

AROC PUBLISHED BENCHMARKS

Brain Injury and Spinal Cord Injury LOS and FIM Change Benchmarks

Calendar Year 2025



**UNIVERSITY
OF WOLLONGONG
AUSTRALIA**

Brain Injury Length of Stay (LOS) and Functional Independence Measure (FIM) Change Benchmarks in Australia and New Zealand by AN-SNAP V5, Calendar Year 2025

AN-SNAP class	Specialist Brain Units †			Non Specialist Brain Units			All AROC Facilities					
	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)
Traumatic episodes												
5AZ1	19	100.7 (76.7 - 124.8)	58.3 (43.7 - 72.9)	6.2 (3.6 - 8.7)	23	59.9 (44.8 - 75.0)	30.9 (19.1 - 42.7)	3.8 (2.5 - 5.0)	42	78.4 (63.5 - 93.2)	43.3 (33.2 - 53.3)	4.9 (3.5 - 6.2)
5AZ2	59	125.0 (103.7 - 146.2)	65.3 (58.1 - 72.6)	6.1 (4.6 - 7.6)	8	118.1 (70.7 - 165.6)	65.2 (42.5 - 88.0)	5.6 (2.2 - 9.1)	67	124.2 (104.7 - 143.6)	65.3 (58.4 - 72.2)	6.0 (4.7 - 7.4)
5AB1	87	16.7 (14.6 - 18.8)	11.2 (9.4 - 12.9)	6.2 (4.8 - 7.6)	145	14.3 (12.7 - 15.9)	14.1 (12.8 - 15.4)	9.4 (8.1 - 10.7)	232	15.2 (13.9 - 16.5)	13.0 (11.9 - 14.0)	8.2 (7.2 - 9.2)
5AB2	7	33.9 (16.0 - 51.7)	27.0 (12.0 - 42.0)	9.0 (4.5 - 13.4)	90	23.2 (19.3 - 27.2)	31.7 (29.3 - 34.1)	12.7 (11.2 - 14.1)	97	24.0 (20.1 - 27.9)	31.4 (28.9 - 33.9)	12.4 (11.0 - 13.8)
5AB3	203	32.8 (29.1 - 36.5)	19.9 (18.3 - 21.5)	5.9 (5.2 - 6.7)	123	18.4 (15.6 - 21.2)	21.5 (19.5 - 23.4)	11.5 (9.8 - 13.1)	326	27.4 (24.7 - 30.0)	20.5 (19.3 - 21.7)	8.0 (7.2 - 8.8)
5AB4	18	63.6 (46.8 - 80.4)	50.3 (44.9 - 55.6)	7.5 (5.5 - 9.4)	63	30.9 (25.9 - 35.9)	35.4 (31.6 - 39.2)	10.8 (9.0 - 12.6)	81	38.2 (32.1 - 44.3)	38.7 (35.2 - 42.1)	10.1 (8.6 - 11.5)
5AB5	157	44.1 (38.5 - 49.7)	35.6 (33.1 - 38.0)	7.8 (7.0 - 8.6)	87	31.2 (26.9 - 35.6)	27.8 (24.5 - 31.0)	8.4 (6.9 - 10.0)	244	39.5 (35.5 - 43.5)	32.8 (30.8 - 34.8)	8.0 (7.2 - 8.8)
5AB6	48	100.2 (76.8 - 123.7)	64.4 (59.0 - 69.8)	8.6 (6.2 - 10.9)	44	47.0 (38.5 - 55.4)	46.0 (39.1 - 52.9)	9.3 (7.1 - 11.5)	92	74.8 (60.8 - 88.7)	55.6 (50.9 - 60.3)	8.9 (7.3 - 10.5)
5AP1	67	28.9 (23.9 - 33.9)	28.2 (25.3 - 31.1)	9.1 (7.6 - 10.6)	68	21.0 (18.1 - 24.0)	18.6 (16.3 - 21.0)	8.4 (6.8 - 10.1)	135	24.9 (22.0 - 27.9)	23.4 (21.3 - 25.4)	8.8 (7.6 - 9.9)
5AP2	50	58.8 (48.9 - 68.6)	57.2 (53.9 - 60.4)	9.6 (7.8 - 11.4)	57	42.6 (35.7 - 49.5)	46.1 (42.8 - 49.5)	9.6 (8.3 - 11.0)	107	50.1 (44.1 - 56.2)	51.3 (48.7 - 53.8)	9.6 (8.5 - 10.7)
Total episodes	715				708				1,423			
Non-Traumatic episodes												
5AZ1	10	124.2 (95.4 - 153.0)	26.0 (12.7 - 39.3)	2.2 (0.2 - 4.2)	38	58.8 (47.1 - 70.5)	38.7 (28.7 - 48.7)	5.1 (3.7 - 6.5)	48	72.4 (59.1 - 85.7)	36.1 (27.6 - 44.5)	4.5 (3.3 - 5.7)
5AZ2	20	136.9 (99.2 - 174.6)	54.1 (38.6 - 69.6)	4.3 (2.3 - 6.3)	23	117.7 (94.4 - 141.1)	40.5 (29.9 - 51.1)	3.3 (2.2 - 4.4)	43	126.7 (105.2 - 148.1)	46.8 (37.5 - 56.1)	3.8 (2.7 - 4.9)
5AB1	37	13.6 (11.4 - 15.7)	15.8 (13.2 - 18.4)	9.6 (7.5 - 11.7)	223	13.1 (12.1 - 14.1)	15.1 (14.0 - 16.2)	10.2 (9.1 - 11.4)	260	13.2 (12.3 - 14.1)	15.2 (14.2 - 16.2)	10.1 (9.1 - 11.2)
5AB2	11	26.2 (16.7 - 35.6)	32.6 (21.1 - 44.2)	11.1 (6.5 - 15.7)	164	25.7 (22.7 - 28.8)	31.3 (29.1 - 33.5)	12.3 (10.8 - 13.8)	175	25.8 (22.8 - 28.7)	31.4 (29.2 - 33.6)	12.2 (10.8 - 13.7)
5AB3	37	31.1 (24.2 - 38.0)	17.6 (13.3 - 21.9)	5.2 (3.0 - 7.4)	182	20.9 (18.8 - 22.9)	20.6 (18.9 - 22.3)	9.4 (8.2 - 10.5)	219	22.6 (20.5 - 24.7)	20.1 (18.5 - 21.7)	8.7 (7.6 - 9.7)
5AB4	7	70.1 (35.0 - 105.3)	44.9 (32.7 - 57.1)	6.9 (3.0 - 10.8)	109	36.6 (31.7 - 41.5)	31.9 (28.3 - 35.4)	8.9 (7.4 - 10.3)	116	38.6 (33.4 - 43.8)	32.7 (29.2 - 36.1)	8.7 (7.3 - 10.2)
5AB5	50	56.9 (46.8 - 67.0)	26.6 (21.4 - 31.8)	4.9 (3.6 - 6.2)	108	34.2 (29.1 - 39.2)	26.7 (23.9 - 29.5)	7.9 (6.7 - 9.2)	158	41.3 (36.4 - 46.3)	26.7 (24.2 - 29.2)	7.0 (6.0 - 7.9)
5AB6	30	80.2 (54.3 - 106.1)	52.5 (42.2 - 62.8)	7.7 (5.0 - 10.3)	63	49.5 (40.7 - 58.2)	43.4 (37.1 - 49.8)	9.1 (6.7 - 11.6)	93	59.4 (48.8 - 70.0)	46.4 (40.9 - 51.8)	8.7 (6.8 - 10.5)
Total episodes	202				910				1,112			

