

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



AN-SNAP class	Specialist Brain Units				Non Specialist Brain Units				All AROC Facilities			
	Length of stay		FIM change	FIM gain	Length of stay		FIM change	FIM gain	Length of stay		FIM change	FIM gain
	No.	Mean (95%CI)	Mean (95%CI)	per week	No.	Mean (95%CI)	Mean (95%CI)	per week	No.	Mean (95%CI)	Mean (95%CI)	per week
Traumatic episodes												
5AZ1	19	121.5 (98.0 - 144.9)	47.2 (31.1 - 63.2)	2.7	23	63.1 (47.0 - 79.1)	41.3 (29.3 - 53.3)	4.6	42	89.5 (73.2 - 105.8)	43.9 (34.2 - 53.7)	3.4
5AZ2	68	114.3 (94.6 - 133.9)	64.6 (57.1 - 72.1)	4.0	6	113.8 (49.6 - 178.0)	65.7 (45.9 - 85.4)	4.0	74	114.2 (95.7 - 132.8)	64.7 (57.7 - 71.6)	4.0
5ABI	81	17.6 (15.3 - 20.0)	10.8 (9.0 - 12.7)	4.3	139	14.2 (12.6 - 15.9)	13.7 (12.3 - 15.0)	6.7	220	15.5 (14.1 - 16.9)	12.6 (11.5 - 13.8)	5.7
5AB2	7	34.1 (19.2 - 49.1)	34.3 (25.6 - 43.0)	7.0	97	22.0 (18.6 - 25.3)	31.3 (28.6 - 33.9)	10.0	104	22.8 (19.5 - 26.1)	31.5 (29.0 - 33.9)	9.7
5AB3	158	35.5 (28.9 - 42.2)	19.6 (17.8 - 21.5)	3.9	137	17.7 (15.7 - 19.7)	20.1 (18.4 - 21.9)	8.0	295	27.2 (23.4 - 31.0)	19.9 (18.6 - 21.1)	5.1
5AB4	22	67.6 (47.6 - 87.7)	51.8 (46.6 - 56.9)	5.4	72	30.1 (25.6 - 34.6)	34.0 (30.3 - 37.7)	7.9	94	38.9 (32.3 - 45.5)	38.2 (34.7 - 41.6)	6.9
5AB5	144	44.2 (37.6 - 50.8)	33.8 (31.2 - 36.5)	5.4	91	32.4 (26.9 - 37.8)	30.1 (26.8 - 33.5)	6.5	235	39.6 (35.0 - 44.2)	32.4 (30.3 - 34.5)	5.7
5AB6	38	84.8 (60.6 - 109.1)	66.3 (59.6 - 73.1)	5.5	33	43.5 (33.1 - 54.0)	45.8 (37.6 - 53.9)	7.4	71	65.6 (50.9 - 80.3)	56.8 (51.0 - 62.5)	6.1
5API	66	26.8 (21.8 - 31.7)	25.6 (22.5 - 28.7)	6.7	63	21.2 (17.7 - 24.7)	20.3 (17.9 - 22.7)	6.7	129	24.0 (21.0 - 27.1)	23.0 (21.0 - 25.0)	6.7
5AP2	53	59.3 (50.1 - 68.5)	55.4 (51.3 - 59.4)	6.5	62	44.6 (37.9 - 51.2)	45.8 (42.5 - 49.2)	7.2	115	51.4 (45.6 - 57.1)	50.2 (47.5 - 52.9)	6.8
Total episodes	656				723				1,379			
Non-Traumatic episodes												
5AZ1	11	111.5 (97.8 - 125.3)	45.9 (25.8 - 66.0)	2.9	37	60.3 (47.5 - 73.1)	43.5 (33.1 - 53.8)	5.0	48	72.0 (60.0 - 84.1)	44.0 (34.9 - 53.2)	4.3
5AZ2	17	122.4 (86.3 - 158.5)	46.2 (28.8 - 63.6)	2.6	21	107.0 (81.3 - 132.8)	41.0 (29.0 - 53.0)	2.7	38	113.9 (92.7 - 135.1)	43.3 (33.3 - 53.3)	2.7
5ABI	51	16.5 (13.6 - 19.4)	14.1 (11.6 - 16.7)	6.0	237	12.8 (11.9 - 13.8)	15.5 (14.5 - 16.5)	8.5	288	13.5 (12.5 - 14.4)	15.3 (14.3 - 16.2)	7.9
5AB2	6	19.8 (15.4 - 24.2)	27.3 (14.8 - 39.9)	9.6	165	23.8 (21.2 - 26.4)	31.1 (29.0 - 33.1)	9.1	171	23.7 (21.2 - 26.2)	30.9 (28.9 - 33.0)	9.1
5AB3	52	27.2 (21.8 - 32.5)	19.6 (16.3 - 22.8)	5.0	191	20.6 (18.1 - 23.1)	20.9 (19.1 - 22.7)	7.1	243	22.0 (19.7 - 24.3)	20.6 (19.0 - 22.2)	6.6
5AB4	15	63.3 (34.2 - 92.4)	40.9 (29.9 - 52.0)	4.5	118	31.3 (27.7 - 35.0)	32.8 (29.3 - 36.3)	7.3	133	34.9 (30.0 - 39.9)	33.7 (30.3 - 37.1)	6.8
5AB5	56	51.8 (41.5 - 62.1)	25.8 (20.7 - 30.9)	3.5	120	32.5 (27.7 - 37.3)	24.6 (22.2 - 27.1)	5.3	176	38.6 (33.8 - 43.4)	25.0 (22.7 - 27.3)	4.5
5AB6	22	69.0 (53.5 - 84.6)	52.3 (40.3 - 64.3)	5.3	73	48.8 (38.2 - 59.3)	42.8 (36.9 - 48.8)	6.1	95	53.5 (44.5 - 62.5)	45.0 (39.7 - 50.4)	5.9
Total episodes	230				962				1,192			

