aroc
Australasian Rehabilitation Outcomes Centre

australian health services research institute

AROC Impairment Specific Report

Inpatient – Pathway 3

SPINAL CORD DYSFUNCTION

Anywhere Hospital

January 2016 – December 2016

Australasian Faculty of Rehabilitation Medicine

UNIVERSITY OF WOLLONGONG

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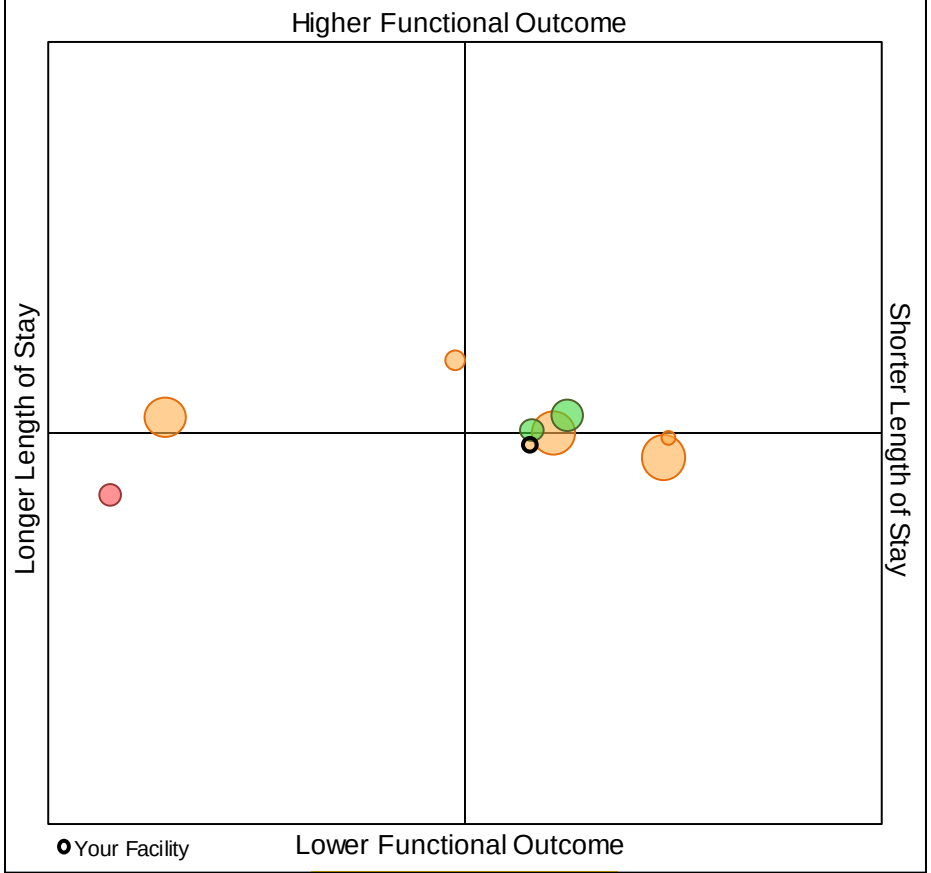
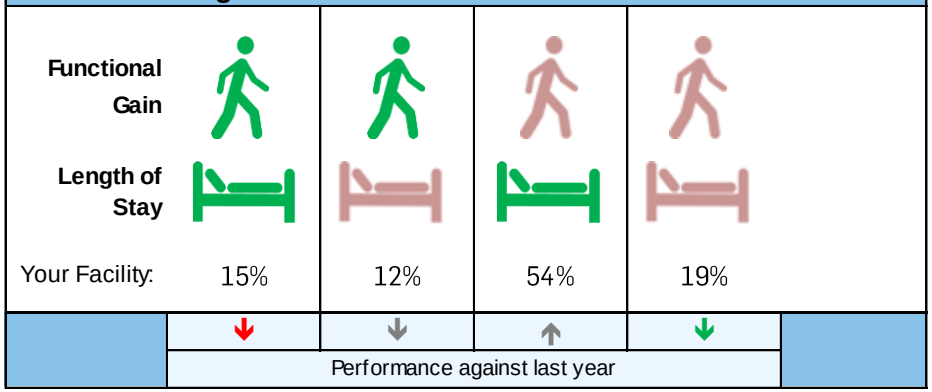
Spinal Dysfunction Dashboard (CY 2016)

Rehabilitation Outcomes by Facility

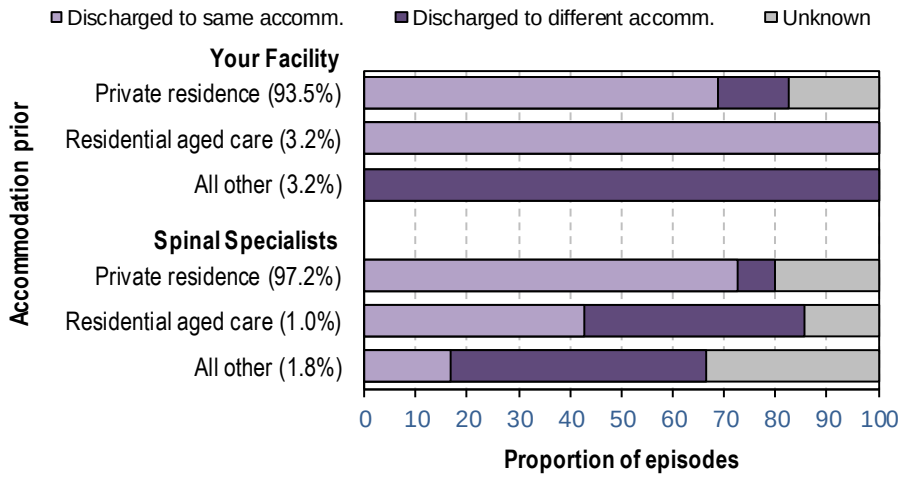


Outlier facilities are not shown on graph	Amber (Status)	Trend

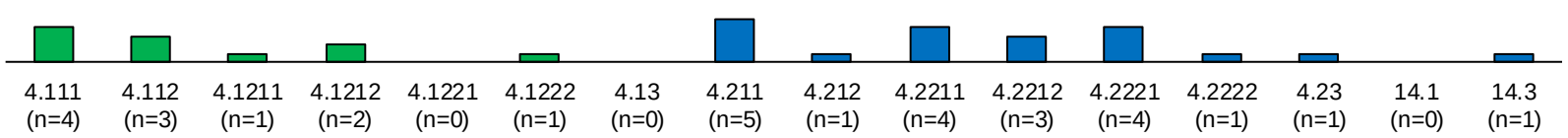
Performance Against Benchmark



Change in Accommodation



Number of Episodes by Impairment



12	Facility Beds (All wards)
31	All Episodes (Total)

Spinal Dysfunction Dashboard (CY 2016)

Key Indicators*

Your Facility		Spinal Specialists	
Average Age:	57.4	Average Age:	52.7
Mortality Rate:	0.0%	Mortality Rate:	0.4%
% with at least one comorbidity:	39%	% with at least one comorbidity:	36%
% with at least one complication:	48%	% with at least one complication:	39%
% episodes with start delays:	11%	% episodes with start delays:	14%
Days between onset and rehab episode:	30.8	Days between onset and rehab episode:	32.0
Days between clinically rehab ready & start date:	1.7	Days between clinically rehab ready & start date:	1.2

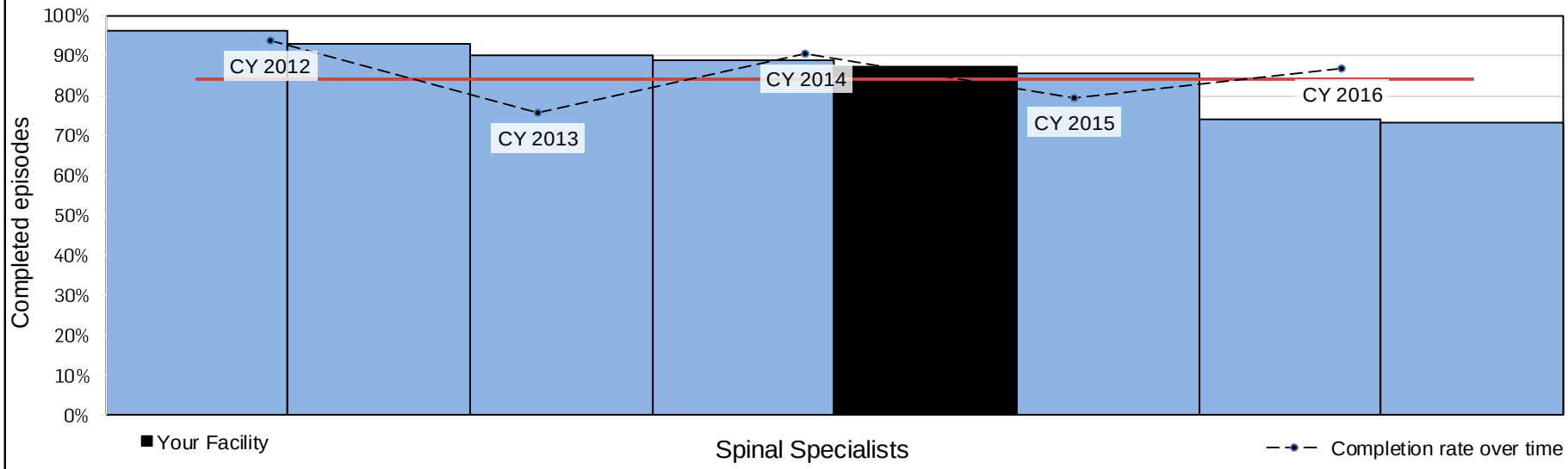
* Mean value provided unless otherwise specified

Facility FIM Training*

FIM Credentialed Staff per 100 Episodes	FIM Credentialed Facility Trainers
10.0 Your Facility	2 Your Facility
11.7 Spinal Specialists (Mean)	2 AROC Suggested Minimum

* This includes all impairments from all wards

Completed Episodes by Facility



Introducing the Impairment Specific Reports

This is the fourth AROC Impairment Specific Report for spinal cord dysfunction which compares YOUR FACILITY's data to data from SPECIALIST spinal cord dysfunction services and data from NON-SPECIALIST spinal cord dysfunction services (Australia and New Zealand). Each Impairment Specific Report is structured as a series of chapters. Each report will present an overall big picture chapter on the impairment followed by a chapter looking at FIM item scoring at YOUR FACILITY. An outcomes analysis chapter followed by an explanatory data chapter. At the end is analysis by impairment specific data items.

While SPECIALIST data includes all SPECIALIST facilities with data on this impairment and NON-SPECIALIST data includes all NON-SPECIALIST facilities with data on this impairment, facilities will only receive this report if they are considered a SPECIALIST facility.

AROC welcomes your feedback on this report.

NOTE: This report should be considered in conjunction with the Outcome Benchmarks Report for your facility.

Data used in this report

This report summarises Spinal Cord Dysfunction episodes in calendar year 2016 (1 January 2016 to 31 December 2016) collected in the V4 data set - Pathway 3 (inpatient direct care). Unit of counting is by concatenated* episode, not by patient.

All tables and graphs present calendar year 2016 data unless otherwise indicated, and the number of episodes from Anywhere Hospital in 2016 are provided. Where there are less than five episodes within a subgroup, summary data are not provided.

Casemix analysis uses the version 4 AN-SNAP classes (Appendix 3), introduced July 2016. Casemix adjustment is against all SPECIALIST units.

NOTE: Appendix 1 (Glossary) contains definitions of concepts referred to in this report. An understading of these will help with interpretation of the data.

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

Spinal cord dysfunction impairment codes

Spinal cord dysfunction episodes were identified as those with the following AROC impairment codes:

Non-Traumatic

- 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

- 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
- 14.1 – Major Multiple Trauma, Brain + Spinal cord injury
- 14.3 – Major Multiple Trauma, Spinal cord injury + multi fracture/amputation

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

Spinal cord dysfunction AN-SNAP classes

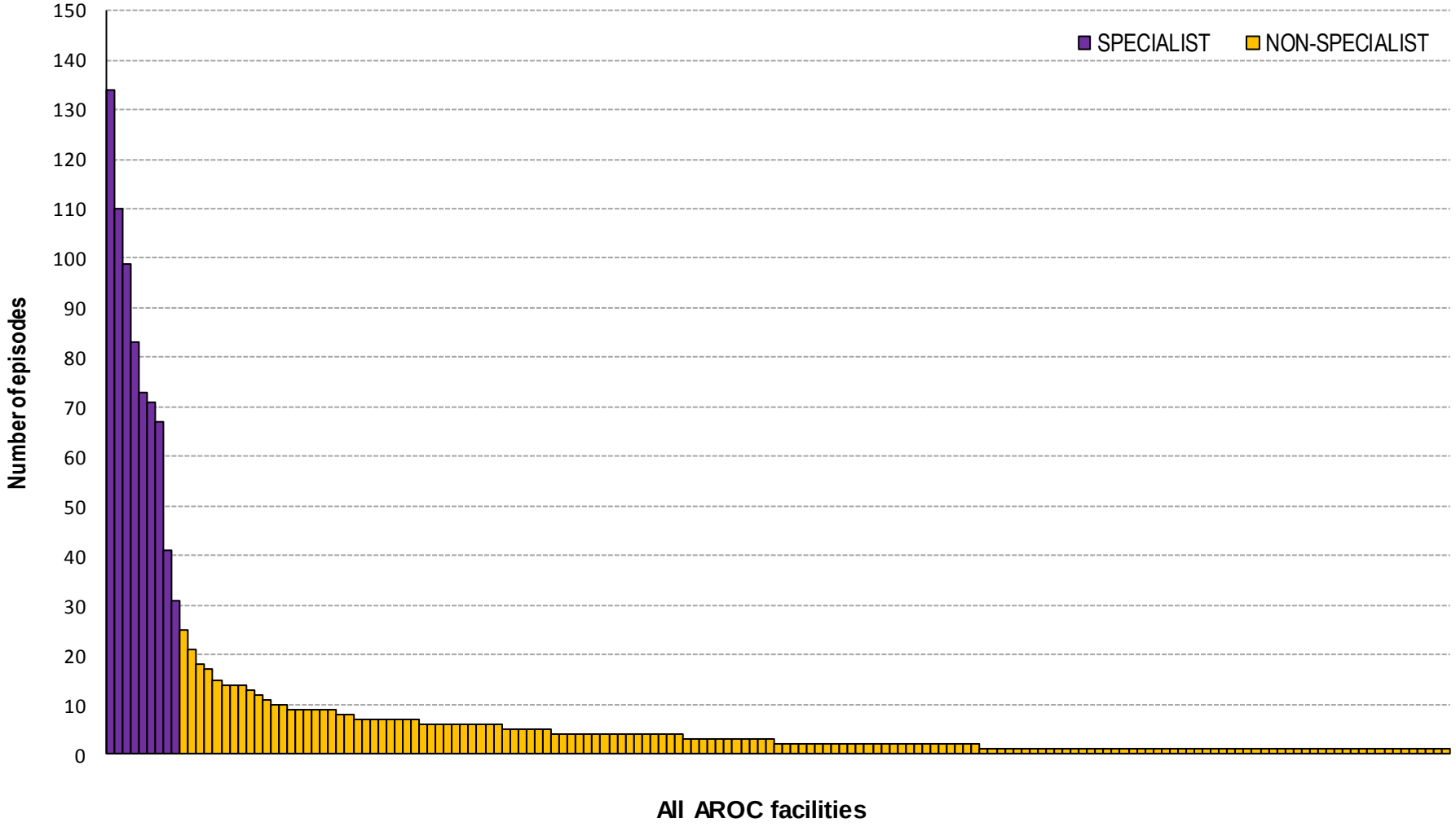
Levels of functioning for spinal cord dysfunction are categorised by the following version 4 AN-SNAP classes:

- 4AD1 Spinal cord dysfunction, Age ≥ 50, weighted FIM motor 42-91
- 4AD2 Spinal cord dysfunction, Age ≥ 50, weighted FIM motor 19-41
- 4AD3 Spinal cord dysfunction, Age ≤ 49, weighted FIM motor 34-91
- 4AD4 Spinal cord dysfunction, Age ≤ 49, weighted FIM motor 19-33
- 4AP1 Major Multiple Trauma, weighted FIM motor 19-91
- 4AZ1 Weighted FIM motor score 13-18, Spine, MMT, Age ≥ 49
- 4AZ2 Weighted FIM motor score 13-18, Spine, MMT, Age ≤ 48

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

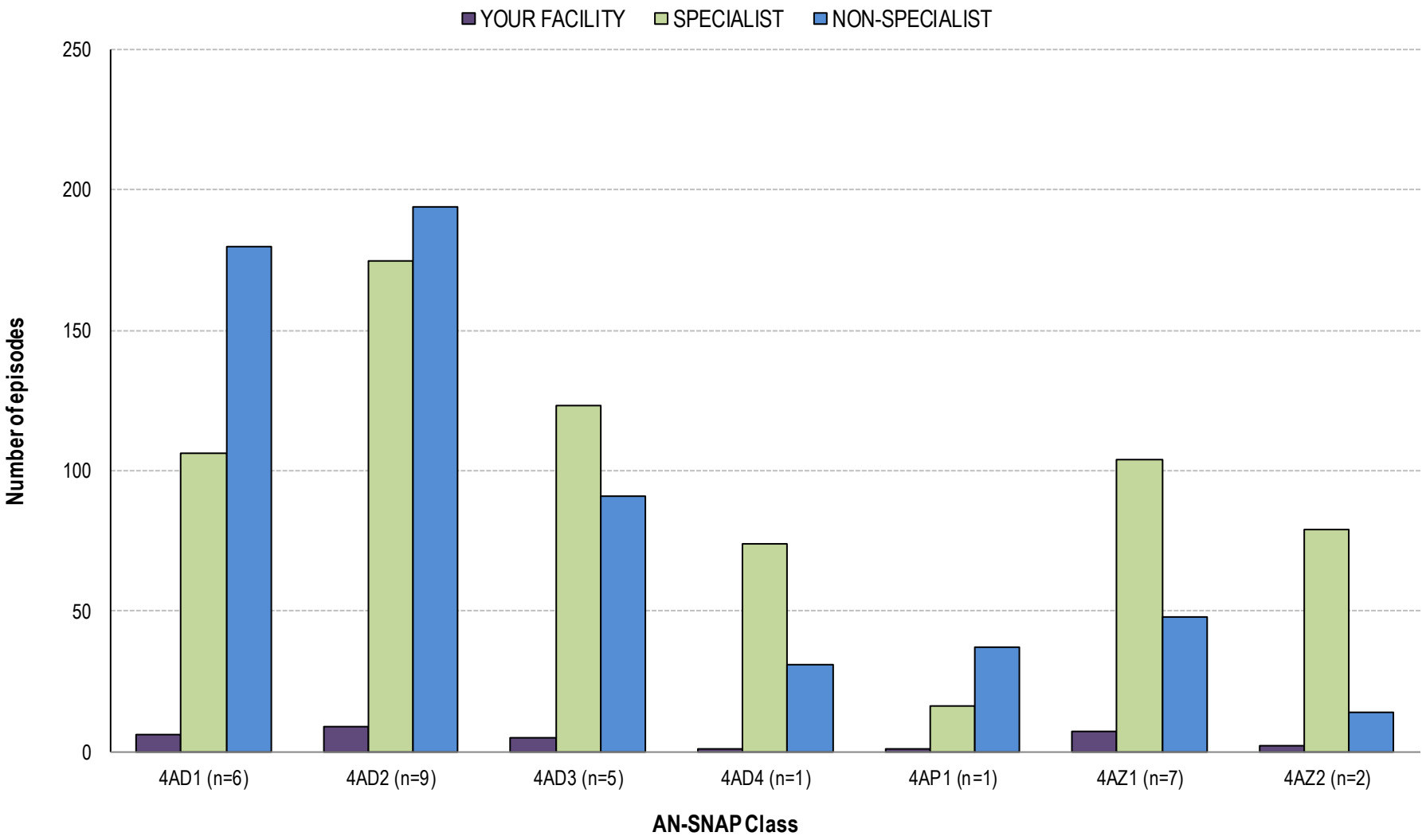
The BIG picture

Volume of episodes by facilities treating spinal cord dysfunction



Number of traumatic and non-traumatic episodes over time – YOUR FACILITY

Number of episodes by AN-SNAP class

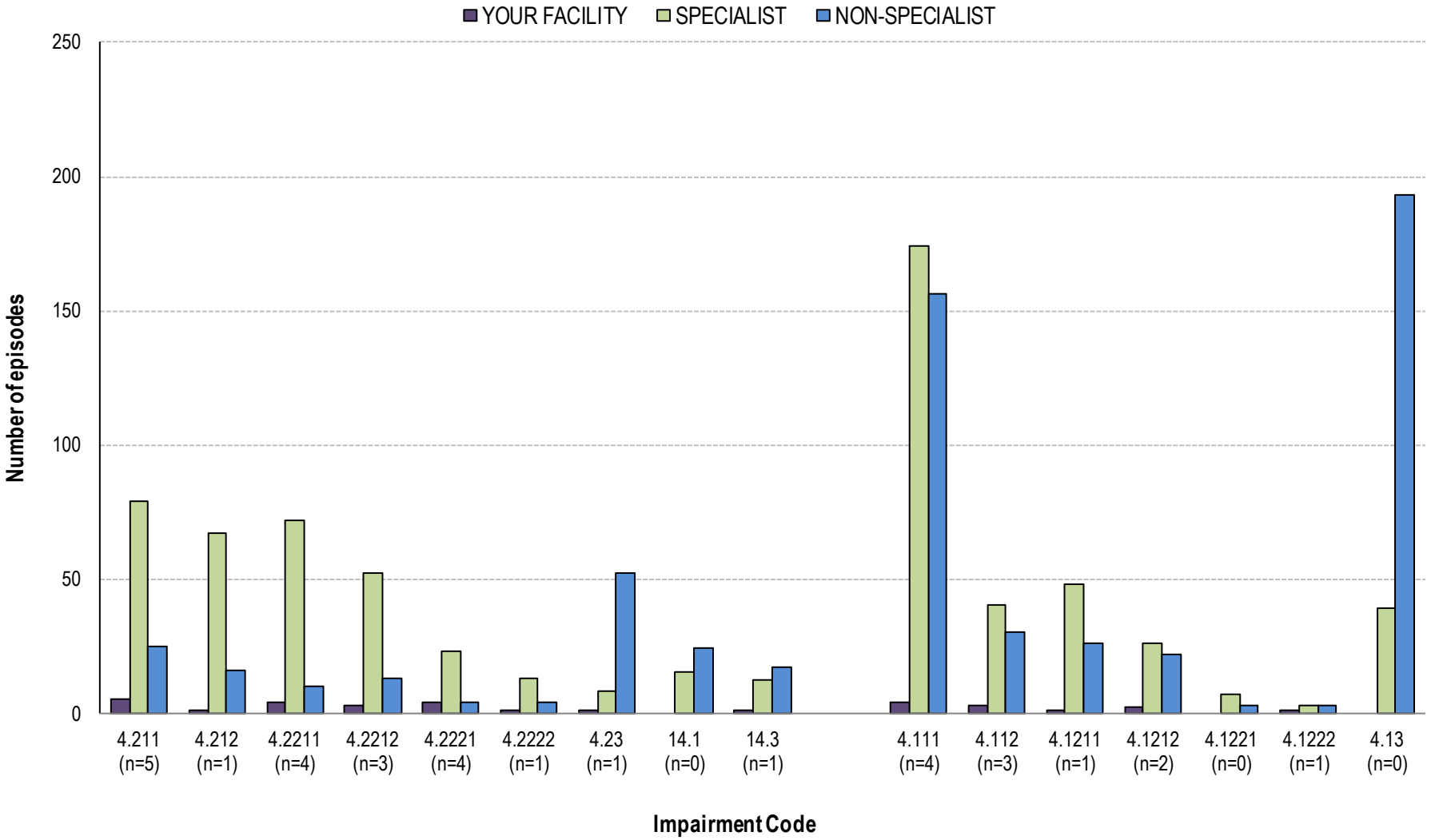


Number of episodes by AN-SNAP class

	YOUR FACILITY		SPECIALIST		NON-SPECIALIST	
AN-SNAP class	**No.**	**%**	**No.**	**%**	**No.**	**%**
4AD1 (SCI, age ≥ 50, weighted FIM motor 42-91)	6	19.4	106	15.7	180	30.3
4AD2 (SCI, age ≥ 50, weighted FIM motor 19-41)	9	29.0	175	25.8	194	32.6
4AD3 (SCI, age ≤ 49, weighted FIM motor 34-91)	5	16.1	123	18.2	91	15.3
4AD4 (SCI, age ≤ 49, weighted FIM motor 19-33)	1	3.2	74	10.9	31	5.2
4AP1 (MMT, weighted FIM motor 19-91)	1	3.2	16	2.4	37	6.2
4AZ1 (SCI or MMT, age ≥ 49, weighted FIM motor 13-18)	7	22.6	104	15.4	48	8.1
4AZ2 (SCI or MMT, age ≤ 48, weighted FIM motor 13-18)	2	6.5	79	11.7	14	2.4
All Spinal AN-SNAP classes	**31**	**100.0**	**677**	**100.0**	**595**	**100.0**

Note: 0 episode(s) at YOUR FACILITY, 1 episode(s) at SPECIALIST facilities and 3 episode(s) at NON-SPECIALIST facilities had an AN-SNAP class of 499A.

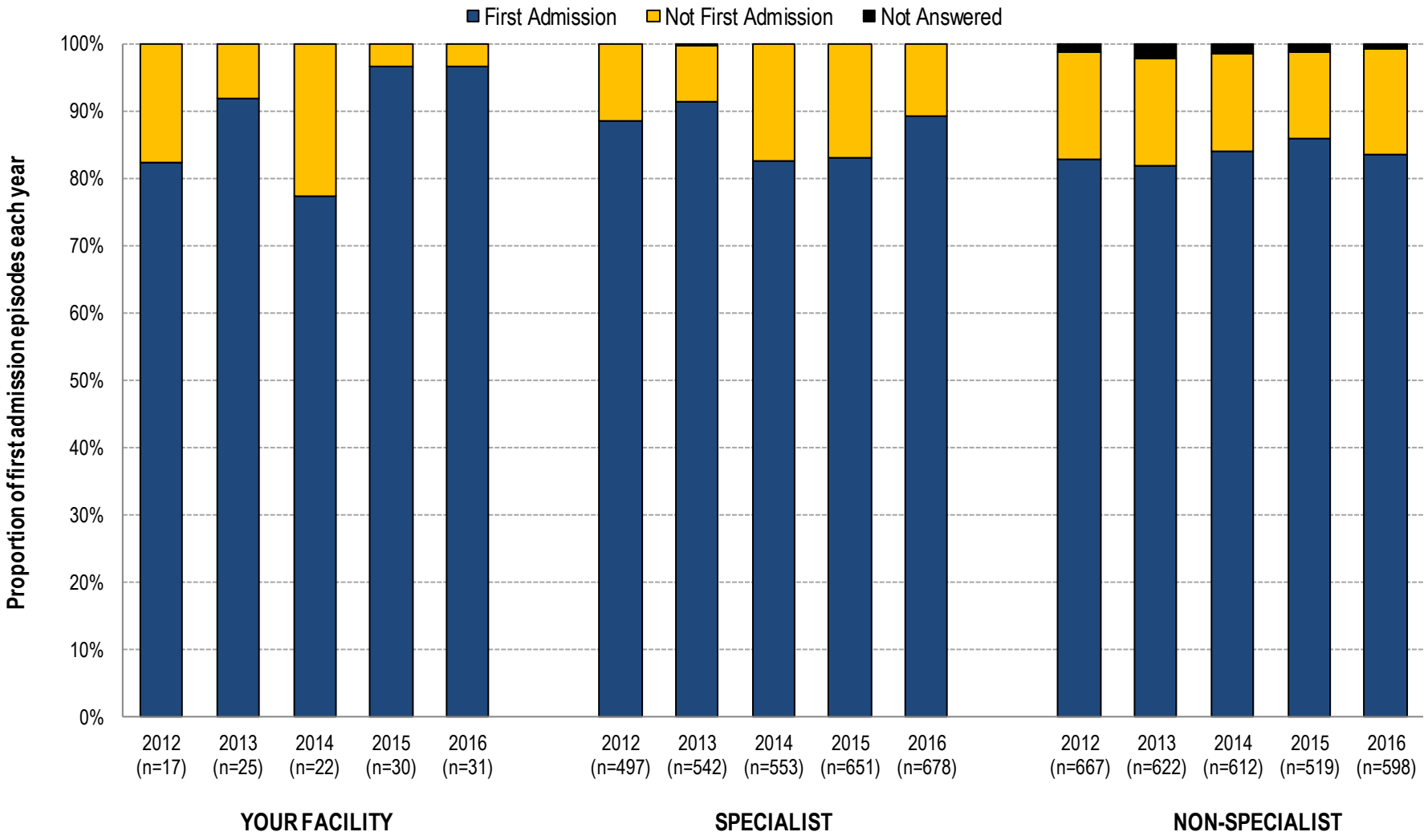
Number of traumatic and non-traumatic episodes by impairment



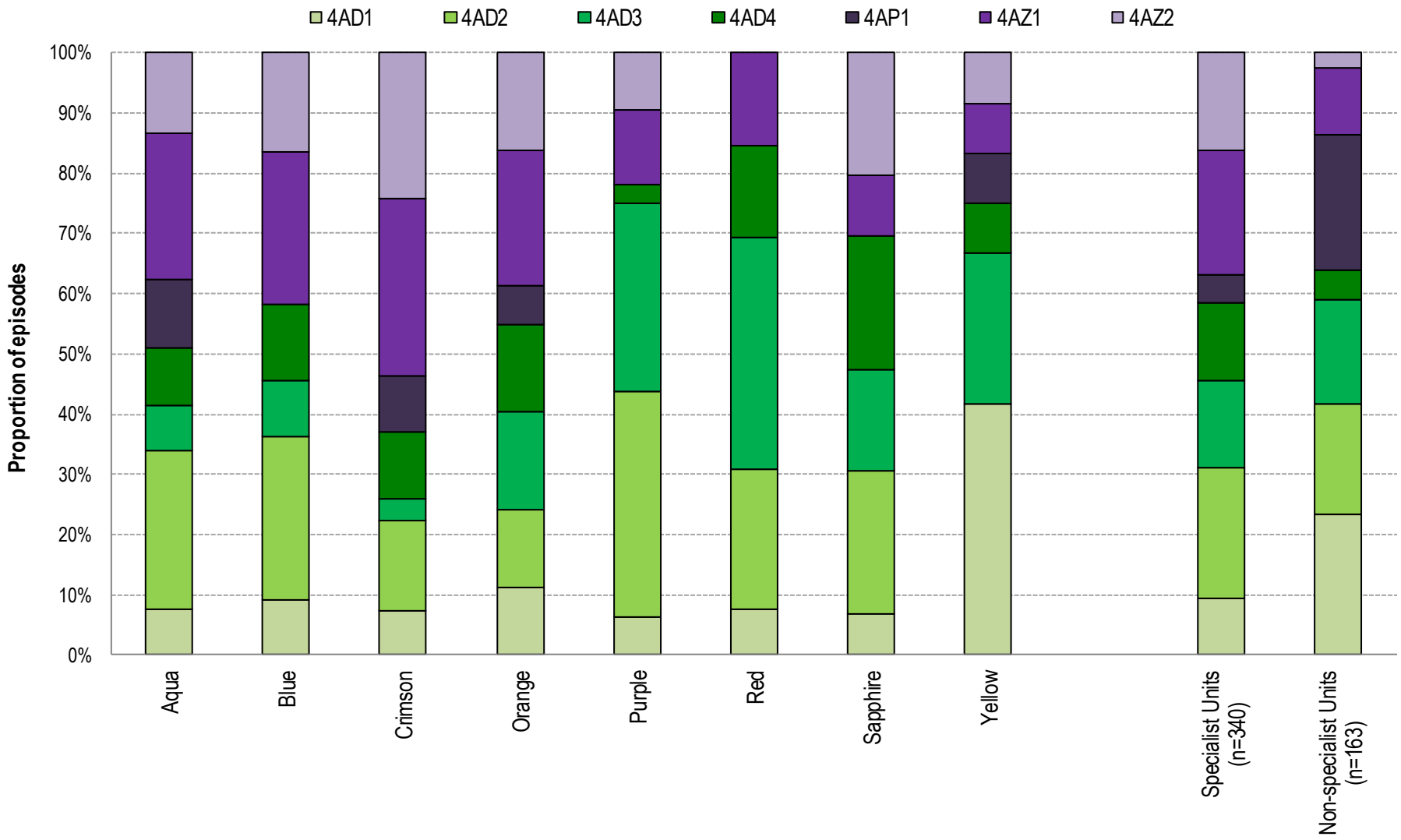
Traumatic and non-traumatic episodes by impairment

	YOUR FACILITY		SPECIALIST		NON-SPECIALIST	
Impairment	**No.**	**%**	**No.**	**%**	**No.**	**%**
Traumatic impairments						
4.211 Para-Inc	5	25.0	79	23.2	25	15.2
4.212 Para-Comp	1	5.0	67	19.6	16	9.7
4.2211 Quad-Inc C1-4	4	20.0	72	21.1	10	6.1
4.2212 Quad-Inc C5-8	3	15.0	52	15.2	13	7.9
4.2221 Quad-Comp C1-4	4	20.0	23	6.7	4	2.4
4.2222 Quad-Comp C5-8	1	5.0	13	3.8	4	2.4
4.23 Other TSCI	1	5.0	8	2.3	52	31.5
14.1 MMT: brain+spine	0	0.0	15	4.4	24	14.5
14.3 MMT: spine+other	1	5.0	12	3.5	17	10.3
Total TSCI	**20**	**100.0**	**341**	**100.0**	**165**	**100.0**
Non-traumatic impairments						
4.111 Para-Inc	4	36.4	174	51.6	156	36.0
4.112 Para-Comp	3	27.3	40	11.9	30	6.9
4.1211 Quad-Inc C1-4	1	9.1	48	14.2	26	6.0
4.1212 Quad-Inc C5-8	2	18.2	26	7.7	22	5.1
4.1221 Quad-Comp C1-4	0	0.0	7	2.1	3	0.7
4.1222 Quad-Comp C5-8	1	9.1	3	0.9	3	0.7
4.13 Other NTSCI	0	0.0	39	11.6	193	44.6
Total NTSCI	**11**	**100.0**	**337**	**100.0**	**433**	**100.0**
TOTAL SCI	**31**		**678**		**598**	

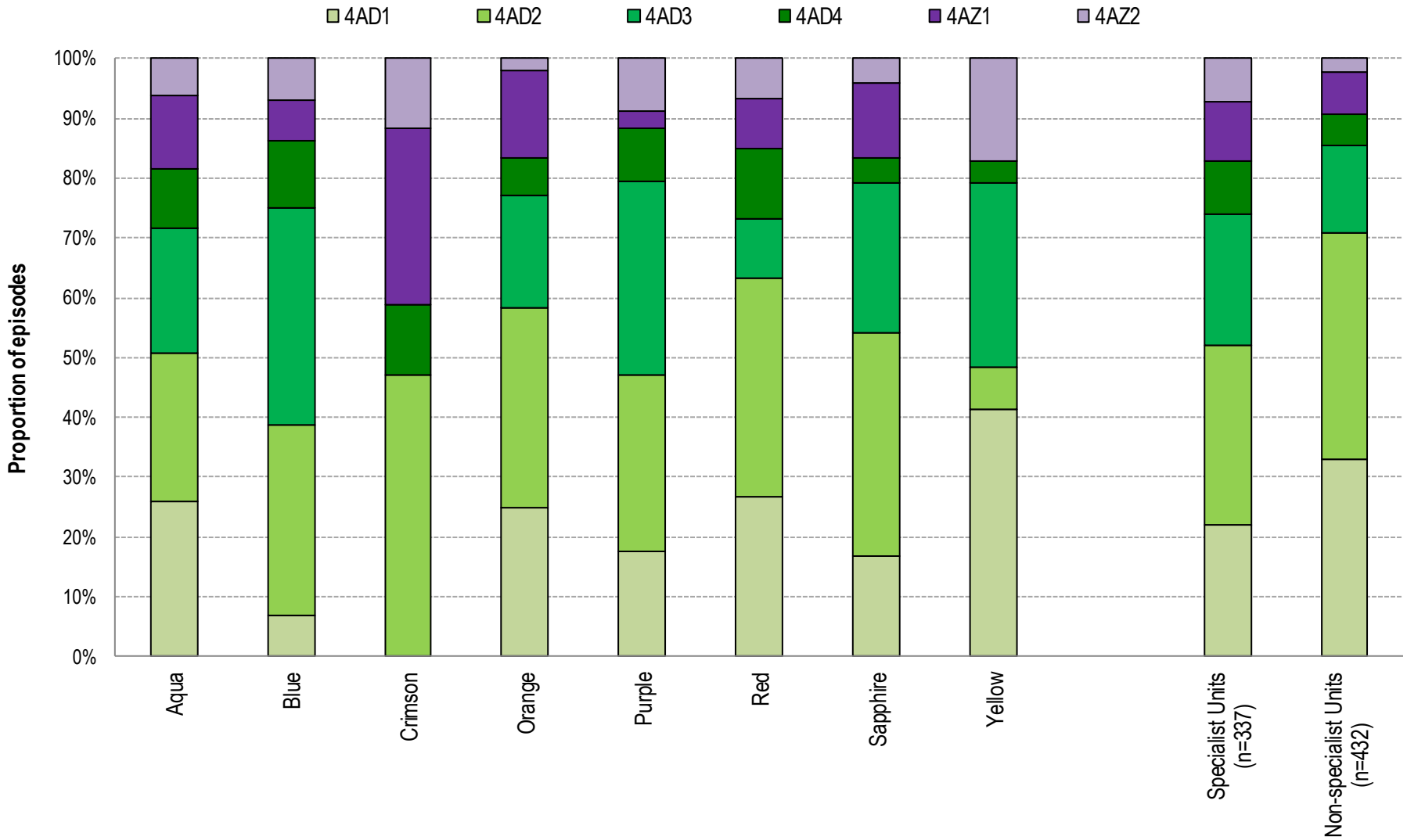
Proportion of first admission episodes over time



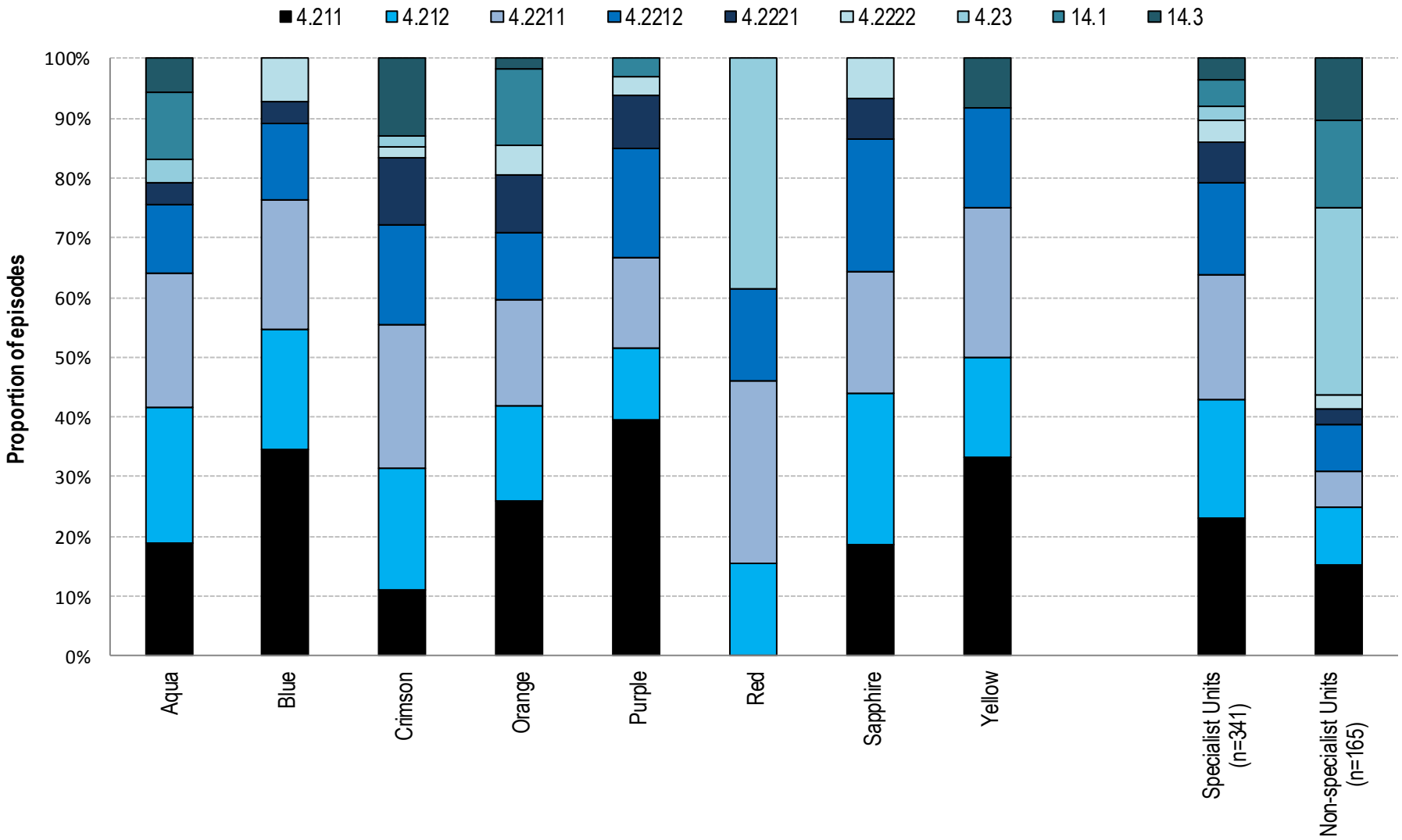
Proportion of traumatic episodes by facility by AN-SNAP class