• 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
 • NOTE 3: † Specialist unit benchmarks are used as the "reported benchmarks" in member benchmarking reports, live reporting and data extracts.

AN-SNAP V5 class descriptions

- 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
- 5AB1** Brain injury, FIM Cognition 27 - 35 Weighted FIM Motor 59 - 91
- 5AB2** Brain injury, FIM Cognition 27 - 35 Weighted FIM Motor 19 - 58
- 5AB3** Brain injury, FIM Cognition 19 - 26 Weighted FIM Motor 50 - 91
- 5AB4** Brain injury, FIM Cognition 19 - 26 Weighted FIM Motor 19 - 49
- 5AB5** Brain injury, FIM Cognition 5 - 18 Weighted FIM Motor 39 - 91
- 5AB6** Brain injury, FIM Cognition 5 - 18 Weighted FIM Motor 19 - 38
- 5AP1** Major Multiple Trauma, Weighted FIM Motor 51 - 91
- 5AP2** Major Multiple Trauma, Weighted FIM Motor 19 - 50

All Brain Injury impairment codes

- **Non-traumatic brain injury**
 - 2.11 Sub-arachnoid haemorrhage
 - 2.12 Anoxic brain damage
 - 2.13 Other non-traumatic brain injury
- **Traumatic brain injury**
 - 2.21 Open injury
 - 2.22 Closed injury
- **Major Multiple Trauma**
 - 14.1 Brain injury + spinal cord injury
 - 14.2 Brain + multiple fracture/amputation

Brain Injury Length of Stay (LOS) and Functional Independence Measure (FIM) Change Benchmarks in Australia and New Zealand by AN-SNAP V4, Calendar Year 2025

