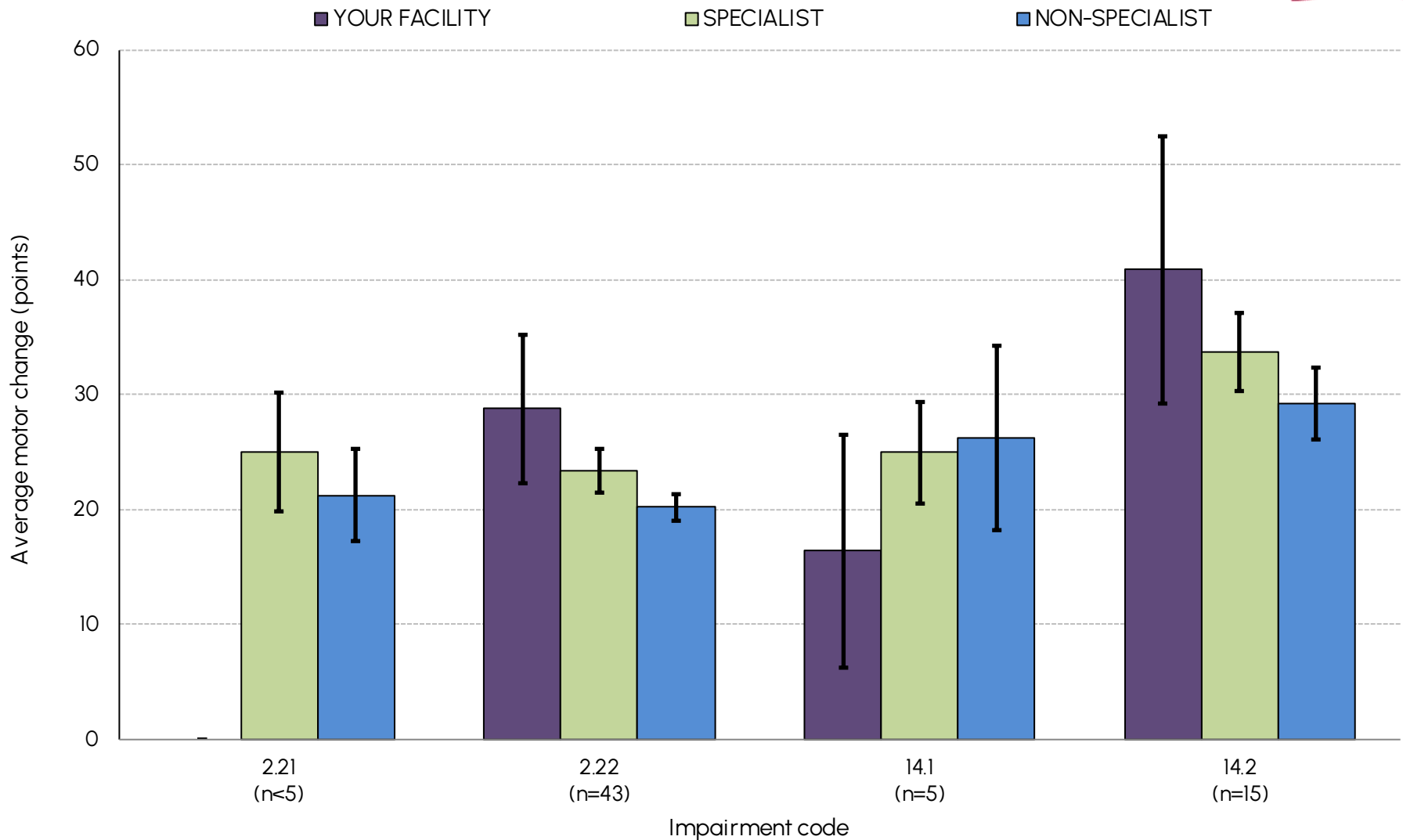
Note: First admission, completed episodes.

NTBI casemix adjusted relative mean FIM change by AN-SNAP class



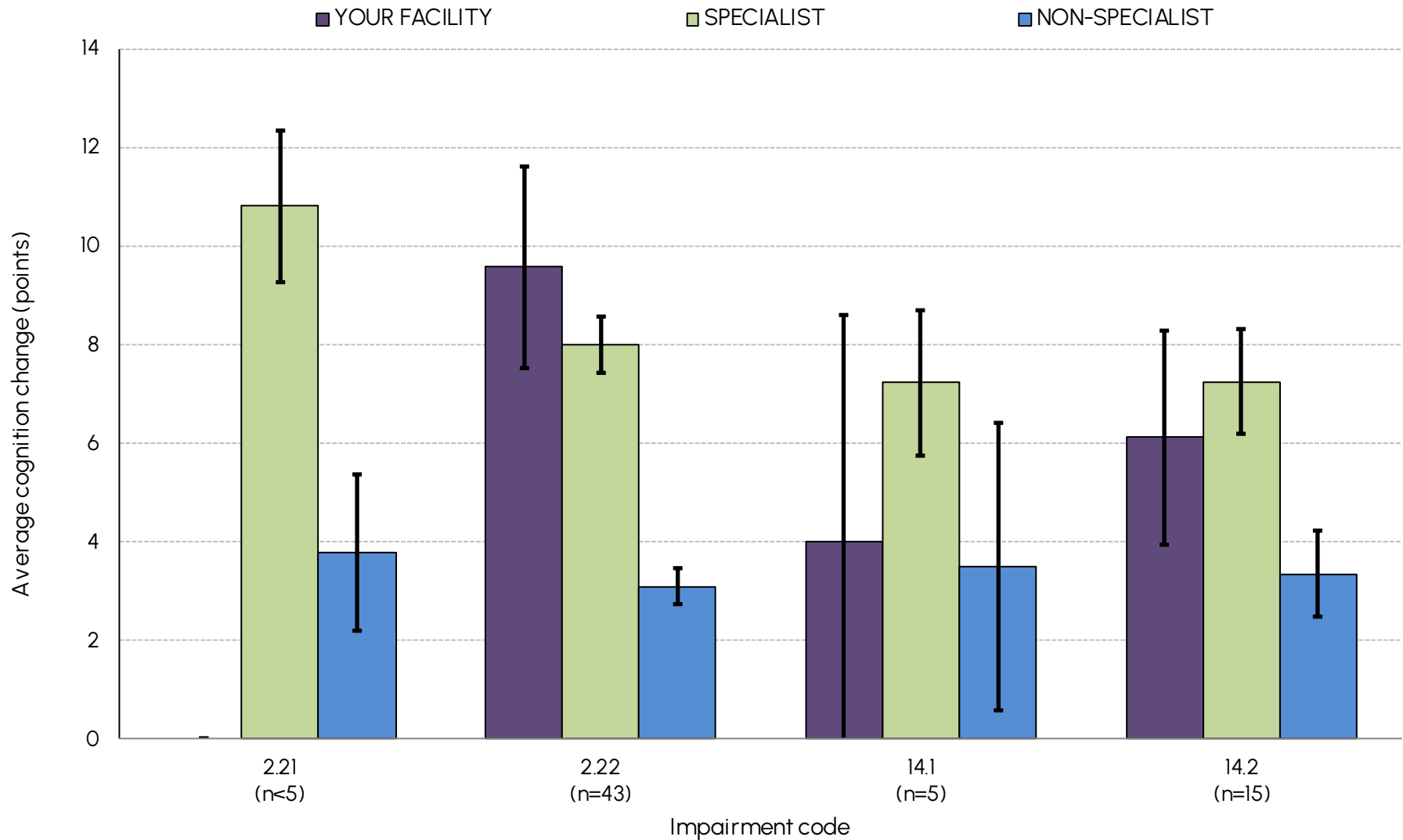
Note: First admission, completed episodes.

Traumatic brain injury average FIM motor change by impairment



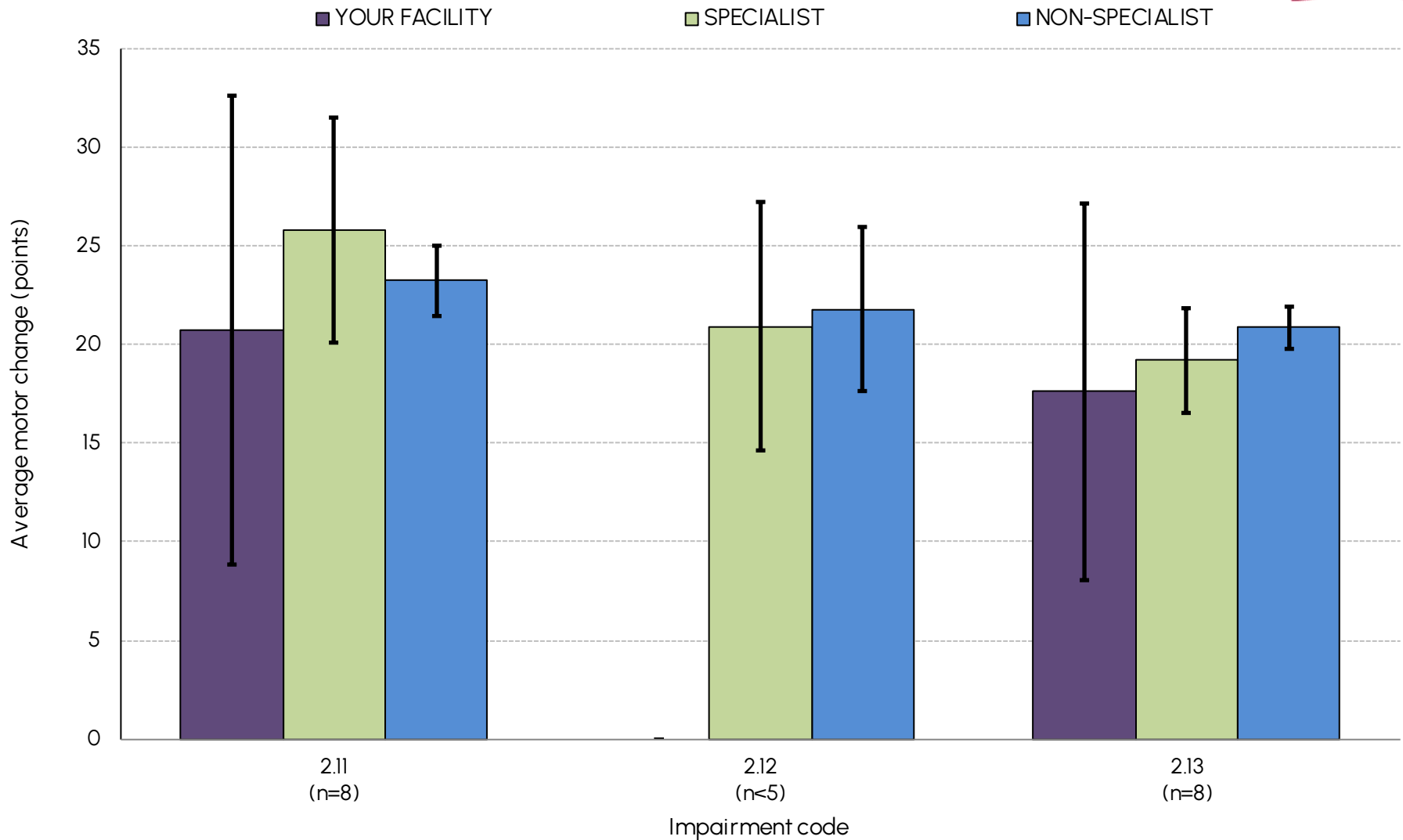
Note: First admission, completed episodes.

Traumatic brain injury average FIM cognition change by impairment



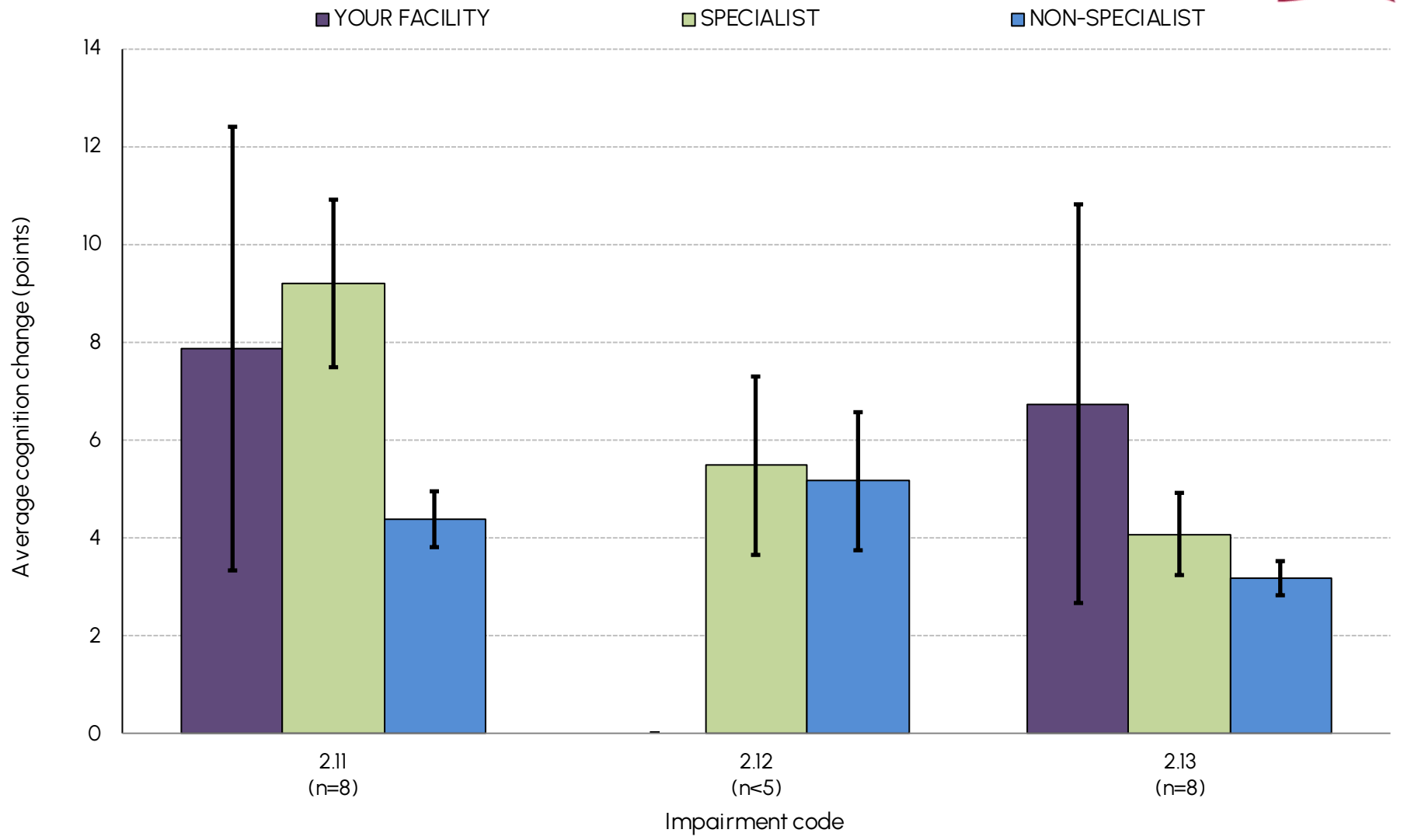
Note: First admission, completed episodes.

Non-traumatic brain injury average FIM motor change by impairment



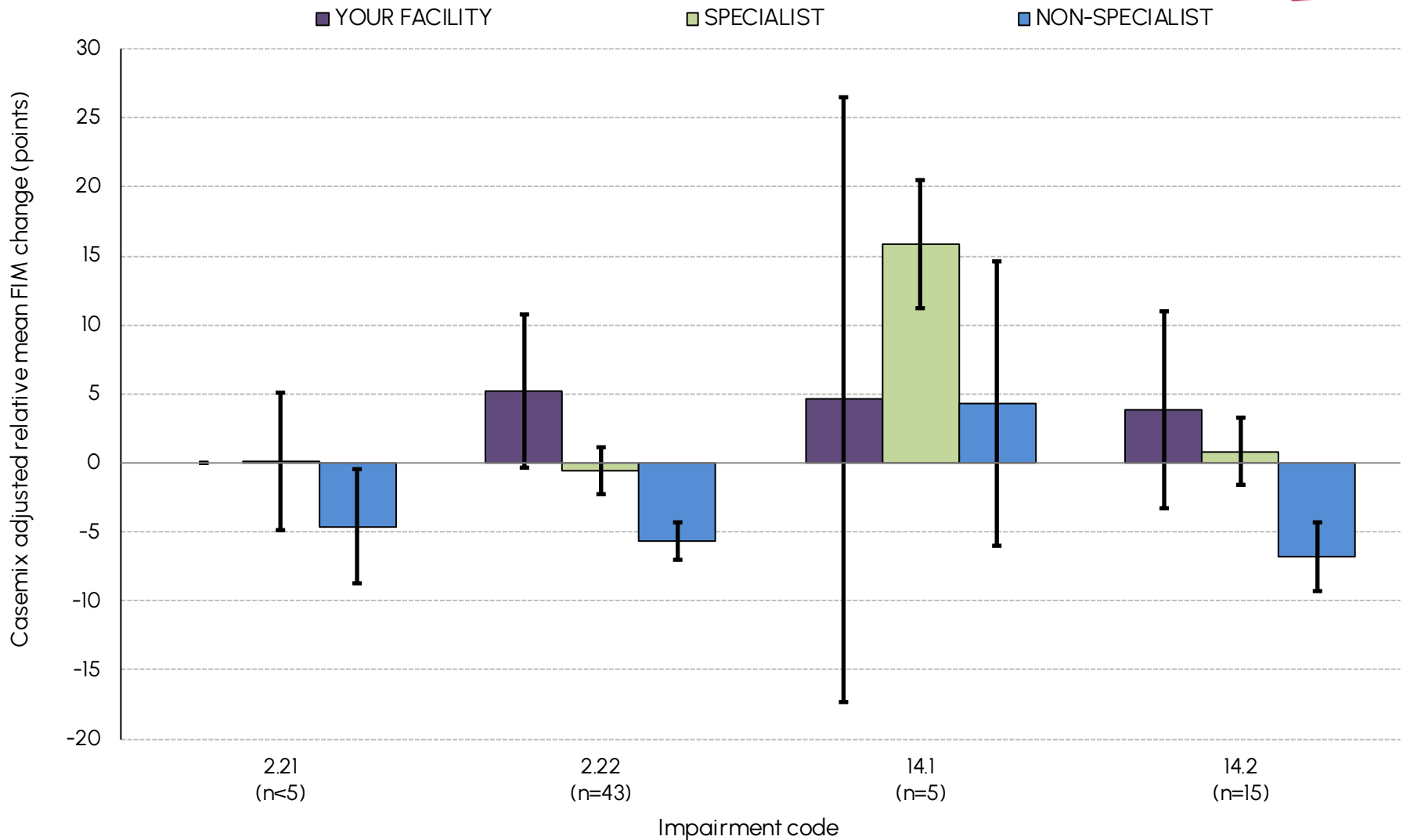
Note: First admission, completed episodes.

Non-traumatic brain injury average FIM cognition change by impairment



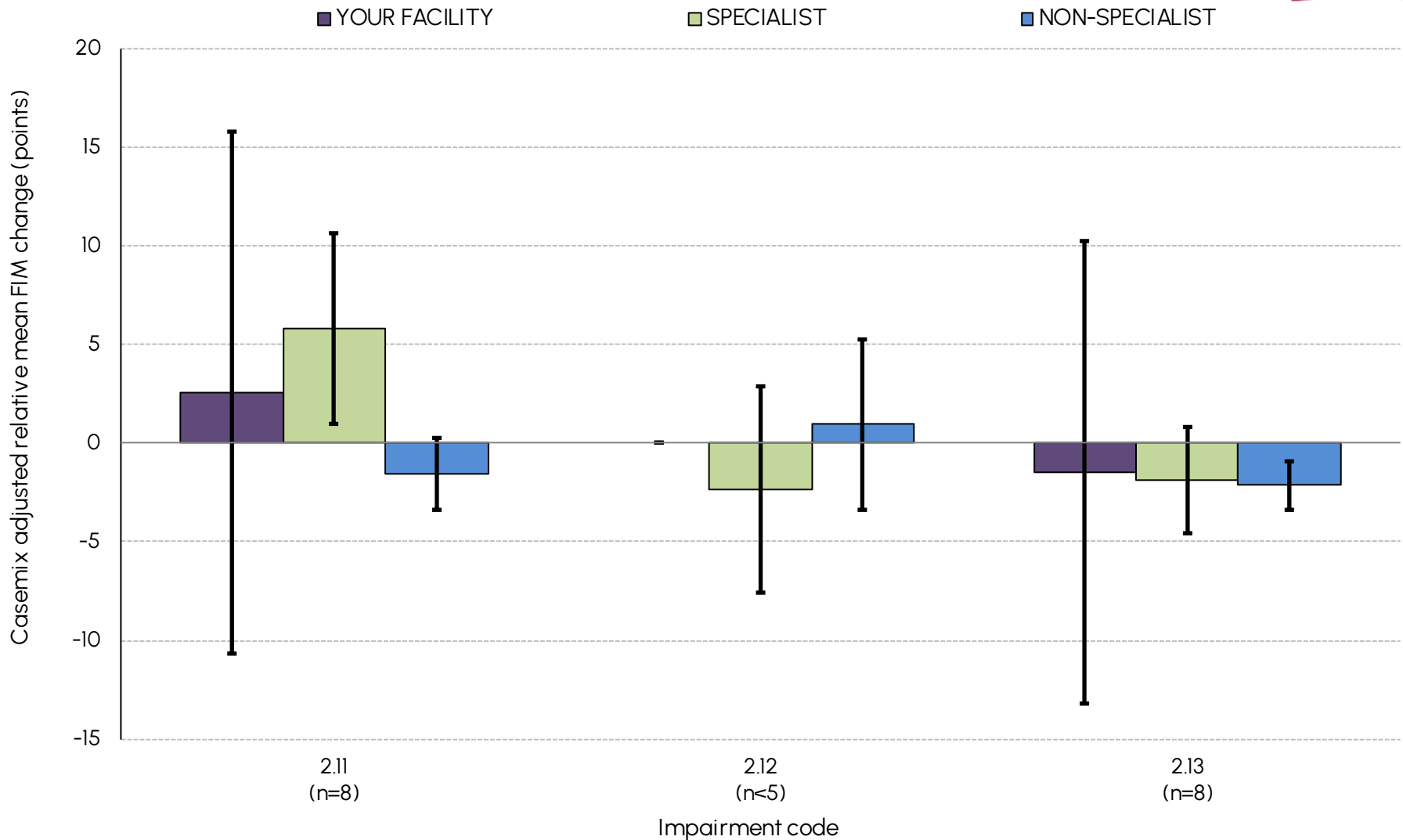
Note: First admission, completed episodes.

