

Length of stay and functional improvement of completed episodes of rehabilitation in New Zealand, by impairment and age, AROC calendar year 2013

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	143	38.3 (33.4–43.3)	31.2 (27.3–35.0)	5.7	423	27.0 (25.1–28.8)	21.9 (20.2–23.6)	5.7	566	29.8 (27.9–31.8)	24.2 (22.6–25.9)	5.7
Stroke - ischaemic	230	32.6 (28.8–36.5)	26.5 (24.2–28.9)	5.7	799	26.9 (25.5–28.3)	19.2 (17.9–20.4)	5.0	1,037	28.1 (26.8–29.5)	20.9 (19.8–22.0)	5.2
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	105	31.6 (25.1–38.0)	31.3 (26.6–35.9)	6.9	90	21.7 (18.5–24.9)	16.2 (12.6–19.7)	5.2	195	27.0 (23.2–30.9)	24.3 (21.1–27.5)	6.3
Brain - trauma	124	32.2 (25.5–38.9)	30.4 (25.7–35.1)	6.6	82	29.0 (23.0–35.1)	20.9 (16.8–25.0)	5.0	206	30.9 (26.3–35.6)	26.6 (23.3–29.9)	6.0
Neurological	110	24.9 (21.1–28.8)	20.0 (16.5–23.5)	5.6	161	20.5 (17.9–23.1)	13.0 (10.7–15.4)	4.5	273	22.4 (20.2–24.5)	16.1 (14.0–18.1)	5.0
Spinal cord - NO trauma	44	49.6 (39.7–59.5)	28.3 (23.3–33.3)	4.0	42	45.1 (34.0–56.2)	21.5 (17.3–25.8)	3.3	86	47.4 (40.0–54.8)	25.0 (21.7–28.4)	3.7
Spinal cord - trauma	71	65.0 (55.6–74.4)	34.0 (29.3–38.6)	3.7	10	94.8 (54.9–134.7)	27.0 (15.6–38.4)	2.0	82	68.8 (59.2–78.4)	32.7 (28.4–37.0)	3.3
Amputee - NO trauma	57	29.0 (23.4–34.6)	15.7 (12.4–19.0)	3.8	103	31.4 (27.1–35.7)	17.2 (14.6–19.8)	3.8	161	30.6 (27.2–34.0)	16.7 (14.7–18.7)	3.8
Amputee - trauma	5	16.2 (11.7–20.7)	9.8 (6.0–13.6)	4.2	11	25.8 (15.8–35.8)	20.2 (11.5–28.9)	5.5	16	22.8 (15.5–30.1)	16.9 (10.5–23.4)	5.2
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.	42	14.5 (12.2–16.7)	14.4 (11.3–17.4)	7.0	46	14.7 (12.6–16.8)	14.8 (11.9–17.8)	7.1
Pain	14	22.2 (8.5–35.9)	15.1 (8.9–21.2)	4.7	263	17.0 (15.7–18.4)	14.3 (12.7–15.8)	5.9	279	17.2 (15.8–18.7)	14.3 (12.8–15.7)	5.8
Ortho - fractures	174	23.1 (20.1–26.1)	16.6 (15.0–18.3)	5.0	2,974	19.6 (19.1–20.0)	18.8 (18.3–19.3)	6.7	3,157	19.9 (19.4–20.4)	18.7 (18.2–19.2)	6.6
Ortho - replacements	15	24.6 (11.9–37.3)	18.7 (11.4–25.9)	5.3	271	13.7 (12.6–14.8)	16.7 (15.3–18.1)	8.5	287	14.4 (13.1–15.6)	16.9 (15.5–18.2)	8.2
Ortho - soft tissue injury	20	24.8 (15.2–34.4)	18.1 (10.4–25.8)	5.1	297	15.4 (14.3–16.4)	16.7 (15.2–18.2)	7.6	317	16.0 (14.8–17.1)	16.8 (15.3–18.3)	7.4
Ortho - others	24	23.4 (16.0–30.8)	16.3 (13.1–19.6)	4.9	79	20.6 (17.0–24.3)	15.4 (12.4–18.4)	5.2	104	21.6 (18.2–24.9)	15.7 (13.3–18.1)	5.1
Cardiac	9	16.0 (11.5–20.5)	13.7 (6.2–21.1)	6.0	129	15.7 (14.0–17.4)	13.5 (11.2–15.9)	6.0	139	15.7 (14.1–17.3)	13.8 (11.5–16.0)	6.1
Pulmonary	5	7.4 (3.3–11.5)	8.2 (3.0–13.4)	7.8	77	19.2 (16.8–21.6)	11.9 (8.9–15.0)	4.4	83	18.6 (16.3–20.9)	11.6 (8.8–14.5)	4.4
Burns	1	n.a.	n.a.	n.a.	1	n.a.	n.a.	n.a.	2	n.a.	n.a.	n.a.