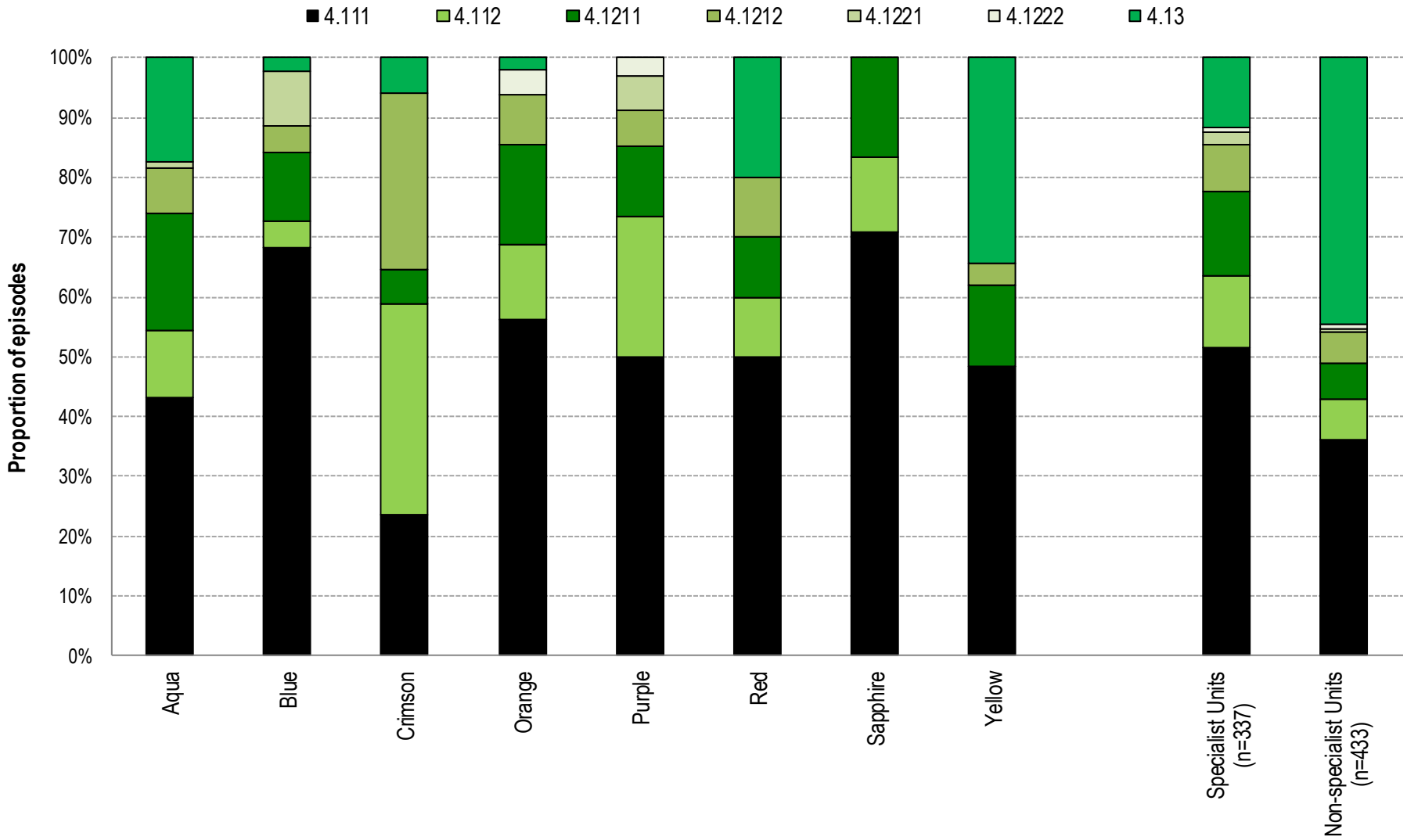
Proportion of non-traumatic episodes by facility by AN-SNAP class



Proportion of traumatic episodes by impairment by facility



Proportion of non-traumatic episodes by Impairment by facility



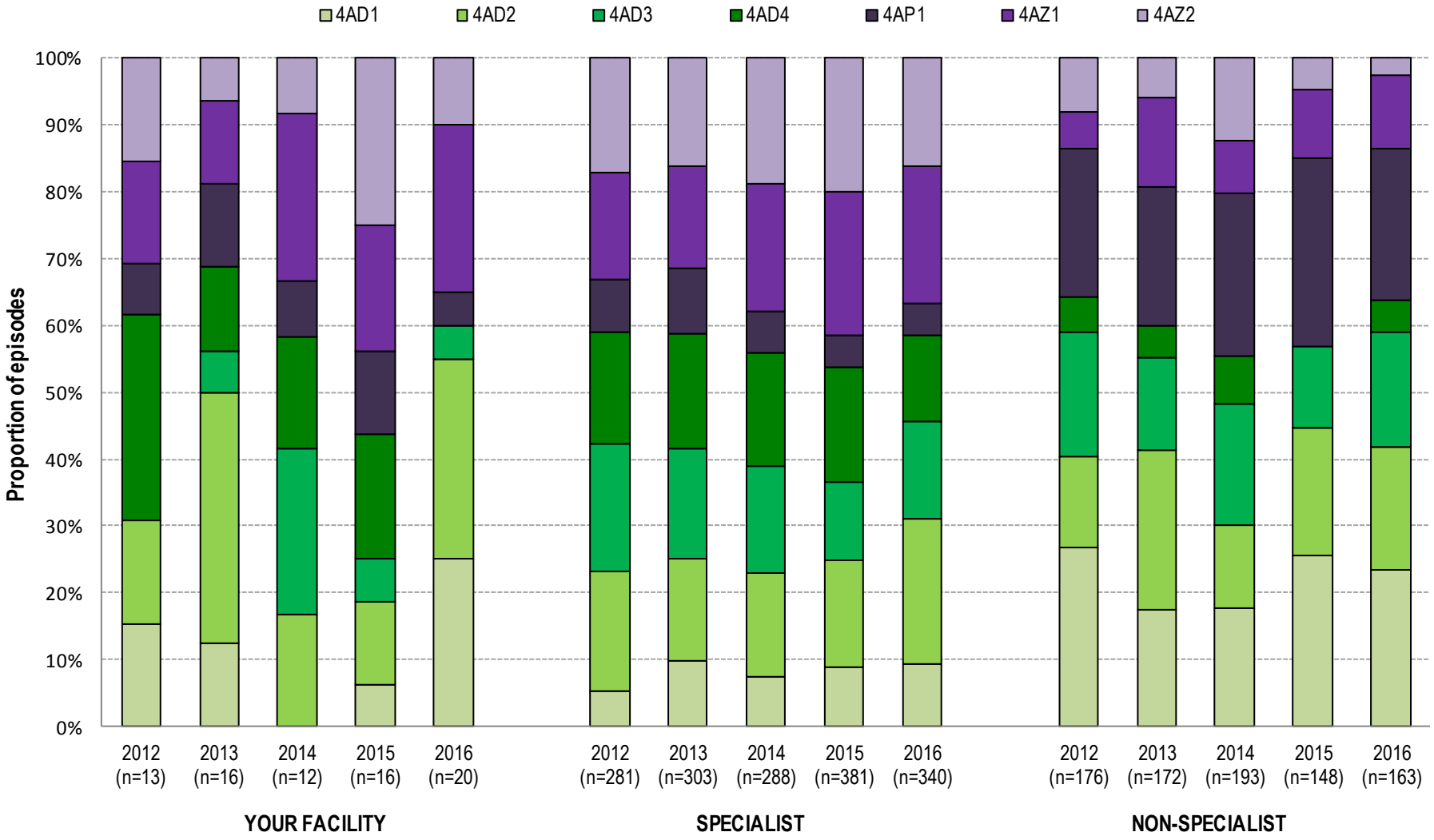
Traumatic and non-traumatic episodes by impairment by AN-SNAP class

Traumatic	YOUR FACILITY							TOTAL	SPECIALIST	NON-SPECIALIST
Impairment	4AD1	4AD2	4AD3	4AD4	4AP1	4AZ1	4AZ2			
4.211 Para-Inc	2	3	0	0	0	0	0	**5**	**78**	**25**
4.212 Para-Comp	0	1	0	0	0	0	0	**1**	**67**	**16**
4.2211 Quad-Inc C1-4	2	0	0	0	0	2	0	**4**	**72**	**9**
4.2212 Quad-Inc C5-8	1	1	1	0	0	0	0	**3**	**52**	**13**
4.2221 Quad-Comp C1-4	0	0	0	0	0	3	1	**4**	**23**	**3**
4.2222 Quad-Comp C5-8	0	0	0	0	0	0	1	**1**	**13**	**4**
4.23 Other TSCI	0	1	0	0	0	0	0	**1**	**8**	**52**
14.1 MMT: brain+spine	0	0	0	0	0	0	0	**0**	**15**	**24**
14.3 MMT: spine+other	0	0	0	0	1	0	0	**1**	**12**	**17**
Total	**5**	**6**	**1**	**0**	**1**	**5**	**2**	**20**	**340**	**163**
SPECIALIST	**32**	**74**	**49**	**44**	**16**	**70**	**55**	**340**		
NON-SPECIALIST	**38**	**30**	**28**	**8**	**37**	**18**	**4**	**163**		

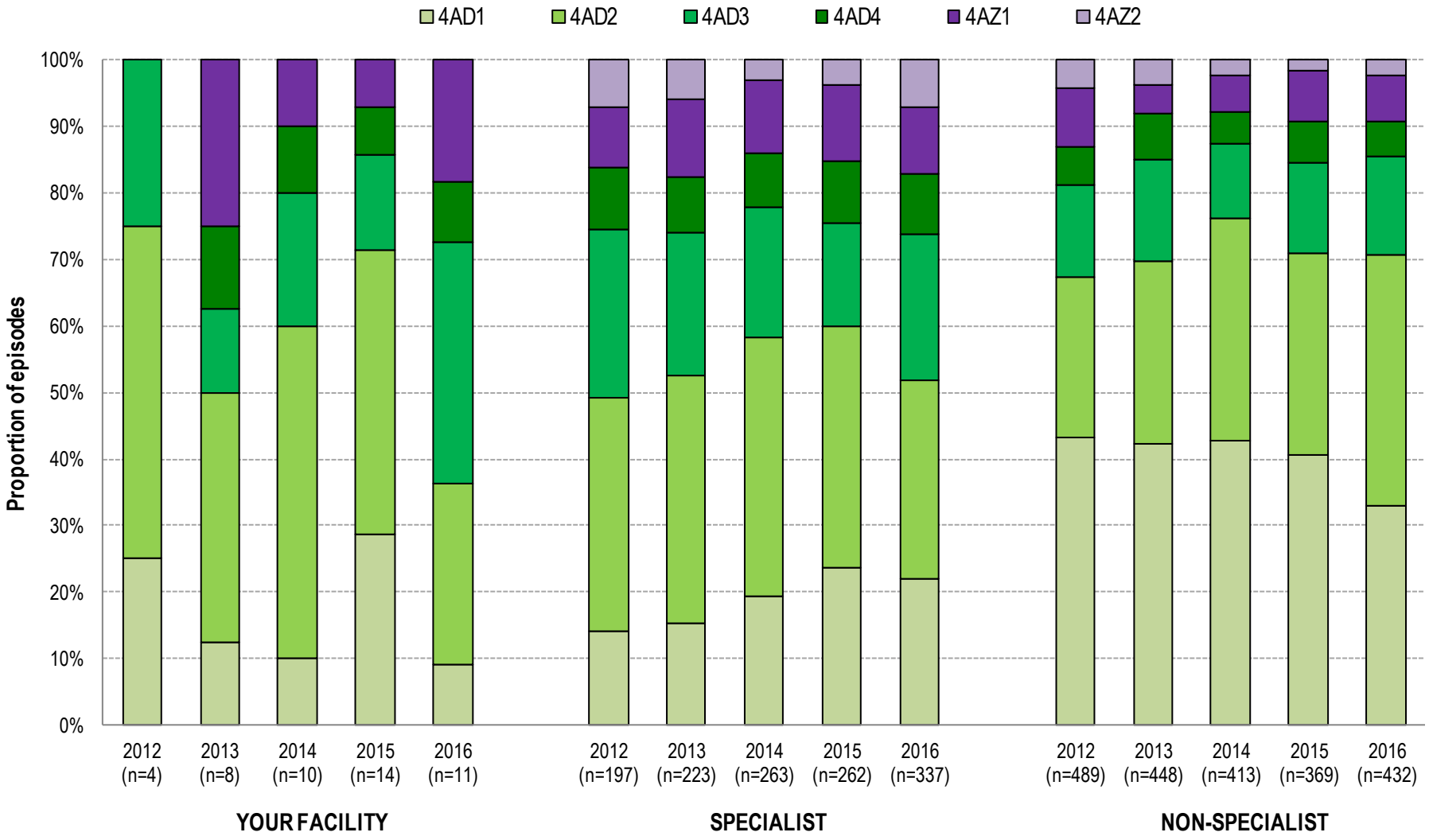
Non-traumatic	YOUR FACILITY						TOTAL	SPECIALIST	NON-SPECIALIST
Impairment	4AD1	4AD2	4AD3	4AD4	4AZ1	4AZ2			
4.111 Para-Inc	1	0	3	0	0	0	**4**	**174**	**156**
4.112 Para-Comp	0	2	0	0	0	1	**3**	**40**	**30**
4.1211 Quad-Inc C1-4	0	0	1	0	0	0	**1**	**48**	**26**
4.1212 Quad-Inc C5-8	0	1	0	1	0	0	**2**	**26**	**22**
4.1221 Quad-Comp C1-4	0	0	0	0	0	0	**0**	**7**	**3**
4.1222 Quad-Comp C5-8	0	0	0	0	0	1	**1**	**3**	**3**
4.13 Other NTSCI	0	0	0	0	0	0	**0**	**39**	**192**
Total	**1**	**3**	**4**	**1**	**0**	**2**	**11**	**337**	**432**
SPECIALIST	**74**	**101**	**74**	**30**	**34**	**24**	**337**		
NON-SPECIALIST	**142**	**164**	**63**	**23**	**30**	**10**	**432**		

Note: 0 episode(s) at YOUR FACILITY, 1 episode(s) at SPECIALIST facilities and 3 episode(s) at NON-SPECIALIST facilities had an AN-SNAP class of 499A.

Proportion of traumatic episodes by AN-SNAP class over time



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

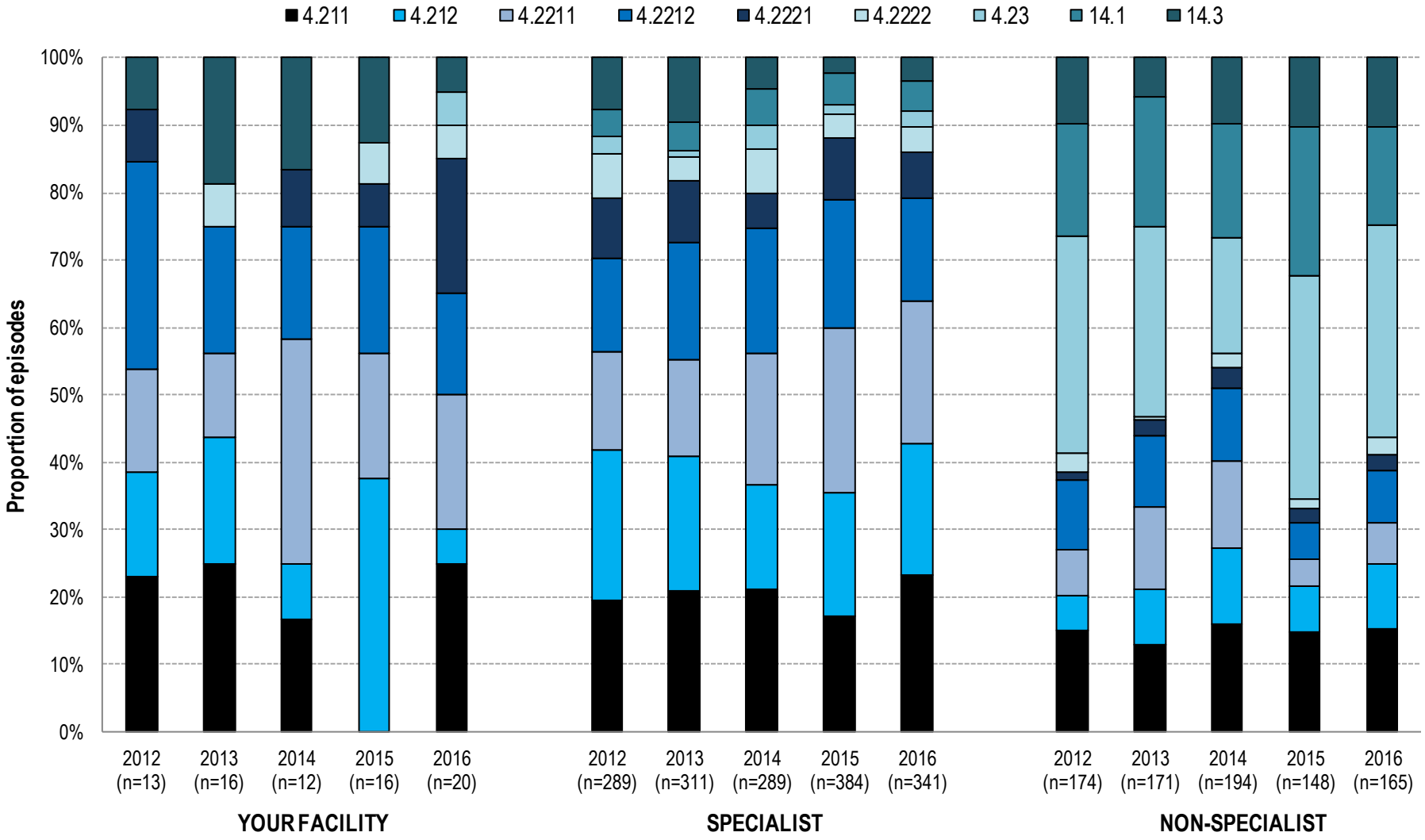


Traumatic and non-traumatic episodes by AN-SNAP class over time

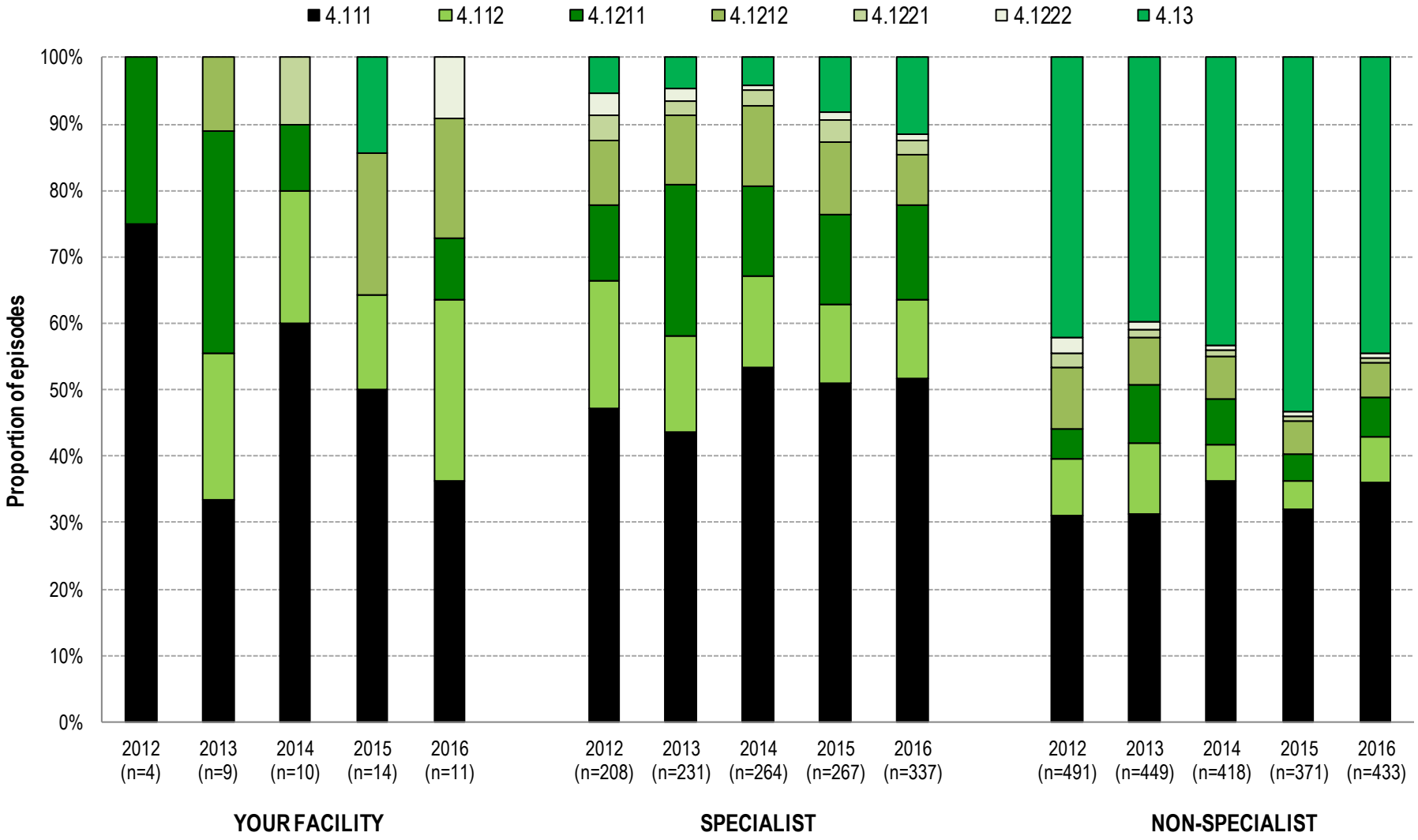
Traumatic	YOUR FACILITY					SPECIALIST					NON-SPECIALIST				
AN-SNAP class	**2012**	**2013**	**2014**	**2015**	**2016**	**2012**	**2013**	**2014**	**2015**	**2016**	**2012**	**2013**	**2014**	**2015**	**2016**
4AD1 (SCI, age ≥ 50, weighted FIM motor 42-91)	2	2	0	1	5	15	30	21	34	32	47	30	34	38	38
4AD2 (SCI, age ≥ 50, weighted FIM motor 19-41)	2	6	2	2	6	50	46	45	61	74	24	41	24	28	30
4AD3 (SCI, age ≤ 49, weighted FIM motor 34-91)	0	1	3	1	1	54	50	46	44	49	33	24	35	18	28
4AD4 (SCI, age ≤ 49, weighted FIM motor 19-33)	4	2	2	3	0	47	52	49	66	44	9	8	14	0	8
4AP1 (MMT, weighted FIM motor 19-91)	1	2	1	2	1	22	30	18	18	16	39	36	47	42	37
4AZ1 (SCI or MMT, age ≥ 49, weighted FIM motor 13-18)	2	2	3	3	5	45	46	55	82	70	10	23	15	15	18
4AZ2 (SCI or MMT, age ≤ 48, weighted FIM motor 13-18)	2	1	1	4	2	48	49	54	76	55	14	10	24	7	4
All Spinal AN-SNAP classes	**13**	**16**	**12**	**16**	**20**	**281**	**303**	**288**	**381**	**340**	**176**	**172**	**193**	**148**	**163**

Non-traumatic	YOUR FACILITY					SPECIALIST					NON-SPECIALIST				
AN-SNAP class	**2012**	**2013**	**2014**	**2015**	**2016**	**2012**	**2013**	**2014**	**2015**	**2016**	**2012**	**2013**	**2014**	**2015**	**2016**
4AD1 (SCI, age ≥ 50, weighted FIM motor 42-91)	1	1	1	4	1	28	34	51	62	74	212	189	177	150	142
4AD2 (SCI, age ≥ 50, weighted FIM motor 19-41)	2	3	5	6	3	69	83	102	95	101	118	123	138	112	164
4AD3 (SCI, age ≤ 49, weighted FIM motor 34-91)	1	1	2	2	4	50	48	52	41	74	67	69	46	50	63
4AD4 (SCI, age ≤ 49, weighted FIM motor 19-33)	0	1	1	1	1	18	19	21	24	30	28	31	20	23	23
4AZ1 (SCI or MMT, age ≥ 49, weighted FIM motor 13-18)	0	2	1	1	2	18	26	29	30	34	44	19	23	28	30
4AZ2 (SCI or MMT, age ≤ 48, weighted FIM motor 13-18)	0	0	0	0	0	14	13	8	10	24	20	17	9	6	10
All Spinal AN-SNAP classes	**4**	**8**	**10**	**14**	**11**	**197**	**223**	**263**	**262**	**337**	**489**	**448**	**413**	**369**	**432**

Proportion of traumatic episodes by impairment over time



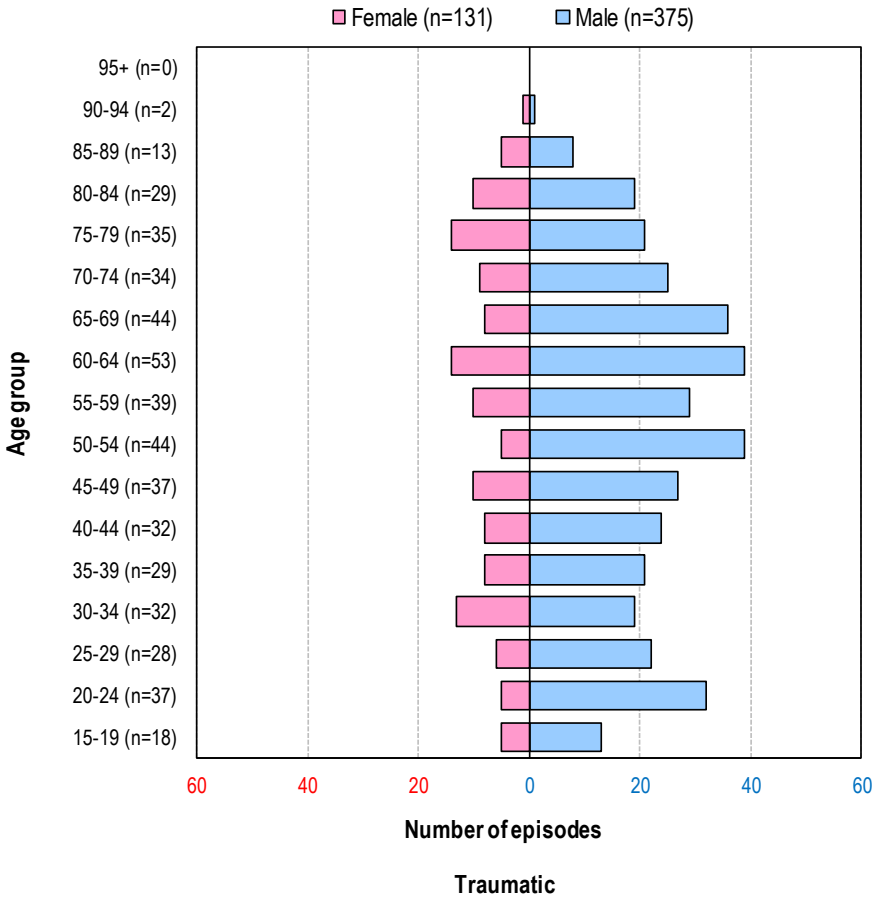
Proportion of non-traumatic episodes by impairment over time

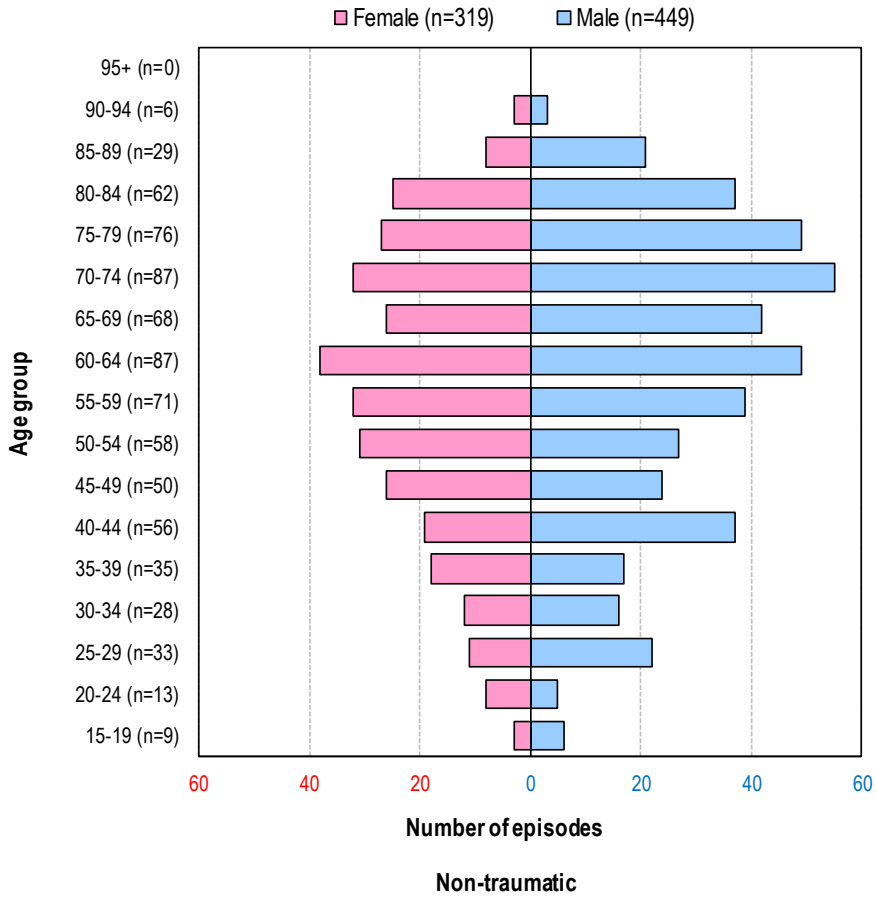


Traumatic and non-traumatic episodes by impairment over time

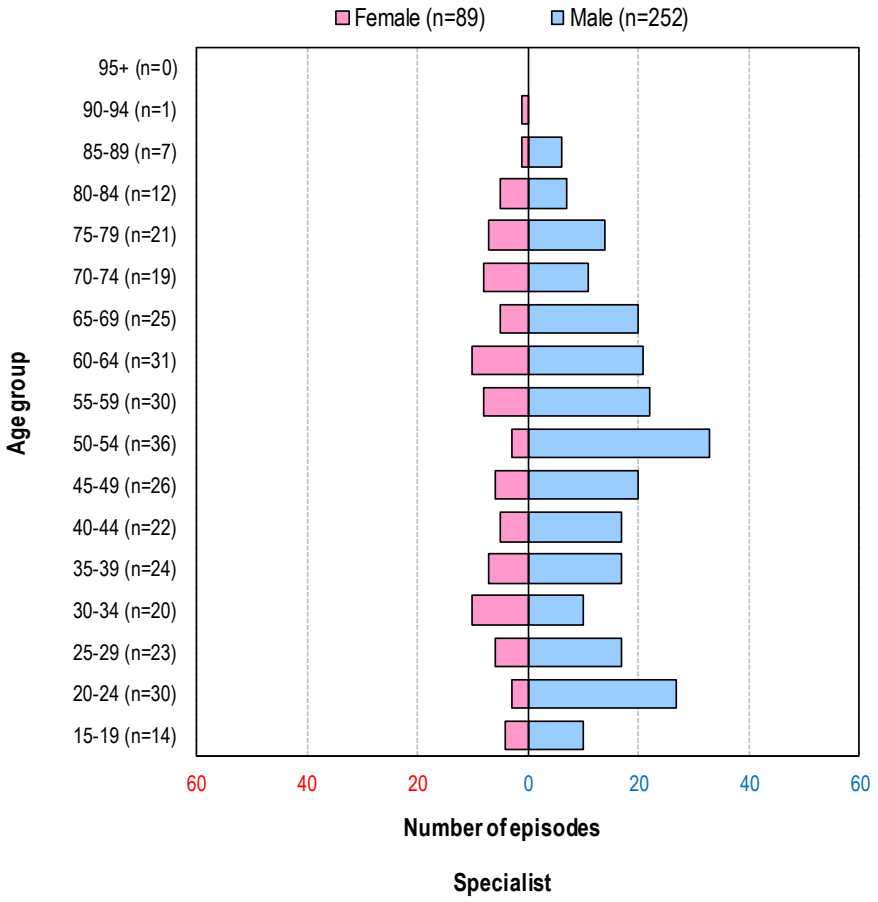
	YOUR FACILITY					SPECIALIST					NON-SPECIALIST				
Impairment	**2012**	**2013**	**2014**	**2015**	**2016**	**2012**	**2013**	**2014**	**2015**	**2016**	**2012**	**2013**	**2014**	**2015**	**2016**
Traumatic impairments															
4.211 Para-Inc	3	4	2	0	5	56	65	61	66	79	26	22	31	22	25
4.212 Para-Comp	2	3	1	6	1	65	62	45	70	67	9	14	22	10	16
4.2211 Quad-Inc C1-4	2	2	4	3	4	42	45	56	94	72	12	21	25	6	10
4.2212 Quad-Inc C5-8	4	3	2	3	3	40	54	54	73	52	18	18	21	8	13
4.2221 Quad-Comp C1-4	1	0	1	1	4	26	28	15	35	23	2	4	6	3	4
4.2222 Quad-Comp C5-8	0	1	0	1	1	19	11	19	14	13	5	1	4	2	4
4.23 Other TSCI	0	0	0	0	1	7	3	10	5	8	56	48	33	49	52
14.1 MMT: brain+spine	0	0	0	0	0	12	13	16	18	15	29	33	33	33	24
14.3 MMT: spine+other	1	3	2	2	1	22	30	13	9	12	17	10	19	15	17
Total TSCI	**13**	**16**	**12**	**16**	**20**	**289**	**311**	**289**	**384**	**341**	**174**	**171**	**194**	**148**	**165**
Non-traumatic impairments															
4.111 Para-Inc	3	3	6	7	4	98	101	141	136	174	152	141	152	119	156
4.112 Para-Comp	0	2	2	2	3	40	33	36	32	40	42	48	22	16	30
4.1211 Quad-Inc C1-4	1	3	1	0	1	24	53	36	36	48	23	39	29	15	26
4.1212 Quad-Inc C5-8	0	1	0	3	2	20	24	32	29	26	45	32	27	18	22
4.1221 Quad-Comp C1-4	0	0	1	0	0	8	5	6	9	7	11	5	4	3	3
4.1222 Quad-Comp C5-8	0	0	0	0	1	7	4	2	3	3	11	6	3	2	3
4.13 Other NTSCI	0	0	0	2	0	11	11	11	22	39	207	178	181	198	193
Total NTSCI	**4**	**9**	**10**	**14**	**11**	**208**	**231**	**264**	**267**	**337**	**491**	**449**	**418**	**371**	**433**
TOTAL SCI	**17**	**25**	**22**	**30**	**31**	**497**	**542**	**553**	**651**	**678**	**665**	**620**	**612**	**519**	**598**

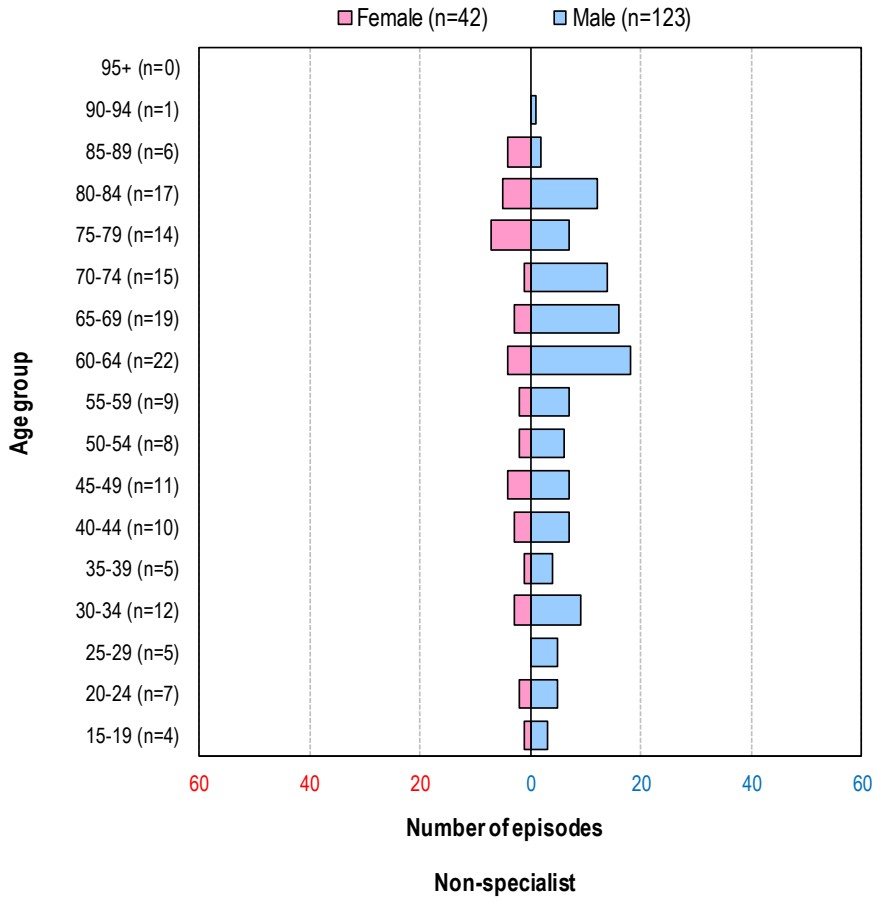
Number of traumatic and non-traumatic episodes by age group by sex



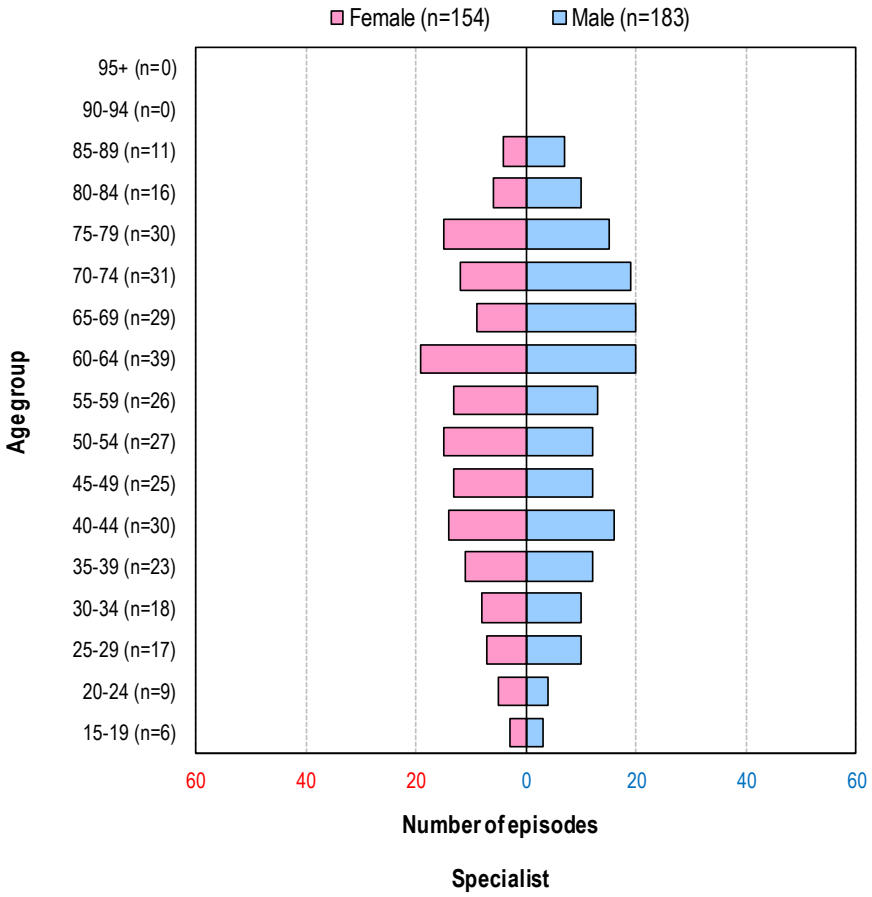


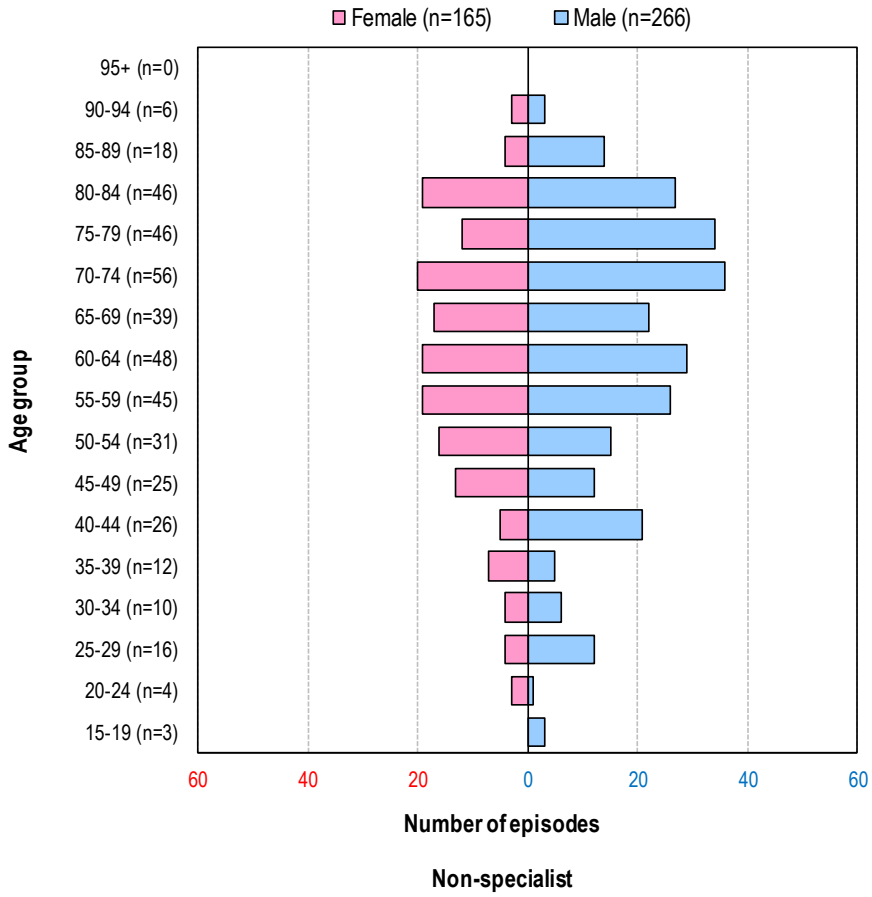
Number of traumatic specialist and non specialist episodes by age group by sex



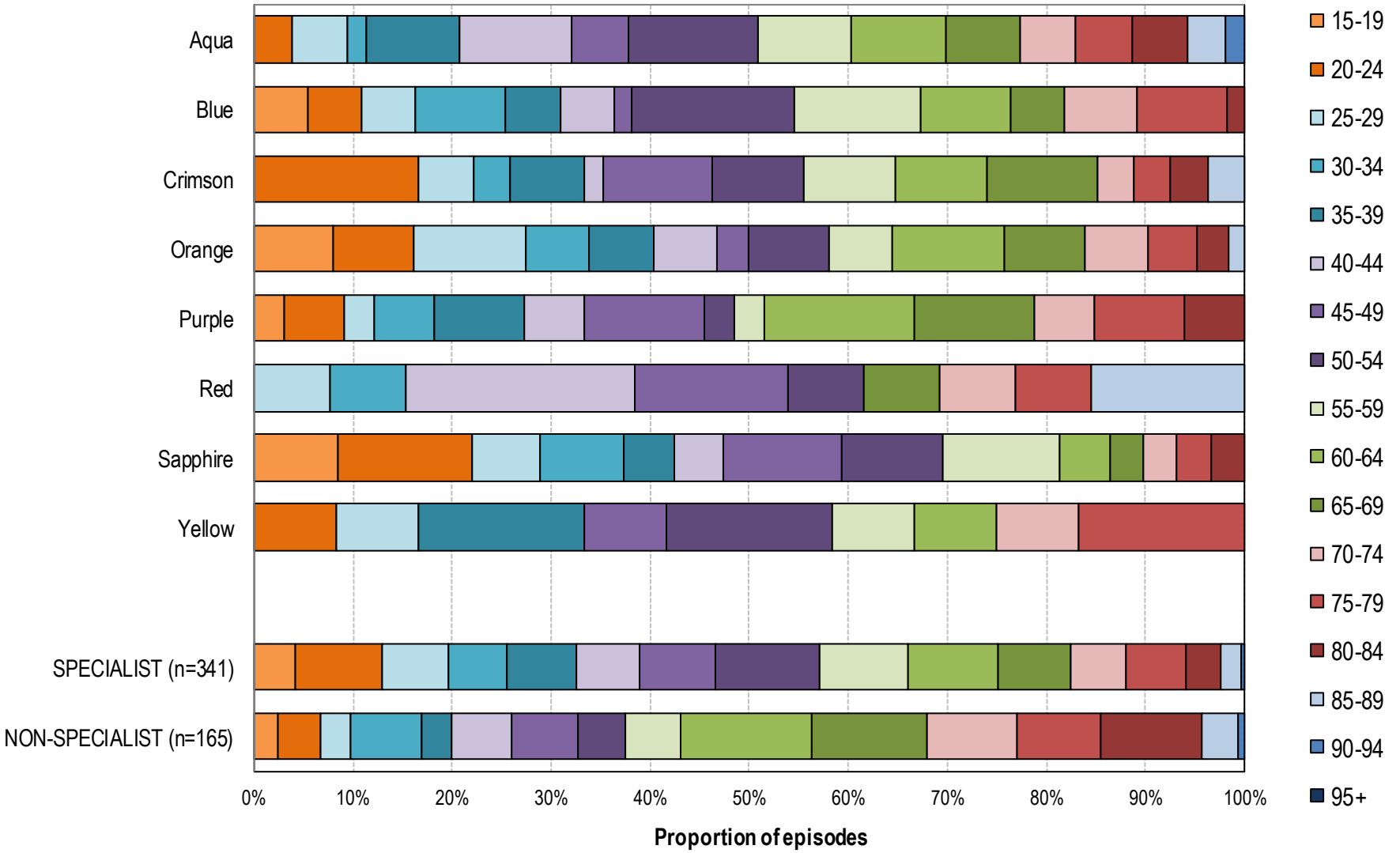


Number of non-traumatic specialist and non specialist episodes by age group by sex