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

All Brain Dysfunction impairment codes

Non-traumatic brain dysfunction

- 2.11 Sub-arachnoid haemorrhage
- 2.12 Anoxic brain damage
- 2.13 Other non-traumatic brain dysfunction

Traumatic brain dysfunction

- 2.21 Open injury
- 2.22 Closed injury

Major Multiple Trauma

- 14.1 Brain + spinal cord injury
- 14.2 Brain + multiple fracture/amputation

Brain Dysfunction LOS and FIM Change Benchmarks in Australia and New Zealand by AN-SNAP V4, Financial Year 2025



AN-SNAP class	Specialist Brain Units				Non Specialist Brain Units				All AROC Facilities			
	Length of stay		FIM change	FIM gain	Length of stay		FIM change	FIM gain	Length of stay		FIM change	FIM gain
	No.	Mean (95%CI)	Mean (95%CI)	per week	No.	Mean (95%CI)	Mean (95%CI)	per week	No.	Mean (95%CI)	Mean (95%CI)	per week
Traumatic episodes												
4AZ1	23	118.7 (96.3 - 141.1)	55.3 (40.9 - 69.8)	3.3	25	66.5 (51.9 - 81.1)	47.1 (35.3 - 59.0)	5.0	48	91.5 (76.4 - 106.6)	51.1 (41.8 - 60.3)	3.9
4AZ2	56	117.1 (94.3 - 139.9)	63.0 (54.4 - 71.6)	3.8	4	na na	na na	na	60	117.8 (95.6 - 140.0)	62.8 (54.6 - 71.0)	3.7
4AB1	84	17.8 (15.3 - 20.2)	9.7 (8.1 - 11.3)	3.8	93	13.4 (11.2 - 15.5)	10.1 (8.6 - 11.6)	5.3	177	15.5 (13.8 - 17.1)	9.9 (8.8 - 11.0)	4.5
4AB2	146	32.5 (26.8 - 38.2)	16.2 (14.8 - 17.7)	3.5	71	18.6 (16.0 - 21.2)	16.1 (14.0 - 18.2)	6.1	217	28.0 (23.9 - 32.0)	16.2 (15.0 - 17.4)	4.1
4AB3	19	40.1 (14.8 - 65.4)	29.5 (25.2 - 33.8)	5.1	147	17.5 (15.4 - 19.6)	24.9 (23.1 - 26.6)	10.0	166	20.1 (16.5 - 23.6)	25.4 (23.8 - 27.0)	8.9
4AB4	76	51.8 (38.9 - 64.6)	35.1 (32.2 - 37.9)	4.7	121	23.8 (21.1 - 26.6)	27.5 (25.3 - 29.7)	8.1	197	34.6 (29.1 - 40.1)	30.4 (28.6 - 32.2)	6.2
4AB5	76	47.4 (40.2 - 54.7)	42.2 (39.5 - 45.0)	6.2	55	36.9 (28.7 - 45.1)	34.5 (30.1 - 38.9)	6.6	131	43.0 (37.5 - 48.5)	39.0 (36.5 - 41.5)	6.3
