

AROC Ambulatory Report

January 2022 – December 2022

Anywhere Hospital



**Australasian
Faculty of
Rehabilitation
Medicine**



australian health services
research institute



**UNIVERSITY
OF WOLLONGONG
AUSTRALIA**

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Definition of ambulatory rehabilitation

- Starts with a multi-disciplinary assessment.
- Is multi-disciplinary, although all therapies may not necessarily be delivered concurrently.
- Is goal orientated – includes goal setting and review.
- The program of care is time limited.
- Is delivered in an ambulatory setting, either centre or community based.

Ambulatory rehabilitation may occur as:

- The continuation of an inpatient episode of rehabilitation.
- A rehabilitation program provided solely in an ambulatory setting.

AROC ambulatory data collection



- The AROC dataset includes items that relate specifically to evaluating the efficacy of ambulatory rehabilitation programs.
- Data is collected to reflect the program of rehabilitation, thus an 'episode' is defined by the initial and final service contact.
- The challenge in developing the dataset was to include an outcome tool that could best address the diverse range of service models and impairment groups represented in ambulatory rehabilitation, with a minimum burden on resources.
- The over-arching outcome tool included in the dataset is the Australian Modified Lawton's Instrumental Activities of Daily Living (IADL) scale. (see Appendix 1)
- Impairment or discipline specific outcomes tools have been added to the dataset to provide more outcome specificity by cohort. (see Appendix 4)
- V4.1 of the AROC dataset was introduced on 1 July 2017. (see Appendix 2)
- V4 AROC data items have been mapped to the V4.1 AROC dataset.

All impairments

- Australian Modified Lawton's IADL Scale

Stroke

- Upper Limb Motor Assessment Scale (if relevant)
- Timed 10 metre walk test (if relevant)
- Aphasia tool (specify tool used)

Brain Dysfunction

- Mayo - Portland Adaptability Inventory - 4 (MPAI-4)

Orthopaedic conditions

- Timed 10 metre walk test

Reconditioning

- de Morton Mobility Index (DEMMI)

Amputation of limb

- Timed up and go
- 6 minute walk test (optional)
- Timed 10 metre walk test (optional)

- Demographic and episode start information is reported for all episodes.
- An episode is considered "complete" for the purpose of calculating outcome statistics in this report when mode of episode end is discharged to final or interim destination.
- Outcome measures are based on completed episodes, as defined above, however the volume of reported data may be further reduced if data items are missing.

Interpretation of results



- This descriptive report includes analysis of data that has been collected by your service, and the combined submitted data of all participating ambulatory rehabilitation services.
- Where sufficient data for an impairment group is available (≥ 5), AROC provides comparison analysis.
- The data presented in this report represents a small proportion of all ambulatory rehabilitation services and models of service delivery. Interpretation of these results must be made with care.

Completeness of data reported

Number of episodes submitted each month to AROC by

Anywhere Hospital

Do these numbers look like a complete year was submitted?

	No. episodes
Month	
January	6
February	14
March	17
April	13
May	22
June	23
July	21
August	9
September	19
October	19
November	17
December	28
Full year	208

Completeness of data reported

AROC core data set items	Item collected	
	No.	%
Path	208	100.0
Facility code	208	100.0
Facility name	208	100.0
Ward code ¹	177	85.1
Ward name ¹	175	84.1
MRN	208	100.0
Letters of name	207	99.5
Date of birth	207	99.5
DOB estimate flag	208	100.0
Sex	208	100.0
Indigenous status	208	100.0
Geographical residence	208	100.0
Postcode	206	99.0
Episode begin date	208	100.0
Episode end date	208	100.0
Funding source	208	100.0
Health fund/other payer	102	100.0
NDIS	191	91.8
Referral date	208	100.0
Impairment code	208	100.0
Onset date &/or time since onset	203	97.6
Relevant inpatient episode date	204	98.1
Episode begin reason	206	99.0
First direct care episode	207	99.5
Interpreter required	206	99.0
Date of multi-disciplinary rehab plan	201	96.6
Accommodation prior to episode	205	98.6
Carer status prior to episode	202	99.5
Employment status prior to episode	205	98.6
Accommodation during episode	204	98.1
Carer status during episode	195	99.0
Existing comorbidity interfering with rehab	206	99.0
— Comorbidities identified	79	100.0

AROC core data set items	Item collected	
	No.	%
Cognitive impairment impacting rehab	203	97.6
Episode end reason	206	99.0
Final accommodation – episode end	202	99.5
Carer status – episode end	197	100.0
Employment status after discharge	56	26.9 ←
Return to pre-impairment activities	202	97.1
Days seen	192	92.3
Occasions of service	192	92.3
Disciplines involved in therapy	197	94.7
Lawton's start date	204	98.1
Lawton's start items	205	98.6
Lawton's end date	195	93.8
Lawton's end items	196	94.2
GAS start date ¹	12	5.8
GAS start scores ¹	12	5.8
GAS end date ¹	11	5.3
GAS end scores ¹	12	5.8

Impairment specific items

Stroke	No.	%
— Rehab aimed at upper limb function	35	76.1 ←
— Rehab aimed at gait retraining	33	71.7 ←
— Rehab aimed at aphasia	33	71.7 ←
— ULMAS start date	7	63.6 ←
— ULMAS start scores	7	63.6 ←
— ULMAS end date	8	72.7 ←
— ULMAS end scores	8	72.7 ←
— Timed ten metre walk start date	11	78.6 ←
— Timed ten metre walk test on admission	11	78.6 ←
— Timed ten metre walk end date	9	64.3 ←
— Timed ten metre walk test on discharge	11	78.6 ←

AROC impairment specific items	Item collected	
	No.	%
Brain injury*	9	
— MPAI4 start date	3	33.3 ←
— MPAI4 start scores	3	33.3 ←
— MPAI4 end date	3	33.3 ←
— MPAI4 end scores	3	33.3 ←
Spinal cord injury*	4	
— Injury start level	3	75.0 ←
Reconditioning	24	
— DEMMI start date	15	62.5 ←
— DEMMI start scores	15	62.5 ←
— DEMMI end date	14	58.3 ←
— DEMMI end scores	14	58.3 ←
Amputation of limb	4	
— Phase of care at episode start	4	100.0
— Phase of care during episode	4	100.0
— Phase of care at episode end	4	100.0
— Prosthetic device fitted	4	100.0
— Casting date ²	4	100.0
— Date of first prosthetic fitting ²	4	100.0
— Reason for delay in fitting ²	1	25.0
— Timed up and go test	4	100.0
— Six min walk test ¹	3	75.0
— Ten metre walk test ¹	2	50.0
Orthopaedic conditions	90	
— Timed ten metre walk start date	68	75.6 ←
— Timed ten metre walk test on admission	58	64.4 ←
— Timed ten metre walk end date	67	74.4 ←
— Timed ten metre walk test on discharge	63	70.0 ←

*Also includes MMT that contain this impairment

Overall data completeness score **85.3**

NOTE: AROC can provide case listings of missing data to assist with updating.

(1) These data items are optional to collect

(2) Not included in overall data completeness score

Demographic data



The following section provides demographic data. These data are presented at service and national levels.

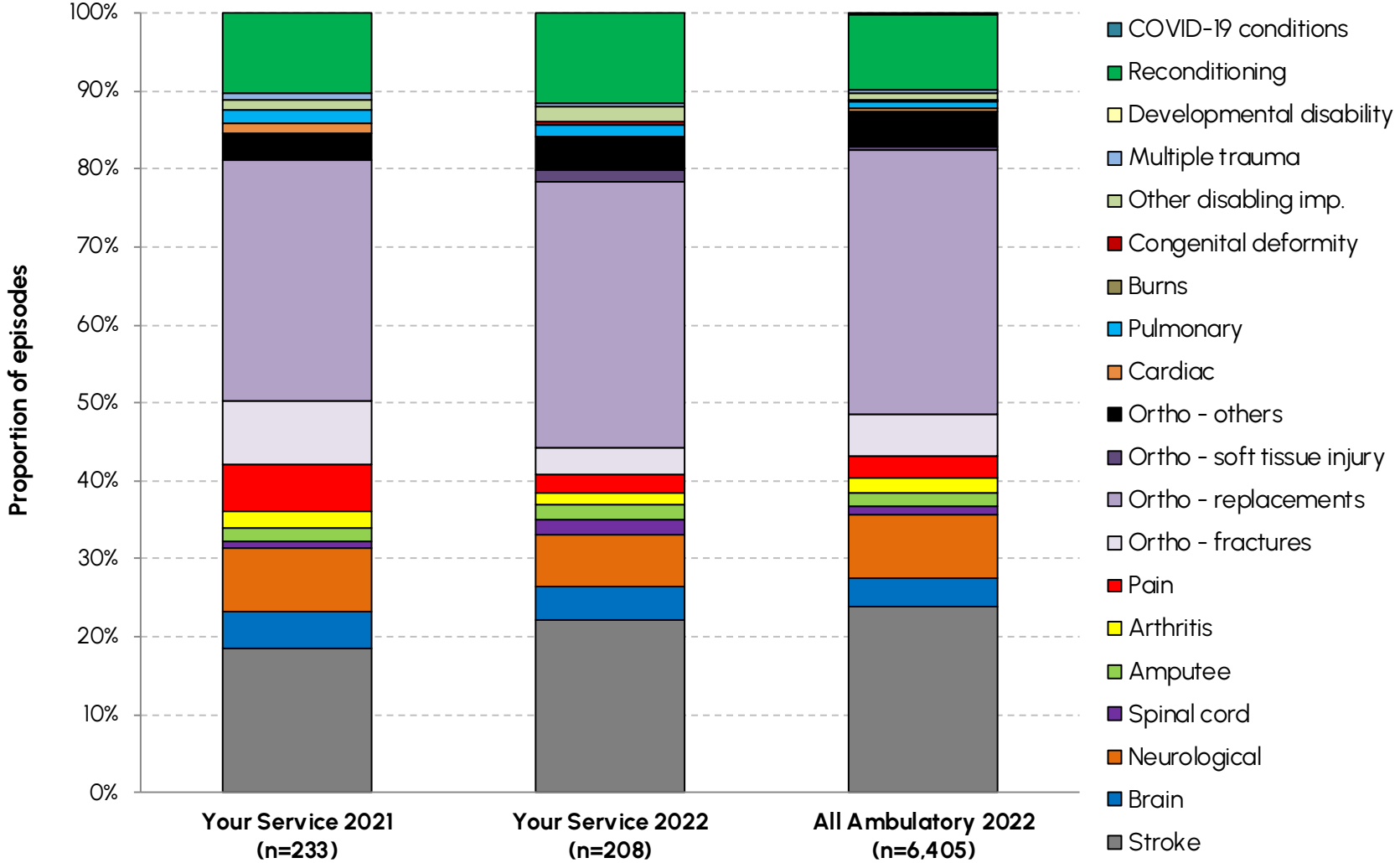
Such data are useful to provide context to the more detailed analysis of rehabilitation outcomes, but in themselves are not impacted by clinical practice.

Distribution of services and episodes

	Public		Private		All Ambulatory	
	No.	%	No.	%	No.	%
Facilities						
New South Wales	5	13.9	10	27.8	15	41.7
Victoria	0	—	0	—	0	—
Queensland	2	5.6	4	11.1	6	16.7
South Australia	7	19.4	0	—	7	19.4
Western Australia	1	2.8	1	2.8	2	5.6
Tasmania	1	2.8	0	—	1	2.8
Australian territories	0	—	1	2.8	1	2.8
NZ	4	11.1			4	11.1
Total	20	55.6	16	44.4	36	100.0

Episodes						
New South Wales	408	6.4	2,435	37.9	2,843	44.3
Victoria	0	—	0	—	0	—
Queensland	657	10.2	364	5.7	1,021	15.9
South Australia	1,216	18.9	0	—	1,216	18.9
Western Australia	336	5.2	58	0.9	394	6.1
Tasmania	9	0.1	0	—	9	0.1
Australian territories	0	—	328	5.1	328	5.1
NZ	606	9.4			606	9.4
Total	3,232	50.4	3,185	49.6	6,417	100.0

Episodes by impairment group



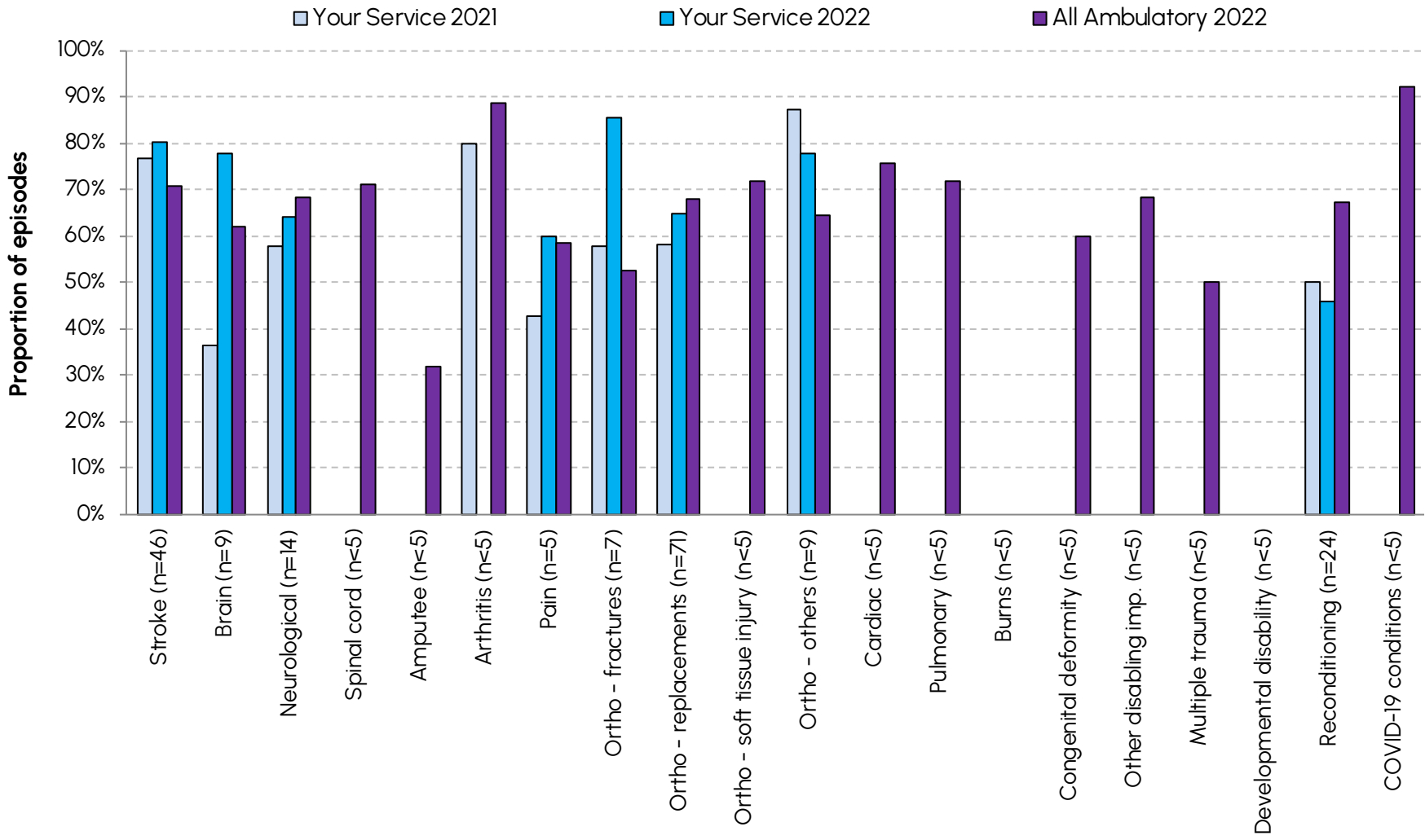
NOTE: For a full list of impairment codes please refer to Appendix 4

Episodes by impairment group

Impairment group	Your Service 2021		Your Service 2022		All Ambulatory 2022	
	No.	%	No.	%	No.	%
Stroke	43	18.5	46	22.1	1,529	23.9
Brain	11	4.7	9	4.3	234	3.7
Neurological	19	8.2	14	6.7	527	8.2
Spinal cord	2	0.9	4	1.9	69	1.1
Amputee	4	1.7	4	1.9	100	1.6
Arthritis	5	2.1	3	1.4	132	2.1
Pain	14	6.0	5	2.4	176	2.7
Ortho - fractures	19	8.2	7	3.4	349	5.4
Ortho - replacements	72	30.9	71	34.1	2,164	33.8
Ortho - soft tissue injury	0	—	3	1.4	25	0.4
Ortho - others	8	3.4	9	4.3	290	4.5
Cardiac	3	1.3	0	—	37	0.6
Pulmonary	4	1.7	3	1.4	50	0.8
Burns	0	—	0	—	3	0.0
Congenital deformity	0	—	1	0.5	5	0.1
Other disabling imp.	3	1.3	4	1.9	57	0.9
Multiple trauma	2	0.9	1	0.5	24	0.4
Developmental disability	0	—	0	—	0	—
Reconditioning	24	10.3	24	11.5	621	9.7
COVID-19 conditions	0	—	0	—	13	0.2
Missing or excluded	0	—	0	—	12	—
All episodes	233	100.0	208	100.0	6,417	100.0

NOTE: For a full list of impairment codes please refer to Appendix 4

First direct care rehabilitation episode by impairment group



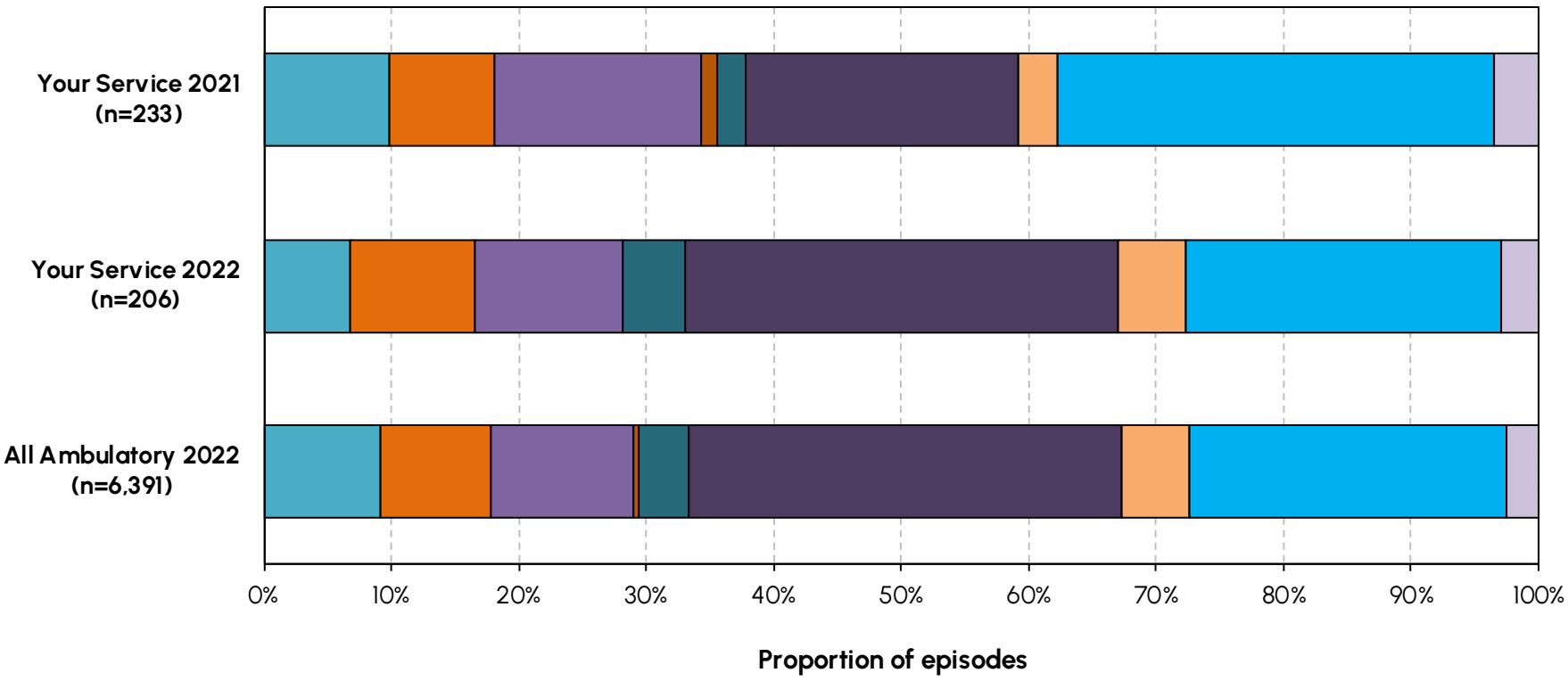
First direct care rehabilitation episode by impairment group