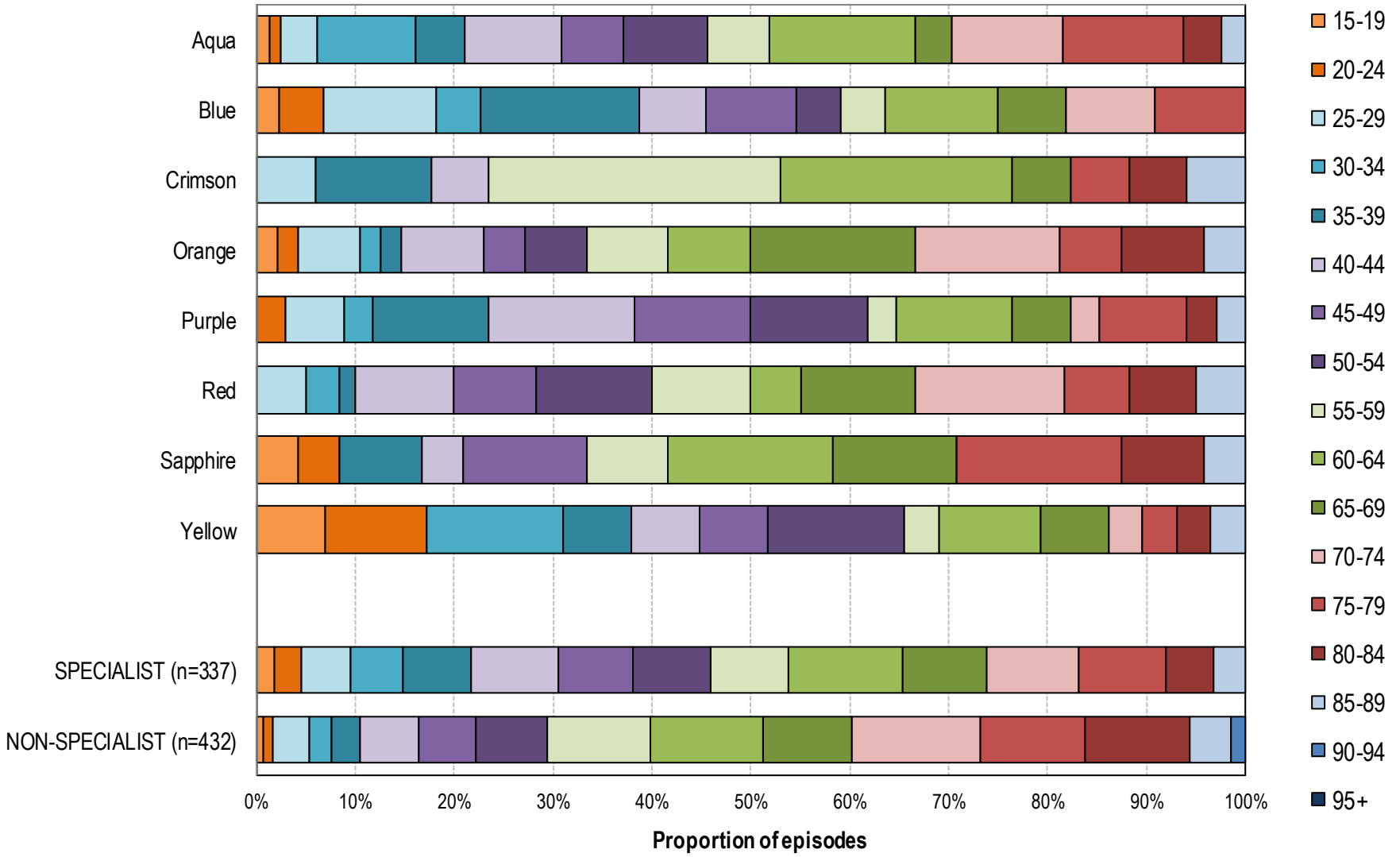




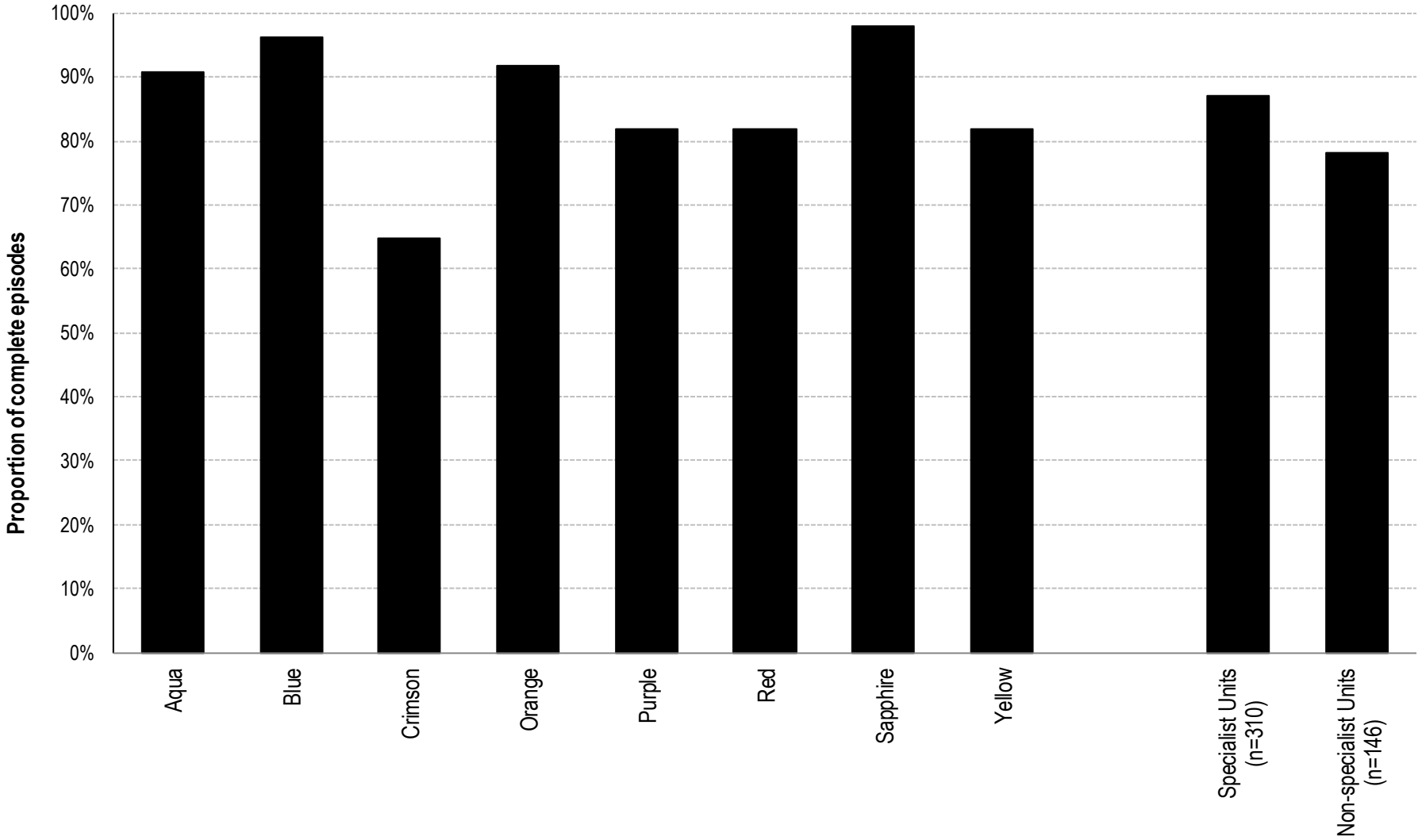
Number of traumatic episodes by facility by age group



Number of non-traumatic episodes by facility by age group

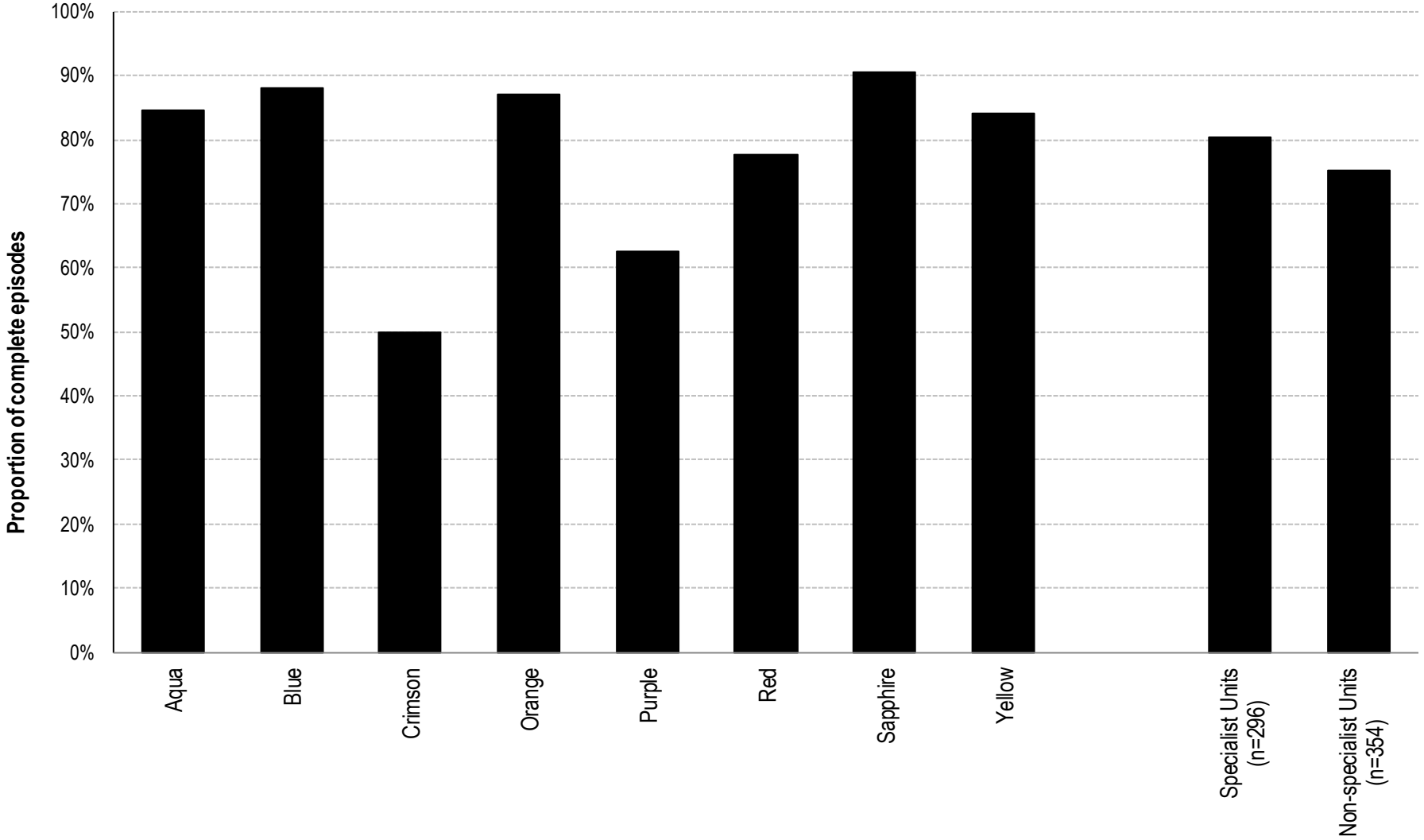


Proportion of complete* first admission traumatic episodes by facility



*See glossary for definition of a 'complete' episode

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



*See glossary for definition of a 'complete' episode

Traumatic and non-traumatic complete first admission episodes by AN-SNAP class and impairment

	YOUR FACILITY			SPECIALIST			NON-SPECIALIST		
AN-SNAP class	**All episodes**	**Completed episodes**	**%Complete**	**All episodes**	**Completed episodes**	**%Complete**	**All episodes**	**Completed episodes**	**%Complete**
4AD1 (SCI, age ≥ 50, weighted FIM motor 42-91)	6	6	100.0%	89	83	93.3%	156	135	86.5%
4AD2 (SCI, age ≥ 50, weighted FIM motor 19-41)	9	8	88.9%	156	130	83.3%	156	106	67.9%
4AD3 (SCI, age ≤ 49, weighted FIM motor 34-91)	5	5	100.0%	109	97	89.0%	73	65	89.0%
4AD4 (SCI, age ≤ 49, weighted FIM motor 19-33)	0	0	—	68	57	83.8%	27	15	55.6%
4AP1 (MMT, weighted FIM motor 19-91)	1	1	100.0%	13	11	84.6%	34	30	88.2%
4AZ1 (SCI or MMT, age ≥ 49, weighted FIM motor 13-18)	7	4	57.1%	101	76	75.2%	41	24	58.5%
4AZ2 (SCI or MMT, age ≤ 48, weighted FIM motor 13-18)	2	2	100.0%	69	53	76.8%	11	4	36.4%
All Spinal AN-SNAP classes	**30**	**26**	**86.7%**	**605**	**507**	**83.8%**	**498**	**379**	**76.1%**

**First Admission Only (excludes AN-SNAP class 499A)*

	YOUR FACILITY			SPECIALIST			NON-SPECIALIST		
Impairment	**All episodes**	**Completed episodes**	**%Complete**	**All episodes**	**Completed episodes**	**%Complete**	**All episodes**	**Completed episodes**	**%Complete**
Traumatic impairments									
4.211 Para-Inc	5	5	100.0%	76	69	90.8%	21	18	85.7%
4.212 Para-Comp	1	1	100.0%	57	50	87.7%	15	10	66.7%
4.2211 Quad-Inc C1-4	4	4	100.0%	69	56	81.2%	7	5	71.4%
4.2212 Quad-Inc C5-8	3	3	100.0%	44	39	88.6%	9	7	77.8%
4.2221 Quad-Comp C1-4	4	3	75.0%	21	17	81.0%	4	1	25.0%
4.2222 Quad-Comp C5-8	1	1	100.0%	11	10	90.9%	3	2	66.7%
4.23 Other TSCI	1	1	100.0%	8	7	87.5%	50	41	82.0%
14.1 MMT: brain+spine	0	0	—	14	14	100.0%	21	18	85.7%
14.3 MMT: spine+other	1	1	100.0%	10	8	80.0%	16	12	75.0%
Total TSCI	**20**	**19**	**95.0%**	**310**	**270**	**87.1%**	**146**	**114**	**78.1%**
Non-traumatic impairments									
4.111 Para-Inc	4	4	100.0%	156	128	82.1%	120	79	65.8%
4.112 Para-Comp	3	1	33.3%	36	25	69.4%	23	12	52.2%
4.1211 Quad-Inc C1-4	1	1	100.0%	41	36	87.8%	20	14	70.0%
4.1212 Quad-Inc C5-8	1	1	100.0%	21	14	66.7%	20	16	80.0%
4.1221 Quad-Comp C1-4	0	0	—	7	4	57.1%	3	3	100.0%
4.1222 Quad-Comp C5-8	1	0	0.0%	3	1	33.3%	2	1	50.0%
4.13 Other NTSCI	0	0	—	32	30	93.8%	166	141	84.9%
Total NTSCI	**10**	**7**	**70.0%**	**296**	**238**	**80.4%**	**354**	**266**	**75.1%**
TOTAL SCI	**30**	**26**	**86.7%**	**606**	**508**	**83.8%**	**500**	**380**	**76.0%**

**First Admission Only*

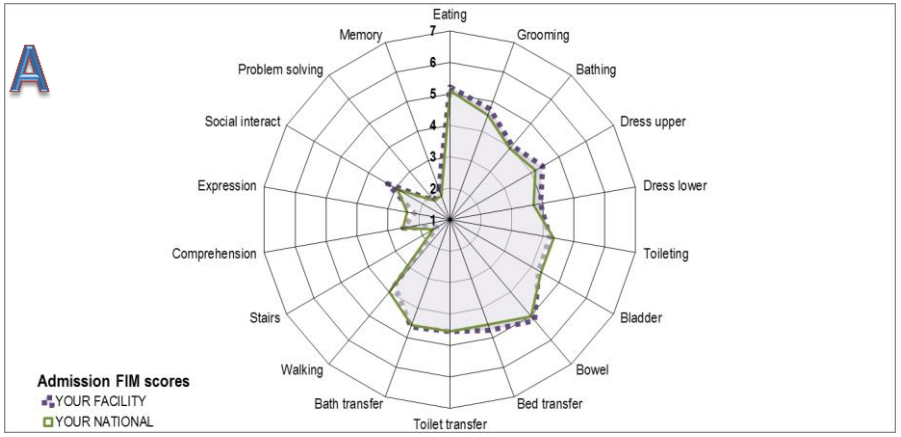
Summary of your incomplete episodes

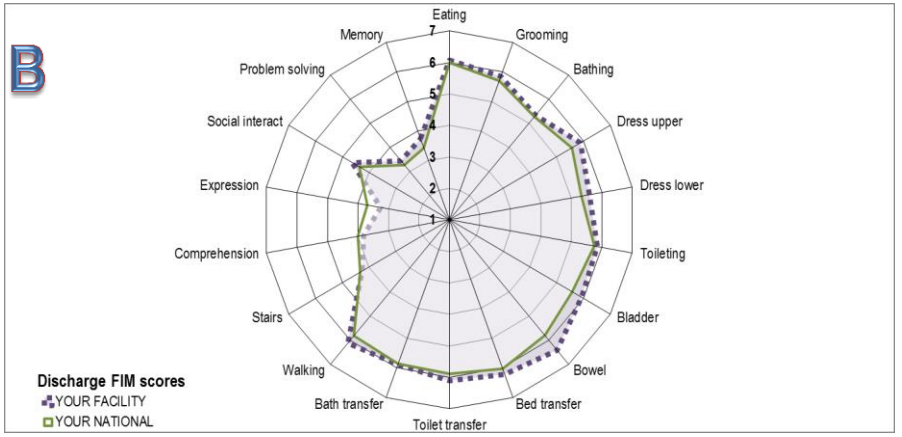
	YOUR FACILITY	SPECIALIST	NON-SPECIALIST	ALL SPINE
Total reporting episodes	31	678	598	1,276
Incomplete episodes	4	108	144	252
% incomplete	12.9%	15.9%	24.1%	19.7%
Reason for incomplete:				
Discharged home with end FIM=18	0	2	0	2
Discharged home with no end FIM	0	1	1	2
Discharged to another hospital	3	57	83	140
Discharged back to acute	1	38	42	80
Discharged at own risk	0	2	10	12
Change of care type (LOS<1 week)	0	0	0	0
Died	0	3	2	5
Other/Unknown Discharge	0	5	6	11

	YOUR FACILITY	
	Incomplete Episodes	Complete episodes
Impairment Code:		
4.111 Para-Inc	0 (0.0%)	4 (14.8%)
4.112 Para-Comp	2 (50.0%)	1 (3.7%)
4.1211 Quad-Inc C1-4	0 (0.0%)	1 (3.7%)
4.1212 Quad-Inc C5-8	0 (0.0%)	2 (7.4%)
4.1221 Quad-Comp C1-4	0 (0.0%)	0 (0.0%)
4.1222 Quad-Comp C5-8	1 (25.0%)	0 (0.0%)
4.13 Other NTSCI	0 (0.0%)	0 (0.0%)
4.211 Para-Inc	0 (0.0%)	5 (18.5%)
4.212 Para-Comp	0 (0.0%)	1 (3.7%)
4.2211 Quad-Inc C1-4	0 (0.0%)	4 (14.8%)
4.2212 Quad-Inc C5-8	0 (0.0%)	3 (11.1%)
4.2221 Quad-Comp C1-4	1 (25.0%)	3 (11.1%)
4.2222 Quad-Comp C5-8	0 (0.0%)	1 (3.7%)
4.23 Other TSCI	0 (0.0%)	1 (3.7%)
14.1 MMT: brain+spine	0 (0.0%)	0 (0.0%)
14.3 MMT: spine+other	0 (0.0%)	1 (3.7%)
AN-SNAP Class:		
4AD1 (SCI, age ≥ 50, weighted FIM motor 42-91)	0 (0.0%)	6 (22.2%)
4AD2 (SCI, age ≥ 50, weighted FIM motor 19-41)	1 (25.0%)	8 (29.6%)
4AD3 (SCI, age ≤ 49, weighted FIM motor 34-91)	0 (0.0%)	5 (18.5%)
4AD4 (SCI, age ≤ 49, weighted FIM motor 19-33)	0 (0.0%)	1 (3.7%)
4AP1 (MMT, weighted FIM motor 19-91)	0 (0.0%)	1 (3.7%)
4AZ1 (SCI or MMT, age ≥ 49, weighted FIM motor 13-18)	3 (75.0%)	4 (14.8%)
4AZ2 (SCI or MMT, age ≤ 48, weighted FIM motor 13-18)	0 (0.0%)	2 (7.4%)

Review of FIM item scoring by AN-SNAP class

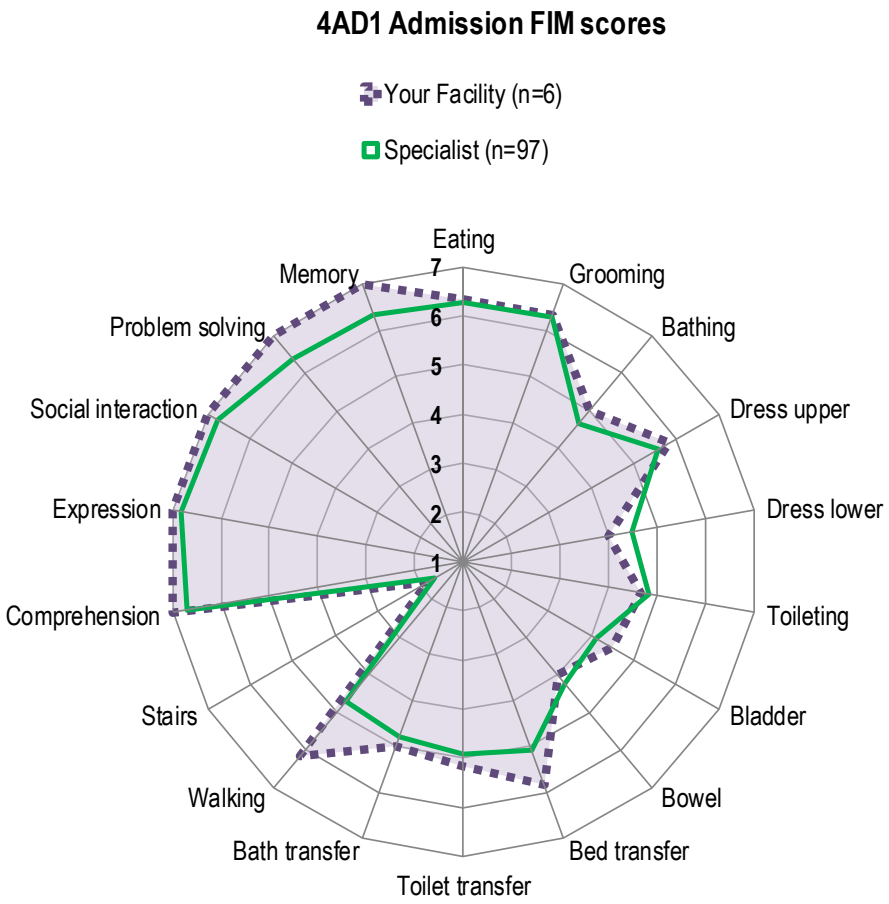
Interpreting your comparative FIM scoring charts

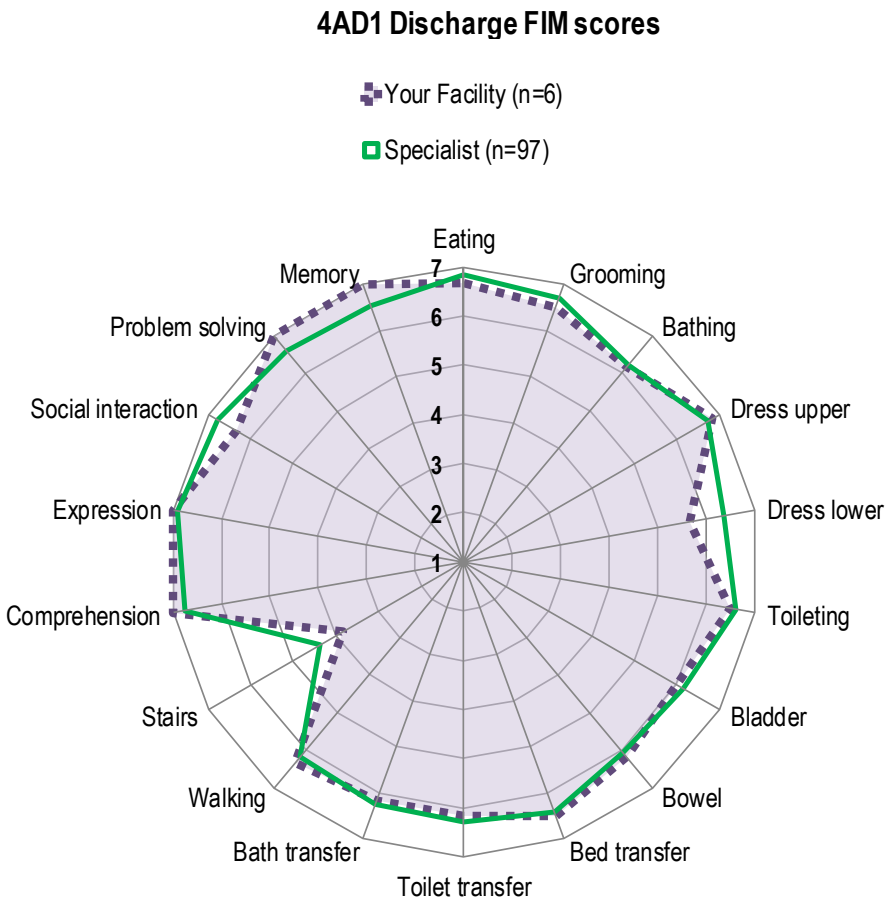




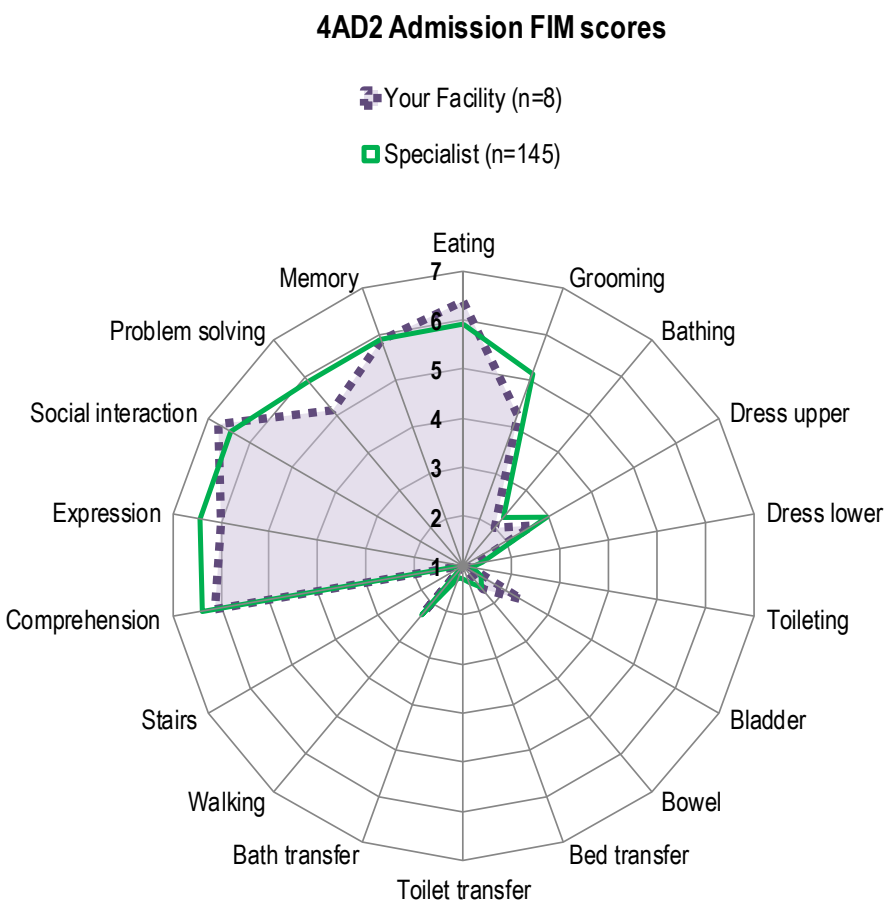
The FIM splat provides a graphic presentation of functional status in a radar chart. The 18 FIM items are arranged in order as 'spokes' of a wheel and the scoring levels from 1 (total dependence) to 7 (total independence) run from the centre outwards. The mean FIM item score for each item is indicated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

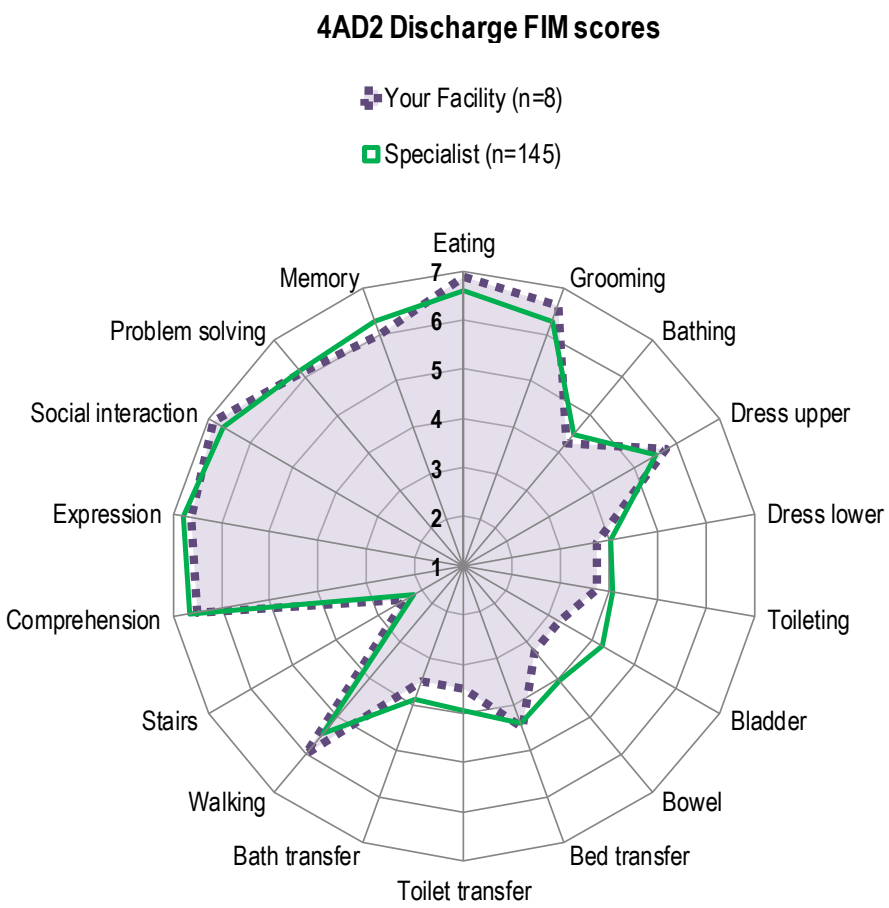
Comparative FIM item scoring
AN-SNAP class 4AD1



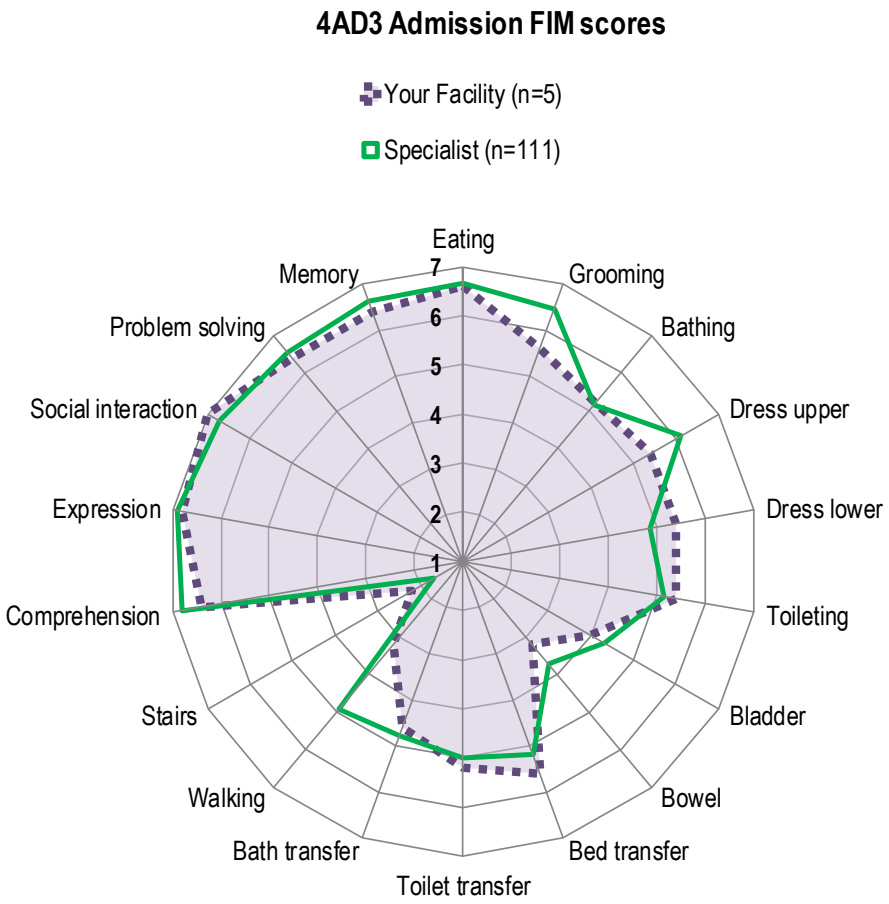


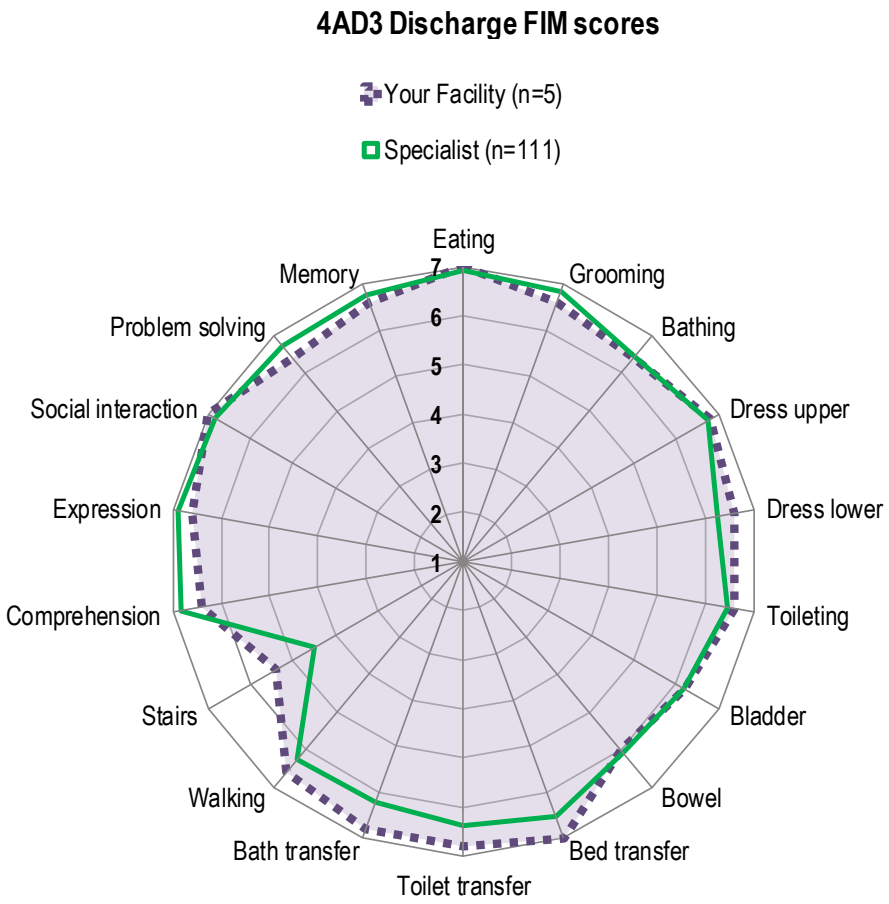
Comparative FIM item scoring
AN-SNAP class 4AD2



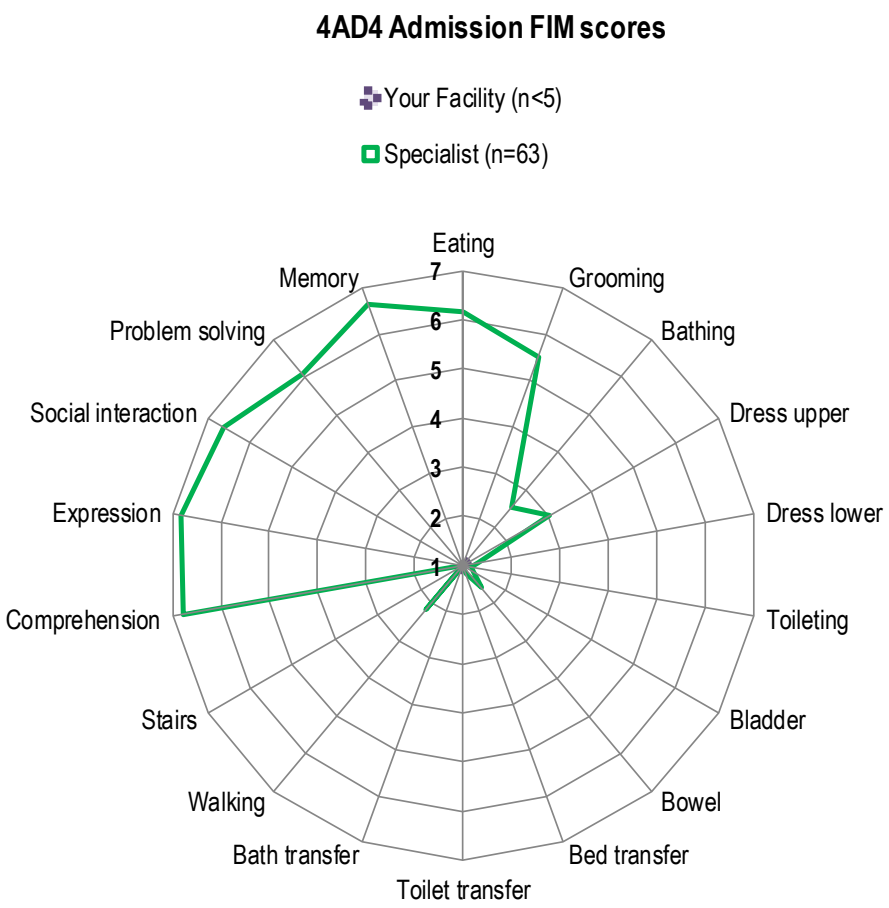


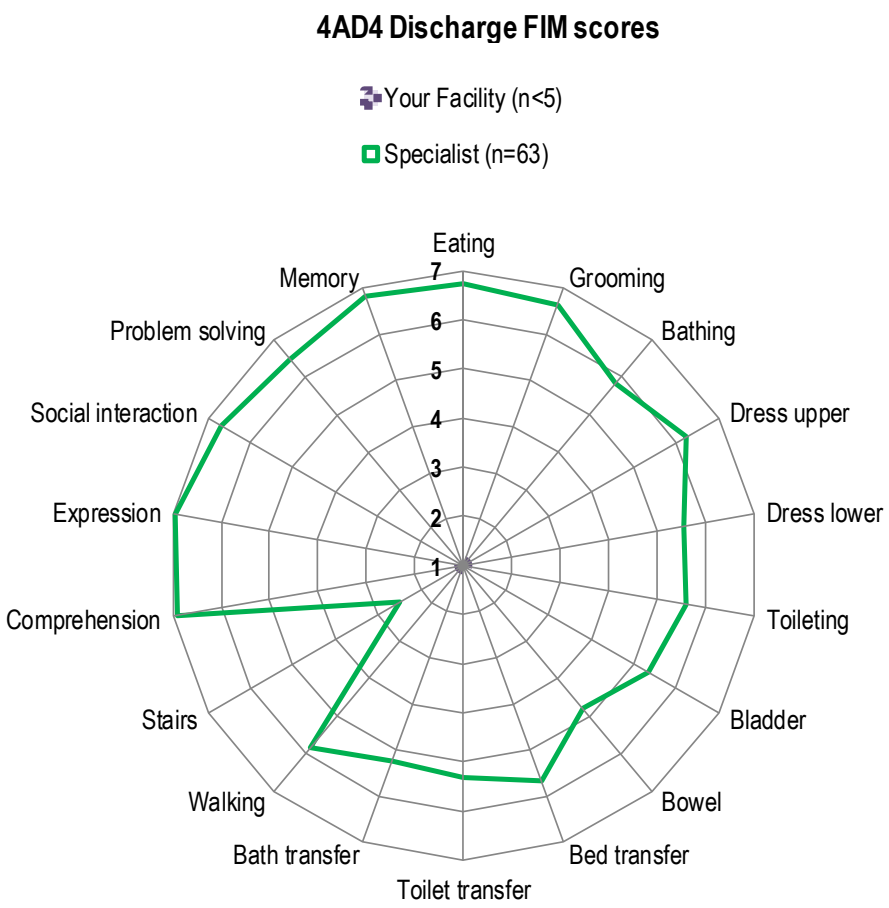
Comparative FIM item scoring
AN-SNAP class 4AD3