4AB6	19	60.3 (44.2 - 76.4)	59.7 (53.5 - 65.9)	6.9	58	33.6 (27.4 - 39.7)	43.4 (38.9 - 48.0)	9.1	77	40.2 (33.6 - 46.7)	47.5 (43.4 - 51.5)	8.3
4AB7	39	89.7 (65.7 - 113.7)	65.8 (57.7 - 73.8)	5.1	26	43.6 (32.4 - 54.8)	36.9 (27.6 - 46.1)	5.9	65	71.3 (55.4 - 87.1)	54.2 (47.3 - 61.1)	5.3
4API	118	41.3 (35.5 - 47.0)	38.5 (34.9 - 42.1)	6.5	123	32.6 (28.3 - 36.9)	32.5 (29.5 - 35.5)	7.0	241	36.9 (33.2 - 40.5)	35.4 (33.0 - 37.8)	6.7
Total episodes	656				723				1,379			
Non-Traumatic episodes												
4AZ1	13	113.0 (96.1 - 129.9)	47.2 (26.6 - 67.7)	2.9	39	80.4 (64.2 - 96.6)	45.2 (35.2 - 55.1)	3.9	52	88.6 (75.3 - 101.8)	45.7 (36.7 - 54.6)	3.6
4AZ2	12	122.3 (75.2 - 169.3)	45.3 (24.8 - 65.7)	2.6	8	102.5 (56.2 - 148.8)	37.9 (14.6 - 61.1)	2.6	20	114.4 (81.2 - 147.5)	42.3 (27.3 - 57.3)	2.6
4AB1	41	15.4 (12.5 - 18.4)	12.2 (9.9 - 14.5)	5.5	137	12.3 (10.9 - 13.6)	10.9 (9.7 - 12.0)	6.2	178	13.0 (11.8 - 14.2)	11.2 (10.1 - 12.2)	6.0
4AB2	61	34.9 (28.0 - 41.8)	14.4 (12.3 - 16.6)	2.9	93	23.6 (18.8 - 28.4)	14.4 (12.4 - 16.4)	4.3	154	28.1 (24.0 - 32.1)	14.4 (13.0 - 15.9)	3.6
4AB3	25	19.0 (15.2 - 22.8)	22.8 (18.4 - 27.3)	8.4	263	18.1 (16.5 - 19.8)	25.7 (24.5 - 26.9)	9.9	288	18.2 (16.7 - 19.8)	25.5 (24.3 - 26.6)	9.8
4AB4	25	36.8 (26.2 - 47.3)	35.4 (30.5 - 40.3)	6.7	173	23.3 (21.3 - 25.4)	26.9 (25.0 - 28.9)	8.1	198	25.0 (22.7 - 27.3)	28.0 (26.2 - 29.9)	7.8
4AB5	16	78.6 (56.1 - 101.2)	37.4 (26.0 - 48.7)	3.3	64	35.8 (28.6 - 43.0)	27.0 (23.4 - 30.6)	5.3	80	44.3 (36.1 - 52.6)	29.1 (25.3 - 32.8)	4.6
4AB6	26	60.3 (45.3 - 75.4)	46.4 (36.0 - 56.7)	5.4	108	36.1 (30.5 - 41.8)	33.6 (29.4 - 37.9)	6.5	134	40.8 (35.2 - 46.4)	36.1 (32.1 - 40.2)	6.2
4AB7	11	102.9 (68.0 - 137.8)	55.2 (38.8 - 71.5)	3.8	77	48.2 (39.2 - 57.3)	45.9 (40.7 - 51.2)	6.7	88	55.1 (45.3 - 64.8)	47.1 (42.1 - 52.1)	6.0
Total episodes	230				962				1,192			