Impairment group	Your Service 2021				Your Service 2022				All Ambulatory 2022			
	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing
Stroke	43	33	10	0	46	37	8	1	1,529	1,083	426	20
Brain	11	4	7	0	9	7	2	0	234	145	85	4
Neurological	19	11	8	0	14	9	5	0	527	361	160	6
Spinal cord	2	1	1	0	4	2	2	0	69	49	20	0
Amputee	4	0	4	0	4	2	2	0	100	32	68	0
Arthritis	5	4	1	0	3	3	0	0	132	117	15	0
Pain	14	6	8	0	5	3	2	0	176	103	73	0
Ortho - fractures	19	11	8	0	7	6	1	0	349	184	165	0
Ortho - replacements	72	42	30	0	71	46	25	0	2,164	1,473	689	2
Ortho - soft tissue injury	0	0	0	0	3	2	1	0	25	18	7	0
Ortho - others	8	7	1	0	9	7	2	0	290	187	102	1
Cardiac	3	3	0	0	0	0	0	0	37	28	9	0
Pulmonary	4	3	1	0	3	3	0	0	50	36	14	0
Burns	0	0	0	0	0	0	0	0	3	2	1	0
Congenital deformity	0	0	0	0	1	0	1	0	5	3	2	0
Other disabling imp.	3	2	1	0	4	3	1	0	57	39	17	1
Multiple trauma	2	1	1	0	1	0	1	0	24	12	12	0
Developmental disability	0	0	0	0	0	0	0	0	0	0	0	0
Reconditioning	24	12	12	0	24	11	13	0	621	419	201	1
Missing or excluded	0				0				12			
All episodes	233	140	93	0	208	141	66	1	6,404	4,291	2,066	35

Episode source



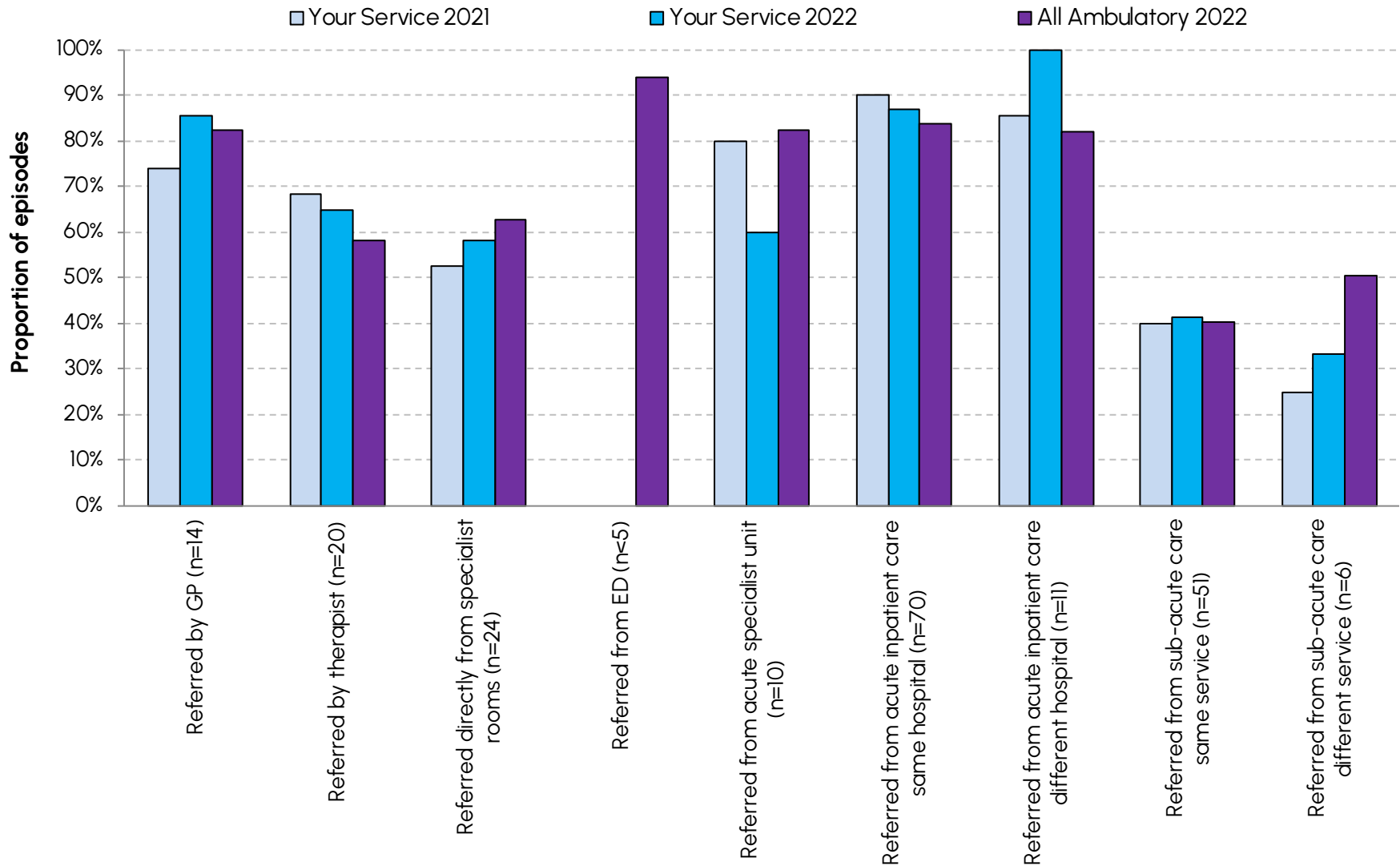
- Referred by GP
- Referred by therapist
- Referred directly from specialist rooms
- Referred from ED
- Referred from acute specialist unit
- Referred from acute inpatient care same hospital
- Referred from acute inpatient care different hospital
- Referred from sub-acute care same service
- Referred from sub-acute care different service



Episode source

Episode source	Your Service 2021		Your Service 2022		All Ambulatory 2022	
	No.	%	No.	%	No.	%
Referred by GP	23	9.9	14	6.8	582	9.1
Referred by therapist	19	8.2	20	9.7	558	8.7
Referred directly from specialist rooms	38	16.3	24	11.7	710	11.1
Referred from ED	3	1.3	0	—	34	0.5
Referred from acute specialist unit	5	2.1	10	4.9	247	3.9
Referred from acute inpatient care same hospital	50	21.5	70	34.0	2,171	34.0
Referred from acute inpatient care different hospital	7	3.0	11	5.3	339	5.3
Referred from sub-acute care same service	80	34.3	51	24.8	1,591	24.9
Referred from sub-acute care different service	8	3.4	6	2.9	159	2.5
Missing	0		2		26	
All episodes	233	100	208	100	6,417	100

First direct care rehabilitation episode by episode source

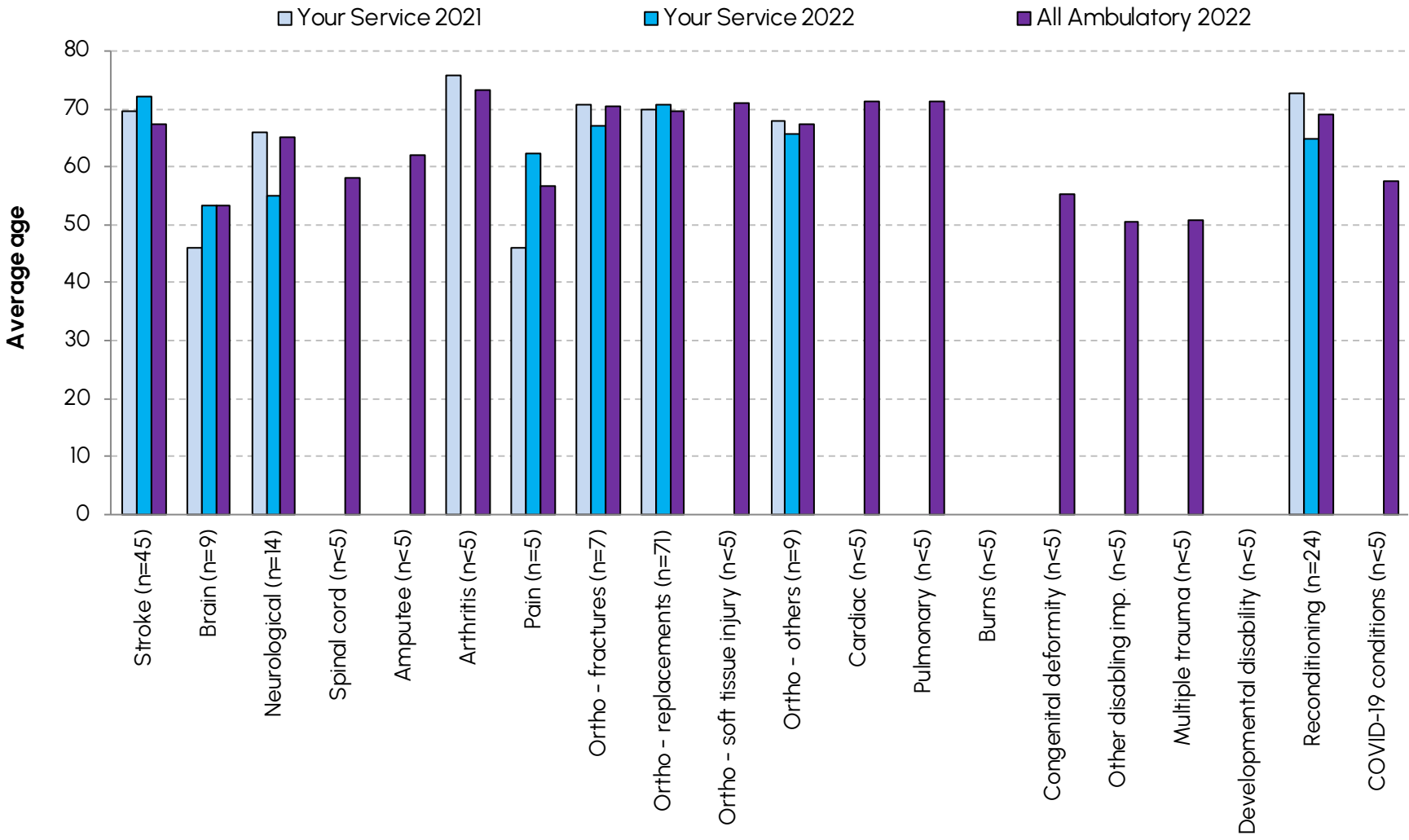


First direct care rehabilitation episode by episode source



Impairment group	Your Service 2021				Your Service 2022				All Ambulatory 2022			
	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing
Referred by GP	23	17	6	0	14	12	2	0	582	479	101	2
Referred by therapist	19	13	6	0	20	13	7	0	558	324	229	5
Referred directly from specialist rooms	38	20	18	0	24	14	10	0	710	446	262	2
Referred from ED	3	1	2	0	0	0	0	0	34	32	2	0
Referred from acute specialist unit	5	4	1	0	10	6	4	0	247	204	41	2
Referred from acute inpatient care same hospital	50	45	5	0	70	61	9	0	2,171	1,821	345	5
Referred from acute inpatient care different hospital	7	6	1	0	11	11	0	0	339	278	61	0
Referred from sub-acute care same service	80	32	48	0	51	21	30	0	1,591	641	948	2
Referred from sub-acute care different service	8	2	6	0	6	2	4	0	159	80	78	1
Missing	0	0	0	0	2	1	0	1	26	7	2	17
All episodes	233	140	93	0	208	141	66	1	6,417	4,312	2,069	36

Age by impairment group



Age by impairment group

Impairment group	Your Service 2021			Your Service 2022			All Ambulatory 2022		
	No.	Mean age	(95% CI)	No.	Mean age	(95% CI)	No.	Mean age	(95% CI)
Stroke	43	69.7	(65.5 – 73.8)	45	72.2	(68.0 – 76.4)	1,520	67.5	(66.8 – 68.2)
Brain	11	45.9	(35.3 – 56.5)	9	53.3	(44.1 – 62.6)	233	53.3	(51.0 – 55.6)
Neurological	19	65.8	(58.3 – 73.4)	14	54.9	(44.3 – 65.5)	525	65.2	(63.7 – 66.6)
Spinal cord	2	43.5	(-2.6 – 89.6)	4	60.8	(33.5 – 88.0)	69	58.0	(54.0 – 61.9)
Amputee	4	58.5	(39.2 – 77.8)	4	60.8	(57.7 – 63.8)	99	62.0	(59.3 – 64.7)
Arthritis	5	75.8	(71.1 – 80.5)	3	75.0	(56.9 – 93.1)	132	73.3	(71.4 – 75.2)
Pain	14	46.1	(34.0 – 58.1)	5	62.2	(44.8 – 79.6)	176	56.7	(53.9 – 59.6)
Ortho - fractures	19	70.7	(64.5 – 76.9)	7	67.0	(56.2 – 77.8)	349	70.5	(68.8 – 72.1)
Ortho - replacements	72	70.0	(68.1 – 71.9)	71	70.6	(68.1 – 73.0)	2,164	69.5	(69.1 – 69.9)
Ortho - soft tissue injury	0	—		3	62.7	(42.4 – 83.0)	25	71.0	(65.3 – 76.8)
Ortho - others	8	67.9	(58.2 – 77.6)	9	65.7	(59.4 – 71.9)	290	67.3	(65.6 – 69.0)
Cardiac	3	64.7	(56.2 – 73.2)	0	—		37	71.3	(67.4 – 75.3)
Pulmonary	4	73.5	(66.0 – 81.0)	3	66.3	(47.0 – 85.7)	50	71.2	(68.0 – 74.3)
Burns	0	—		0	—		3	—	
Congenital deformity	0	—		1	74.0		5	55.4	(41.7 – 69.1)
Other disabling imp.	3	61.0	(19.8 – 102.2)	4	49.0	(29.7 – 68.3)	57	50.6	(45.5 – 55.6)
Multiple trauma	2	76.0	(54.4 – 97.6)	1	21.0		24	50.8	(42.3 – 59.3)
Developmental disability	0	—		0	—		0	—	
Reconditioning	24	72.6	(65.9 – 79.4)	24	64.9	(57.4 – 72.3)	618	69.1	(67.9 – 70.3)
COVID-19 conditions	0	0.0	0	1	0.0	0	41	0.0	0
Missing or excluded	0			1			41		
All episodes	233	66.9	(64.8 – 69.0)	208	66.8	(64.7 – 68.9)	6,417	67.2	(66.9 – 67.6)

NDIS funding status at episode end

Episode source	Your Service 2021		Your Service 2022		All Ambulatory 2022 (AU)	
	No.	%	No.	%	No.	%
Accepted - on a plan	5	2.3	8	4.2	177	3.1
Accepted - waiting	0	—	1	0.5	33	0.6
Awaiting eligibility determination	3	1.4	6	3.1	134	2.3
Eligible - hasn't applied	8	3.8	11	5.8	189	3.3
Eligible - NDIS not yet available in the region	0	—	0	—	4	0.1
Not eligible / not relevant	197	92.5	165	86.4	5,233	90.7
Missing	20		17		41	
All episodes (AU)	233		208		5,811	

Staff type by impairment group

Percentage of patients receiving treatment from this staff type	Physiotherapist	Hydrotherapist	Occupational Therapist	Exercise Physiologist	Therapy Aide	Medical Officer	Registered Nurse	Enrolled Nurse	Speech Pathologist	Social Worker	Dietician	Psychologist	Other Staff Type
Impairment group													
Stroke (n=42)	73.8	2.4	90.5	7.1	35.7	11.9	11.9	7.1	50.0	42.9	2.4	7.1	33.3
Brain (n=9)	88.9	0.0	88.9	22.2	44.4	11.1	0.0	0.0	33.3	22.2	0.0	11.1	44.4
Neurological (n=13)	100.0	23.1	69.2	46.2	15.4	15.4	7.7	7.7	30.8	15.4	0.0	15.4	30.8
Spinal cord (n=1)	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amputee (n=3)	100.0	0.0	66.7	33.3	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	33.3
Arthritis (n=3)	100.0	33.3	100.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7	33.3	0.0	66.7
Pain (n=5)	100.0	0.0	80.0	20.0	40.0	20.0	0.0	0.0	20.0	20.0	0.0	40.0	0.0
Ortho - fractures (n=7)	100.0	28.6	42.9	14.3	42.9	28.6	0.0	0.0	0.0	42.9	0.0	0.0	28.6
Ortho - replacements (n=71)	98.6	56.3	77.5	25.4	36.6	19.7	8.5	1.4	0.0	0.0	18.3	0.0	11.3
Ortho - soft tissue injury (n=3)	100.0	33.3	66.7	0.0	66.7	33.3	0.0	0.0	0.0	0.0	0.0	0.0	33.3
Ortho - others (n=9)	100.0	66.7	33.3	66.7	33.3	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0
Cardiac (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—
Pulmonary (n=3)	100.0	0.0	100.0	0.0	66.7	0.0	0.0	0.0	33.3	100.0	33.3	0.0	33.3
Burns (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—
Congenital deformity (n=1)	100.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
Other disabling imp. (n=3)	66.7	0.0	66.7	0.0	0.0	33.3	0.0	0.0	33.3	33.3	0.0	0.0	66.7
Multiple trauma (n=1)	100.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Developmental disability (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—
Reconditioning (n=23)	95.7	21.7	73.9	30.4	34.8	26.1	4.3	4.3	17.4	21.7	13.0	4.3	13.0
COVID-19 conditions (n=0)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