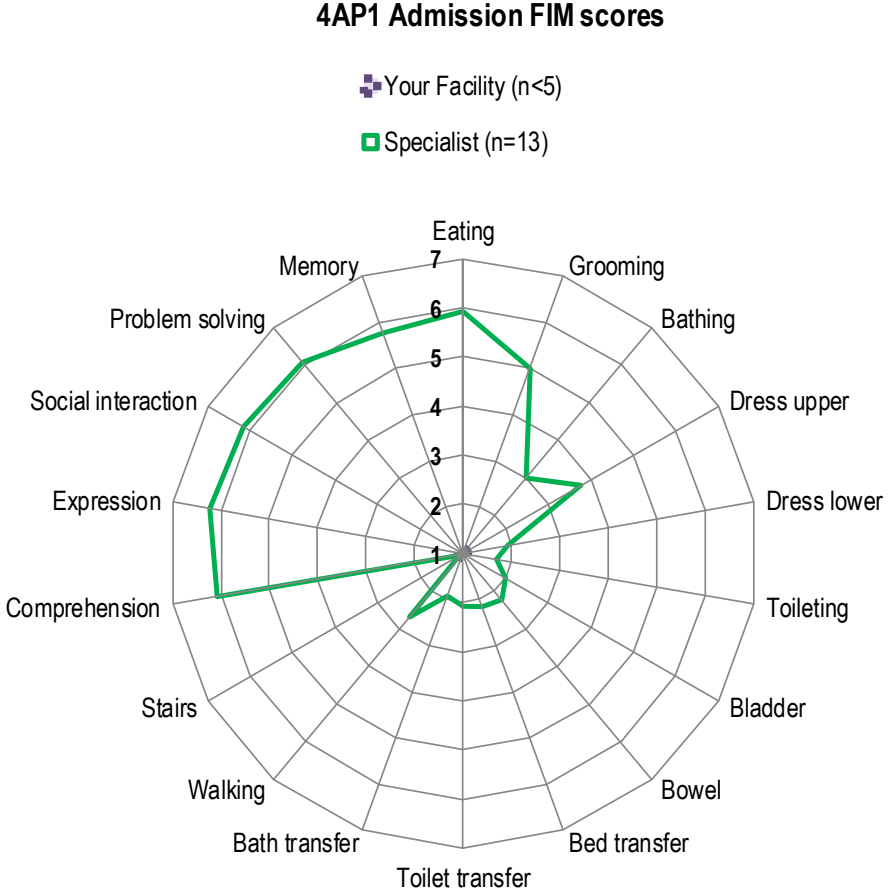
Comparative FIM item scoring
AN-SNAP class 4AD4



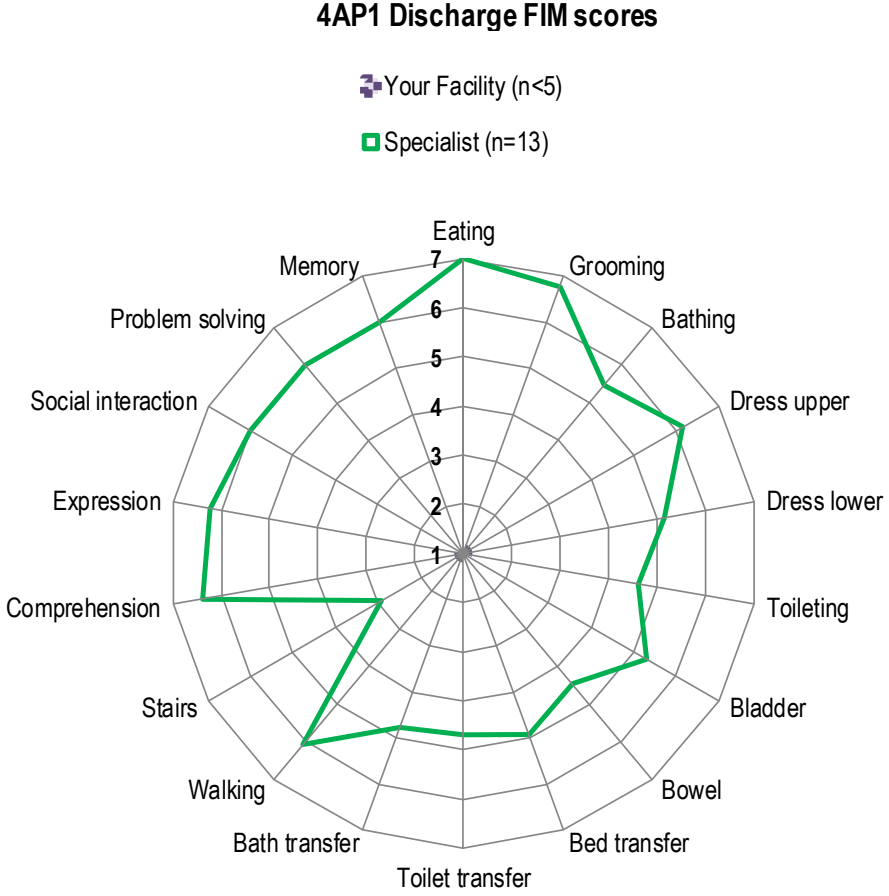


Comparative FIM item scoring
AN-SNAP class 4AP1

4AP1 Admission FIM scores

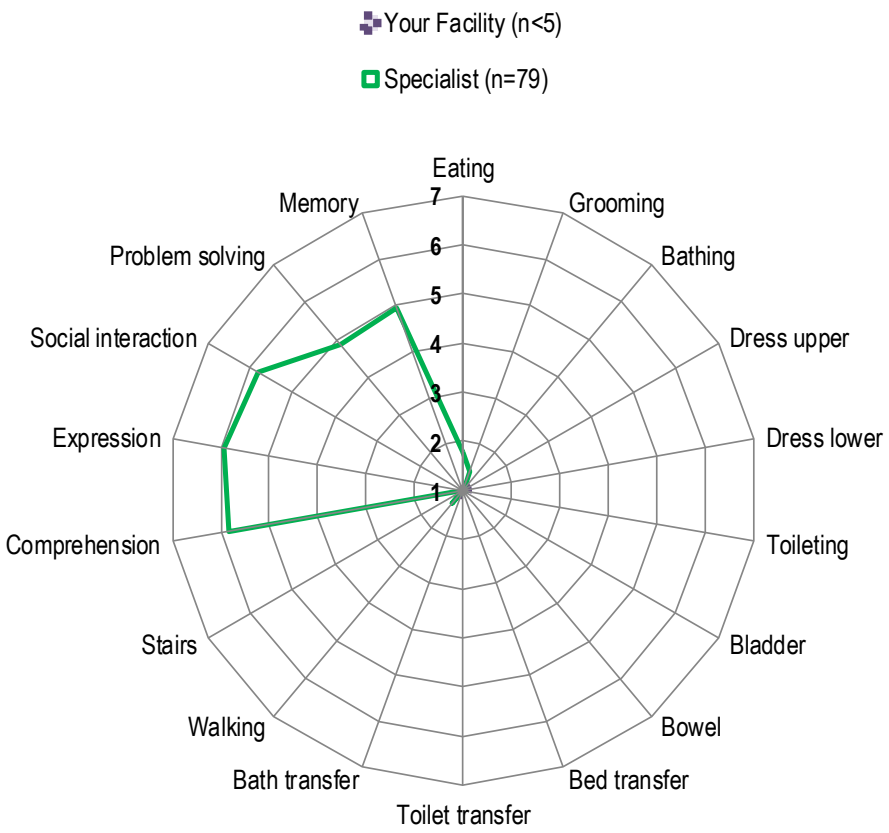


4AP1 Discharge FIM scores

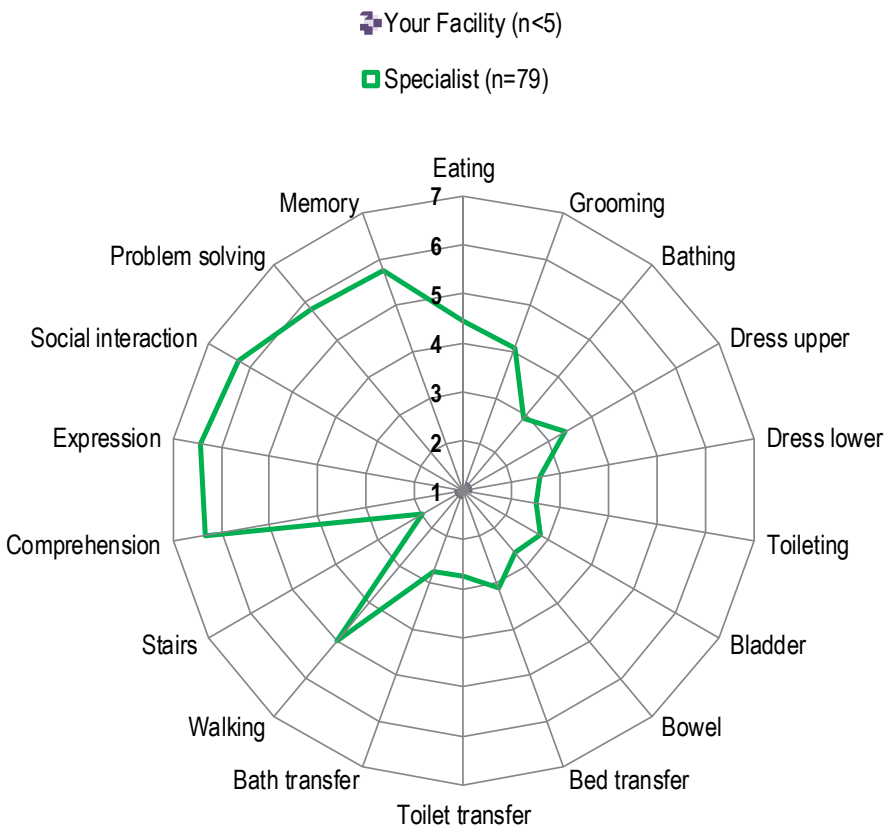


Comparative FIM item scoring
AN-SNAP class 4AZ1

4AZ1 Admission FIM scores

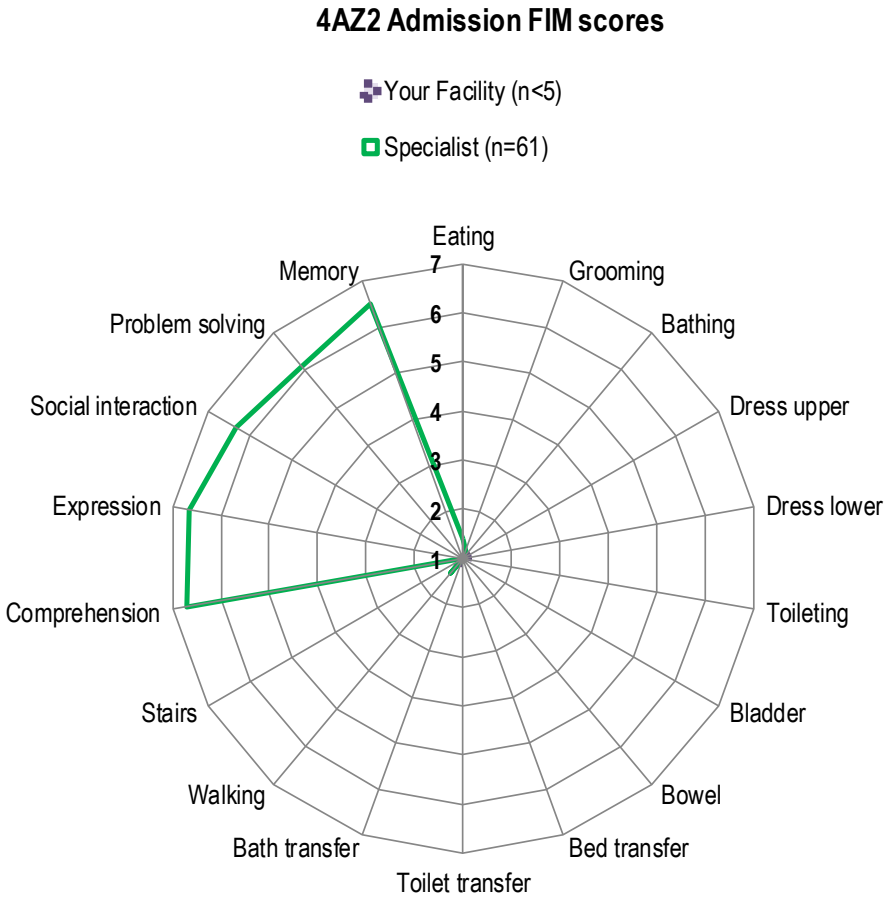


4AZ1 Discharge FIM scores

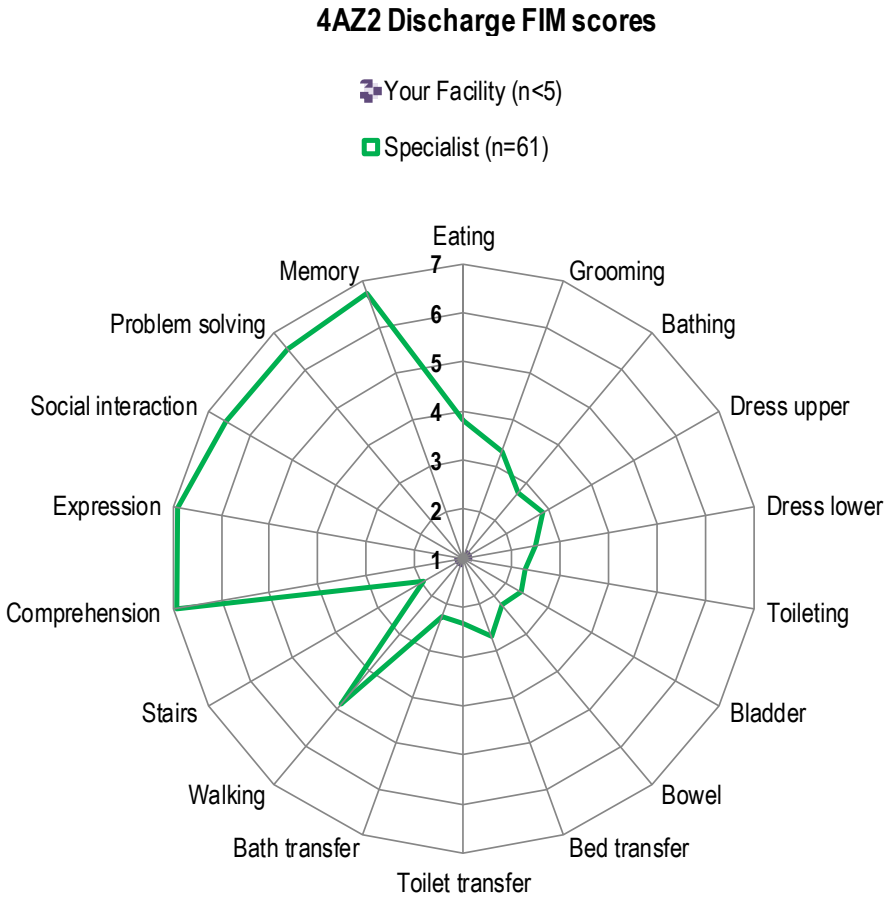


Comparative FIM item scoring
AN-SNAP class 4AZ2

4AZ2 Admission FIM scores

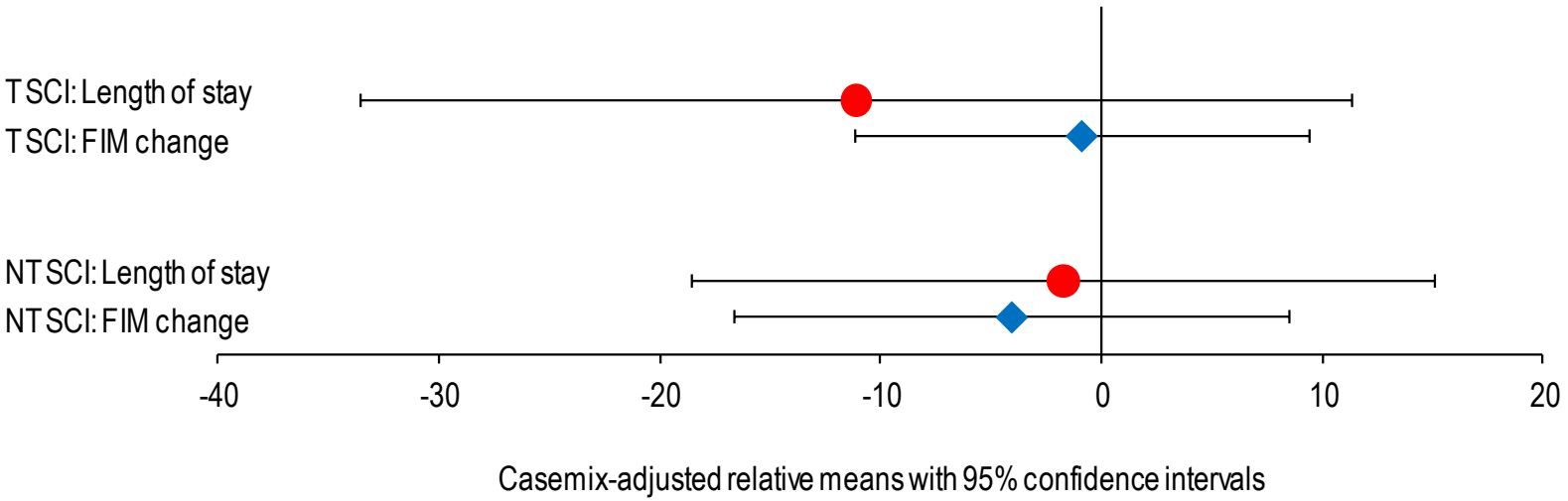


4AZ2 Discharge FIM scores



Outcomes Analysis

Casemix-adjusted* relative means

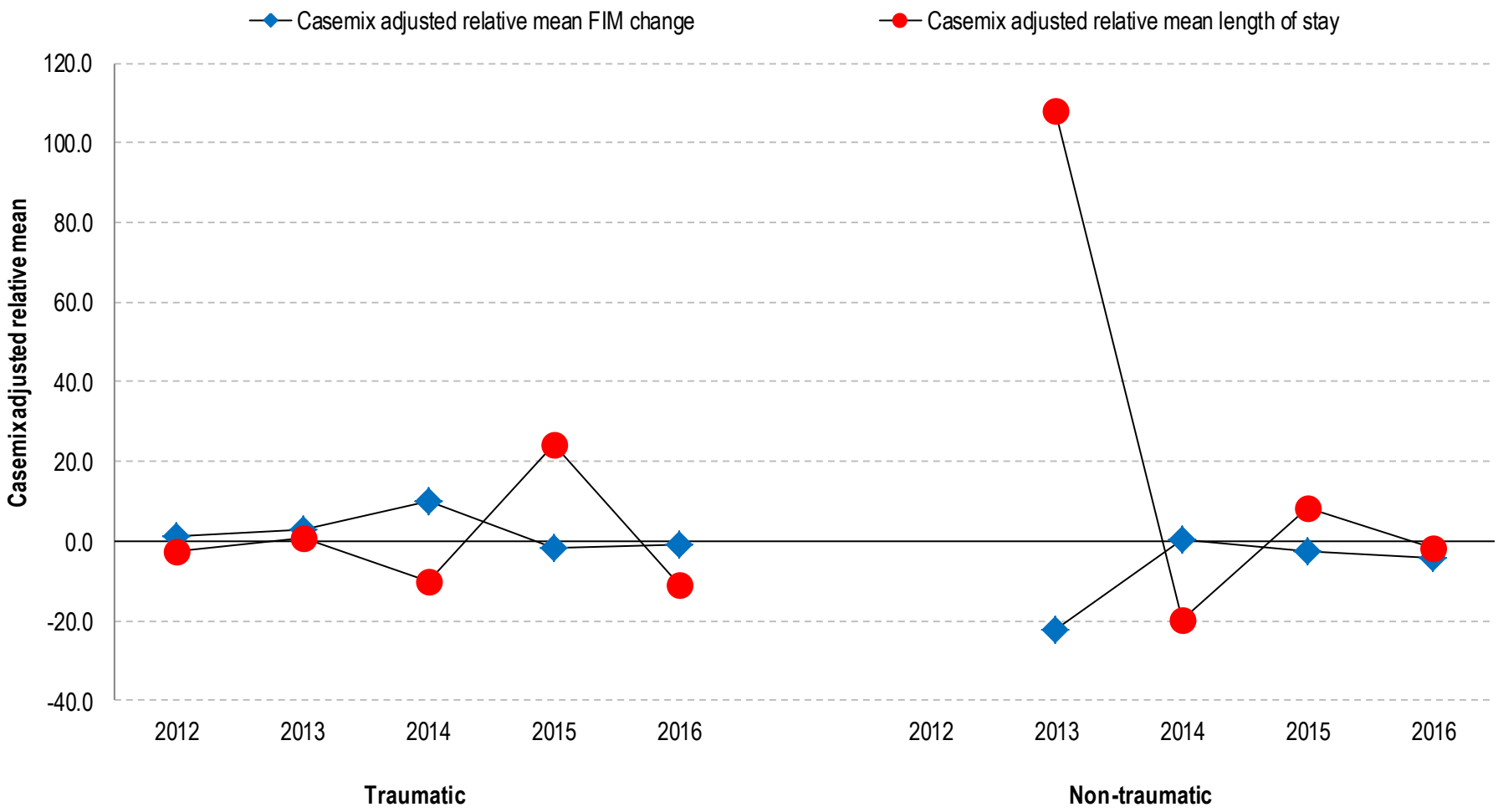


	Traumatic		YOUR FACILITY Non-traumatic	
Outcome measures	**Casemix adjustment relative mean**	**95% CI**	**Casemix adjustment relative mean**	**95% CI**
Length of stay	-11.1	-11.2 to 9.4	-1.7	-16.6 to 8.5
FIM change	-0.9	-33.6 to 11.4	-4.1	-18.6 to 15.2

**Casemix Adjustment is by CY2016 Specialist Units first admissions*

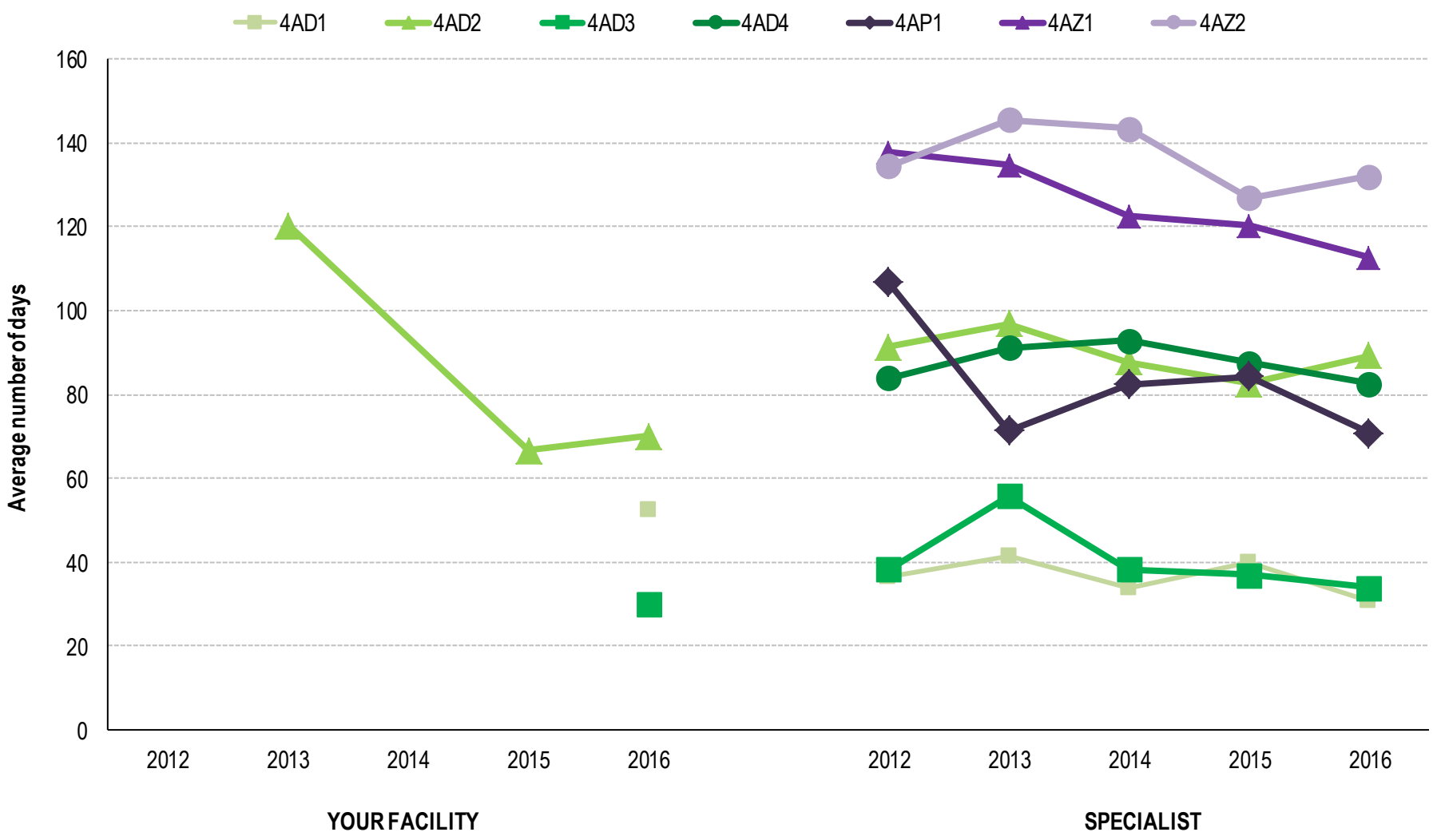
Traumatic and non-traumatic casemix-adjusted* relative means

(base year = 2016)



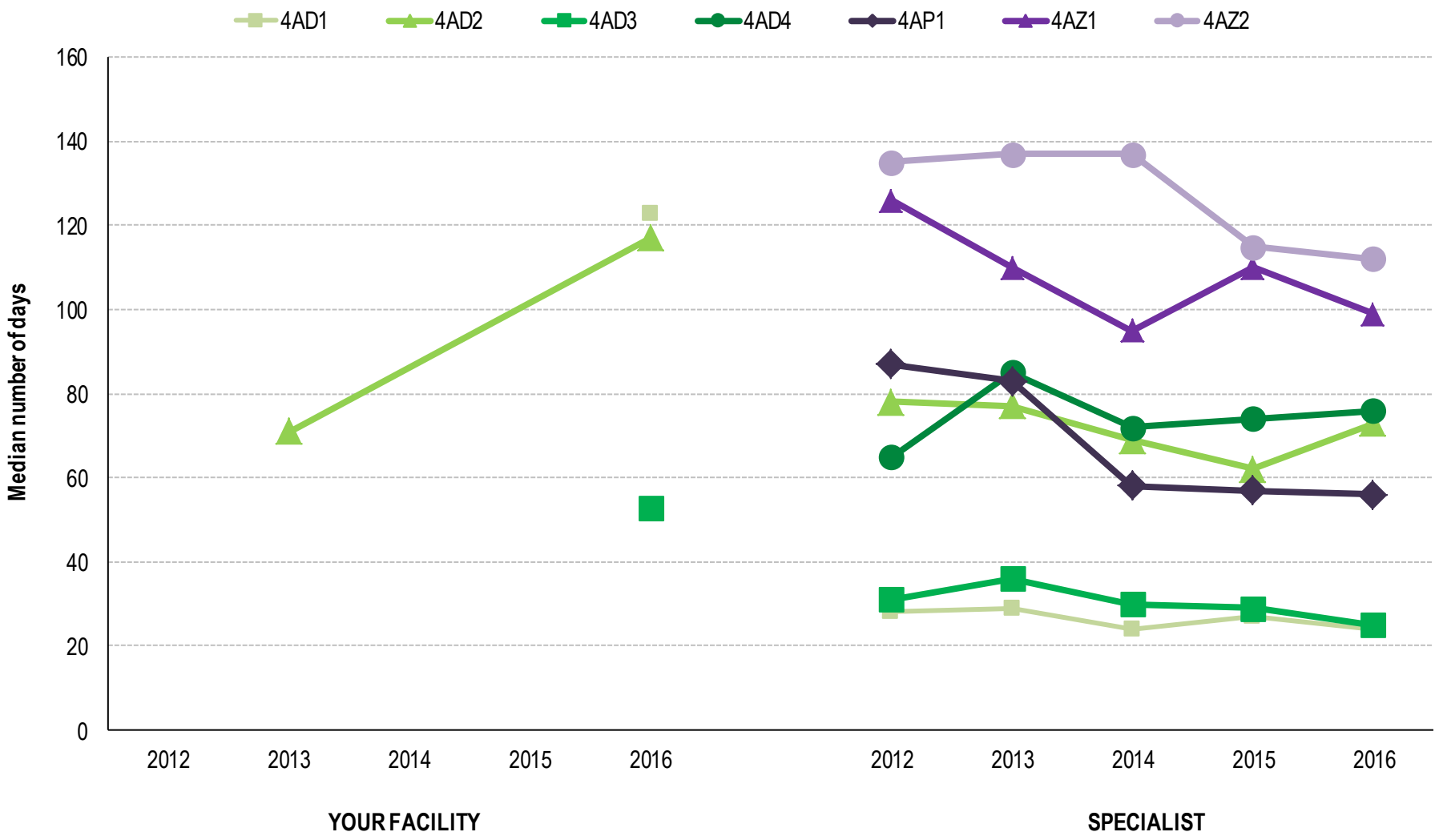
**Casemix Adjustment is by CY2016 Specialist Units first admissions*

Average LOS by AN-SNAP class over time



Note: First admission, completed episodes

Median LOS by AN-SNAP class over time



Note: First admission, completed episodes

Average LOS by AN-SNAP class over time

AVERAGE

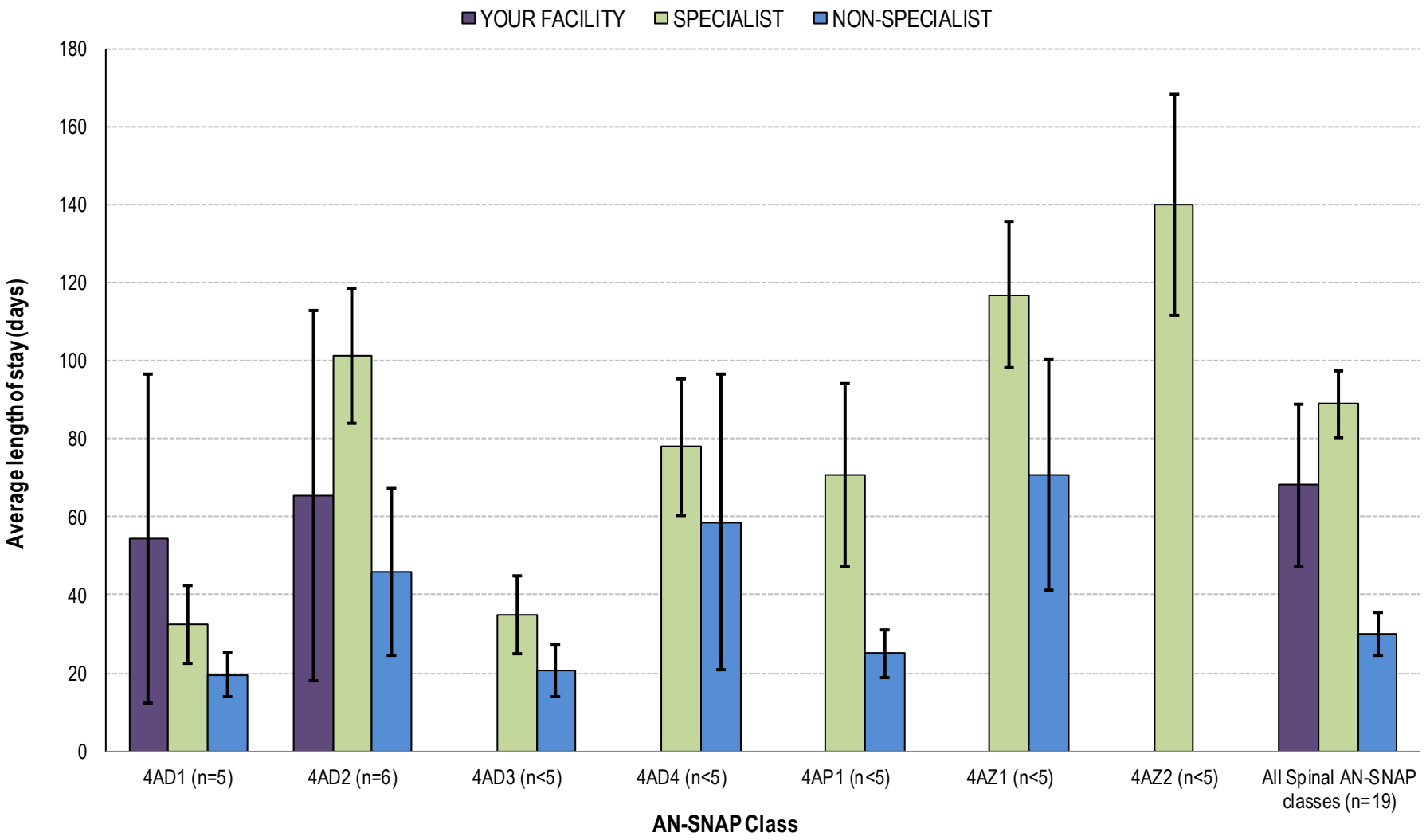
	YOUR FACILITY					SPECIALIST					NON-SPECIALIST				
AN-SNAP class	**2012**	**2013**	**2014**	**2015**	**2016**	**2012**	**2013**	**2014**	**2015**	**2016**	**2012**	**2013**	**2014**	**2015**	**2016**
4AD1 (SCI, age ≥ 50, weighted FIM motor 42-91)	—	—	—	—	52.3	36.5	41.6	33.9	40.0	30.6	21.5	23.5	20.8	18.6	18.9
4AD2 (SCI, age ≥ 50, weighted FIM motor 19-41)	—	120.2	—	66.6	70.1	91.3	96.8	87.7	82.7	89.3	59.1	53.3	58.1	45.9	49.0
4AD3 (SCI, age ≤ 49, weighted FIM motor 34-91)	—	—	—	—	30.0	38.3	55.9	38.4	36.9	34.0	26.4	31.0	24.9	25.2	24.8
4AD4 (SCI, age ≤ 49, weighted FIM motor 19-33)	—	—	—	—	—	84.0	91.1	92.9	87.5	82.5	96.8	87.8	76.1	70.7	48.2
4AP1 (MMT, weighted FIM motor 19-91)	—	—	—	—	—	106.7	71.5	82.5	84.3	70.7	33.8	46.0	30.8	37.1	24.9
4AZ1 (SCI or MMT, age ≥ 49, weighted FIM motor 13-18)	—	—	—	—	—	137.7	134.7	122.5	120.3	112.6	110.6	95.6	65.2	61.5	66.4
4AZ2 (SCI or MMT, age ≤ 48, weighted FIM motor 13-18)	—	—	—	—	—	134.5	145.6	143.5	127.0	132.0	107.5	115.6	90.3	43.1	—
All Spinal AN-SNAP classes	**76.0**	**112.1**	**64.5**	**95.1**	**62.7**	**80.0**	**88.2**	**83.0**	**82.4**	**75.9**	**44.5**	**46.7**	**40.3**	**33.4**	**32.9**

MEDIAN

	YOUR FACILITY					SPECIALIST					NON-SPECIALIST				
AN-SNAP class	**2012**	**2013**	**2014**	**2015**	**2016**	**2012**	**2013**	**2014**	**2015**	**2016**	**2012**	**2013**	**2014**	**2015**	**2016**
4AD1 (SCI, age ≥ 50, weighted FIM motor 42-91)	—	—	—	—	123	28	29	24	27	24	16	18	18	15	15
4AD2 (SCI, age ≥ 50, weighted FIM motor 19-41)	—	71	—	—	117	78	77	69	62	73	43	41	44	35	42
4AD3 (SCI, age ≤ 49, weighted FIM motor 34-91)	—	—	—	—	53	31	36	30	29	25	19	25	16	21	18
4AD4 (SCI, age ≤ 49, weighted FIM motor 19-33)	—	—	—	—	—	65	85	72	74	76	84	75	77	46	30
4AP1 (MMT, weighted FIM motor 19-91)	—	—	—	—	—	87	83	58	57	56	29	26	19	22	22
4AZ1 (SCI or MMT, age ≥ 49, weighted FIM motor 13-18)	—	—	—	—	—	126	110	95	110	99	69	90	54	52	51
4AZ2 (SCI or MMT, age ≤ 48, weighted FIM motor 13-18)	—	—	—	—	—	135	137	137	115	112	85	134	91	35	—
All Spinal AN-SNAP classes	**179**	**143**	**170**	**146**	**123**	**61**	**71**	**62**	**64**	**59**	**26**	**30**	**26**	**23**	**23**

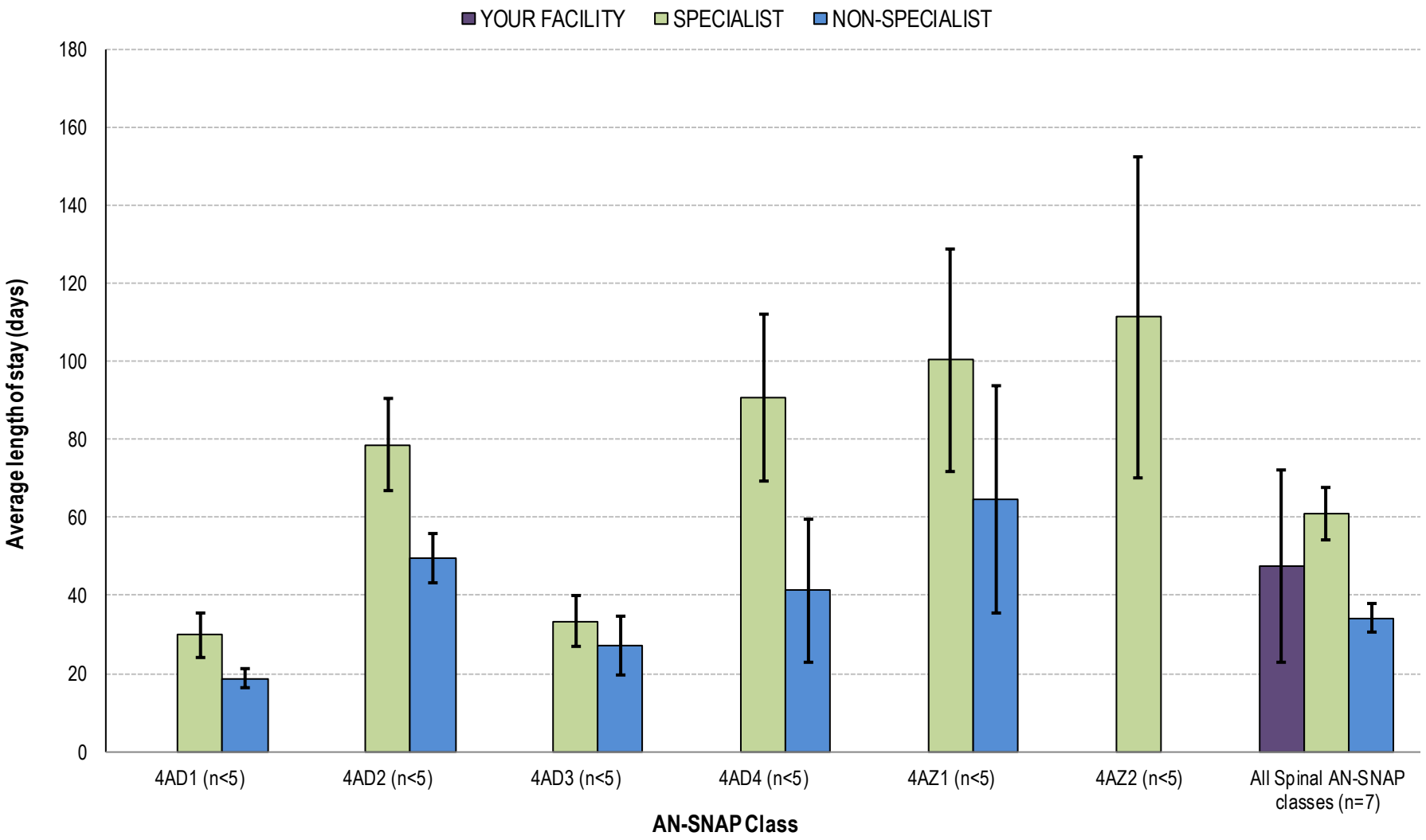
Note: First admission, completed episodes

Traumatic ALOS by AN-SNAP class



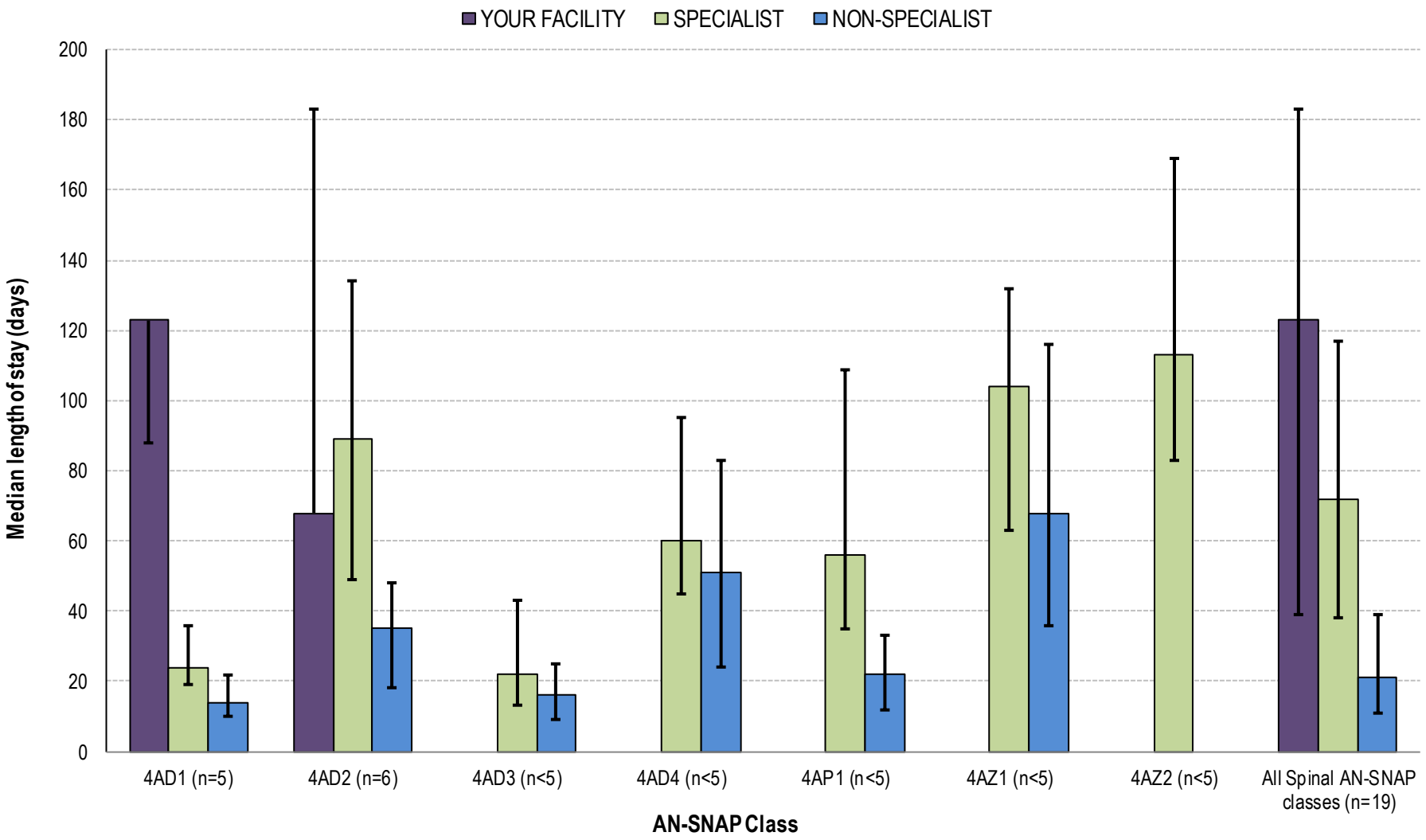
Note: First admission, completed episodes

