

Length of stay and functional improvement of completed episodes of rehabilitation in New Zealand, by impairment and age, AROC financial year 2014

Impairment group	Aged under 65				Aged 65 and over				New Zealand National			
	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)	
Stroke - haemorrhagic	131	34.9 (29.9–39.9)	25.4 (21.9–28.9)	5.1	362	26.4 (24.4–28.4)	20.4 (18.6–22.3)	5.4	494	28.7 (26.7–30.7)	21.7 (20.1–23.4)	5.3
Stroke - ischaemic	239	32.0 (28.4–35.6)	26.4 (24.2–28.6)	5.8	923	26.2 (24.9–27.4)	20.2 (19.1–21.3)	5.4	1,169	27.3 (26.1–28.6)	21.5 (20.5–22.5)	5.5
Stroke - V3 data*	0	n.a.	n.a.	n.a.	0	n.a.	n.a.	n.a.	0	n.a.	n.a.	n.a.
Brain - NO trauma	106	30.0 (25.0–35.1)	27.7 (23.7–31.7)	6.5	96	22.0 (18.4–25.6)	17.8 (14.2–21.5)	5.7	203	28.0 (23.3–32.7)	23.0 (20.2–25.8)	5.7
Brain - trauma	147	32.0 (25.7–38.2)	29.3 (25.1–33.5)	6.4	77	27.7 (22.7–32.6)	21.7 (17.4–26.0)	5.5	224	30.5 (26.0–34.9)	26.6 (23.5–29.8)	6.1
Neurological	112	32.2 (26.1–38.3)	18.8 (15.7–21.9)	4.1	158	20.6 (18.0–23.2)	14.1 (11.7–16.5)	4.8	271	25.5 (22.5–28.5)	16.0 (14.1–18.0)	4.4
Spinal cord - NO trauma	55	43.3 (34.1–52.4)	25.6 (20.4–30.8)	4.1	40	47.8 (36.8–58.8)	25.0 (20.5–29.5)	3.7	95	45.2 (38.2–52.2)	25.4 (21.8–28.9)	3.9
Spinal cord - trauma	65	70.4 (59.0–81.8)	32.0 (26.8–37.3)	3.2	14	64.9 (33.0–96.7)	22.4 (10.6–34.1)	2.4	80	69.5 (58.8–80.2)	30.1 (25.3–34.9)	3.0
Amputee - NO trauma	71	25.6 (21.4–29.9)	15.1 (12.2–18.0)	4.1	103	31.0 (27.1–34.9)	16.9 (13.9–19.9)	3.8	175	28.9 (26.0–31.7)	16.2 (14.0–18.3)	3.9
Amputee - trauma	10	23.9 (14.6–33.2)	13.7 (6.7–20.7)	4.0	8	25.4 (14.3–36.5)	21.4 (10.1–32.6)	5.9	18	24.6 (17.6–31.5)	17.1 (10.7–23.5)	4.9
Amputee - V3 data*	0	n.a.	n.a.	n.a.	0	n.a.	n.a.	n.a.	0	n.a.	n.a.	n.a.
Arthritis	4	n.a.	n.a.	n.a.	33	17.7 (11.4–23.9)	16.3 (12.4–20.2)	6.5	37	17.9 (12.3–23.6)	16.4 (12.6–20.2)	6.4