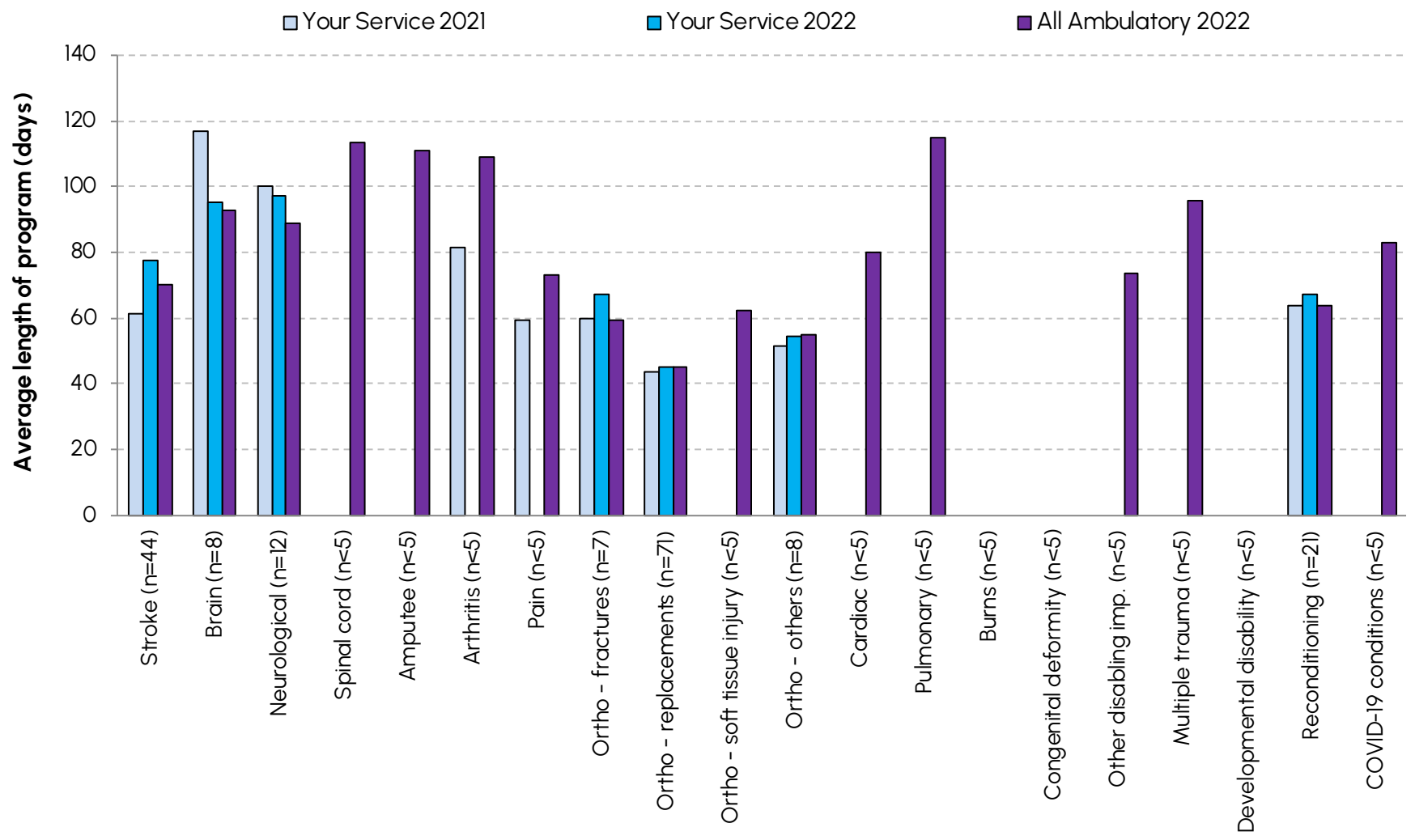
Outcome measures – All impairments



The following section presents analysis of each of the following elements:

- Episode length
- Occasions of service
- Employment status
- Independence outcomes
- Lawton's score outcomes

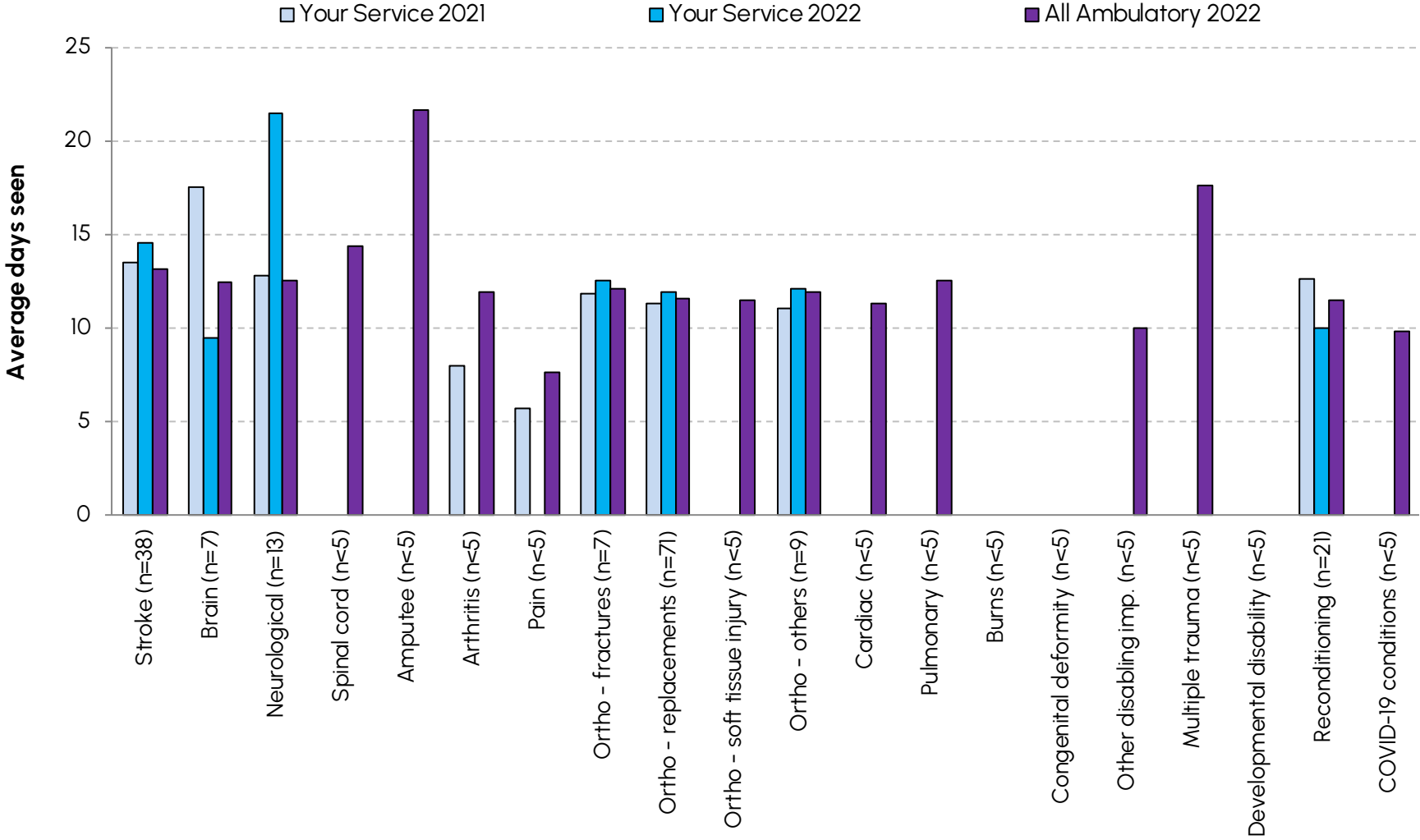
Length of program by impairment group



Length of program by impairment group

Impairment group	Your Service 2021			Your Service 2022			All Ambulatory 2022		
	No.	Mean LOP	Trimmed data range*	No.	Mean LOP	Trimmed data range*	No.	Mean LOP	Trimmed data range*
Stroke	38	61.3	(21 – 119)	44	77.8	(22 – 253)	1,435	70.4	(16 – 178)
Brain	10	116.7		8	95.1		217	92.7	(22 – 230)
Neurological	18	99.9		12	97.4		484	89.0	(22 – 228)
Spinal cord	1	—		4	—		51	113.3	(42 – 315)
Amputee	4	—		3	—		81	110.7	(25 – 246)
Arthritis	5	81.4		3	—		117	109.2	(35 – 245)
Pain	7	59.6		2	—		119	73.3	(10 – 211)
Ortho - fractures	19	59.9		7	67.3		333	59.6	(21 – 128)
Ortho - replacements	63	43.6	(21 – 72)	71	45.2	(16 – 98)	2,079	45.1	(18 – 89)
Ortho - soft tissue injury	0	—		3	—		22	62.5	(29 – 147)
Ortho - others	6	51.3		8	54.4		276	54.9	(16 – 121)
Cardiac	3	—		0	—		34	80.0	(28 – 165)
Pulmonary	3	—		3	—		44	114.8	(35 – 231)
Burns	0	—		0	—		3	—	
Congenital deformity	0	—		1	—		4	—	
Other disabling imp.	2	—		4	—		52	73.6	(28 – 140)
Multiple trauma	2	—		1	—		24	95.7	(37 – 263)
Developmental disability	0	—		0	—		0	—	
Reconditioning	21	63.7	(23 – 120)	21	67.1	(19 – 226)	565	63.7	(20 – 149)
COVID-19 conditions	0	—		0	—		11	83.1	
Missing or excluded	31			13			477		
All episodes	233	61.3	(14 – 168)	208	71.3	(15 – 215)	6,417	64.0	(18 – 165)

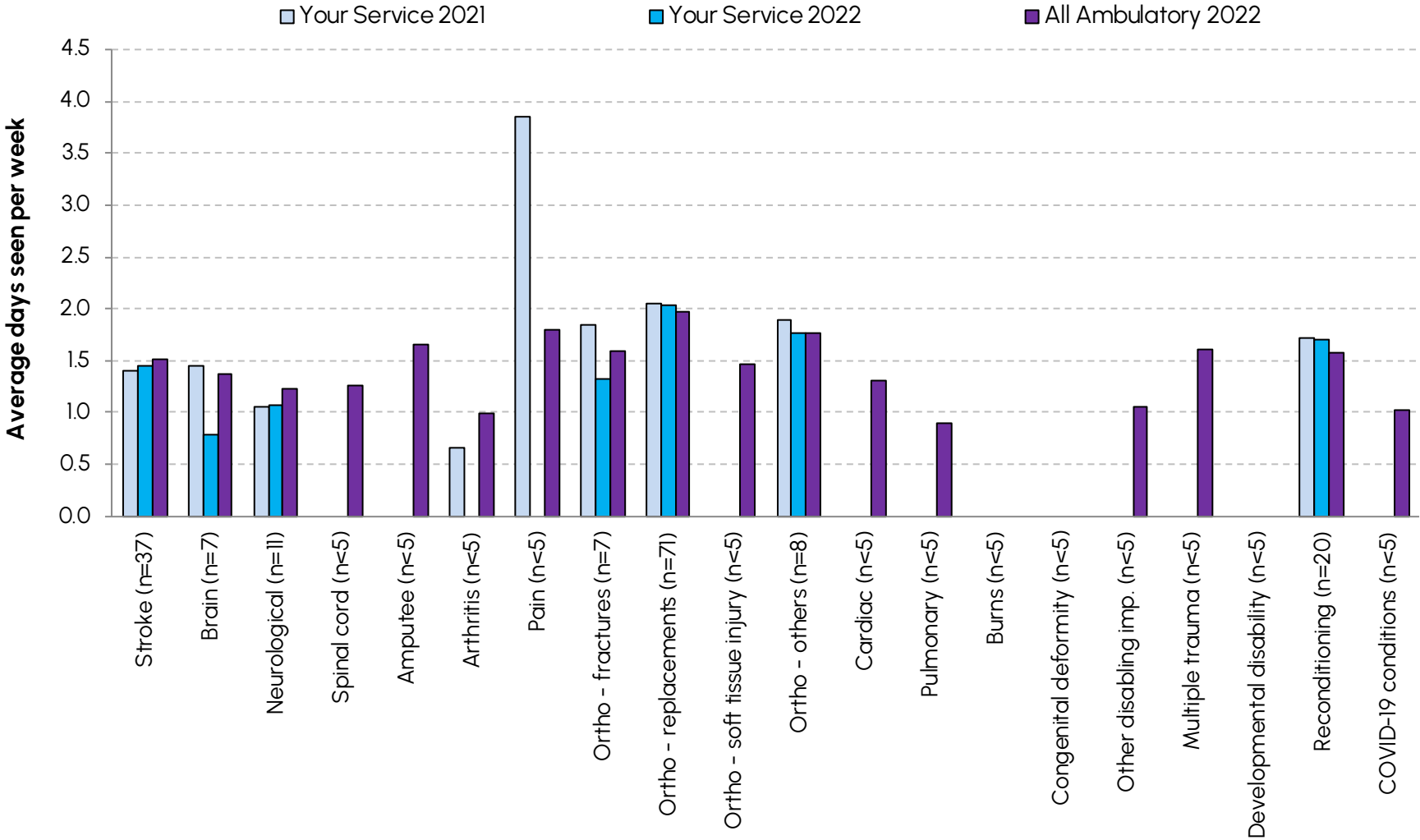
Days seen by impairment group



Days seen by impairment group

Impairment group	Your Service 2021			Your Service 2022			All Ambulatory 2022		
	No.	Mean days seen	Trimmed data range*	No.	Mean days seen	Trimmed data range*	No.	Mean days seen	Trimmed data range*
Stroke	41	13.5	(2 – 33)	38	14.6	(2 – 50)	1,366	13.1	(2 – 35)
Brain	8	17.5		7	9.4		142	12.5	(3 – 29)
Neurological	17	12.8		13	21.5		459	12.5	(2 – 27)
Spinal cord	1	—		1	—		44	14.3	(2 – 32)
Amputee	3	—		3	—		64	21.6	(5 – 60)
Arthritis	5	8.0		3	—		124	11.9	(1 – 21)
Pain	14	5.6		4	—		167	7.6	(1 – 18)
Ortho - fractures	19	11.8		7	12.6		325	12.1	(3 – 24)
Ortho - replacements	65	11.3	(3 – 20)	71	11.9	(5 – 20)	2,119	11.5	(4 – 20)
Ortho - soft tissue injury	0	—		3	—		21	11.5	(5 – 20)
Ortho - others	6	11.0		9	12.1		272	11.9	(4 – 20)
Cardiac	3	—		0	—		35	11.3	(6 – 29)
Pulmonary	3	—		3	—		44	12.6	(4 – 23)
Burns	0	—		0	—		3	—	
Congenital deformity	0	—		1	—		4	—	
Other disabling imp.	2	—		3	—		45	10.0	(2 – 21)
Multiple trauma	2	—		1	—		23	17.7	(7 – 38)
Developmental disability	0	—		0	—		0	—	
Reconditioning	20	12.7	(8 – 23)	21	10.0	(4 – 22)	532	11.5	(3 – 23)
COVID-19 conditions	0	—		0	—		12	9.8	
Missing or excluded	24			20			628		
All episodes	233	11.7	(2 – 24)	208	13.1	(2 – 27)	6,417	12.2	(3 – 25)

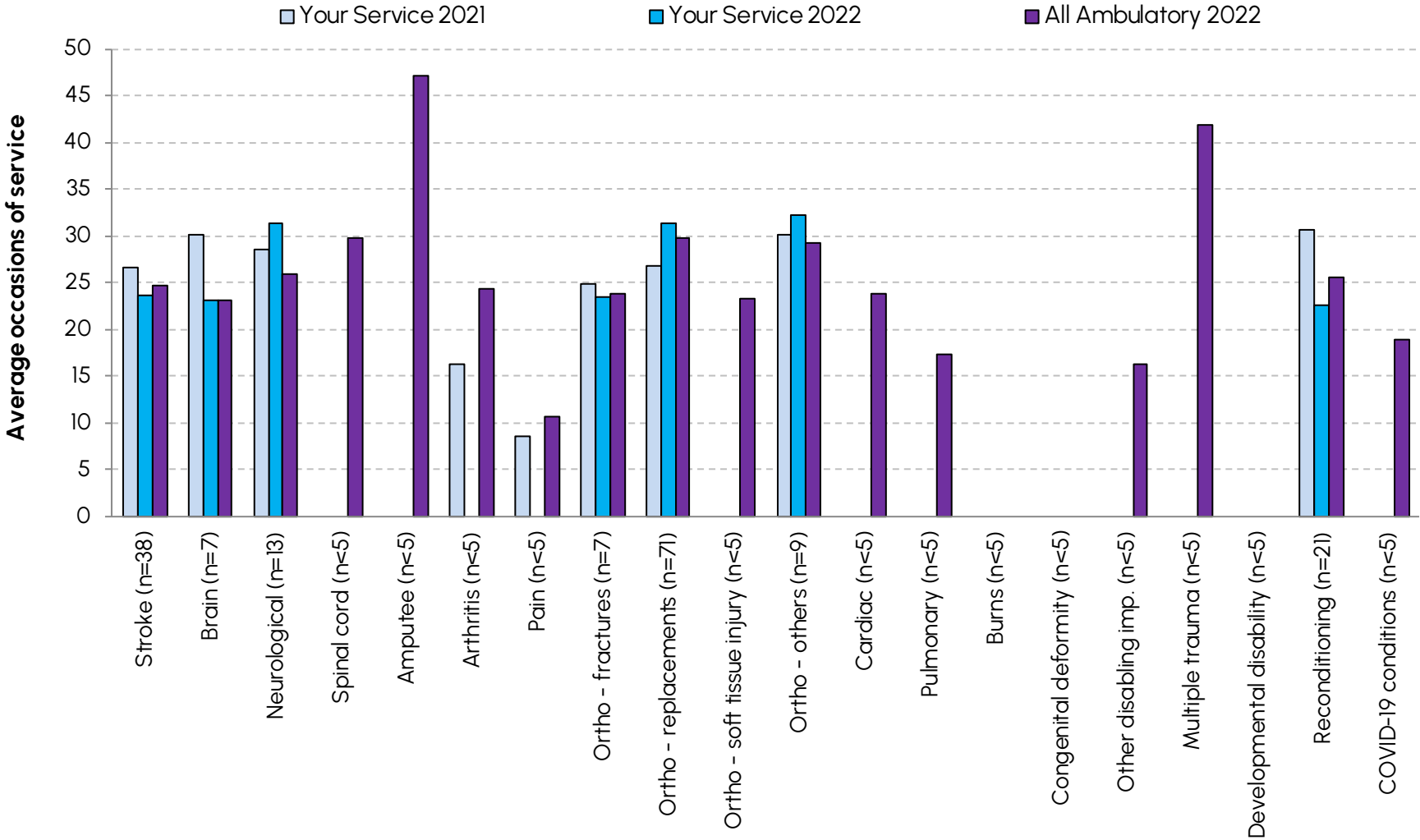
Days seen per elapsed week by impairment group