AN-SNAP class	Specialist Brain Units †			Non Specialist Brain Units			All AROC Facilities					
	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)
Traumatic episodes												
4AZ1	28	112.0 (92.9 - 131.0)	63.5 (52.1 - 74.9)	6.4 (3.7 - 9.0)	24	63.7 (47.1 - 80.2)	32.2 (19.6 - 44.8)	3.9 (2.4 - 5.5)	52	89.7 (75.4 - 104.0)	49.1 (39.6 - 58.5)	5.2 (3.6 - 6.8)
4AZ2	45	120.8 (95.2 - 146.3)	65.5 (57.0 - 74.0)	6.5 (4.9 - 8.0)	6	117.3 (54.2 - 180.4)	76.7 (65.4 - 87.9)	6.7 (3.6 - 9.7)	51	120.4 (96.8 - 143.9)	66.8 (59.2 - 74.5)	6.5 (5.1 - 7.9)
4AB1	95	18.1 (15.6 - 20.6)	10.2 (8.6 - 11.8)	5.7 (4.3 - 7.0)	92	13.6 (11.5 - 15.7)	10.2 (8.9 - 11.5)	7.3 (5.9 - 8.6)	187	15.9 (14.2 - 17.6)	10.2 (9.2 - 11.2)	6.4 (5.5 - 7.4)
4AB2	180	30.7 (27.5 - 33.9)	17.4 (16.1 - 18.7)	5.5 (4.8 - 6.2)	56	21.0 (15.4 - 26.6)	15.4 (12.9 - 17.8)	8.6 (6.0 - 11.3)	236	28.4 (25.6 - 31.2)	16.9 (15.7 - 18.0)	6.2 (5.4 - 7.1)
4AB3	21	39.0 (15.6 - 62.5)	27.2 (23.3 - 31.1)	8.7 (6.5 - 10.8)	145	17.5 (15.6 - 19.3)	25.4 (23.8 - 27.1)	12.9 (11.7 - 14.1)	166	20.2 (16.7 - 23.7)	25.6 (24.1 - 27.2)	12.4 (11.2 - 13.5)
4AB4	82	43.8 (37.0 - 50.6)	35.7 (33.2 - 38.3)	7.9 (6.8 - 9.0)	121	25.4 (22.3 - 28.6)	29.0 (26.7 - 31.2)	11.4 (10.0 - 12.9)	203	32.9 (29.3 - 36.4)	31.7 (30.0 - 33.4)	10.0 (9.0 - 11.0)
4AB5	79	48.6 (40.0 - 57.1)	41.9 (39.1 - 44.8)	8.7 (7.4 - 9.9)	53	30.9 (25.9 - 35.9)	31.2 (26.9 - 35.6)	8.9 (7.2 - 10.5)	132	41.5 (35.8 - 47.1)	37.6 (35.0 - 40.2)	8.7 (7.7 - 9.7)
4AB6	27	72.1 (52.5 - 91.8)	55.6 (48.1 - 63.1)	8.4 (6.2 - 10.5)	57	36.4 (29.2 - 43.6)	42.0 (37.5 - 46.4)	11.3 (9.3 - 13.4)	84	47.9 (39.2 - 56.6)	46.4 (42.3 - 50.4)	10.4 (8.8 - 12.0)
4AB7	43	107.2 (80.6 - 133.8)	64.4 (58.1 - 70.6)	7.9 (5.4 - 10.4)	30	51.4 (41.3 - 61.5)	41.2 (31.8 - 50.6)	7.4 (5.2 - 9.6)	73	84.3 (66.9 - 101.6)	54.8 (48.9 - 60.8)	7.7 (6.0 - 9.4)
4API	115	41.5 (35.6 - 47.3)	39.9 (36.6 - 43.2)	9.3 (8.1 - 10.5)	124	30.8 (26.7 - 34.8)	30.9 (27.8 - 34.0)	9.0 (7.9 - 10.0)	239	35.9 (32.4 - 39.5)	35.2 (32.9 - 37.5)	9.1 (8.3 - 9.9)
Total episodes	715				708				1,423			
Non-Traumatic episodes												
4AZ1	17	118.0 (96.7 - 139.3)	41.0 (25.0 - 57.0)	3.2 (1.5 - 4.8)	41	76.9 (61.1 - 92.7)	41.1 (31.7 - 50.5)	4.7 (3.4 - 5.9)	58	88.9 (75.4 - 102.5)	41.1 (33.0 - 49.1)	4.2 (3.2 - 5.3)
4AZ2	12	152.2 (93.1 - 211.4)	51.1 (30.7 - 71.5)	4.4 (1.4 - 7.4)	11	116.4 (82.5 - 150.2)	45.3 (30.2 - 60.3)	3.7 (2.2 - 5.2)	23	135.1 (100.2 - 170.0)	48.3 (35.7 - 60.9)	4.1 (2.3 - 5.8)
4AB1	25	13.2 (10.8 - 15.6)	11.5 (8.7 - 14.2)	6.4 (4.5 - 8.4)	140	13.1 (11.5 - 14.6)	10.7 (9.5 - 12.0)	7.8 (6.5 - 9.0)	165	13.1 (11.7 - 14.4)	10.9 (9.7 - 12.0)	7.6 (6.4 - 8.7)
4AB2	41	42.4 (33.3 - 51.5)	14.0 (11.8 - 16.3)	3.4 (2.5 - 4.3)	78	25.1 (19.8 - 30.4)	14.1 (12.1 - 16.1)	5.6 (4.6 - 6.6)	119	31.1 (26.2 - 36.0)	14.1 (12.6 - 15.6)	4.8 (4.1 - 5.6)
4AB3	26	17.5 (13.7 - 21.3)	23.9 (19.8 - 28.0)	12.4 (9.6 - 15.2)	246	18.7 (16.9 - 20.4)	25.8 (24.6 - 27.1)	13.2 (12.0 - 14.5)	272	18.5 (16.9 - 20.2)	25.6 (24.4 - 26.8)	13.2 (12.0 - 14.3)
4AB4	23	49.1 (34.5 - 63.7)	29.3 (22.2 - 36.3)	6.0 (2.9 - 9.0)	170	26.7 (23.8 - 29.5)	27.5 (25.6 - 29.5)	10.2 (9.0 - 11.4)	193	29.4 (26.1 - 32.6)	27.7 (25.8 - 29.7)	9.7 (8.6 - 10.8)
4AB5	21	64.5 (46.4 - 82.6)	34.8 (26.3 - 43.4)	6.3 (3.9 - 8.7)	55	32.1 (26.0 - 38.1)	29.2 (25.0 - 33.3)	8.9 (7.2 - 10.7)	76	41.0 (33.7 - 48.4)	30.7 (26.9 - 34.5)	8.2 (6.8 - 9.7)
4AB6	25	56.8 (46.5 - 67.1)	48.9 (38.5 - 59.4)	8.3 (5.5 - 11.1)	97	37.2 (32.2 - 42.2)	34.8 (30.3 - 39.2)	9.1 (7.3 - 10.9)	122	41.3 (36.6 - 46.0)	37.7 (33.4 - 41.9)	8.9 (7.4 - 10.4)
4AB7	12	116.7 (57.6 - 175.7)	61.3 (47.0 - 75.7)	7.6 (3.3 - 12.0)	72	54.9 (46.5 - 63.4)	41.1 (35.2 - 46.9)	7.8 (5.9 - 9.7)	84	63.8 (51.9 - 75.6)	44.0 (38.4 - 49.5)	7.8 (6.0 - 9.5)
Total episodes	202				910				1,112			

• 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
 • NOTE 3: † Specialist unit benchmarks are used as the "reported benchmarks" in member benchmarking reports, live reporting and data extracts.

