

Length of stay and functional improvement of completed episodes of rehabilitation in New Zealand, by impairment and age, AROC calendar 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)					
Stroke - haemorrhagic	129	34.7 (30.0–39.4)	25.9 (22.8–29.0)	5.2	302	27.2 (24.9–29.6)	20.3 (18.1–22.4)	5.2	434	29.5 (27.3–31.7)	22.0 (20.2–23.8)	5.2
Stroke - ischaemic	248	31.1 (27.8–34.3)	25.8 (23.6–28.0)	5.8	980	25.3 (24.1–26.6)	19.8 (18.7–20.8)	5.5	1,238	26.5 (25.3–27.7)	21.1 (20.1–22.0)	5.6
Brain - NO trauma	94	26.1 (22.3–30.0)	23.3 (19.7–26.8)	6.2	99	22.3 (18.7–25.9)	20.5 (17.0–23.9)	6.4	195	26.0 (21.5–30.5)	21.7 (19.2–24.1)	5.8
Brain - trauma	168	29.2 (24.8–33.6)	28.3 (24.8–31.8)	6.8	83	27.5 (23.6–31.3)	25.0 (21.3–28.7)	6.4	251	28.6 (25.4–31.8)	27.2 (24.6–29.8)	6.6
Neurological	113	30.8 (24.5–37.1)	18.9 (15.9–21.9)	4.3	151	19.4 (17.1–21.7)	13.0 (10.6–15.4)	4.7	264	24.3 (21.2–27.3)	15.5 (13.6–17.4)	4.5
Spinal cord - NO trauma	47	46.8 (35.8–57.8)	28.7 (23.0–34.5)	4.3	42	47.6 (36.2–58.9)	21.2 (15.8–26.6)	3.1	89	47.2 (39.3–55.0)	25.2 (21.2–29.2)	3.7
Spinal cord - trauma	71	70.1 (58.2–82.0)	30.5 (25.4–35.6)	3.0	16	60.1 (40.6–79.6)	21.6 (10.4–32.9)	2.5	88	67.9 (57.6–78.1)	29.0 (24.4–33.6)	3.0
Amputee - NO trauma	65	27.8 (23.1–32.4)	16.2 (13.1–19.3)	4.1	108	27.7 (24.7–30.8)	14.6 (11.8–17.4)	3.7	174	27.7 (25.2–30.3)	15.3 (13.2–17.3)	3.9
Amputee - trauma	7	25.6 (11.9–39.2)	15.9 (6.2–25.5)	4.3	8	44.1 (15.1–73.1)	25.0 (16.4–33.6)	4.0	15	35.5 (18.6–52.3)	19.6 (13.0–26.2)	3.9
Arthritis	8	24.3 (13.9–34.6)	19.6 (10.8–28.5)	5.7	39	22.5 (16.2–28.7)	17.1 (12.6–21.7)	5.3	47	22.8 (17.3–28.2)	17.6 (13.5–21.6)	5.4
Pain	14	15.9 (7.2–24.5)	15.0 (8.0–22.0)	6.6	247	15.3 (13.9–16.7)	15.1 (13.4–16.8)	6.9	262	15.3 (13.9–16.7)	15.0 (13.4–16.7)	6.9
Ortho - fractures	136	20.1 (17.2–23.0)	20.6 (18.4–22.8)	7.2	3,232	19.6 (19.1–20.0)	18.6 (18.1–19.1)	6.6	3,392	19.6 (19.1–20.0)	18.6 (18.2–19.1)	6.7
Ortho - replacements	20	13.6 (10.1–17.0)	15.6 (10.3–20.8)	8.0	295	15.7 (14.3–17.0)	16.4 (15.1–17.8)	7.3	318	15.6 (14.4–16.9)	16.3 (15.0–17.6)	7.3
Ortho - soft tissue injury	5	12.0 (7.8–16.2)	12.6 (1.0–24.2)	7.4	300	15.9 (14.7–17.1)	16.7 (15.2–18.2)	7.4	309	15.8 (14.7–17.0)	16.5 (15.1–18.0)	7.3
Ortho - others	25	21.5 (15.8–27.2)	16.6 (12.1–21.1)	5.4	108	14.7 (12.5–16.8)	13.6 (11.3–15.9)	6.5	134	15.9 (13.8–18.0)	14.1 (12.0–16.1)	6.2
Cardiac	9	8.8 (4.3–13.3)	12.6 (5.0–20.1)	10.0	122	15.9 (13.9–17.9)	13.4 (10.3–16.6)	5.9	133	15.5 (13.6–17.3)	13.6 (10.6–16.5)	6.1
Pulmonary	5	24.6 (11.9–37.3)	18.4 (1.6–35.2)	5.2	104	19.7 (12.7–26.8)	12.7 (10.3–15.0)	4.5	109	20.0 (13.2–26.7)	12.9 (10.6–15.3)	4.5
Burns	1	n.a.	n.a.	n.a.	2	n.a.	n.a.	n.a.	3	n.a.	n.a.	n.a.