Non-traumatic ALOS by AN-SNAP class



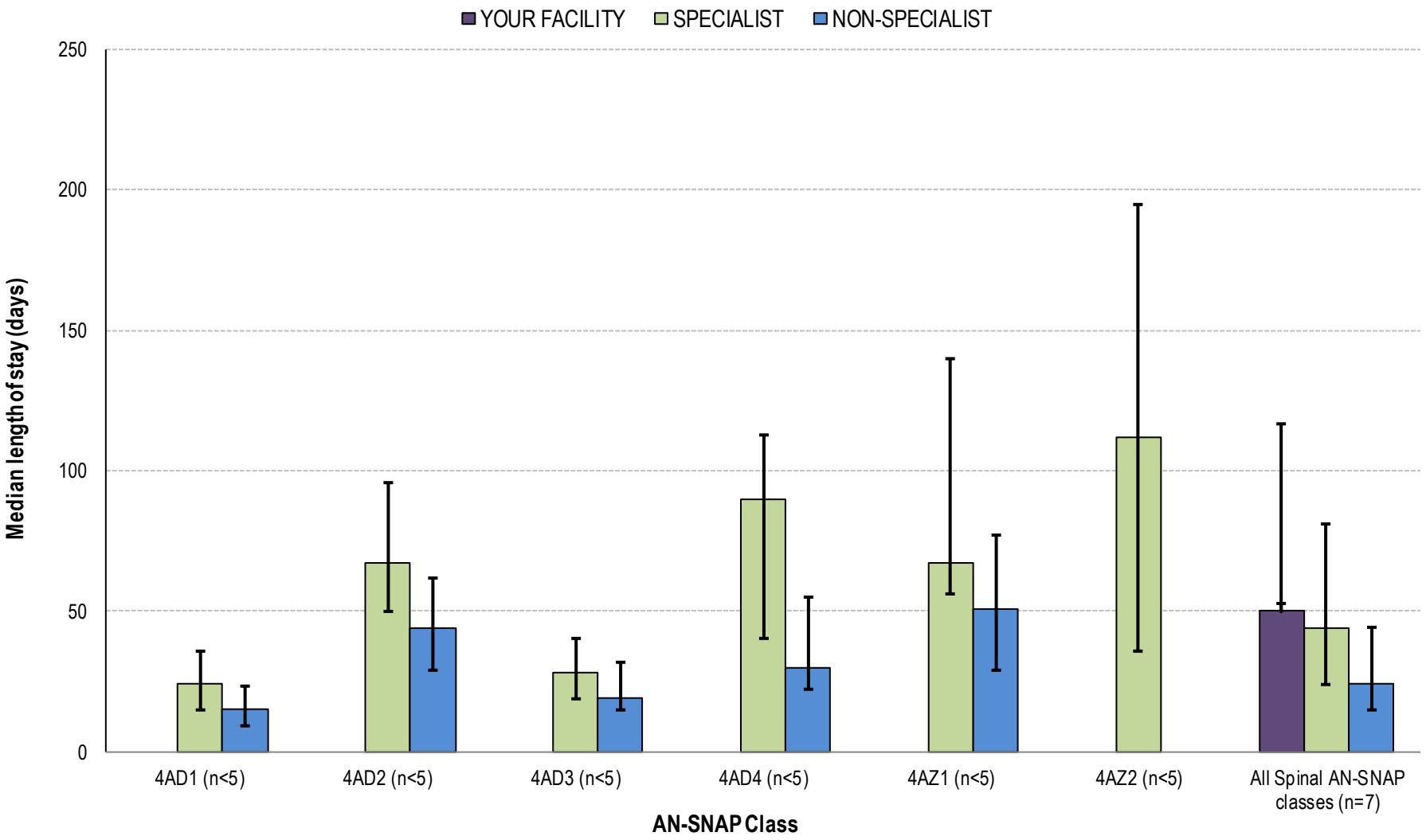
Note: First admission, completed episodes

Traumatic Median LOS by AN-SNAP class



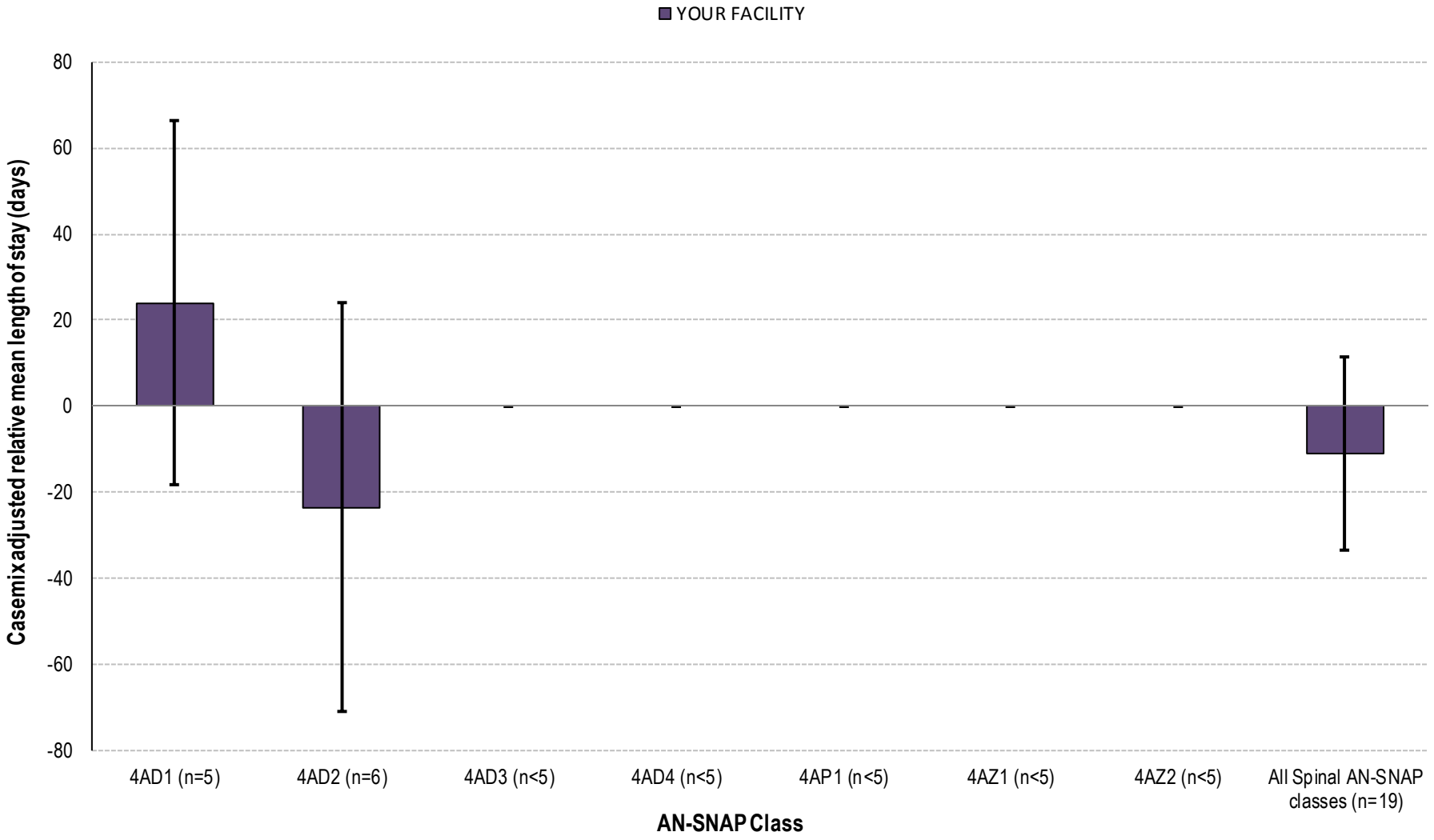
Note: First admission, completed episodes

Non-traumatic Median LOS by AN-SNAP class



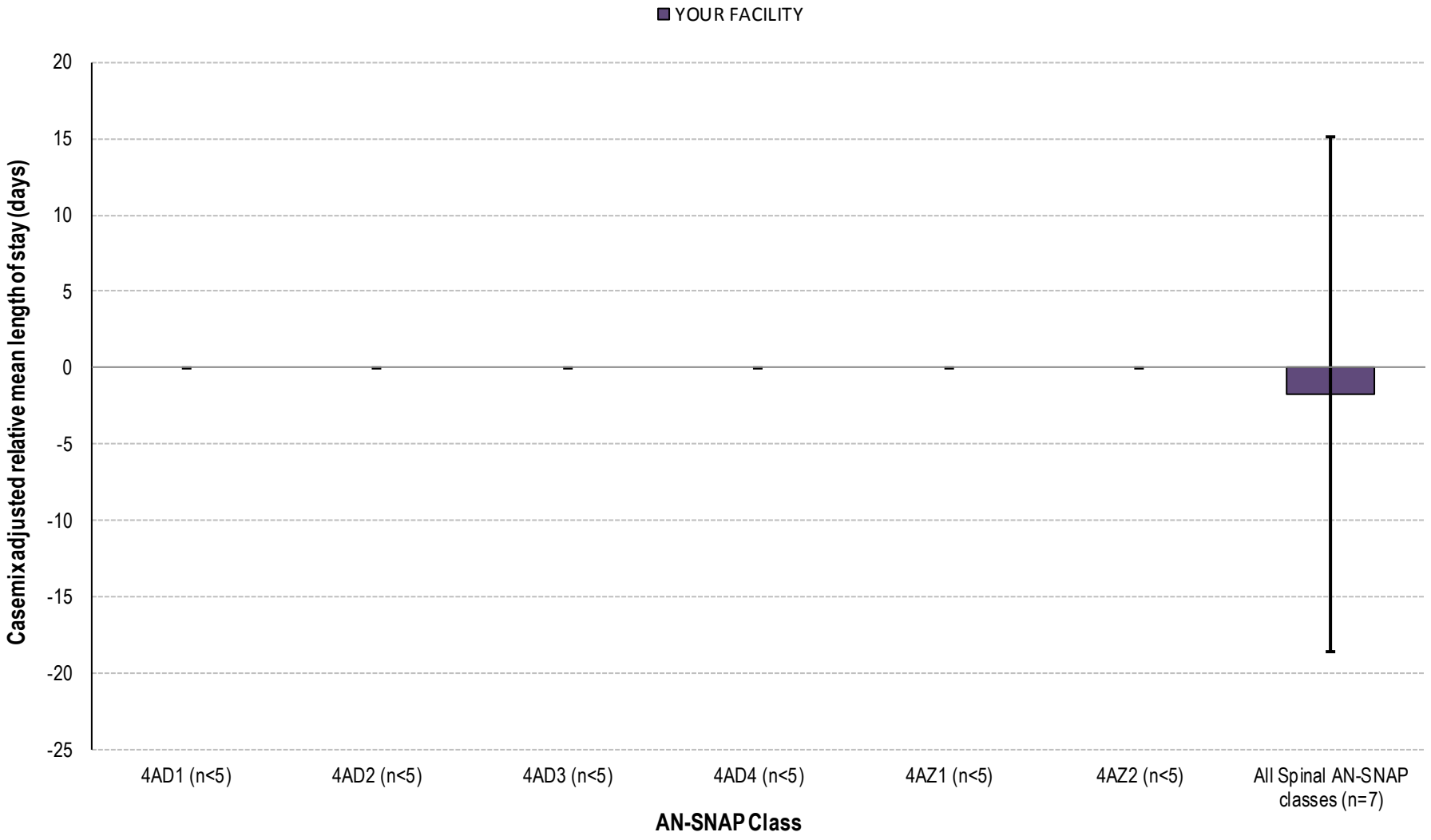
Note: First admission, completed episodes

Traumatic casemix-adjusted* relative mean LOS by AN-SNAP class



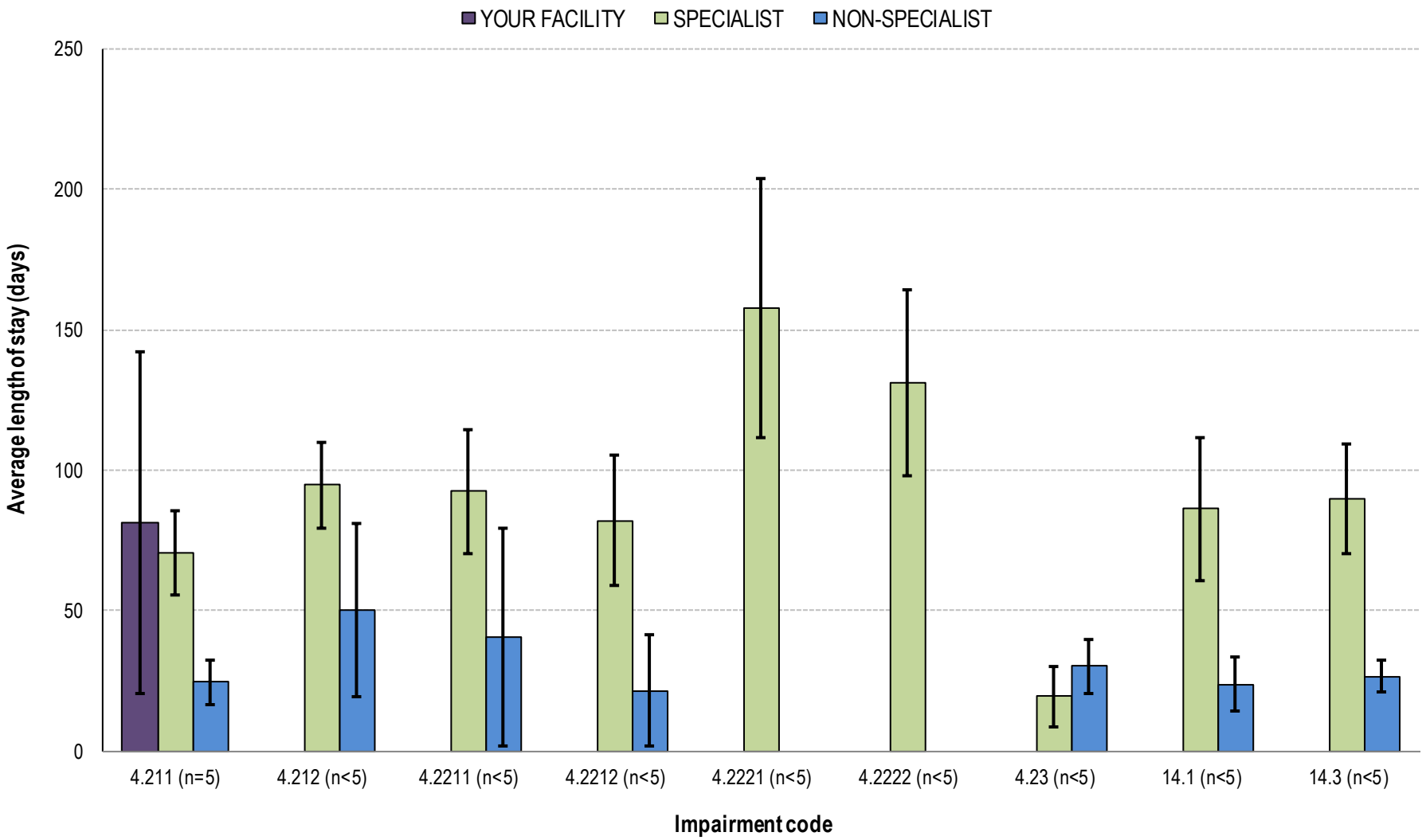
*Casemix Adjustment is by CY2016 Specialist Units first admissions

Non-traumatic casemix-adjusted* relative mean LOS by AN-SNAP class



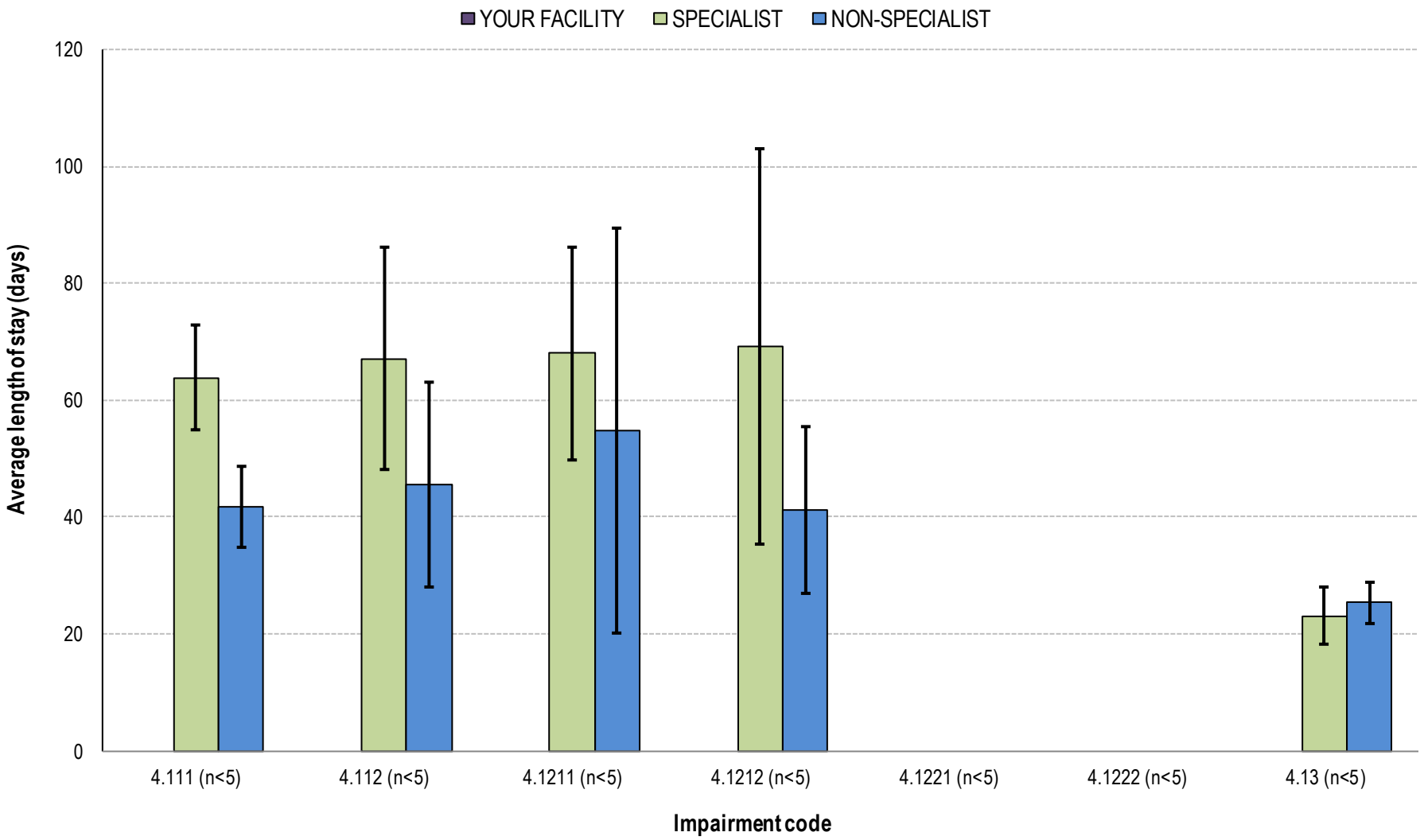
*Casemix Adjustment is by CY2016 Specialist Units first admissions

Traumatic ALOS by impairment



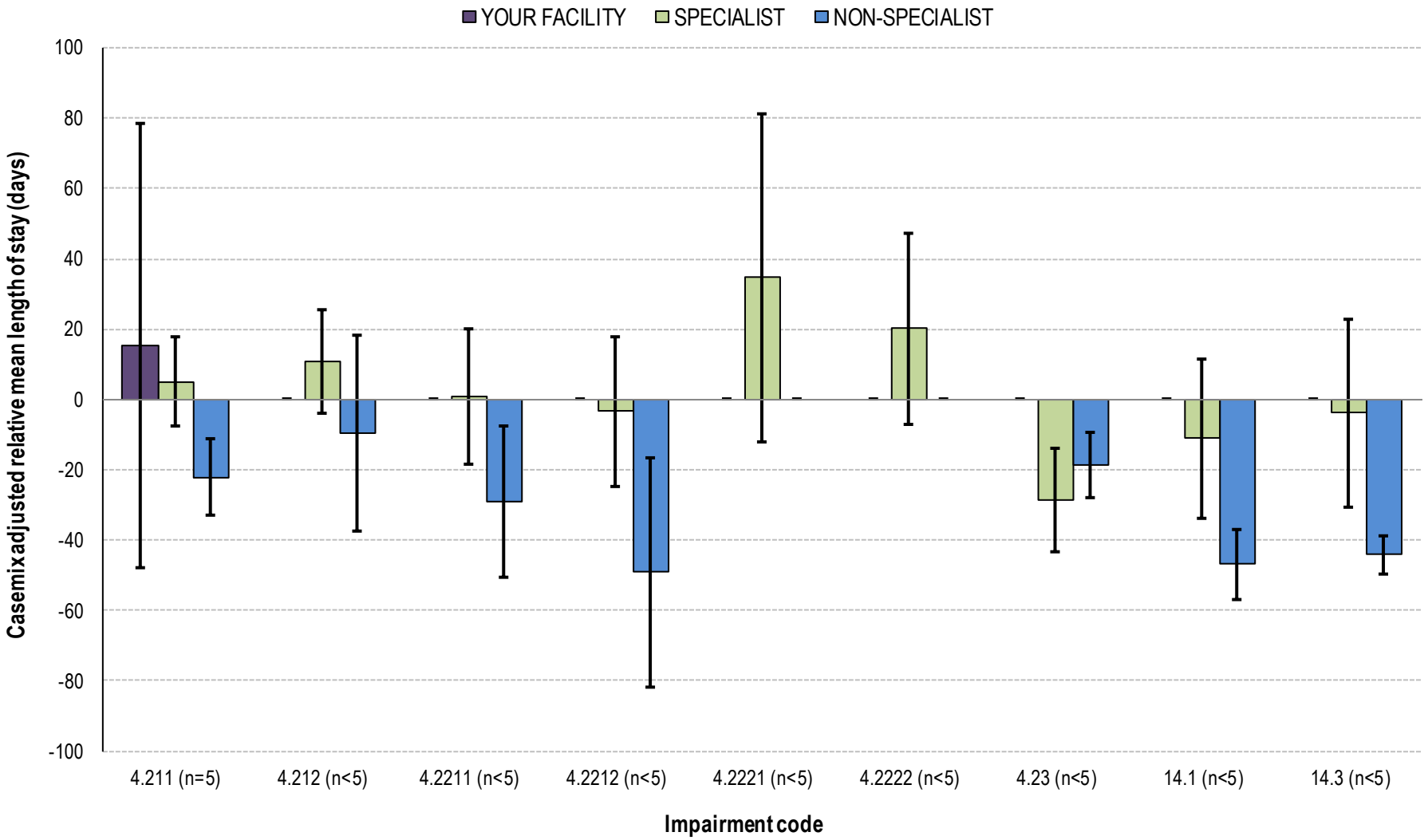
Note: First admission, completed episodes

Non-traumatic ALOS by impairment



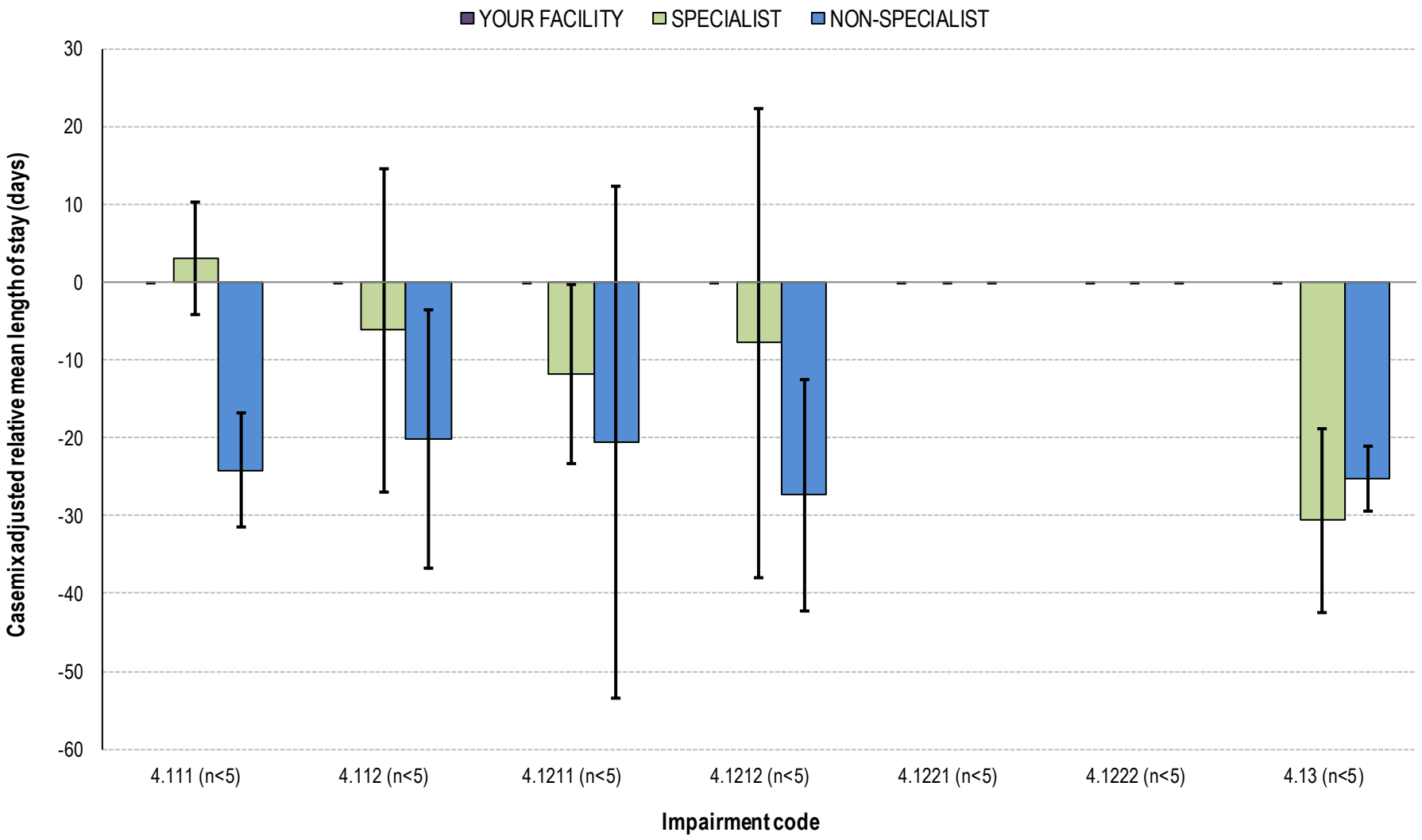
Note: First admission, completed episodes

Traumatic casemix-adjusted* relative mean LOS by impairment



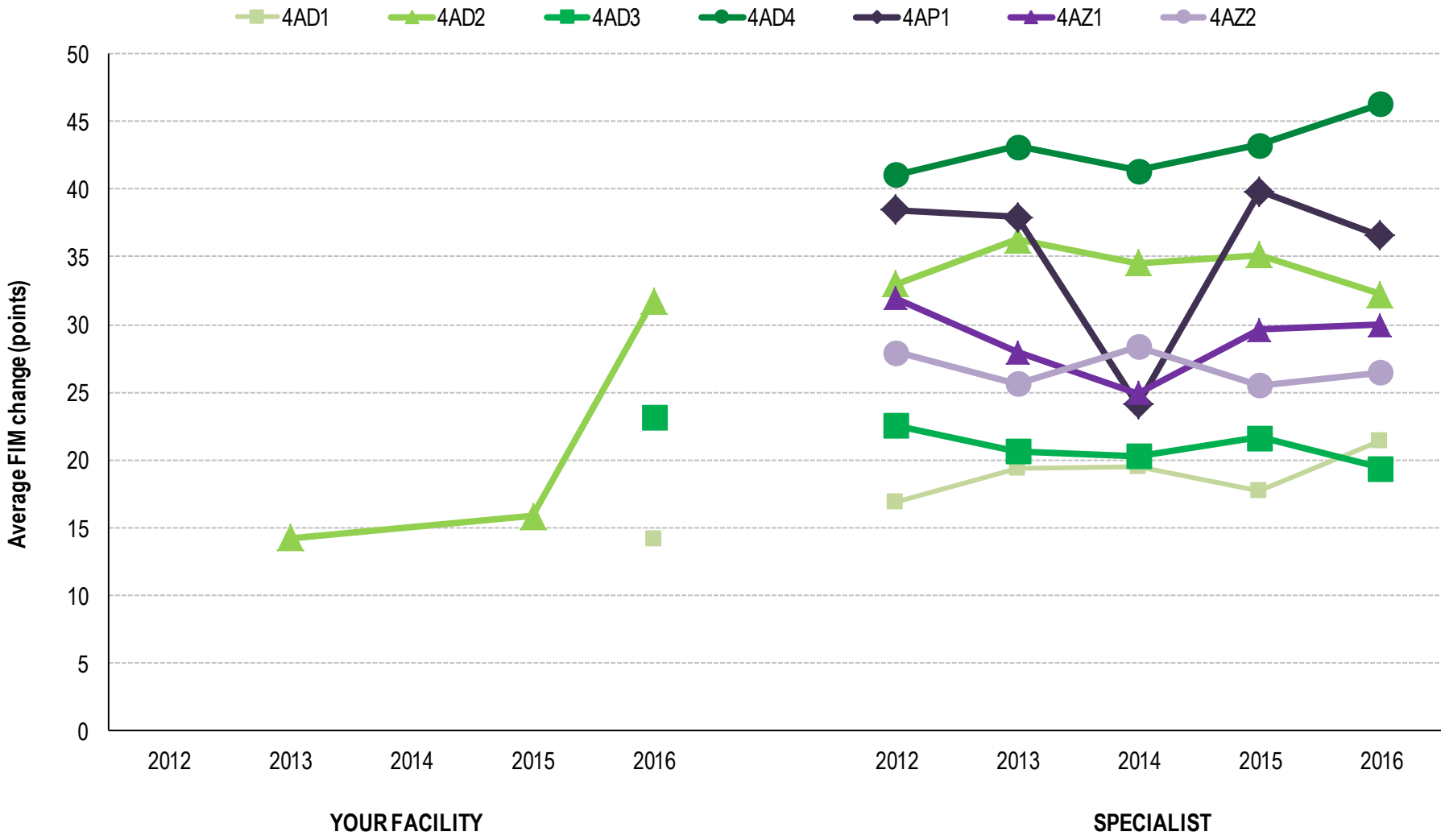
*Casemix Adjustment is by CY2016 Specialist Units first admissions

Non-traumatic casemix-adjusted* relative mean LOS by impairment



*Casemix Adjustment is by CY2016 Specialist Units first admissions

Average FIM change by AN-SNAP class over time



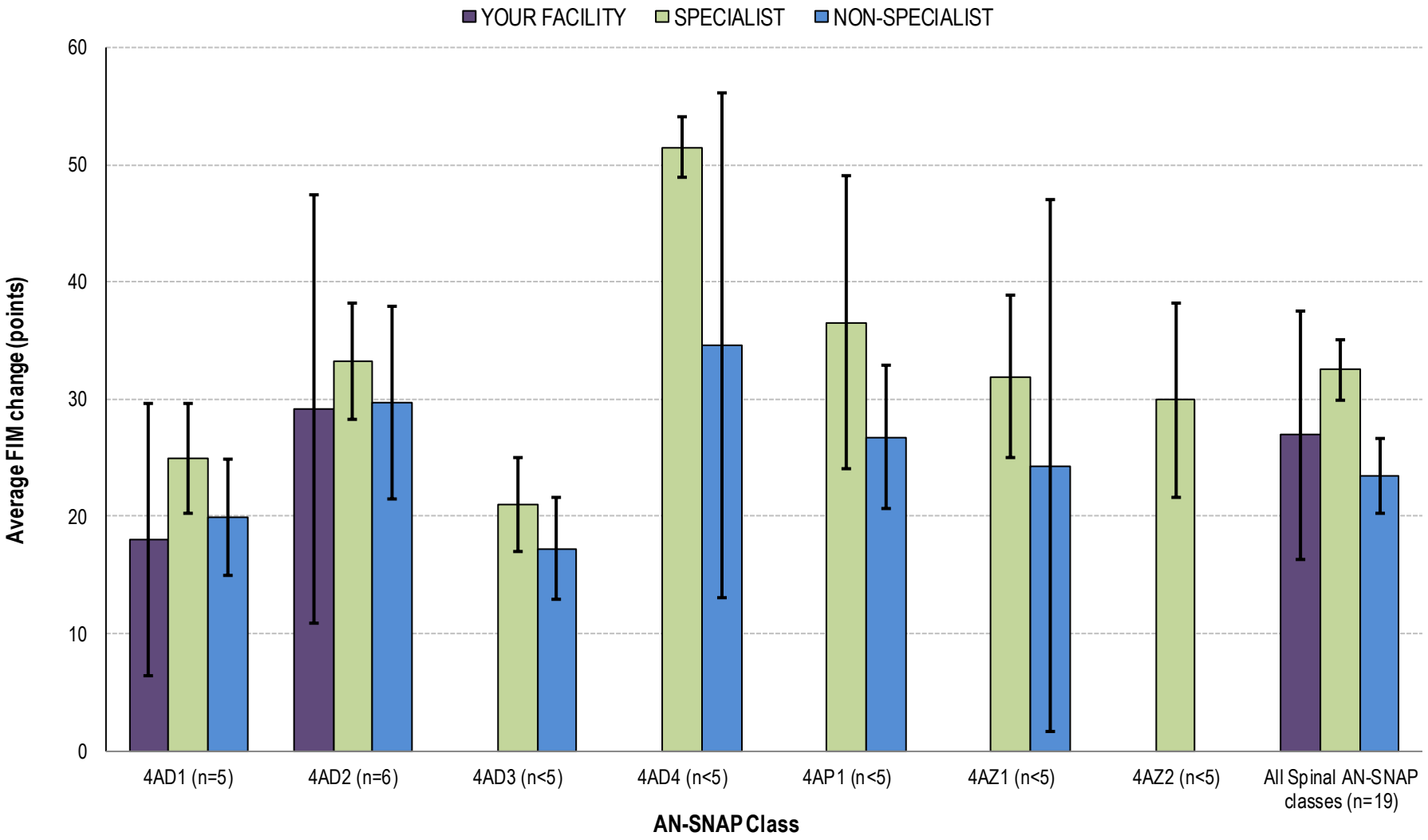
Note: First admission, completed episodes

Average FIM change by AN-SNAP class over time

	YOUR FACILITY					SPECIALIST					NON-SPECIALIST				
AN-SNAP class	**2012**	**2013**	**2014**	**2015**	**2016**	**2012**	**2013**	**2014**	**2015**	**2016**	**2012**	**2013**	**2014**	**2015**	**2016**
4AD1 (SCI, age ≥ 50, weighted FIM motor 42-91)	—	—	—	—	14.2	16.8	19.3	19.5	17.7	21.4	18.2	18.0	17.2	16.5	18.1
4AD2 (SCI, age ≥ 50, weighted FIM motor 19-41)	—	14.2	—	15.9	31.8	33.0	36.3	34.6	35.2	32.2	29.0	25.9	26.8	24.4	27.7
4AD3 (SCI, age ≤ 49, weighted FIM motor 34-91)	—	—	—	—	23.2	22.5	20.6	20.3	21.7	19.4	17.2	20.2	19.9	17.6	19.8
4AD4 (SCI, age ≤ 49, weighted FIM motor 19-33)	—	—	—	—	—	41.1	43.2	41.4	43.3	46.3	45.8	47.6	34.9	29.5	26.3
4AP1 (MMT, weighted FIM motor 19-91)	—	—	—	—	—	38.4	37.9	24.1	39.8	36.5	25.1	27.3	27.8	28.7	26.8
4AZ1 (SCI or MMT, age ≥ 49, weighted FIM motor 13-18)	—	—	—	—	—	31.9	27.9	24.9	29.6	29.9	23.9	28.6	38.0	21.4	26.6
4AZ2 (SCI or MMT, age ≤ 48, weighted FIM motor 13-18)	—	—	—	—	—	28.0	25.7	28.3	25.5	26.5	42.1	28.0	19.2	27.8	—
All Spinal AN-SNAP classes	**34.6**	**24.5**	**38.1**	**26.8**	**24.9**	**29.4**	**29.2**	**28.2**	**29.9**	**28.7**	**23.6**	**24.0**	**23.3**	**20.7**	**22.7**

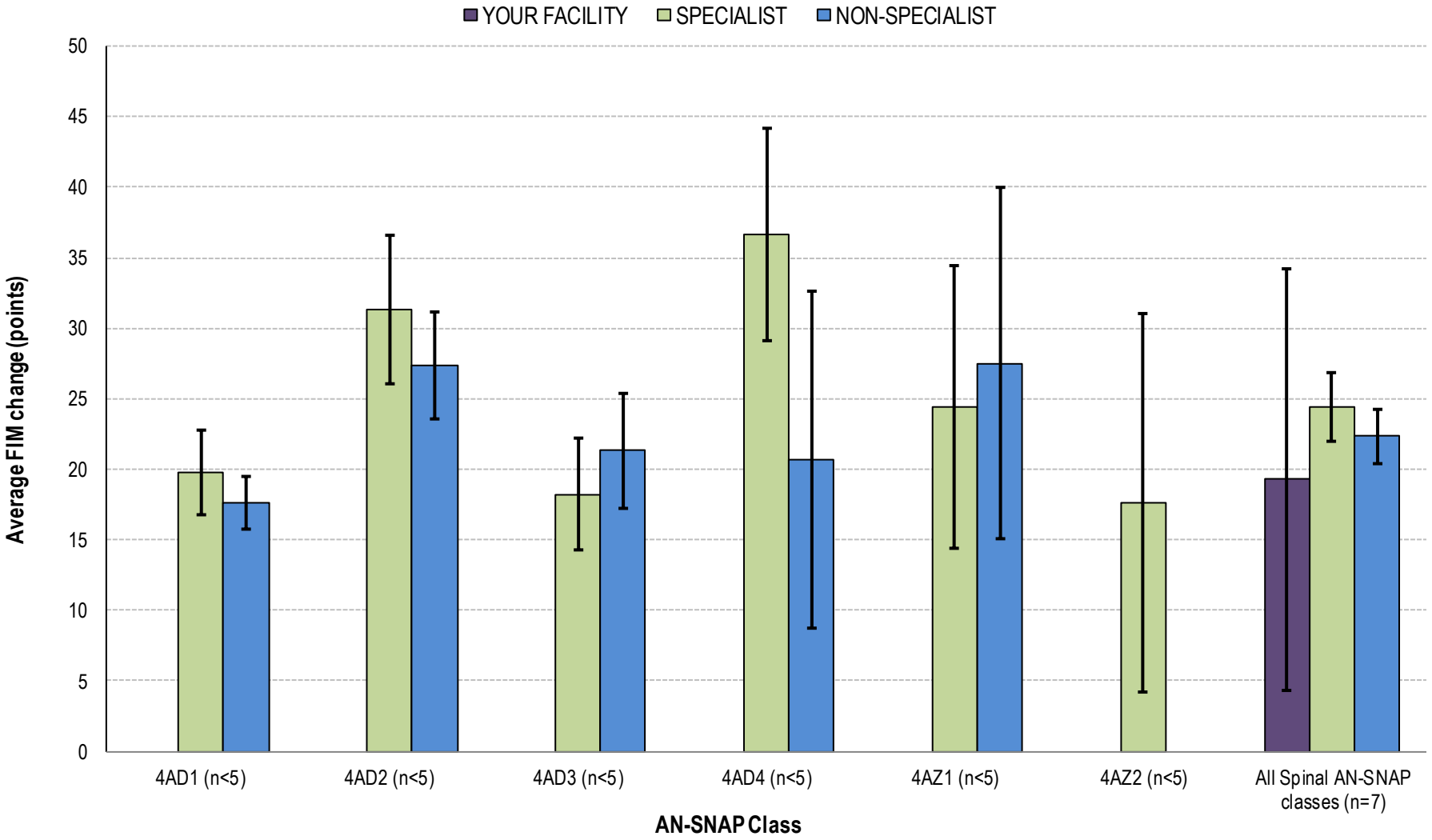
Note: First admission, completed episodes

Traumatic average FIM change by AN-SNAP class



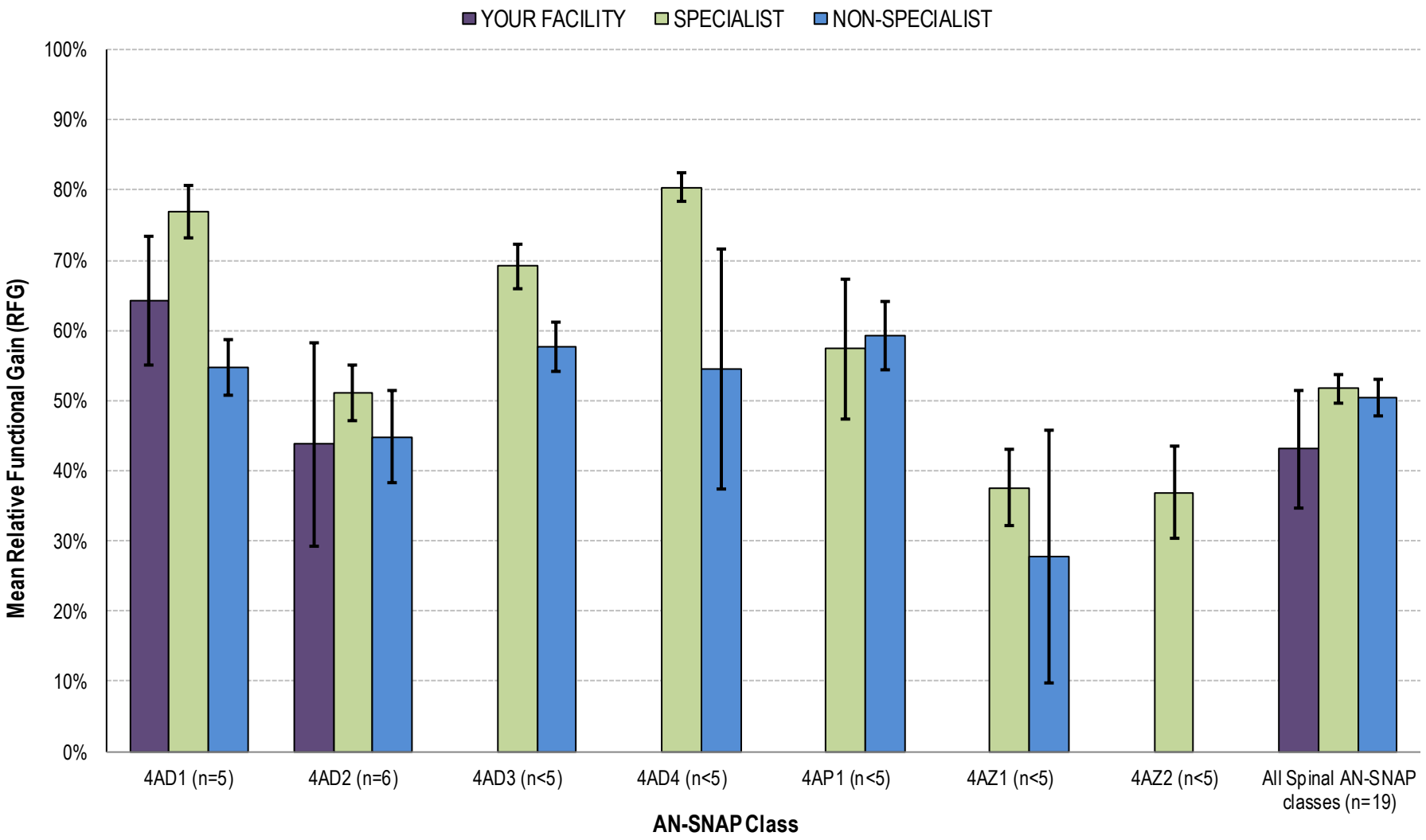
Note: First admission, completed episodes