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

All Brain Dysfunction impairment codes

Non-traumatic brain dysfunction

- 2.11 Sub-arachnoid haemorrhage
- 2.12 Anoxic brain damage
- 2.13 Other non-traumatic brain dysfunction

Traumatic brain dysfunction

- 2.21 Open injury
- 2.22 Closed injury

Major Multiple Trauma

- 14.1 Brain + spinal cord injury
- 14.2 Brain + multiple fracture/amputation

Brain Dysfunction LOS and FIM Change Benchmarks in Australia and New Zealand by AN-SNAP V3, Financial Year 2025



AN-SNAP class	Specialist Brain Units				Non Specialist Brain 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)	
Traumatic episodes												
3-202	51	122.0 (97.5 - 146.4)	58.0 (48.4 - 67.6)	3.3	16	89.4 (59.6 - 119.1)	53.4 (38.0 - 68.8)	4.2	67	114.2 (94.2 - 134.1)	56.9 (48.8 - 65.0)	3.5
3-210	17	11.5 (8.8 - 14.3)	9.8 (6.3 - 13.2)	5.9	69	12.5 (10.9 - 14.1)	13.7 (11.8 - 15.5)	7.7	86	12.3 (10.9 - 13.7)	12.9 (11.2 - 14.6)	7.3
3-211	114	22.8 (18.2 - 27.4)	12.6 (10.8 - 14.3)	3.9	134	15.6 (13.7 - 17.6)	15.9 (14.3 - 17.5)	7.1	248	18.9 (16.5 - 21.4)	14.4 (13.2 - 15.6)	5.3
3-212	84	33.4 (27.1 - 39.6)	19.8 (17.6 - 21.9)	4.1	46	19.2 (15.4 - 23.1)	18.7 (16.0 - 21.3)	6.8	130	28.4 (23.9 - 32.8)	19.4 (17.7 - 21.1)	4.8
3-213	115	44.2 (34.8 - 53.6)	28.7 (26.1 - 31.3)	4.5	53	30.4 (22.0 - 38.9)	24.6 (20.9 - 28.2)	5.7	168	39.8 (32.8 - 46.8)	27.4 (25.3 - 29.5)	4.8
3-214	101	54.5 (46.9 - 62.1)	48.9 (45.6 - 52.2)	6.3	249	27.5 (25.1 - 30.0)	34.1 (32.1 - 36.1)	8.7	350	35.3 (32.3 - 38.4)	38.4 (36.6 - 40.2)	7.6
3-215	38	110.3 (86.7 - 133.9)	63.8 (54.5 - 73.1)	4.0	28	43.2 (33.1 - 53.2)	35.8 (26.5 - 45.0)	5.8	66	81.8 (65.4 - 98.2)	51.9 (44.5 - 59.4)	4.4
3-238	18	16.7 (11.9 - 21.6)	9.9 (6.7 - 13.2)	4.2	11	16.2 (11.0 - 21.4)	8.0 (4.6 - 11.4)	3.5	29	16.5 (13.0 - 20.0)	9.2 (6.9 - 11.5)	3.9
3-239	45	29.4 (23.8 - 35.1)	30.2 (27.9 - 32.4)	7.2	56	23.3 (19.4 - 27.2)	25.3 (22.9 - 27.7)	7.6	101	26.0 (22.7 - 29.4)	27.5 (25.7 - 29.2)	7.4
3-240	47	62.1 (51.0 - 73.2)	53.0 (49.7 - 56.2)	6.0	47	45.3 (37.4 - 53.2)	45.4 (41.5 - 49.4)	7.0	94	53.7 (46.7 - 60.7)	49.2 (46.5 - 51.9)	6.4
