



## Spinal Cord Dysfunction LOS and FIM Change Benchmarks in Australia & New Zealand by AN-SNAP V4, Calendar Year 2021

AN-SNAP class	Specialist Spinal Units				Non Specialist Spinal Units				All AROC Facilities			
	No.	Length of stay	FIM change	FIM gain per week	No.	Length of stay	FIM change	FIM gain per week	No.	Length of stay	FIM change	FIM gain per week
		Mean (95%CI)	Mean (95%CI)			Mean (95%CI)	Mean (95%CI)			Mean (95%CI)	Mean (95%CI)	
<b>Traumatic episodes</b>												
4AZ1	51	130.9 (111.1 - 150.7)	25.6 (19.5 - 31.6)	1.4	7	82.3 (28.8 - 135.7)	31.9 (7.1 - 56.7)	2.7	58	125.1 (106.3 - 143.8)	26.3 (20.3 - 32.3)	1.5
4AZ2	37	131.1 (109.9 - 152.2)	24.6 (17.4 - 31.8)	1.3	4	n.a	n.a	n.a	41	122.2 (101.3 - 143.2)	25.7 (18.4 - 33.0)	1.5
4AD1	34	46.0 (31.6 - 60.4)	25.6 (21.4 - 29.8)	3.9	26	19.7 (15.1 - 24.3)	19.7 (16.2 - 23.1)	7.0	60	34.6 (25.6 - 43.6)	23.0 (20.2 - 25.9)	4.7
4AD2	46	72.5 (62.6 - 82.5)	32.9 (27.4 - 38.3)	3.2	23	40.0 (30.4 - 49.5)	24.4 (16.9 - 31.9)	4.3	69	61.7 (53.5 - 69.9)	30.1 (25.6 - 34.6)	3.4
4AD3	38	43.7 (34.6 - 52.8)	23.2 (18.4 - 28.0)	3.7	10	23.5 (14.9 - 32.1)	18.9 (11.9 - 25.9)	5.6	48	39.5 (31.7 - 47.4)	22.3 (18.2 - 26.4)	4.0
4AD4	40	92.0 (75.7 - 108.2)	40.5 (33.9 - 47.0)	3.1	3	n.a	n.a	n.a	43	88.9 (73.4 - 104.4)	38.8 (32.3 - 45.2)	3.1
4AP1	12	114.3 (74.4 - 154.1)	20.5 (10.6 - 30.4)	1.3	15	38.0 (27.3 - 48.7)	31.5 (23.4 - 39.6)	5.8	27	71.9 (48.4 - 95.4)	26.6 (20.1 - 33.2)	2.6
<b>Total episodes</b>	<b>258</b>				<b>88</b>				<b>346</b>			
<b>Non-Traumatic episodes</b>												
4AZ1	23	114.3 (93.7 - 135.0)	28.3 (19.4 - 37.1)	1.7	22	45.9 (32.1 - 59.8)	26.8 (16.9 - 36.7)	4.1	45	80.9 (64.9 - 96.9)	27.6 (21.0 - 34.1)	2.4
4AZ2	3	n.a	n.a	n.a	0	n.a	n.a	n.a	3	n.a n.a	n.a n.a	n.a
4AD1	42	43.2 (33.3 - 53.1)	20.0 (16.9 - 23.1)	3.2	145	22.5 (19.0 - 26.0)	19.3 (17.5 - 21.2)	6.0	187	27.2 (23.5 - 30.8)	19.5 (17.9 - 21.1)	5.0
4AD2	68	83.2 (71.8 - 94.6)	29.9 (25.2 - 34.5)	2.5	113	47.3 (41.5 - 53.1)	28.3 (25.1 - 31.5)	4.2	181	60.8 (54.7 - 66.9)	28.9 (26.3 - 31.5)	3.3
4AD3	23	42.8 (26.7 - 58.9)	19.3 (13.5 - 25.0)	3.2	49	26.1 (18.8 - 33.4)	18.5 (14.7 - 22.3)	5.0	72	31.4 (24.1 - 38.7)	18.8 (15.6 - 21.9)	4.2
4AD4	11	92.7 (52.9 - 132.5)	37.1 (25.3 - 48.9)	2.8	19	52.1 (35.2 - 69.0)	34.9 (25.9 - 43.9)	4.7	30	67.0 (48.0 - 86.0)	35.7 (28.7 - 42.8)	3.7
<b>Total episodes</b>	<b>170</b>				<b>348</b>				<b>518</b>			

NOTE 1: Where the number of episodes < 5 details are not given for reasons of privacy and accuracy.

NOTE 2: Analysis includes first admission, complete episodes only

### AN-SNAP V4 classes for Spinal Cord Dysfunction

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
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

### All Spinal Cord Dysfunction impairment codes

Traumatic spinal cord dysfunction	Non traumatic spinal cord dysfunction
4.211 Paraplegia, incomplete	4.111 Paraplegia, incomplete
4.212 Paraplegia, complete	4.112 Paraplegia, complete
4.2211 Quadriplegia, incomplete C1-4	4.1211 Quadriplegia, incomplete C1-4
4.2212 Quadriplegia, incomplete C5-8	4.1212 Quadriplegia, incomplete C5-8
4.2221 Quadriplegia, complete C1-4	4.1221 Quadriplegia, complete C1-4
4.2222 Quadriplegia, complete C5-8	4.1222 Quadriplegia, complete C5-8
4.23 Other traumatic spinal cord dysfunction	4.13 Other non-traumatic spinal cord dysfunction
<b>Major Multiple Trauma</b>	
14.1 Brain + spinal cord injury	
14.3 Spinal cord + multi fracture/amputation	

