

Spinal Cord Dysfunction LOS and FIM Change Benchmarks in Australia & New Zealand by AN-SNAP V5, Financial Year 2025



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)					
Traumatic episodes												
5AZ1	64	124.7 (111.1 - 138.3)	19.5 (14.7 - 24.3)	1.1	15	84.2 (49.9 - 118.5)	34.7 (19.5 - 50.0)	2.9	79	117.0 (103.8 - 130.2)	22.4 (17.4 - 27.4)	1.3
5AZ2	61	139.0 (121.9 - 156.2)	25.9 (20.4 - 31.4)	1.3	1	na	na	na	62	137.4 (120.3 - 154.5)	26.8 (21.1 - 32.4)	1.4
5AD1	31	34.9 (20.6 - 49.2)	13.3 (10.3 - 16.3)	2.7	29	14.6 (11.4 - 17.8)	17.6 (14.2 - 20.9)	8.4	60	25.1 (17.1 - 33.1)	15.4 (13.1 - 17.7)	4.3
5AD2	24	65.9 (47.1 - 84.6)	30.9 (27.2 - 34.5)	3.3	22	32.4 (23.4 - 41.5)	29.9 (25.9 - 34.0)	6.5	46	49.9 (38.2 - 61.5)	30.4 (27.7 - 33.1)	4.3
5AD3	78	103.4 (89.3 - 117.5)	38.4 (34.3 - 42.4)	2.6	15	57.4 (38.9 - 75.9)	40.2 (32.4 - 48.0)	4.9	93	96.0 (83.3 - 108.7)	38.7 (35.1 - 42.3)	2.8
5AP1	3	na	na	na	35	28.9 (21.6 - 36.3)	22.5 (17.8 - 27.2)	5.4	38	30.1 (22.3 - 37.9)	21.9 (17.4 - 26.5)	5.1
5AP2	7	126.6 (103.9 - 149.3)	34.0 (16.7 - 51.3)	1.9	15	72.3 (39.0 - 105.5)	41.5 (33.2 - 49.7)	4.0	22	89.5 (63.6 - 115.4)	39.1 (31.3 - 46.8)	3.1
Total episodes	268				132				400			
Non-Traumatic episodes												
5AZ1	15	88.0 (63.7 - 112.3)	30.4 (18.4 - 42.4)	2.4	11	74.2 (30.4 - 118.0)	17.5 (2.2 - 32.7)	1.6	26	82.2 (59.3 - 105.0)	24.9 (15.3 - 34.5)	2.1
5AZ2	7	141.9 (78.4 - 205.3)	35.1 (19.5 - 50.8)	1.7	7	79.0 (18.5 - 139.5)	20.1 (-1.1 - 41.4)	1.8	14	110.4 (65.1 - 155.7)	27.6 (14.3 - 40.9)	1.8
5AD1	31	37.7 (28.3 - 47.1)	12.9 (9.9 - 15.9)	2.4	142	20.5 (17.7 - 23.2)	16.5 (14.9 - 18.1)	5.7	173	23.5 (20.6 - 26.5)	15.9 (14.5 - 17.3)	4.7
5AD2	39	67.6 (57.1 - 78.1)	30.1 (26.8 - 33.4)	3.1	110	34.4 (30.3 - 38.4)	28.8 (26.6 - 31.1)	5.9	149	43.1 (38.4 - 47.7)	29.2 (27.3 - 31.0)	4.7
5AD3	95	116.4 (100.0 - 132.7)	28.9 (25.1 - 32.6)	1.7	79	54.9 (45.8 - 64.0)	32.4 (27.7 - 37.2)	4.1	174	88.4 (77.7 - 99.2)	30.5 (27.5 - 33.5)	2.4
Total episodes	187				349				536			

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 V5 classes for Spinal Cord Dysfunction