Congenital deformity	4	n.a.	n.a.	n.a.	0	n.a.	n.a.	n.a.	5	18.8 (9.7–27.9)	16.6 (9.3–23.9)	6.2
Other disabling imp.	38	17.9 (14.3–21.5)	11.5 (7.3–15.7)	4.5	604	22.1 (20.1–24.1)	10.9 (9.9–11.9)	3.5	648	21.8 (19.9–23.7)	11.0 (10.0–11.9)	3.5
Multiple trauma	60	49.3 (35.2–63.4)	35.9 (29.4–42.5)	5.1	24	33.8 (22.8–44.7)	29.5 (19.3–39.6)	6.1	84	44.9 (34.2–55.5)	34.1 (28.6–39.6)	5.3
Developmental disability	1	n.a.	n.a.	n.a.	3	n.a.	n.a.	n.a.	4	n.a.	n.a.	n.a.
Re-conditioning	249	22.8 (20.6–25.0)	18.5 (16.7–20.4)	5.7	2,577	17.2 (16.7–17.7)	13.7 (13.2–14.2)	5.6	2,836	17.7 (17.2–18.2)	14.1 (13.6–14.6)	5.6
Missing or excluded	108				621				746			
<b>All episodes</b>	<b>1,625</b>	<b>30.2 (28.7–31.7)</b>	<b>23.0 (22.1–23.9)</b>	<b>5.3</b>	<b>10,067</b>	<b>19.9 (19.6–20.3)</b>	<b>16.5 (16.2–16.8)</b>	<b>5.8</b>	<b>11,778</b>	<b>21.4 (21.0–21.7)</b>	<b>17.4 (17.1–17.7)</b>	<b>5.7</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 calendar 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	39	107.6 (87.1–128.0)	26.5 (17.1–35.9)	1.7	21	58.2 (43.0–73.4)	19.8 (7.0–32.6)	2.4	60	90.3 (74.8–105.7)	24.0 (16.5–31.6)	1.9
3-203	21	56.7 (41.7–71.7)	21.3 (11.5–31.0)	2.6	190	35.1 (31.6–38.6)	16.7 (13.2–20.1)	3.3	213	37.3 (33.8–40.9)	17.4 (14.1–20.6)	3.3
3-204	111	14.1 (11.9–16.3)	11.9 (10.3–13.4)	5.9	256	12.1 (11.1–13.0)	10.9 (9.9–11.9)	6.3	371	12.7 (11.8–13.7)	11.2 (10.4–12.0)	6.1
3-205	34	19.7 (15.9–23.5)	18.9 (16.1–21.6)	6.7	45	16.9 (14.4–19.4)	12.6 (10.0–15.2)	5.2	79	18.1 (15.9–20.2)	15.3 (13.3–17.3)	5.9
3-206	61	24.7 (20.2–29.1)	27.7 (25.1–30.2)	7.9	275	18.2 (17.0–19.5)	19.3 (17.8–20.8)	7.4	338	19.3 (18.0–20.6)	20.8 (19.5–22.2)	7.5
3-207	6	33.7 (13.1–54.3)	32.2 (19.7–44.6)	6.7	38	23.8 (18.6–28.9)	14.0 (7.7–20.3)	4.1	44	25.1 (19.9–30.3)	16.5 (10.5–22.4)	4.6
3-208	0	n.a.	n.a.	n.a.	436	32.2 (30.2–34.1)	22.9 (21.1–24.7)	5.0	436	32.2 (30.2–34.1)	22.9 (21.1–24.7)	5.0
3-209	151	48.2 (44.0–52.3)	36.4 (33.3–39.5)	5.3	141	38.0 (34.4–41.5)	33.1 (30.2–36.0)	6.1	292	43.3 (40.4–46.1)	34.8 (32.7–36.9)	5.6
3-210	29	9.7 (7.1–12.2)	9.3 (6.2–12.3)	6.7	13	11.1 (6.9–15.3)	17.6 (12.2–23.1)	11.1	42	10.1 (8.0–12.3)	11.9 (8.9–14.8)	8.2
3-211	93	18.8 (15.9–21.6)	17.2 (15.4–19.0)	6.4	32	20.7 (16.1–25.3)	15.3 (11.9–18.7)	5.2	126	19.2 (16.8–21.6)	16.6 (15.0–18.2)	6.1
3-212	35	24.6 (17.5–31.7)	21.1 (17.7–24.5)	6.0	12	19.7 (14.2–25.2)	14.3 (7.2–21.3)	5.1	47	23.3 (17.9–28.8)	19.3 (16.1–22.5)	5.8