AN-SNAP V4 class descriptions

- 4AZ1** Weighted FIM motor score 13-18, Brain, Spine, MMT, Age ≥ 49
- 4AZ2** Weighted FIM motor score 13-18, Brain, Spine, MMT, Age ≤ 48
- 4AB1** Brain injury, weighted FIM motor 71-91, FIM cognition 26-35
- 4AB2** Brain injury, weighted FIM motor 71-91, FIM cognition 5-25
- 4AB3** Brain injury, weighted FIM motor 41-70, FIM cognition 26-35
- 4AB4** Brain injury, weighted FIM motor 41-70, FIM cognition 17-25
- 4AB5** Brain injury, weighted FIM motor 41-70, FIM cognition 5-16
- 4AB6** Brain injury, weighted FIM motor 29-40
- 4AB7** Brain injury, weighted FIM motor 19-28
- 4API** Major Multiple Trauma, weighted FIM motor 19-91

All Brain Injury impairment codes

- **Non-traumatic brain injury**
 - 2.11 Sub-arachnoid haemorrhage
 - 2.12 Anoxic brain damage
 - 2.13 Other non-traumatic brain injury
- **Traumatic brain injury**
 - 2.21 Open injury
 - 2.22 Closed injury
- **Major Multiple Trauma**
 - 14.1 Brain injury + spinal cord injury
 - 14.2 Brain + multiple fracture/amputation

Brain Injury Length of Stay (LOS) and Functional Independence Measure (FIM) Change Benchmarks in Australia and New Zealand by AN-SNAP V3, Calendar Year 2025

AN-SNAP class	Specialist Brain Units †			Non Specialist Brain Units			All AROC Facilities					
	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)
Traumatic episodes												
3-202	46	124.4 (99.4 - 149.5)	64.9 (55.8 - 73.9)	6.8 (4.8 - 8.8)	16	94.1 (62.2 - 125.9)	53.4 (36.9 - 70.0)	5.3 (3.3 - 7.3)	62	116.6 (96.1 - 137.1)	61.9 (53.9 - 69.9)	6.4 (4.8 - 8.0)
3-210	22	11.0 (8.3 - 13.6)	10.4 (7.5 - 13.3)	9.5 (5.3 - 13.7)	75	12.4 (10.9 - 13.9)	14.0 (12.1 - 15.9)	10.6 (8.5 - 12.8)	97	12.1 (10.8 - 13.4)	13.2 (11.6 - 14.8)	10.4 (8.5 - 12.3)
3-211	131	23.7 (19.6 - 27.9)	13.1 (11.5 - 14.7)	5.3 (4.4 - 6.3)	120	15.5 (13.6 - 17.4)	16.0 (14.4 - 17.5)	9.2 (8.0 - 10.5)	251	19.8 (17.4 - 22.2)	14.5 (13.3 - 15.6)	7.2 (6.4 - 8.0)
3-212	100	31.6 (27.6 - 35.6)	19.8 (17.9 - 21.7)	6.0 (5.1 - 6.9)	44	20.8 (14.2 - 27.4)	19.2 (16.2 - 22.1)	10.4 (7.6 - 13.2)	144	28.3 (24.8 - 31.8)	19.6 (18.0 - 21.2)	7.3 (6.2 - 8.4)
3-213	134	38.2 (33.3 - 43.1)	28.5 (26.4 - 30.6)	7.2 (6.3 - 8.1)	48	31.8 (24.4 - 39.1)	24.8 (21.1 - 28.4)	8.8 (6.3 - 11.4)	182	36.5 (32.4 - 40.6)	27.5 (25.7 - 29.3)	7.6 (6.7 - 8.6)
3-214	105	60.4 (51.5 - 69.3)	48.8 (45.7 - 51.9)	8.4 (7.4 - 9.5)	247	28.1 (25.7 - 30.5)	34.6 (32.7 - 36.6)	11.4 (10.5 - 12.4)	352	37.8 (34.3 - 41.3)	38.8 (37.1 - 40.6)	10.6 (9.8 - 11.3)
3-215	47	115.9 (92.3 - 139.5)	62.7 (55.9 - 69.6)	6.6 (4.4 - 8.8)	30	54.4 (44.0 - 64.9)	30.9 (21.3 - 40.6)	5.2 (3.1 - 7.2)	77	92.0 (75.6 - 108.3)	50.4 (43.8 - 57.0)	6.1 (4.5 - 7.6)
3-238	13	14.4 (10.8 - 18.0)	11.2 (8.2 - 14.2)	7.4 (3.9 - 10.9)	16	17.9 (10.6 - 25.2)	7.9 (5.0 - 10.9)	5.0 (1.4 - 8.7)	29	16.3 (12.0 - 20.6)	9.4 (7.2 - 11.6)	6.1 (3.5 - 8.7)
3-239	48	28.5 (24.2 - 32.9)	30.5 (28.3 - 32.7)	9.4 (7.9 - 10.8)	56	23.2 (20.0 - 26.5)	24.8 (22.2 - 27.5)	9.8 (8.2 - 11.4)	104	25.7 (23.0 - 28.4)	27.5 (25.6 - 29.3)	9.6 (8.5 - 10.7)
3-240	48	58.4 (48.7 - 68.1)	54.1 (51.3 - 56.8)	9.8 (7.6 - 12.1)	49	41.9 (34.5 - 49.3)	43.2 (39.2 - 47.1)	9.0 (7.6 - 10.5)	97	50.1 (43.8 - 56.3)	48.6 (45.9 - 51.2)	9.4 (8.1 - 10.8)
3-241	22	86.2 (63.8 - 108.5)	69.1 (60.5 - 77.7)	7.6 (5.9 - 9.4)	7	54.1 (27.5 - 80.7)	52.6 (29.2 - 75.9)	8.8 (3.0 - 14.5)	29	78.4 (59.8 - 97.1)	65.1 (56.3 - 73.9)	7.9 (6.1 - 9.8)
Total episodes	716				708				1,424			
Non-Traumatic episodes												
3-202	20	135.1 (109.1 - 161.0)	41.9 (25.1 - 58.6)	2.8 (1.1 - 4.6)	30	85.6 (64.5 - 106.7)	43.9 (33.2 - 54.6)	4.7 (3.4 - 6.0)	50	105.4 (87.8 - 123.0)	43.1 (33.9 - 52.3)	4.0 (2.9 - 5.0)
3-210	22	11.6 (9.7 - 13.5)	16.7 (14.1 - 19.2)	11.7 (8.9 - 14.4)	117	12.6 (11.3 - 13.9)	14.2 (12.7 - 15.8)	10.2 (8.3 - 12.1)	139	12.4 (11.3 - 13.6)	14.6 (13.2 - 16.0)	10.4 (8.8 - 12.1)
3-211	28	16.1 (13.2 - 18.9)	15.9 (12.0 - 19.7)	7.6 (4.9 - 10.2)	189	15.2 (13.8 - 16.5)	17.6 (16.2 - 19.0)	10.7 (9.5 - 11.9)	217	15.3 (14.0 - 16.5)	17.4 (16.1 - 18.7)	10.3 (9.2 - 11.4)
3-212	14	31.6 (22.8 - 40.5)	11.2 (4.9 - 17.5)	2.3 (-0.2 - 4.7)	60	23.5 (19.1 - 27.9)	18.2 (15.3 - 21.1)	7.4 (6.0 - 8.7)	74	25.1 (21.1 - 29.0)	16.9 (14.2 - 19.6)	6.4 (5.1 - 7.7)
3-213	43	54.5 (45.0 - 64.1)	21.2 (17.6 - 24.9)	3.9 (2.7 - 5.1)	75	34.3 (27.7 - 40.9)	22.7 (19.6 - 25.8)	7.0 (5.7 - 8.3)	118	41.7 (36.0 - 47.4)	22.2 (19.8 - 24.5)	5.9 (4.9 - 6.8)
3-214	58	55.1 (46.0 - 64.2)	43.2 (36.9 - 49.4)	8.0 (6.4 - 9.6)	360	30.0 (27.7 - 32.3)	31.8 (30.1 - 33.5)	10.7 (9.7 - 11.6)	418	33.5 (31.0 - 36.0)	33.4 (31.7 - 35.1)	10.3 (9.5 - 11.1)
3-215	17	133.5 (80.7 - 186.3)	54.9 (42.4 - 67.4)	6.4 (3.1 - 9.8)	79	63.1 (53.7 - 72.4)	40.4 (34.5 - 46.3)	6.5 (4.9 - 8.1)	96	75.5 (62.5 - 88.6)	43.0 (37.5 - 48.4)	6.5 (5.1 - 7.9)
Total episodes	202				910				1,112			