## Spinal Cord Dysfunction LOS and FIM Change Benchmarks in Australia & New Zealand by AN-SNAP V3, Calendar Year 2021

AN-SNAP class	Specialist Spinal Units				Non Specialist Spinal Units				All AROC Facilities			
	No.	Length of stay	FIM change	FIM gain per week	No.	Length of stay	FIM change	FIM gain per week	No.	Length of stay	FIM change	FIM gain per week
		Mean (95%CI)	Mean (95%CI)			Mean (95%CI)	Mean (95%CI)			Mean (95%CI)	Mean (95%CI)	
<b>Traumatic episodes</b>												
3-202	54	144.9 (126.7 - 163.0)	21.8 (16.4 - 27.3)	1.1	6	40.8 (20.7 - 60.9)	33.7 (5.4 - 61.9)	5.8	60	134.5 (116.2 - 152.8)	23.0 (17.4 - 28.6)	1.2
3-220	8	23.1 (10.3 - 35.9)	4.6 (2.0 - 7.2)	1.4	2	n.a	n.a	n.a	10	20.5 (10.0 - 31.0)	5.1 (3.0 - 7.2)	1.7
3-221	47	45.9 (34.9 - 56.9)	21.9 (19.1 - 24.7)	3.3	32	20.8 (16.7 - 25.0)	20.4 (17.4 - 23.4)	6.9	79	35.7 (28.4 - 43.0)	21.3 (19.2 - 23.4)	4.2
3-222	104	82.5 (72.3 - 92.7)	34.5 (30.6 - 38.3)	2.9	29	41.3 (32.6 - 50.0)	22.7 (15.6 - 29.8)	3.9	133	73.5 (64.8 - 82.3)	31.9 (28.4 - 35.4)	3.0
3-223	32	84.7 (69.4 - 100.0)	38.0 (30.9 - 45.1)	3.1	2	n.a	n.a	n.a	34	81.3 (66.0 - 96.7)	36.9 (29.9 - 43.9)	3.2
3-238	2	n.a	n.a	n.a	1	n.a	n.a	n.a	3	n.a	n.a	n.a
3-239	2	n.a	n.a	n.a	8	30.6 (15.1 - 46.2)	28.6 (23.2 - 34.1)	6.5	10	51.1 (17.6 - 84.6)	27.5 (23.0 - 32.0)	3.8
3-240	9	119.8 (71.0 - 168.6)	26.7 (11.7 - 41.6)	1.6	5	56.0 (49.5 - 62.5)	38.2 (15.7 - 60.7)	4.8	14	97.0 (61.6 - 132.4)	30.8 (18.3 - 43.2)	2.2
3-241	1	n.a	n.a	n.a	3	n.a	n.a	n.a	4	n.a	n.a	n.a
<b>Total episodes</b>	<b>259</b>				<b>88</b>				<b>347</b>			
<b>Non-Traumatic episodes</b>												
3-202	13	123.2 (92.8 - 153.5)	30.5 (17.8 - 43.1)	1.7	4	n.a	n.a	n.a	17	108.9 (80.8 - 136.9)	28.4 (18.1 - 38.6)	1.8
3-220	5	28.6 (16.4 - 40.8)	3.4 (-0.4 - 7.2)	0.8	10	5.4 (4.1 - 6.7)	2.7 (0.5 - 4.9)	3.5	15	13.1 (6.3 - 20.0)	2.9 (1.1 - 4.8)	1.6
3-221	51	44.5 (34.4 - 54.7)	18.7 (16.1 - 21.3)	2.9	153	20.1 (17.6 - 22.5)	18.5 (17.0 - 20.1)	6.5	204	26.2 (22.7 - 29.6)	18.6 (17.2 - 19.9)	5.0
3-222	97	84.2 (73.9 - 94.5)	30.1 (26.4 - 33.8)	2.5	172	47.3 (42.4 - 52.1)	28.6 (25.9 - 31.3)	4.2	269	60.6 (55.3 - 65.8)	29.1 (27.0 - 31.3)	3.4
3-223	5	89.2 (60.1 - 118.3)	38.6 (16.9 - 60.3)	3.0	10	41.7 (17.1 - 66.3)	32.3 (19.2 - 45.4)	5.4	15	57.5 (35.7 - 79.3)	34.4 (23.4 - 45.4)	4.2
<b>Total episodes</b>	<b>171</b>				<b>349</b>				<b>520</b>			

NOTE 1: Where the number of episodes < 5 details are not given for reasons of privacy and accuracy.

NOTE 2: Analysis includes first admission, complete episodes only

### AN-SNAP V3 classes for Spinal Cord Dysfunction

Class	Description of AN-SNAP class
3-202	Brain, Neurological, Spinal & Major Multiple Trauma, FIM 13
3-220	Spinal Cord Dysfunction, FIM motor 81-91
3-221	Spinal Cord Dysfunction, FIM motor 47-80
3-222	Spinal Cord Dysfunction, FIM motor 14-46, age>=33
3-223	Spinal Cord Dysfunction, FIM motor 14-46, age<=32
3-238	Major Multiple Trauma, FIM total 101-126
3-239	Major Multiple Trauma, FIM total 74-100 or Burns
3-240	Major Multiple Trauma, FIM total 44-73
3-241	Major Multiple Trauma, FIM total 19-43

### All Spinal Cord Dysfunction impairment codes

Traumatic spinal cord dysfunction	Non traumatic spinal cord dysfunction
4.211 Paraplegia, incomplete	4.111 Paraplegia, incomplete
4.212 Paraplegia, complete	4.112 Paraplegia, complete
4.2211 Quadriplegia, incomplete C1-4	4.1211 Quadriplegia, incomplete C1-4
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<b>Major Multiple Trauma</b>	
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