Days seen per elapsed week by impairment group

Impairment group	Your Service 2021			Your Service 2022			All Ambulatory 2022		
	No.	Mean days seen per week	Trimmed data range*	No.	Mean days seen per week	Trimmed data range*	No.	Mean days seen per week	Trimmed data range*
Stroke	38	1.4	(0.3 – 2.9)	37	1.5	(0.4 – 2.8)	1,337	1.5	(0.3 – 3.5)
Brain	8	1.4		7	0.8		140	1.4	(0.2 – 3.0)
Neurological	17	1.1		11	1.1		450	1.2	(0.2 – 2.5)
Spinal cord	1	—		1	—		43	1.3	(0.4 – 2.2)
Amputee	3	—		2	—		59	1.6	(0.2 – 4.0)
Arthritis	5	0.7		3	—		117	1.0	(0.2 – 2.1)
Pain	7	3.8		2	—		115	1.8	(0.3 – 6.2)
Ortho - fractures	19	1.9		7	1.3		321	1.6	(0.6 – 2.6)
Ortho - replacements	63	2.0	(1.0 – 3.0)	71	2.0	(1.1 – 3.0)	2,077	2.0	(1.0 – 3.0)
Ortho - soft tissue injury	0	—		3	—		21	1.5	(0.5 – 2.3)
Ortho - others	5	1.9		8	1.8		266	1.8	(0.9 – 2.5)
Cardiac	3	—		0	—		34	1.3	(0.4 – 2.3)
Pulmonary	3	—		3	—		44	0.9	(0.3 – 1.8)
Burns	0	—		0	—		3	—	
Congenital deformity	0	—		1	—		4	—	
Other disabling imp.	2	—		3	—		43	1.1	(0.4 – 2.1)
Multiple trauma	2	—		1	—		23	1.6	(0.7 – 2.5)
Developmental disability	0	—		0	—		0	—	
Reconditioning	20	1.7	(0.7 – 2.4)	20	1.7	(0.3 – 2.3)	519	1.6	(0.4 – 3.2)
COVID-19 conditions	0	—		0	—		11	1.0	
Missing or excluded	37			28			801		
All episodes	233	1.8	(0.4 – 3.5)	208	1.6	(0.4 – 2.8)	6,417	1.7	(0.4 – 3.0)

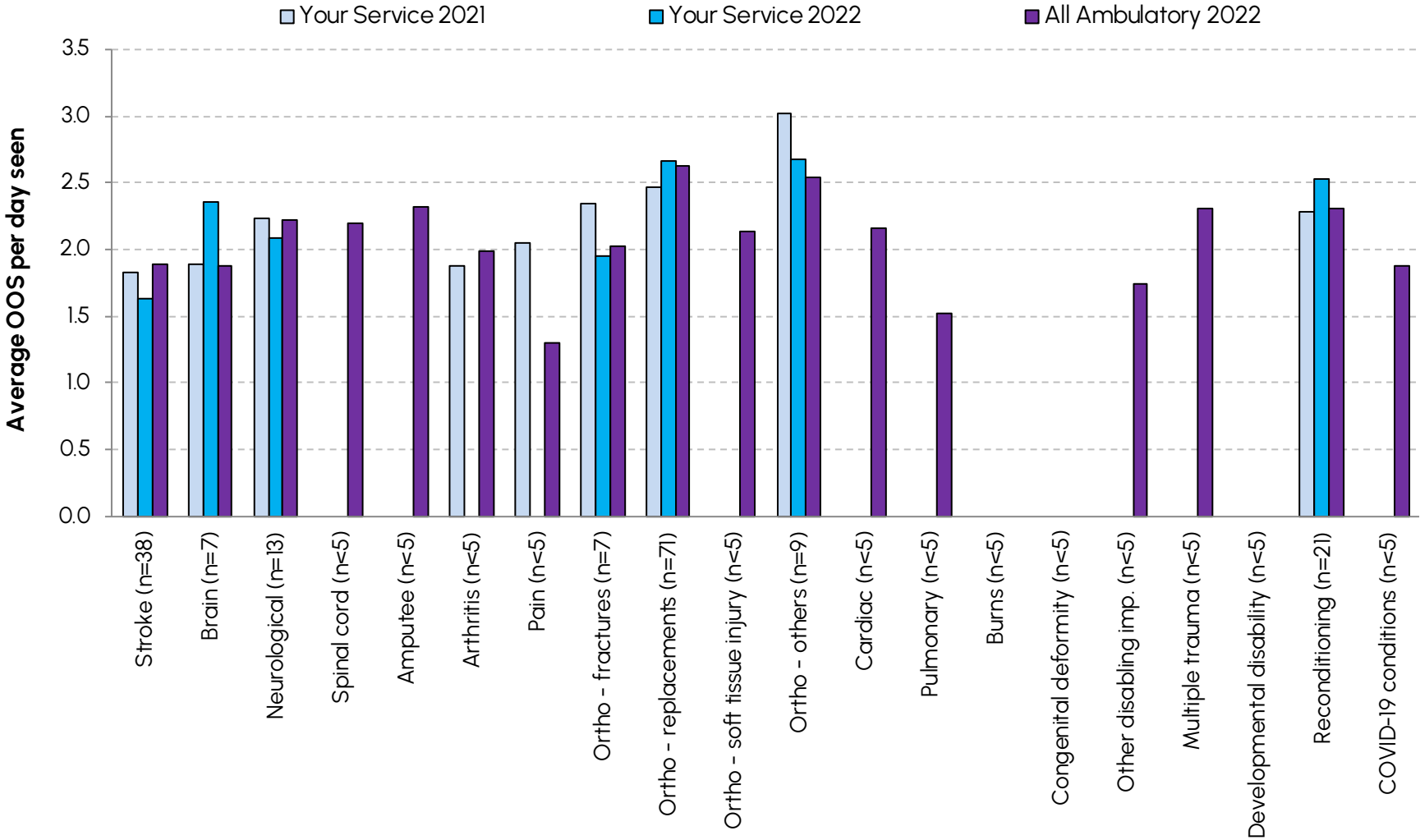
Occasions of service by impairment group



Occasions of service by impairment group

Impairment group	Your Service 2021			Your Service 2022			All Ambulatory 2022		
	No.	Mean of service occasions	Trimmed data range*	No.	Mean of service occasions	Trimmed data range*	No.	Mean of service occasions	Trimmed data range*
Stroke	41	26.7	(4 – 86)	38	23.6	(3 – 96)	1,364	24.7	(3 – 71)
Brain	8	30.1		7	23.1		143	23.1	(4 – 55)
Neurological	17	28.6		13	31.5		460	26.0	(4 – 59)
Spinal cord	1	—		1	—		44	29.9	(8 – 58)
Amputee	3	—		3	—		64	47.1	(11 – 131)
Arthritis	5	16.2		3	—		124	24.4	(3 – 60)
Pain	14	8.6		4	—		167	10.6	(1 – 34)
Ortho - fractures	19	24.9		7	23.4		325	23.9	(5 – 57)
Ortho - replacements	65	26.7	(9 – 60)	71	31.5	(12 – 60)	2,118	29.7	(9 – 60)
Ortho - soft tissue injury	0	—		3	—		21	23.4	(7 – 48)
Ortho - others	6	30.2		9	32.2		272	29.3	(8 – 60)
Cardiac	3	—		0	—		35	23.8	(6 – 39)
Pulmonary	3	—		3	—		44	17.4	(5 – 35)
Burns	0	—		0	—		3	—	
Congenital deformity	0	—		1	—		4	—	
Other disabling imp.	2	—		3	—		45	16.3	(4 – 37)
Multiple trauma	2	—		1	—		23	41.9	(17 – 111)
Developmental disability	0	—		0	—		0	—	
Reconditioning	20	30.6	(3 – 55)	21	22.6	(7 – 39)	531	25.7	(6 – 49)
COVID-19 conditions	0	—		0	—		12	18.9	
Missing or excluded	24	—		20	—		630	—	
All episodes	233	25.7	(3 – 65)	208	27.4	(5 – 60)	6,417	26.7	(4 – 60)

Occasions of service per day seen by impairment group



Occasions of service per day seen by impairment group

Impairment group	Your Service 2021			Your Service 2022			All Ambulatory 2022		
	No.	Mean	Trimmed data range*	No.	Mean	Trimmed data range*	No.	Mean	Trimmed data range*
		OOS per day seen			OOS per day seen			OOS per day seen	
Stroke	41	1.8	(1.0 – 3.8)	38	1.6	(1.0 – 3.0)	1,364	1.9	(1.0 – 3.5)
Brain	8	1.9		7	2.4		142	1.9	(1.0 – 3.0)
Neurological	17	2.2		13	2.1		459	2.2	(1.0 – 3.4)
Spinal cord	1	—		1	—		44	2.2	(1.0 – 3.3)
Amputee	3	—		3	—		64	2.3	(1.4 – 3.0)
Arthritis	5	1.9		3	—		124	2.0	(1.0 – 3.0)
Pain	14	2.1		4	—		167	1.3	(1.0 – 3.0)
Ortho - fractures	19	2.3		7	2.0		325	2.0	(1.0 – 3.0)
Ortho - replacements	65	2.5	(1.0 – 3.0)	71	2.7	(1.0 – 3.0)	2,118	2.6	(1.0 – 3.0)
Ortho - soft tissue injury	0	—		3	—		21	2.1	(1.0 – 3.0)
Ortho - others	6	3.0		9	2.7		272	2.5	(1.0 – 3.0)
Cardiac	3	—		0	—		35	2.2	(1.0 – 3.0)
Pulmonary	3	—		3	—		44	1.5	(1.0 – 3.0)
Burns	0	—		0	—		3	—	
Congenital deformity	0	—		1	—		4	—	
Other disabling imp.	2	—		3	—		45	1.7	(1.0 – 3.3)
Multiple trauma	2	—		1	—		23	2.3	(1.7 – 3.0)
Developmental disability	0	—		0	—		0	—	
Reconditioning	20	2.3	(1.1 – 3.4)	21	2.5	(1.5 – 3.0)	531	2.3	(1.1 – 3.0)
COVID-19 conditions	0	—		0	—		12	1.9	
Missing or excluded	24			20			632		
All episodes	233	2.3	(1.0 – 3.4)	208	2.2	(1.0 – 3.0)	6,417	2.2	(1.0 – 3.0)

Employment outcomes by impairment group



A patient with an 'equivalent employment outcome' is in:

- the same or similar job with same or similar hours
or
- a different job by choice.

A patient with a 'reduced employment outcome' is in:

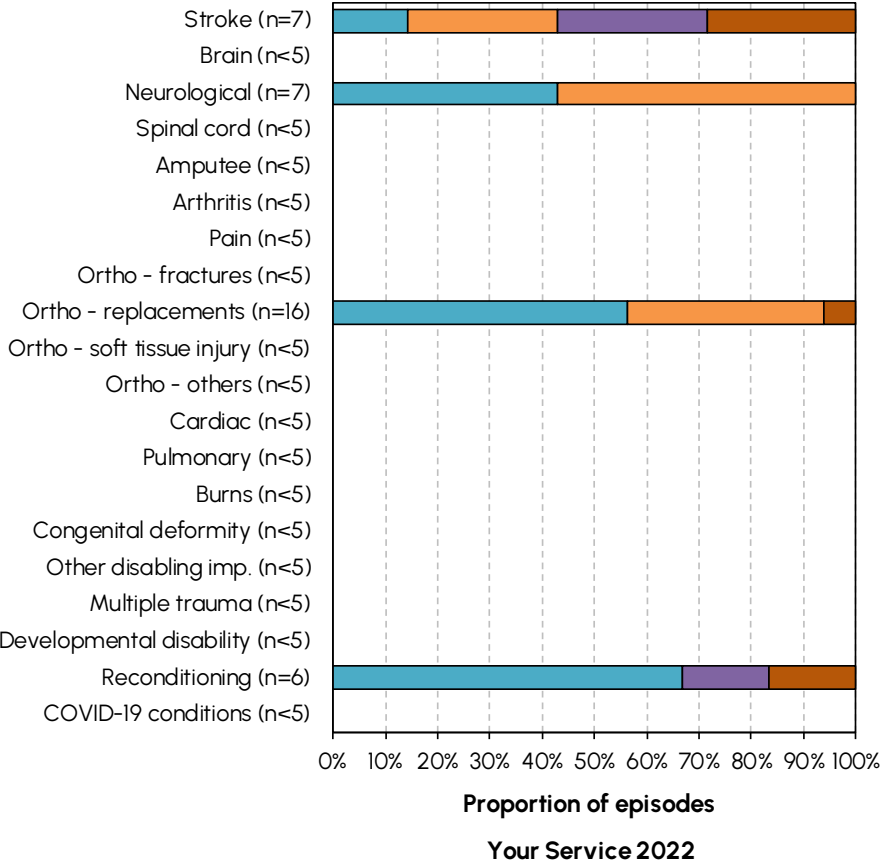
- the same or similar job with reduced hours
or
- a different job due to reduced function
or
- not able to work.

Employment outcomes are only considered for patients who were employed prior to injury / impairment or exacerbation of impairment.

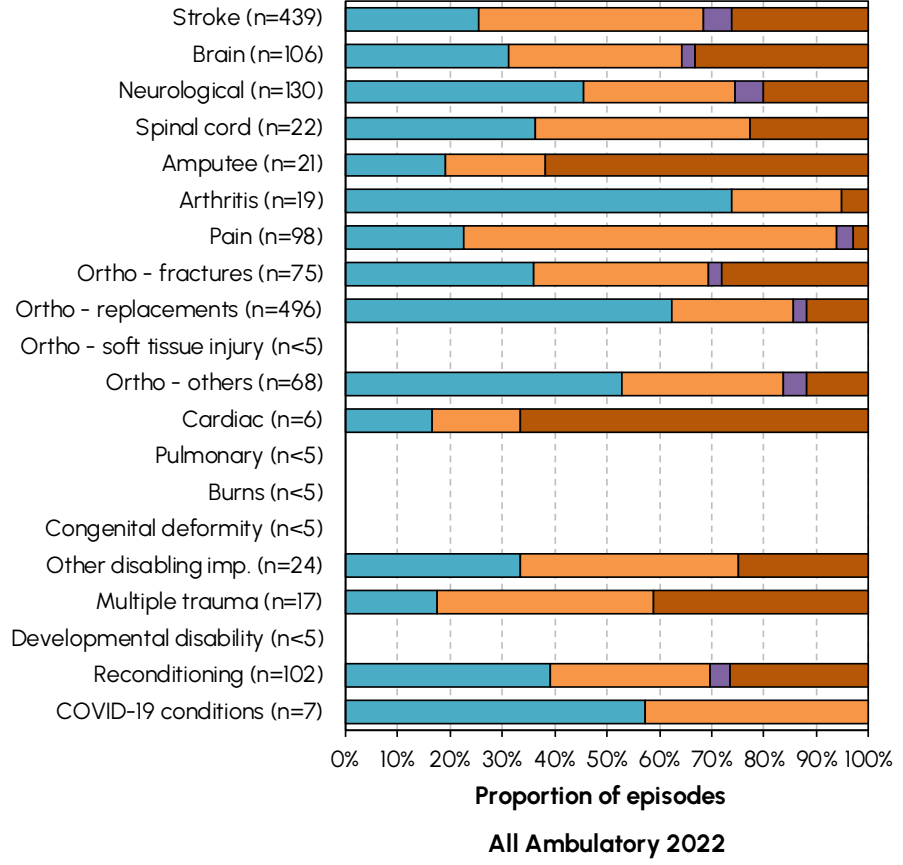
Employment outcomes by impairment group



■ Equivalent employment outcome ■ Reduced employment outcome
■ Chosen to retire ■ Too early to determine



■ Equivalent employment outcome ■ Reduced employment outcome
■ Chosen to retire ■ Too early to determine



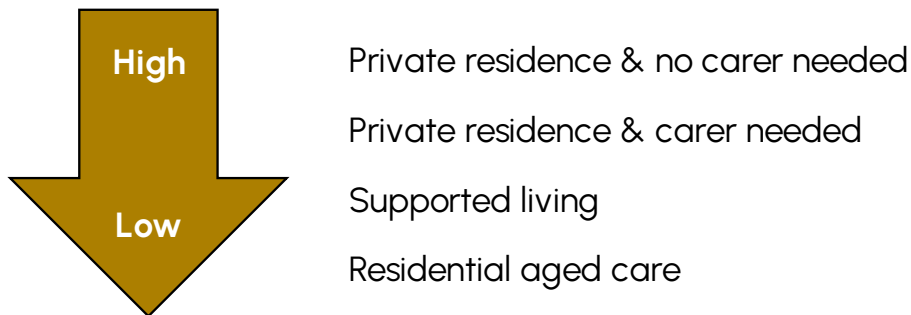
Employment outcomes by impairment group

Impairment group	Your Service 2021		Your Service 2022		All Ambulatory 2022	
	Employed prior to impair (No.)	Equivalent employment outcome (%)	Employed prior to impair (No.)	Equivalent employment outcome (%)	Employed prior to impair (No.)	Equivalent employment outcome (%)
Stroke	11	36.4	7	14.3	439	25.5
Brain	8	62.5	2	50.0	106	31.1
Neurological	7	28.6	7	42.9	130	45.4
Spinal cord	1	100.0	1	0.0	22	36.4
Amputee	0	—	0	—	21	19.0
Arthritis	0	—	1	100.0	19	73.7
Pain	8	25.0	2	0.0	98	22.4
Ortho - fractures	3	33.3	2	50.0	75	36.0
Ortho - replacements	18	77.8	16	56.3	496	62.3
Ortho - soft tissue injury	0	—	0	—	4	—
Ortho - others	2	0.0	4	50.0	68	52.9
Cardiac	2	50.0	0	—	6	16.7
Pulmonary	0	—	0	—	2	—
Burns	0	—	0	—	1	—
Congenital deformity	0	—	0	—	3	—
Other disabling imp.	0	—	2	50.0	24	33.3
Multiple trauma	1	0.0	1	0.0	17	17.6
Developmental disability	0	—	0	—	0	—
Reconditioning	3	0.0	6	66.7	102	39.2
COVID-19 conditions	0	—	0	—	7	57.1
Missing or excluded	169		157		4,784	
All episodes	233	46.9	208	45.1	6,417	41.7

Independence outcomes by impairment group

Independence outcomes are based on changes in accommodation and carer status.

Independence is ranked using the following order:



A patient is defined as having 'equivalent independence' when:

- independence after the rehabilitation episode was the same or greater than prior to rehabilitation.