Class	Description of AN-SNAP class
5AZ1	Weighted FIM Motor score 13-18, Brain, Spine, MMT, Burns, Age >= 59
5AZ2	Weighted FIM Motor score 13-18, Brain, Spine, MMT, Burns, Age 18 - 58
5AD1	Spinal cord dysfunction, Weighted FIM Motor 55 - 91
5AD2	Spinal cord dysfunction, Weighted FIM Motor 37 - 54
5AD3	Spinal cord dysfunction, Weighted FIM Motor 19 - 36
5AP1	Major Multiple Trauma, Weighted FIM Motor 51 - 91
5AP2	Major Multiple Trauma, Weighted FIM Motor 19 - 50

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
Major Multiple Trauma	
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 V4, Financial Year 2025



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)					
Traumatic episodes												
4AZ1	81	130.7 (116.7 - 144.8)	20.1 (15.9 - 24.4)	1.1	17	81.7 (50.3 - 113.1)	34.8 (21.0 - 48.5)	3.0	98	122.2 (108.9 - 135.5)	22.7 (18.3 - 27.0)	1.3
4AZ2	46	137.9 (119.9 - 155.9)	27.5 (21.0 - 33.9)	1.4	1	na	na	na	47	135.7 (117.6 - 153.7)	28.6 (21.9 - 35.3)	1.5
4AD1	18	45.9 (26.4 - 65.3)	17.6 (12.1 - 23.0)	2.7	35	19.4 (14.5 - 24.3)	23.1 (19.5 - 26.6)	8.3	53	28.4 (20.5 - 36.3)	21.2 (18.2 - 24.2)	5.2
4AD2	36	109.5 (85.3 - 133.6)	37.8 (31.9 - 43.7)	2.4	15	53.2 (36.1 - 70.3)	33.5 (26.8 - 40.2)	4.4	51	92.9 (73.8 - 112.1)	36.5 (31.9 - 41.2)	2.8
4AD3	42	50.9 (36.4 - 65.4)	24.2 (20.0 - 28.3)	3.3	12	23.4 (12.8 - 34.1)	22.1 (14.1 - 30.1)	6.6	54	44.8 (32.8 - 56.8)	23.7 (20.0 - 27.4)	3.7
4AD4	35	95.9 (82.9 - 108.8)	39.6 (33.5 - 45.7)	2.9	2	na	na	na	37	93.7 (80.8 - 106.6)	40.9 (34.9 - 46.9)	3.1
4API	10	101.8 (69.5 - 134.1)	28.4 (14.8 - 42.0)	2.0	50	41.9 (29.6 - 54.3)	28.2 (23.5 - 32.9)	4.7	60	51.9 (39.0 - 64.9)	28.2 (23.7 - 32.8)	3.8
Total episodes	268				132				400			
Non-Traumatic episodes												
4AZ1	20	108.3 (79.4 - 137.1)	29.1 (19.1 - 39.1)	1.9	18	64.8 (33.7 - 95.9)	15.8 (4.9 - 26.7)	1.7	38	87.7 (65.8 - 109.5)	22.8 (15.3 - 30.3)	1.8
4AZ2	3	na	na	na	4	na	na	na	7	114.6 (67.2 - 161.9)	38.7 (20.7 - 56.7)	2.4
4AD1	30	46.8 (36.0 - 57.6)	18.7 (14.1 - 23.3)	2.8	150	23.3 (20.5 - 26.1)	19.6 (17.8 - 21.4)	5.9	180	27.2 (24.0 - 30.4)	19.4 (17.7 - 21.1)	5.0
4AD2	82	111.9 (93.8 - 130.0)	28.3 (24.4 - 32.1)	1.8	103	48.4 (42.3 - 54.6)	31.8 (28.1 - 35.5)	4.6	185	76.5 (66.7 - 86.4)	30.2 (27.5 - 32.9)	2.8
4AD3	34	57.5 (44.3 - 70.7)	23.6 (19.3 - 27.8)	2.9	68	26.9 (21.4 - 32.4)	22.5 (19.7 - 25.3)	5.8	102	37.1 (30.8 - 43.4)	22.8 (20.5 - 25.2)	4.3
4AD4	18	121.6 (96.5 - 146.6)	34.8 (26.2 - 43.3)	2.0	6	67.0 (1.1 - 132.9)	42.8 (26.6 - 59.1)	4.5	24	107.9 (82.2 - 133.6)	36.8 (29.4 - 44.2)	2.4
Total episodes	187				349				536			