TBI casemix adjusted relative mean FIM change by impairment



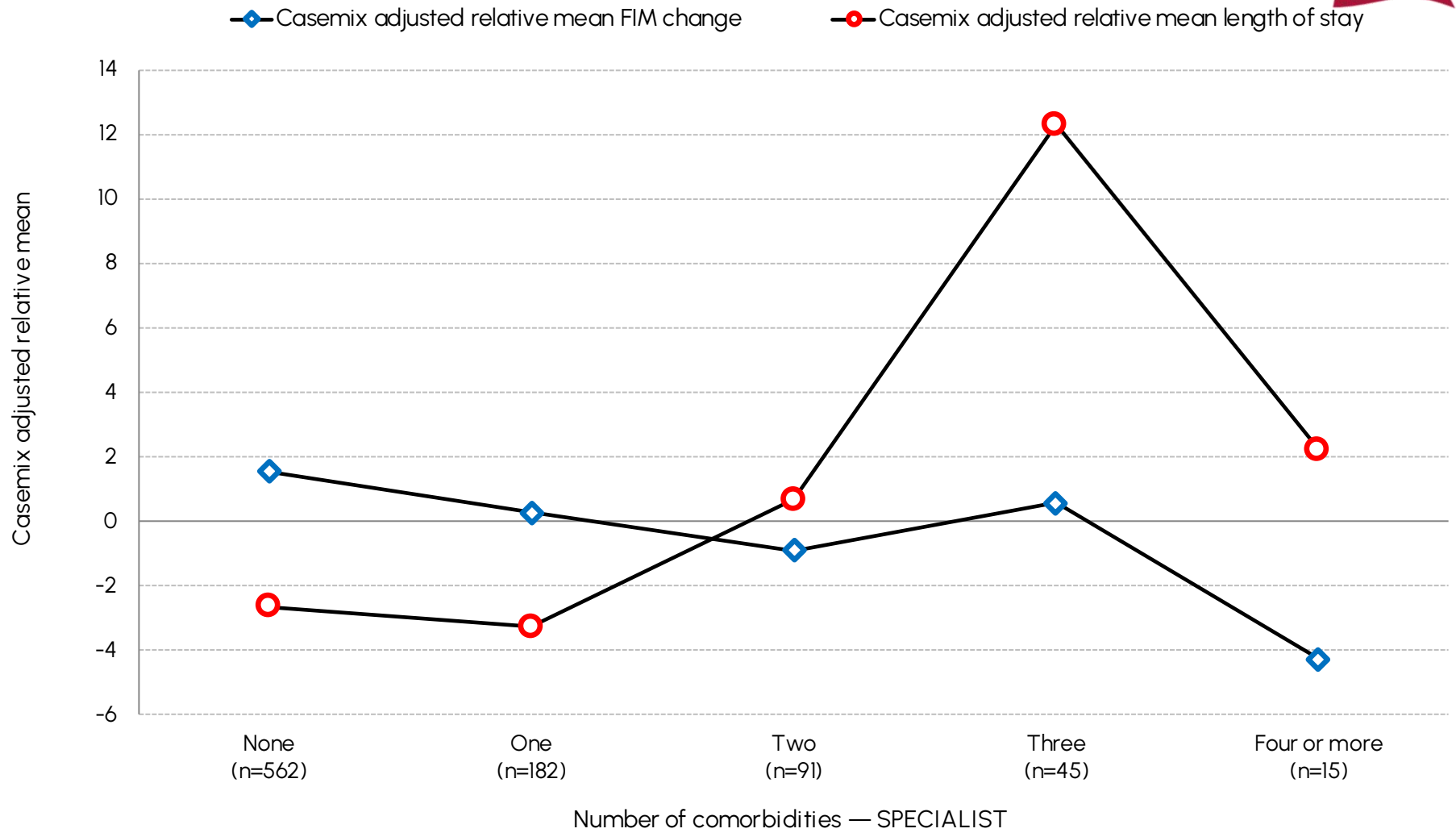
Note: First admission, completed episodes.

NTBI casemix adjusted relative mean FIM change by impairment



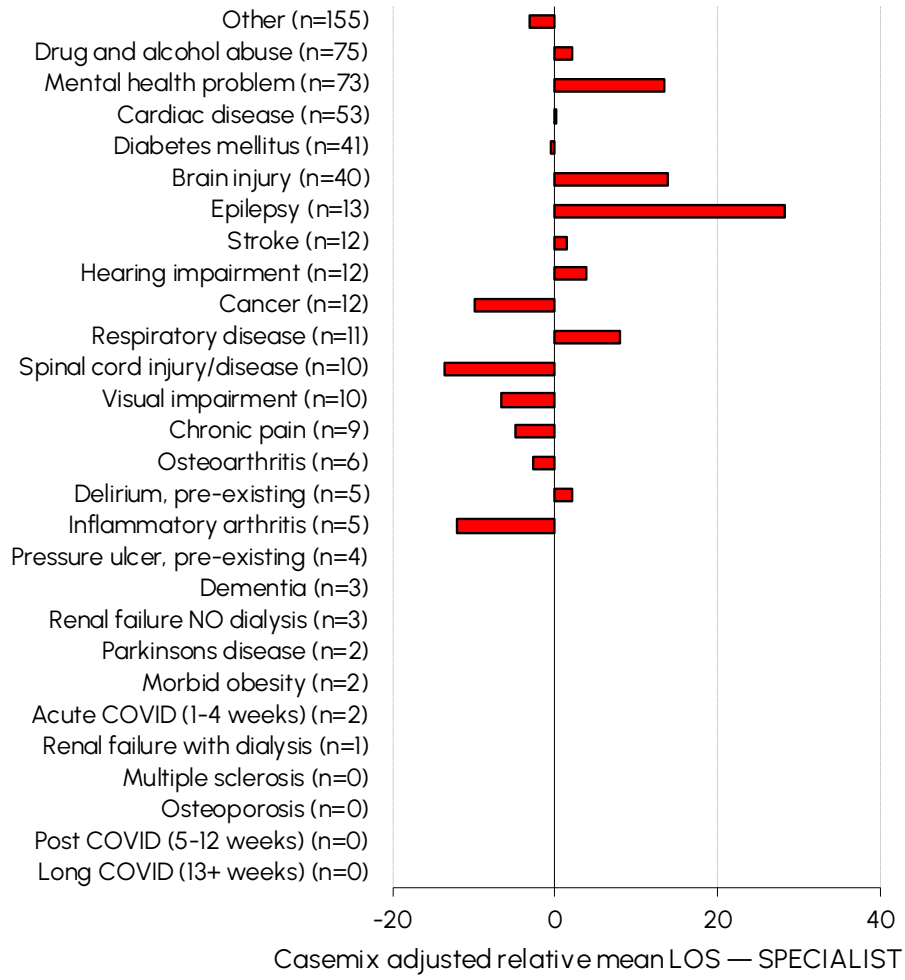
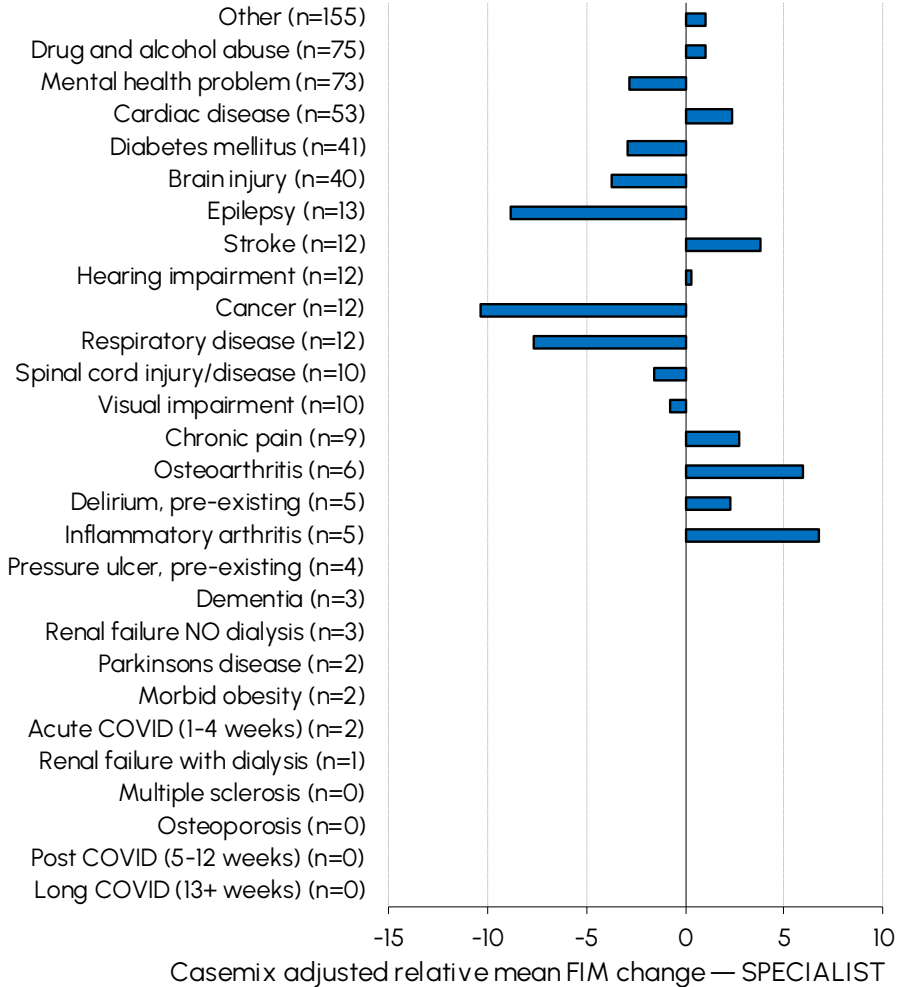
Note: First admission, completed episodes.

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



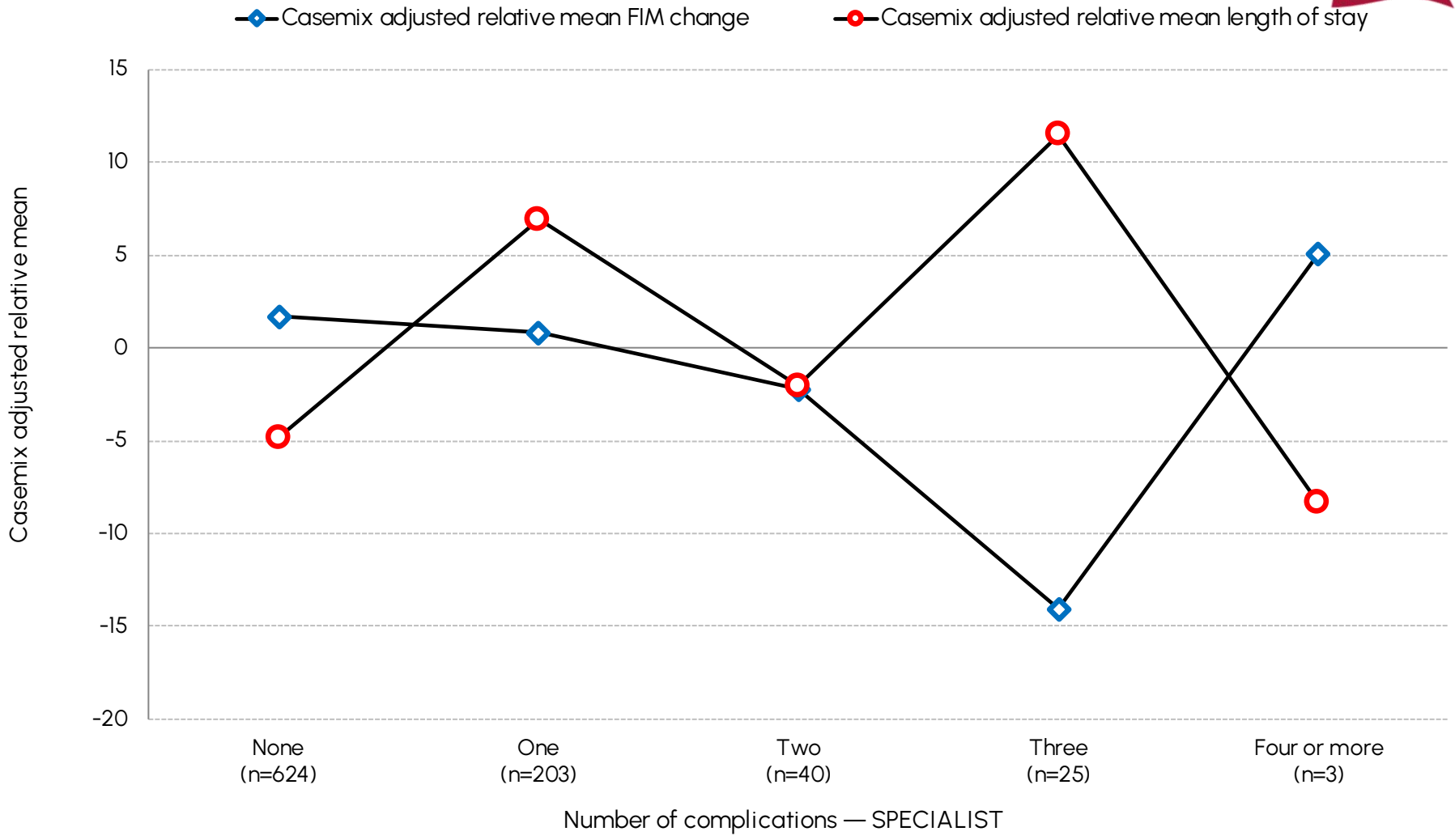
Note: First admission, completed episodes.

Casemix adjusted relative mean length of stay and FIM change by type of comorbidity



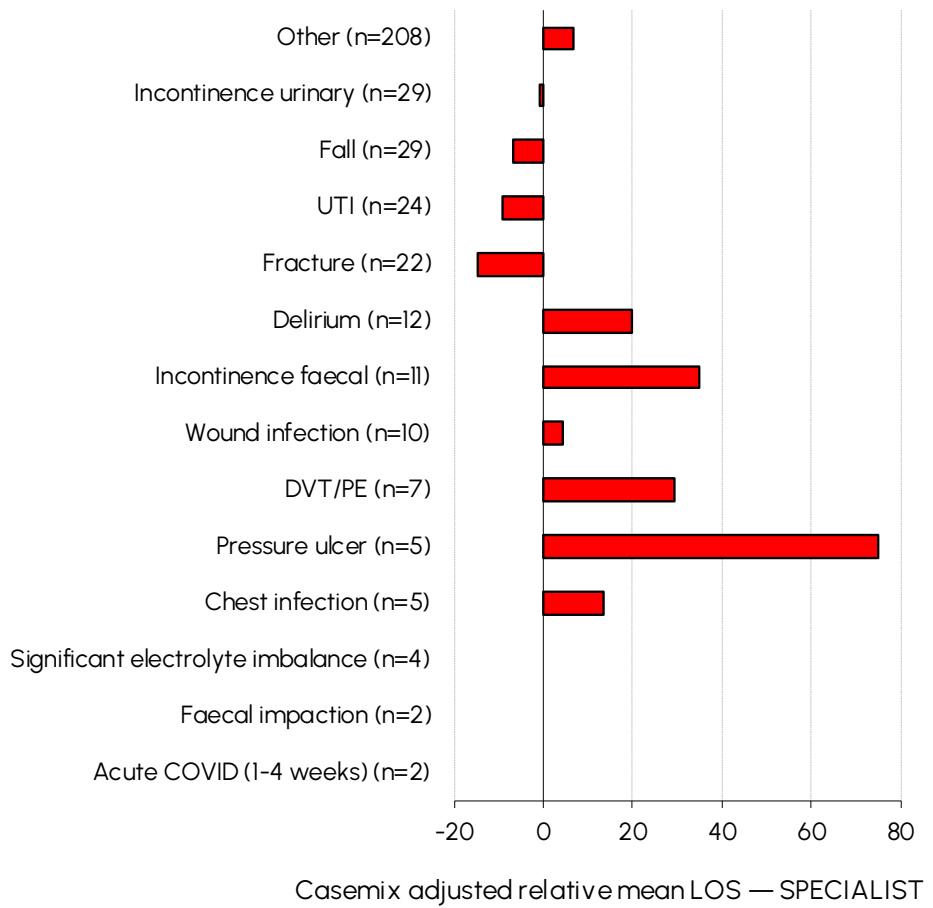
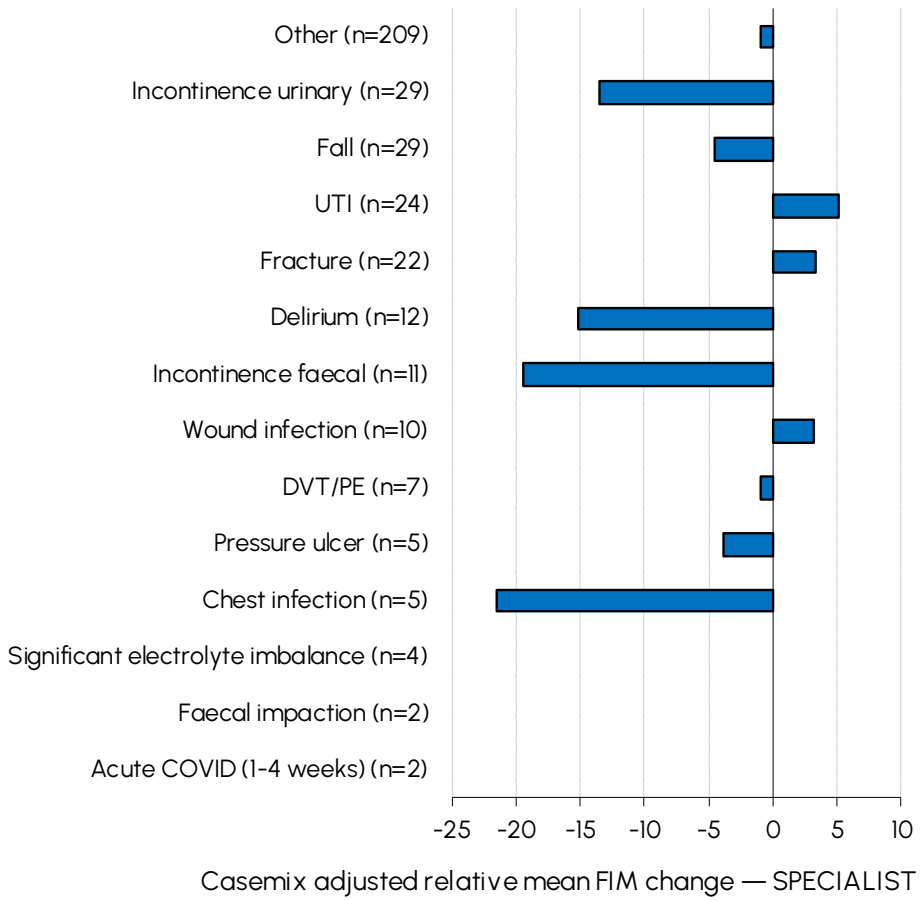
Note: First admission, completed episodes.

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



Note: First admission, completed episodes.

Casemix adjusted relative mean length of stay and FIM change by type of complication



Note: First admission, completed episodes.



Explanatory data

Type of accommodation prior to impairment

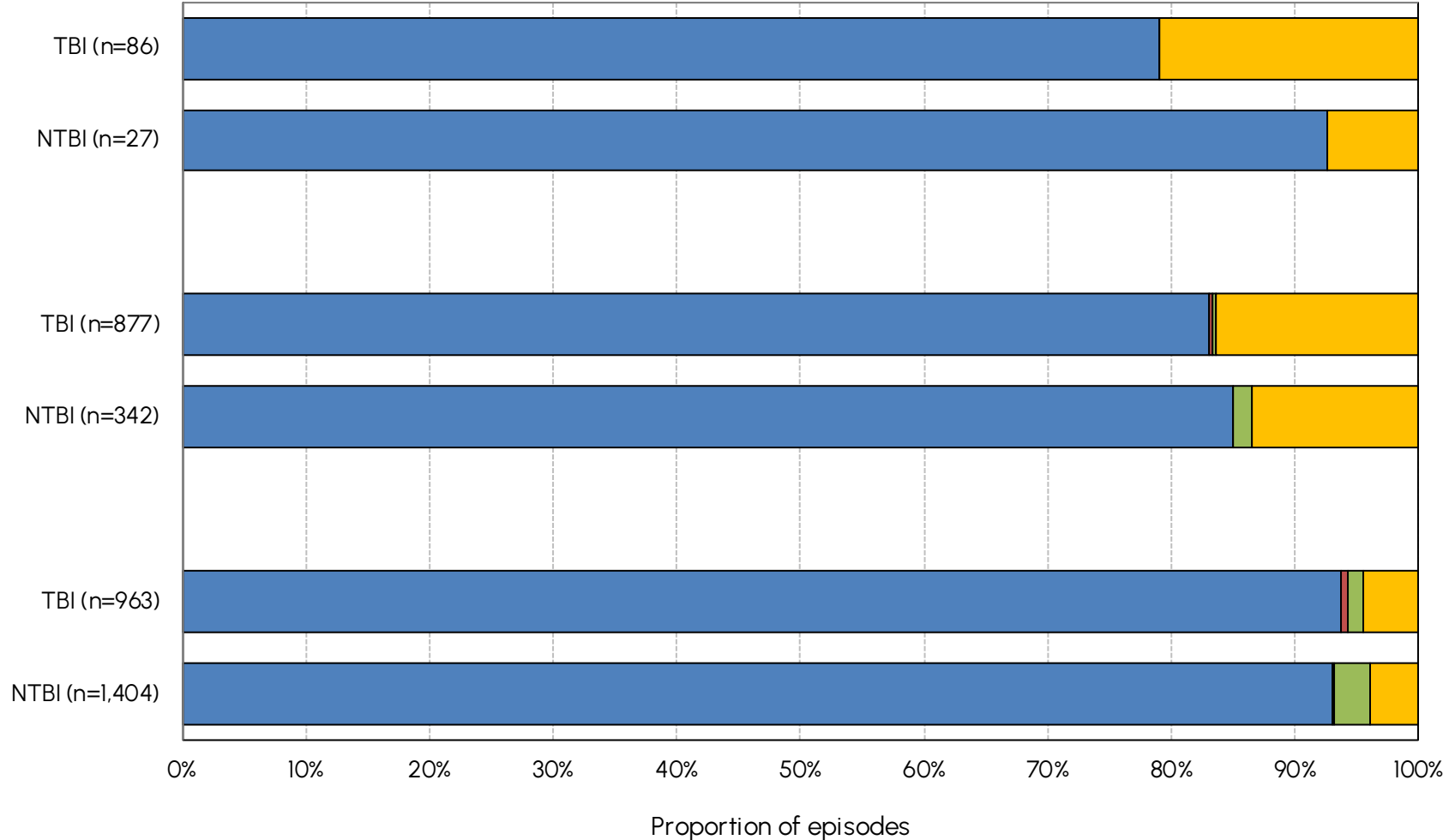


■ Private Residence
 ■ Rest home (NZ only)
 ■ Residential Aged Care (AU) / 24hr Nursing Care (NZ)
 ■ Other