Pain	11	22.5 (13.1–31.8)	15.8 (9.5–22.0)	4.9	263	16.3 (14.9–17.7)	13.4 (11.8–15.0)	5.8	275	16.5 (15.1–17.9)	13.5 (11.9–15.0)	5.7
Ortho - fractures	156	19.4 (16.6–22.1)	17.6 (15.7–19.6)	6.4	3,176	19.9 (19.4–20.3)	18.9 (18.4–19.4)	6.7	3,350	19.8 (19.4–20.3)	18.9 (18.4–19.3)	6.7
Ortho - replacements	19	18.4 (12.8–24.0)	20.5 (13.9–27.0)	7.8	286	15.0 (13.8–16.2)	18.4 (16.9–19.9)	8.6	306	15.3 (14.1–16.5)	18.5 (17.1–20.0)	8.5
Ortho - soft tissue injury	13	26.0 (12.1–39.9)	19.2 (8.6–29.8)	5.2	326	15.8 (14.7–16.9)	16.5 (15.0–17.9)	7.3	340	16.2 (15.0–17.4)	16.5 (15.1–18.0)	7.1
Ortho - others	28	18.0 (13.4–22.6)	15.4 (11.6–19.3)	6.0	97	18.0 (15.1–21.0)	16.6 (14.2–19.0)	6.5	127	18.2 (15.7–20.7)	16.3 (14.3–18.4)	6.3
Cardiac	8	8.8 (4.2–13.3)	9.6 (3.0–16.2)	7.7	129	15.3 (13.4–17.2)	13.6 (11.4–15.9)	6.2	138	14.9 (13.1–16.7)	13.6 (11.5–15.7)	6.4
Pulmonary	5	10.0 (3.3–16.7)	9.6 (4.3–14.9)	6.7	83	24.4 (15.6–33.2)	13.5 (10.4–16.5)	3.9	89	23.6 (15.4–31.9)	13.1 (10.3–16.0)	3.9
Burns	0	n.a.	n.a.	n.a.	1	n.a.	n.a.	n.a.	1	n.a.	n.a.	n.a.
Congenital deformity	3	n.a.	n.a.	n.a.	0	n.a.	n.a.	n.a.	4	n.a.	n.a.	n.a.
Other disabling imp.	27	16.3 (11.3–21.4)	14.3 (9.2–19.4)	6.1	582	20.3 (18.7–21.8)	12.2 (11.2–13.2)	4.2	614	20.1 (18.6–21.6)	12.3 (11.3–13.3)	4.3
Multiple trauma	62	43.3 (32.8–53.7)	37.7 (31.6–43.9)	6.1	18	31.0 (13.4–48.6)	23.9 (15.2–32.6)	5.4	80	40.5 (31.5–49.6)	34.6 (29.3–39.9)	6.0
Developmental disability	3	n.a.	n.a.	n.a.	3	n.a.	n.a.	n.a.	6	28.0 (3.0–53.0)	9.7 (-2.5–21.8)	2.4
Re-conditioning	195	25.2 (22.3–28.1)	17.9 (15.9–19.9)	5.0	2,468	18.0 (17.3–18.6)	13.7 (13.2–14.3)	5.3	2,670	18.5 (17.9–19.1)	14.1 (13.5–14.6)	5.3
Missing or excluded	103				645				763			
All episodes	1,573	31.0 (29.4–32.6)	23.3 (22.3–24.2)	5.2	9,891	20.3 (19.9–20.6)	16.8 (16.5–17.1)	5.8	11,529	21.8 (21.4–22.1)	17.7 (17.4–18.0)	5.7