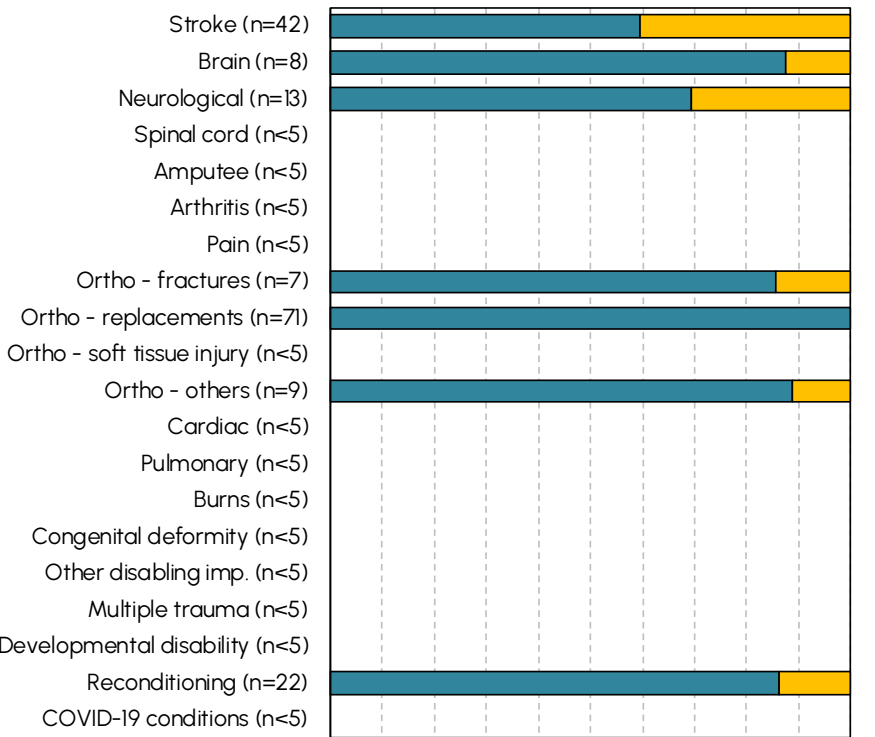
A patient is defined as having 'reduced independence' when:

- independence after the rehabilitation episode was less than before rehabilitation.

Independence outcomes by impairment group



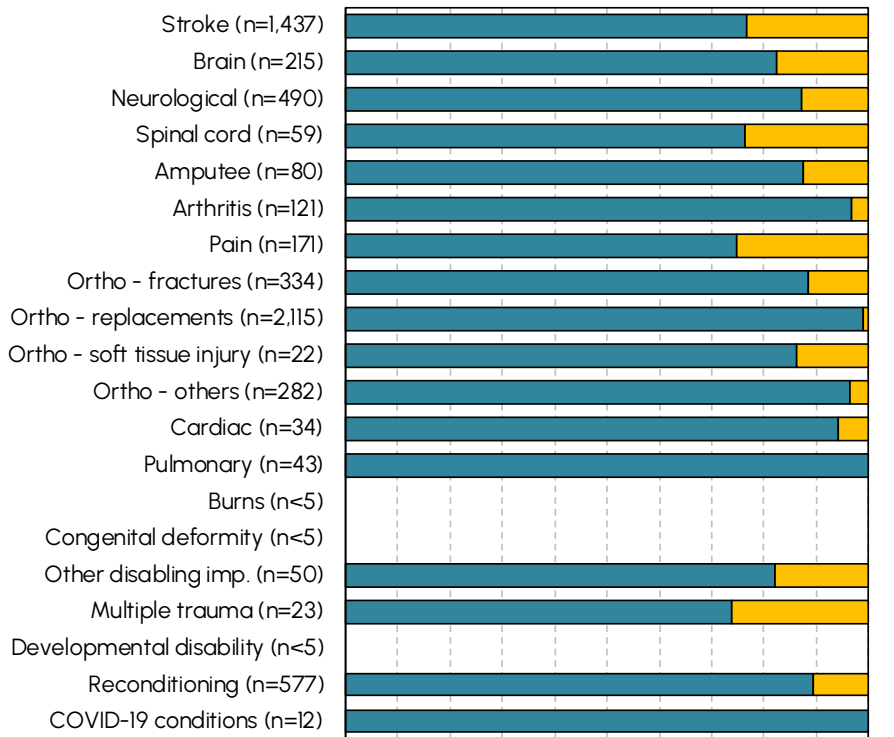
■ Equivalent independence ■ Reduced independence



Proportion of episodes

Your Service 2022

■ Equivalent independence ■ Reduced independence



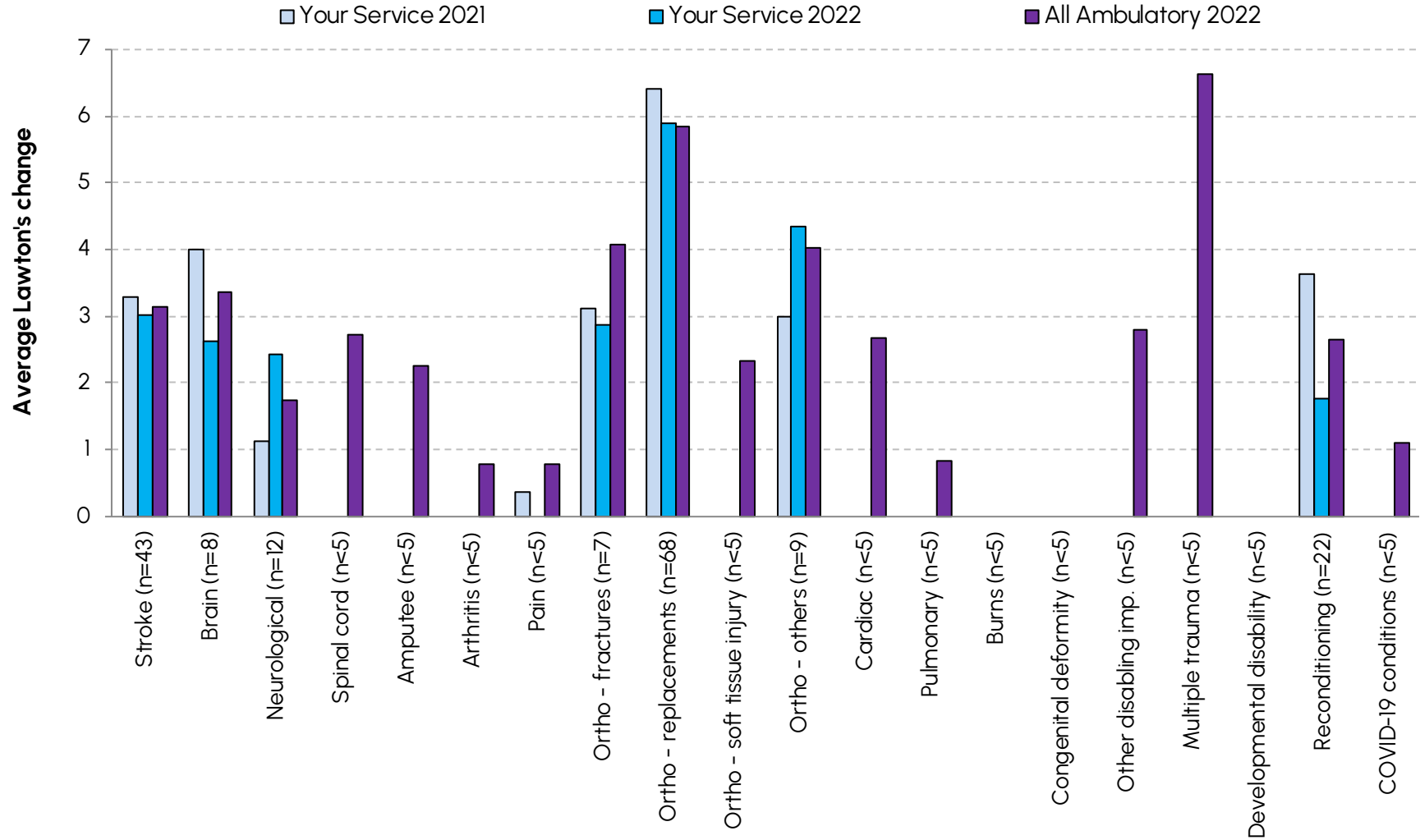
Proportion of episodes

All Ambulatory 2022

Independence outcomes by impairment group

Impairment group	Your Service 2021		Your Service 2022		All Ambulatory 2022	
	No.	Equivalent independence outcome (%)	No.	Equivalent independence outcome (%)	No.	Equivalent independence outcome (%)
Stroke	41	65.9	42	59.5	1,437	76.8
Brain	10	90.0	8	87.5	215	82.3
Neurological	18	61.1	13	69.2	490	87.3
Spinal cord	2	50.0	4	100.0	59	76.3
Amputee	4	100.0	4	75.0	80	87.5
Arthritis	5	100.0	3	100.0	121	96.7
Pain	12	58.3	4	75.0	171	74.9
Ortho - fractures	19	73.7	7	85.7	334	88.6
Ortho - replacements	65	98.5	71	100.0	2,115	98.9
Ortho - soft tissue injury	0	—	3	66.7	22	86.4
Ortho - others	7	85.7	9	88.9	282	96.5
Cardiac	3	100.0	0	—	34	94.1
Pulmonary	3	100.0	3	100.0	43	100.0
Burns	0	—	0	—	3	—
Congenital deformity	0	—	1	100.0	4	—
Other disabling imp.	2	50.0	4	100.0	50	82.0
Multiple trauma	2	50.0	1	0.0	23	73.9
Developmental disability	0	—	0	—	0	—
Reconditioning	21	85.7	22	86.4	577	89.4
COVID-19 conditions	0	—	0	—	12	100.0
Missing or excluded	19		9		357	
All episodes	233	81.3	208	84.4	6,417	89.1

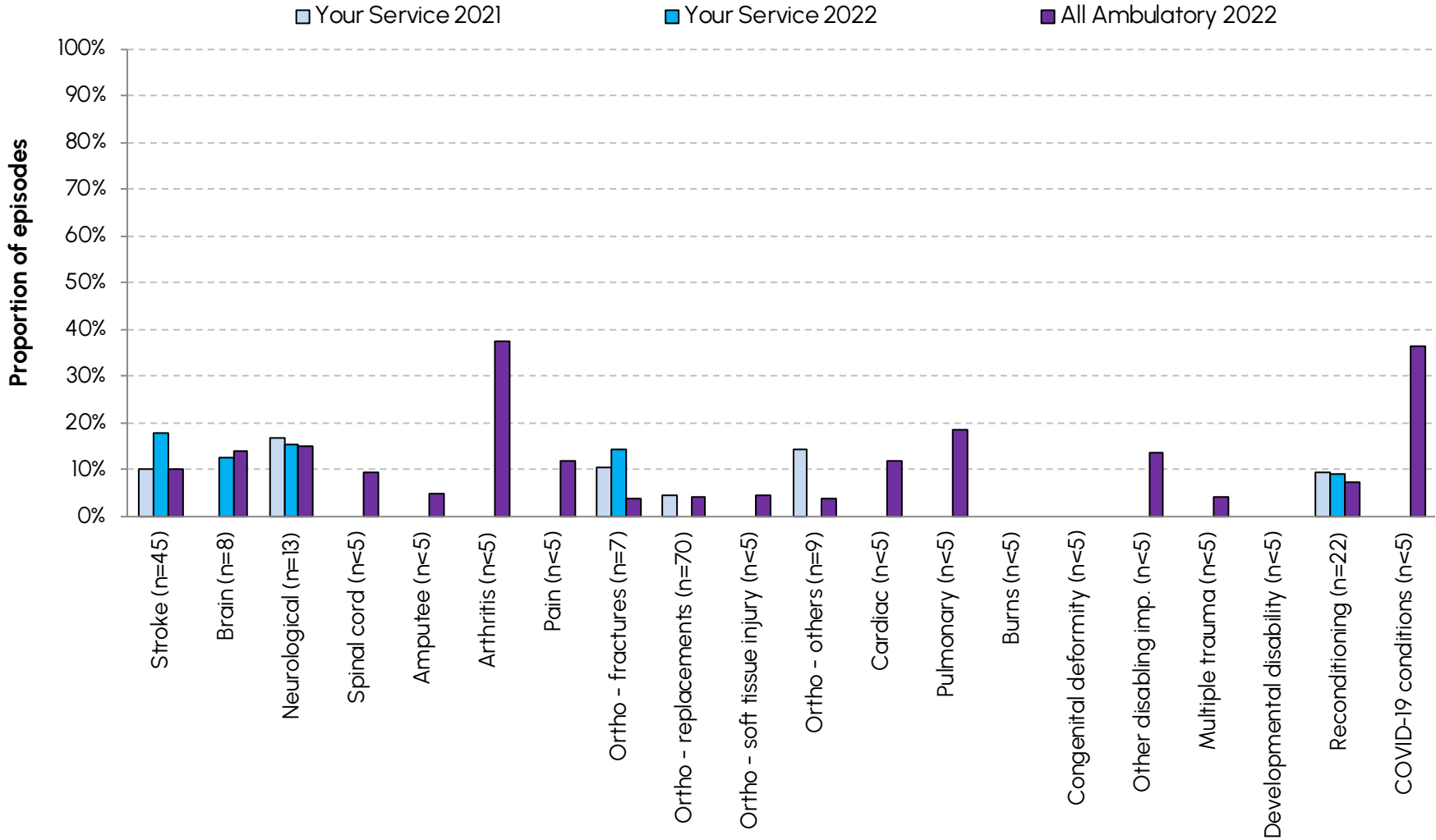
Lawton's score change by impairment



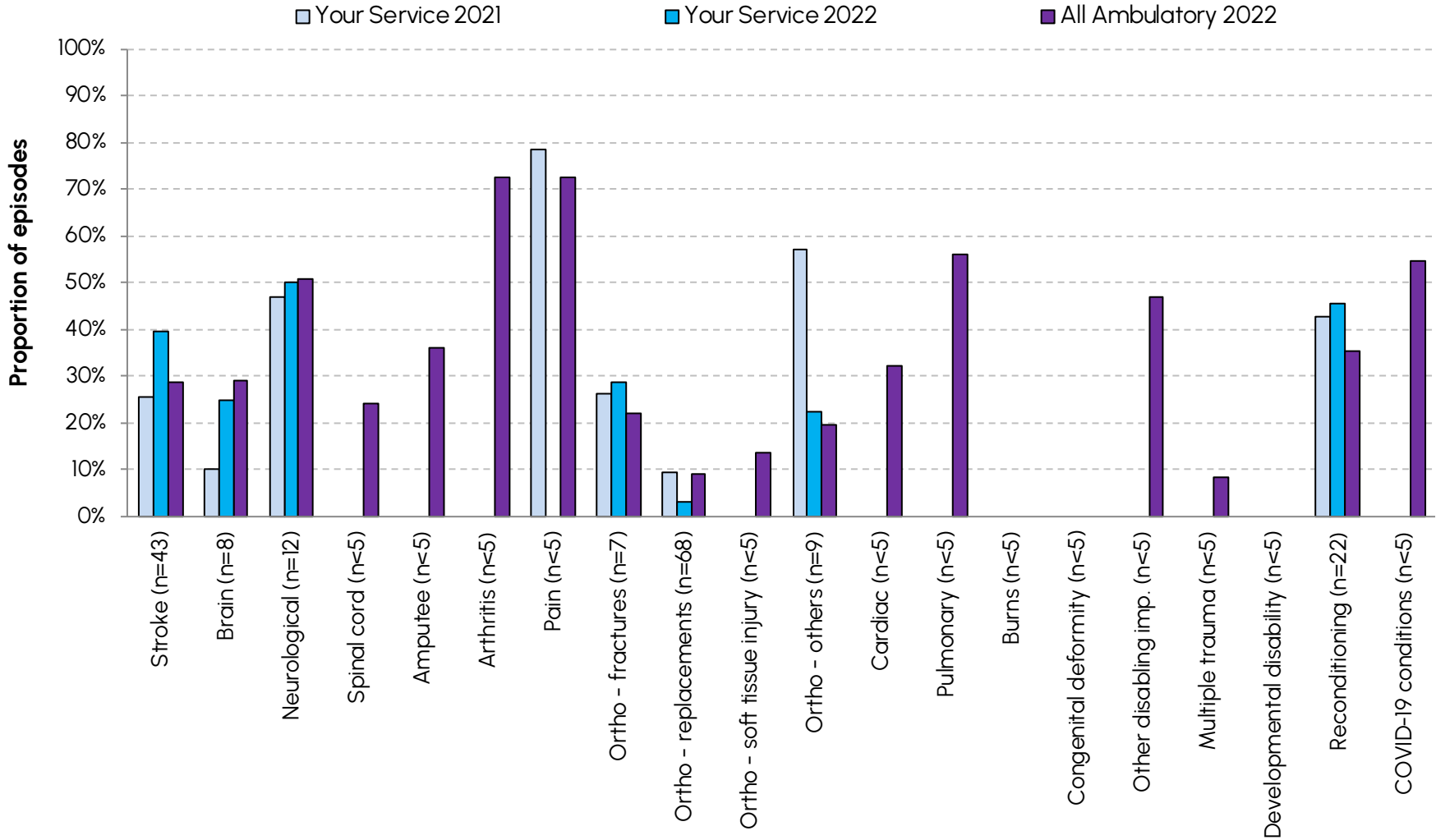
Lawton's score change by impairment

Impairment group	Your Service 2021		Your Service 2022		All Ambulatory 2022	
	No.	Avg. Lawton's change	No.	Avg. Lawton's change	No.	Avg. Lawton's change
Stroke	39	3.3	43	3.0	1,388	3.1
Brain	10	4.0	8	2.6	204	3.4
Neurological	17	1.1	12	2.4	458	1.7
Spinal cord	1	8.0	4	4.3	62	2.7
Amputee	4	0.3	4	2.5	83	2.3
Arthritis	2	0.5	2	0.0	98	0.8
Pain	14	0.4	3	0.0	153	0.8
Ortho - fractures	19	3.1	7	2.9	325	4.1
Ortho - replacements	65	6.4	68	5.9	2,084	5.9
Ortho - soft tissue injury	0	—	3	3.0	22	2.3
Ortho - others	7	3.0	9	4.3	278	4.0
Cardiac	3	1.7	0	—	31	2.7
Pulmonary	3	1.7	1	3.0	25	0.8
Burns	0	—	0	—	1	—
Congenital deformity	0	—	1	4.0	4	—
Other disabling imp.	2	0.0	3	0.3	49	2.8
Multiple trauma	2	4.0	1	7.0	24	6.6
Developmental disability	0	—	0	—	0	—
Reconditioning	21	3.6	22	1.8	554	2.7
COVID-19 conditions	0	—	0	—	11	1.1
Missing or excluded	24		17		574	
All episodes	233	3.8	208	3.8	6,417	3.9