YOUR FACILITY

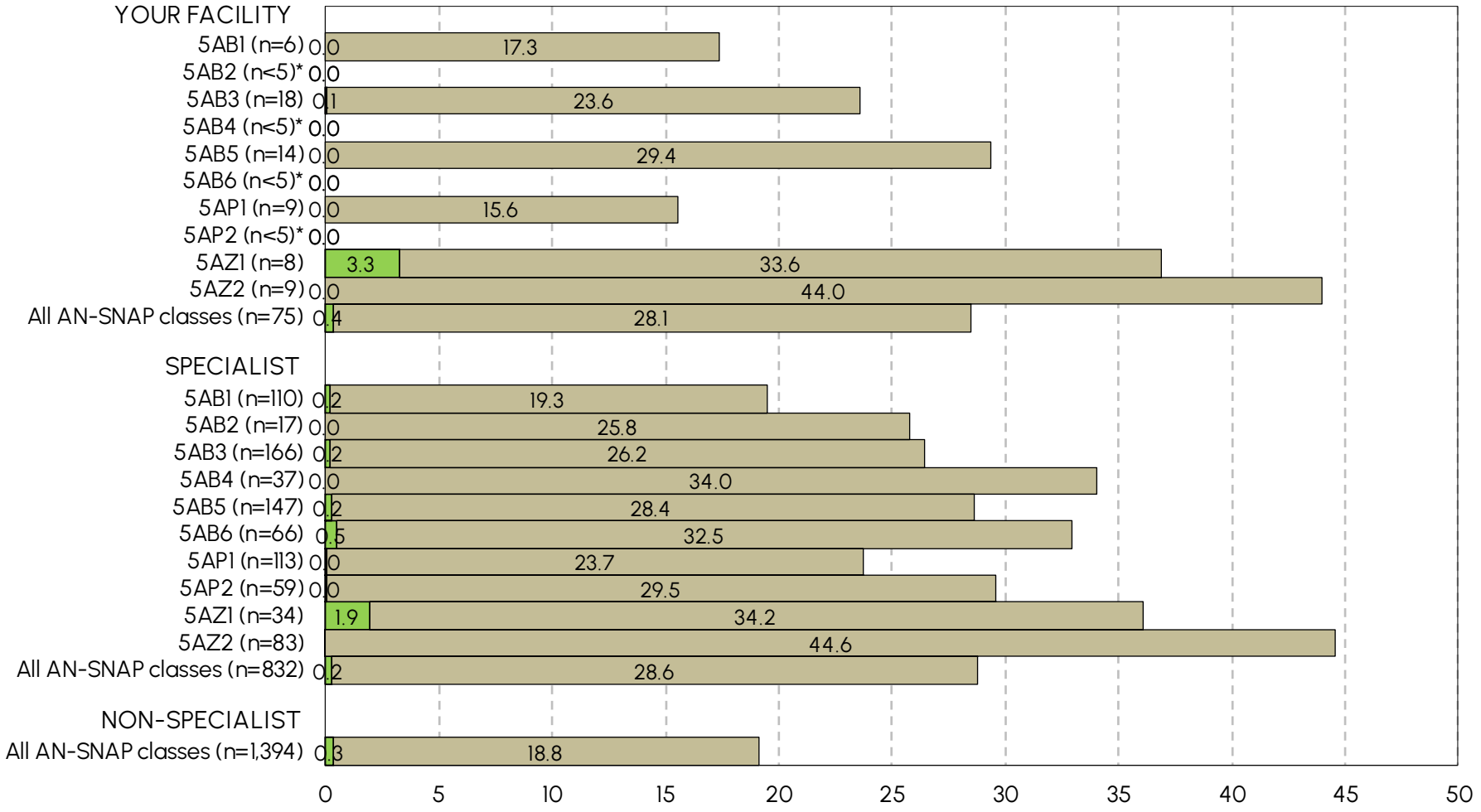
SPECIALIST

NON-SPECIALIST



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

■ Days from injury to acute admission ■ Days from acute admission to rehabilitation episode start



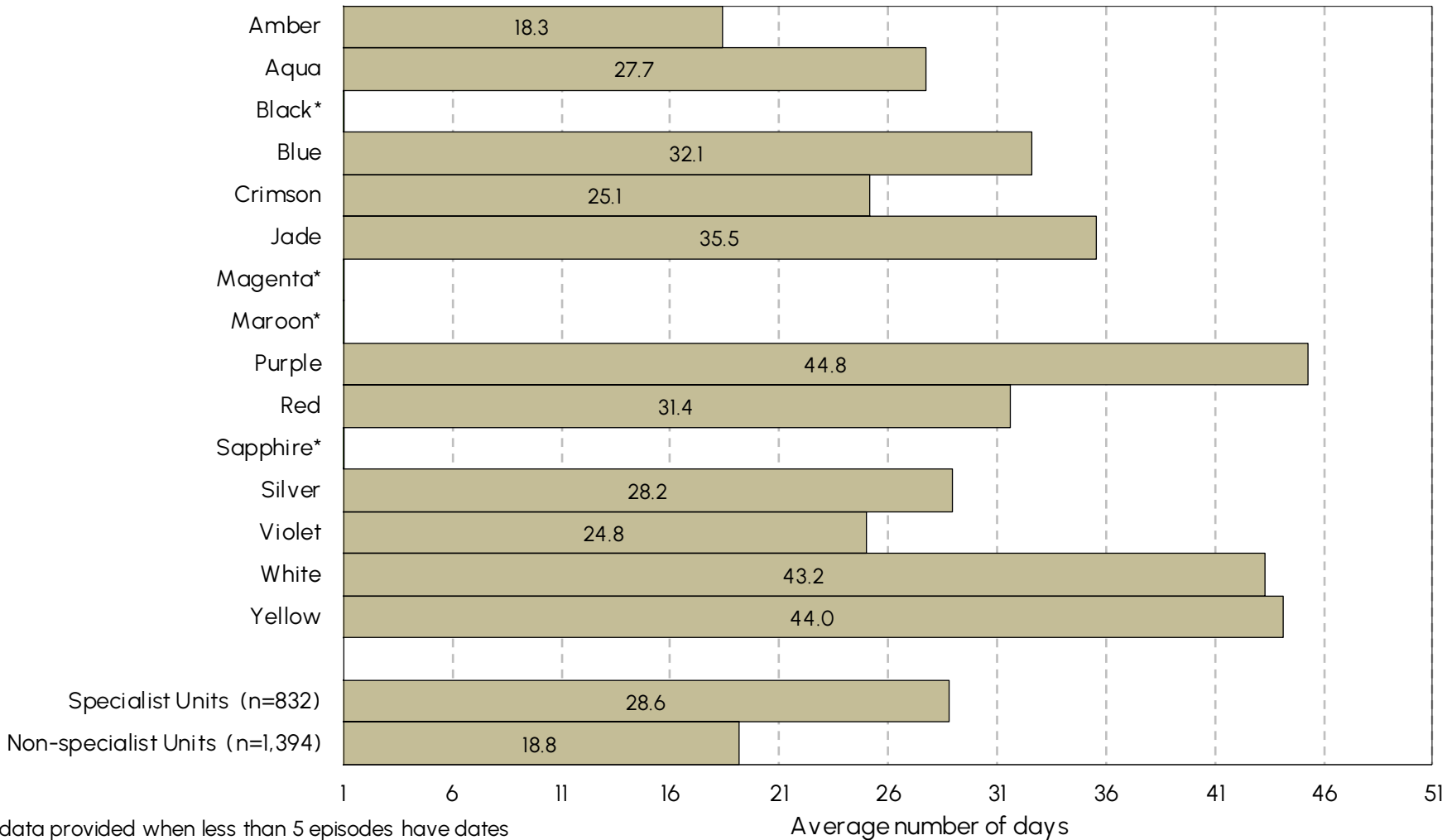
*No data provided when less than 5 episodes have dates

Average number of days

Note: First admission episodes.

Days from injury to episode start with an acute admission by specialist facility

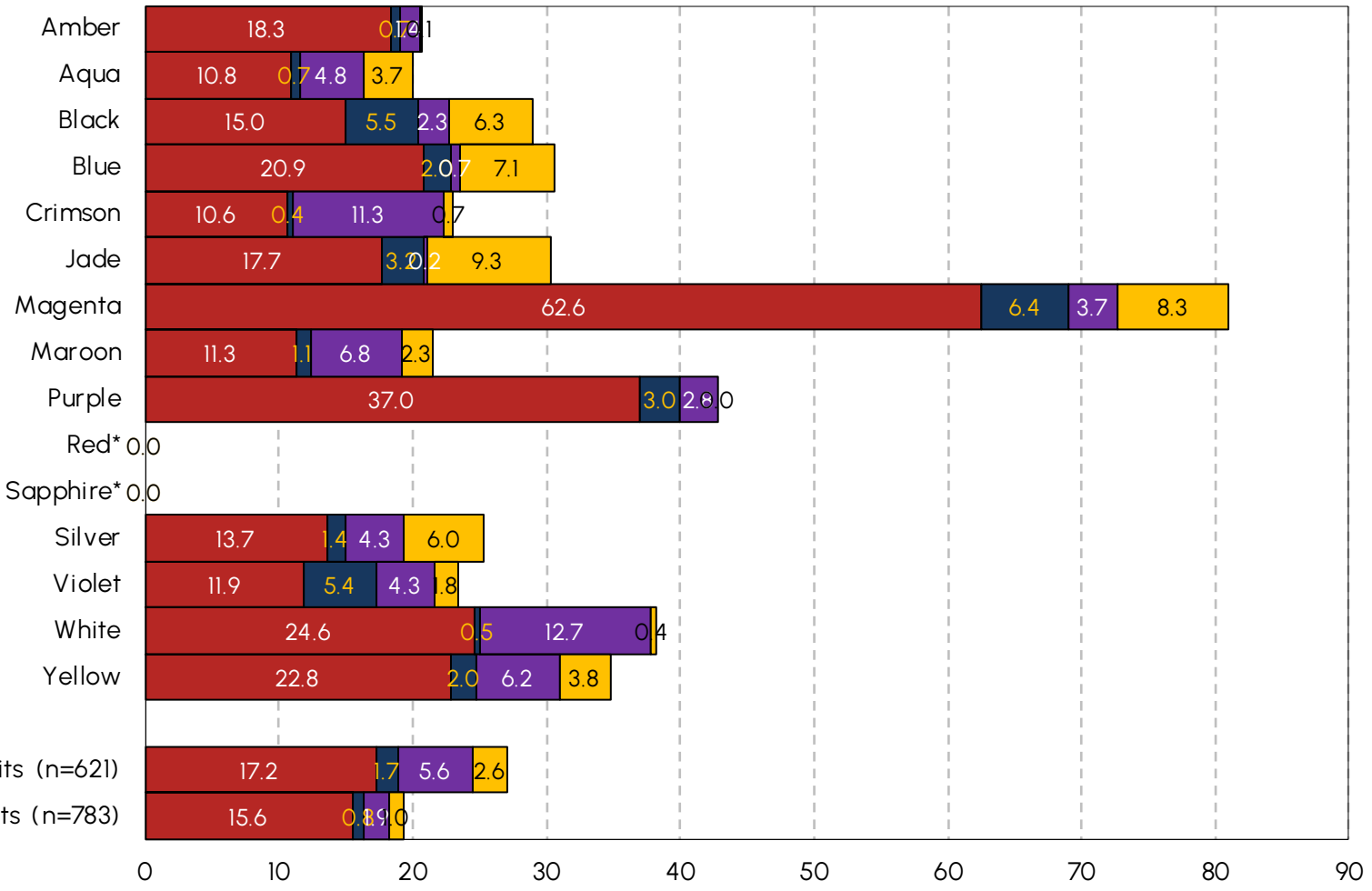
■ Days from injury to acute admission
 ■ Days from acute admission to rehabilitation episode start



*No data provided when less than 5 episodes have dates
 Note: First admission episodes.

Days from brain injury to episode start by specialist facility - TBI

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



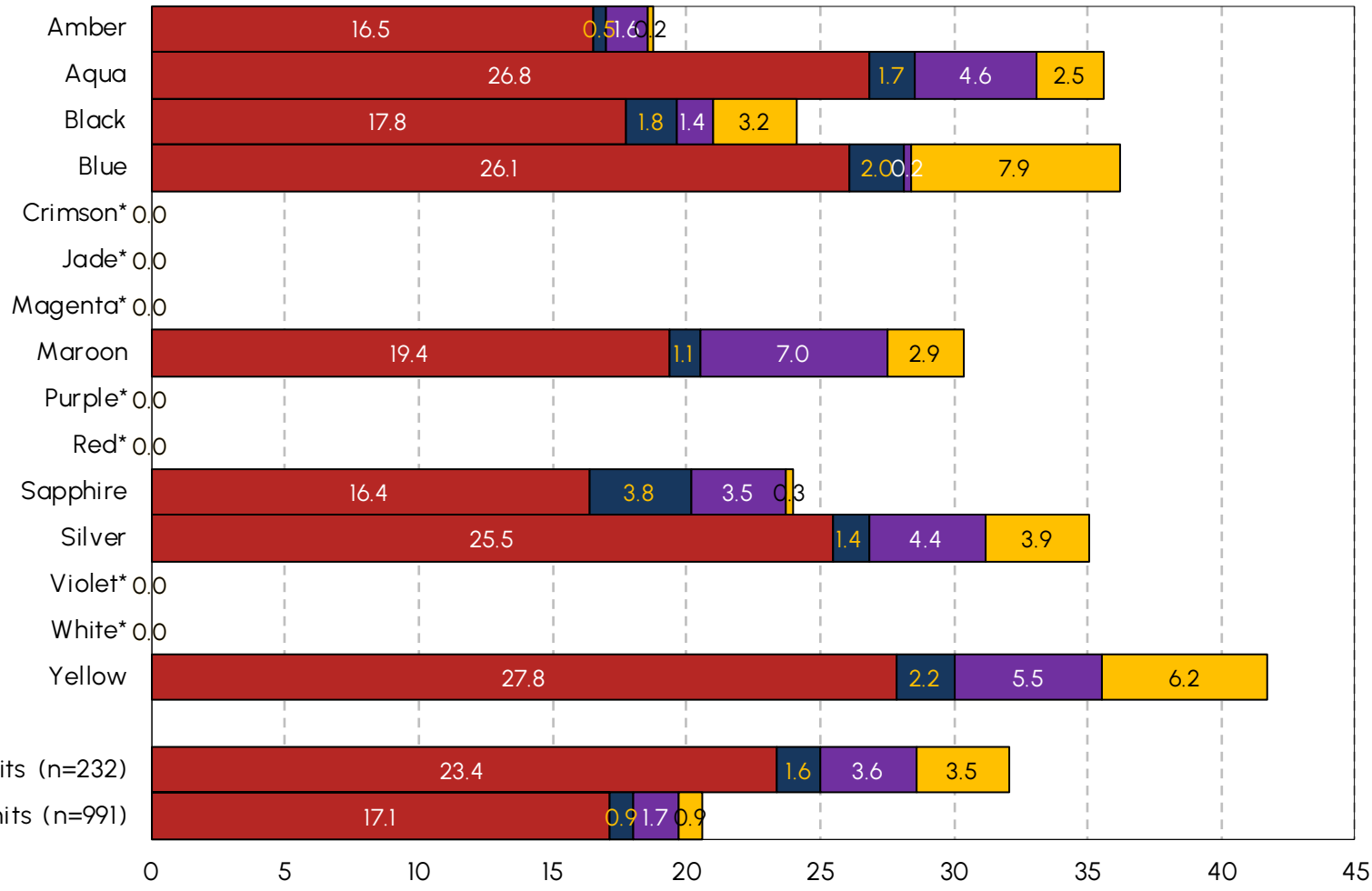
*No data provided when less than 5 episodes have dates

Average number of days

Note: First admission episodes.

Days from brain injury to episode start by specialist facility - NTBI

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

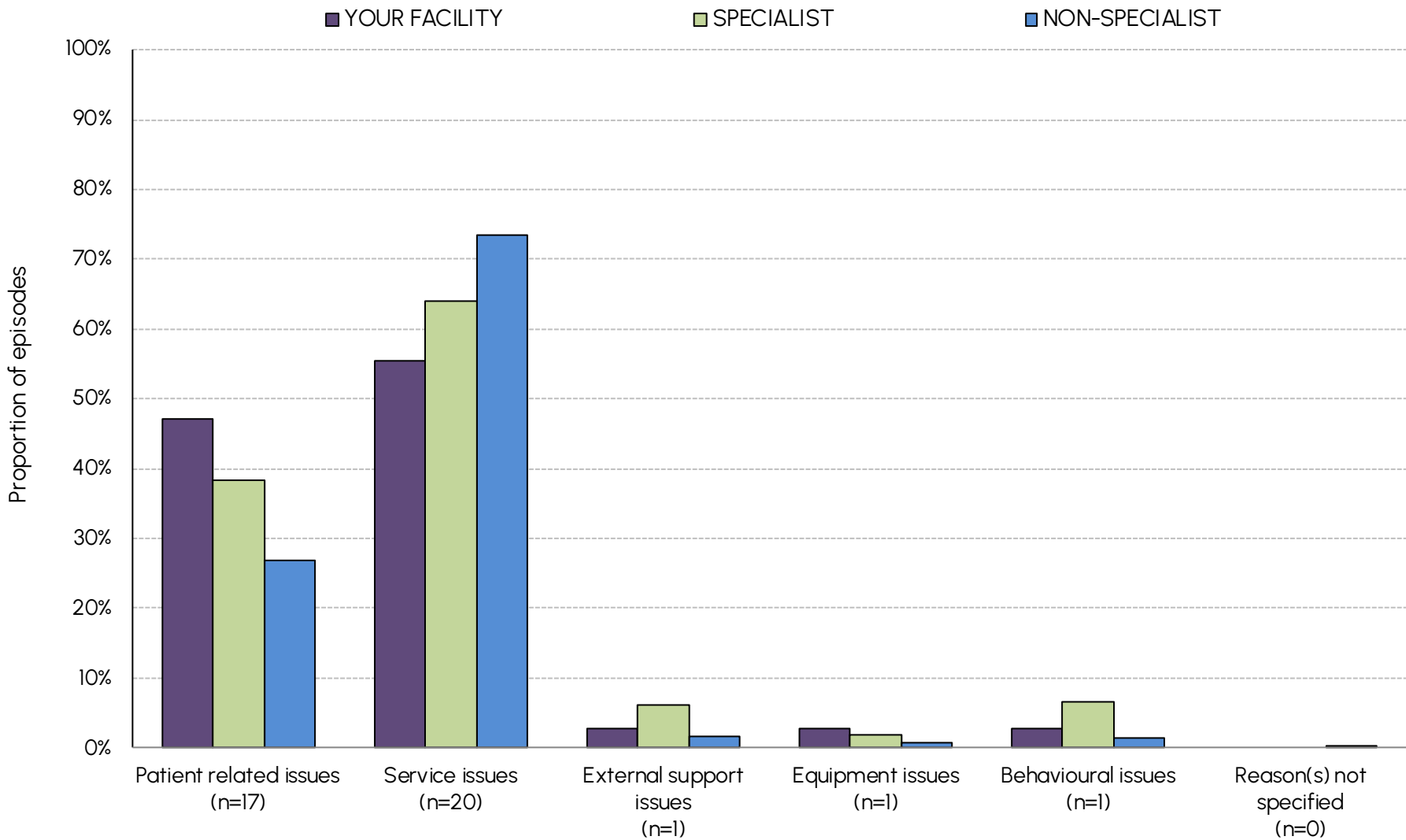


*No data provided when less than 5 episodes have dates

Average number of days

Note: First admission episodes.

Reason for delay in episode start

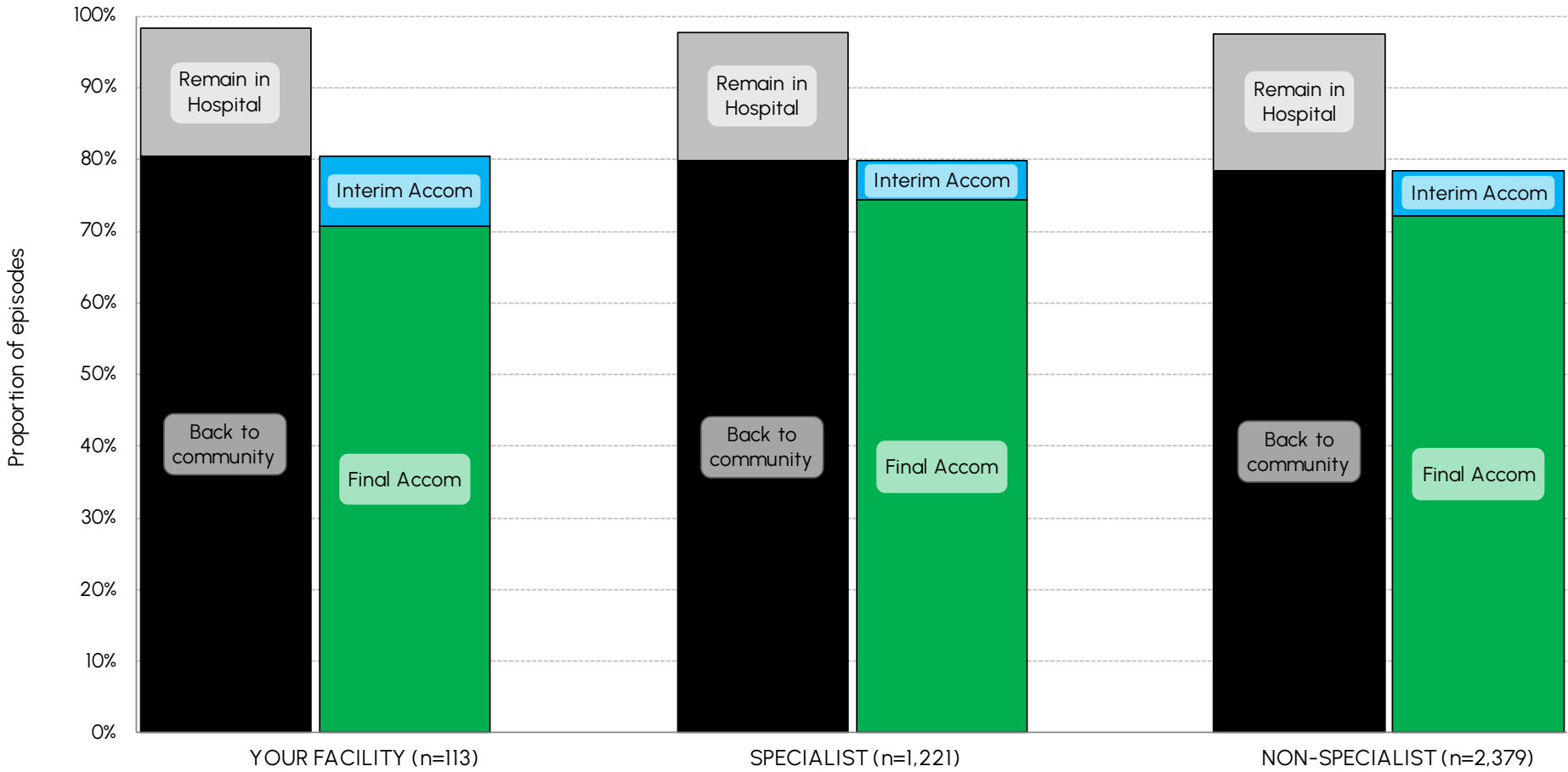


Delays in episode start

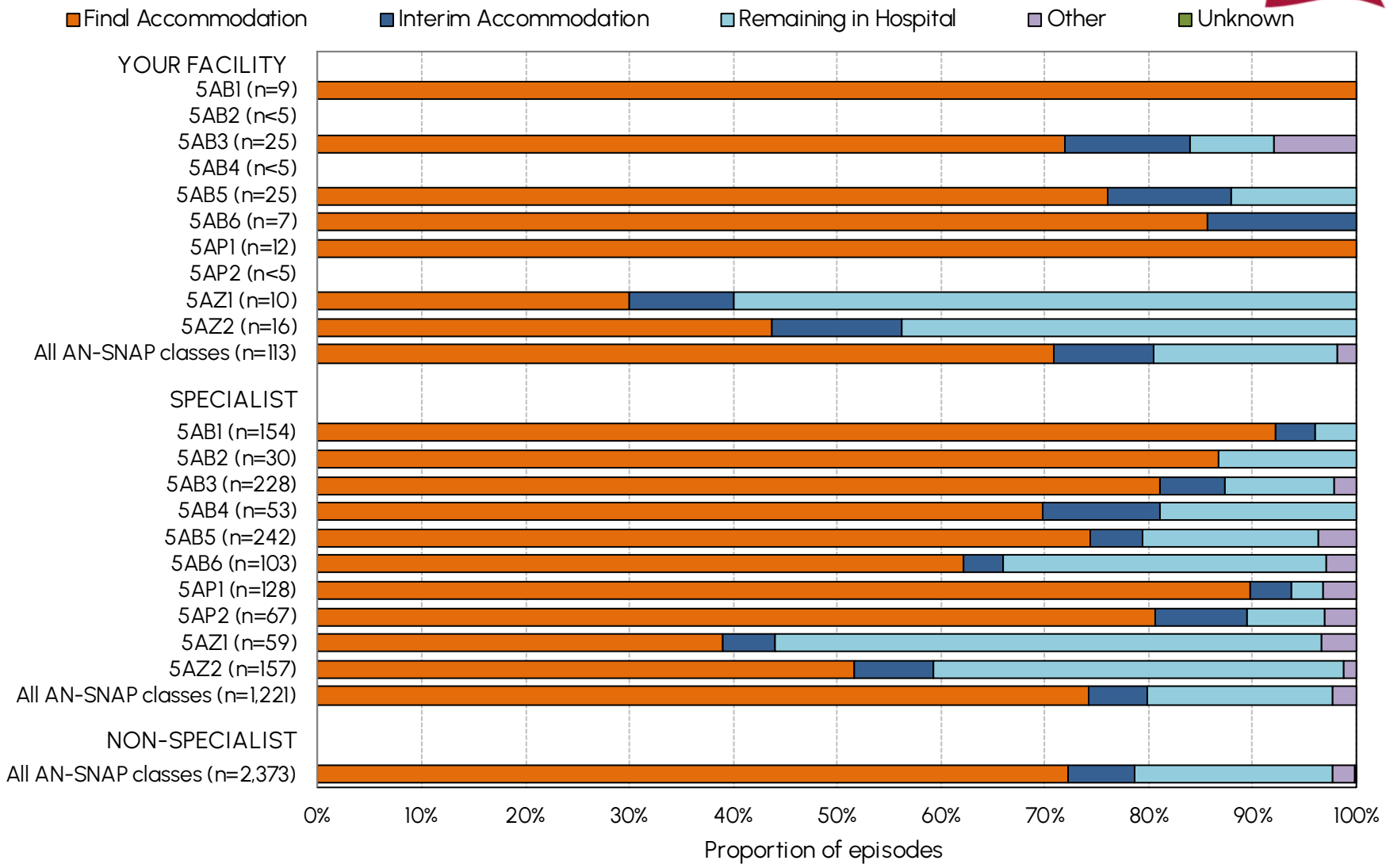
Delay in episode start	YOUR FACILITY		SPECIALIST		NON-SPECIALIST	
	No.	%	No.	%	No.	%
No delay	64	64.0	700	65.7	1,831	80.3
Delay in episode start	36	36.0	365	34.3	450	19.7
Missing	13		156		98	
All episodes	113	100.0	1,221	100.0	2,379	100.0