Congenital deformity	3	n.a.	n.a.	n.a.	1	n.a.	n.a.	n.a.	4	n.a.	n.a.	n.a.
Other disabling imp.	28	17.7 (12.9–22.5)	18.9 (12.5–25.2)	7.5	662	19.3 (18.4–20.3)	12.1 (11.2–13.1)	4.4	692	19.3 (18.3–20.2)	12.4 (11.4–13.4)	4.5
Multiple trauma	45	47.4 (35.6–59.2)	37.8 (30.6–45.0)	5.6	10	45.6 (14.4–76.8)	29.0 (16.3–41.7)	4.5	55	47.1 (36.1–58.2)	36.2 (29.8–42.5)	5.4
Developmental disability	2	n.a.	n.a.	n.a.	2	n.a.	n.a.	n.a.	4	n.a.	n.a.	n.a.
Re-conditioning	204	23.2 (20.7–25.8)	18.5 (16.4–20.5)	5.6	2,233	18.7 (18.0–19.3)	14.1 (13.6–14.7)	5.3	2,441	19.0 (18.4–19.6)	14.5 (13.9–15.1)	5.3
Missing or excluded	85				603				697			
All episodes	1,522	31.4 (29.9–33.0)	24.3 (23.3–25.3)	5.4	9,365	20.4 (20.1–20.7)	16.8 (16.4–17.1)	5.8	10,929	22.0 (21.6–22.3)	17.8 (17.5–18.1)	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 calendar year 2013 (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	28	115.4 (94.7–136.2)	44.6 (32.3–56.9)	2.7	20	61.6 (40.1–83.1)	26.6 (16.0–37.2)	3.0	49	92.7 (76.3–109.1)	36.4 (27.9–45.0)	2.8
3-203	25	63.0 (49.6–76.3)	37.6 (24.9–50.2)	4.2	166	33.7 (30.6–36.8)	18.1 (14.7–21.4)	3.8	193	37.3 (33.8–40.8)	20.4 (17.0–23.9)	3.8
3-204	133	14.1 (11.9–16.4)	12.8 (11.4–14.3)	6.4	261	13.9 (12.7–15.1)	9.5 (8.4–10.6)	4.8	397	14.0 (12.9–15.1)	10.7 (9.8–11.6)	5.4
3-205	20	28.7 (19.8–37.5)	15.7 (11.5–19.8)	3.8	51	19.9 (16.5–23.3)	10.7 (7.3–14.1)	3.8	71	22.4 (18.8–25.9)	12.2 (9.5–14.9)	3.8
3-206	54	21.6 (18.4–24.8)	26.9 (24.2–29.6)	8.7	254	19.3 (17.8–20.9)	19.9 (18.5–21.3)	7.2	311	19.8 (18.4–21.1)	21.2 (19.9–22.4)	7.5
3-207	5	33.8 (18.7–48.9)	26.2 (8.4–44.0)	5.4	32	17.9 (14.2–21.7)	14.1 (10.4–17.9)	5.5	37	20.1 (16.0–24.2)	15.8 (11.6–19.9)	5.5
3-208	0	n.a.	n.a.	n.a.	392	34.3 (32.3–36.4)	23.6 (21.7–25.6)	4.8	392	34.3 (32.3–36.4)	23.6 (21.7–25.6)	4.8
3-209	145	55.3 (50.4–60.2)	42.9 (39.8–46.0)	5.4	154	39.6 (35.8–43.5)	32.4 (29.2–35.7)	5.7	299	47.2 (44.0–50.4)	37.5 (35.2–39.8)	5.6
3-210	26	10.8 (9.1–12.6)	8.7 (5.1–12.2)	5.6	15	10.5 (6.6–14.5)	9.0 (6.0–12.0)	6.0	41	10.7 (8.9–12.5)	8.8 (6.3–11.2)	5.7
3-211	72	15.5 (13.5–17.5)	16.2 (13.9–18.5)	7.3	36	15.9 (12.3–19.6)	12.8 (9.6–15.9)	5.6	108	15.6 (13.8–17.4)	15.0 (13.2–16.9)	6.7
3-212	28	22.2 (17.6–26.8)	15.6 (12.8–18.5)	4.9	16	20.6 (14.0–27.3)	12.6 (6.7–18.6)	4.3	44	21.6 (17.9–25.4)	14.5 (11.7–17.4)	4.7
