

Length of stay and functional improvement of completed episodes of rehabilitation in New Zealand, by impairment and age, AROC financial year 2015

Impairment group	Aged under 65				Aged 65 and over				New Zealand National			
	No.	Length of stay	FIM change	FIM gain	No.	Length of stay	FIM change	FIM gain	No.	Length of stay	FIM change	FIM gain
		Mean (95%CI)	Mean (95%CI)	per week		Mean (95%CI)	Mean (95%CI)	per week		Mean (95%CI)	Mean (95%CI)	per week
Stroke - haemorrhagic	121	33.5 (28.6–38.4)	27.1 (23.5–30.7)	5.7	317	28.7 (25.6–31.8)	19.9 (17.9–22.0)	4.9	441	30.0 (27.4–32.6)	22.0 (20.2–23.8)	5.1
Stroke - ischaemic	259	31.7 (28.3–35.1)	27.5 (25.0–29.9)	6.1	997	26.0 (24.8–27.3)	19.6 (18.5–20.6)	5.3	1,267	27.2 (26.0–28.4)	21.3 (20.3–22.3)	5.5
Brain - NO trauma	98	27.3 (22.4–32.1)	22.6 (18.8–26.3)	5.8	104	18.1 (15.3–20.8)	19.1 (16.2–22.0)	7.4	203	22.5 (19.7–25.3)	20.7 (18.3–23.1)	6.4
Brain - trauma	148	26.0 (22.3–29.7)	30.9 (27.0–34.9)	8.3	93	32.1 (25.7–38.4)	24.3 (20.7–27.8)	5.3	241	28.3 (25.0–31.7)	28.4 (25.5–31.2)	7.0
Neurological	98	23.9 (19.4–28.5)	16.1 (12.9–19.2)	4.7	173	20.7 (18.3–23.1)	14.2 (11.7–16.7)	4.8	272	21.8 (19.6–24.1)	14.9 (12.9–16.8)	4.8
Spinal cord - NO trauma	54	46.8 (36.9–56.7)	30.4 (25.3–35.5)	4.5	38	44.1 (32.8–55.4)	17.9 (12.6–23.1)	2.8	93	45.9 (38.6–53.2)	25.2 (21.3–29.0)	3.8
Spinal cord - trauma	75	67.0 (55.7–78.4)	27.3 (22.6–32.1)	2.9	21	63.6 (48.1–79.1)	28.5 (17.4–39.7)	3.1	97	65.9 (56.5–75.3)	27.7 (23.4–32.1)	2.9
Amputee - NO trauma	38	31.9 (25.6–38.3)	18.5 (13.6–23.4)	4.1	116	28.3 (25.2–31.3)	15.2 (12.6–17.8)	3.8	155	29.2 (26.4–31.9)	16.1 (13.8–18.4)	3.9
Amputee - trauma	3	n.a.	n.a.	n.a.	9	37.0 (10.6–63.4)	24.7 (13.2–36.2)	4.7	12	29.5 (8.5–50.5)	18.6 (9.2–28.0)	4.4
Arthritis	6	25.8 (12.1–39.6)	21.5 (13.8–29.2)	5.8	40	20.2 (15.8–24.5)	15.3 (10.8–19.8)	5.3	46	20.9 (16.7–25.0)	16.1 (12.1–20.2)	5.4
Pain	18	15.1 (9.1–21.0)	13.4 (7.3–19.5)	6.2	258	14.5 (13.2–15.7)	14.5 (13.0–16.0)	7.0	279	14.5 (13.3–15.7)	14.4 (13.0–15.8)	6.9