Delay in episode start	YOUR FACILITY		SPECIALIST		NON-SPECIALIST	
	No.	%	No.	%	No.	%
Patient related issues	17	47.2	140	38.4	121	26.9
Service issues	20	55.6	234	64.1	331	73.6
External support issues	1	2.8	22	6.0	7	1.6
Equipment issues	1	2.8	7	1.9	3	0.7
Behavioural issues	1	2.8	24	6.6	6	1.3
Reason(s) not specified	0	0.0	0	0.0	1	0.2

Discharge destination



Discharge destination by AN-SNAP class

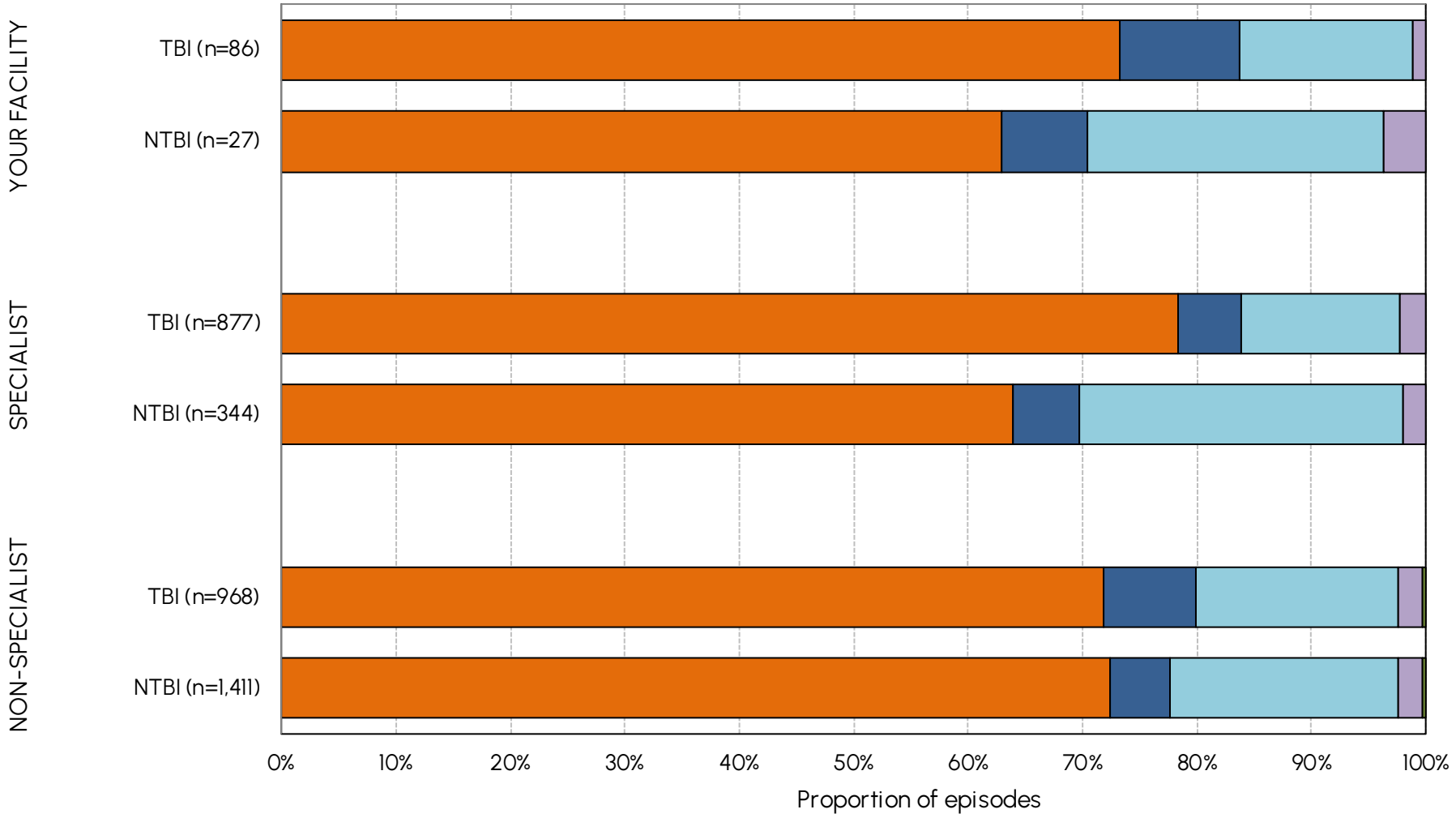


Discharge destination by AN-SNAP class

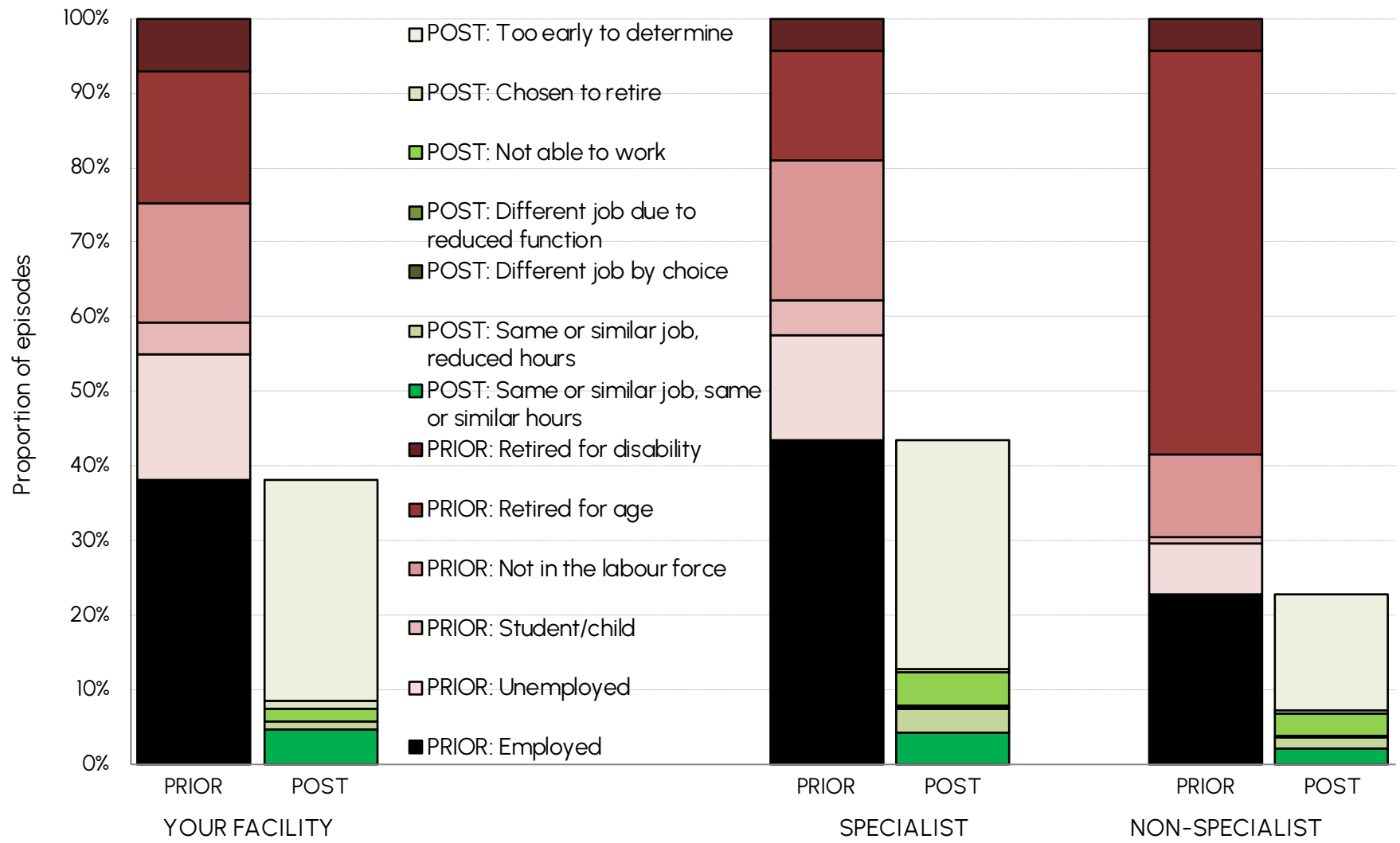
		Final Accom	Interim Accom	Remaining in Hospital	Other	Unknown	Final Accom	Interim Accom	Remaining in Hospital	Other	Unknown
AN-SNAP class		No.					%				
Your Facility	5AB1	9	0	0	0	0	100.0	0.0	0.0	0.0	0.0
	5AB2	1	0	0	0	0	100.0	0.0	0.0	0.0	0.0
	5AB3	18	3	2	2	0	72.0	12.0	8.0	8.0	0.0
	5AB4	2	0	2	0	0	50.0	0.0	50.0	0.0	0.0
	5AB5	19	3	3	0	0	76.0	12.0	12.0	0.0	0.0
	5AB6	6	1	0	0	0	85.7	14.3	0.0	0.0	0.0
	5AP1	12	0	0	0	0	100.0	0.0	0.0	0.0	0.0
	5AP2	3	1	0	0	0	75.0	25.0	0.0	0.0	0.0
	5AZ1	3	1	6	0	0	30.0	10.0	60.0	0.0	0.0
	5AZ2	7	2	7	0	0	43.8	12.5	43.8	0.0	0.0
All AN-SNAP classes		80	11	20	2	0	70.8	9.7	17.7	1.8	0.0
SPECIALIST units		907	68	219	27	0	74.3	5.6	17.9	2.2	0.0
NON-SPECIALIST units		1,713	152	454	50	4	72.2	6.4	19.1	2.1	0.2

Discharge destination by traumatic and non-traumatic brain injury

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



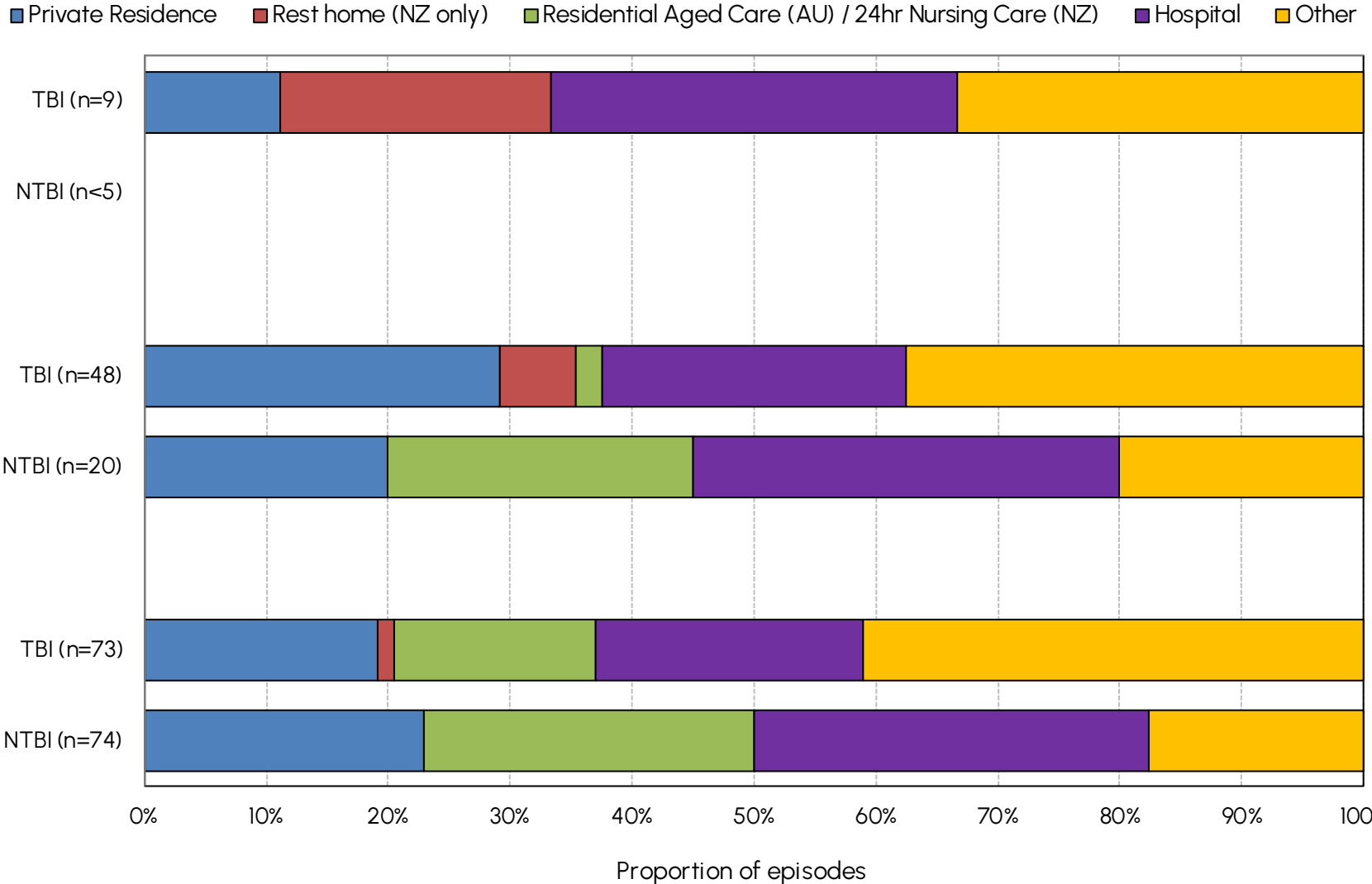
Employment status prior and post brain injury



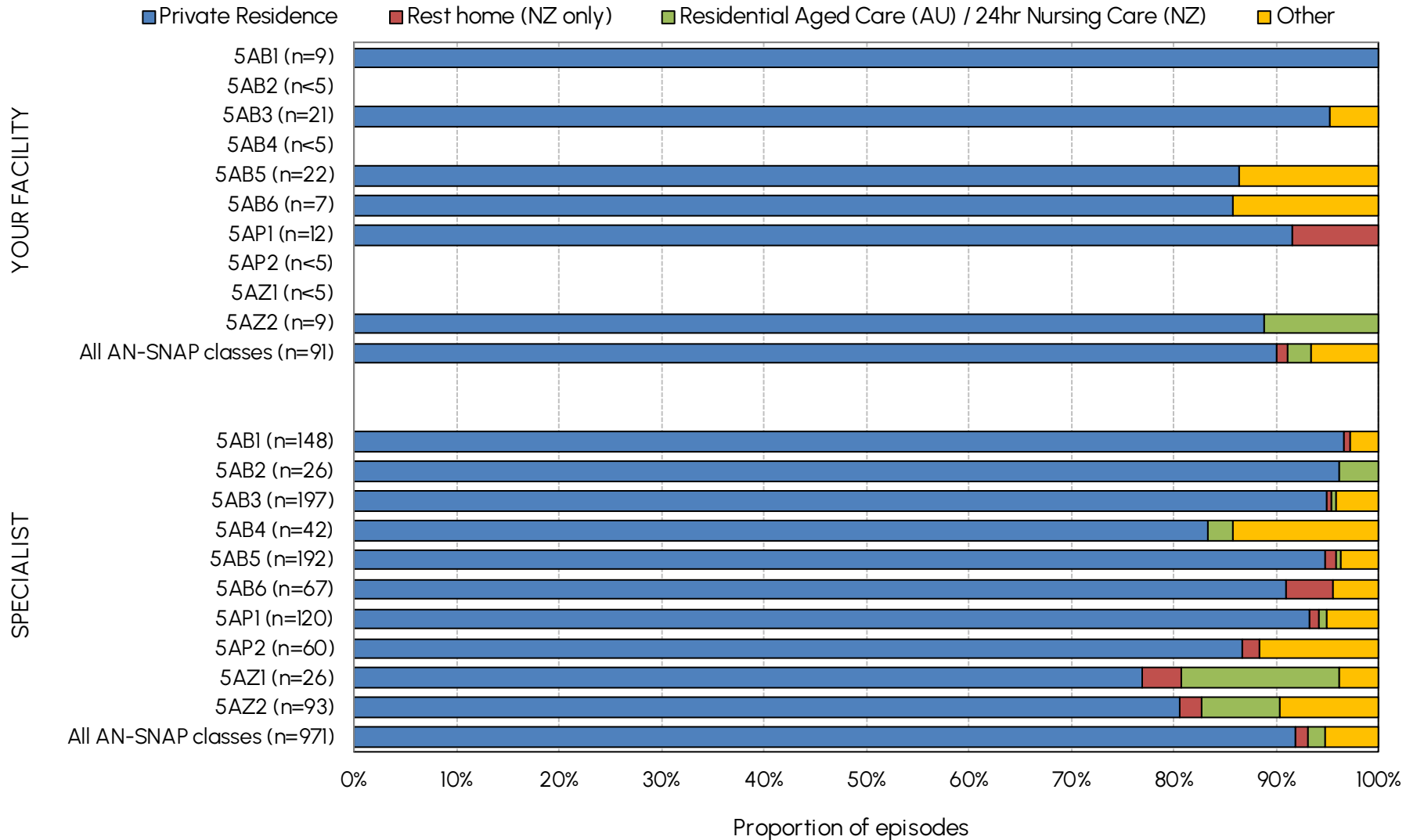
Employment status prior and post brain injury

Employment status	YOUR FACILITY		SPECIALIST		NON-SPECIALIST	
	No.	%	No.	%	No.	%
<u>Prior to brain injury:</u>						
Employed	43	38.1	529	43.4	529	22.8
Unemployed	19	16.8	173	14.2	158	6.8
Student/child	5	4.4	56	4.6	20	0.9
Not in the labour force	18	15.9	228	18.7	257	11.1
Retired for age	20	17.7	181	14.8	1256	54.1
Retired for disability	8	7.1	52	4.3	101	4.4
Not answered	0		2		58	
Total	113	100.0	1,221	100.0	2,379	100.0
<u>After discharge (if previously employed):</u>						
Same or similar job, same or similar hours	5	12.2	48	9.5	42	8.8
Same or similar job, reduced hours	1	2.4	38	7.5	34	7.1
Different job by choice	0	0.0	3	0.6	0	0.0
Different job due to reduced function	0	0.0	2	0.4	3	0.6
Not able to work	2	4.9	53	10.5	63	13.2
Chosen to retire	1	2.4	3	0.6	7	1.5
Too early to determine	32	78.0	358	70.9	328	68.8
Not answered	2		24		52	
Total employed prior	43	100.0	529	100.0	529	100.0

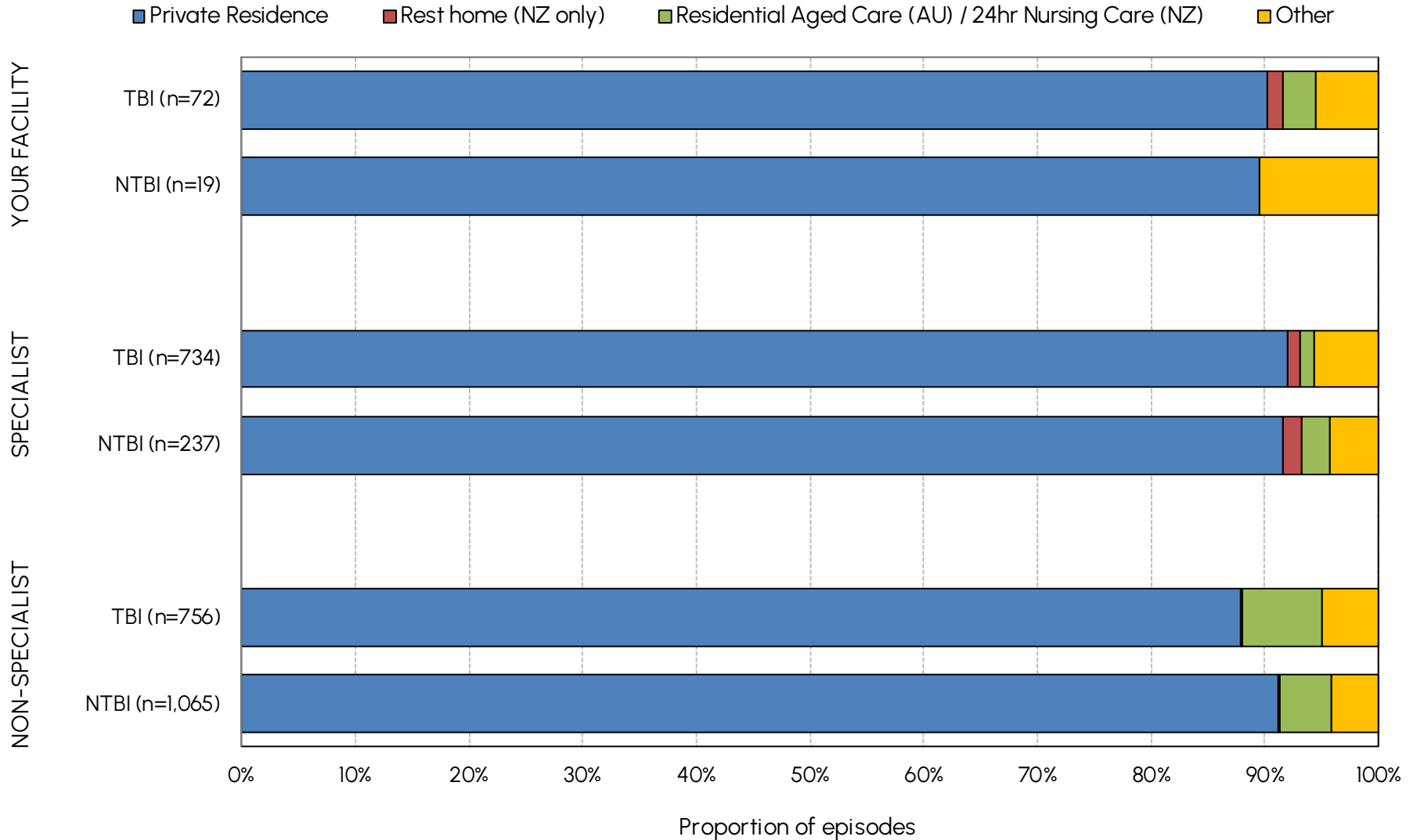
Interim accommodation post discharge by TBI and NTBI