3-213	25	37.2 (26.7–47.7)	29.3 (24.7–33.9)	5.5	26	21.5 (15.9–27.1)	10.1 (5.4–14.8)	3.3	51	29.2 (23.0–35.4)	19.5 (15.3–23.7)	4.7
3-214	54	38.9 (31.4–46.3)	51.5 (45.6–57.4)	9.3	50	28.6 (22.0–35.1)	26.5 (20.9–32.0)	6.5	104	33.9 (28.9–39.0)	39.5 (34.7–44.2)	8.1
3-215	14	69.0 (42.8–95.2)	71.1 (61.0–81.2)	7.2	18	40.3 (31.3–49.4)	23.9 (13.3–34.6)	4.2	32	52.9 (39.6–66.1)	44.6 (33.6–55.6)	5.9
3-216	52	17.4 (13.4–21.5)	10.5 (7.6–13.3)	4.2	62	13.5 (11.6–15.4)	6.8 (4.3–9.3)	3.5	114	15.3 (13.2–17.4)	8.5 (6.6–10.4)	3.9
3-217	20	21.1 (13.6–28.6)	21.6 (16.2–26.9)	7.1	33	21.1 (16.8–25.4)	13.6 (9.2–18.1)	4.5	53	21.1 (17.2–24.9)	16.6 (13.1–20.2)	5.5
3-218	35	37.1 (29.2–45.0)	30.9 (23.8–38.1)	5.8	52	28.1 (21.8–34.3)	21.2 (16.0–26.4)	5.3	88	31.6 (26.7–36.5)	25.6 (21.2–30.0)	5.7
3-219	3	38.0 (12.8–63.2)	46.7 (-1.1–94.5)	8.6	11	20.7 (11.2–30.2)	9.8 (2.0–17.6)	3.3	15	25.5 (16.4–34.5)	17.6 (5.1–30.1)	4.8
3-220	1	7.0	0.0	0.0	0	n.a.	n.a.	n.a.	1	7.0	0.0	0.0
3-221	33	31.7 (22.0–41.4)	16.9 (13.7–20.2)	3.7	16	21.8 (13.5–30.1)	15.9 (11.3–20.4)	5.1	49	28.5 (21.3–35.6)	16.6 (14.0–19.2)	4.1
3-222	47	60.8 (51.3–70.3)	39.5 (34.8–44.3)	4.6	30	63.3 (46.2–80.5)	25.9 (20.5–31.4)	2.9	77	61.8 (53.0–70.6)	34.1 (30.3–38.0)	3.9
3-223	17	68.9 (58.4–79.3)	46.4 (40.6–52.1)	4.7	0	n.a.	n.a.	n.a.	17	68.9 (58.4–79.3)	46.4 (40.6–52.1)	4.7

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

* 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 calendar year 2013 (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	20	19.1 (15.1–23.0)	5.9 (4.1–7.6)	2.1	7	16.6 (2.1–31.0)	6.0 (3.0–9.0)	2.5	27	18.4 (13.8–23.0)	5.9 (4.4–7.4)	2.2
3-225	42	32.2 (25.0–39.4)	19.7 (16.0–23.4)	4.3	106	31.5 (27.4–35.6)	18.2 (15.6–20.8)	4.1	149	31.7 (28.1–35.2)	18.6 (16.5–20.7)	4.1
3-226	14	22.2 (8.5–35.9)	15.1 (8.9–21.2)	4.7	261	17.0 (15.6–18.3)	14.4 (12.9–15.9)	5.9	277	17.1 (15.7–18.6)	14.4 (12.9–15.8)	5.9
3-227	79	16.4 (13.0–19.7)	11.7 (10.2–13.3)	5.0	788	13.5 (12.8–14.2)	10.9 (10.3–11.4)	5.6	868	13.7 (13.1–14.4)	10.9 (10.4–11.4)	5.6
3-228	36	20.0 (15.2–24.9)	18.6 (15.5–21.6)	6.5	598	17.4 (16.6–18.1)	18.6 (17.8–19.4)	7.5	635	17.5 (16.7–18.3)	18.6 (17.9–19.3)	7.4
3-229	40	32.1 (24.9–39.3)	23.6 (19.7–27.5)	5.2	1,065	23.9 (23.1–24.8)	25.5 (24.6–26.4)	7.5	1,108	24.2 (23.3–25.1)	25.4 (24.5–26.3)	7.4