Ortho - fractures	125	21.9 (18.9–25.0)	21.0 (18.8–23.2)	6.7	3,277	19.0 (18.6–19.5)	18.7 (18.2–19.2)	6.9	3,418	19.2 (18.7–19.6)	18.8 (18.3–19.2)	6.9
Ortho - replacements	19	14.1 (11.2–17.0)	15.3 (9.4–21.2)	7.6	325	15.8 (14.6–17.1)	16.1 (14.8–17.4)	7.1	347	15.8 (14.7–17.0)	16.0 (14.7–17.3)	7.1
Ortho - soft tissue injury	15	15.5 (11.8–19.3)	13.8 (8.2–19.4)	6.2	278	14.8 (13.7–16.0)	14.8 (13.4–16.2)	7.0	297	14.8 (13.7–15.9)	14.7 (13.4–16.1)	7.0
Ortho - others	24	19.6 (13.4–25.8)	16.5 (11.4–21.5)	5.9	104	14.8 (12.8–16.9)	13.4 (11.0–15.8)	6.3	128	15.7 (13.7–17.7)	14.0 (11.8–16.2)	6.2
Cardiac	6	12.2 (6.1–18.2)	18.2 (8.1–28.2)	10.5	123	15.8 (14.2–17.4)	14.0 (10.9–17.2)	6.2	129	15.7 (14.1–17.2)	14.2 (11.2–17.2)	6.4
Pulmonary	4	n.a.	n.a.	n.a.	101	15.6 (13.9–17.3)	11.7 (9.3–14.1)	5.3	105	16.0 (14.3–17.8)	12.2 (9.8–14.6)	5.3
Burns	1	n.a.	n.a.	n.a.	3	n.a.	n.a.	n.a.	4	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.	43	18.7 (15.0–22.4)	10.0 (6.5–13.5)	3.7	686	21.8 (19.9–23.8)	10.4 (9.5–11.4)	3.3	732	21.6 (19.8–23.5)	10.5 (9.6–11.3)	3.4
Multiple trauma	73	45.3 (34.2–56.3)	35.0 (29.1–40.9)	5.4	29	30.9 (21.4–40.5)	25.3 (17.4–33.1)	5.7	102	41.2 (32.8–49.6)	32.2 (27.4–37.1)	5.5
Developmental disability	0	n.a.	n.a.	n.a.	1	n.a.	n.a.	n.a.	1	n.a.	n.a.	n.a.
Re-conditioning	282	22.1 (19.5–24.7)	18.2 (16.5–20.0)	5.8	2,720	16.9 (16.4–17.4)	14.1 (13.6–14.6)	5.8	3,021	17.3 (16.8–17.8)	14.5 (14.0–15.0)	5.9
Missing or excluded	100				595				704			
<b>All episodes</b>	<b>1,613</b>	<b>29.5 (28.0–31.0)</b>	<b>23.4 (22.4–24.4)</b>	<b>5.6</b>	<b>10,409</b>	<b>19.7 (19.4–20.0)</b>	<b>16.4 (16.2–16.7)</b>	<b>5.8</b>	<b>12,098</b>	<b>21.0 (20.6–21.4)</b>	<b>17.4 (17.1–17.7)</b>	<b>5.8</b>

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 2015 (1/2)

AN-SNAP class	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)		
3-201*	---				---				---			
3-202	46	92.4 (74.8–110.0)	31.6 (22.4–40.8)	2.4	22	63.4 (48.5–78.3)	26.5 (14.6–38.5)	2.9	70	81.7 (68.7–94.7)	29.4 (22.3–36.6)	2.5
3-203	31	49.0 (38.8–59.2)	26.8 (18.1–35.5)	3.8	183	33.5 (30.1–36.8)	14.8 (11.9–17.7)	3.1	215	35.8 (32.5–39.1)	16.8 (13.9–19.6)	3.3