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
4API	Major Multiple Trauma, weighted FIM motor 19-91

All Spinal Cord Dysfunction impairment codes

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

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

Major Multiple Trauma

- 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, Financial Year 2025



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)					
Traumatic episodes												
3-202	82	131.8 (118.2 - 145.5)	20.9 (16.7 - 25.1)	1.1	9	90.0 (40.1 - 139.9)	27.8 (4.1 - 51.4)	2.2	91	127.7 (114.2 - 141.2)	21.5 (17.1 - 26.0)	1.2
3-220	3	na	na	na	3	na	na	na	6	12.0 (4.7 - 19.3)	3.5 (1.9 - 5.1)	2.0
3-221	43	44.3 (31.1 - 57.5)	20.1 (16.9 - 23.3)	3.2	37	18.0 (13.4 - 22.5)	21.9 (18.7 - 25.2)	8.5	80	32.1 (24.2 - 40.1)	20.9 (18.6 - 23.2)	4.6
3-222	90	110.3 (95.6 - 124.9)	32.5 (28.3 - 36.7)	2.1	27	55.1 (39.7 - 70.4)	36.0 (30.6 - 41.5)	4.6	117	97.5 (85.0 - 110.1)	33.3 (29.9 - 36.8)	2.4
3-223	39	112.7 (100.0 - 125.4)	37.6 (31.1 - 44.0)	2.3	5	53.4 (28.0 - 78.8)	50.0 (39.0 - 61.0)	6.6	44	106.0 (93.1 - 118.8)	39.0 (33.0 - 44.9)	2.6
3-238	0	na	na	na	14	20.9 (13.9 - 27.9)	9.4 (6.3 - 12.4)	3.1	14	20.9 (13.9 - 27.9)	9.4 (6.3 - 12.4)	3.1
3-239	4	na	na	na	18	33.9 (23.0 - 44.9)	30.2 (26.1 - 34.3)	6.2	22	38.9 (25.9 - 52.0)	27.8 (23.3 - 32.2)	5.0
3-240	7	127.4 (105.0 - 149.8)	31.1 (11.7 - 50.6)	1.7	16	50.2 (32.5 - 67.8)	44.2 (37.0 - 51.3)	6.2	23	73.7 (53.5 - 93.9)	40.2 (32.4 - 48.0)	3.8
3-241	0	na	na	na	3	na	na	na	3	na	na	na
Total episodes	268				132				400			
Non-Traumatic episodes												
3-202	6	117.3 (38.5 - 196.1)	23.3 (5.9 - 40.7)	1.4	4	na	na	na	10	104.0 (45.6 - 162.4)	23.0 (9.1 - 36.9)	1.5
3-220	2	na	na	na	6	25.3 (3.4 - 47.2)	2.5 (0.0 - 5.0)	0.7	8	23.8 (7.5 - 40.0)	1.8 (-0.5 - 4.0)	0.5
3-221	39	43.7 (34.4 - 53.0)	17.8 (14.3 - 21.3)	2.9	179	22.9 (20.1 - 25.7)	19.0 (17.5 - 20.5)	5.8	218	26.6 (23.6 - 29.6)	18.8 (17.4 - 20.2)	4.9
3-222	131	106.6 (94.0 - 119.2)	29.7 (26.6 - 32.8)	1.9	150	49.3 (43.0 - 55.6)	29.9 (26.9 - 33.0)	4.2	281	76.0 (68.5 - 83.5)	29.8 (27.6 - 32.0)	2.7
3-223	9	84.9 (45.2 - 124.6)	32.9 (23.2 - 42.6)	2.7	10	40.1 (22.0 - 58.2)	41.9 (32.8 - 51.0)	7.3	19	61.3 (38.6 - 84.0)	37.6 (30.9 - 44.4)	4.3
Total episodes	187				349				536			

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
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
Major Multiple Trauma	
14.1 Brain + spinal cord injury	
14.3 Spinal cord + multi fracture/amputation	