• 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
 • NOTE 3: † Specialist unit benchmarks are used as the "reported benchmarks" in member benchmarking reports, live reporting and data extracts.

AN-SNAP V3 class descriptions

- 3-202** Brain, Neurological, Spinal & Major Multiple Trauma, FIM 13
- 3-210** Brain Injury, FIM motor 56-91, FIM cognition 32-35
- 3-211** Brain Injury, FIM motor 56-91, FIM cognition 24-31
- 3-212** Brain Injury, FIM motor 56-91, FIM cognition 20-23
- 3-213** Brain Injury, FIM motor 56-91, FIM cognition 5-19
- 3-214** Brain Injury, FIM motor 24-55
- 3-215** Brain Injury, FIM motor 14-23
- 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 Brain Injury impairment codes

- **Non-traumatic brain injury**
 - 2.11 Sub-arachnoid haemorrhage
 - 2.12 Anoxic brain damage
 - 2.13 Other non-traumatic brain injury
- **Traumatic brain injury**
 - 2.21 Open injury
 - 2.22 Closed injury
- **Major Multiple Trauma**
 - 14.1 Brain injury + spinal cord injury
 - 14.2 Brain + multiple fracture/amputation

Spinal Cord Injury Length of Stay (LOS) and Functional Independence Measure (FIM) Change Benchmarks in Australia and New Zealand by AN-SNAP V5, Calendar Year 2025