3-204	115	12.3 (11.1–13.5)	12.0 (10.4–13.7)	6.8	242	11.9 (10.8–12.9)	9.7 (8.4–11.0)	5.7	361	12.1 (11.3–12.9)	10.5 (9.4–11.5)	6.1
3-205	20	22.1 (16.7–27.5)	16.7 (12.9–20.5)	5.3	39	18.3 (14.9–21.6)	14.1 (11.7–16.6)	5.4	59	19.6 (16.7–22.5)	15.0 (12.9–17.1)	5.4
3-206	59	23.2 (18.8–27.7)	24.6 (21.9–27.2)	7.4	287	19.1 (16.5–21.8)	19.8 (18.3–21.3)	7.2	348	19.8 (17.4–22.1)	20.6 (19.3–21.9)	7.3
3-207	5	40.0 (19.1–60.9)	33.4 (17.5–49.3)	5.8	37	24.2 (19.1–29.2)	15.9 (9.7–22.2)	4.6	42	26.1 (20.9–31.3)	18.0 (12.0–24.1)	4.8
3-208	0	n.a.	n.a.	n.a.	464	33.2 (31.3–35.1)	22.6 (20.8–24.3)	4.8	464	33.2 (31.3–35.1)	22.6 (20.8–24.3)	4.8
3-209	160	47.9 (43.3–52.6)	39.5 (36.3–42.6)	5.8	147	39.1 (35.4–42.9)	31.6 (28.5–34.7)	5.6	307	43.7 (40.7–46.8)	35.7 (33.4–38.0)	5.7
3-210	29	10.1 (8.3–12.0)	10.0 (6.9–13.1)	6.9	18	11.9 (8.2–15.6)	12.8 (8.4–17.2)	7.5	47	10.8 (9.0–12.6)	11.0 (8.5–13.6)	7.2
3-211	81	15.5 (13.7–17.3)	15.9 (14.1–17.6)	7.2	40	16.6 (12.9–20.3)	14.0 (10.6–17.3)	5.9	122	15.8 (14.1–17.5)	15.1 (13.5–16.8)	6.7
3-212	31	24.6 (18.7–30.5)	21.4 (17.7–25.1)	6.1	13	16.8 (11.9–21.8)	15.9 (9.8–22.0)	6.6	44	22.3 (17.8–26.8)	19.8 (16.6–23.0)	6.2
3-213	32	31.2 (20.9–41.4)	27.0 (21.8–32.1)	6.1	28	25.7 (18.6–32.8)	19.5 (13.8–25.2)	5.3	60	28.6 (22.2–35.0)	23.5 (19.6–27.4)	5.7
3-214	42	38.8 (30.7–46.9)	42.8 (37.2–48.4)	7.7	73	26.3 (21.1–31.5)	28.0 (24.2–31.7)	7.4	115	30.9 (26.3–35.4)	33.4 (30.0–36.8)	7.6
3-215	22	50.0 (38.8–61.1)	61.0 (49.2–72.8)	8.6	22	44.8 (25.0–64.6)	26.5 (17.1–35.8)	4.1	44	47.4 (36.1–58.6)	43.8 (34.7–52.8)	6.5
3-216	45	15.3 (13.0–17.6)	10.7 (7.9–13.5)	4.9	44	15.0 (11.1–18.8)	4.6 (1.0–8.3)	2.2	89	15.1 (12.9–17.4)	7.7 (5.3–10.1)	3.6
3-217	19	22.4 (11.7–33.1)	24.5 (19.5–29.4)	7.7	53	18.0 (13.8–22.2)	11.9 (9.0–14.8)	4.6	72	19.2 (15.0–23.3)	15.2 (12.4–18.0)	5.6
3-218	30	38.3 (27.4–49.2)	19.6 (11.7–27.5)	3.6	66	25.5 (21.8–29.2)	19.5 (15.2–23.8)	5.4	96	29.5 (25.1–33.9)	19.5 (15.7–23.4)	4.6
3-219	2	14.5 (0.0–29.2)	19.5 (-18.7–57.7)	9.4	7	28.3 (5.0–51.6)	34.7 (12.7–56.7)	8.6	9	25.2 (6.8–43.6)	31.3 (12.8–49.8)	8.7