Episodes with a Lawton's start score of 30 by impairment group



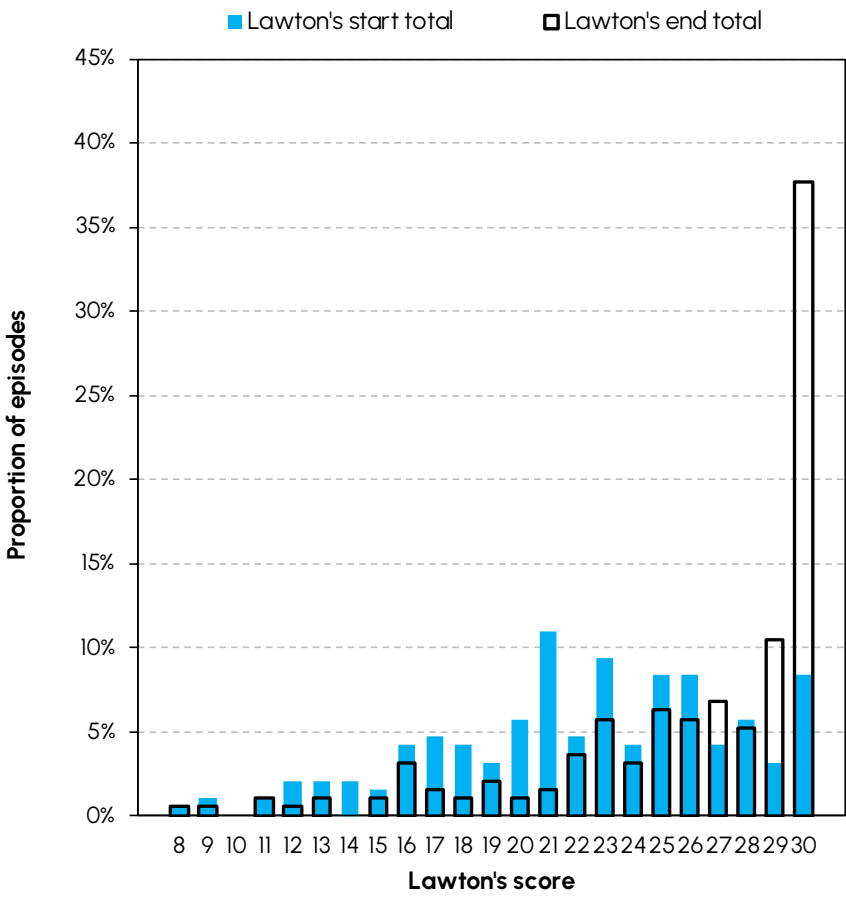
Episodes with no change in Lawton's score by impairment group



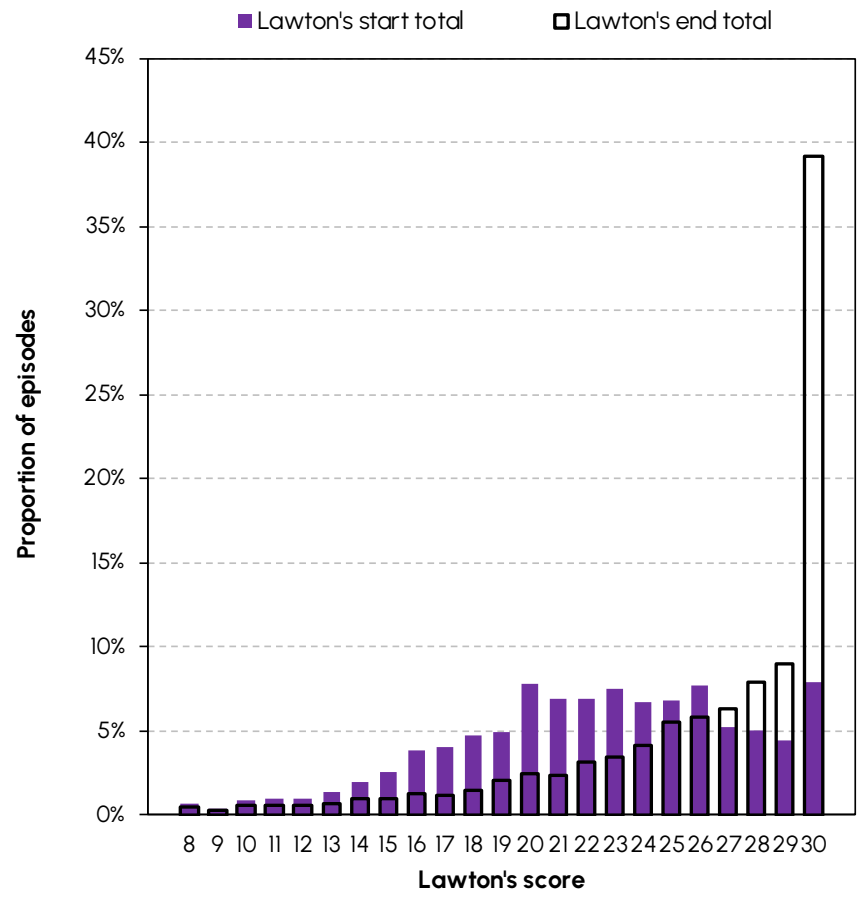
Lawton's start and end total – all episodes



Your Service 2022 (n=191)



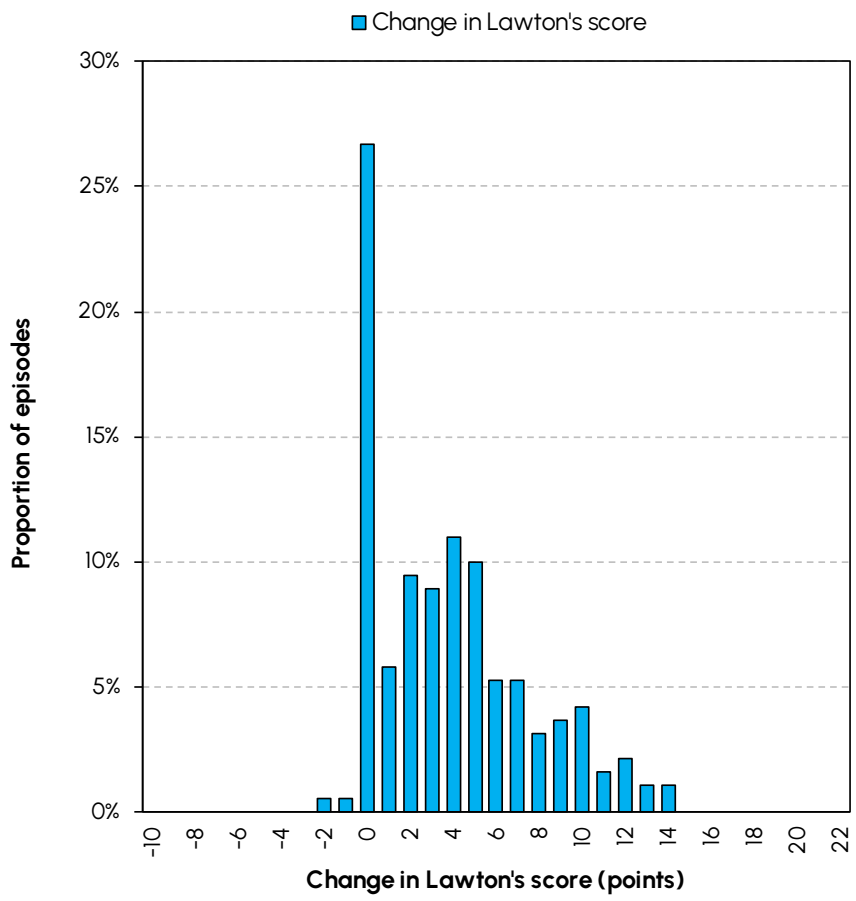
All Ambulatory 2022 (n=5,864)



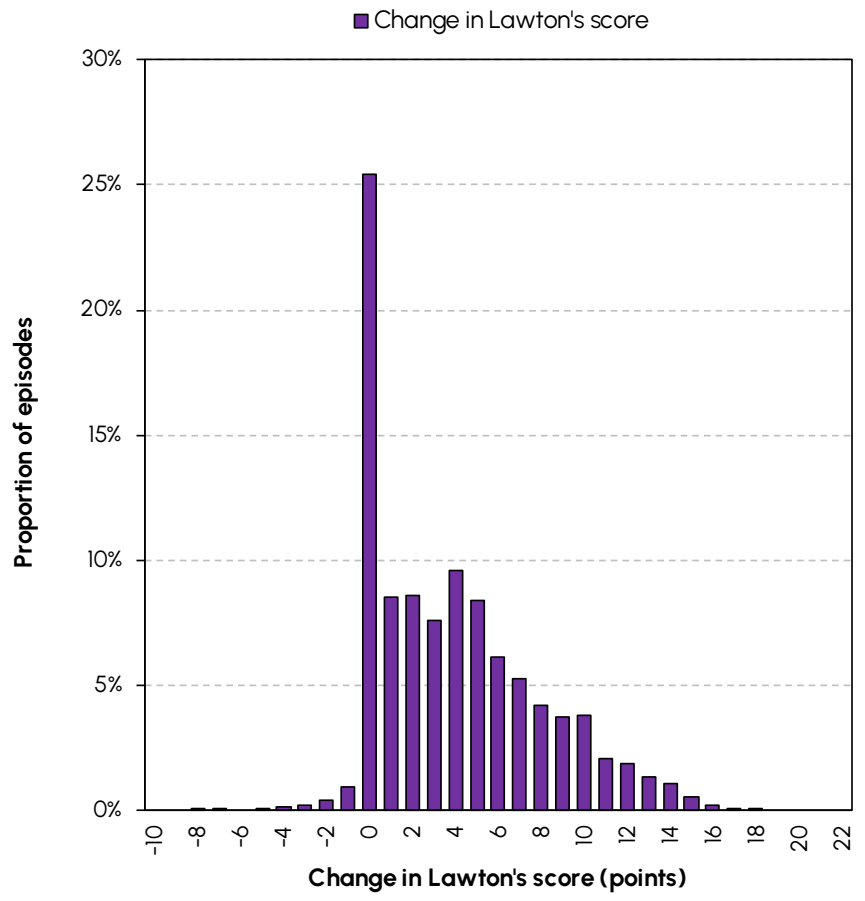
Change in Lawton's score – all episodes



Your Service 2022 (n=191)



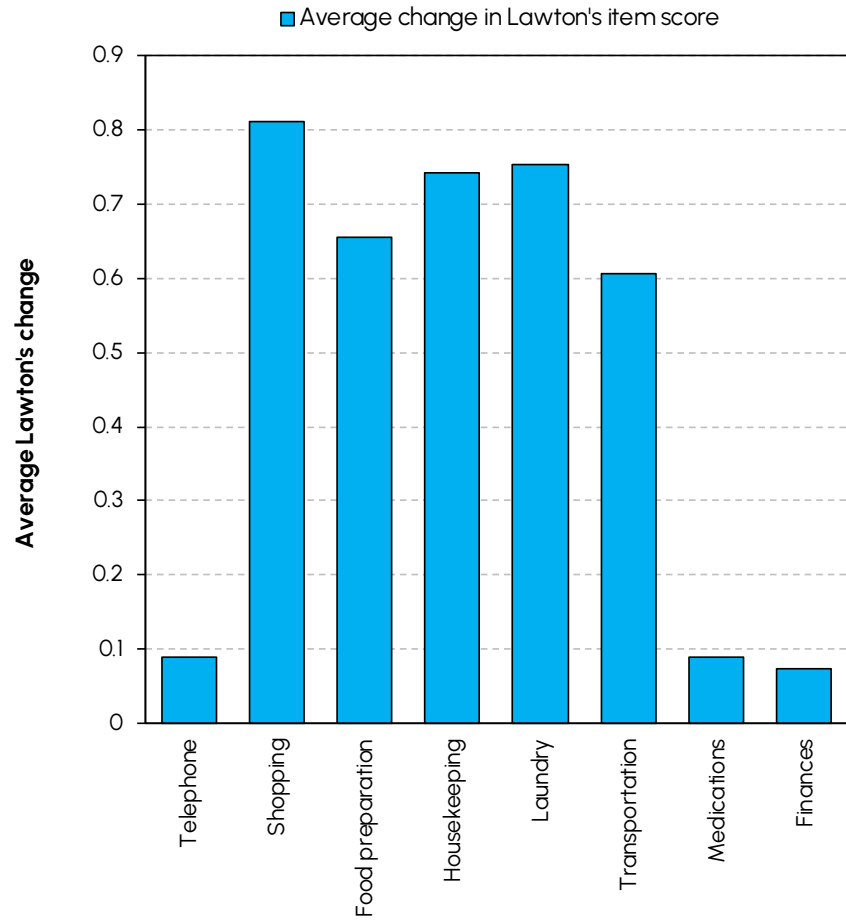
All Ambulatory 2022 (n=5,864)



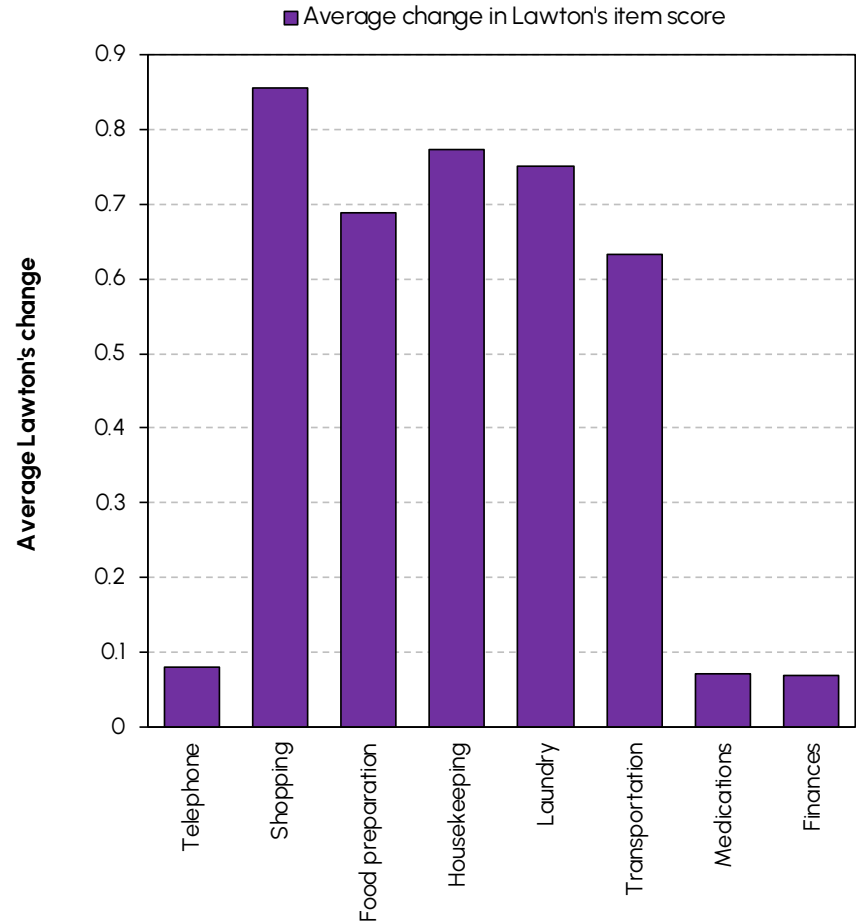
Change in Lawton's item scores – all episodes



Your Service 2022 (n=191)

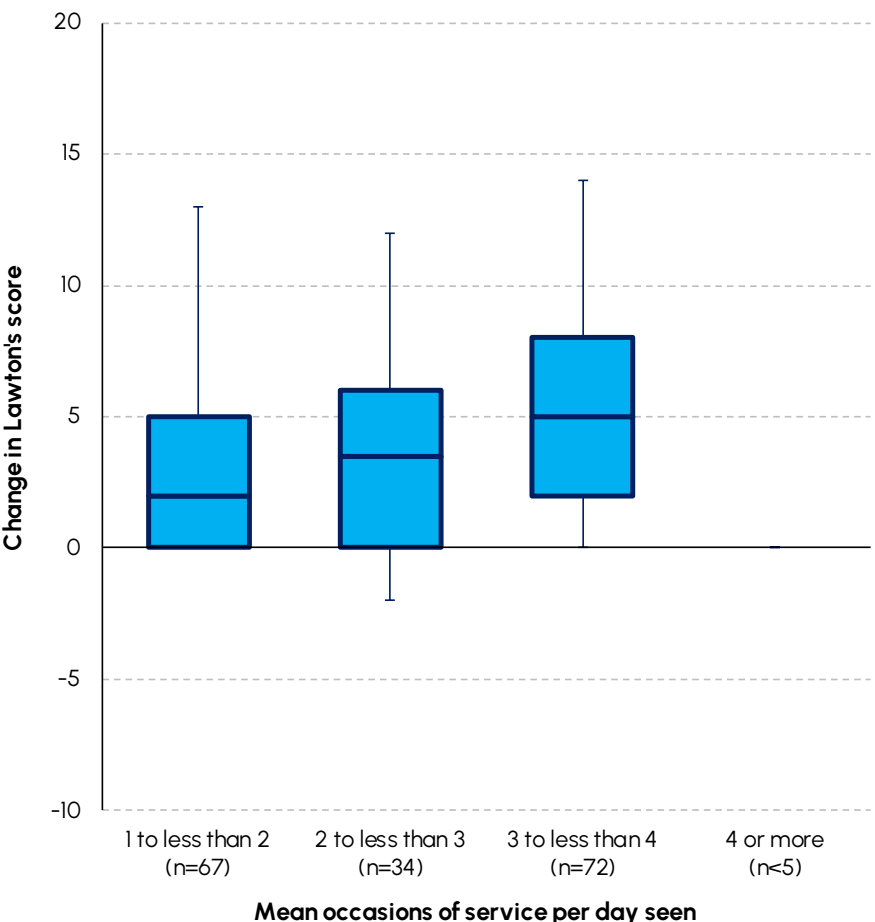


All Ambulatory 2022 (n=5,864)