Non-traumatic average FIM change by AN-SNAP class



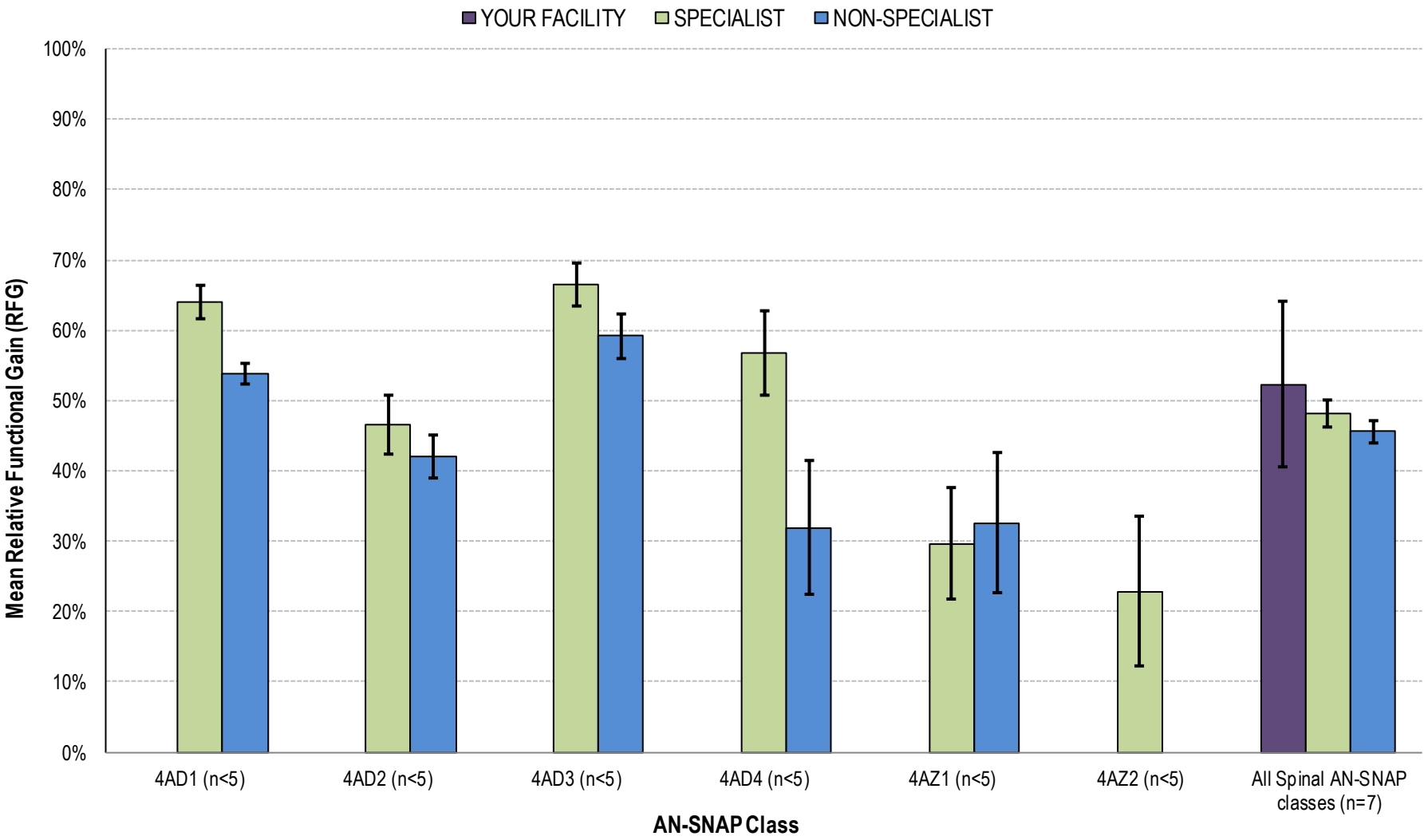
Note: First admission, completed episodes

Traumatic mean RFG by AN-SNAP class



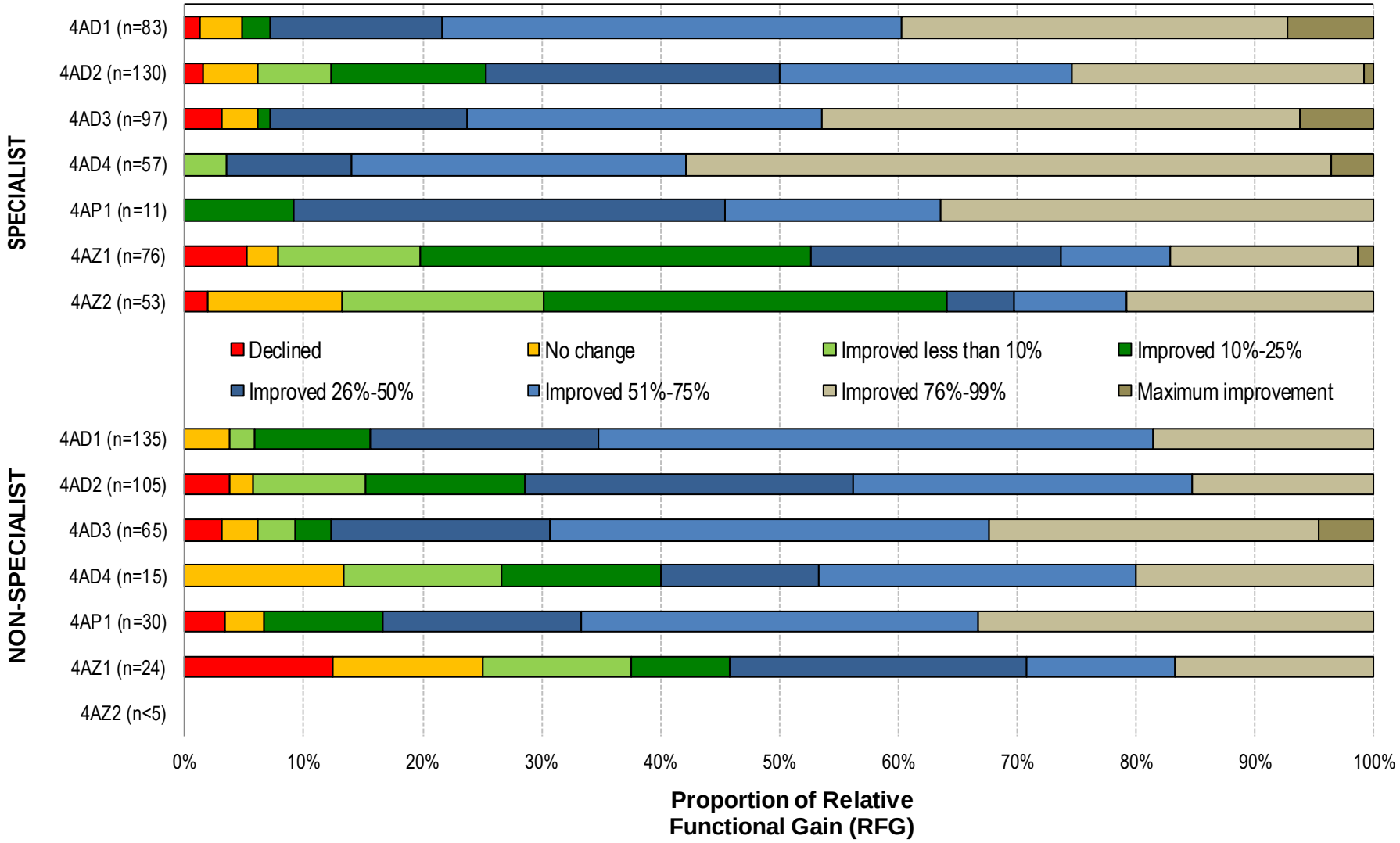
Note: First admission, completed episodes

Non-traumatic mean RFG by AN-SNAP class



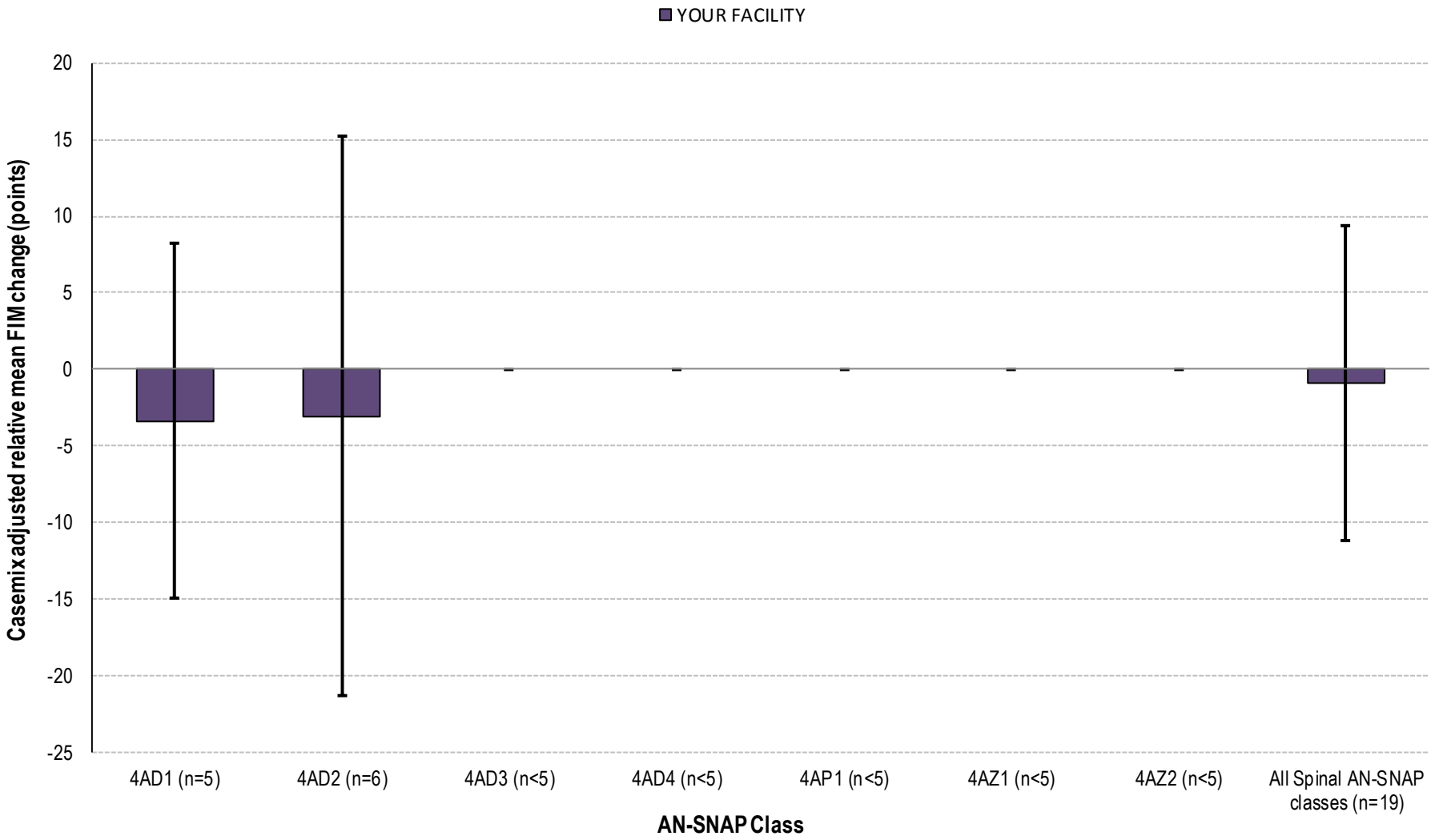
Note: First admission, completed episodes

Relative Functional Gain by AN-SNAP class



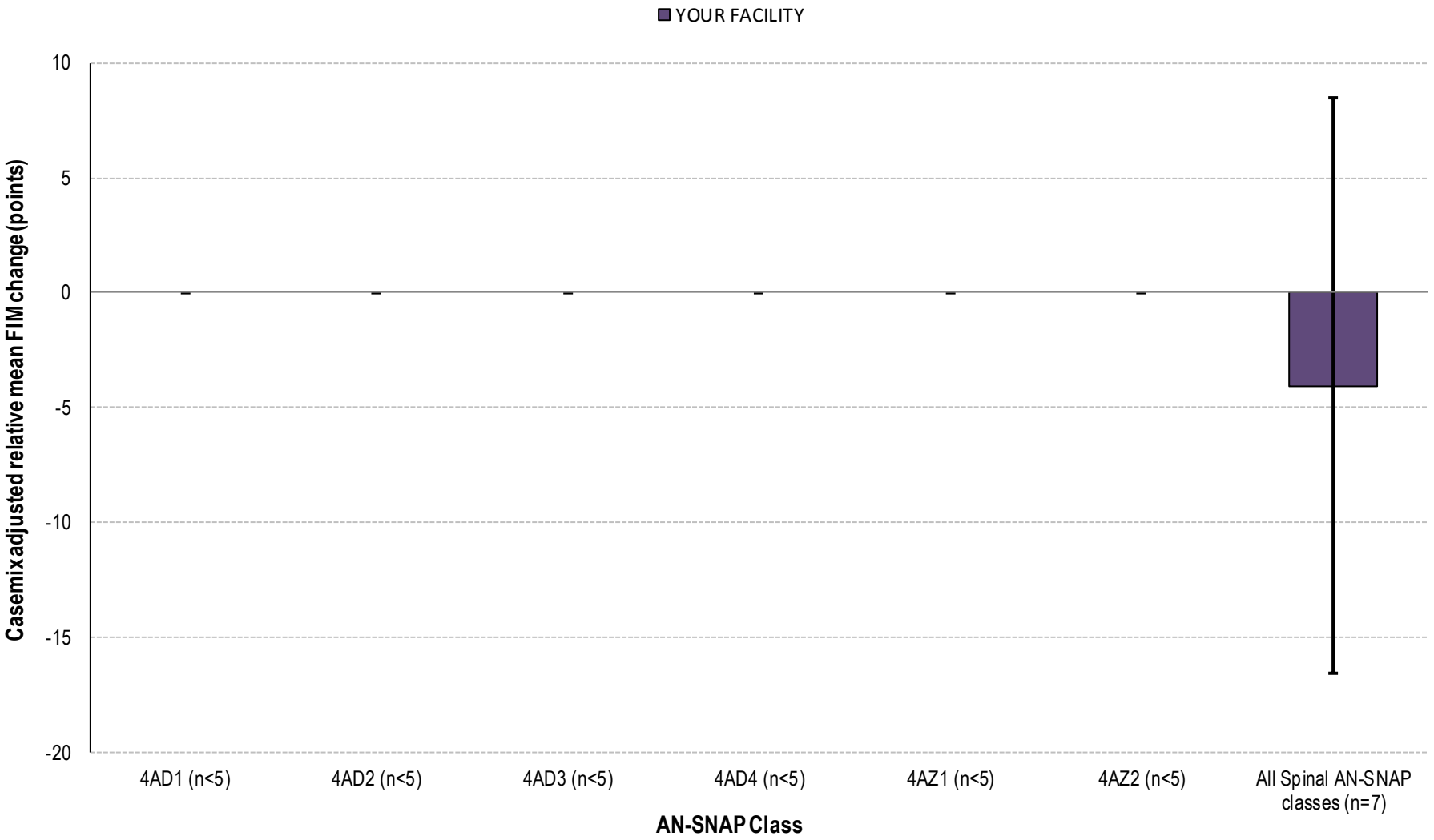
Note: First admission, completed episodes

Traumatic casemix-adjusted* relative mean FIM change by AN-SNAP class



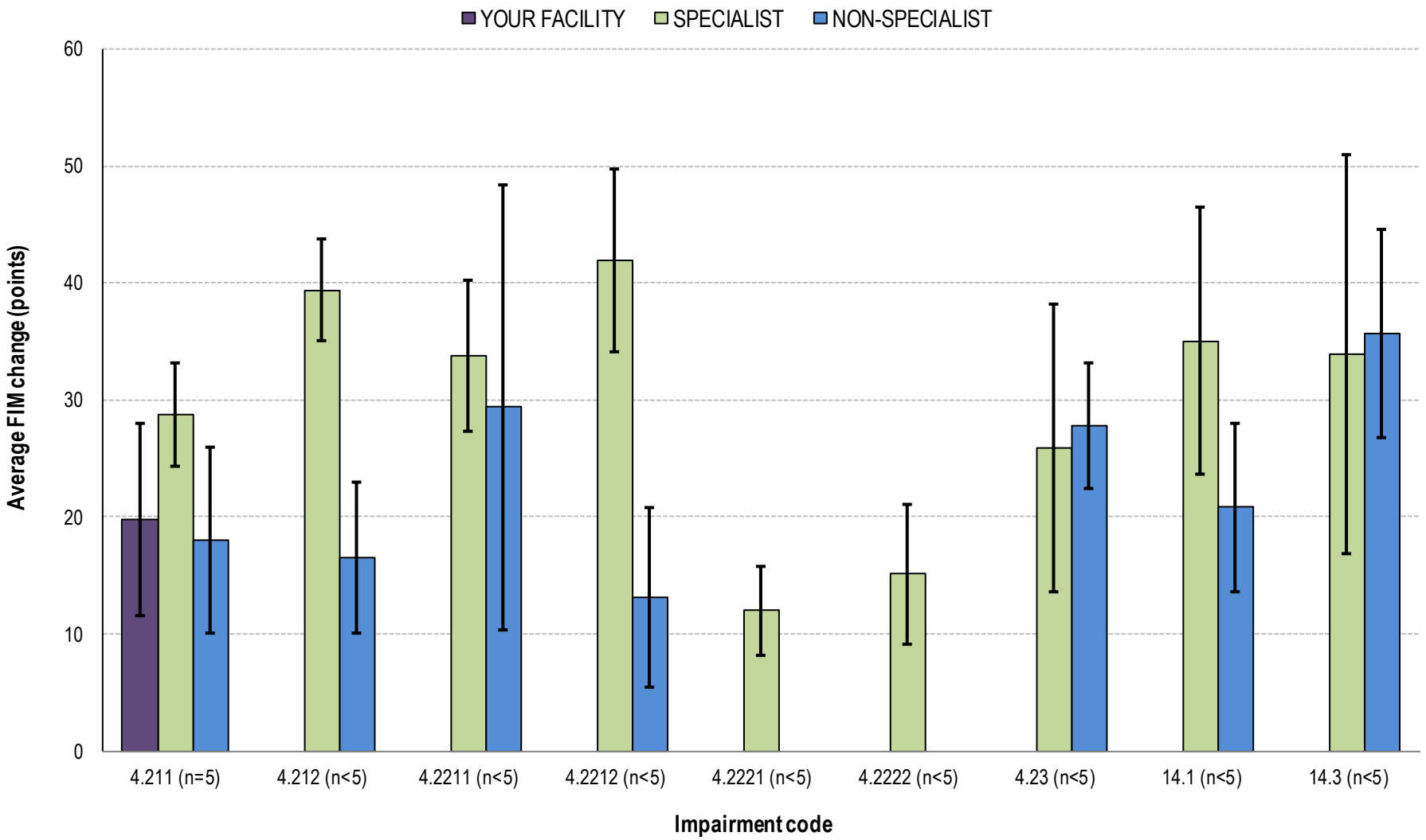
*Casemix Adjustment is by CY2016 Specialist Units first admissions

Non-traumatic casemix-adjusted* relative mean FIM change by AN-SNAP class



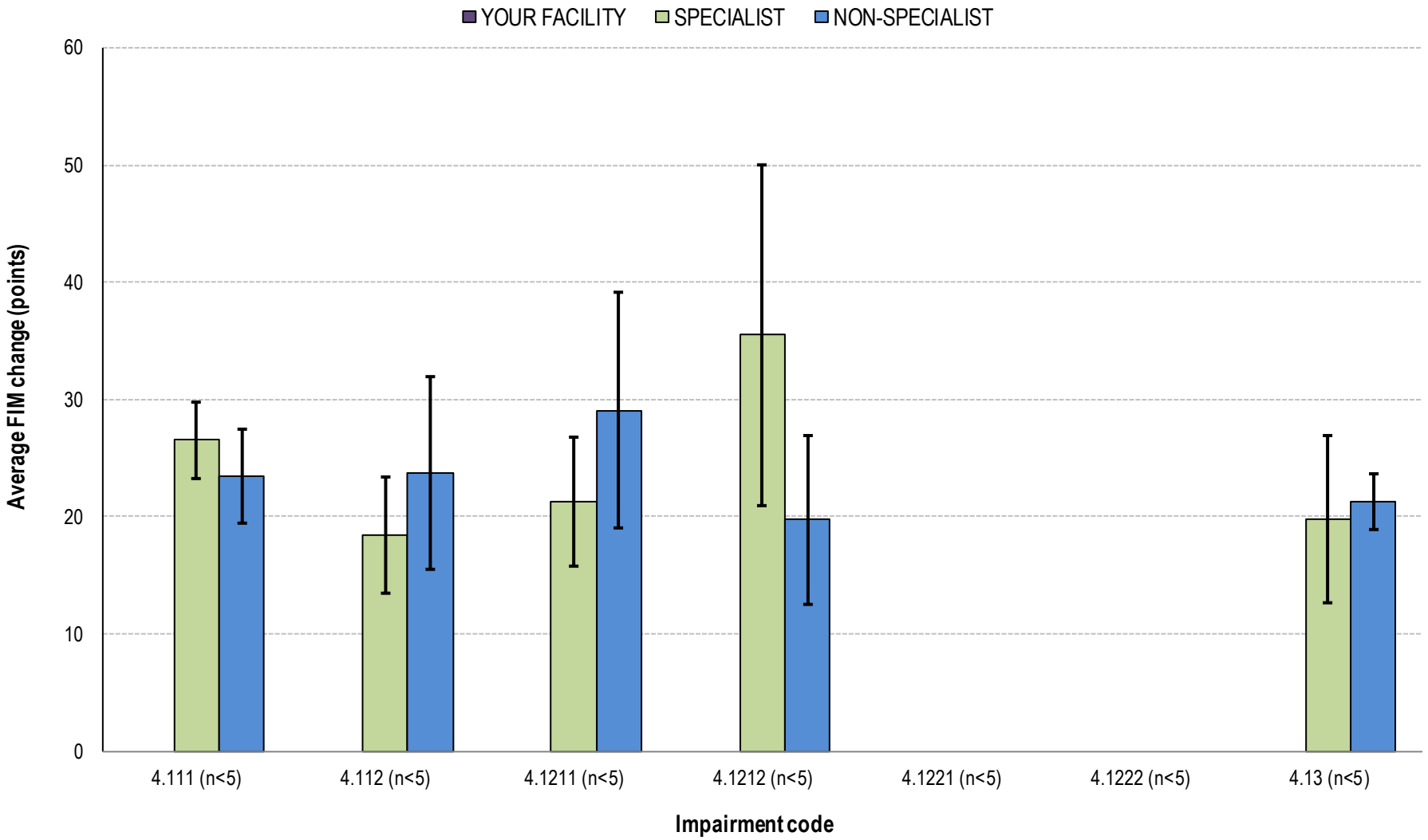
*Casemix Adjustment is by CY2016 Specialist Units first admissions

Traumatic average FIM change by impairment



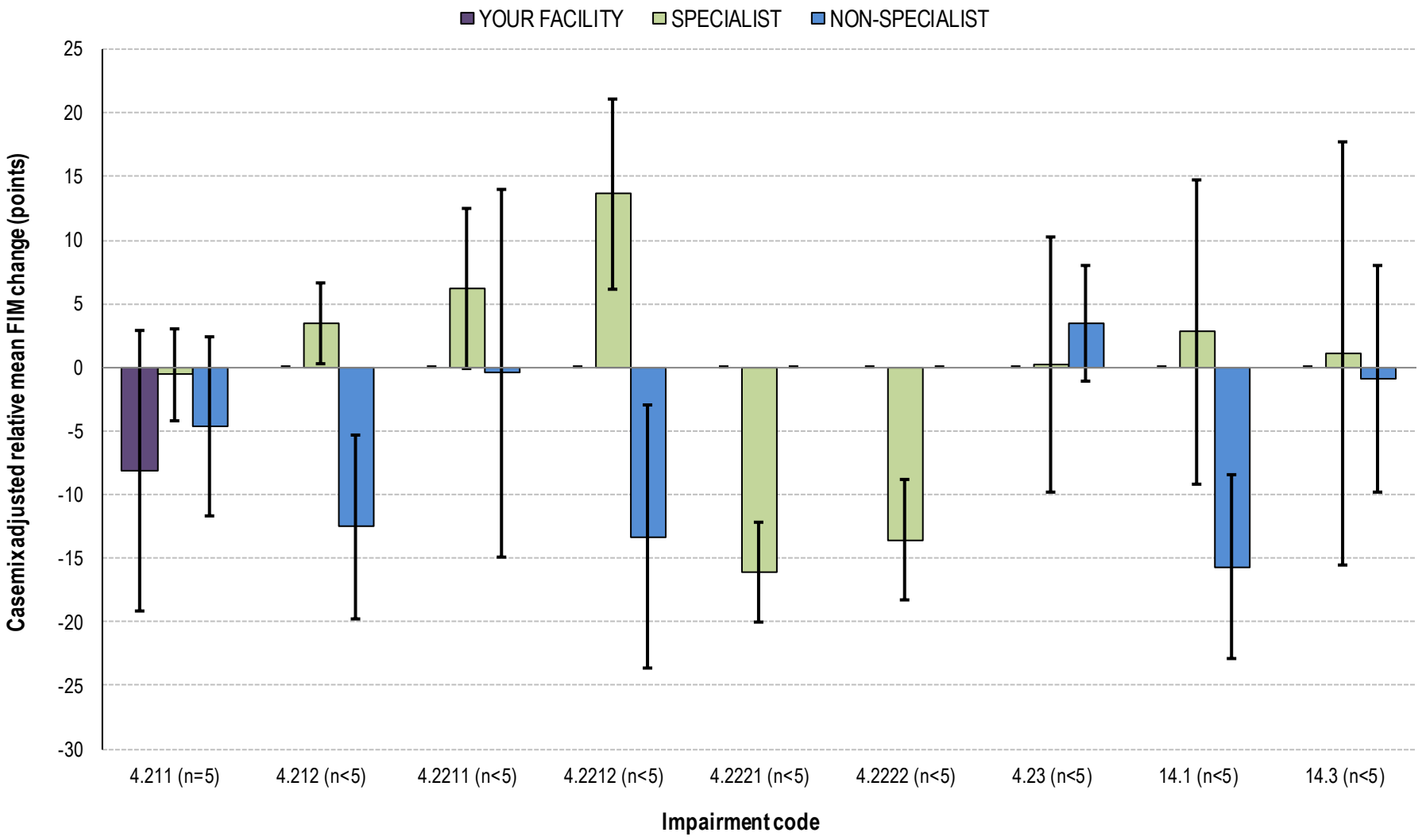
Note: First admission, completed episodes

Non-traumatic average FIM change by impairment



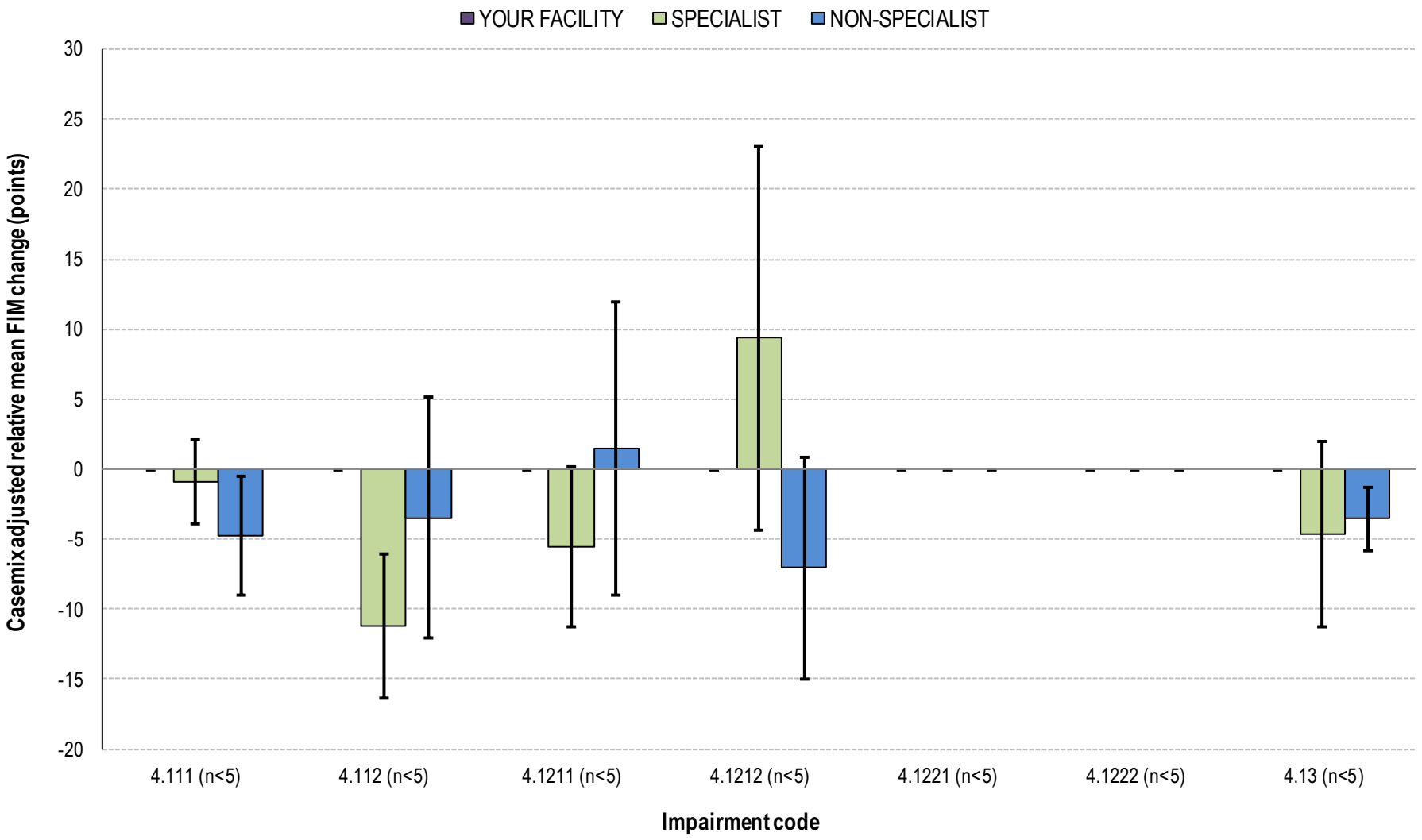
Note: First admission, completed episodes

Traumatic casemix-adjusted* relative mean FIM change by impairment



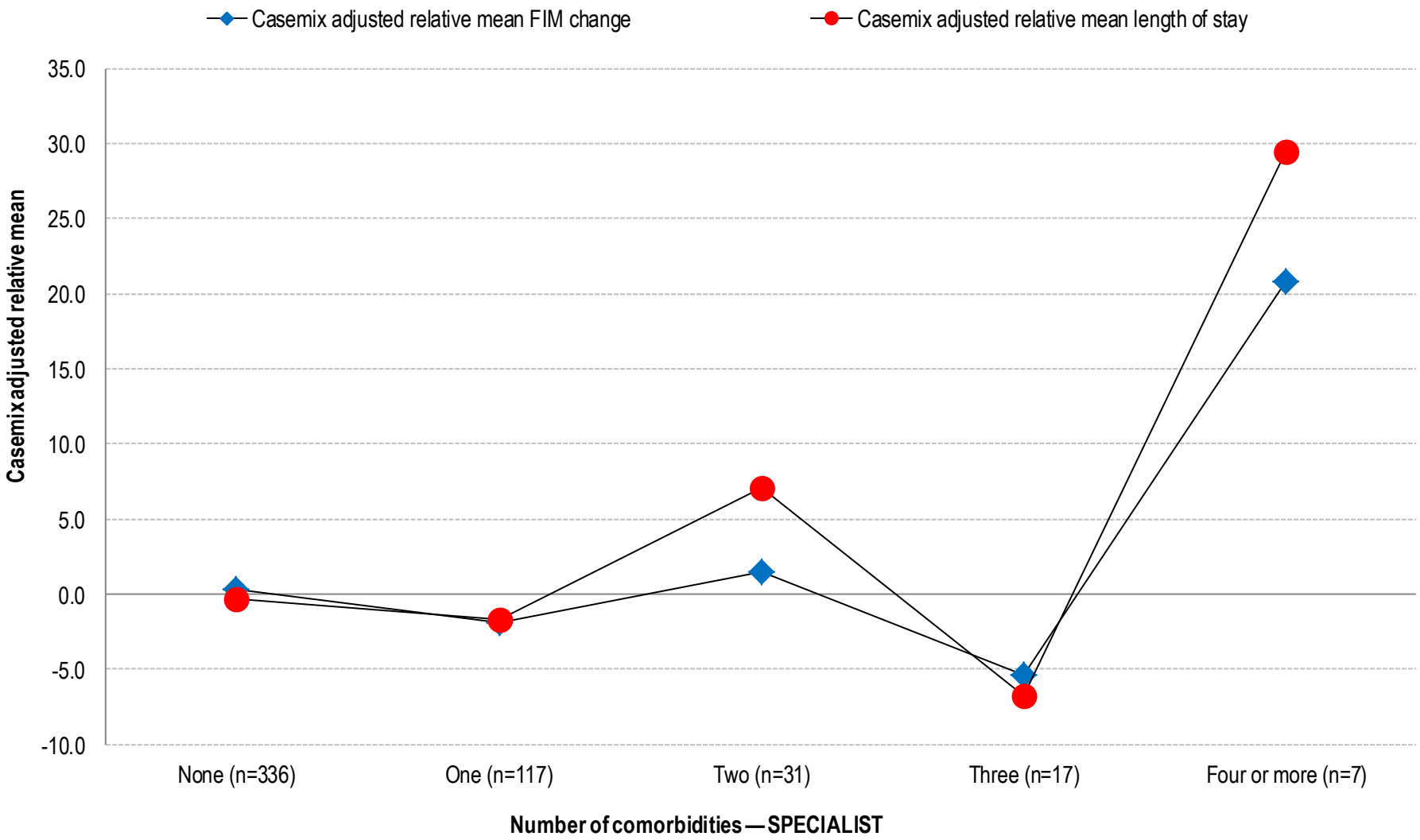
Casemix Adjustment is by CY2016 Specialist Units first admissions

Non-traumatic casemix-adjusted* relative mean FIM change by impairment



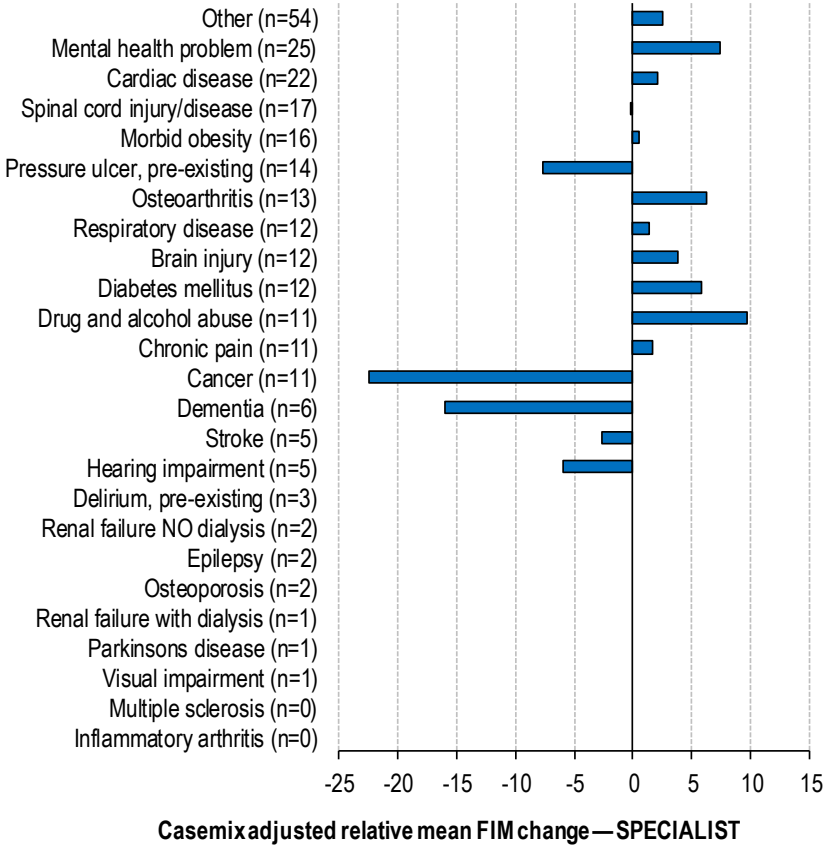
*Casemix Adjustment is by CY2016 Specialist Units first admissions

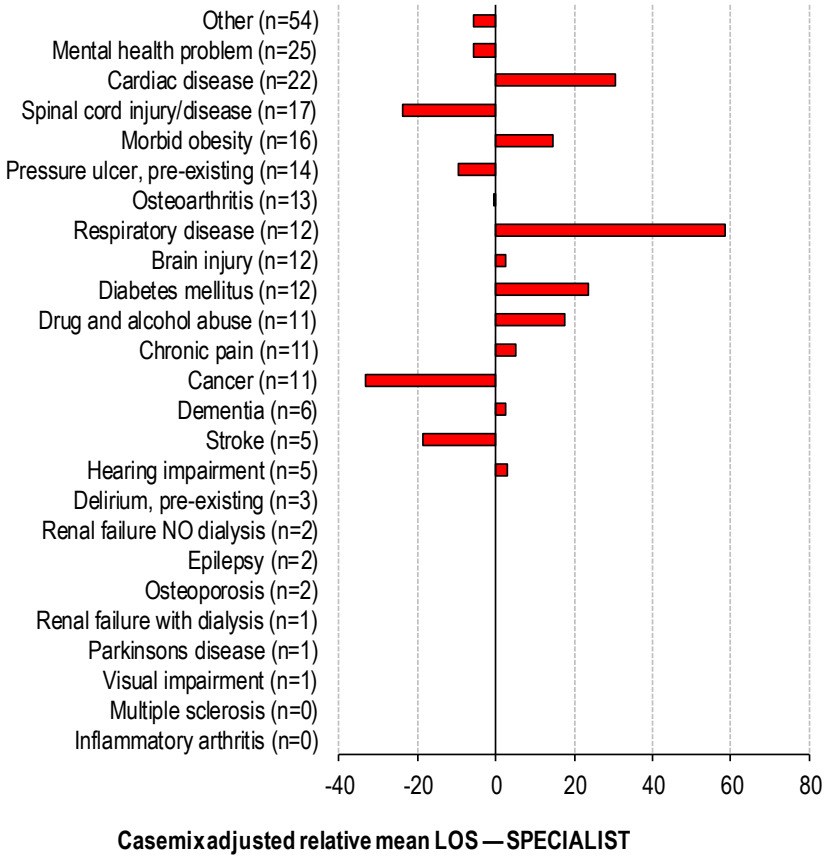
Casemix-adjusted* relative mean LOS and FIM change by number of comorbidities



*Casemix Adjustment is by CY2016 Specialist Units first admissions

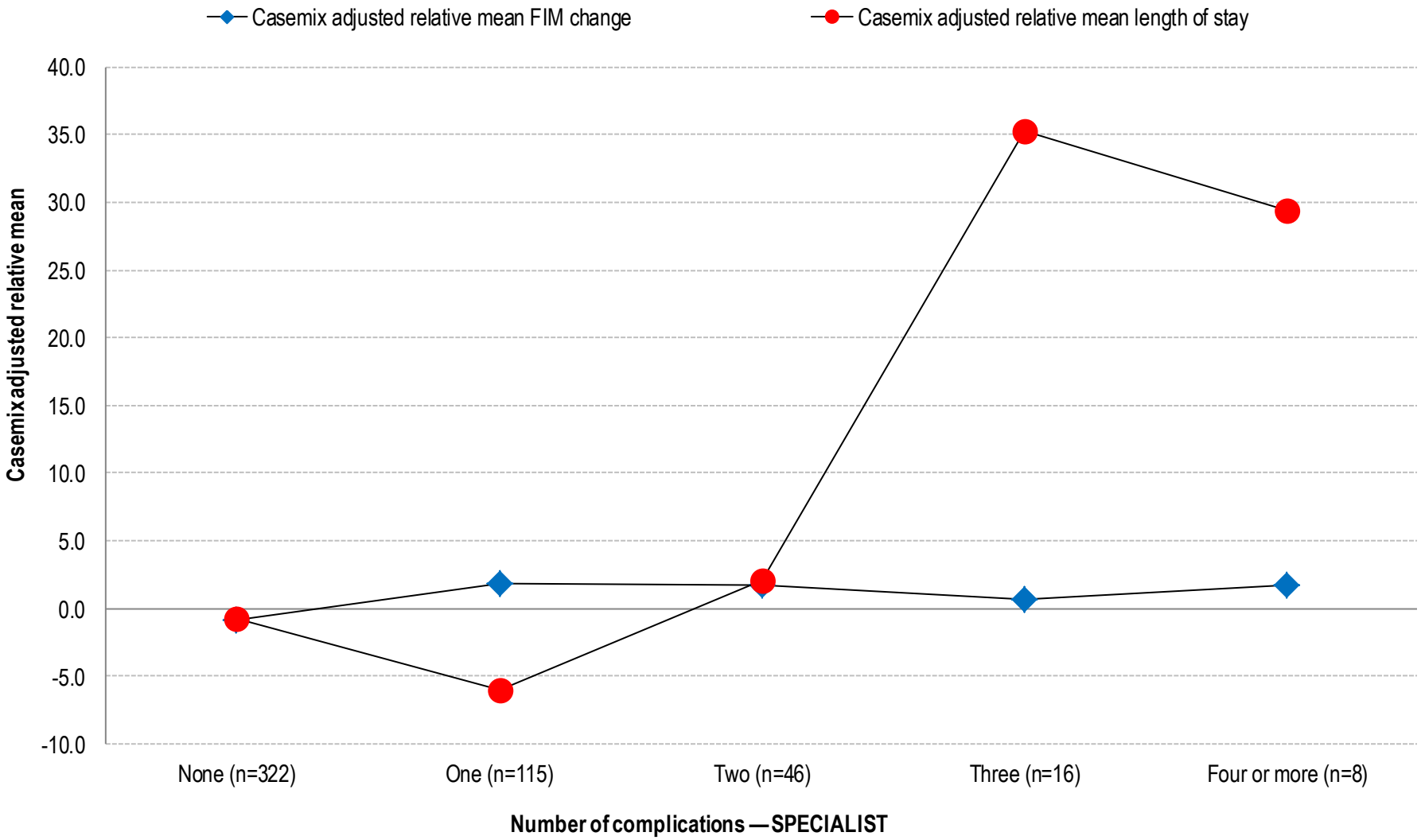
Casemix-adjusted* relative mean LOS and FIM change by type of comorbidity