AN-SNAP class	Specialist Spinal Units †			Non Specialist Spinal Units			All AROC Facilities					
	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)
Traumatic episodes												
5AZ1	45	121.8 (104.6 - 139.1)	19.2 (13.8 - 24.6)	1.3 (0.9 - 1.7)	9	77.0 (43.0 - 111.0)	27.9 (13.5 - 42.3)	3.1 (1.4 - 4.8)	54	114.4 (98.4 - 130.3)	20.6 (15.5 - 25.8)	1.6 (1.2 - 2.1)
5AZ2	74	136.5 (119.4 - 153.7)	23.8 (18.5 - 29.1)	1.8 (1.1 - 2.4)	3	—	—	—	77	134.5 (117.8 - 151.2)	24.7 (19.4 - 30.1)	2.0 (1.2 - 2.7)
5AD1	29	46.7 (31.2 - 62.1)	13.2 (10.0 - 16.4)	5.6 (2.8 - 8.5)	40	16.4 (12.4 - 20.3)	14.1 (11.6 - 16.7)	9.7 (6.8 - 12.6)	69	29.1 (21.4 - 36.8)	13.8 (11.8 - 15.8)	8.0 (5.9 - 10.1)
5AD2	19	57.1 (38.2 - 75.9)	30.9 (24.8 - 37.0)	4.8 (2.4 - 7.3)	26	31.7 (24.2 - 39.3)	32.9 (28.7 - 37.2)	10.4 (7.5 - 13.2)	45	42.4 (32.7 - 52.1)	32.1 (28.5 - 35.6)	8.0 (5.9 - 10.1)
5AD3	86	112.3 (98.9 - 125.7)	38.4 (35.0 - 41.8)	3.7 (2.9 - 4.5)	27	59.1 (47.2 - 71.0)	34.1 (26.2 - 42.0)	6.4 (4.1 - 8.7)	113	99.6 (88.2 - 110.9)	37.4 (34.2 - 40.5)	4.4 (3.5 - 5.2)
5AP1	4	—	—	—	14	20.8 (15.2 - 26.4)	15.9 (9.7 - 22.1)	7.2 (3.8 - 10.7)	18	31.3 (16.3 - 46.3)	15.6 (10.0 - 21.1)	6.6 (3.7 - 9.5)
5AP2	10	117.4 (98.5 - 136.3)	44.0 (35.4 - 52.6)	2.7 (2.2 - 3.3)	13	104.2 (65.0 - 143.5)	45.8 (36.2 - 55.3)	4.6 (3.1 - 6.1)	23	110.0 (86.6 - 133.3)	45.0 (38.6 - 51.4)	3.8 (2.8 - 4.7)
Total episodes	267				132				399			
Non-Traumatic episodes												
5AZ1	18	111.0 (82.9 - 139.1)	29.6 (20.5 - 38.7)	2.3 (1.4 - 3.1)	16	62.4 (31.8 - 92.9)	18.5 (5.0 - 32.0)	3.7 (-0.3 - 7.7)	34	88.1 (66.1 - 110.1)	24.4 (16.3 - 32.4)	3.0 (1.0 - 4.9)
5AZ2	12	129.2 (87.4 - 171.1)	33.5 (19.4 - 47.6)	2.9 (0.9 - 4.9)	2	—	—	—	14	118.6 (80.0 - 157.1)	32.9 (19.5 - 46.3)	2.9 (1.1 - 4.7)
5AD1	32	40.2 (29.5 - 50.8)	16.2 (14.0 - 18.4)	4.4 (3.3 - 5.5)	151	18.7 (16.5 - 20.9)	17.1 (15.7 - 18.5)	8.9 (7.8 - 9.9)	183	22.5 (19.6 - 25.3)	17.0 (15.7 - 18.2)	8.1 (7.2 - 9.0)
5AD2	38	63.8 (51.6 - 76.0)	27.5 (23.8 - 31.2)	4.6 (3.3 - 5.8)	111	32.7 (29.0 - 36.4)	28.0 (25.8 - 30.2)	8.4 (7.2 - 9.6)	149	40.7 (36.0 - 45.3)	27.9 (26.0 - 29.8)	7.4 (6.4 - 8.4)
5AD3	73	111.7 (96.4 - 127.1)	33.3 (29.1 - 37.4)	3.7 (2.6 - 4.9)	84	52.6 (44.6 - 60.6)	31.9 (27.4 - 36.3)	6.4 (5.0 - 7.9)	157	80.1 (70.6 - 89.6)	32.5 (29.5 - 35.6)	5.2 (4.2 - 6.1)
Total episodes	173				364				537			

- 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
- NOTE 3: † Specialist unit benchmarks are used as the "reported benchmarks" in member benchmarking reports, live reporting and data extracts.

AN-SNAP V5 class descriptions

- 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 injury, Weighted FIM Motor 55 - 91
- 5AD2** Spinal cord injury, Weighted FIM Motor 37 - 54
- 5AD3** Spinal cord injury, 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 Injury impairment codes

- **Traumatic spinal cord injury**
 - 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 injury
- **Non traumatic spinal cord injury**
 - 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 injury
- **Major Multiple Trauma**
 - 14.1 Brain injury + spinal cord injury
 - 14.3 Spinal cord injury + multi fracture/amputation

Spinal Cord Injury Length of Stay (LOS) and Functional Independence Measure (FIM) Change Benchmarks in Australia and New Zealand by AN-SNAP V4, Calendar Year 2025