3-230	17	37.5 (24.9–50.2)	19.9 (12.0–27.9)	3.7	469	22.2 (21.1–23.3)	17.8 (16.3–19.3)	5.6	488	23.4 (21.6–25.2)	17.8 (16.3–19.3)	5.3
3-231	3	8.7 (4.7–12.6)	6.7 (3.2–10.1)	5.4	38	10.1 (7.8–12.4)	5.6 (4.1–7.2)	3.9	41	10.0 (7.8–12.1)	5.7 (4.2–7.2)	4.0
3-232	8	26.6 (4.8–48.5)	16.1 (8.9–23.3)	4.2	154	11.4 (10.4–12.5)	15.3 (14.1–16.5)	9.3	162	12.2 (10.7–13.7)	15.3 (14.1–16.5)	8.8
3-233	4	32.5 (17.1–47.9)	32.8 (16.4–49.1)	7.1	79	19.8 (17.6–22.1)	24.9 (21.6–28.2)	8.8	84	20.7 (18.3–23.1)	25.3 (22.1–28.5)	8.6
3-234	15	13.9 (8.6–19.2)	7.8 (5.3–10.3)	3.9	80	10.5 (8.7–12.3)	6.6 (5.0–8.1)	4.4	95	11.0 (9.3–12.7)	6.8 (5.4–8.1)	4.3
3-235	11	20.8 (13.9–27.7)	18.2 (14.8–21.6)	6.1	126	15.4 (13.2–17.6)	15.2 (13.8–16.5)	6.9	137	15.8 (13.8–17.9)	15.4 (14.1–16.7)	6.8
3-236	18	34.4 (22.9–46.0)	24.3 (16.7–31.8)	4.9	169	20.2 (18.6–21.7)	22.1 (19.8–24.5)	7.7	188	21.7 (19.8–23.6)	22.4 (20.2–24.6)	7.2
3-237	9	16.0 (11.5–20.5)	13.7 (6.2–21.1)	6.0	128	15.7 (14.0–17.4)	13.5 (11.2–15.9)	6.0	138	15.7 (14.2–17.3)	13.8 (11.5–16.0)	6.1
3-238	12	18.1 (12.7–23.5)	9.3 (6.3–12.4)	3.6	2	21.5 (10.7–32.3)	4.5 (-6.3–15.3)	1.5	14	18.6 (13.8–23.4)	8.6 (5.7–11.6)	3.3
3-239	9	29.6 (17.3–41.8)	24.8 (18.5–31.1)	5.9	5	15.4 (12.3–18.5)	19.6 (7.6–31.6)	8.9	14	24.5 (15.9–33.1)	22.9 (17.2–28.7)	6.6
3-240	16	54.8 (44.0–65.7)	51.6 (47.3–55.8)	6.6	3	62.0 (33.1–90.9)	49.7 (31.7–67.6)	5.6	19	55.9 (46.0–65.9)	51.3 (47.0–55.6)	6.4
3-241	7	79.3 (49.7–108.9)	65.4 (49.1–81.7)	5.8	1	170.0	39.0	1.6	8	90.6 (56.7–124.6)	62.1 (46.6–77.7)	4.8
3-242	81	14.2 (11.6–16.8)	9.0 (7.4–10.5)	4.4	705	13.8 (12.6–15.0)	6.1 (5.5–6.6)	3.1	787	13.8 (12.7–15.0)	6.4 (5.9–6.9)	3.2
3-243	57	21.4 (16.4–26.4)	17.0 (14.6–19.3)	5.6	847	16.8 (16.1–17.6)	13.0 (12.2–13.7)	5.4	909	17.1 (16.3–17.9)	13.2 (12.5–13.9)	5.4
3-244	77	26.7 (22.9–30.5)	27.7 (24.3–31.2)	7.3	1,169	21.4 (20.6–22.1)	17.8 (17.0–18.7)	5.8	1,247	21.7 (21.0–22.4)	18.4 (17.6–19.3)	5.9
3-245	24	33.3 (23.3–43.2)	21.6 (12.1–31.2)	4.6	252	25.4 (23.3–27.5)	18.0 (15.4–20.5)	4.9	276	26.1 (23.9–28.2)	18.3 (15.8–20.7)	4.9
Missing or excluded	86				618				715			
All episodes	1,522	31.4 (29.9–33.0)	24.3 (23.3–25.3)	5.4	9,365	20.4 (20.1–20.7)	16.8 (16.4–17.1)	5.8	10,929	22.0 (21.6–22.3)	17.8 (17.5–18.1)	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