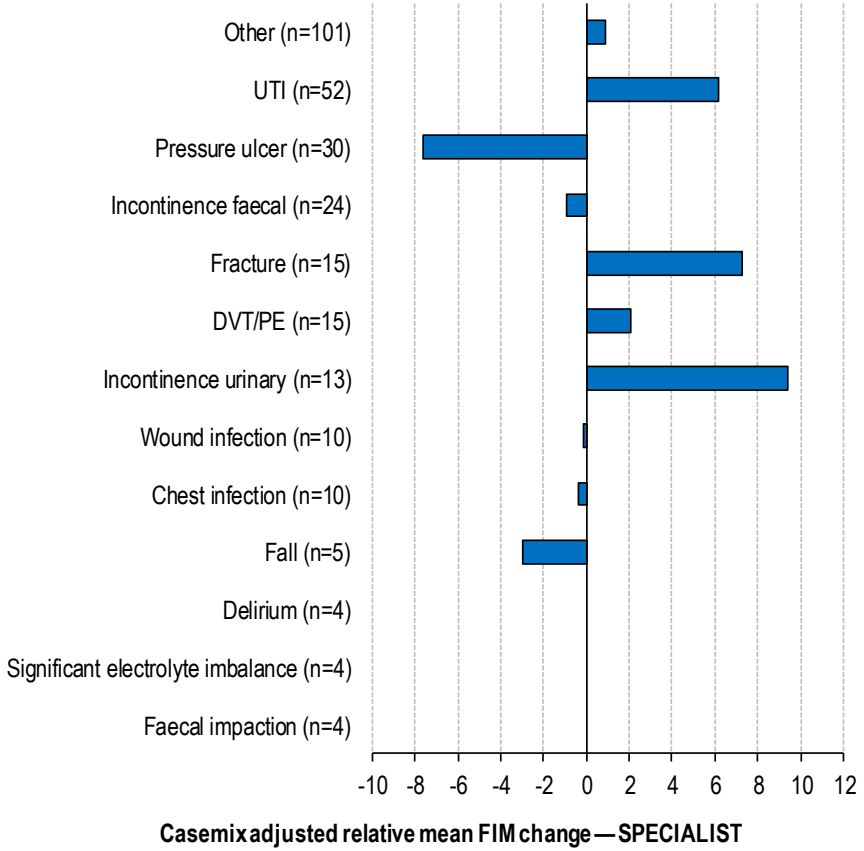
Casemix Adjustment is by CY2016 Specialist Units first admissions

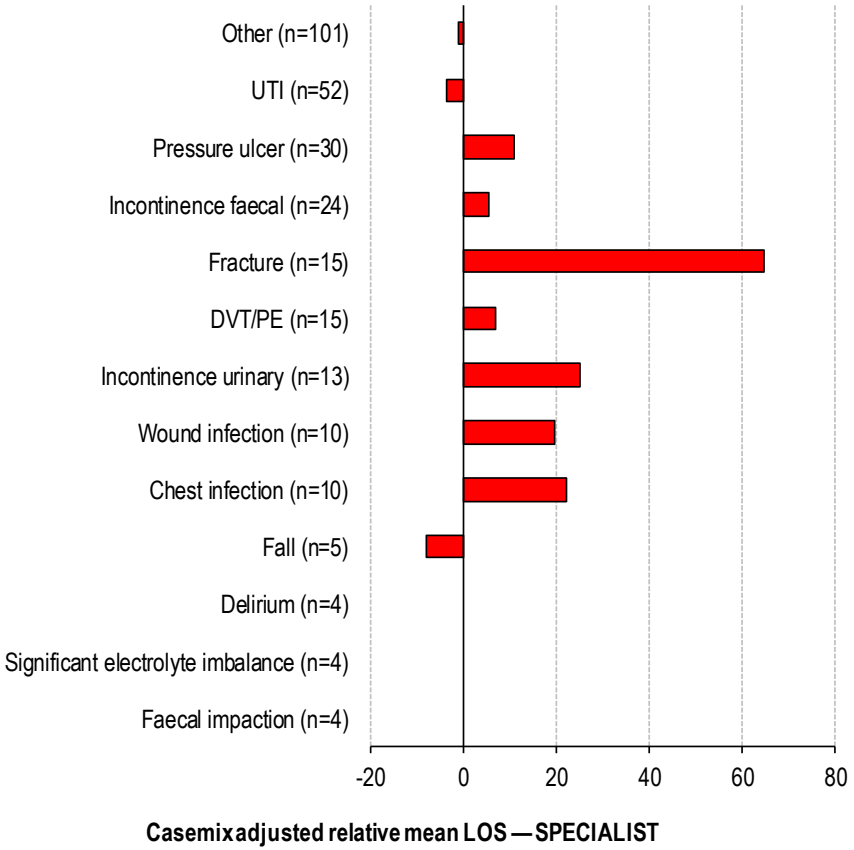
Casemix-adjusted* relative mean LOS and FIM change by number of complications



*Casemix Adjustment is by CY2016 Specialist Units first admissions

Casemix-adjusted* relative mean LOS and FIM change by type of complication

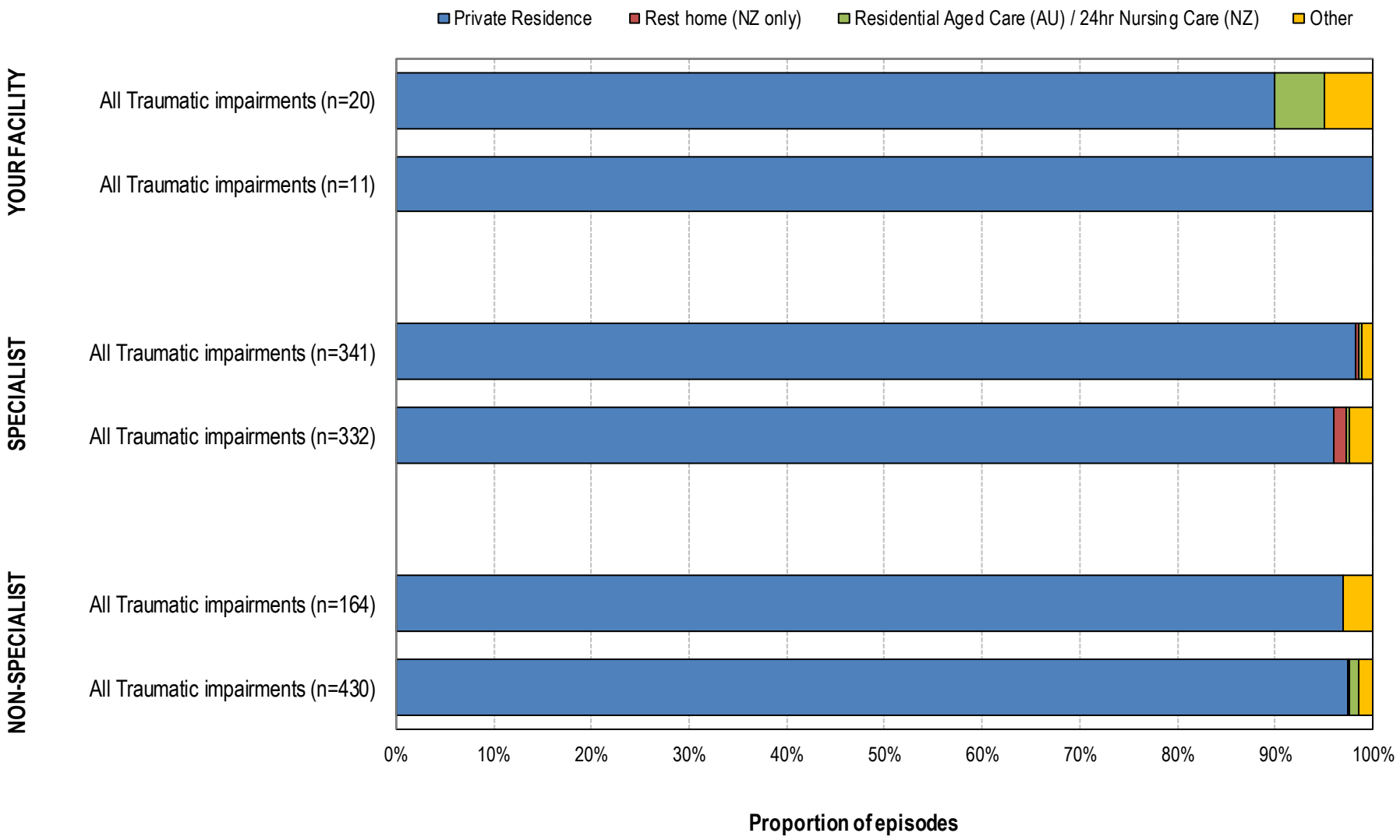




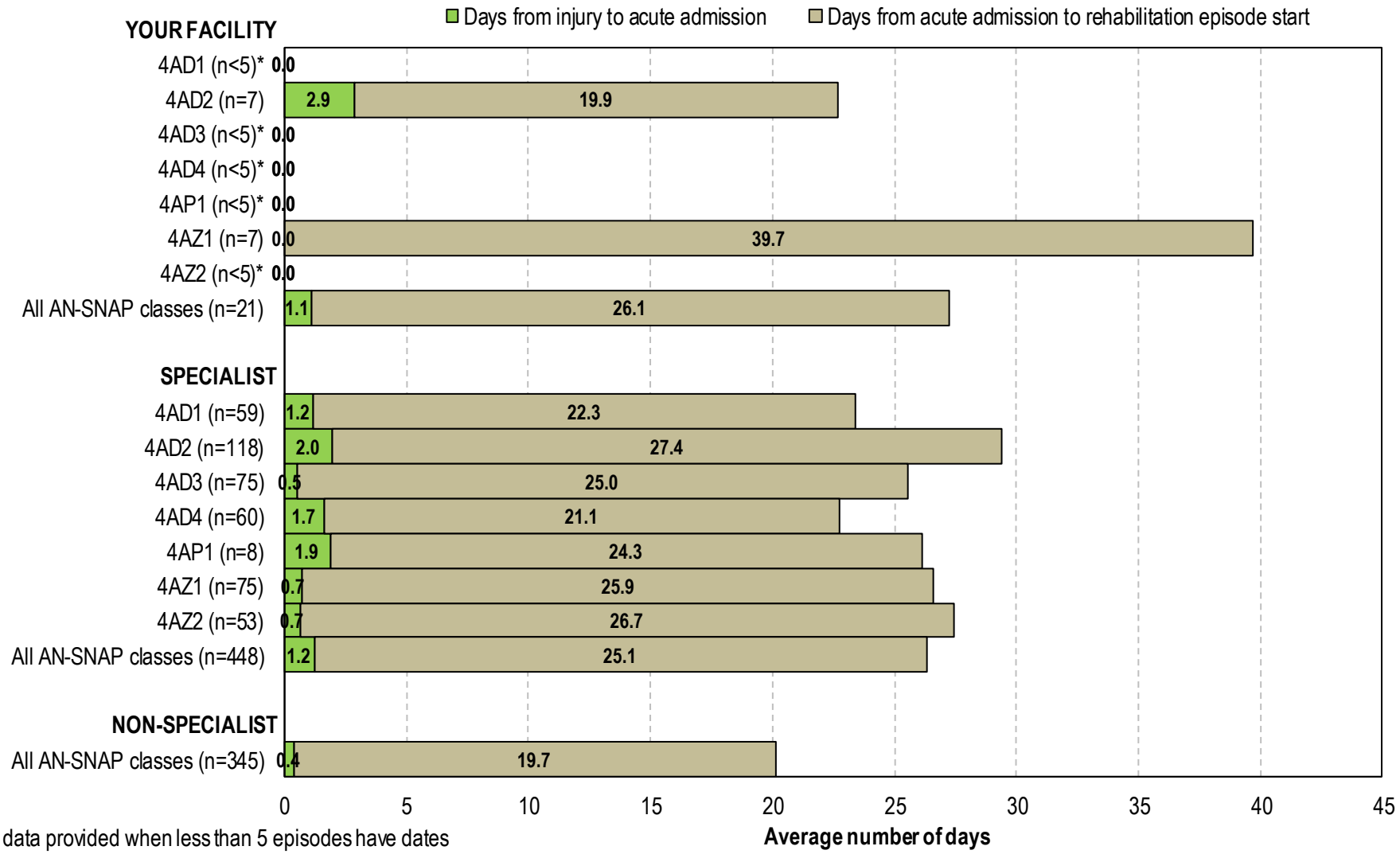
*Casemix Adjustment is by CY2016 Specialist Units first admissions

Explanatory Data

Type of accommodation prior to impairment



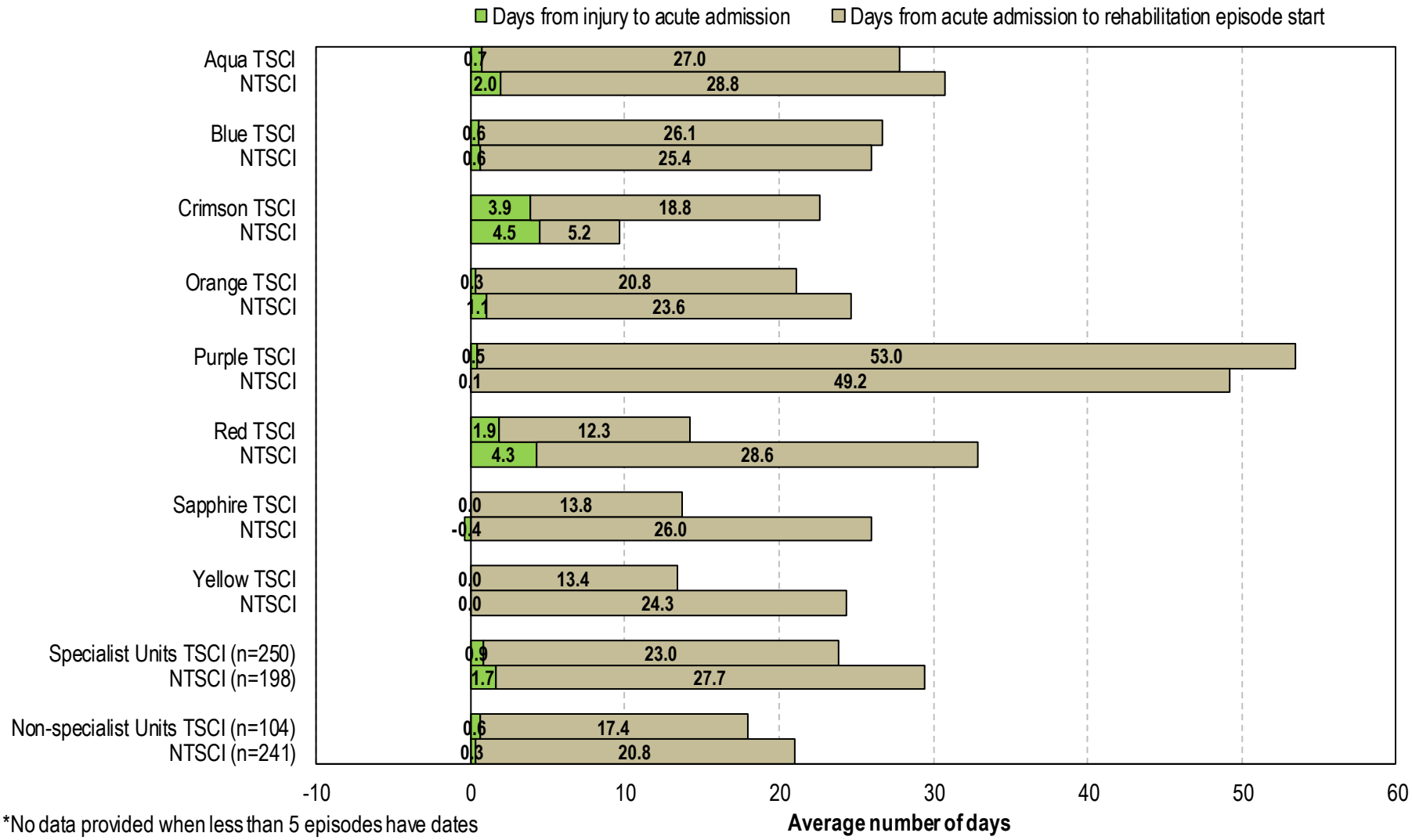
Days from injury to episode start with an acute admission by AN-SNAP class



*No data provided when less than 5 episodes have dates

Note: First admission episodes

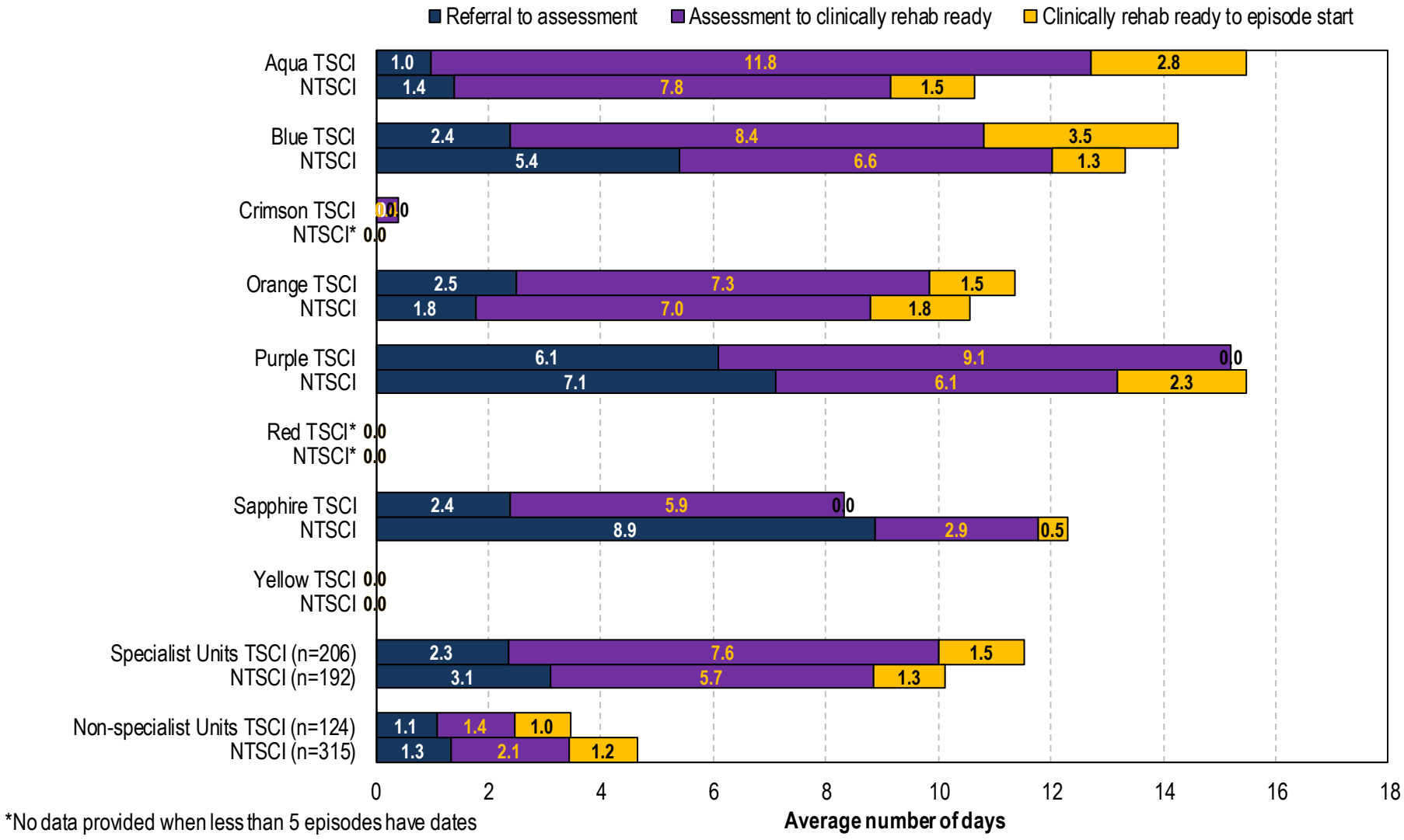
Days from injury to episode start with an acute admission by facility



*No data provided when less than 5 episodes have dates

Note: First admission episodes

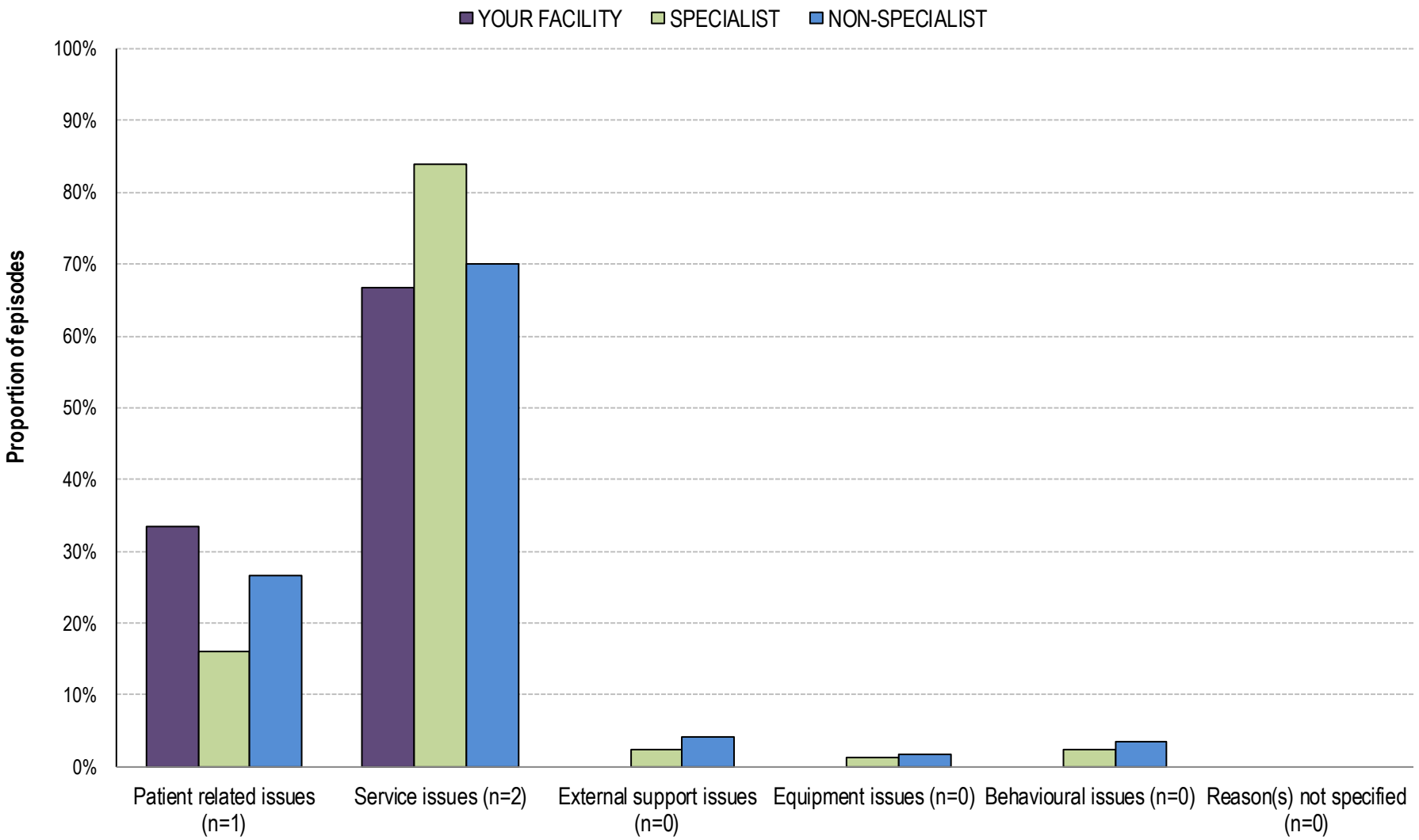
Days from referral to episode start by facility



*No data provided when less than 5 episodes have dates

Note: First admission episodes

Reason for delay in episode start

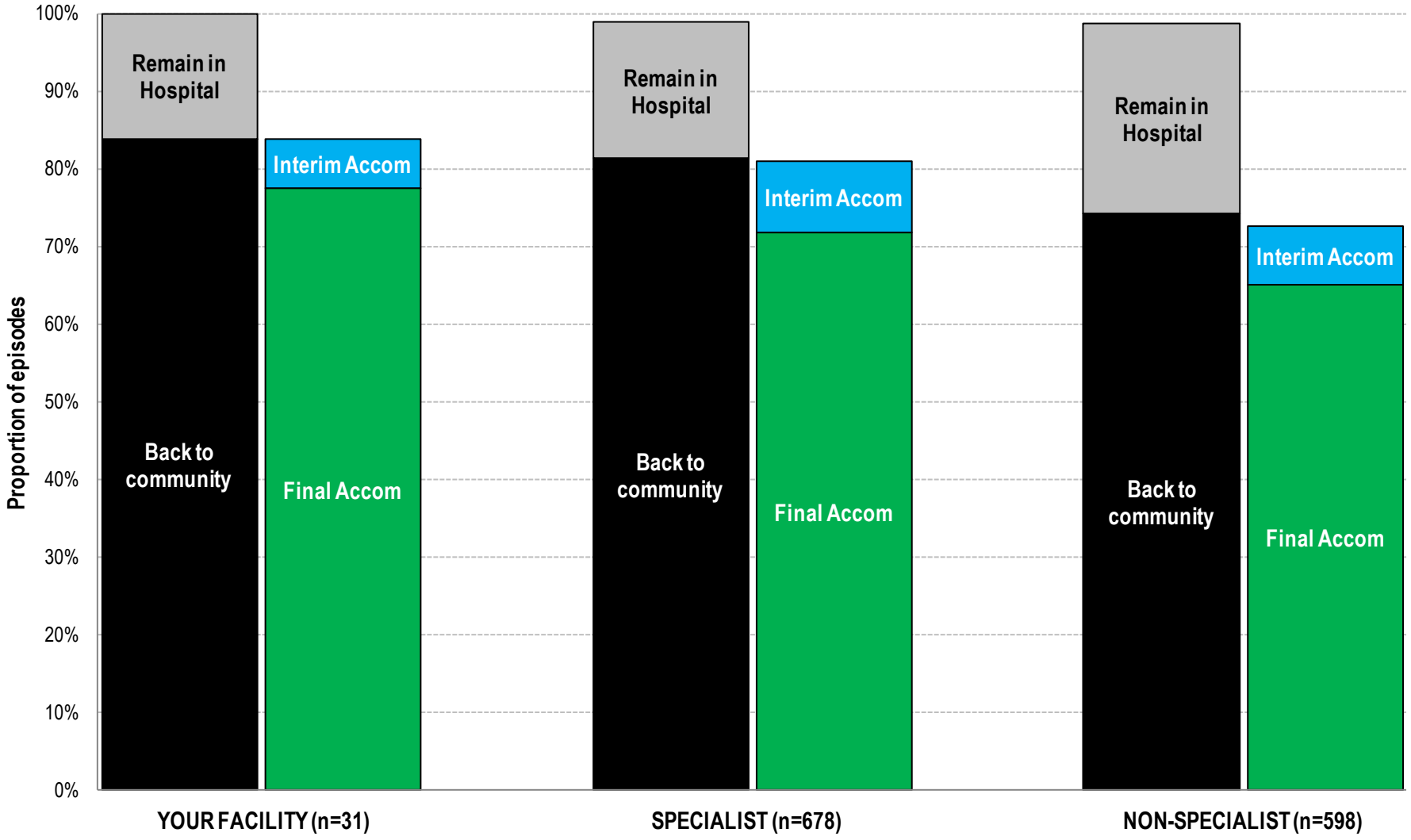


Delays in episode start

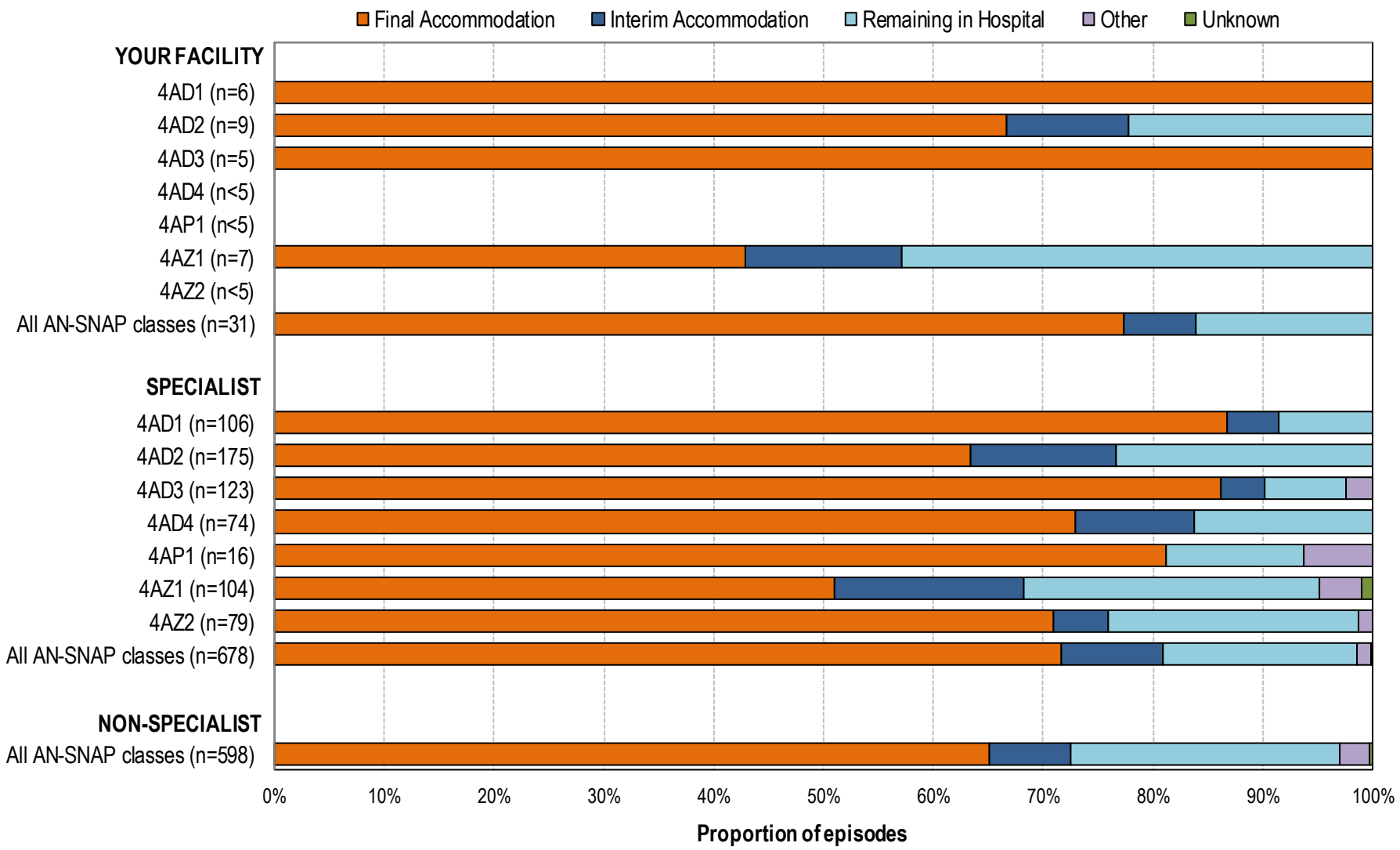
	YOUR FACILITY		SPECIALIST	
Delay in episode start	**No.**	**%**	**No.**	**%**
No delay	24	77.4	518	76.4
Delay in episode start	3	9.7	87	12.8
Missing	4		73	
All episodes in private residence	**31**	**100.0**	**678**	**100.0**

	YOUR FACILITY		SPECIALIST	
Delay in episode start	**No.**	**%**	**No.**	**%**
Patient related issues	1	33.3	14	16.1
Service issues	2	66.7	73	83.9
External support issues	0	0.0	2	2.3
Equipment issues	0	0.0	1	1.1
Behavioural issues	0	0.0	2	2.3
Reason(s) not specified	0	0.0	0	0.0

Discharge destination



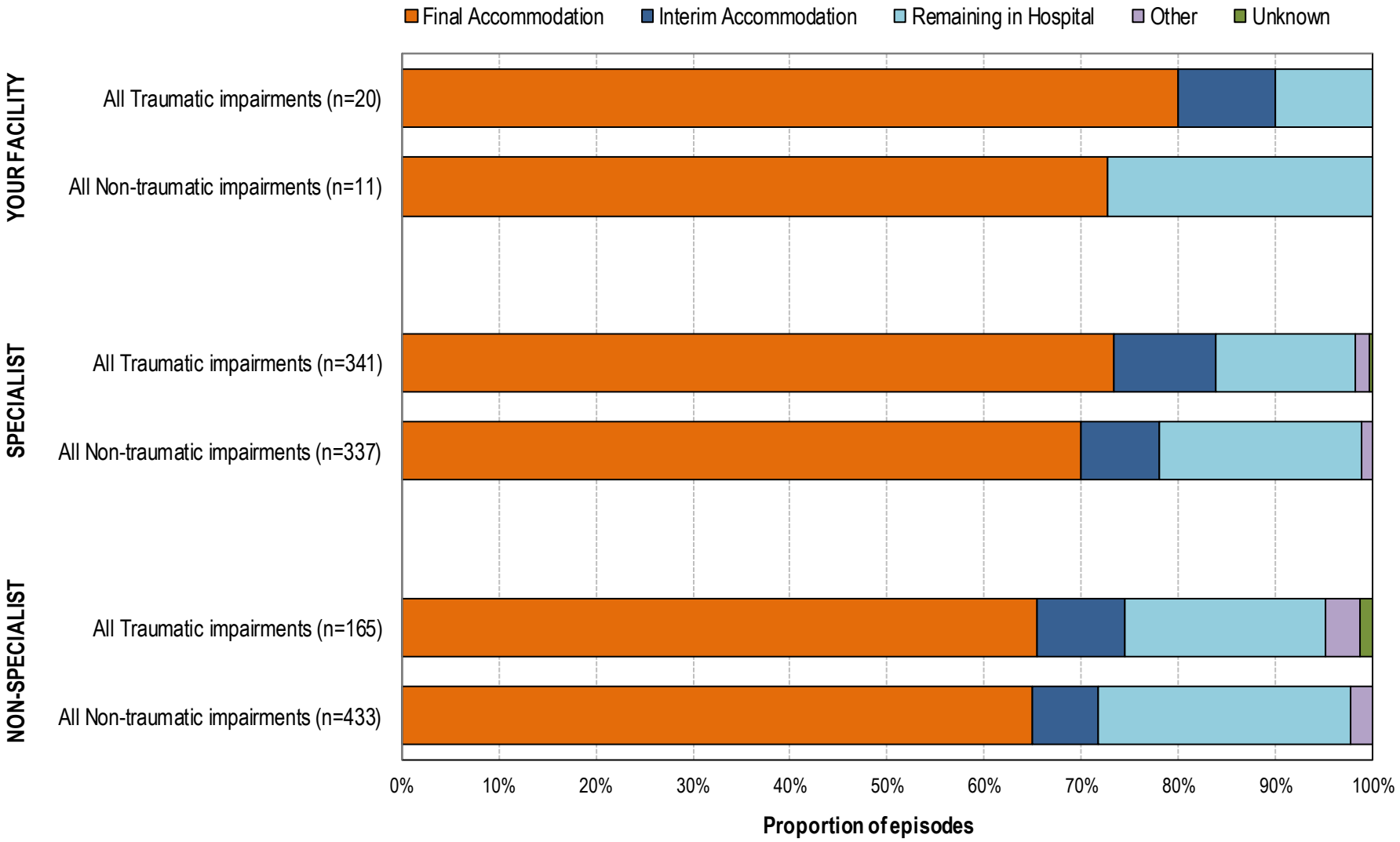
Mode of episode end by AN-SNAP class



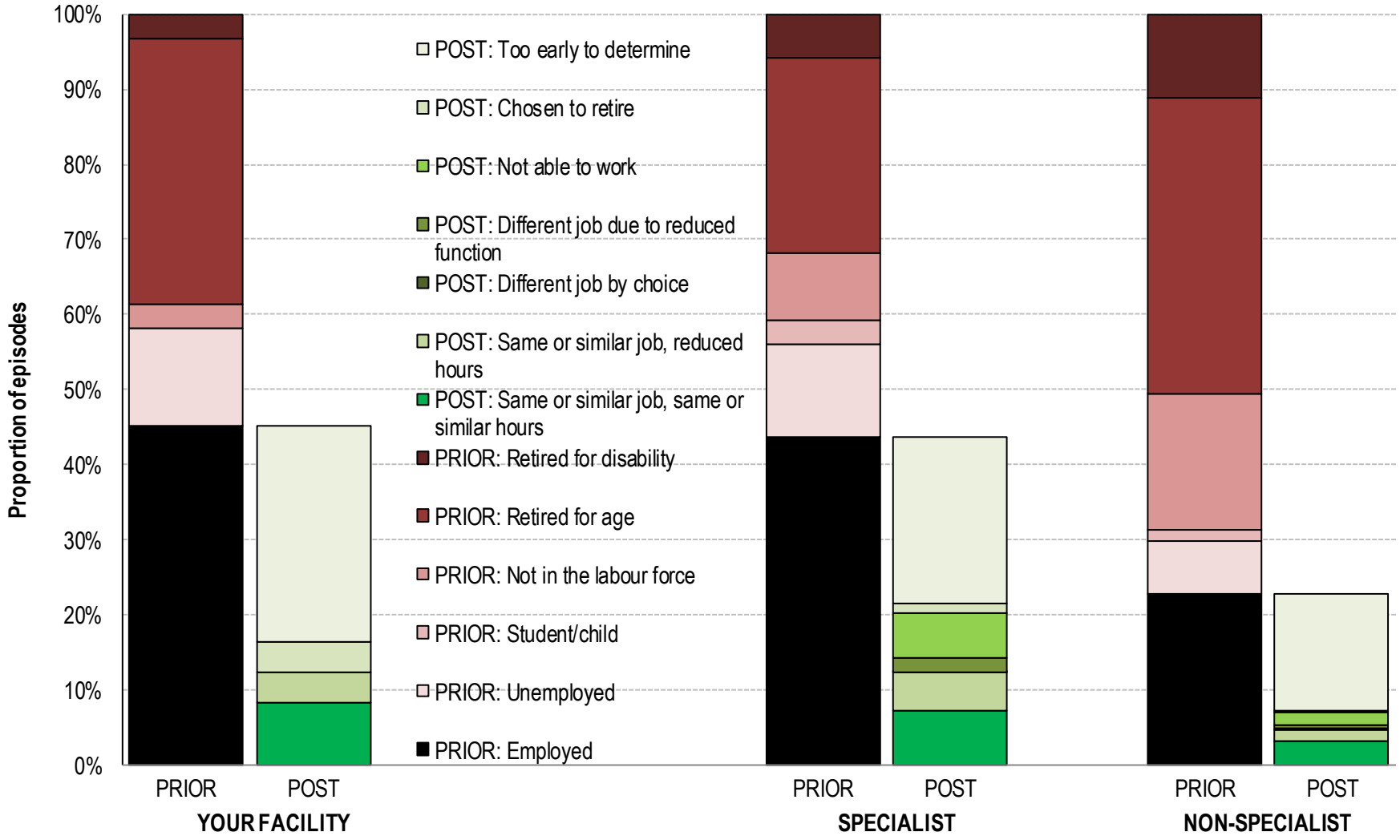
Discharge destination by AN-SNAP class

		Final Accom	Interim Accom	Remaining in Hospital	Other	Unknown	Final Accom	Interim Accom	Remaining in Hospital	Other	Unknown
AN-SNAP class				**No.**					**%**		
Your Facility	4AD1	6	0	0	0	0	100.0	0.0	0.0	0.0	0.0
	4AD2	6	1	2	0	0	66.7	11.1	22.2	0.0	0.0
	4AD3	5	0	0	0	0	100.0	0.0	0.0	0.0	0.0
	4AD4	1	0	0	0	0	100.0	0.0	0.0	0.0	0.0
	4AP1	1	0	0	0	0	100.0	0.0	0.0	0.0	0.0
	4AZ1	3	1	3	0	0	42.9	14.3	42.9	0.0	0.0
	4AZ2	2	0	0	0	0	100.0	0.0	0.0	0.0	0.0
All AN-SNAP classes		**24**	**2**	**5**	**0**	**0**	**77.4**	**6.5**	**16.1**	**0.0**	**0.0**
SPECIALIST Units		**486**	**63**	**119**	**9**	**1**	**71.7**	**9.3**	**17.6**	**1.3**	**0.1**
NON-SPECIALIST Units		**389**	**45**	**146**	**16**	**2**	**65.1**	**7.5**	**24.4**	**2.7**	**0.3**

Traumatic and non-traumatic mode of episode end



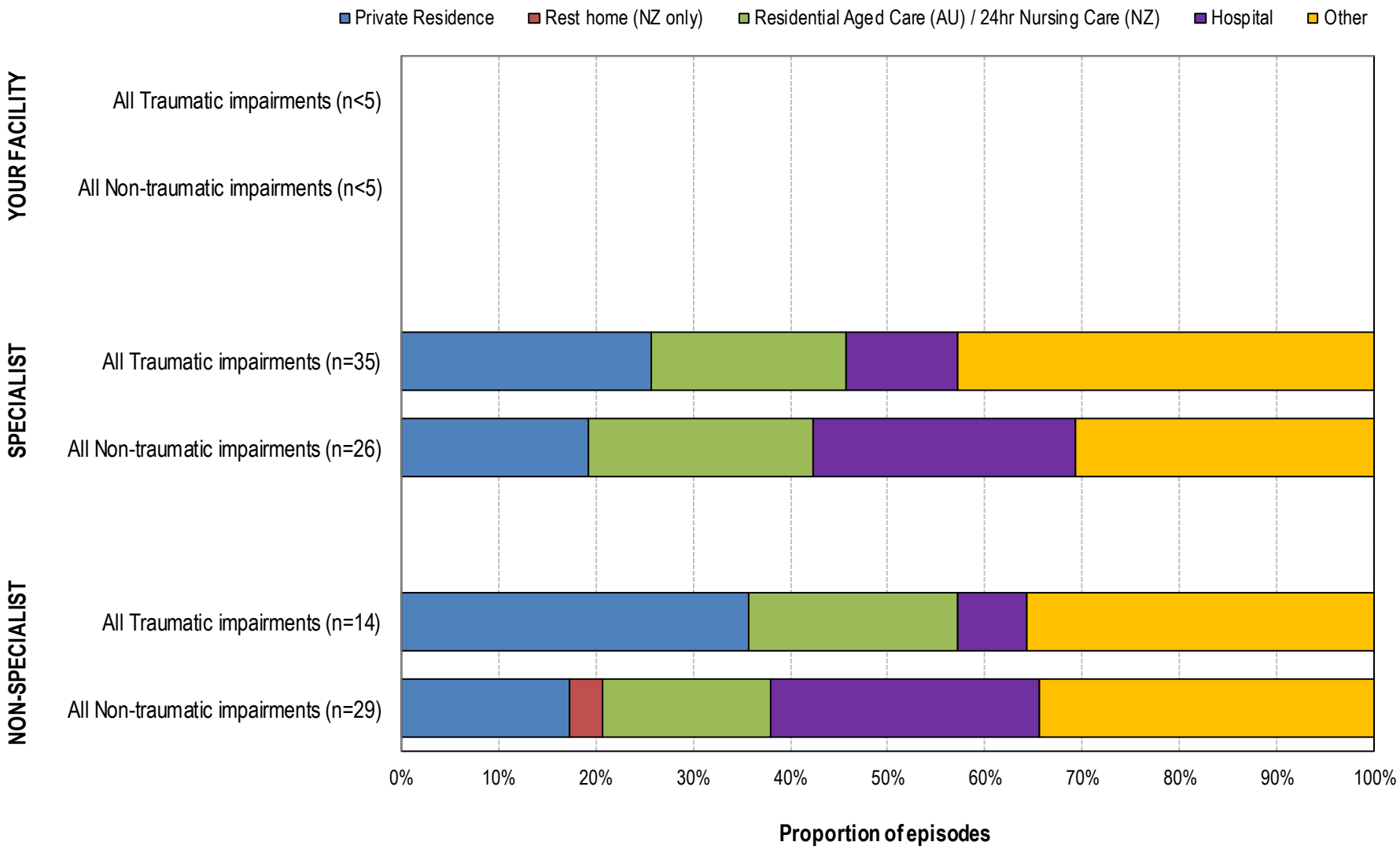
Employment status prior and post impairment