AN-SNAP class	Specialist Spinal Units †			Non Specialist Spinal Units			All AROC Facilities					
	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)
Traumatic episodes												
4AZ1	69	128.0 (111.3 - 144.7)	17.8 (13.5 - 22.1)	1.2 (0.9 - 1.6)	13	89.0 (55.6 - 122.4)	30.4 (19.5 - 41.3)	3.1 (1.8 - 4.4)	82	121.8 (106.5 - 137.1)	19.8 (15.7 - 23.9)	1.5 (1.1 - 1.9)
4AZ2	52	138.5 (119.2 - 157.8)	28.2 (21.6 - 34.9)	2.1 (1.2 - 2.9)	1	—	—	—	53	136.6 (117.3 - 155.9)	29.2 (22.4 - 36.0)	2.4 (1.4 - 3.3)
4AD1	26	46.8 (31.9 - 61.6)	24.2 (19.3 - 29.0)	6.0 (4.1 - 7.8)	47	21.5 (16.9 - 26.1)	20.0 (16.4 - 23.5)	8.6 (6.9 - 10.3)	73	30.5 (23.9 - 37.1)	21.5 (18.6 - 24.3)	7.7 (6.4 - 9.0)
4AD2	46	117.6 (97.6 - 137.6)	38.2 (33.8 - 42.5)	3.6 (2.6 - 4.5)	28	55.6 (43.9 - 67.3)	31.9 (24.7 - 39.2)	7.2 (4.3 - 10.1)	74	94.1 (79.3 - 109.0)	35.8 (31.9 - 39.7)	5.0 (3.7 - 6.3)
4AD3	27	56.9 (40.1 - 73.6)	19.0 (13.2 - 24.7)	4.9 (1.7 - 8.1)	13	19.0 (10.6 - 27.4)	20.9 (14.5 - 27.3)	13.4 (6.4 - 20.5)	40	44.5 (31.7 - 57.4)	19.6 (15.2 - 24.0)	7.7 (4.4 - 11.0)
4AD4	33	105.5 (89.7 - 121.2)	39.7 (33.7 - 45.7)	3.7 (2.4 - 5.0)	4	—	—	—	37	100.4 (85.2 - 115.6)	41.2 (35.5 - 46.8)	4.4 (2.8 - 6.1)
4AP1	14	103.3 (80.4 - 126.2)	35.5 (25.4 - 45.6)	3.2 (1.8 - 4.7)	26	54.9 (32.5 - 77.3)	29.2 (21.3 - 37.1)	6.1 (4.1 - 8.1)	40	71.8 (53.9 - 89.8)	31.4 (25.1 - 37.7)	5.1 (3.6 - 6.6)
Total episodes	267				132				399			
Non-Traumatic episodes												
4AZ1	25	122.1 (97.4 - 146.8)	31.2 (23.0 - 39.4)	2.2 (1.5 - 2.9)	18	68.4 (40.0 - 96.8)	20.6 (8.1 - 33.0)	3.6 (0.0 - 7.2)	43	99.6 (79.5 - 119.7)	26.7 (19.6 - 33.9)	2.8 (1.2 - 4.3)
4AZ2	6	109.5 (46.2 - 172.8)	35.3 (14.1 - 56.6)	3.9 (0.3 - 7.5)	2	—	—	—	8	95.8 (45.7 - 145.8)	33.8 (14.7 - 52.8)	3.6 (0.7 - 6.5)
4AD1	32	46.2 (34.8 - 57.6)	22.7 (18.9 - 26.5)	4.9 (3.8 - 6.0)	163	22.8 (20.1 - 25.5)	20.7 (19.2 - 22.3)	9.1 (8.1 - 10.1)	195	26.7 (23.5 - 29.8)	21.1 (19.6 - 22.5)	8.4 (7.5 - 9.3)
4AD2	68	108.5 (92.5 - 124.5)	31.0 (26.7 - 35.3)	3.7 (2.5 - 4.9)	98	48.6 (41.7 - 55.4)	30.7 (27.0 - 34.4)	6.1 (5.0 - 7.3)	166	73.1 (64.2 - 82.0)	30.8 (28.0 - 33.6)	5.1 (4.3 - 6.0)
4AD3	29	46.7 (35.5 - 57.8)	21.9 (18.1 - 25.8)	4.8 (3.3 - 6.3)	71	24.2 (20.6 - 27.8)	20.7 (17.9 - 23.5)	8.6 (6.9 - 10.4)	100	30.7 (26.1 - 35.3)	21.1 (18.8 - 23.3)	7.5 (6.2 - 8.9)
4AD4	13	115.2 (86.6 - 143.7)	35.8 (26.1 - 45.5)	2.9 (1.7 - 4.0)	12	37.4 (22.1 - 52.7)	36.6 (23.3 - 49.9)	8.9 (5.6 - 12.1)	25	77.8 (55.4 - 100.3)	36.2 (28.2 - 44.1)	5.7 (3.7 - 7.8)
Total episodes	173				364				537			

• 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
 • NOTE 3: † Specialist unit benchmarks are used as the "reported benchmarks" in member benchmarking reports, live reporting and data extracts.

AN-SNAP V4 class descriptions

- 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 injury, Age ≥ 50, weighted FIM motor 42-91
- 4AD2** Spinal cord injury, Age ≥ 50, weighted FIM motor 19-41
- 4AD3** Spinal cord injury, Age ≤ 49, weighted FIM motor 34-91
- 4AD4** Spinal cord injury, Age ≤ 49, weighted FIM motor 19-33
- 4AP1** Major Multiple Trauma, weighted FIM motor 19-91

All Spinal Cord Injury impairment codes

- **Traumatic spinal cord injury**
 - 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 injury
- **Non traumatic spinal cord injury**
 - 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 injury
- **Major Multiple Trauma**
 - 14.1 Brain injury + spinal cord injury
 - 14.3 Spinal cord injury + multi fracture/amputation

Spinal Cord Injury Length of Stay (LOS) and Functional Independence Measure (FIM) Change Benchmarks in Australia and New Zealand by AN-SNAP V3, Calendar Year 2025