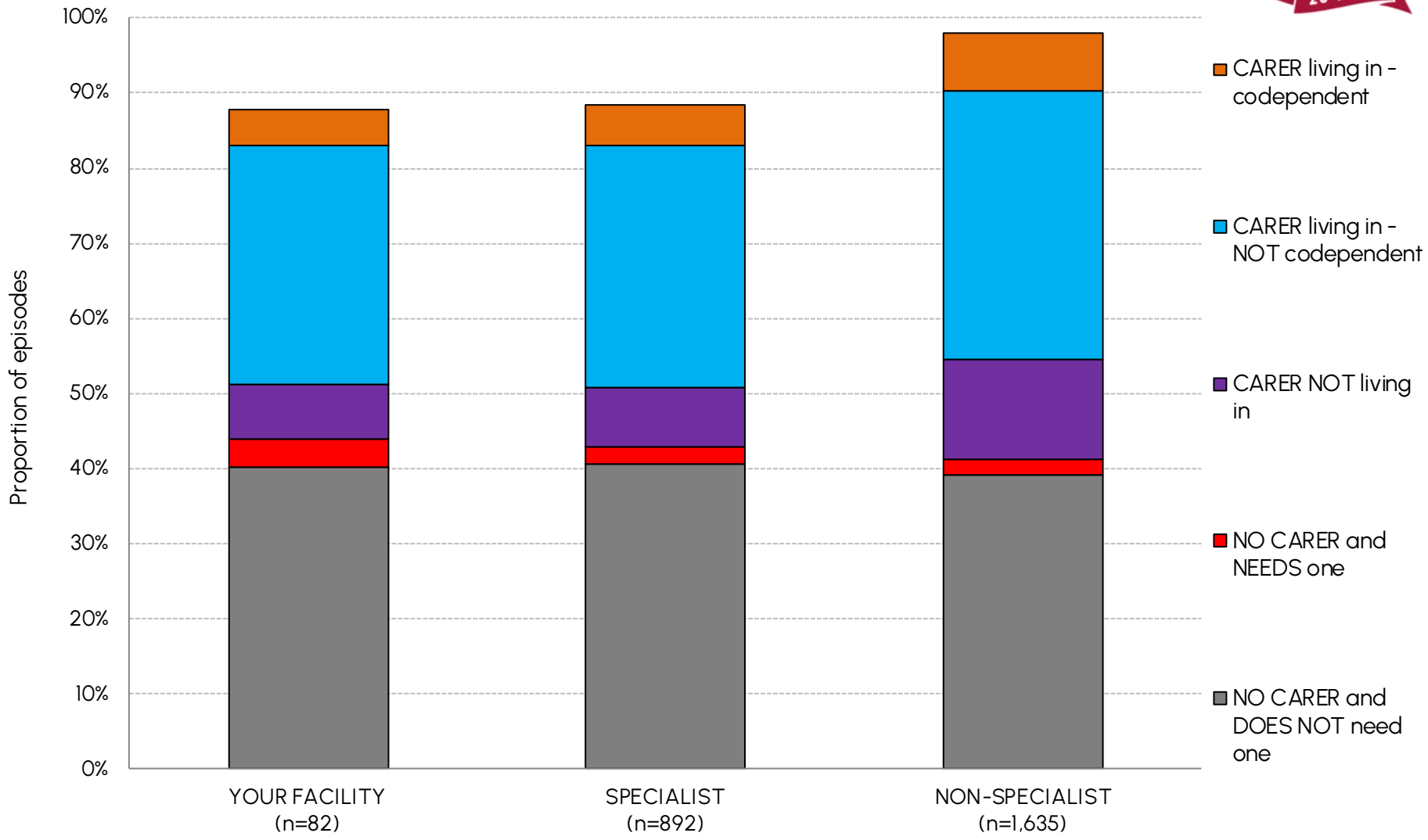
Final accommodation post discharge by AN-SNAP class



Final accommodation post discharge by TBI and NTBI

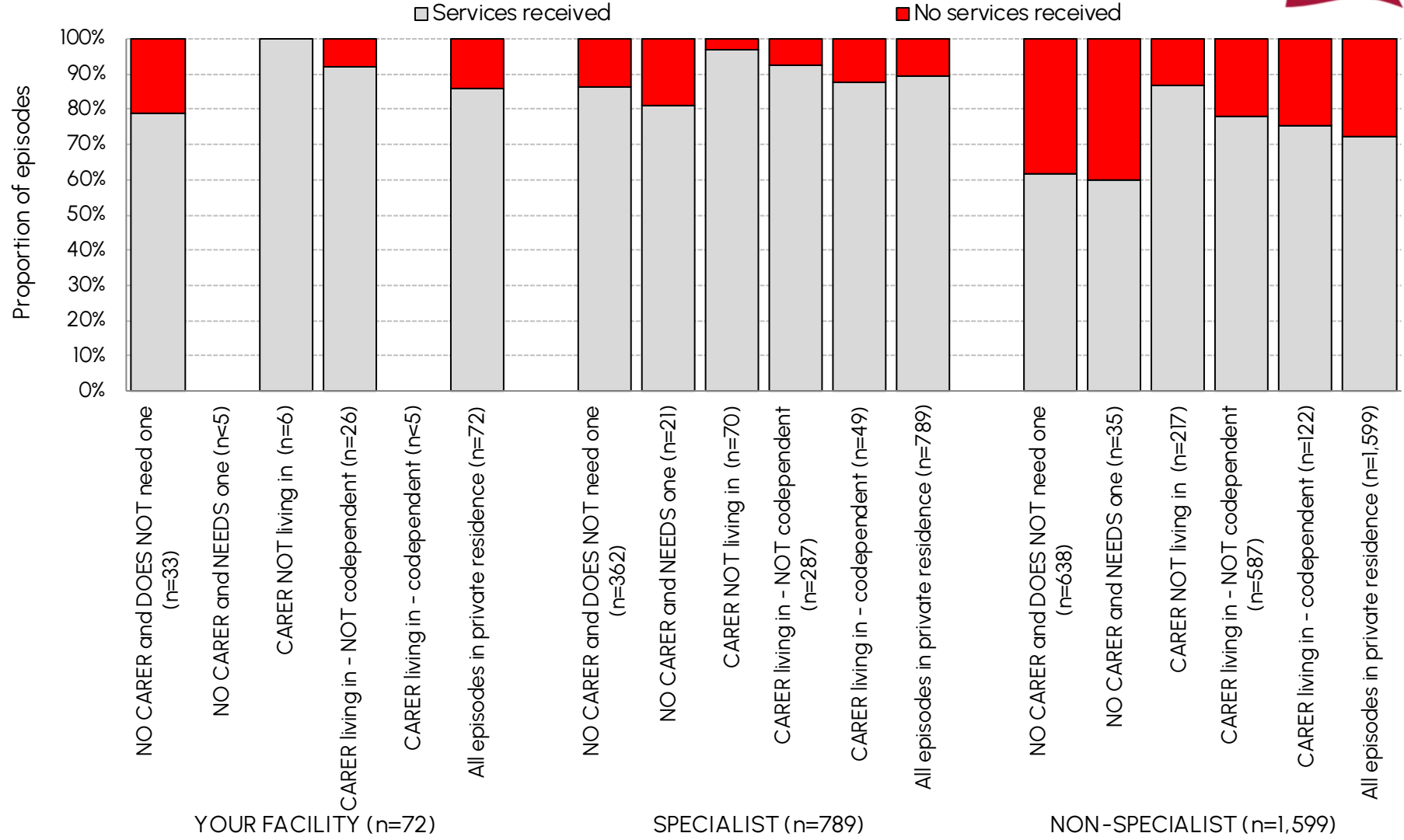


Carer status post discharge



Note: Final accommodation is private residence.

Any services received post discharge by carer status



Note: Final accommodation is private residence.

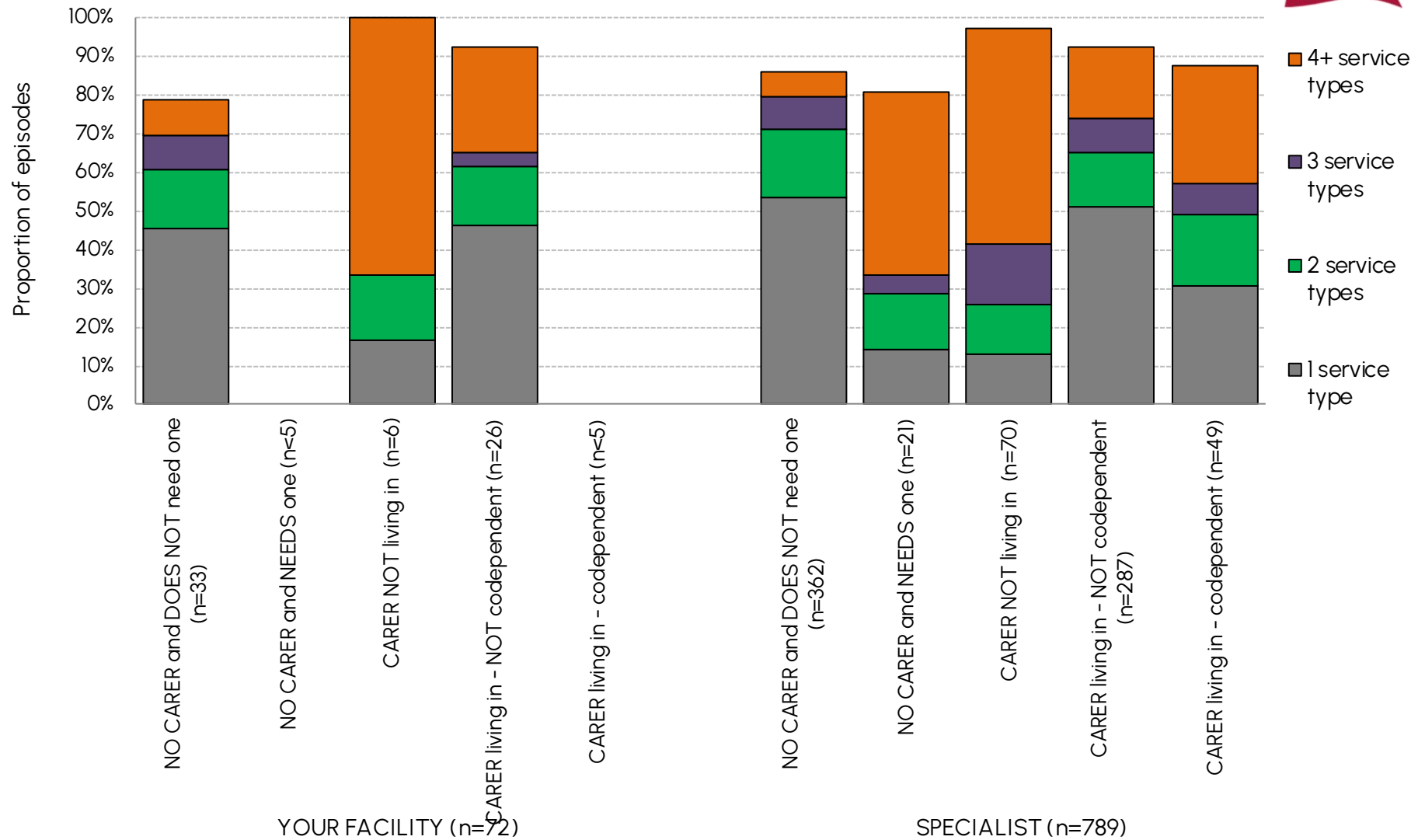
Carer status and any services received post discharge

Carer status post discharge	YOUR FACILITY		SPECIALIST		NON-SPECIALIST	
	No.	%	No.	%	No.	%
NO CARER and DOES NOT need one	33	45.8	362	45.9	639	39.9
NO CARER and NEEDS one	3	4.2	21	2.7	35	2.2
CARER NOT living in	6	8.3	70	8.9	217	13.6
CARER living in - NOT codependent	26	36.1	287	36.4	587	36.7
CARER living in - codependent	4	5.6	49	6.2	123	7.7
Missing	10		103		34	
All episodes in private residence	82	100.0	892	100.0	1,635	100.0

Any services received post discharge?						
Carer status post discharge	YOUR FACILITY		SPECIALIST		NON-SPECIALIST	
	Yes (%)	No (%)	Yes (%)	No (%)	Yes (%)	No (%)
NO CARER and DOES NOT need one	78.8	21.2	86.2	13.8	61.7	38.2
NO CARER and NEEDS one	100.0	0.0	81.0	19.0	60.0	40.0
CARER NOT living in	100.0	0.0	97.1	2.9	86.6	13.4
CARER living in - NOT codependent	92.3	7.7	92.3	7.7	78.2	21.8
CARER living in - codependent	75.0	25.0	87.8	12.2	74.8	24.4
All episodes in private residence	86.1	13.9	89.4	10.6	72.1	27.8

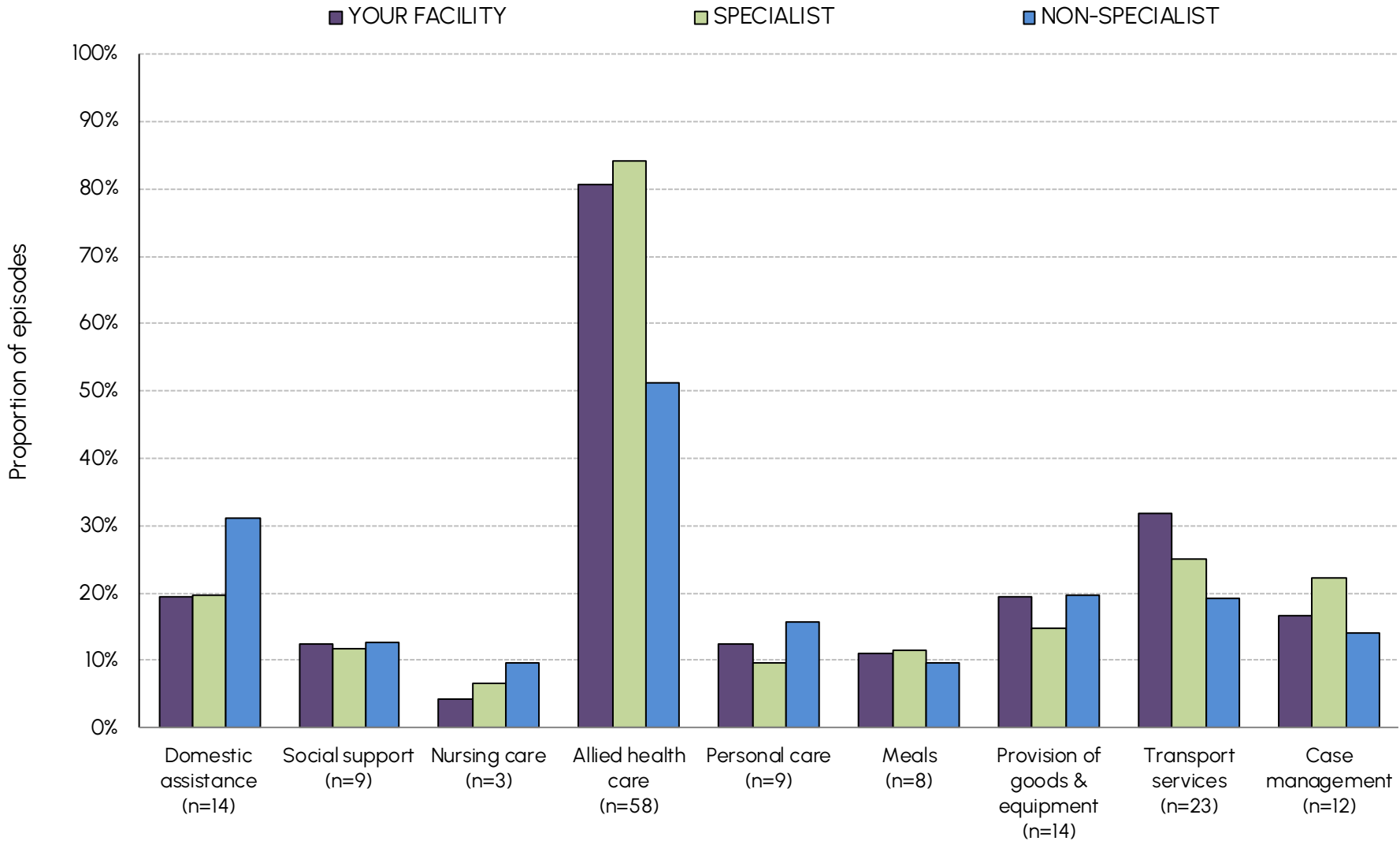
Note: Final accommodation is private residence.

Number of services received post discharge by carer status



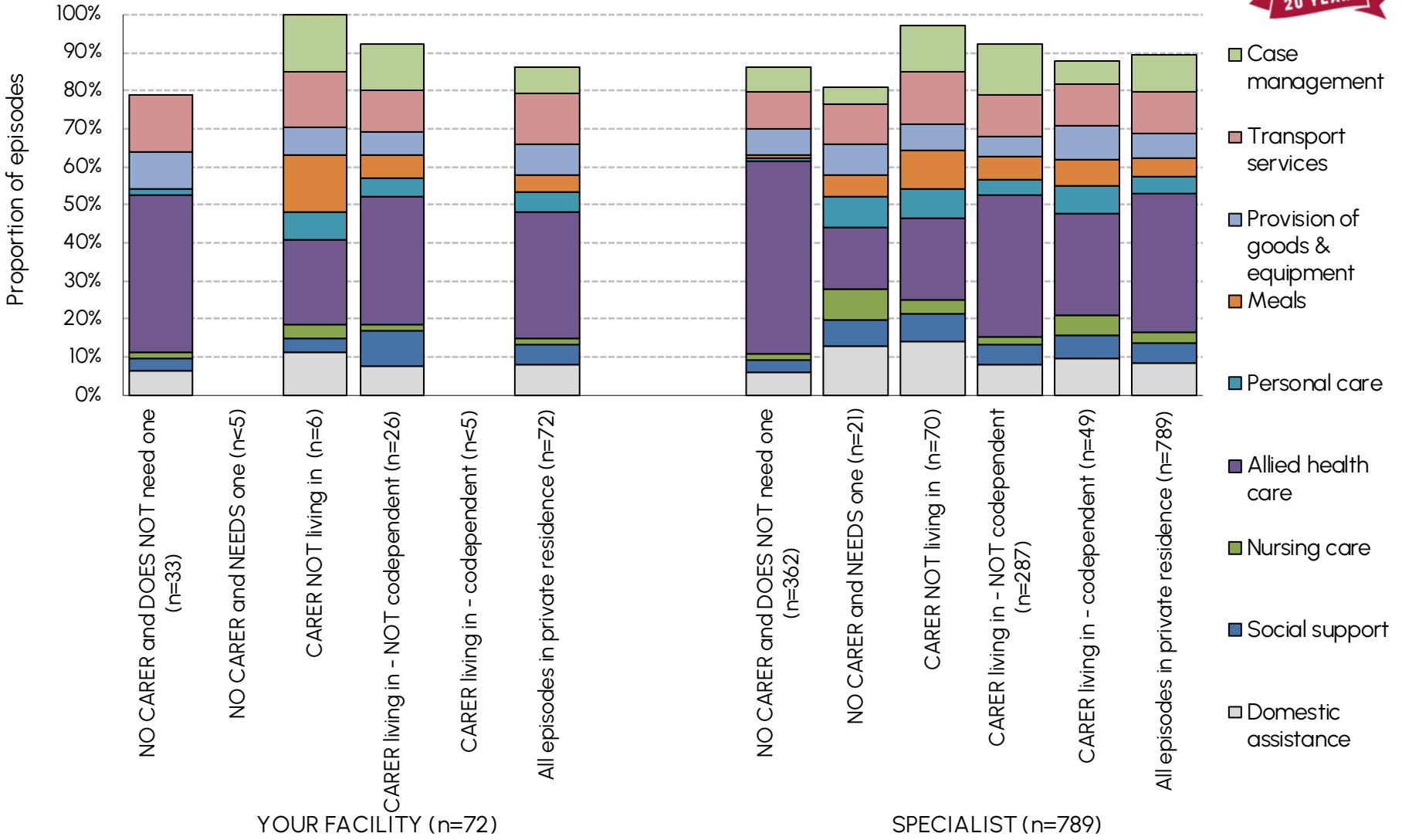
Note: Final accommodation is private residence.

Type of services received post discharge



Note: Final accommodation is private residence.

Type of services received post discharge by carer status



Note: Final accommodation is private residence.

Number and type of services received post discharge by carer status

Carer status post discharge - YOUR FACILITY

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	33	3	6	26	4	
Percent of episodes receiving:						
No services	21.2	0.0	0.0	7.7	25.0	13.9
1 service type	45.5	33.3	16.7	46.2	50.0	43.1
2 service types	15.2	0.0	16.7	15.4	0.0	13.9
3 service types	9.1	0.0	0.0	3.8	25.0	6.9
4 or more service types	9.1	66.7	66.7	26.9	0.0	22.2
Service Type received						
Domestic assistance	12.1	66.7	50.0	19.2	0.0	19.4
Social support	6.1	0.0	16.7	23.1	0.0	12.5
Nursing care	3.0	0.0	16.7	3.8	0.0	4.2
Allied health care	75.8	100.0	100.0	84.6	50.0	80.6
Personal care	3.0	66.7	33.3	11.5	25.0	12.5
Meals	0.0	0.0	66.7	15.4	0.0	11.1
Provision of goods & equipment	18.2	33.3	33.3	15.4	25.0	19.4
Transport services	27.3	66.7	66.7	26.9	25.0	31.9
Case management	0.0	0.0	66.7	30.8	0.0	16.7

Note: Final accommodation is private residence.

Number and type of services received post discharge by carer status

Carer status post discharge - SPECIALIST

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	362	21	70	287	49	
Percent of episodes receiving:						
No services	13.8	19.0	2.9	7.7	12.2	10.6
1 service type	53.6	14.3	12.9	51.2	30.6	46.6
2 service types	17.4	14.3	12.9	13.9	18.4	15.7
3 service types	8.6	4.8	15.7	8.7	8.2	9.1
4 or more service types	6.4	47.6	55.7	18.5	30.6	17.7
Service Type received						
Domestic assistance	9.7	52.4	60.0	18.1	28.6	19.6
Social support	5.5	28.6	31.4	11.8	18.4	11.7
Nursing care	3.0	33.3	15.7	4.9	16.3	6.6
Allied health care	83.7	66.7	90.0	84.7	79.6	84.2
Personal care	1.7	33.3	32.9	9.8	22.4	9.6
Meals	1.4	23.8	42.9	13.9	20.4	11.5
Provision of goods & equipment	11.0	33.3	30.0	12.2	26.5	14.8
Transport services	16.3	42.9	58.6	24.7	32.7	25.0
Case management	10.8	19.0	51.4	30.3	18.4	22.2

Note: Final accommodation is private residence.