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

NOTE 2: Incomplete episodes are excluded from analysis

AN-SNAP V3 inpatient overnight rehabilitation classes

Class	Description of AN-SNAP class
3-201	Rehabilitation, admit for assessment only
3-202	Brain, Neurological, Spinal & Major Multiple Trauma, FIM 13
3-203	All other impairments, FIM 13
3-204	Stroke , FIM motor 63-91, FIM cognition 20-35
3-205	Stroke , FIM motor 63-91, FIM cognition 5-19
3-206	Stroke, FIM motor 47-62, FIM cognition 16-35
3-207	Stroke, FIM motor 47-62, FIM cognition 5-15
3-208	Stroke, FIM motor 14-46, age>=75
3-209	Stroke, FIM motor 14-46, age<=74
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
3-216	Neurological, FIM motor 63-91
3-217	Neurological, FIM motor 49-62
3-218	Neurological, FIM motor 18-48
3-219	Neurological, FIM motor 14-17
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

Class	Description of AN-SNAP Classes
3-224	Amputation of limb, FIM motor 72-91
3-225	Amputation of limb, FIM motor 14-71
3-226	Pain Syndromes
3-227	Orthopaedic conditions, fractures, FIM motor 58-91
3-228	Orthopaedic conditions, fractures, FIM motor 48-57
3-229	Orthopaedic conditions, fractures, FIM motor 14-47, FIM cognition 19-35
3-230	Orthopaedic conditions, fractures, FIM motor 14-47, FIM cognition 5-18
3-231	Orthopaedic conditions, replacement, FIM motor 72-91
3-232	Orthopaedic conditions, replacement, FIM motor 49-71
3-233	Orthopaedic conditions, replacement, FIM motor 14-48
3-234	Orthopaedic conditions, all other, FIM motor 68-91
3-235	Orthopaedic conditions, all other, FIM motor 53-67
3-236	Orthopaedic conditions, all other, FIM motor 14-52
3-237	Cardiac
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
3-242	All other impairments, FIM motor 67-91
3-243	All other impairments, FIM motor 53-66
3-244	All other impairments, FIM motor 25-52
3-245	All other impairments, FIM motor 14-24

NOTE: AN-SNAP classes for inpatient rehabilitation have not changed between V2 and V3.