3-213	29	32.0 (24.8–39.2)	28.2 (23.3–33.1)	6.2	19	30.4 (17.5–43.3)	16.5 (10.2–22.8)	3.8	48	31.4 (24.7–38.0)	23.6 (19.4–27.7)	5.3
3-214	48	39.5 (31.5–47.5)	40.8 (34.4–47.3)	7.2	73	26.1 (21.9–30.3)	26.0 (21.9–30.1)	7.0	122	34.3 (27.3–41.4)	31.7 (28.0–35.5)	6.5
3-215	20	51.7 (40.2–63.1)	63.3 (51.9–74.7)	8.6	27	26.9 (20.9–32.9)	32.4 (24.2–40.6)	8.4	47	37.4 (30.6–44.3)	45.5 (37.5–53.5)	8.5
3-216	40	14.7 (12.5–16.8)	12.5 (10.3–14.6)	6.0	40	14.4 (11.4–17.3)	5.4 (1.4–9.3)	2.6	80	14.5 (12.7–16.3)	8.9 (6.5–11.3)	4.3
3-217	25	28.8 (19.2–38.3)	20.4 (15.8–24.9)	5.0	40	17.9 (12.6–23.1)	13.4 (10.6–16.3)	5.3	65	22.0 (17.0–27.0)	16.1 (13.5–18.6)	5.1
3-218	42	40.9 (31.6–50.3)	24.6 (18.1–31.2)	4.2	62	22.6 (19.0–26.2)	16.9 (12.8–21.0)	5.2	104	30.0 (25.3–34.7)	20.0 (16.4–23.7)	4.7
3-219	4	76.5 (0.0–197.2)	13.3 (-4.8–31.3)	1.2	5	24.2 (12.9–35.5)	28.4 (7.7–49.1)	8.2	9	47.4 (0.0–100.2)	21.7 (7.5–35.8)	3.2
3-220	3	13.3 (7.1–19.6)	0.3 (-3.6–4.3)	0.2	0	n.a.	n.a.	n.a.	3	13.3 (7.1–19.6)	0.3 (-3.6–4.3)	0.2
3-221	33	25.2 (17.6–32.8)	20.2 (16.0–24.3)	5.6	13	21.2 (14.1–28.4)	8.2 (2.2–14.1)	2.7	46	24.1 (18.3–29.8)	16.8 (13.0–20.5)	4.9
3-222	45	63.3 (51.6–75.0)	38.2 (32.2–44.2)	4.2	36	56.1 (44.0–68.2)	28.9 (22.7–35.1)	3.6	81	60.1 (51.7–68.5)	34.0 (29.6–38.5)	4.0
3-223	13	63.9 (45.0–82.9)	48.4 (38.9–57.8)	5.3	0	n.a.	n.a.	n.a.	13	63.9 (45.0–82.9)	48.4 (38.9–57.8)	5.3

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 2014 (2/2)

AN-SNAP class	Aged under 65				Aged 65 and over				New Zealand National			
	Length of stay		FIM change	FIM gain per week	Length of stay		FIM change	FIM gain per week	Length of stay		FIM change	FIM gain per week
	No.	Mean (95%CI)	Mean (95%CI)		No.	Mean (95%CI)	Mean (95%CI)		No.	Mean (95%CI)	Mean (95%CI)	
3-224	14	13.9 (9.7–18.0)	4.7 (3.4–6.0)	2.4	7	18.7 (8.7–28.8)	3.3 (0.5–6.1)	1.2	21	15.5 (11.2–19.8)	4.3 (3.0–5.5)	1.9
3-225	58	30.8 (25.9–35.8)	19.1 (15.9–22.4)	4.3	106	29.4 (25.6–33.1)	15.8 (13.1–18.5)	3.8	165	29.9 (26.9–32.8)	17.0 (14.9–19.0)	4.0
3-226	14	15.9 (7.2–24.5)	15.0 (8.0–22.0)	6.6	247	15.3 (13.9–16.7)	15.1 (13.4–16.8)	6.9	262	15.3 (13.9–16.7)	15.0 (13.4–16.7)	6.9
3-227	54	12.1 (10.2–14.0)	11.2 (9.3–13.1)	6.5	802	12.8 (12.2–13.4)	10.8 (10.3–11.4)	5.9	861	12.8 (12.2–13.3)	10.9 (10.3–11.4)	5.9
3-228	22	18.0 (14.0–21.9)	24.8 (21.2–28.4)	9.7	698	17.0 (16.2–17.8)	18.2 (17.5–18.9)	7.5	729	17.0 (16.2–17.8)	18.4 (17.7–19.1)	7.6
3-229	47	29.9 (23.1–36.7)	27.4 (23.6–31.2)	6.4	1,162	23.9 (23.1–24.7)	24.9 (24.0–25.7)	7.3	1,218	24.1 (23.3–25.0)	24.9 (24.1–25.8)	7.2