Number and type of services received post discharge by carer status

Carer status post discharge - NON-SPECIALIST

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	639	35	217	587	123	
Percent of episodes receiving:						
No services	38.2	40.0	13.4	21.8	24.4	27.8
1 service type	30.8	28.6	18.4	26.7	25.2	27.2
2 service types	16.9	11.4	16.6	18.6	16.3	17.3
3 service types	5.8	2.9	14.7	13.6	10.6	10.2
4 or more service types	8.1	17.1	36.9	19.3	22.0	17.4
Service Type received						
Domestic assistance	21.8	22.9	57.1	30.7	37.4	31.1
Social support	5.5	5.7	26.3	15.2	16.3	12.7
Nursing care	5.6	11.4	18.9	9.7	13.0	9.6
Allied health care	44.4	42.9	53.0	58.9	47.2	51.2
Personal care	4.7	8.6	34.6	19.3	23.6	15.7
Meals	3.3	5.7	22.1	11.2	13.0	9.6
Provision of goods & equipment	14.7	8.6	28.1	21.3	26.0	19.7
Transport services	12.4	14.3	30.9	22.8	17.1	19.1
Case management	6.9	22.9	26.7	16.5	16.3	14.2

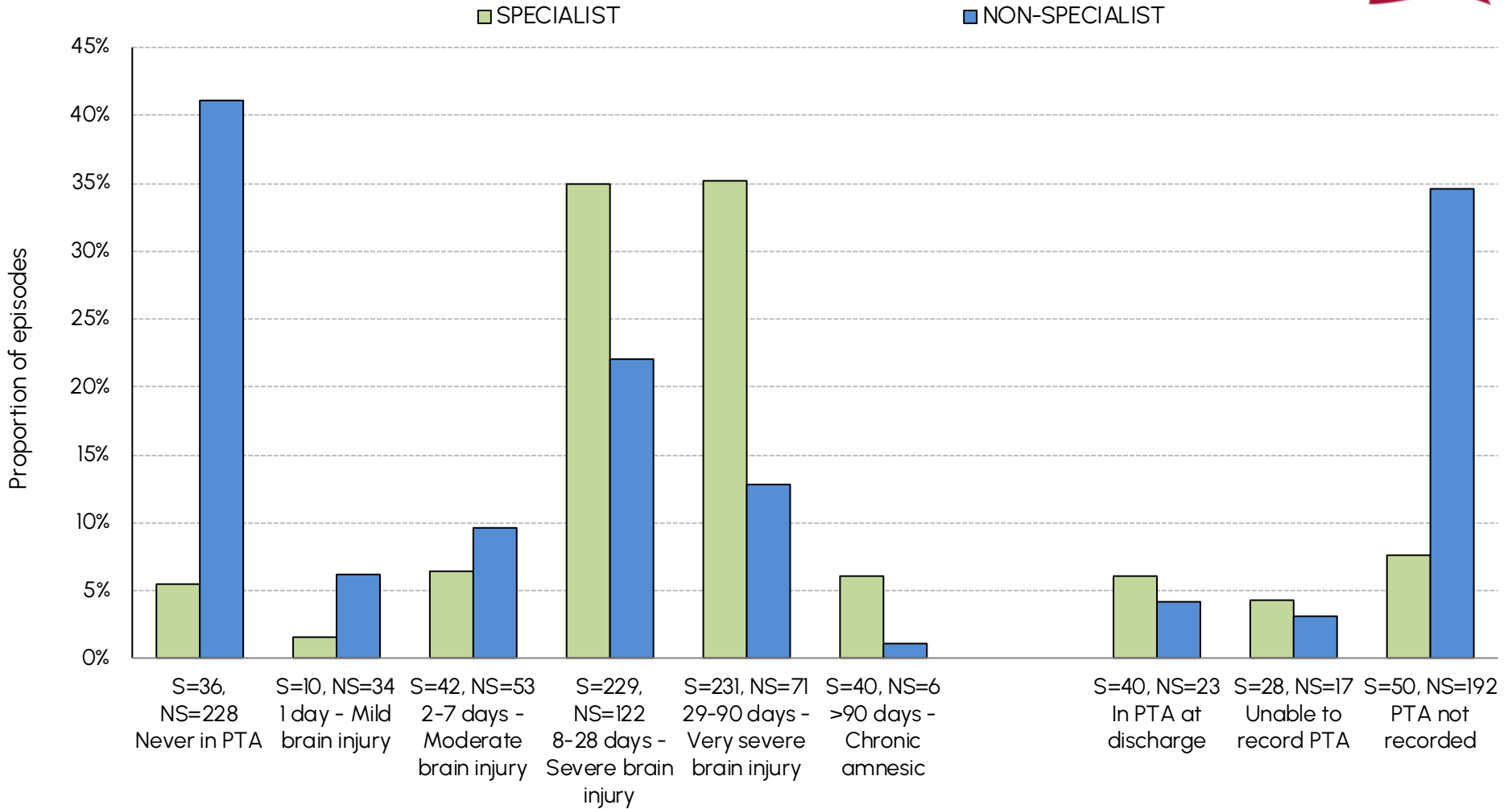
Note: Final accommodation is private residence.



Brain injury specific data



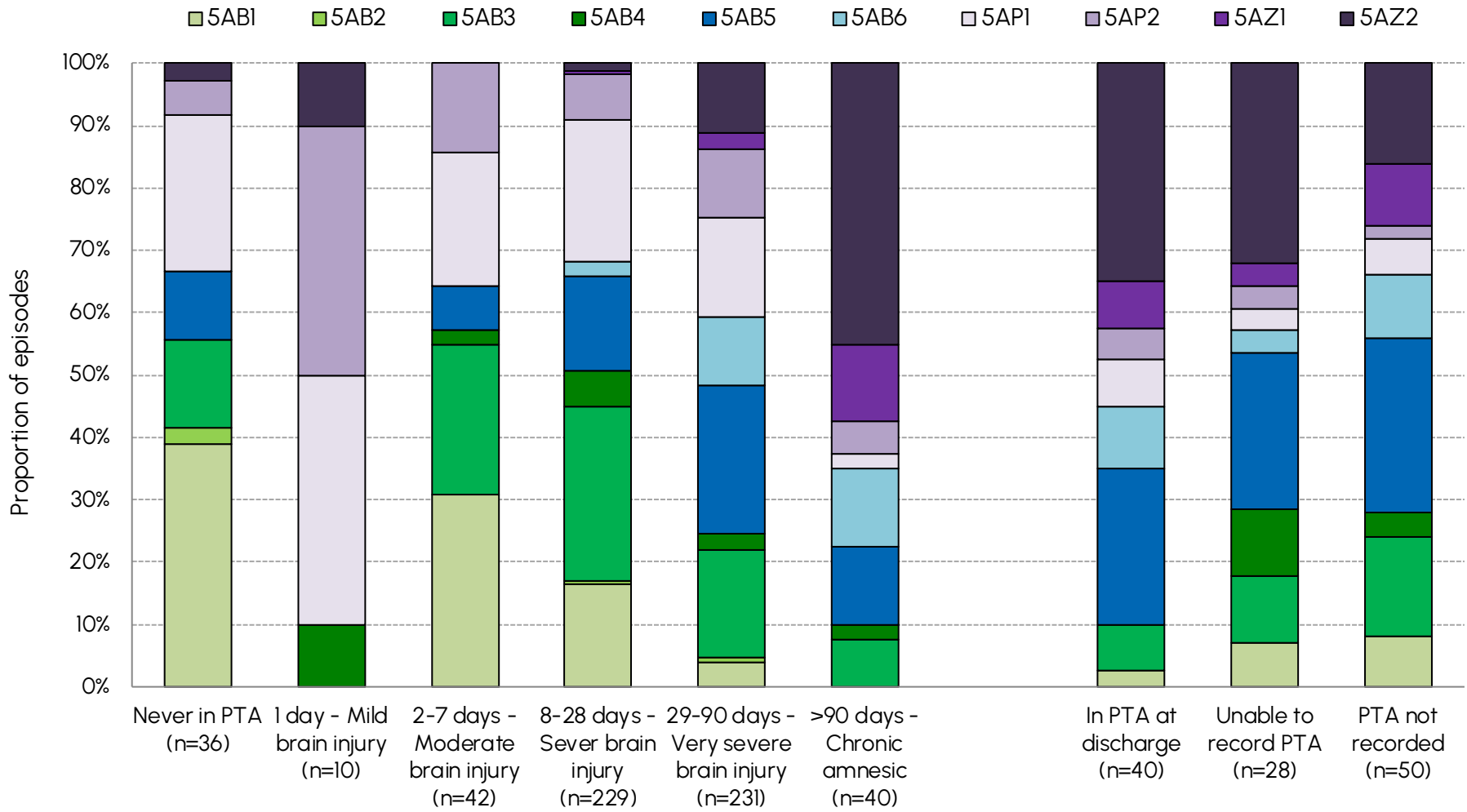
Proportion of episodes by duration of PTA



Note: 107 episodes at SPECIALIST facilities and 142 episodes at NON-SPECIALIST facilities did not collect PTA.

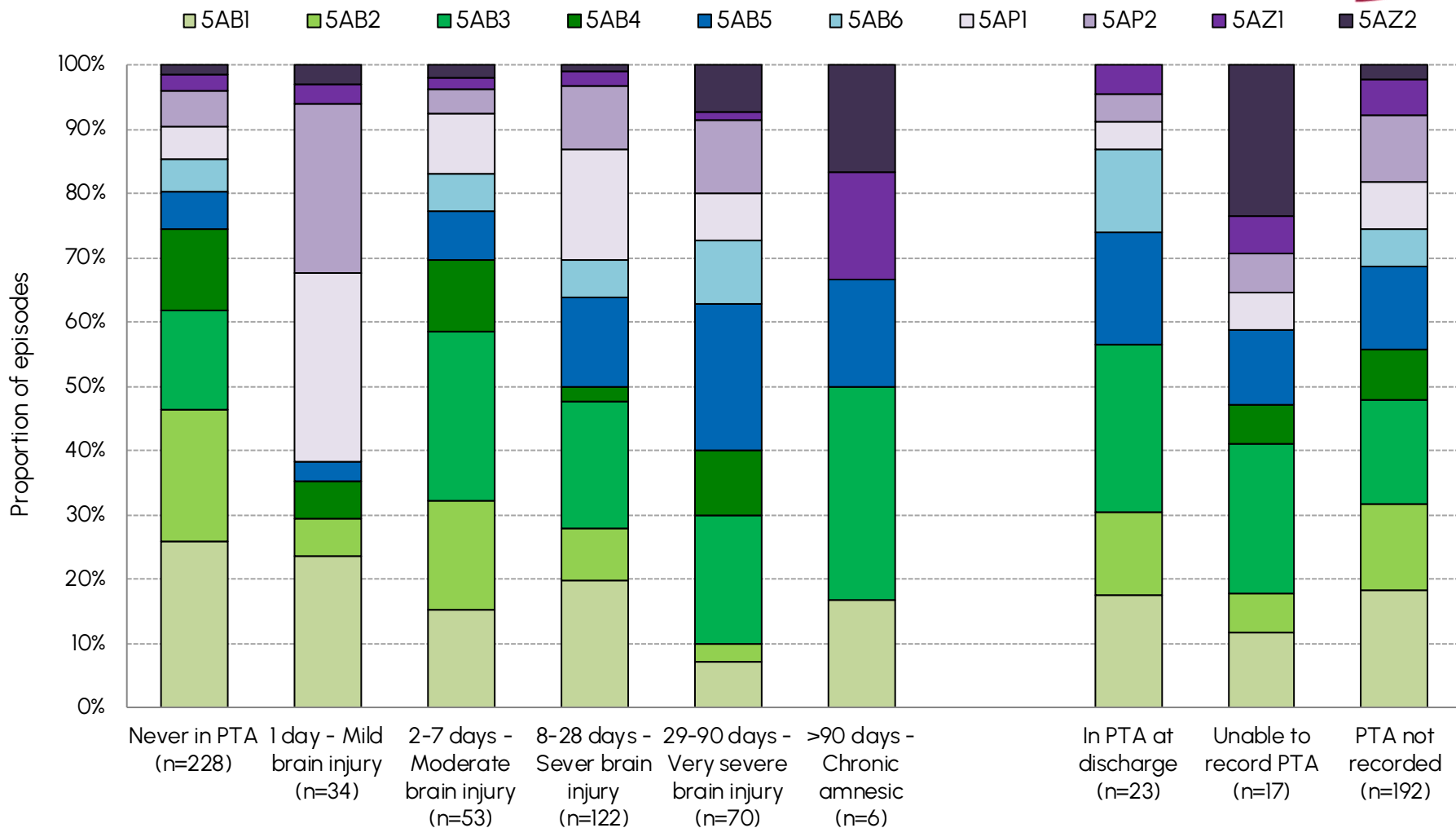
Note: First admission episodes.

Proportion of specialist facility episodes by AN-SNAP class and duration of PTA



Note: 206 episodes at SPECIALIST facilities did not collect PTA.
 Note: First admission episodes.

Proportion of non-specialist facility episodes by AN-SNAP class and duration of PTA



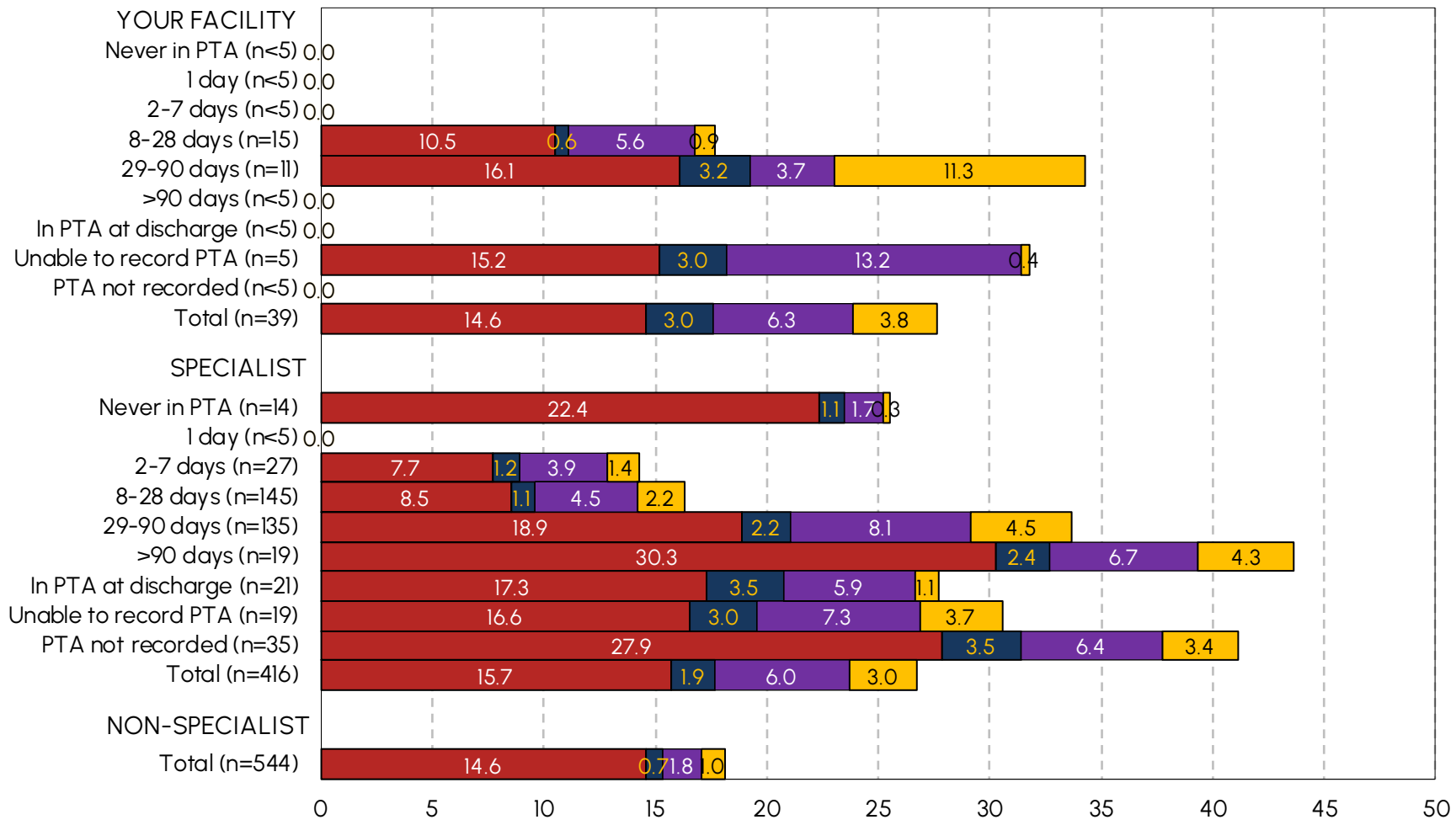
Note: 229 episodes at NON-SPECIALIST facilities did not collect PTA.

Note: First admission episodes.

Days from injury to episode start by duration of PTA



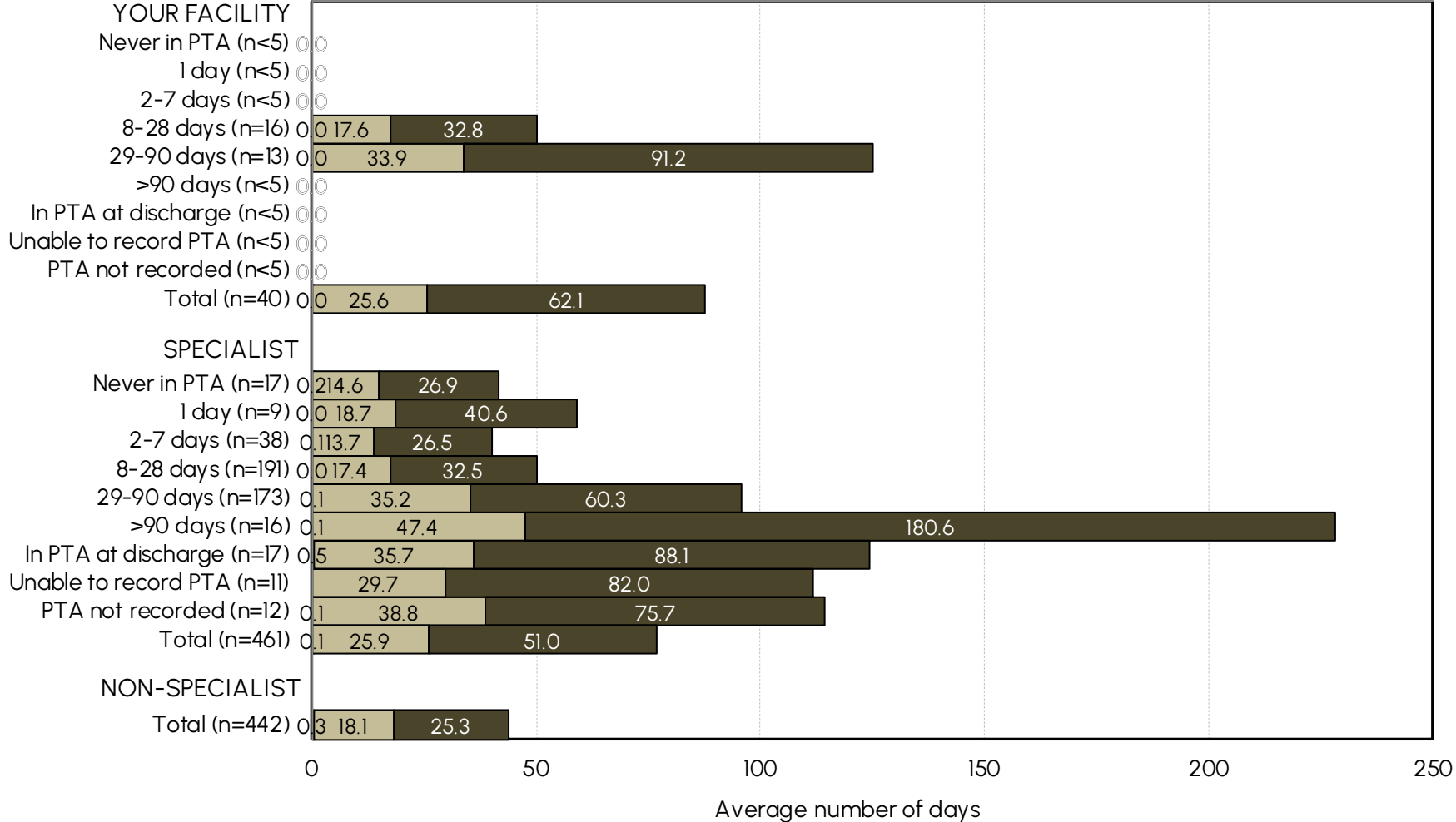
■ Injury to referral
 ■ Referral to assessment
 ■ Assessment to clinically rehab ready
 ■ Clinically rehab ready to episode start



*No data provided when less than 5 episodes have dates
 Note: First admission episodes.

Days from injury to episode start with an acute admission by duration of PTA

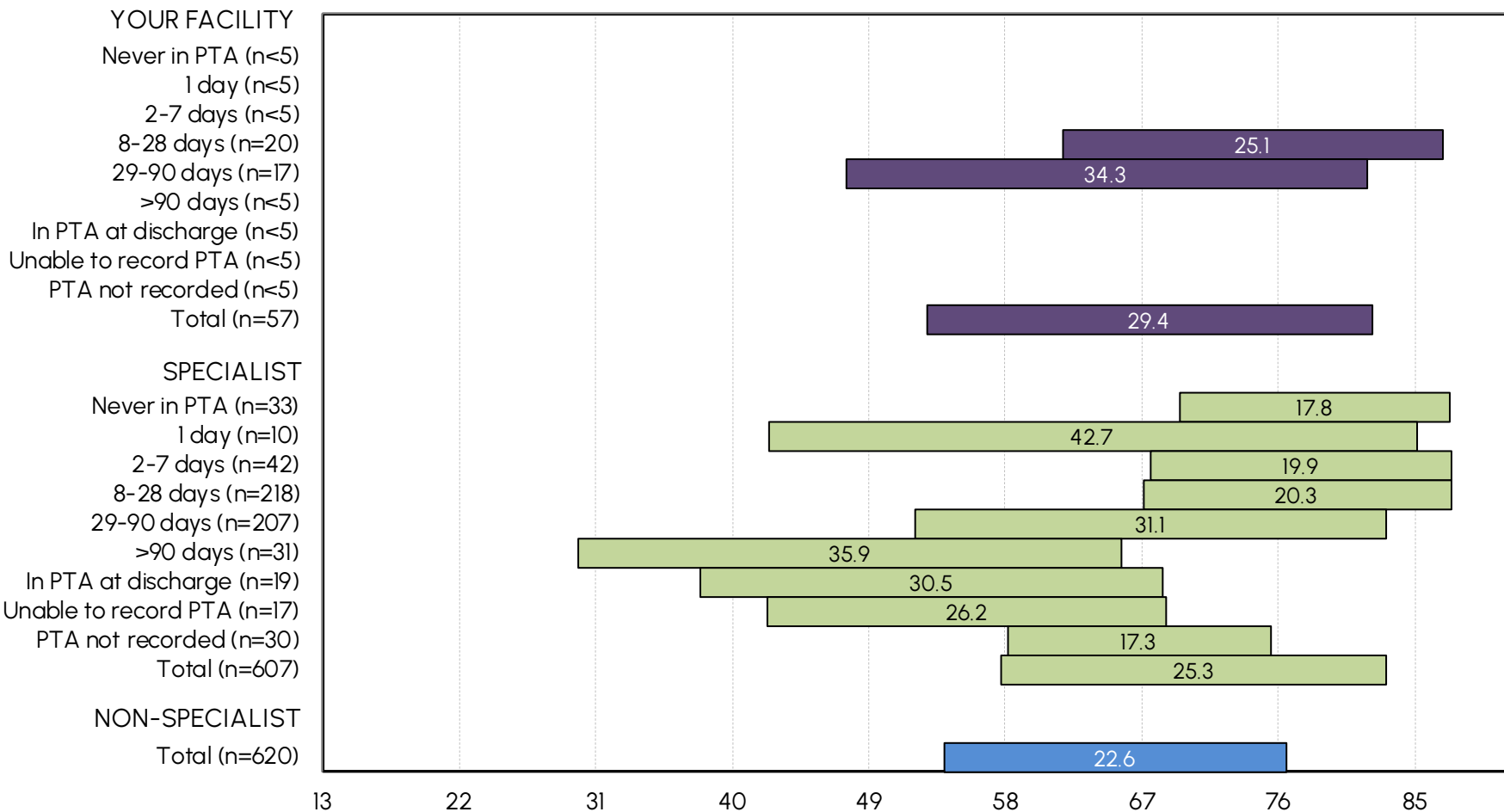
■ Injury to acute admission
 ■ Acute admission to episode start
 ■ Episode start to episode end



Note: 9 episodes at YOUR FACILITY, 66 episodes at SPECIALIST facilities and 75 episodes at NON-SPECIALIST facilities did not collect PTA.