3-220	2	10.0 (6.1–13.9)	6.0 (2.1–9.9)	4.2	0	n.a.	n.a.	n.a.	2	10.0 (6.1–13.9)	6.0 (2.1–9.9)	4.2
3-221	33	18.6 (14.8–22.4)	20.2 (16.3–24.0)	7.6	11	20.9 (12.3–29.5)	9.5 (2.2–16.7)	3.2	44	19.2 (15.7–22.7)	17.5 (13.9–21.1)	6.4
3-222	43	62.5 (50.9–74.1)	36.0 (30.5–41.4)	4.0	34	52.4 (40.7–64.1)	27.7 (20.8–34.5)	3.7	77	58.0 (49.7–66.4)	32.3 (27.9–36.7)	3.9
3-223	20	60.7 (42.7–78.6)	33.9 (24.6–43.2)	3.9	0	n.a.	n.a.	n.a.	20	60.7 (42.7–78.6)	33.9 (24.6–43.2)	3.9

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 2015 (2/2)

AN-SNAP class	Aged under 65				Aged 65 and over				New Zealand National			
	No.	Length of stay	FIM change	FIM gain	No.	Length of stay	FIM change	FIM gain	No.	Length of stay	FIM change	FIM gain
		Mean (95%CI)	Mean (95%CI)	per week		Mean (95%CI)	Mean (95%CI)	per week		Mean (95%CI)	Mean (95%CI)	per week
3-224	8	16.3 (6.7–25.8)	4.2 (2.3–6.1)	1.8	13	21.4 (9.0–33.8)	2.4 (0.2–4.6)	0.8	21	19.4 (11.0–27.8)	3.1 (1.6–4.7)	1.1
3-225	32	34.0 (26.9–41.1)	21.3 (16.1–26.6)	4.4	111	29.8 (26.3–33.3)	16.8 (14.3–19.3)	3.9	144	30.7 (27.6–33.9)	17.8 (15.5–20.0)	4.0
3-226	18	15.1 (9.1–21.0)	13.4 (7.3–19.5)	6.2	258	14.5 (13.2–15.7)	14.5 (13.0–16.0)	7.0	279	14.5 (13.3–15.7)	14.4 (13.0–15.8)	6.9
3-227	54	13.4 (10.6–16.1)	12.7 (10.9–14.5)	6.7	754	12.5 (12.0–13.1)	10.6 (10.0–11.2)	5.9	812	12.6 (12.1–13.2)	10.7 (10.2–11.3)	5.9
3-228	25	22.6 (15.7–29.5)	24.0 (20.8–27.3)	7.5	697	17.2 (16.2–18.1)	17.6 (16.9–18.3)	7.2	725	17.3 (16.4–18.3)	17.9 (17.1–18.6)	7.2
3-229	34	33.1 (26.4–39.7)	29.4 (25.1–33.7)	6.2	1,204	23.0 (22.2–23.7)	24.9 (24.0–25.8)	7.6	1,246	23.2 (22.5–24.0)	25.0 (24.1–25.8)	7.5
3-230	11	26.7 (17.0–36.4)	28.6 (18.6–38.6)	7.5	572	21.1 (20.0–22.2)	17.9 (16.5–19.2)	5.9	584	21.2 (20.1–22.3)	18.1 (16.7–19.4)	6.0
3-231	4	10.5 (4.8–16.2)	3.8 (0.5–7.0)	2.5	31	10.4 (8.2–12.6)	4.6 (3.3–6.0)	3.1	35	10.4 (8.3–12.4)	4.5 (3.3–5.8)	3.1
3-232	10	13.1 (9.8–16.4)	14.3 (6.0–22.6)	7.6	175	12.5 (11.2–13.8)	15.1 (13.9–16.3)	8.5	187	12.5 (11.3–13.8)	14.9 (13.7–16.1)	8.3