AN-SNAP class	Specialist Spinal Units †			Non Specialist Spinal Units			All AROC Facilities					
	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)	No.	Length of stay Mean (95%CI)	FIM change Mean (95%CI)	FIM Efficiency Weekly Mean (95%CI)
Traumatic episodes												
3-202	74	138.5 (121.6 - 155.3)	18.3 (14.1 - 22.5)	1.3 (0.8 - 1.8)	3	—	—	—	77	134.6 (117.9 - 151.3)	19.2 (14.9 - 23.5)	1.6 (1.0 - 2.2)
3-220	3	—	—	—	5	13.0 (6.7 - 19.3)	2.6 (0.6 - 4.6)	1.4 (0.1 - 2.6)	8	21.5 (5.7 - 37.3)	3.0 (1.7 - 4.3)	1.4 (0.5 - 2.2)
3-221	36	50.1 (35.1 - 65.1)	18.3 (14.3 - 22.2)	5.8 (3.2 - 8.3)	48	20.0 (15.6 - 24.5)	19.7 (16.7 - 22.8)	10.6 (8.2 - 13.0)	84	32.9 (25.4 - 40.5)	19.1 (16.7 - 21.5)	8.5 (6.7 - 10.3)
3-222	101	113.4 (100.1 - 126.7)	34.0 (30.2 - 37.8)	3.3 (2.6 - 4.0)	43	59.6 (48.1 - 71.1)	31.4 (25.9 - 37.0)	6.5 (4.4 - 8.6)	144	97.3 (86.6 - 108.0)	33.2 (30.1 - 36.3)	4.3 (3.4 - 5.1)
3-223	34	105.2 (91.4 - 119.1)	40.4 (34.2 - 46.6)	3.5 (2.5 - 4.6)	5	47.0 (19.0 - 75.0)	51.4 (40.6 - 62.2)	11.2 (3.8 - 18.7)	39	97.8 (83.8 - 111.7)	41.8 (36.1 - 47.5)	4.5 (3.0 - 6.0)
3-238	1	—	—	—	7	20.7 (12.4 - 29.0)	6.9 (3.8 - 9.9)	3.1 (1.6 - 4.7)	8	34.2 (6.8 - 61.7)	6.8 (4.1 - 9.4)	2.8 (1.3 - 4.3)
3-239	5	68.2 (28.6 - 107.8)	21.6 (9.5 - 33.7)	4.4 (0.4 - 8.4)	8	25.9 (16.9 - 34.9)	28.9 (21.7 - 36.1)	10.5 (5.7 - 15.3)	13	42.2 (23.0 - 61.3)	26.1 (19.7 - 32.5)	8.2 (4.6 - 11.8)
3-240	9	107.9 (83.6 - 132.1)	33.8 (22.3 - 45.2)	2.3 (1.5 - 3.1)	9	87.1 (46.7 - 127.5)	48.4 (39.8 - 57.1)	5.5 (3.7 - 7.3)	18	97.5 (74.1 - 120.9)	41.1 (33.3 - 48.9)	3.9 (2.6 - 5.1)
3-241	5	123.6 (74.3 - 172.9)	37.8 (10.4 - 65.2)	1.8 (0.7 - 2.9)	4	—	—	—	9	134.0 (90.5 - 177.5)	37.0 (18.7 - 55.3)	2.0 (1.0 - 3.0)
Total episodes	268				132				400			
Non-Traumatic episodes												
3-202	12	148.2 (101.2 - 195.2)	25.6 (15.5 - 35.7)	2.0 (0.6 - 3.5)	4	—	—	—	16	126.6 (85.6 - 167.6)	26.9 (16.6 - 37.1)	2.4 (1.0 - 3.8)
3-220	1	—	—	—	8	21.4 (4.4 - 38.4)	3.6 (1.2 - 6.0)	4.9 (-0.8 - 10.7)	9	21.4 (6.4 - 36.5)	3.4 (1.3 - 5.6)	4.5 (-0.7 - 9.6)
3-221	48	44.3 (35.3 - 53.3)	19.8 (17.1 - 22.4)	4.8 (3.8 - 5.9)	200	22.5 (20.3 - 24.8)	19.8 (18.5 - 21.1)	8.7 (7.8 - 9.6)	248	26.8 (24.0 - 29.5)	19.8 (18.6 - 21.0)	8.0 (7.2 - 8.7)
3-222	105	103.5 (91.6 - 115.3)	32.5 (29.1 - 35.9)	3.7 (2.8 - 4.5)	146	47.1 (41.0 - 53.1)	30.0 (26.9 - 33.1)	6.8 (5.7 - 7.9)	251	70.7 (63.7 - 77.6)	31.0 (28.7 - 33.3)	5.5 (4.8 - 6.3)
3-223	7	89.3 (60.3 - 118.3)	36.7 (22.7 - 50.7)	3.0 (1.5 - 4.5)	6	30.8 (18.6 - 43.1)	38.8 (17.8 - 59.9)	12.4 (3.7 - 21.0)	13	62.3 (39.3 - 85.3)	37.7 (25.9 - 49.5)	7.3 (2.6 - 12.0)
Total episodes	173				364				537			

• 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
 • NOTE 3: † Specialist unit benchmarks are used as the "reported benchmarks" in member benchmarking reports, live reporting and data extracts.

AN-SNAP V3 class descriptions

- 3-202** Brain, Neurological, Spinal & Major Multiple Trauma, FIM 13
- 3-220** Spinal Cord Injury, FIM motor 81-91
- 3-221** Spinal Cord Injury, FIM motor 47-80
- 3-222** Spinal Cord Injury, FIM motor 14-46, age>=33
- 3-223** Spinal Cord Injury, 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 Injury impairment codes

- **Traumatic spinal cord injury**
 - 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 injury
- **Non traumatic spinal cord injury**
 - 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 injury
- **Major Multiple Trauma**
 - 14.1 Brain injury + spinal cord injury
 - 14.3 Spinal cord injury + multi fracture/amputation