Note: First admission episodes.

Admission and discharge FIM motor scores by duration of PTA

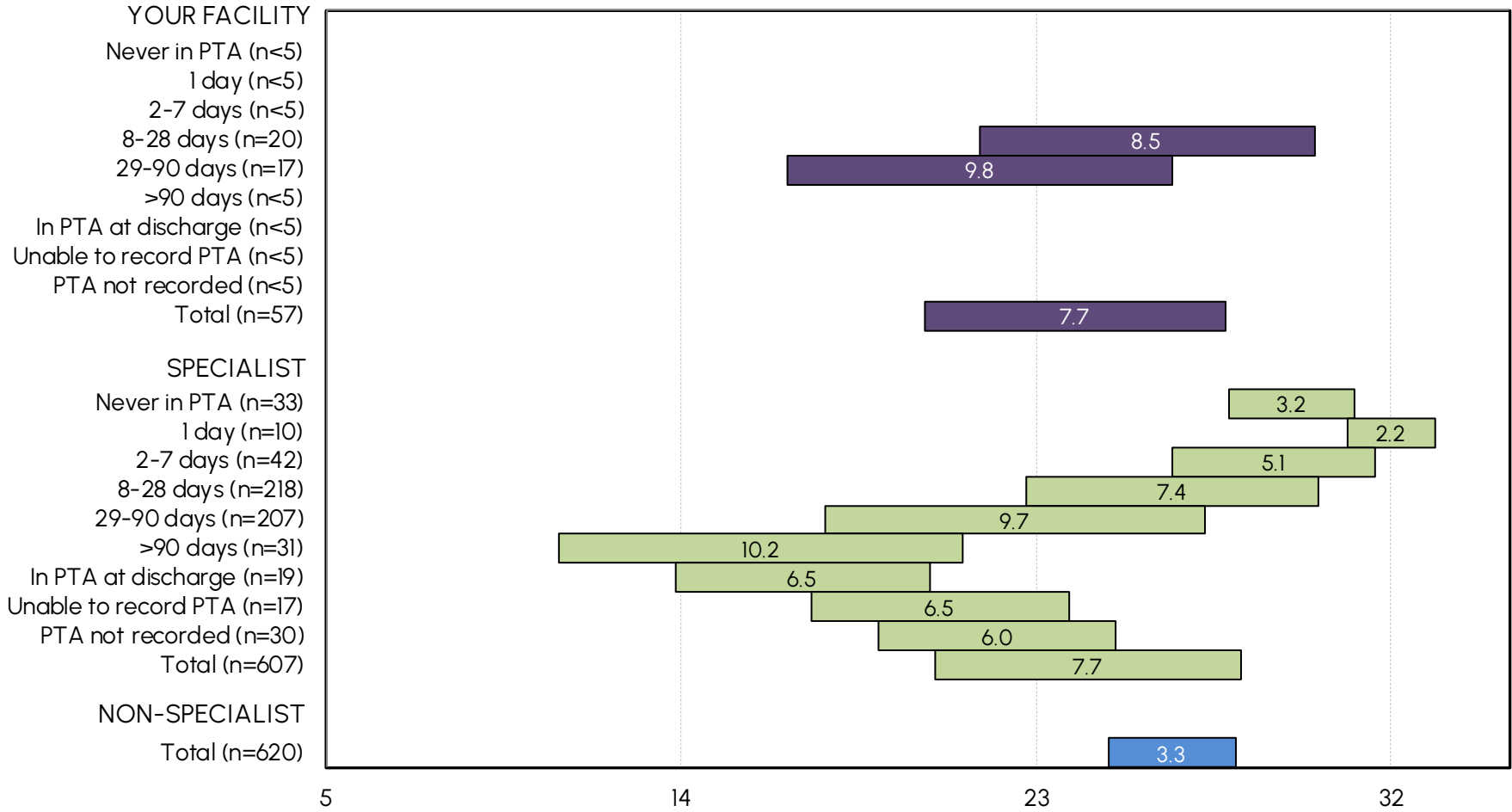


Mean FIM motor admission and discharge score (range 13 - 91)

Note: 10 episodes at YOUR FACILITY, 74 episodes at SPECIALIST facilities and 114 episodes at NON-SPECIALIST facilities did not collect PTA.

Note: First admission episodes.

Admission and discharge FIM cognition scores by duration of PTA



Mean FIM cognition admission and discharge score (range 5 - 35)

Note: 10 episodes at YOUR FACILITY, 74 episodes at SPECIALIST facilities and 114 episodes at NON-SPECIALIST facilities did not collect PTA.

Note: First admission episodes.

Average length of stay by AN-SNAP class and duration of PTA

YOUR FACILITY									
AN-SNAP class	Never in PTA	1 day	2-7 days	8-28 days	29-90 days	>90 days	PTA at dis.	Unable PTA	No PTA record
5AB1 (Bl. weighted FIM motor 59-91, FIM cog 27-35)	—	—	—	—	—	—	—	—	—
5AB2 (Bl. weighted FIM motor 19-58, FIM cog 27-35)	—	—	—	—	—	—	—	—	—
5AB3 (Bl. weighted FIM motor 50-91, FIM cog 19-26)	—	—	—	25.0	—	—	—	—	—
5AB4 (Bl. weighted FIM motor 19-49, FIM cog 19-26)	—	—	—	—	—	—	—	—	—
5AB5 (Bl. weighted FIM motor 39-91, FIM cog 5-18)	—	—	—	29.6	51.5	—	—	—	—
5AB6 (Bl. weighted FIM motor 19-38, FIM cog 5-18)	—	—	—	—	—	—	—	—	—
5AP1 (MMT, weighted FIM motor 51-91)	—	—	—	—	—	—	—	—	—
5AP2 (MMT, weighted FIM motor 19-50)	—	—	—	—	—	—	—	—	—
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	—	—	—	—	—	—	—	—	—
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	—	—	—	—	—	—	—	—	—
All Brain AN-SNAP classes	—	—	—	28.8	76.6	—	—	—	—

SPECIALIST									
AN-SNAP class	Never in PTA	1 day	2-7 days	8-28 days	29-90 days	>90 days	PTA at dis.	Unable PTA	No PTA record
5AB1 (Bl. weighted FIM motor 59-91, FIM cog 27-35)	14.9	—	16.5	17.2	28.1	—	—	—	—
5AB2 (Bl. weighted FIM motor 19-58, FIM cog 27-35)	—	—	—	—	—	—	—	—	—
5AB3 (Bl. weighted FIM motor 50-91, FIM cog 19-26)	44.4	—	19.0	29.5	39.9	—	—	—	30.7
5AB4 (Bl. weighted FIM motor 19-49, FIM cog 19-26)	—	—	—	48.6	55.2	—	—	—	—
5AB5 (Bl. weighted FIM motor 39-91, FIM cog 5-18)	—	—	—	29.5	47.3	60.6	—	—	41.0
5AB6 (Bl. weighted FIM motor 19-38, FIM cog 5-18)	—	—	—	52.4	81.8	—	—	—	—
5AP1 (MMT, weighted FIM motor 51-91)	17.1	—	32.1	23.7	42.5	—	—	—	—
5AP2 (MMT, weighted FIM motor 19-50)	—	—	41.8	49.6	68.5	—	—	—	—
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	—	—	—	—	145.8	—	—	—	—
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	—	—	—	—	98.3	271.7	—	131.4	—
All Brain AN-SNAP classes	25.0	36.7	24.6	29.8	58.1	163.8	98.3	98.4	54.5

NON-SPECIALIST									
AN-SNAP class	Never in PTA	1 day	2-7 days	8-28 days	29-90 days	>90 days	PTA at dis.	Unable PTA	No PTA record
5AB1 (Bl. weighted FIM motor 59-91, FIM cog 27-35)	12.5	9.9	11.0	12.4	—	—	—	—	12.1
5AB2 (Bl. weighted FIM motor 19-58, FIM cog 27-35)	22.9	—	27.9	13.5	—	—	—	—	20.2
5AB3 (Bl. weighted FIM motor 50-91, FIM cog 19-26)	20.8	—	20.0	17.1	33.5	—	—	—	19.1
5AB4 (Bl. weighted FIM motor 19-49, FIM cog 19-26)	27.7	—	—	—	—	—	—	—	26.9
5AB5 (Bl. weighted FIM motor 39-91, FIM cog 5-18)	24.3	—	—	25.8	43.2	—	—	—	33.4
5AB6 (Bl. weighted FIM motor 19-38, FIM cog 5-18)	30.5	—	—	38.4	46.8	—	—	—	49.4
5AP1 (MMT, weighted FIM motor 51-91)	21.4	17.0	12.4	16.8	—	—	—	—	17.8
5AP2 (MMT, weighted FIM motor 19-50)	37.3	35.0	—	76.1	45.8	—	—	—	64.6
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	—	—	—	—	—	—	—	—	28.8
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	—	—	—	—	81.0	—	—	—	—
All Brain AN-SNAP classes	21.5	26.6	22.4	24.1	43.6	—	21.5	27.0	27.4

Note: First admission episodes.



Average FIM admission by AN-SNAP class and duration of PTA

YOUR FACILITY									
AN-SNAP class	Never in PTA	1 day	2-7 days	8-28 days	29-90 days	>90 days	PTA at dis.	Unable PTA	No PTA record
5AB1 (Bl. weighted FIM motor 59-91, FIM cog 27-35)	—	—	—	—	—	—	—	—	—
5AB2 (Bl. weighted FIM motor 19-58, FIM cog 27-35)	—	—	—	—	—	—	—	—	—
5AB3 (Bl. weighted FIM motor 50-91, FIM cog 19-26)	—	—	—	100.6	—	—	—	—	—
5AB4 (Bl. weighted FIM motor 19-49, FIM cog 19-26)	—	—	—	—	—	—	—	—	—
5AB5 (Bl. weighted FIM motor 39-91, FIM cog 5-18)	—	—	—	72.8	80.2	—	—	—	—
5AB6 (Bl. weighted FIM motor 19-38, FIM cog 5-18)	—	—	—	—	—	—	—	—	—
5AP1 (MMT, weighted FIM motor 51-91)	—	—	—	—	—	—	—	—	—
5AP2 (MMT, weighted FIM motor 19-50)	—	—	—	—	—	—	—	—	—
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	—	—	—	—	—	—	—	—	—
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	—	—	—	—	—	—	—	—	—
All Brain AN-SNAP classes	—	—	—	83.4	64.2	—	—	—	—

SPECIALIST									
AN-SNAP class	Never in PTA	1 day	2-7 days	8-28 days	29-90 days	>90 days	PTA at dis.	Unable PTA	No PTA record
5AB1 (Bl. weighted FIM motor 59-91, FIM cog 27-35)	109.7	—	107.4	111.2	108.4	—	—	—	—
5AB2 (Bl. weighted FIM motor 19-58, FIM cog 27-35)	—	—	—	—	—	—	—	—	—
5AB3 (Bl. weighted FIM motor 50-91, FIM cog 19-26)	100.8	—	102.5	99.7	91.8	—	—	—	100.9
5AB4 (Bl. weighted FIM motor 19-49, FIM cog 19-26)	—	—	—	60.3	58.0	—	—	—	—
5AB5 (Bl. weighted FIM motor 39-91, FIM cog 5-18)	—	—	—	80.7	75.4	70.0	—	—	90.8
5AB6 (Bl. weighted FIM motor 19-38, FIM cog 5-18)	—	—	—	39.4	40.4	—	—	—	—
5AP1 (MMT, weighted FIM motor 51-91)	96.0	—	96.0	93.7	92.3	—	—	—	—
5AP2 (MMT, weighted FIM motor 19-50)	—	—	65.8	53.8	53.6	—	—	—	—
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	—	—	—	—	33.5	—	—	—	—
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	—	—	—	—	24.0	19.5	—	22.0	—
All Brain AN-SNAP classes	97.5	73.3	94.0	89.8	69.7	40.7	51.8	59.6	77.2

NON-SPECIALIST									
AN-SNAP class	Never in PTA	1 day	2-7 days	8-28 days	29-90 days	>90 days	PTA at dis.	Unable PTA	No PTA record
5AB1 (Bl. weighted FIM motor 59-91, FIM cog 27-35)	98.5	107.1	108.7	103.5	—	—	—	—	99.3
5AB2 (Bl. weighted FIM motor 19-58, FIM cog 27-35)	77.9	—	73.5	77.3	—	—	—	—	76.8
5AB3 (Bl. weighted FIM motor 50-91, FIM cog 19-26)	84.0	—	86.4	97.1	95.6	—	—	—	85.5
5AB4 (Bl. weighted FIM motor 19-49, FIM cog 19-26)	57.3	—	—	—	—	—	—	—	58.8
5AB5 (Bl. weighted FIM motor 39-91, FIM cog 5-18)	68.9	—	—	81.4	77.6	—	—	—	69.1
5AB6 (Bl. weighted FIM motor 19-38, FIM cog 5-18)	40.8	—	—	41.4	44.0	—	—	—	37.6
5AP1 (MMT, weighted FIM motor 51-91)	94.7	101.9	101.0	93.1	—	—	—	—	88.2
5AP2 (MMT, weighted FIM motor 19-50)	68.6	67.6	—	59.1	60.4	—	—	—	60.1
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	—	—	—	—	—	—	—	—	23.6
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	—	—	—	—	22.0	—	—	—	—
All Brain AN-SNAP classes	79.7	84.9	80.7	84.8	70.3	—	78.0	68.6	75.7

Note: First admission episodes.

Average FIM change by AN-SNAP class and duration of PTA

AN-SNAP class	YOUR FACILITY								
	Never in PTA	1 day	2-7 days	8-28 days	29-90 days	>90 days	PTA at dis.	Unable PTA	No PTA record
5AB1 (Bl. weighted FIM motor 59-91, FIM cog 27-35)	—	—	—	—	—	—	—	—	—
5AB2 (Bl. weighted FIM motor 19-58, FIM cog 27-35)	—	—	—	—	—	—	—	—	—
5AB3 (Bl. weighted FIM motor 50-91, FIM cog 19-26)	—	—	—	16.9	—	—	—	—	—
5AB4 (Bl. weighted FIM motor 19-49, FIM cog 19-26)	—	—	—	—	—	—	—	—	—
5AB5 (Bl. weighted FIM motor 39-91, FIM cog 5-18)	—	—	—	44.6	33.8	—	—	—	—
5AB6 (Bl. weighted FIM motor 19-38, FIM cog 5-18)	—	—	—	—	—	—	—	—	—
5AP1 (MMT, weighted FIM motor 51-91)	—	—	—	—	—	—	—	—	—
5AP2 (MMT, weighted FIM motor 19-50)	—	—	—	—	—	—	—	—	—
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	—	—	—	—	—	—	—	—	—
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	—	—	—	—	—	—	—	—	—
All Brain AN-SNAP classes	—	—	—	33.6	44.1	—	—	—	—

AN-SNAP class	SPECIALIST								
	Never in PTA	1 day	2-7 days	8-28 days	29-90 days	>90 days	PTA at dis.	Unable PTA	No PTA record
5AB1 (Bl. weighted FIM motor 59-91, FIM cog 27-35)	11.9	—	16.0	10.5	9.4	—	—	—	—
5AB2 (Bl. weighted FIM motor 19-58, FIM cog 27-35)	—	—	—	—	—	—	—	—	—
5AB3 (Bl. weighted FIM motor 50-91, FIM cog 19-26)	14.8	—	15.3	18.7	23.9	—	—	—	16.7
5AB4 (Bl. weighted FIM motor 19-49, FIM cog 19-26)	—	—	—	46.2	44.7	—	—	—	—
5AB5 (Bl. weighted FIM motor 39-91, FIM cog 5-18)	—	—	—	35.0	37.1	32.4	—	—	19.7
5AB6 (Bl. weighted FIM motor 19-38, FIM cog 5-18)	—	—	—	79.4	59.3	—	—	—	—
5AP1 (MMT, weighted FIM motor 51-91)	22.3	—	22.8	24.2	24.8	—	—	—	—
5AP2 (MMT, weighted FIM motor 19-50)	—	—	51.0	61.9	55.6	—	—	—	—
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	—	—	—	—	56.3	—	—	—	—
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	—	—	—	—	78.6	52.6	—	35.0	—
All Brain AN-SNAP classes	20.9	44.9	25.0	27.7	40.7	46.1	36.9	32.8	23.3

AN-SNAP class	NON-SPECIALIST								
	Never in PTA	1 day	2-7 days	8-28 days	29-90 days	>90 days	PTA at dis.	Unable PTA	No PTA record
5AB1 (Bl. weighted FIM motor 59-91, FIM cog 27-35)	16.3	9.9	9.1	12.8	—	—	—	—	12.1
5AB2 (Bl. weighted FIM motor 19-58, FIM cog 27-35)	25.8	—	39.5	33.7	—	—	—	—	28.3
5AB3 (Bl. weighted FIM motor 50-91, FIM cog 19-26)	18.3	—	23.4	18.1	15.3	—	—	—	22.8
5AB4 (Bl. weighted FIM motor 19-49, FIM cog 19-26)	30.6	—	—	—	—	—	—	—	39.3
5AB5 (Bl. weighted FIM motor 39-91, FIM cog 5-18)	18.3	—	—	25.3	26.9	—	—	—	25.7
5AB6 (Bl. weighted FIM motor 19-38, FIM cog 5-18)	32.6	—	—	42.8	45.3	—	—	—	43.4
5AP1 (MMT, weighted FIM motor 51-91)	21.4	10.7	15.6	21.3	—	—	—	—	21.1
5AP2 (MMT, weighted FIM motor 19-50)	42.7	42.3	—	39.9	48.4	—	—	—	37.2
5AZ1 (Bl or MMT, age ≥ 59, weighted FIM motor 13-18)	—	—	—	—	—	—	—	—	39.4
5AZ2 (Bl or MMT, age ≤ 58, weighted FIM motor 13-18)	—	—	—	—	92.8	—	—	—	—
All Brain AN-SNAP classes	23.3	26.1	29.0	24.7	34.6	—	14.4	30.6	26.1

Note: First admission episodes.

Low FIM score summary report

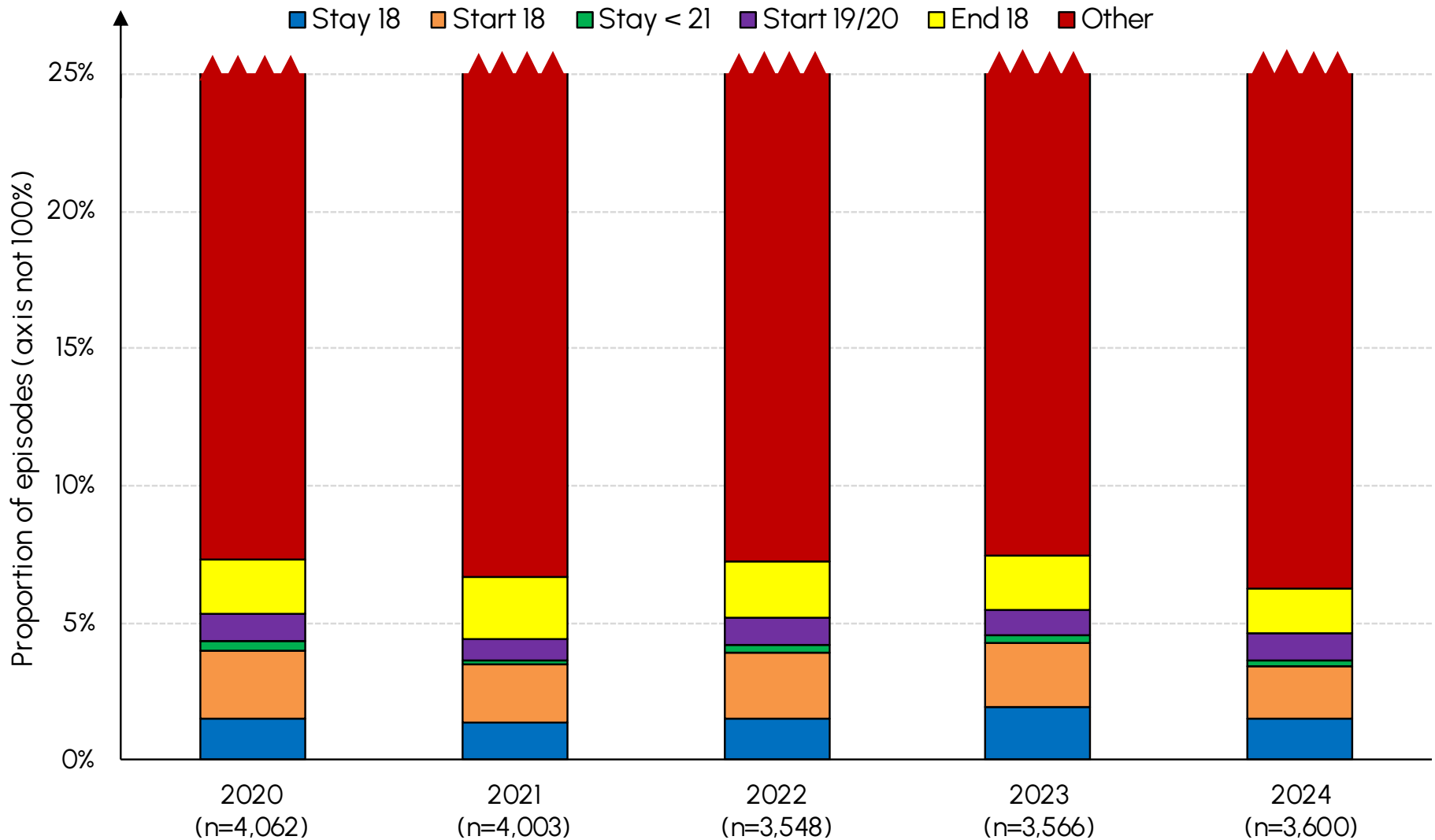
Low FIM score category definitions

The Low FIM score categories are divided as follows:

- Stay 18 – FIM score of 18 on admission AND discharge.
- Start 18 – FIM score of 18 on admission, FIM score >18 on discharge
- Stay <21 – FIM score of 19 or 20 on admission, score of ≤ 20 on discharge
- Start 19/20 – FIM score of 19 or 20 on admission, score of >20 on discharge
- End 18 – FIM score of >20 on admission, score of 18 on discharge
- Other – all other FIM scores

All graphs in this section reflect ALL data (TBI and NTBI) for the current reporting period, unless otherwise specified.