3-233	5	19.0 (12.7–25.3)	26.4 (18.9–33.9)	9.7	114	22.4 (20.1–24.7)	20.8 (17.9–23.6)	6.5	120	22.4 (20.2–24.6)	21.0 (18.3–23.7)	6.6
3-234	11	18.6 (7.4–29.8)	6.1 (2.4–9.7)	2.3	78	9.6 (7.7–11.5)	5.9 (4.7–7.0)	4.3	89	10.7 (8.5–12.9)	5.9 (4.8–7.0)	3.8
3-235	13	16.5 (11.2–21.9)	16.8 (13.2–20.3)	7.1	128	14.1 (12.4–15.9)	13.2 (11.7–14.8)	6.6	143	14.2 (12.6–15.9)	13.6 (12.2–14.9)	6.7
3-236	14	19.6 (13.9–25.2)	22.1 (14.4–29.9)	7.9	175	17.6 (16.2–19.1)	19.2 (17.1–21.3)	7.6	191	17.7 (16.3–19.1)	19.3 (17.3–21.3)	7.6
3-237	6	12.2 (6.1–18.2)	18.2 (8.1–28.2)	10.5	123	15.8 (14.2–17.4)	14.0 (10.9–17.2)	6.2	129	15.7 (14.1–17.2)	14.2 (11.2–17.2)	6.4
3-238	20	18.7 (12.5–24.9)	9.2 (6.2–12.2)	3.4	4	21.5 (5.7–37.3)	14.3 (8.8–19.7)	4.6	24	19.2 (13.5–24.8)	10.0 (7.4–12.7)	3.7
3-239	19	27.5 (19.1–35.9)	26.4 (21.7–31.0)	6.7	14	27.4 (13.5–41.4)	19.1 (15.9–22.4)	4.9	33	27.5 (19.9–35.0)	23.3 (20.1–26.5)	5.9
3-240	21	48.9 (38.6–59.1)	54.8 (50.3–59.3)	7.9	8	30.3 (12.4–48.1)	20.6 (7.4–33.8)	4.8	29	43.7 (34.5–53.0)	45.4 (38.0–52.8)	7.3
3-241	8	79.3 (59.0–99.5)	68.8 (46.3–91.2)	6.1	4	37.3 (2.7–71.8)	31.8 (7.0–56.5)	6.0	12	65.3 (44.8–85.7)	56.4 (37.0–75.8)	6.1
3-242	104	12.7 (10.9–14.5)	10.0 (8.7–11.3)	5.5	739	12.7 (12.0–13.4)	6.6 (6.1–7.1)	3.6	845	12.7 (12.1–13.4)	7.0 (6.6–7.5)	3.9
3-243	75	16.4 (14.2–18.7)	18.5 (16.0–21.0)	7.9	1,066	16.0 (15.1–17.0)	12.7 (12.1–13.3)	5.6	1,150	16.0 (15.1–17.0)	13.1 (12.6–13.7)	5.7
3-244	119	30.3 (25.2–35.4)	21.9 (18.9–24.9)	5.0	1,407	20.0 (19.2–20.8)	17.2 (16.5–18.0)	6.0	1,536	20.7 (19.9–21.6)	17.6 (16.9–18.3)	5.9
3-245	29	28.3 (22.1–34.5)	23.8 (15.4–32.3)	5.9	290	25.7 (22.6–28.8)	14.1 (12.1–16.2)	3.8	319	26.0 (23.1–28.8)	15.2 (13.1–17.2)	4.1
Missing or excluded	106				614				738			
<b>All episodes</b>	<b>1,613</b>	<b>29.5 (28.0–31.0)</b>	<b>23.4 (22.4–24.4)</b>	<b>5.6</b>	<b>10,409</b>	<b>19.7 (19.4–20.0)</b>	<b>16.4 (16.2–16.7)</b>	<b>5.8</b>	<b>12,098</b>	<b>21.0 (20.6–21.4)</b>	<b>17.4 (17.1–17.7)</b>	<b>5.8</b>

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