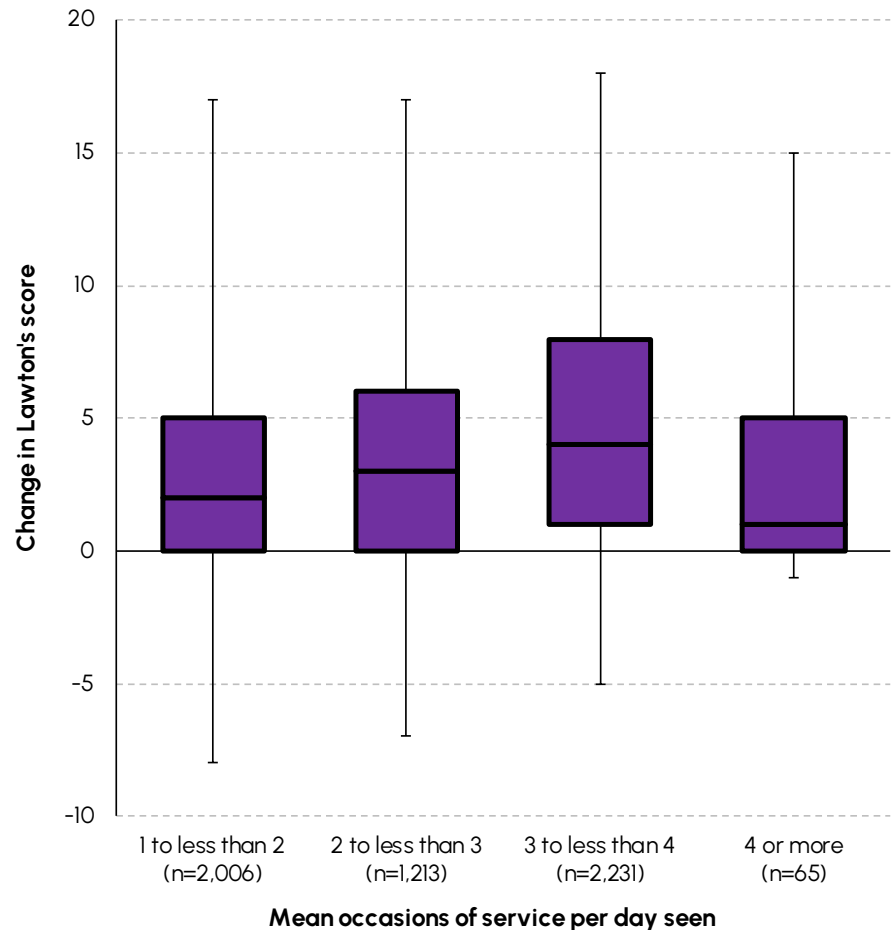


Change in Lawton's score by OOS/day seen – all episodes

Your Service 2022



All Ambulatory 2022

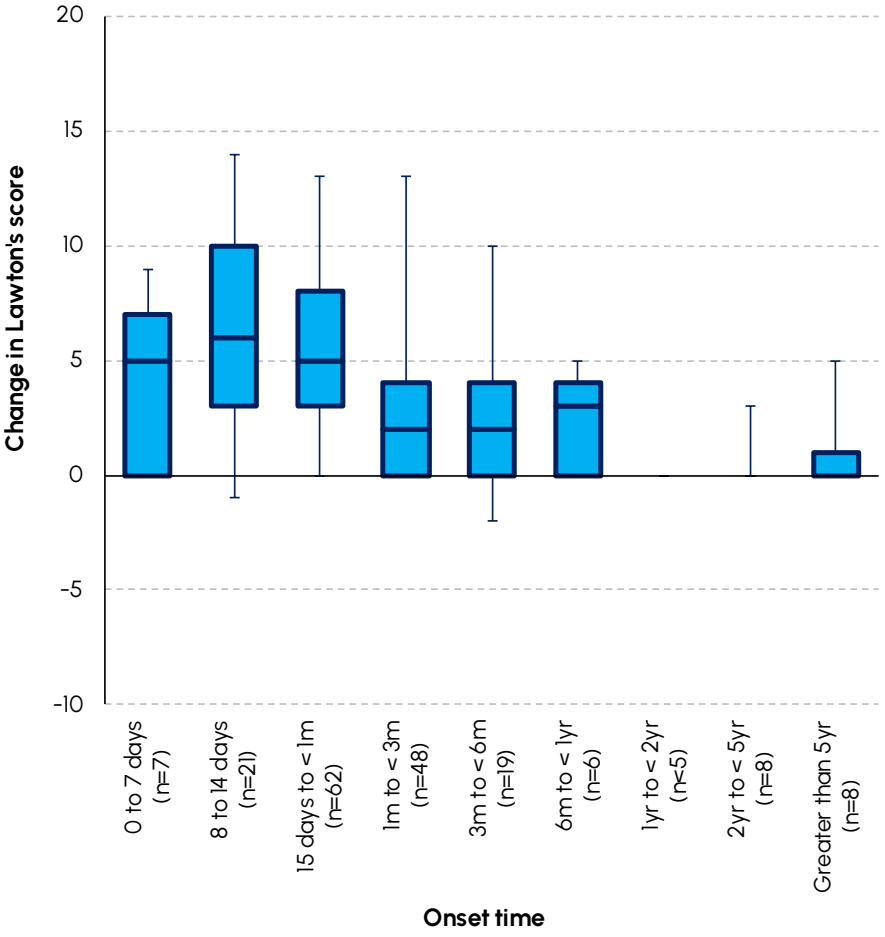


NOTE: To understand how to interpret these figures please refer to Appendix 3

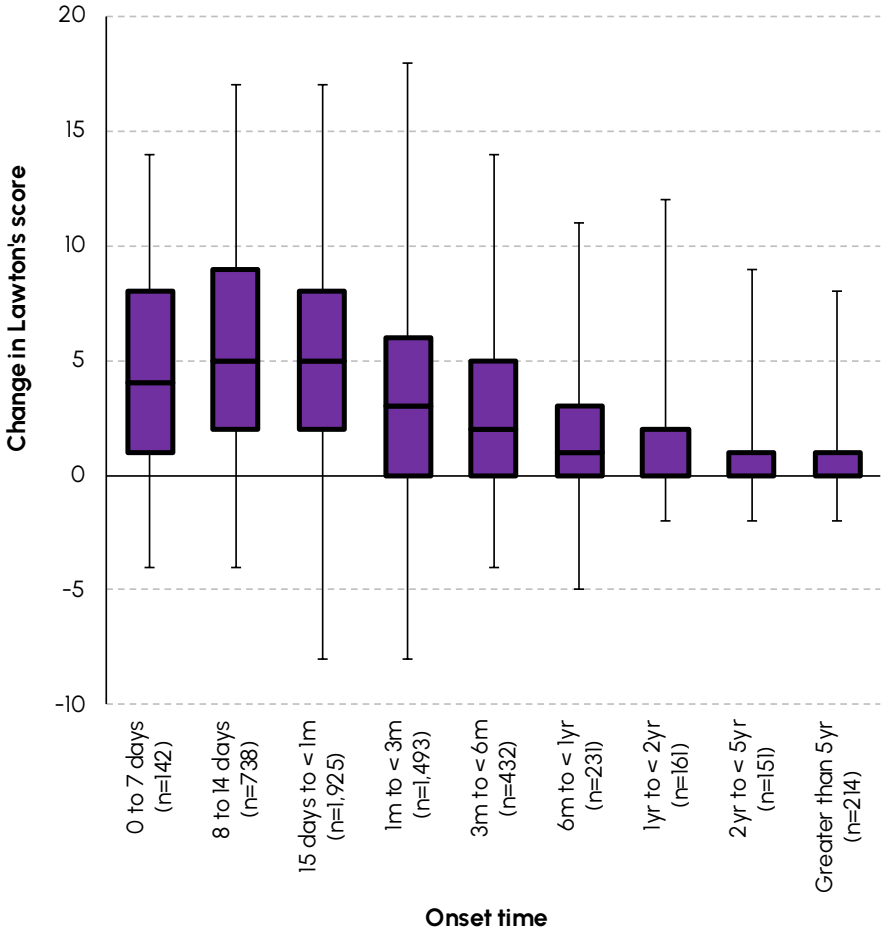
Change in Lawton's score by onset time – all episodes



Your Service 2022



All Ambulatory 2022



NOTE: To understand how to interpret these figures please refer to Appendix 3

Impairment Specific Outcomes Measures



No single outcome measure can provide comprehensive outcome information across the range of impairments treated in ambulatory settings. For this reason, in addition to the Australian Modified Lawton's IADL Scale which is used for every episode, a number of impairment specific measures are included in the AROC Ambulatory Dataset V4.1. This dataset was implemented in August 2017, following widespread clinical consultation.

The following section provides information about these measures, as relevant to your facility's patient population:

- Upper Limb Motor Assessment Scale (UL-MAS)
- Timed 10 Metre Walk Test
- Mayo-Portland Adaptability Inventory-4 (MPAI-4)
- De Morton Mobility Index (DEMMI)
- Timed Up and Go

Upper Limb Motor Assessment Scale (UL-MAS)



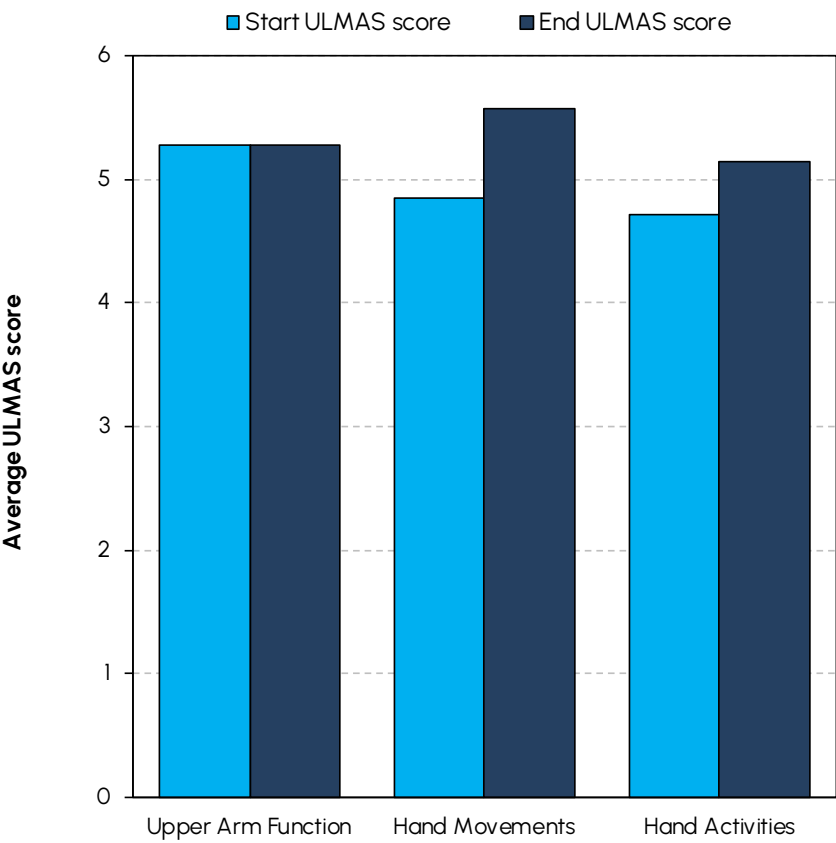
- This data item is collected in addition to the Australian Modified Lawton's IADL Scale for patients who have sustained upper limb impairment following a stroke.
- The UL-MAS is used to assess everyday upper limb motor function in adults following stroke.

For further information refer to the AROC Ambulatory Data Dictionary V4.1 for Clinicians.

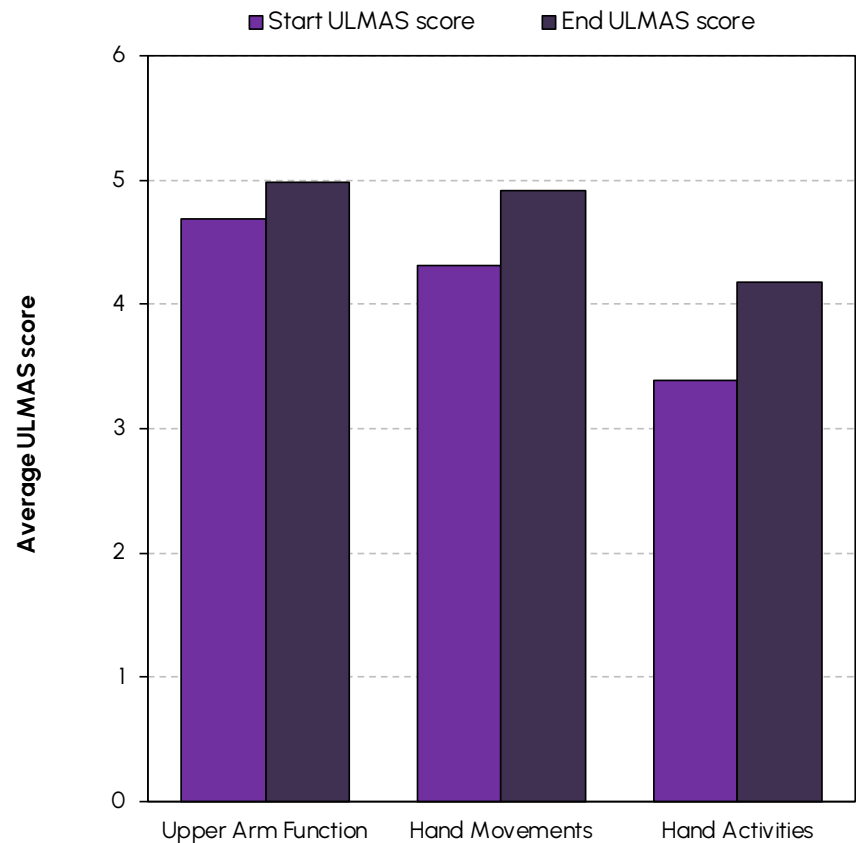
Average ULMAS start and end score by sub-group



Your Service 2022 (n=7)

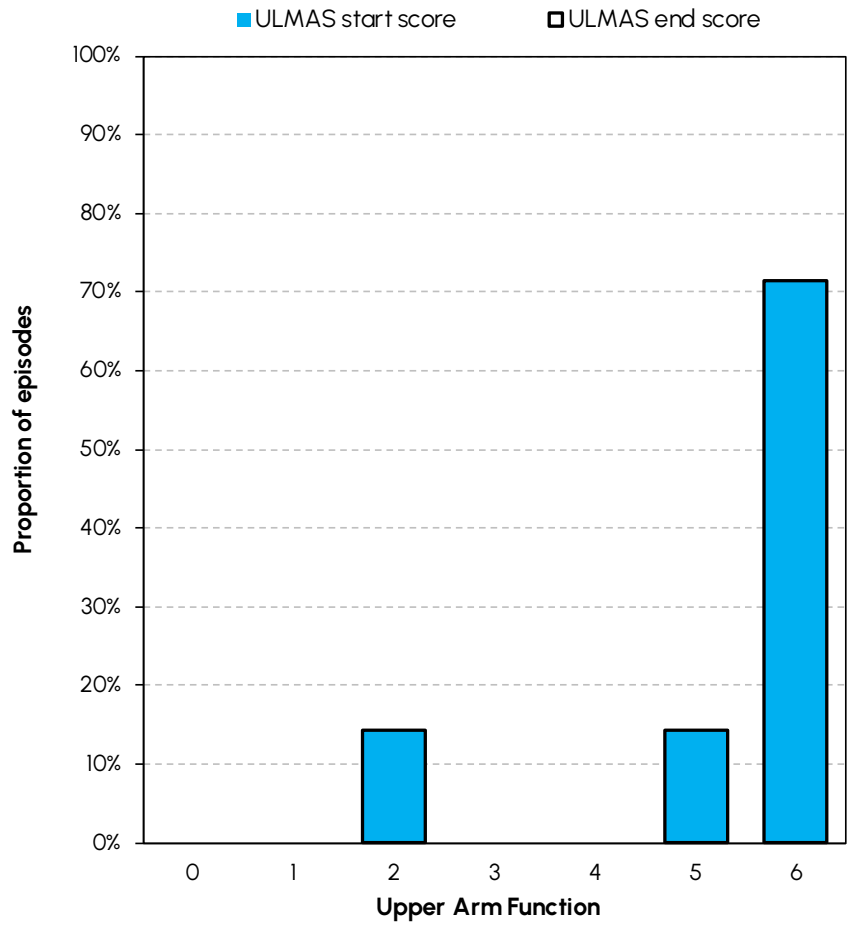


All Ambulatory 2022 (n=264)

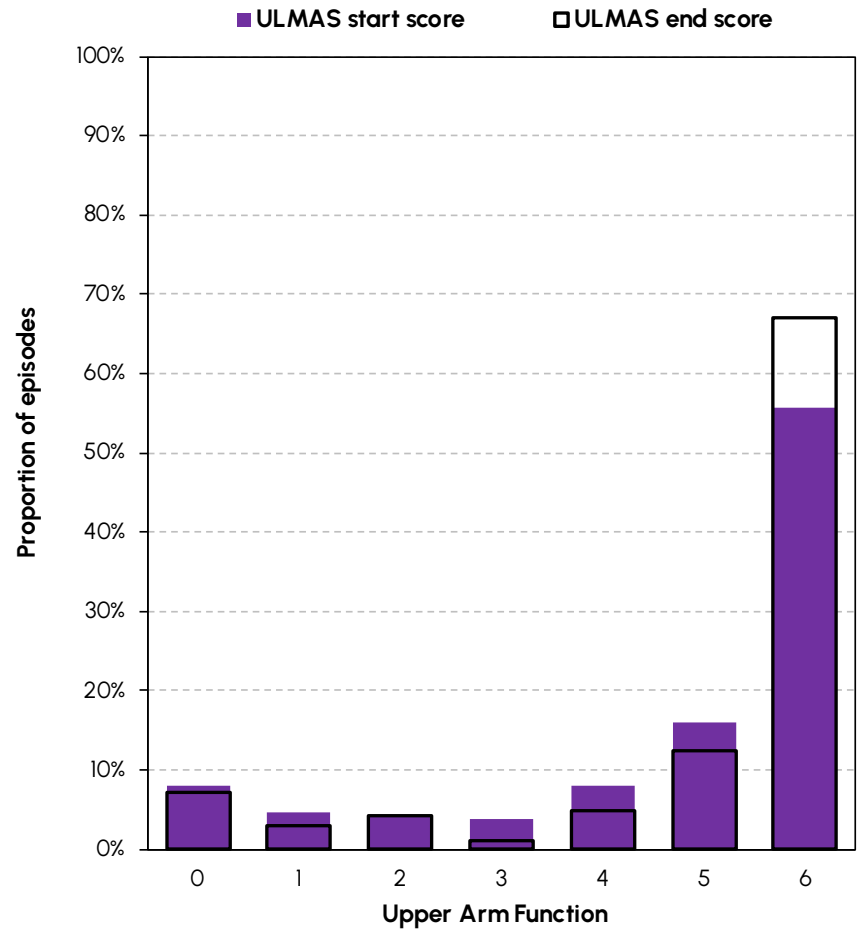


ULMAS start and end total – Upper arm function

Your Service 2022 (n=7)

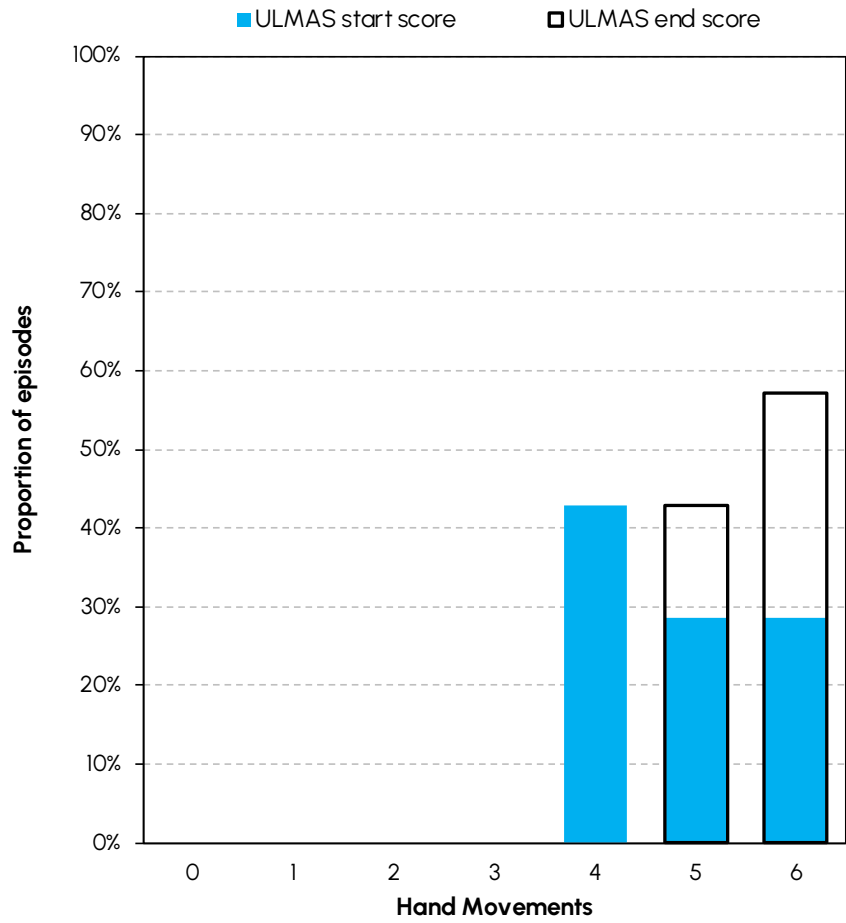


All Ambulatory 2022 (n=264)