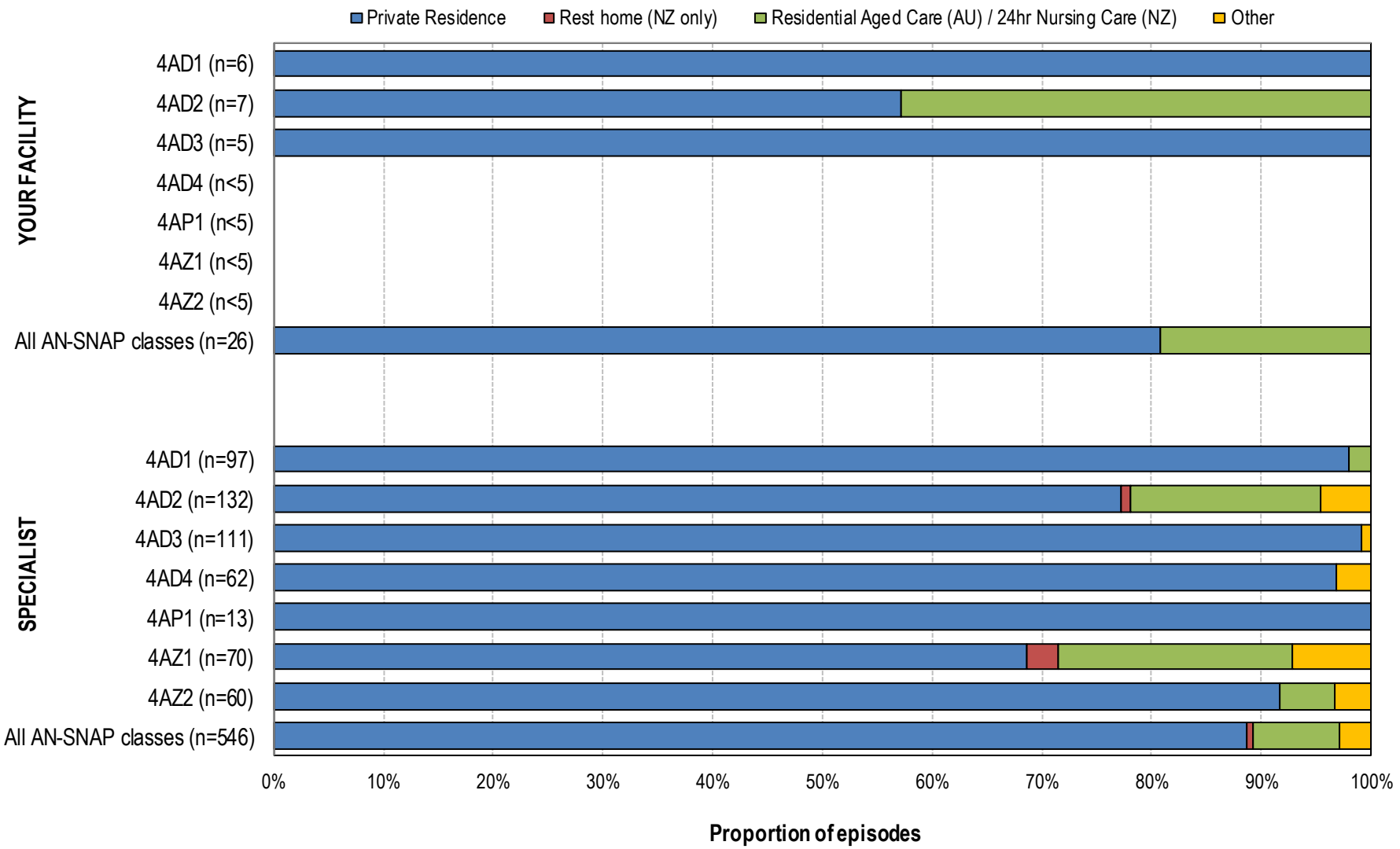
Employment status prior and post impairment

	YOUR FACILITY		SPECIALIST		NON-SPECIALIST	
Employment status	**No.**	**%**	**No.**	**%**	**No.**	**%**
Prior to this impairment:						
Employed	14	45.2	293	43.6	133	22.7
Unemployed	4	12.9	84	12.5	42	7.2
Student/child	0	0.0	21	3.1	8	1.4
Not in the labour force	1	3.2	60	8.9	107	18.3
Retired for age	11	35.5	175	26.0	231	39.4
Retired for disability	1	3.2	39	5.8	65	11.1
Not answered	0		6		12	
Total	**31**	**100.0**	**678**	**100.0**	**598**	**100.0**
After discharge (if previously employed):						
Same or similar job, same or similar hours	2	*18.2*	43	*16.5*	14	*13.6*
Same or similar job, reduced hours	1	*9.1*	30	*11.5*	7	*6.8*
Different job by choice	0	*0.0*	1	*0.4*	1	*1.0*
Different job due to reduced function	0	*0.0*	11	*4.2*	2	*1.9*
Not able to work	0	*0.0*	36	*13.8*	8	*7.8*
Chosen to retire	1	*9.1*	7	*2.7*	1	*1.0*
Too early to determine	7	*63.6*	133	*51.0*	70	*68.0*
Not answered	3		32		30	
Total employed prior	***14***	***100.0***	***293***	***100.0***	***133***	***100.0***

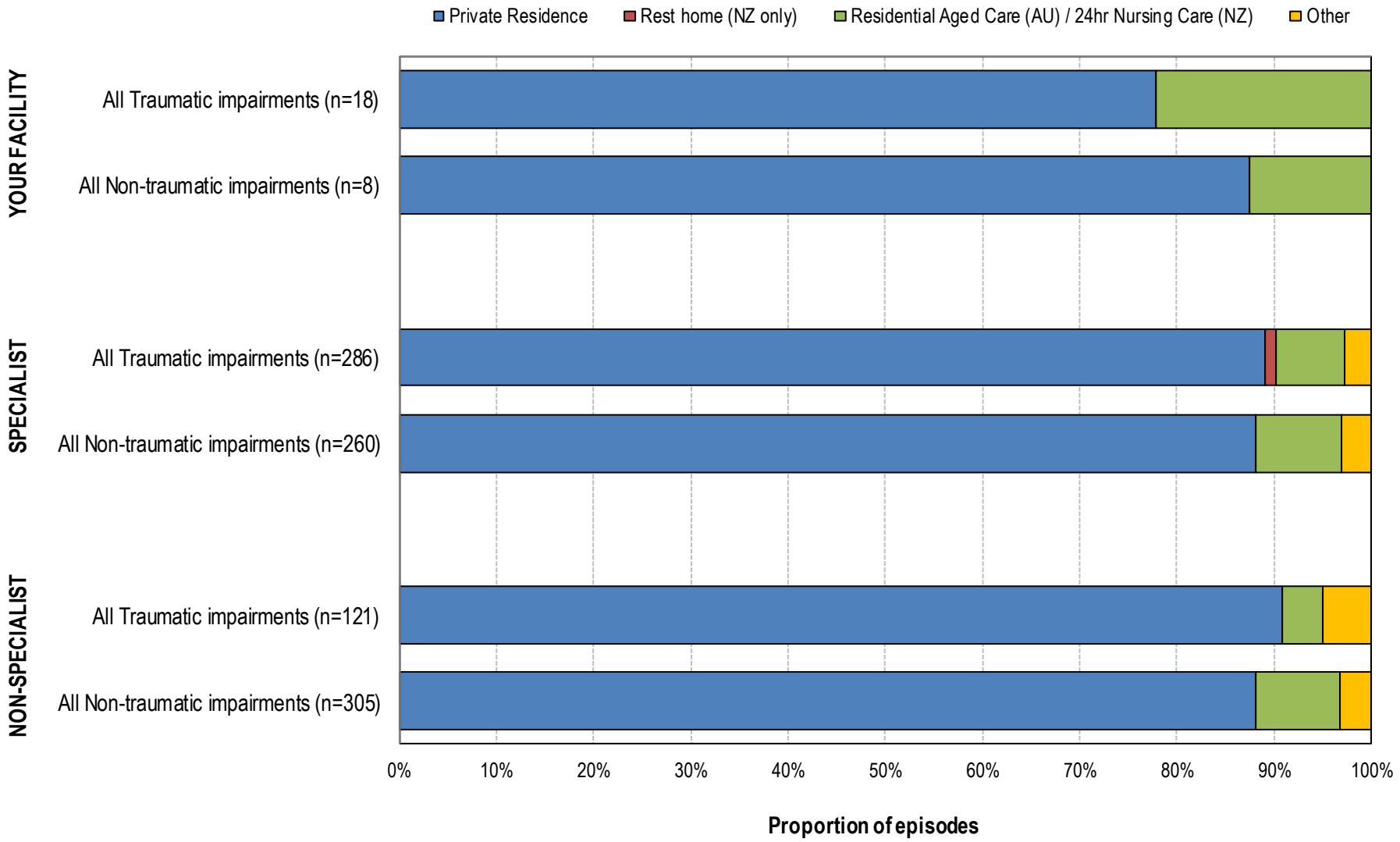
Traumatic and non-traumatic Interim accommodation post discharge



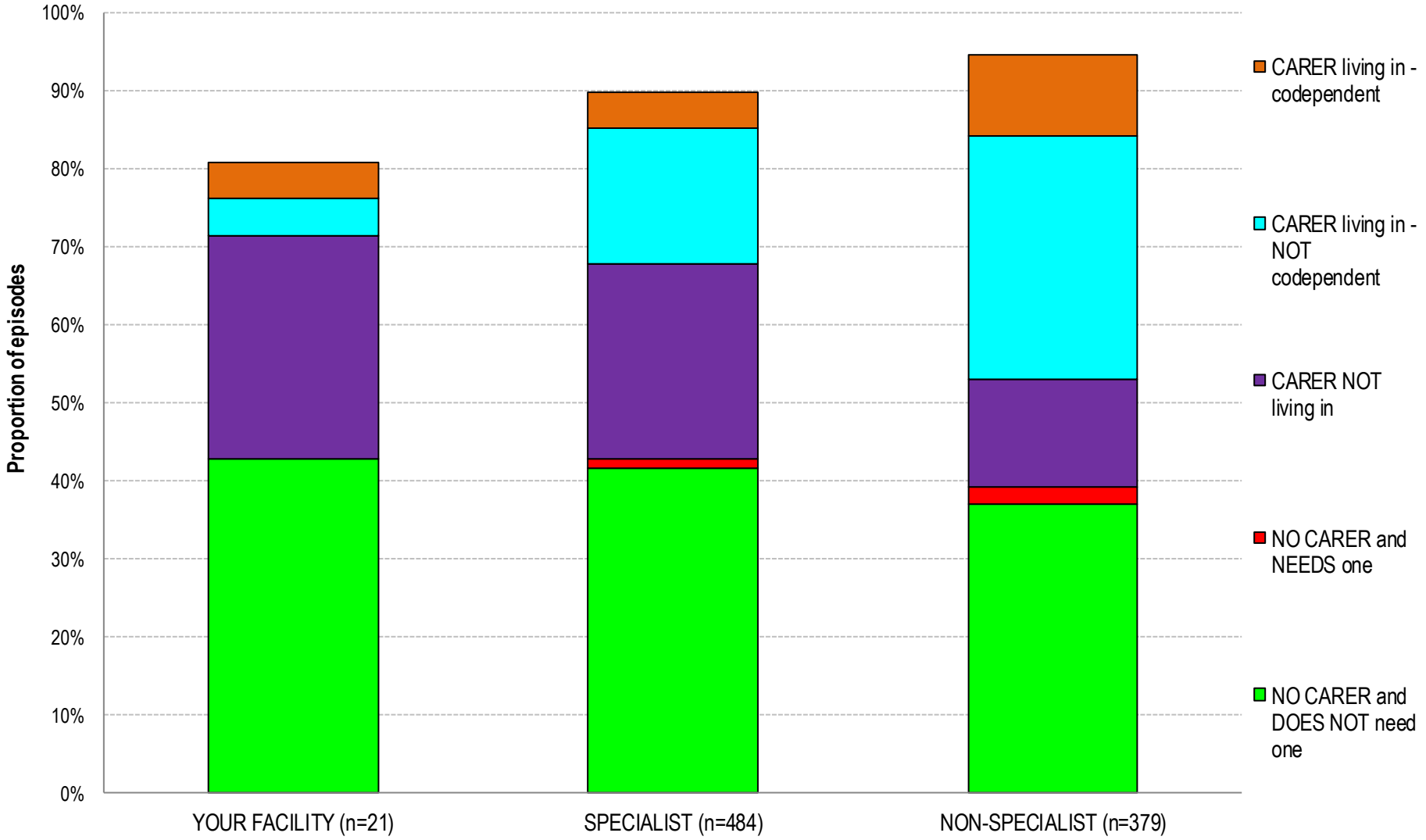
Final accommodation post discharge by AN-SNAP class



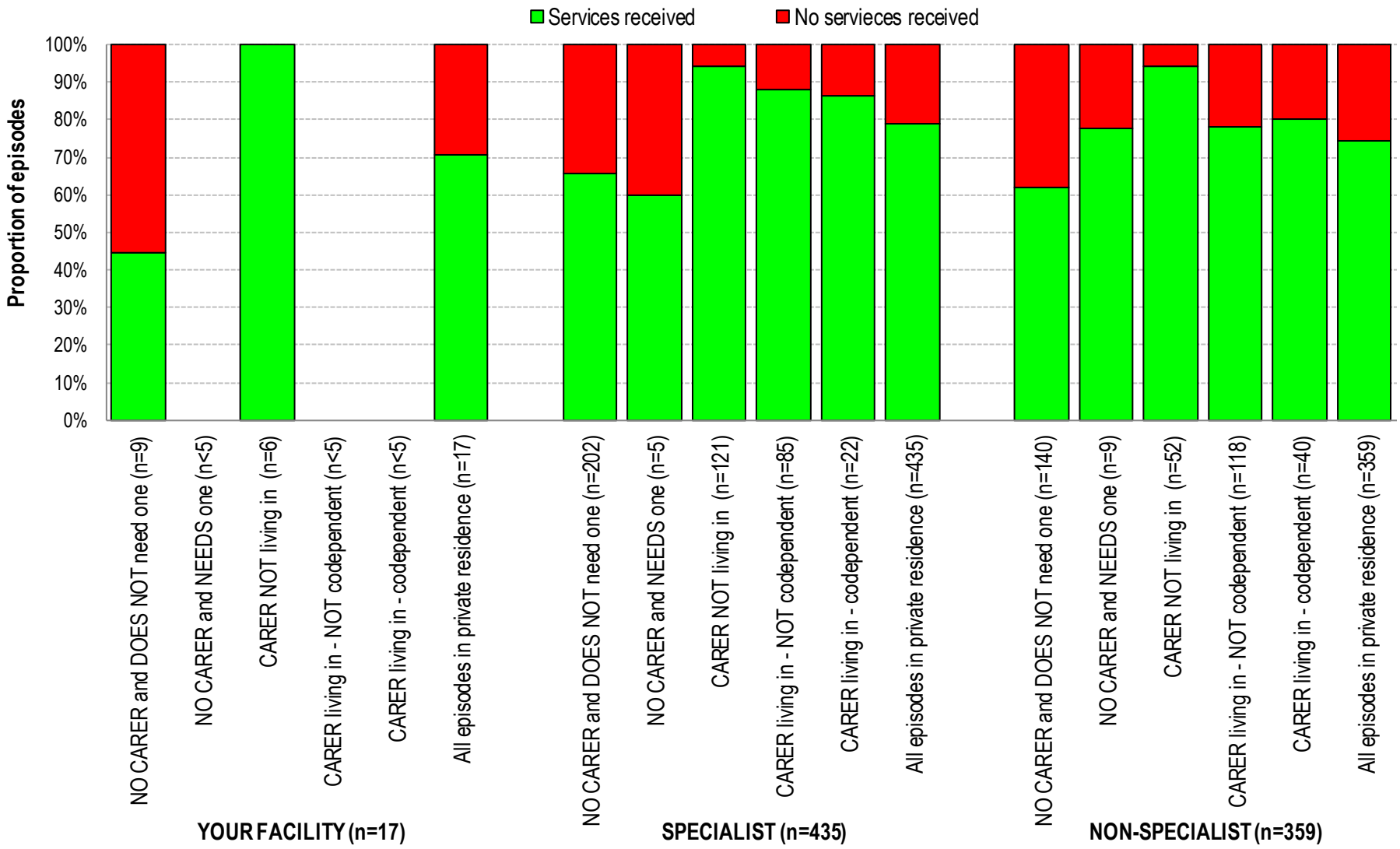
Traumatic and non-traumatic final accommodation post discharge



Carer status post discharge



Any services received post discharge by carer status

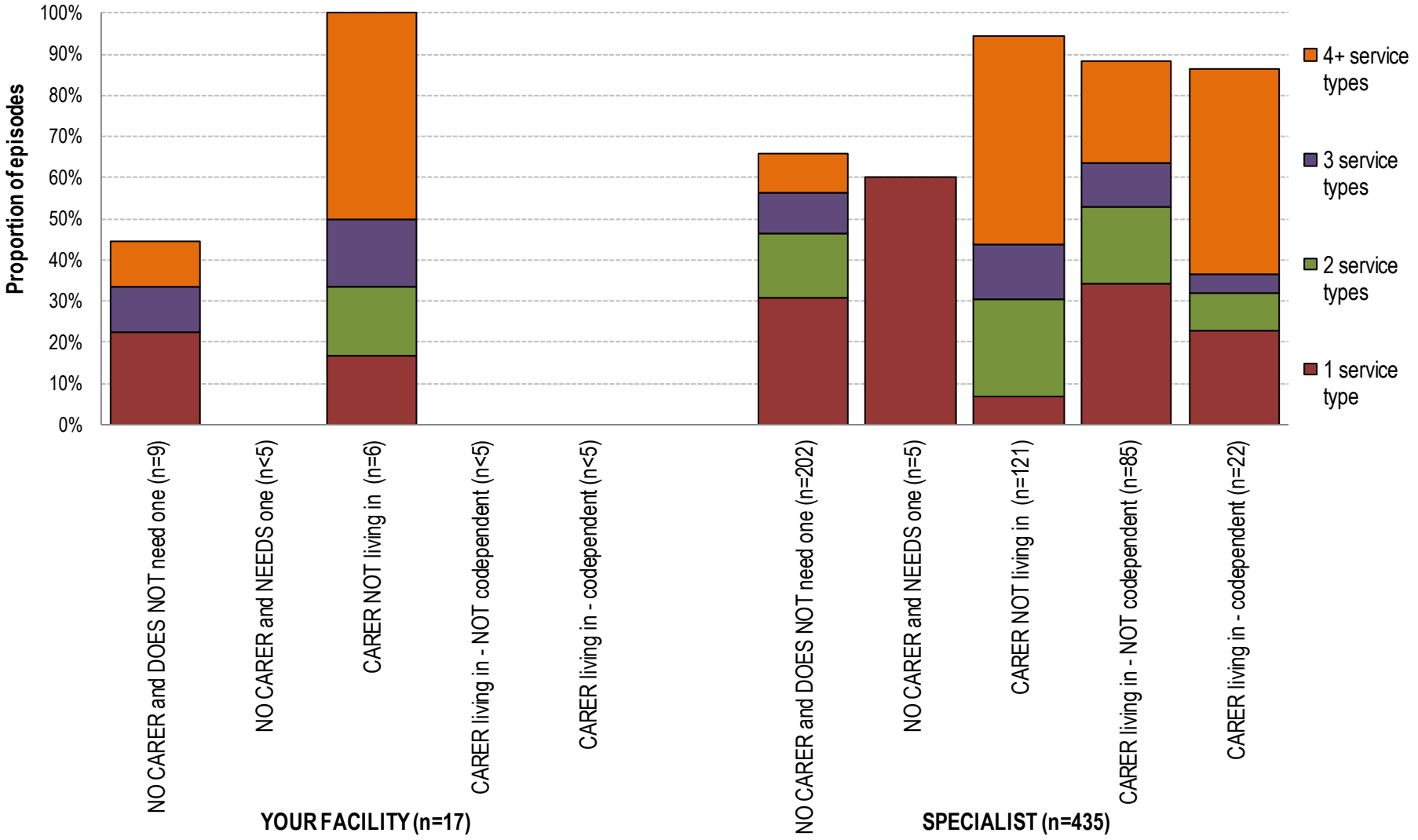


Carer status and any services received post discharge

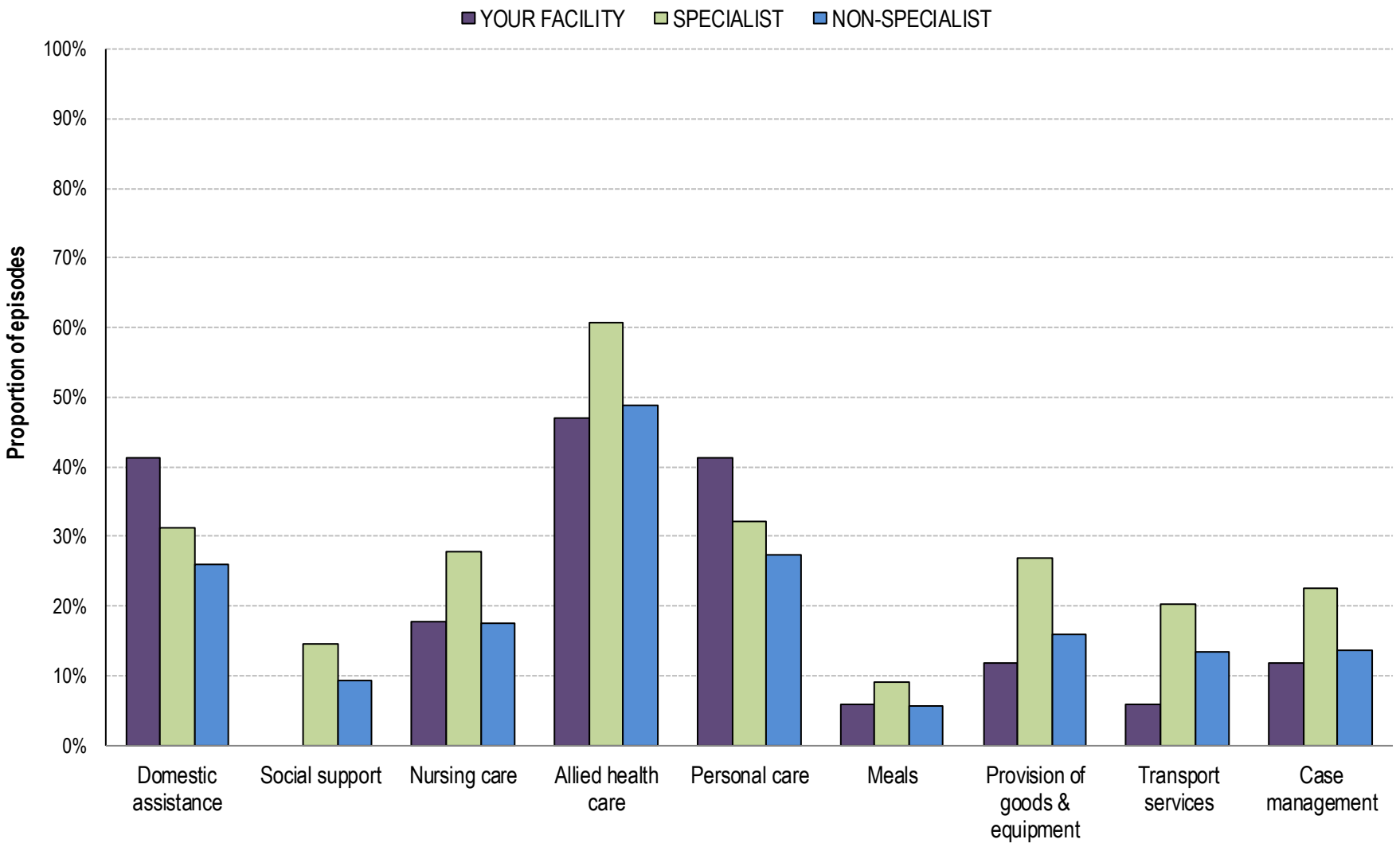
	YOUR FACILITY		SPECIALIST		NON-SPECIALIST	
Carer status post discharge	**No.**	**%**	**No.**	**%**	**No.**	**%**
NO CARER and DOES NOT need one	9	52.9	202	46.4	140	39.0
NO CARER and NEEDS one	0	0.0	5	1.1	9	2.5
CARER NOT living in	6	35.3	121	27.8	52	14.5
CARER living in - NOT codependent	1	5.9	85	19.5	118	32.9
CARER living in - codependent	1	5.9	22	5.1	40	11.1
Missing	4		49		20	
All episodes in private residence	**21**	**100.0**	**484**	**100.0**	**379**	**100.0**

	Any services received post discharge?					
	YOUR FACILITY		SPECIALIST		NON-SPECIALIST	
Carer status post discharge	**Yes (%)**	**No (%)**	**Yes (%)**	**No (%)**	**Yes (%)**	**No (%)**
NO CARER and DOES NOT need one	44.4	55.6	65.8	34.2	62.1	37.86
NO CARER and NEEDS one	0.0	0.0	60.0	40.0	77.8	22.22
CARER NOT living in	100.0	0.0	94.2	5.8	94.2	5.77
CARER living in - NOT codependent	100.0	0.0	88.2	11.8	78.0	22.03
CARER living in - codependent	100.0	0.0	86.4	13.6	80.0	20.00
All episodes in private residence	**70.6**	**29.4**	**79.1**	**20.9**	**74.4**	**25.6**

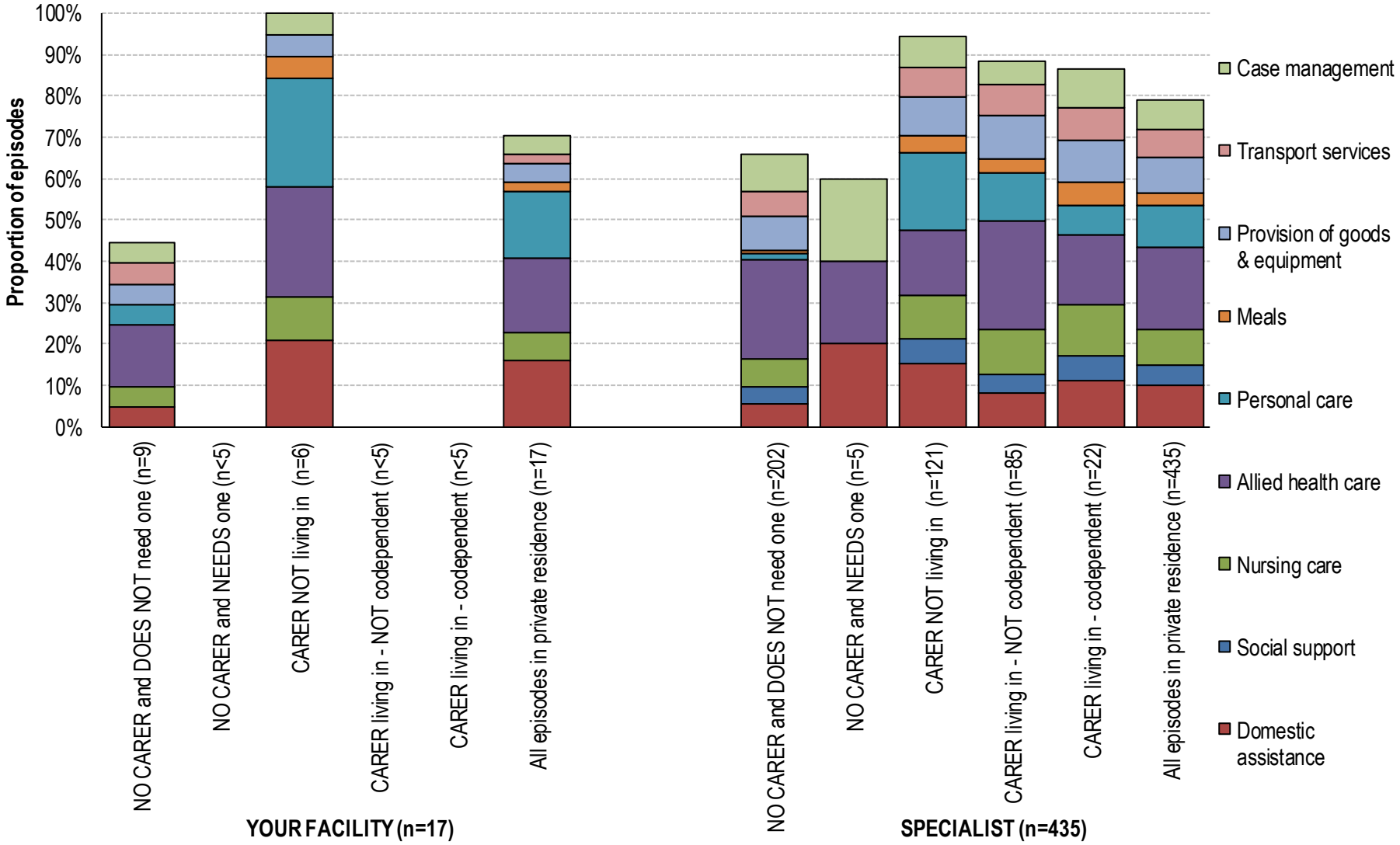
Number of services received post discharge by carer status



Type of services received post discharge



Type of services received post discharge by carer status



Number and type of services received post Discharge by carer status – YOUR FACILITY

Services received post discharge (NOTE: Discharge to private residence)	Carer status post discharge - YOUR FACILITY					
	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	9	0	6	1	1	
Percent of episodes receiving:						
No services	55.6	—	0.0	0.0	0.0	**29.4**
1 service type	22.2	—	16.7	0.0	100.0	**23.5**
2 service types	0.0	—	16.7	100.0	0.0	**11.8**
3 service types	11.1	—	16.7	0.0	0.0	**11.8**
4 or more service types	11.1	—	50.0	0.0	0.0	**23.5**
Service Type received						
Domestic assistance	11.1	—	66.7	100.0	100.0	**0.4**
Social support	0.0	—	0.0	0.0	0.0	**0.0**
Nursing care	11.1	—	33.3	0.0	0.0	**0.2**
Allied health care	33.3	—	83.3	0.0	0.0	**0.5**
Personal care	11.1	—	83.3	100.0	0.0	**0.4**
Meals	0.0	—	16.7	0.0	0.0	**0.1**
Provision of goods & equipment	11.1	—	16.7	0.0	0.0	**0.1**
Transport services	11.1	—	0.0	0.0	0.0	**0.1**
Case management	11.1	—	16.7	0.0	0.0	**0.1**

Number and type of services received post Discharge by carer status – SPECIALIST

Services received post discharge (NOTE: Discharge to private residence)	Carer status post discharge - SPECIALIST					
	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	202	5	121	85	22	
Percent of episodes receiving:						
No services	34.2	40.0	5.8	11.8	13.6	**20.9**
1 service type	30.7	60.0	6.6	34.1	22.7	**24.6**
2 service types	15.3	0.0	24.0	18.8	9.1	**17.9**
3 service types	9.9	0.0	13.2	10.6	4.5	**10.6**
4 or more service types	9.4	0.0	50.4	24.7	50.0	**25.7**
Service Type received						
Domestic assistance	11.9	20.0	66.9	23.5	45.5	**0.3**
Social support	8.4	0.0	24.8	12.9	22.7	**0.1**
Nursing care	13.9	0.0	45.5	31.8	50.0	**0.3**
Allied health care	50.0	20.0	68.6	75.3	68.2	**0.6**
Personal care	3.5	0.0	81.8	32.9	27.3	**0.3**
Meals	1.5	0.0	18.2	10.6	22.7	**0.1**
Provision of goods & equipment	17.3	0.0	39.7	29.4	40.9	**0.3**
Transport services	12.4	0.0	30.6	22.4	31.8	**0.2**
Case management	18.3	20.0	32.2	15.3	36.4	**0.2**

Number and type of services received post Discharge by carer status – NON-SPECIALIST

Services received post discharge (NOTE: Discharge to private residence)	Carer status post discharge - NON-SPECIALIST					
	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	140	9	52	118	40	
Percent of episodes receiving:						
No services	37.9	22.2	5.8	22.0	20.0	**25.6**
1 service type	32.1	44.4	26.9	29.7	37.5	**31.5**
2 service types	14.3	11.1	15.4	15.3	32.5	**16.7**
3 service types	9.3	0.0	17.3	15.3	0.0	**11.1**
4 or more service types	6.4	22.2	34.6	16.9	10.0	**14.8**
Service Type received						
Domestic assistance	22.1	22.2	44.2	23.7	22.5	**0.3**
Social support	4.3	0.0	9.6	16.9	5.0	**0.1**
Nursing care	10.7	0.0	26.9	24.6	12.5	**0.2**
Allied health care	41.4	44.4	50.0	55.1	55.0	**0.5**
Personal care	10.7	11.1	61.5	34.7	22.5	**0.3**
Meals	1.4	0.0	13.5	8.5	2.5	**0.1**
Provision of goods & equipment	8.6	33.3	32.7	16.9	12.5	**0.2**
Transport services	8.6	22.2	23.1	13.6	15.0	**0.1**
Case management	9.3	22.2	26.9	13.6	10.0	**0.1**

Spinal Cord Dysfunction Specific Data

AIS grade at admission and discharge at SPECIALIST units – Traumatic

Begin	Primary admission		Subsequent admission		All admissions	
AIS grade	Episodes	%	Episodes	%	Episodes	%
A	103	35.6	15	53.6	118	37.2
B	20	6.9	4	14.3	24	7.6
C	60	20.8	4	14.3	64	20.2
D	106	36.7	5	17.9	111	35.0

End	Primary admission		Subsequent admission		All admissions	
AIS grade	Episodes	%	Episodes	%	Episodes	%
A	85	29.8	15	53.6	100	31.9
B	22	7.7	4	14.3	26	8.3
C	36	12.6	4	14.3	40	12.8
D	142	49.8	5	17.9	147	47.0

Note 1: 0 episode(s) did not record admission status.

Note 2: 26 episode(s) did not record AIS scores.

AIS grade at admission and discharge at NON-SPECIALIST units – Traumatic

Begin	Primary admission		Subsequent admission		All admissions	
AIS grade	Episodes	%	Episodes	%	Episodes	%
A	19	28.8	0	0.0	19	25.7
B	7	10.6	1	12.5	8	10.8
C	22	33.3	5	62.5	27	36.5
D	18	27.3	2	25.0	20	27.0

End	Primary admission		Subsequent admission		All admissions	
AIS grade	Episodes	%	Episodes	%	Episodes	%
A	18	28.1	0	0.0	18	25.0
B	7	10.9	1	12.5	8	11.1
C	16	25.0	2	25.0	18	25.0
D	23	35.9	5	62.5	28	38.9

Note 1: 1 episode(s) did not record admission status.

Note 2: 91 episode(s) did not record AIS scores.

Change in AIS grade from admission to discharge – Traumatic

Admission AIS grade	Discharge AIS grade - SPECIALIST				Discharge AIS grade - NON-SPECIALIST			
	A	B	C	D	A	B	C	D
A	100	7	4	5	18	0	1	0
B	0	19	2	3	0	8	0	0
C	0	0	34	30	0	0	17	9
D	0	0	0	109	0	0	0	19

Note: 26 SPECIALIST and 91 NON-SPECIALIST episode(s) did not record AIS scores.

Change in level of TSCI from admission to discharge - SPECIALIST

Admission	Discharge level of injury																												
Level of injury	C1	C2	C3	C4	C5	C6	C7	C8	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	L1	L2	L3	L4	L5	S1	S2	S3	S4	S5
C1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C2	0	14	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C3	1	0	19	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C4	0	0	7	46	7	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C5	0	0	0	1	11	3	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C6	0	0	1	1	0	17	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7	0	0	0	0	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
C8	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T3	0	0	0	0	0	0	0	0	0	0	7	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
T4	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T5	0	0	0	0	0	0	0	0	0	0	0	0	5	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6	0	0	0	0	0	0	0	0	0	0	0	1	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
T9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0
T10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	9	1	1	1	0	0	0	0	0	0	0	0	0
T11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	5	5	0	0	0	0	0	0	0	0	0	0
T12	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	13	0	0	1	0	0	0	0	0	0	0
L1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	1	0	0
L2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0
L3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
L4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
L5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
S1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
S2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
S4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Change in level of TSCI from admission to discharge – NON-SPECIALIST

Admission	Discharge level of injury																												
Level of injury	C1	C2	C3	C4	C5	C6	C7	C8	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	L1	L2	L3	L4	L5	S1	S2	S3	S4	S5
C1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C3	0	0	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
C4	0	0	1	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C5	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C6	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T4	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T5	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T6	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
T10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
T11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
T12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
L1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
L2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
L3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0
L4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
L5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
S1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
S2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ventilator dependent – Traumatic

Completed ventilator data item - SPECIALIST	287
No. ventilator dependent	2
Completed ventilator data item - NON-SPECIALIST	73
No. ventilator dependent	0

Appendix 1: Glossary

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 4, introduced in July 2016 and used in these reports, uses the episode's impairment, age, weighted FIM motor admission score and FIM cognition score to determine which of 50 inpatient (admitted overnight adult) rehabilitation classes the episode should be assigned to.

Between AN-SNAP V3 and V4 there have been some minor refinements to the positioning of age and FIM score splits, however the greatest change has been the introduction of impairment-specific weights to FIM item scores in the calculation of a motor score, the introduction of reconditioning only classes and the removal of orthopaedic replacement classes (now grouped with all other orthopaedic conditions). 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 V4 please refer to the AROC website.

AROC

The Australasian Rehabilitation Outcomes Centre (AROC) was established in 2002 and current membership encompasses close to 100% of all Australian and New Zealand rehabilitation facilities. Facilities 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. The benchmark data set is all episodes during the reporting period in the AROC database.

Glossary … continued

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:

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

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

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

Complete/incomplete episode

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

Glossary … continued

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.

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*

Glossary … continued

Data quality score

The data quality 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).

Glossary … continued

Impairment-specific weighted FIM motor scores

Impairment-specific weighted FIM motor scores are new to the inpatient (admitted overnight adult) rehabilitation AN-SNAP V4 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 Major Multiple Trauma (MMT) where there were too few episodes to develop relative weights and so 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

Glossary … continued

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.

Glossary … continued

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

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

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

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

Submitted versus reporting episodes

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

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

Glossary … continued

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.

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.

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 6 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 Orthopaedic fractures

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 Orthopaedic fractures

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)

AROC impairment codes…continued

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

Appendix 3: AN-SNAP V4 overnight rehabilitation classes (pathway 3)

Class	Description of AN-SNAP class
4AZ1	Weighted FIM motor score 13-18, Brain, Spine, MMT, Age ≥ 49
4AZ2	Weighted FIM motor score 13-18, Brain, Spine, MMT, Age ≤ 48
4AZ3	Weighted FIM motor score 13-18, All other impairments, Age ≥ 65
4AZ4	Weighted FIM motor score 13-18, All other impairments, Age ≤ 64
4AA1	Stroke, weighted FIM motor 51-91, FIM cognition 29-35
4AA2	Stroke, weighted FIM motor 51-91, FIM cognition 19-28
4AA3	Stroke, weighted FIM motor 51-91, FIM cognition 5-18
4AA4	Stroke, weighted FIM motor 36-50, Age ≥ 68
4AA5	Stroke, weighted FIM motor 36-50, Age ≤ 67
4AA6	Stroke, weighted FIM motor 19-35, Age ≥ 68
4AA7	Stroke, weighted FIM motor 19-35, Age ≤ 67
4AB1	Brain dysfunction, weighted FIM motor 71-91, FIM cognition 26-35
4AB2	Brain dysfunction, weighted FIM motor 71-91, FIM cognition 5-25
4AB3	Brain dysfunction, weighted FIM motor 41-70, FIM cognition 26-35
4AB4	Brain dysfunction, weighted FIM motor 41-70, FIM cognition 17-25
4AB5	Brain dysfunction, weighted FIM motor 41-70, FIM cognition 5-16
4AB6	Brain dysfunction, weighted FIM motor 29-40
4AB7	Brain dysfunction, weighted FIM motor 19-28
4AC1	Neurological conditions, weighted FIM motor 62-91
4AC2	Neurological conditions, weighted FIM motor 43-61
4AC3	Neurological conditions, weighted FIM motor 19-42
4AD1	Spinal cord dysfunction, Age ≥ 50, weighted FIM motor 42-91
4AD2	Spinal cord dysfunction, Age ≥ 50, weighted FIM motor 19-41
4AD3	Spinal cord dysfunction, Age ≤ 49, weighted FIM motor 34-91
4AD4	Spinal cord dysfunction, Age ≤ 49, weighted FIM motor 19-33

Class	Description of AN-SNAP class
4AE1	Amputation of limb, Age ≥ 54, weighted FIM motor 68-91
4AE2	Amputation of limb, Age ≥ 54, weighted FIM motor 31-67
4AE3	Amputation of limb, Age ≥ 54, weighted FIM motor 19-30
4AE4	Amputation of limb, Age ≤ 53, weighted FIM motor 19-91
4AH1	Orthopaedic conditions, fractures, weighted FIM motor 49-91, FIM cognition 33-35
4AH2	Orthopaedic conditions, fractures, weighted FIM motor 49-91, FIM cognition 5-32
4AH3	Orthopaedic conditions, fractures, weighted FIM motor 38-48
4AH4	Orthopaedic conditions, fractures, weighted FIM motor 19-37
4A21	Orthopaedic conditions, all other, weighted FIM motor 68-91
4A22	Orthopaedic conditions, all other, weighted FIM motor 50-67
4A23	Orthopaedic conditions, all other, weighted FIM motor 19-49
4A31	Cardiac, Pain syndromes, Pulmonary, weighted FIM motor 72-91
4A32	Cardiac, Pain syndromes, Pulmonary, weighted FIM motor 55-71
4A33	Cardiac, Pain syndromes, Pulmonary, weighted FIM motor 34-54
4A34	Cardiac, Pain syndromes, Pulmonary, weighted FIM motor 19-33
4AP1	Major Multiple Trauma, weighted FIM motor 19-91
4AR1	Reconditioning, weighted FIM motor 67-91
4AR2	Reconditioning, weighted FIM motor 50-66, FIM cognition 26-35
4AR3	Reconditioning, weighted FIM motor 50-66, FIM cognition 5-25
4AR4	Reconditioning, weighted FIM motor 34-49, FIM cognition 31-35
4AR5	Reconditioning, weighted FIM motor 34-49, FIM cognition 5-30
4AR6	Reconditioning, weighted FIM motor 19-33
4A91	All other impairments, weighted FIM motor 55-91
4A92	All other impairments, weighted FIM motor 33-54
4A93	All other impairments, weighted FIM motor 19-32
499A	Adult Overnight Rehabilitation - Ungroupable

Acknowledgements

- **AROC wish to acknowledge the valuable contributions made by:**
  - Members of the Management Advisory Group of the Australasian Rehabilitation Outcomes Centre
  - Members of the Scientific and Clinical Advisory Committee of the Australasian Rehabilitation Outcomes Centre
  - The many staff from the rehabilitation facilities who have spent a great deal of time and care to collect, collate and correct the data, without whose considerable effort these reports would not be possible.

- **Disclaimer**

  AROC has made every effort to ensure that the data used in these reports are accurate. Data submitted to AROC are checked for anomalies and facilities are asked to re-submit data prior to the production of AROC reports. We have provided general guidelines on the interpretation of the information reported but would advise readers to use their professional judgement in considering all information contained in this report.

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  Anywhere Hospital AROC Impairment Specific Report on Spinal Cord Dysfunction (Inpatient - Pathway 3), January 2016 – December 2016. Australasian Rehabilitation Outcomes Centre (2017)

AROC Contact Details

Australasian Rehabilitation Outcomes Centre
Australian Health Services Research Institute
iC Enterprise 1, Innovation Campus
University of Wollongong NSW 2522
Phone: +61 2 4221 4411
Email: aroc@uow.edu.au
Web: aroc.org.au