Low FIM score episodes over time



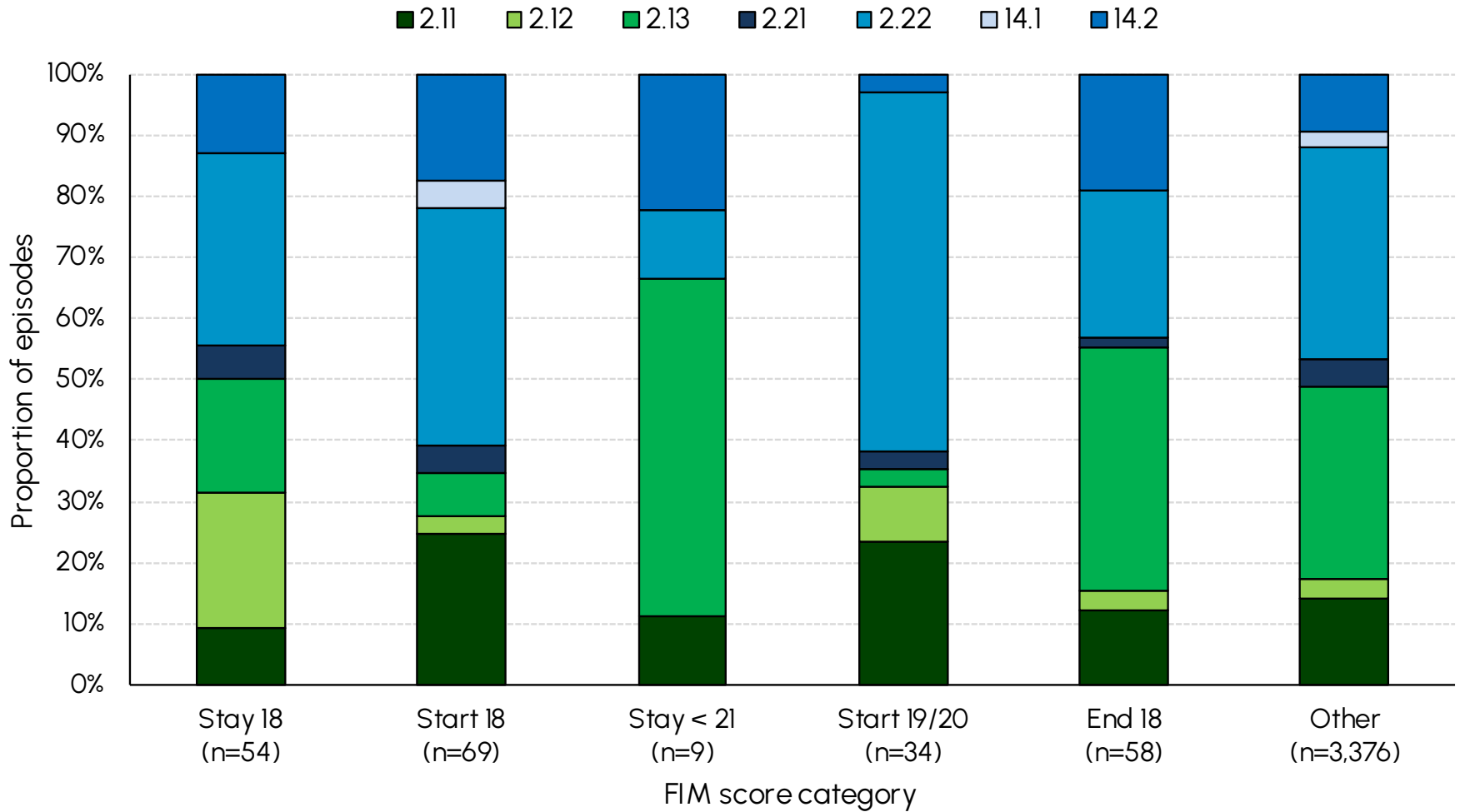
Low FIM score episodes over time

Year	Stay 18	Start 18	Stay < 21	Start 19/20	End 18	Other
YOUR FACILITY						
2020	5	5	0	6	2	102
2021	3	5	0	4	4	108
2022	5	3	1	1	3	94
2023	5	9	1	2	1	102
2024	3	4	1	3	2	100

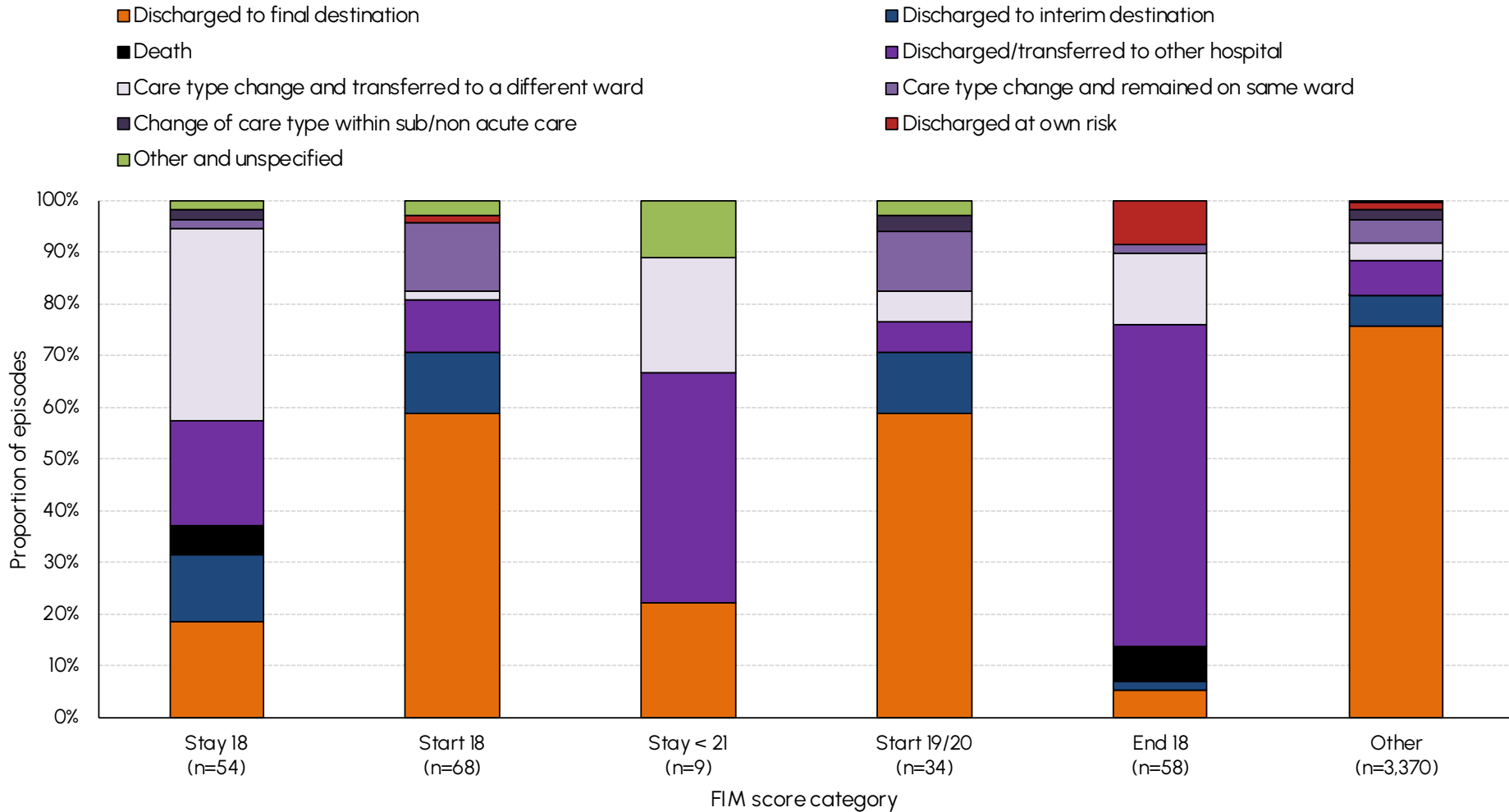
SPECIALIST (ALL FACILITIES)						
2020	36	67	10	22	26	1,080
2021	32	62	2	17	37	1,157
2022	36	55	6	14	26	963
2023	42	58	4	17	33	1,004
2024	41	43	5	21	23	1,088

NON-SPECIALIST (ALL FACILITIES)						
2020	25	33	5	18	54	2,686
2021	22	24	4	13	54	2,579
2022	18	29	5	20	48	2,328
2023	28	25	6	16	36	2,297
2024	13	26	4	13	35	2,288

Low FIM score impairment distribution



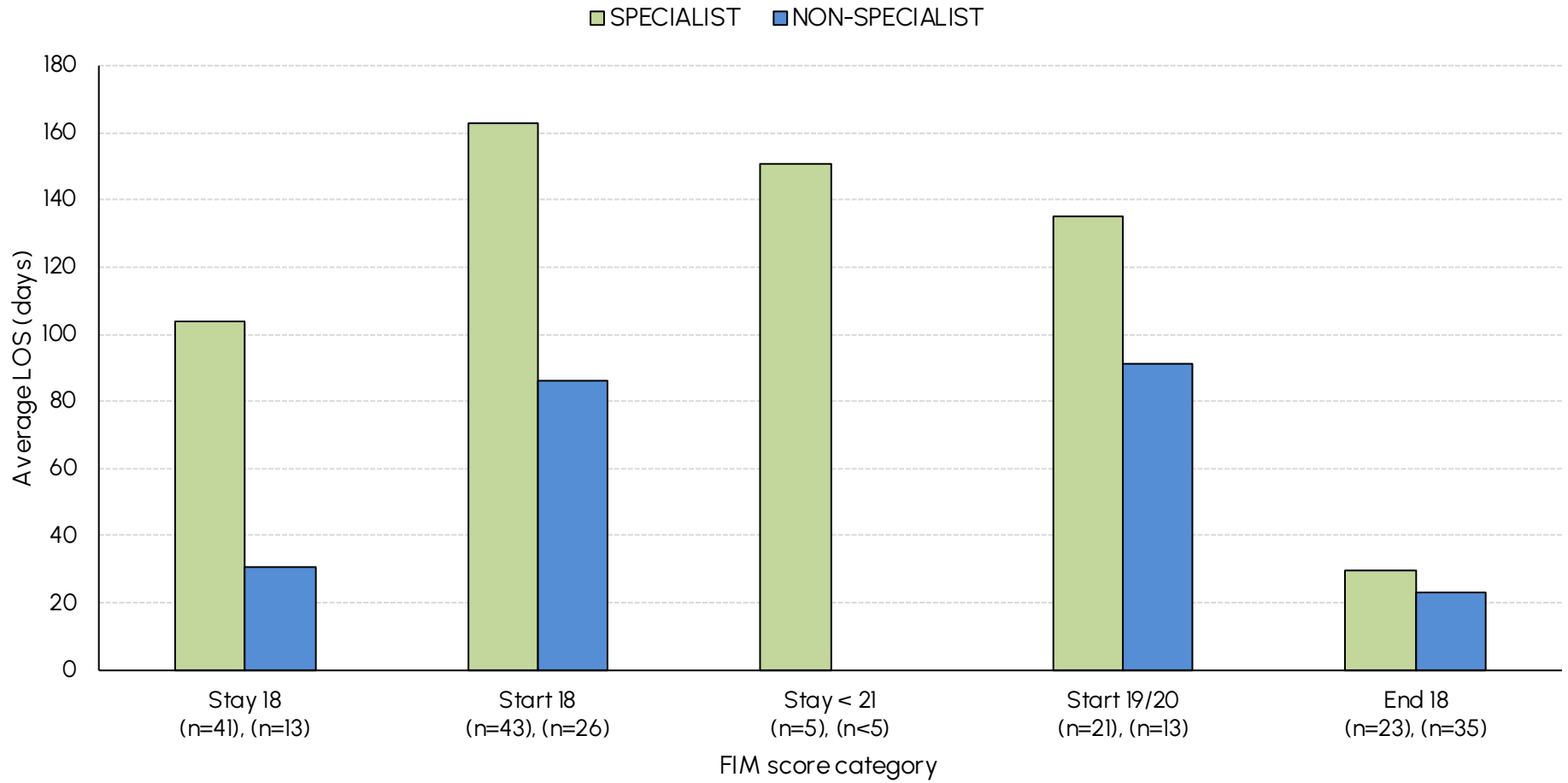
Low FIM score discharge destination



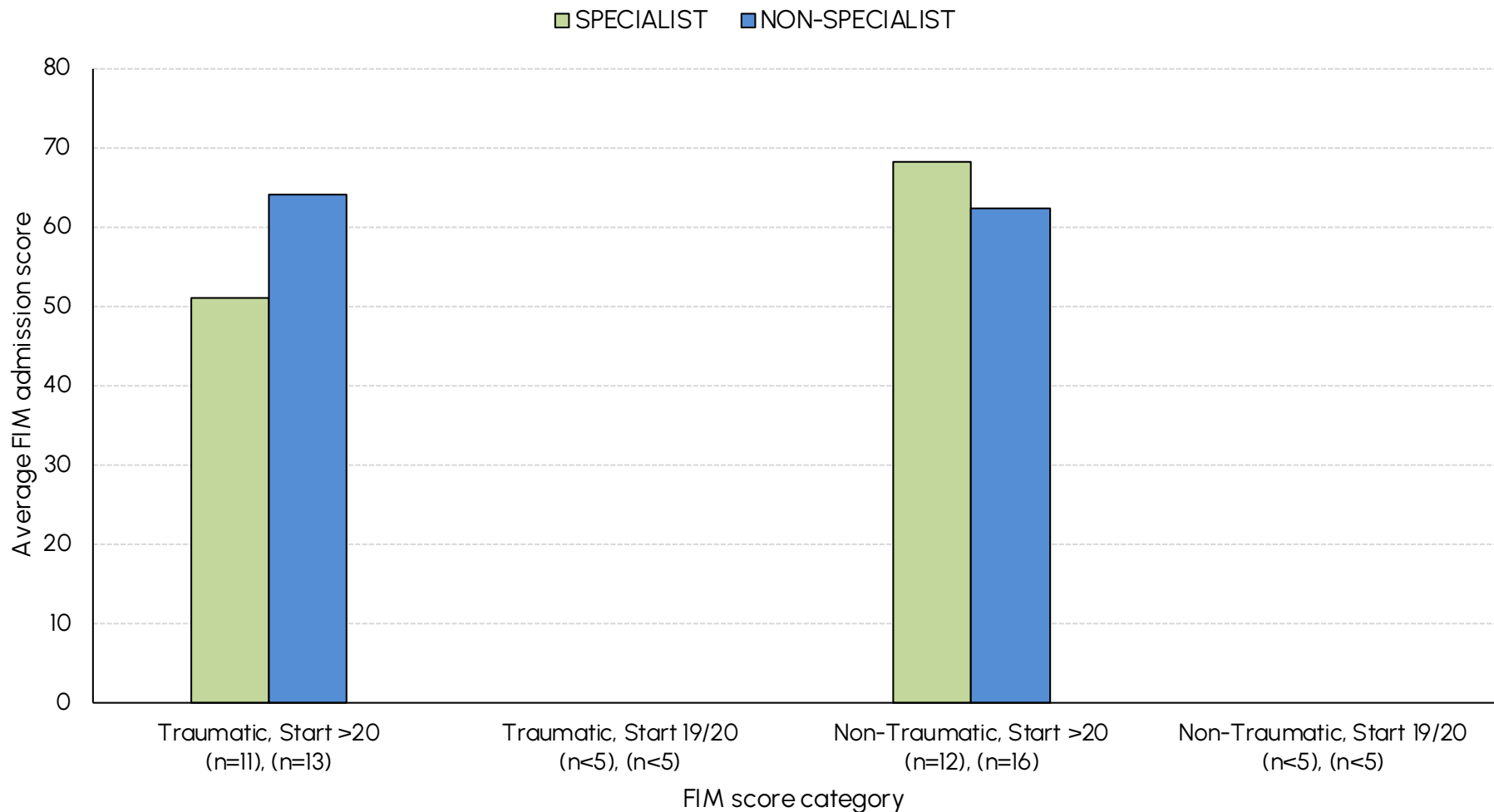
Low FIM score discharge destination

Discharge Destination	Stay 18	Start 18	Stay < 21	Start 19/20	End 18	Other
YOUR FACILITY						
Discharged to final destination	2	1	0	1	0	76
Discharged to interim destination	0	1	0	1	0	9
Death	0	0	0	0	0	0
Discharged/transferred to other hospital	0	0	1	0	2	4
Care type change and transferred to a different ward	1	0	0	1	0	3
Care type change and remained on same ward	0	2	0	0	0	6
Change of care type within sub/non acute care	0	0	0	0	0	0
Discharged at own risk	0	0	0	0	0	1
Other and unspecified	0	0	0	0	0	1
Total	3	4	1	3	2	100
SPECIALIST (ALL FACILITIES)						
Discharged to final destination	9	27	2	13	1	855
Discharged to interim destination	3	3	0	2	0	60
Death	2	0	0	0	0	0
Discharged/transferred to other hospital	6	4	3	1	16	56
Care type change and transferred to a different ward	19	1	0	2	2	40
Care type change and remained on same ward	1	7	0	3	0	57
Change of care type within sub/non acute care	0	0	0	0	0	1
Discharged at own risk	0	1	0	0	4	16
Other and unspecified	1	0	0	0	0	3
Total	41	43	5	21	23	1,088
NON-SPECIALIST (ALL FACILITIES)						
Discharged to final destination	1	13	0	7	2	1,693
Discharged to interim destination	4	5	0	2	1	140
Death	1	0	0	0	4	1
Discharged/transferred to other hospital	5	3	1	1	20	177
Care type change and transferred to a different ward	1	0	2	0	6	74
Care type change and remained on same ward	0	2	0	1	1	90
Change of care type within sub/non acute care	1	0	0	1	0	68
Discharged at own risk	0	0	0	0	1	26
Other and unspecified	0	2	1	1	0	13
Total	13	25	4	13	35	2,282

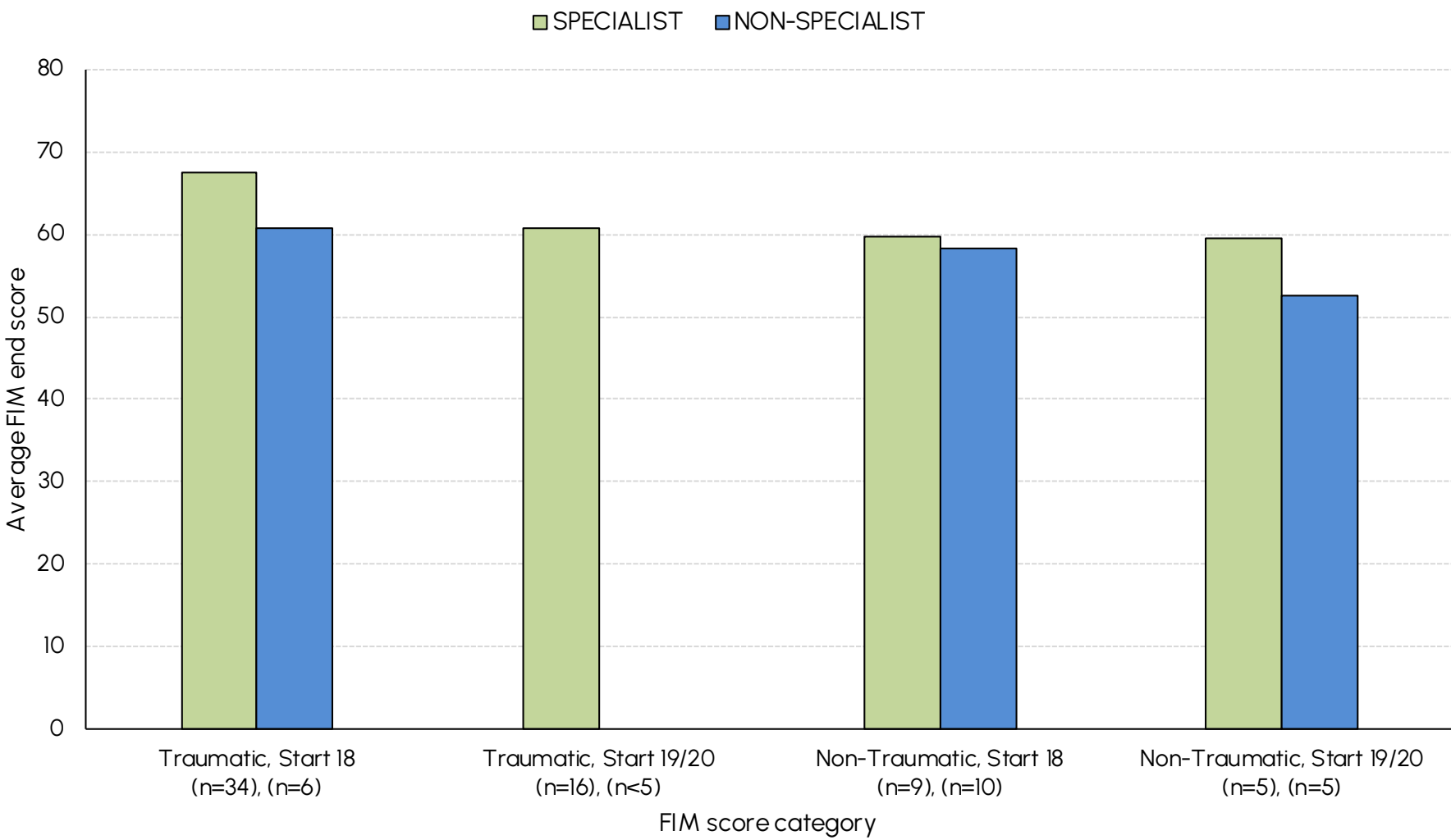
Low FIM score average LOS



Low FIM score average FIM admission: episodes with end FIM =18



Low FIM score average FIM discharge: episodes with start FIM ≤ 20



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

In Calendar Year 2015 new benchmark groups were introduced. With the exception of brain injury and spinal cord dysfunction an episode's benchmark group is determined by the country of the submitting facility and can be either Australia or New Zealand. For episodes recorded as brain injury or spinal cord dysfunction (or major multi trauma involving brain injury and/or spinal cord dysfunction) the benchmark group is determined by first admission episodes reported by all specialist (brain/spinal) units in both Australia and New Zealand, calculated separately for traumatic and non-traumatic episodes. The benchmark data set is all episodes during the reporting period in the AROC database.

Appendix 1: Glossary

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 average 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:

$LOS_{diff} = \text{episode's LOS} - \text{mean LOS appropriate AN-SNAP class}$

$\text{Casemix-adjusted relative mean} = \text{Sum of } LOS_{diff} \text{ for all episodes divided by Number of episodes}$

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 dysfunction & 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.

Appendix 1: Glossary

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]
 - $(\text{Discharge FIM} - \text{Admission FIM}) / (\text{126} - \text{Admission FIM})$
 - e.g. $(90 - 50) / (126 - 50) = 40 / 76 = 52.6\%$
- If actual FIM change < 0 [declined]
 - $(\text{Discharge FIM} - \text{Admission FIM}) / (\text{Admission FIM})$
 - 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.

Appendix 1: Glossary



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 (Pathway 3)




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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