Length of stay and functional improvement of completed episodes of rehabilitation in New Zealand, by AN-SNAP class and age, AROC financial year 2014 (1/2)

AN-SNAP class	Aged under 65				Aged 65 and over				New Zealand National			
	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
3-201*	---				---				---			
3-202	34	115.3 (94.4–136.1)	41.1 (29.7–52.6)	2.5	16	39.6 (26.3–53.0)	16.2 (3.5–28.9)	2.9	51	90.8 (73.4–108.2)	32.8 (23.6–41.9)	2.5
3-203	17	58.7 (41.2–76.3)	32.2 (17.3–47.2)	3.8	190	35.8 (32.4–39.1)	17.9 (14.9–20.8)	3.5	209	37.5 (34.0–41.0)	18.9 (15.8–21.9)	3.5
3-204	120	13.9 (11.7–16.1)	12.1 (10.6–13.5)	6.1	257	12.8 (11.9–13.7)	10.8 (9.9–11.7)	5.9	378	13.2 (12.2–14.1)	11.2 (10.4–12.0)	6.0
3-205	35	21.0 (15.9–26.1)	17.3 (14.4–20.2)	5.8	50	19.8 (16.4–23.2)	11.2 (7.9–14.6)	4.0	85	20.3 (17.4–23.2)	13.8 (11.4–16.2)	4.8
3-206	66	23.4 (19.9–26.9)	28.9 (26.7–31.1)	8.6	262	18.2 (16.9–19.5)	19.7 (18.2–21.1)	7.5	331	19.3 (18.1–20.6)	21.5 (20.3–22.8)	7.8
3-207	5	32.8 (15.5–50.1)	30.8 (19.7–41.9)	6.6	46	22.3 (17.9–26.7)	15.6 (11.6–19.6)	4.9	51	23.3 (19.0–27.7)	17.1 (13.1–21.0)	5.1
3-208	0	n.a.	n.a.	n.a.	423	33.1 (31.2–34.9)	23.9 (22.0–25.8)	5.1	423	33.1 (31.2–34.9)	23.9 (22.0–25.8)	5.1
3-209	133	54.8 (49.8–59.8)	37.9 (34.6–41.2)	4.8	147	37.3 (33.9–40.7)	32.5 (29.5–35.5)	6.1	280	45.6 (42.5–48.8)	35.1 (32.8–37.3)	5.4
3-210	27	10.1 (7.7–12.5)	7.3 (4.4–10.2)	5.1	16	9.2 (5.7–12.7)	11.1 (7.1–15.1)	8.4	43	9.7 (7.8–11.7)	8.8 (6.4–11.1)	6.3
3-211	91	18.6 (15.7–21.4)	16.7 (14.6–18.7)	6.3	29	21.3 (16.3–26.4)	13.1 (9.3–16.8)	4.3	120	19.2 (16.7–21.7)	15.8 (14.0–17.6)	5.7
3-212	28	22.9 (16.0–29.8)	19.4 (16.2–22.6)	5.9	11	24.8 (17.3–32.3)	16.5 (10.1–22.8)	4.6	39	23.4 (18.1–28.8)	18.6 (15.7–21.5)	5.5
3-213	25	41.1 (29.0–53.2)	27.1 (21.9–32.3)	4.6	23	26.1 (16.7–35.5)	12.7 (7.1–18.3)	3.4	48	33.9 (26.0–41.9)	20.2 (15.9–24.5)	4.2
3-214	56	37.6 (30.3–45.0)	46.4 (40.4–52.5)	8.6	66	26.6 (20.7–32.4)	24.0 (19.0–29.0)	6.3	123	34.5 (27.2–41.9)	34.1 (29.8–38.4)	6.9
3-215	15	58.7 (43.0–74.5)	64.9 (52.4–77.4)	7.7	21	30.7 (24.3–37.0)	31.6 (22.0–41.2)	7.2	36	42.4 (33.7–51.1)	45.5 (36.2–54.8)	7.5
3-216	40	18.4 (13.8–23.0)	11.8 (8.4–15.2)	4.5	47	13.8 (11.3–16.3)	6.6 (3.2–9.9)	3.3	87	15.9 (13.4–18.4)	8.9 (6.5–11.4)	3.9
3-217	23	29.6 (20.8–38.3)	18.7 (14.2–23.2)	4.4	40	19.3 (15.7–22.8)	15.3 (12.2–18.4)	5.6	63	23.0 (18.9–27.1)	16.6 (14.0–19.1)	5.0
3-218	45	39.8 (31.6–47.9)	25.7 (19.6–31.7)	4.5	59	25.6 (20.1–31.1)	19.4 (14.8–24.0)	5.3	104	31.7 (26.8–36.6)	22.1 (18.4–25.8)	4.9
3-219	3	98.3 (0.0–257.8)	4.0 (-5.9–13.9)	0.3	7	28.1 (13.9–42.4)	19.7 (4.9–34.5)	4.9	11	48.4 (5.6–91.1)	15.1 (4.8–25.4)	2.2
3-220	3	13.0 (6.2–19.8)	-1.0 (-3.0–1.0)	-0.5	0	n.a.	n.a.	n.a.	3	13.0 (6.2–19.8)	-1.0 (-3.0–1.0)	-0.5
3-221	38	31.7 (22.9–40.5)	17.5 (13.9–21.0)	3.9	16	21.1 (13.2–28.9)	14.5 (9.9–19.1)	4.8	54	28.6 (21.9–35.3)	16.6 (13.8–19.4)	4.1
3-222	47	58.4 (48.8–68.0)	38.2 (32.4–44.0)	4.6	34	65.6 (50.2–81.0)	28.6 (23.1–34.1)	3.1	81	61.4 (52.9–69.9)	34.2 (30.0–38.4)	3.9
3-223	13	64.4 (50.5–78.3)	49.9 (42.8–57.1)	5.4	0	n.a.	n.a.	n.a.	13	64.4 (50.5–78.3)	49.9 (42.8–57.1)	5.4