3-230	13	21.5 (14.5–28.6)	27.7 (19.9–35.5)	9.0	516	23.0 (21.7–24.3)	17.1 (15.6–18.5)	5.2	530	22.9 (21.6–24.2)	17.3 (15.9–18.7)	5.3
3-231	3	7.7 (1.9–13.5)	7.3 (3.9–10.8)	6.7	19	10.8 (8.2–13.5)	5.5 (3.9–7.0)	3.5	22	10.4 (8.0–12.8)	5.7 (4.3–7.2)	3.9
3-232	12	13.8 (9.8–17.9)	12.3 (8.9–15.6)	6.2	173	12.8 (11.5–14.2)	15.2 (13.8–16.5)	8.3	187	12.9 (11.6–14.2)	14.8 (13.6–16.1)	8.0
3-233	5	16.4 (7.4–25.4)	28.4 (13.8–43.0)	12.1	98	21.7 (18.9–24.4)	20.6 (17.5–23.6)	6.6	104	21.6 (19.0–24.2)	20.9 (18.0–23.9)	6.8
3-234	9	19.4 (6.0–32.9)	7.1 (4.1–10.1)	2.6	71	9.8 (8.3–11.3)	6.4 (5.1–7.6)	4.5	81	10.9 (8.8–12.9)	6.4 (5.3–7.6)	4.1
3-235	7	19.6 (12.8–26.3)	16.3 (10.9–21.7)	5.8	148	13.9 (12.3–15.5)	13.8 (12.5–15.1)	6.9	156	14.1 (12.6–15.7)	13.9 (12.6–15.2)	6.9
3-236	14	20.4 (14.5–26.2)	21.4 (14.5–28.4)	7.4	188	19.0 (17.4–20.7)	21.1 (18.9–23.2)	7.8	205	19.2 (17.6–20.7)	20.9 (18.9–23.0)	7.6
3-237	9	8.8 (4.3–13.3)	12.6 (5.0–20.1)	10.0	121	15.3 (13.7–16.9)	13.0 (10.0–15.9)	5.9	132	14.9 (13.4–16.4)	13.1 (10.3–15.9)	6.2
3-238	10	11.4 (4.7–18.1)	7.9 (4.8–11.0)	4.9	1	14.0	-1.0	-0.5	11	11.6 (5.5–17.7)	7.1 (3.9–10.3)	4.3
3-239	22	27.9 (20.5–35.3)	24.3 (20.0–28.6)	6.1	12	29.7 (14.3–45.0)	18.8 (16.2–21.3)	4.4	34	28.5 (21.4–35.6)	22.3 (19.3–25.4)	5.5
3-240	14	45.4 (34.6–56.2)	48.7 (42.4–55.0)	7.5	7	32.3 (13.5–51.1)	34.0 (15.8–52.2)	7.4	21	41.0 (31.4–50.7)	43.8 (36.1–51.5)	7.5
3-241	9	83.7 (48.2–119.2)	69.3 (54.4–84.3)	5.8	3	39.7 (0.0–88.1)	27.3 (-5.4–60.1)	4.8	12	72.7 (42.3–103.0)	58.8 (41.9–75.8)	5.7
3-242	77	12.6 (10.7–14.5)	8.7 (7.4–10.0)	4.8	728	13.1 (11.9–14.3)	6.3 (5.8–6.9)	3.4	807	13.1 (12.0–14.2)	6.6 (6.1–7.1)	3.5
3-243	77	21.3 (17.0–25.5)	17.7 (15.2–20.2)	5.8	954	15.9 (14.9–16.9)	12.5 (11.9–13.1)	5.5	1,038	16.3 (15.4–17.3)	12.9 (12.2–13.5)	5.5
3-244	110	26.4 (23.5–29.3)	22.5 (19.5–25.4)	6.0	1,310	21.2 (20.1–22.2)	17.3 (16.5–18.1)	5.7	1,427	21.5 (20.6–22.5)	17.7 (17.0–18.5)	5.8
3-245	32	31.1 (23.9–38.4)	24.0 (16.5–31.5)	5.4	286	24.3 (22.4–26.2)	14.4 (12.3–16.5)	4.1	318	25.0 (23.1–26.9)	15.3 (13.3–17.4)	4.3
Missing or excluded	111				636				771			
<b>All episodes</b>	<b>1,625</b>	<b>30.2 (28.7–31.7)</b>	<b>23.0 (22.1–23.9)</b>	<b>5.3</b>	<b>10,067</b>	<b>19.9 (19.6–20.3)</b>	<b>16.5 (16.2–16.8)</b>	<b>5.8</b>	<b>11,778</b>	<b>21.4 (21.0–21.7)</b>	<b>17.4 (17.1–17.7)</b>	<b>5.7</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