3-241	26	84.5 (61.9 - 107.1)	67.5 (57.0 - 77.9)	5.6	14	53.5 (36.4 - 70.6)	44.9 (33.2 - 56.5)	5.9	40	73.7 (57.3 - 90.0)	59.6 (51.0 - 68.1)	5.7
Total episodes	656				723				1,379			
Non-Traumatic episodes												
3-202	19	127.1 (98.1 - 156.0)	41.4 (24.3 - 58.4)	2.3	29	82.0 (61.4 - 102.5)	43.9 (32.9 - 54.9)	3.8	48	99.8 (81.8 - 117.8)	42.9 (33.5 - 52.4)	3.0
3-210	21	13.4 (9.7 - 17.1)	14.9 (11.8 - 18.1)	7.8	115	13.8 (11.9 - 15.7)	16.0 (14.5 - 17.5)	8.1	136	13.7 (12.0 - 15.4)	15.8 (14.5 - 17.1)	8.1
3-211	52	18.8 (16.0 - 21.6)	14.1 (11.3 - 16.8)	5.2	212	15.1 (13.3 - 16.8)	17.5 (16.2 - 18.8)	8.1	264	15.8 (14.3 - 17.3)	16.8 (15.6 - 18.0)	7.5
3-212	19	31.0 (21.8 - 40.2)	18.3 (13.7 - 22.8)	4.1	76	22.0 (17.9 - 26.0)	17.0 (14.2 - 19.8)	5.4	95	23.8 (20.0 - 27.6)	17.3 (14.8 - 19.7)	5.1
3-213	49	48.5 (38.3 - 58.7)	19.4 (16.6 - 22.3)	2.8	75	32.7 (26.3 - 39.1)	23.3 (20.4 - 26.2)	5.0	124	38.9 (33.2 - 44.7)	21.8 (19.7 - 23.9)	3.9
3-214	54	51.9 (41.4 - 62.5)	44.1 (37.7 - 50.5)	5.9	381	29.3 (26.9 - 31.6)	31.3 (29.6 - 32.9)	7.5	435	32.1 (29.6 - 34.6)	32.9 (31.2 - 34.6)	7.2
3-215	16	100.4 (75.3 - 125.4)	55.8 (42.9 - 68.7)	3.9	74	55.6 (44.6 - 66.6)	46.5 (40.3 - 52.7)	5.9	90	63.6 (53.0 - 74.2)	48.2 (42.6 - 53.8)	5.3
Total episodes	230				962				1,192			

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 Brain Dysfunction

Class	Description of AN-SNAP class
3-202	Brain, Neurological, Spinal & Major Multiple Trauma, FIM 13
3-210	Brain Dysfunction, FIM motor 56-91, FIM cognition 32-35
3-211	Brain Dysfunction, FIM motor 56-91, FIM cognition 24-31
3-212	Brain Dysfunction, FIM motor 56-91, FIM cognition 20-23
3-213	Brain Dysfunction, FIM motor 56-91, FIM cognition 5-19
3-214	Brain Dysfunction, FIM motor 24-55
3-215	Brain Dysfunction, 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 Dysfunction impairment codes

Non-traumatic brain dysfunction

- 2.11 Sub-arachnoid haemorrhage
- 2.12 Anoxic brain damage
- 2.13 Other non-traumatic brain dysfunction

Traumatic brain dysfunction

- 2.21 Open injury
- 2.22 Closed injury

Major Multiple Trauma

- 14.1 Brain + spinal cord injury
- 14.2 Brain + multiple fracture/amputation