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

NOTE 2: Incomplete episodes are excluded from analysis

* there is no 3-201 class in the AROC Version 4 data set - pathway 3 (inpatient direct care) data

Length of stay and functional improvement of completed episodes of rehabilitation in New Zealand, by AN-SNAP class and age, AROC financial year 2014 (2/2)

AN-SNAP class	Aged under 65				Aged 65 and over				New Zealand National			
	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
3-224	21	16.0 (12.2–19.8)	4.9 (3.2–6.5)	2.1	4	18.5 (0.0–38.9)	4.8 (1.6–7.9)	1.8	25	16.4 (12.1–20.7)	4.8 (3.4–6.3)	2.1
3-225	60	28.7 (24.0–33.5)	18.4 (15.3–21.6)	4.5	104	30.5 (26.8–34.3)	17.4 (14.5–20.4)	4.0	165	29.9 (27.0–32.9)	17.8 (15.6–20.0)	4.2
3-226	11	22.5 (13.1–31.8)	15.8 (9.5–22.0)	4.9	262	16.2 (14.8–17.5)	13.5 (11.9–15.1)	5.9	274	16.4 (15.0–17.8)	13.6 (12.0–15.1)	5.8
3-227	72	14.4 (12.1–16.7)	11.2 (9.6–12.8)	5.4	808	13.4 (12.7–14.1)	10.6 (10.1–11.1)	5.6	882	13.4 (12.8–14.1)	10.6 (10.1–11.1)	5.5
3-228	28	17.0 (12.8–21.3)	18.9 (15.2–22.6)	7.8	650	16.8 (16.1–17.5)	18.5 (17.8–19.3)	7.7	685	16.8 (16.1–17.5)	18.5 (17.8–19.3)	7.7
3-229	41	25.8 (18.4–33.3)	24.2 (20.2–28.3)	6.6	1,189	24.3 (23.4–25.1)	25.5 (24.6–26.3)	7.3	1,236	24.3 (23.5–25.1)	25.4 (24.6–26.3)	7.3
3-230	14	30.5 (17.4–43.6)	29.6 (21.8–37.4)	6.8	478	23.3 (22.0–24.6)	18.0 (16.4–19.6)	5.4	494	23.5 (22.1–24.8)	18.2 (16.7–19.8)	5.4
3-231	2	10.5 (7.6–13.4)	10.0 (10.0–10.0)	6.7	26	11.2 (8.1–14.2)	7.5 (6.0–8.9)	4.7	28	11.1 (8.2–14.0)	7.6 (6.3–9.0)	4.8
3-232	10	14.3 (9.2–19.4)	14.3 (10.1–18.5)	7.0	165	12.7 (11.6–13.8)	15.5 (14.2–16.8)	8.5	175	12.8 (11.7–13.9)	15.4 (14.2–16.6)	8.4
3-233	7	26.6 (15.1–38.1)	32.3 (19.4–45.2)	8.5	94	20.2 (17.6–22.9)	25.7 (22.6–28.8)	8.9	102	20.9 (18.3–23.4)	26.2 (23.2–29.2)	8.8
3-234	15	11.1 (8.1–14.0)	7.6 (5.1–10.1)	4.8	82	10.4 (9.0–11.8)	7.1 (6.0–8.3)	4.8	98	10.5 (9.2–11.7)	7.2 (6.1–8.2)	4.8
3-235	9	20.0 (13.9–26.1)	17.9 (13.2–22.6)	6.3	144	14.2 (12.4–15.9)	14.3 (13.0–15.6)	7.1	153	14.5 (12.8–16.2)	14.5 (13.3–15.8)	7.0
3-236	17	29.2 (18.1–40.4)	23.9 (15.7–32.0)	5.7	196	20.3 (18.6–22.0)	22.0 (19.9–24.2)	7.6	215	21.3 (19.5–23.1)	22.1 (20.1–24.2)	7.3
3-237	8	8.8 (4.2–13.3)	9.6 (3.0–16.2)	7.7	127	14.7 (13.2–16.2)	13.2 (11.1–15.2)	6.3	136	14.4 (12.9–15.8)	13.2 (11.2–15.1)	6.4
3-238	12	13.0 (6.4–19.6)	10.1 (6.8–13.3)	5.4	3	19.0 (11.1–26.9)	2.7 (-4.5–9.9)	1.0	15	14.2 (8.7–19.7)	8.6 (5.4–11.8)	4.2
3-239	20	27.9 (19.6–36.2)	24.7 (20.1–29.2)	6.2	9	15.2 (11.3–19.1)	19.2 (12.5–25.9)	8.8	29	24.0 (17.8–30.2)	23.0 (19.2–26.8)	6.7
3-240	16	47.5 (36.0–59.0)	48.2 (44.2–52.2)	7.1	5	32.4 (12.9–51.9)	39.8 (18.6–61.0)	8.6	21	43.9 (33.8–54.0)	46.2 (40.4–51.9)	7.4
3-241	11	71.8 (41.1–102.5)	64.5 (50.5–78.6)	6.3	1	170.0	39.0	1.6	12	80.0 (47.7–112.3)	62.4 (48.9–75.9)	5.5
3-242	72	13.1 (10.4–15.8)	8.6 (7.1–10.1)	4.6	755	13.9 (12.4–15.4)	6.0 (5.5–6.6)	3.0	830	13.8 (12.5–15.2)	6.3 (5.8–6.8)	3.2
3-243	61	25.9 (19.7–32.0)	16.9 (14.7–19.0)	4.6	889	16.1 (15.4–16.8)	12.8 (12.2–13.5)	5.6	956	16.7 (15.9–17.5)	13.1 (12.5–13.7)	5.5
3-244	79	27.7 (24.0–31.5)	24.7 (21.2–28.2)	6.2	1,224	21.8 (20.7–22.9)	17.7 (16.9–18.6)	5.7	1,307	22.1 (21.1–23.2)	18.2 (17.4–19.0)	5.7
3-245	19	40.0 (28.2–51.8)	20.5 (11.9–29.1)	3.6	256	23.7 (21.8–25.6)	16.7 (14.2–19.1)	4.9	276	24.8 (22.9–26.8)	17.0 (14.7–19.3)	4.8
Missing or excluded	104				660				782			
All episodes	1,573	31.0 (29.4–32.6)	23.3 (22.3–24.2)	5.2	9,891	20.3 (19.9–20.6)	16.8 (16.5–17.1)	5.8	11,529	21.8 (21.4–22.1)	17.7 (17.4–18.0)	5.7

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

NOTE 2: Incomplete episodes are excluded from analysis