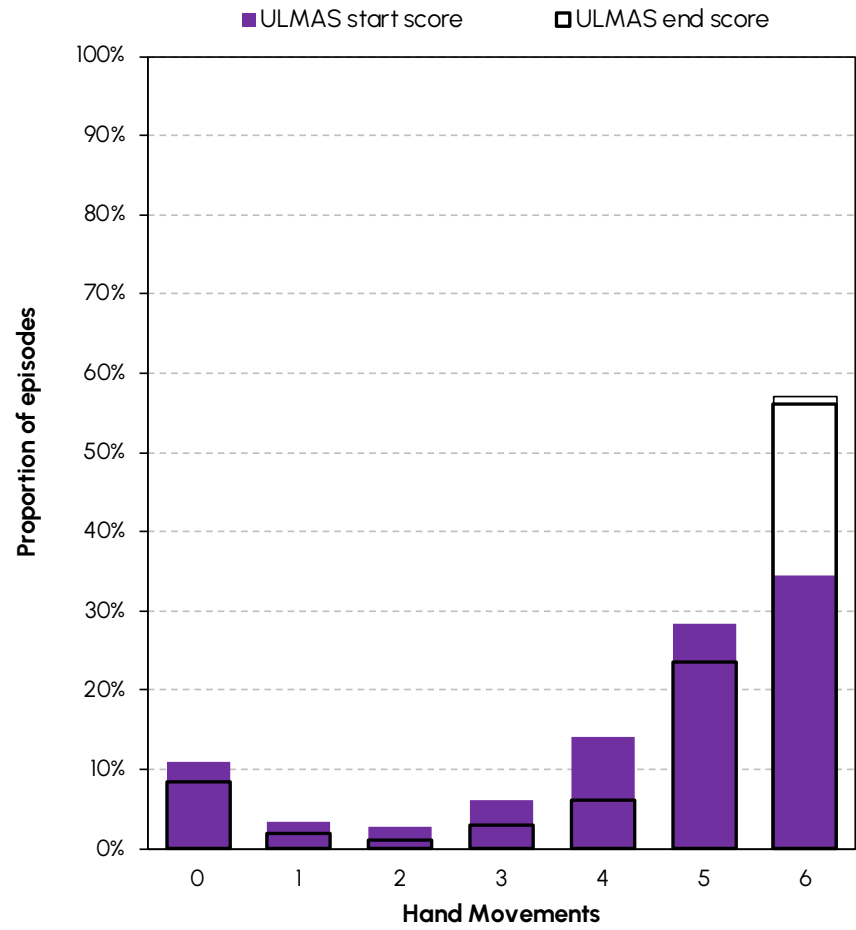


ULMAS start and end total – Hand movements

Your Service 2022 (n=7)

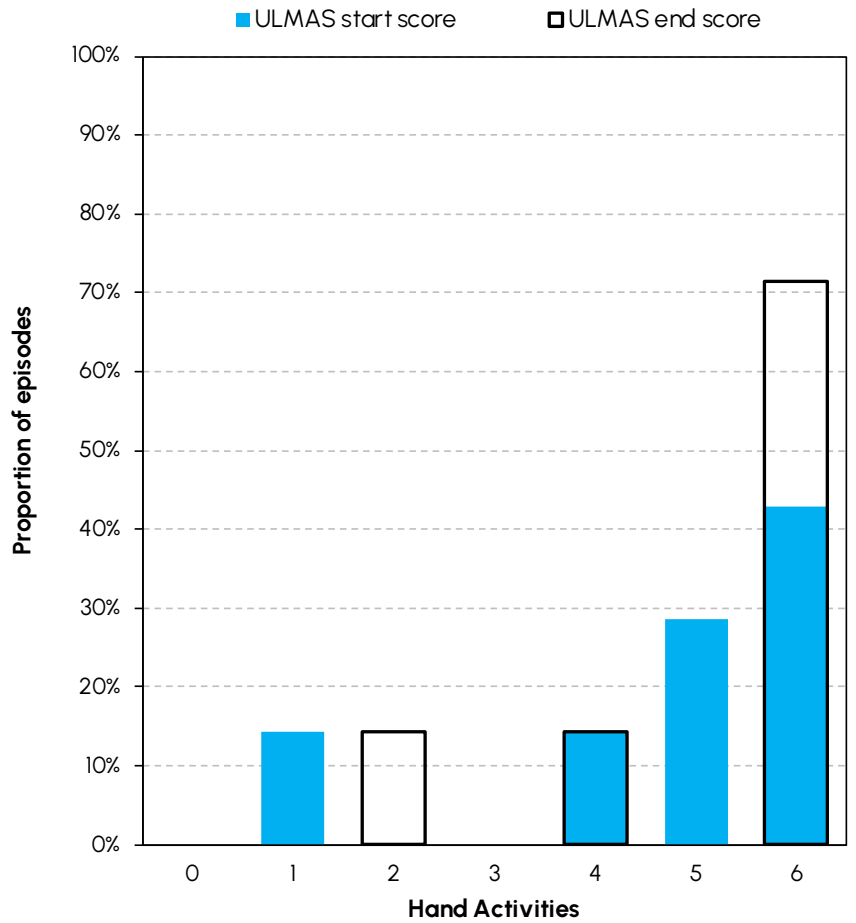


All Ambulatory 2022 (n=264)

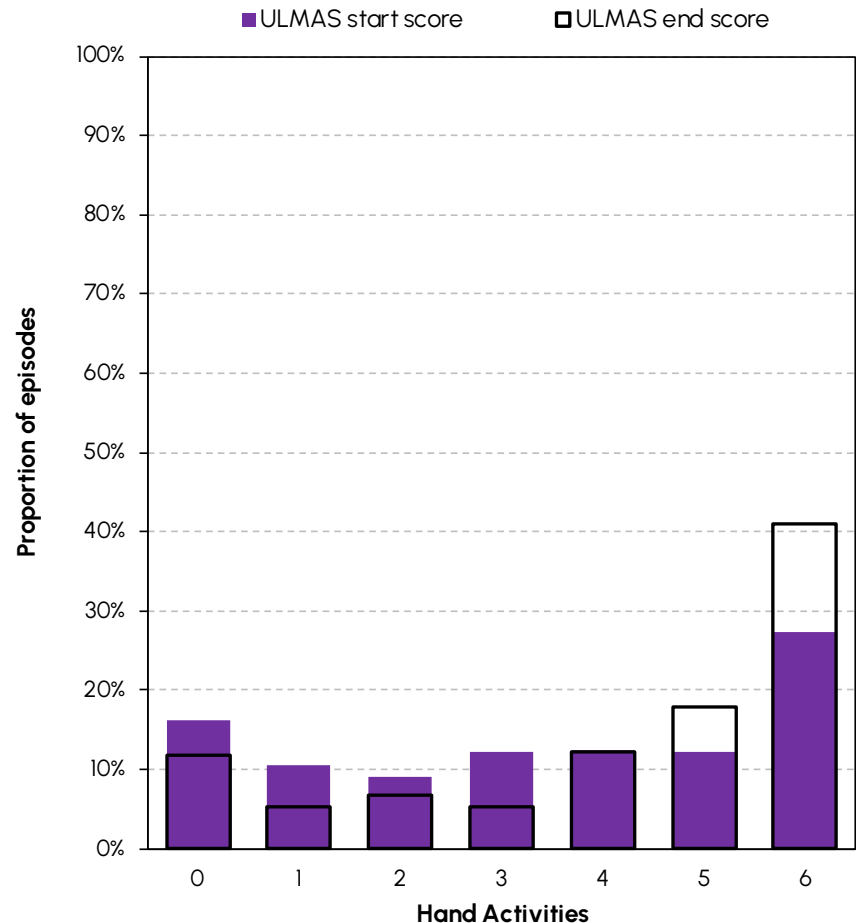


ULMAS start and end total – Hand activities

Your Service 2022 (n=7)

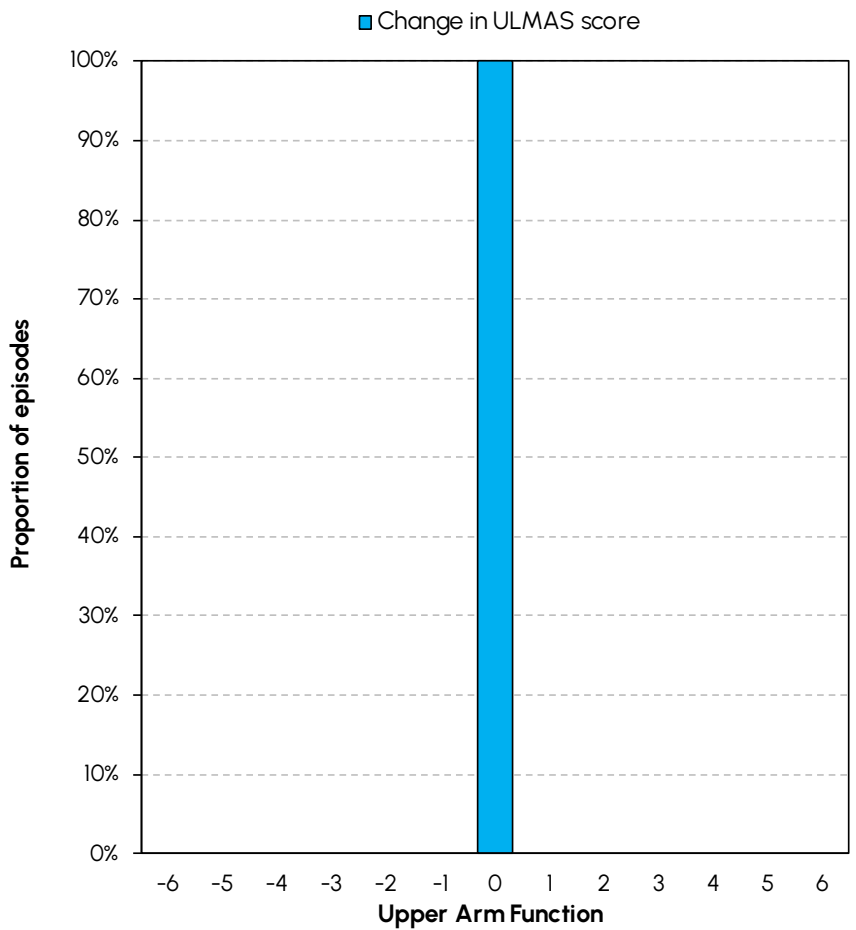


All Ambulatory 2022 (n=264)

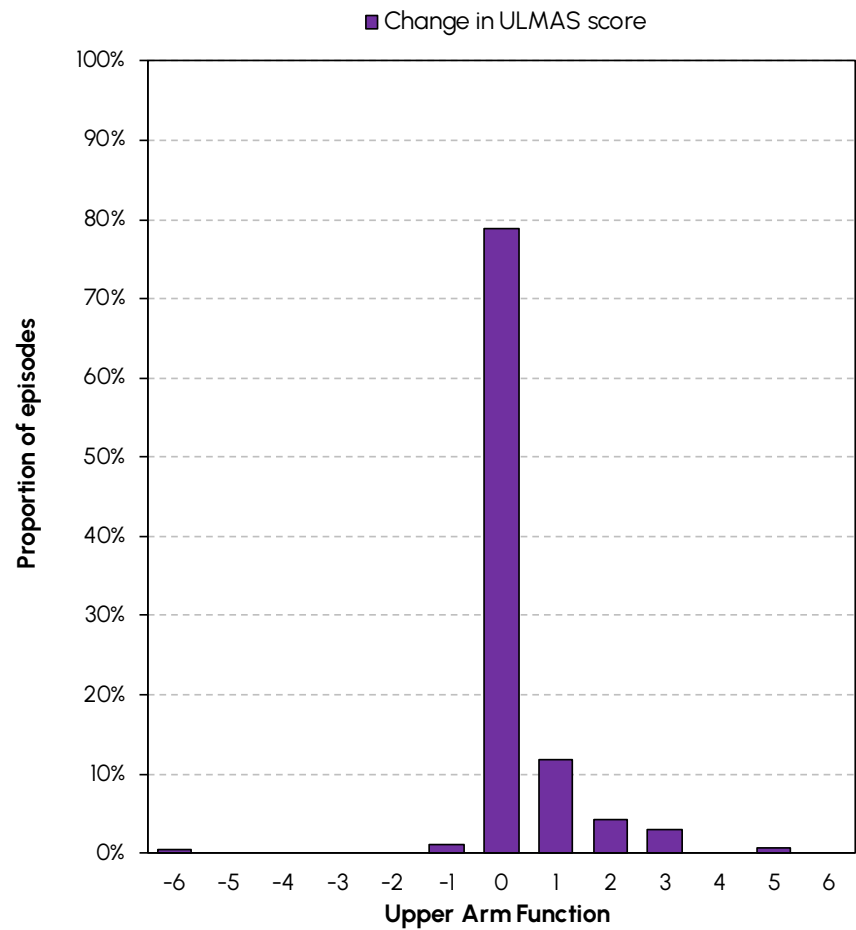


Change in ULMAS score – Upper arm function

Your Service 2022 (n=7)



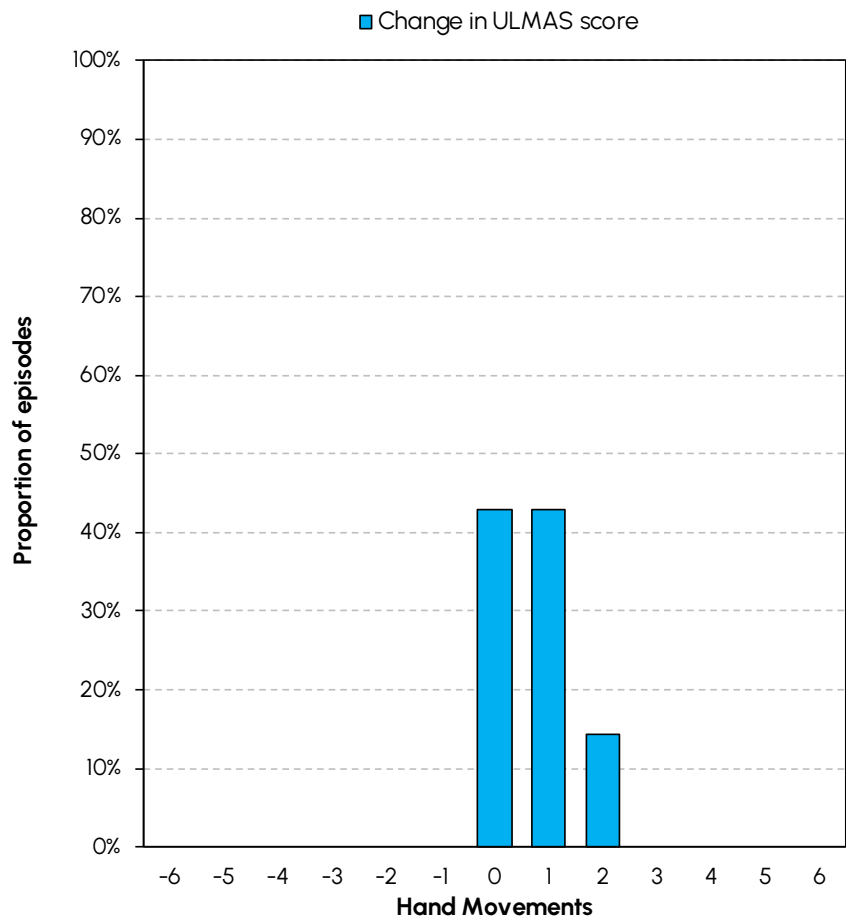
All Ambulatory 2022 (n=264)



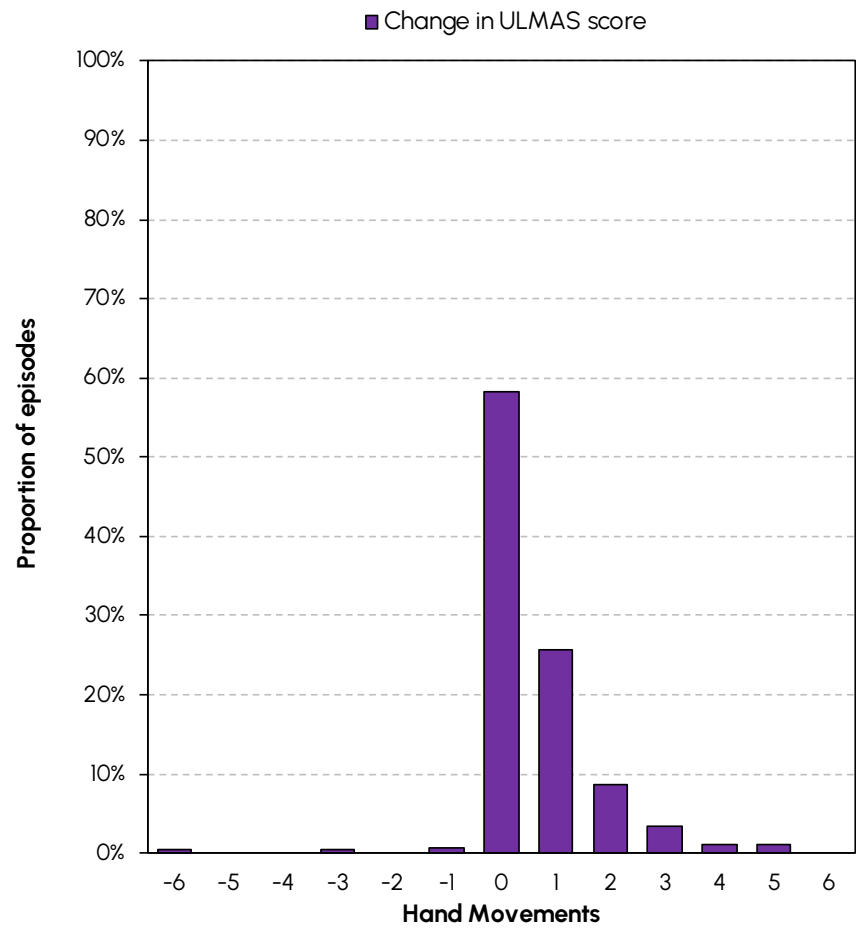
Change in ULMAS score – Hand movements



Your Service 2022 (n=7)



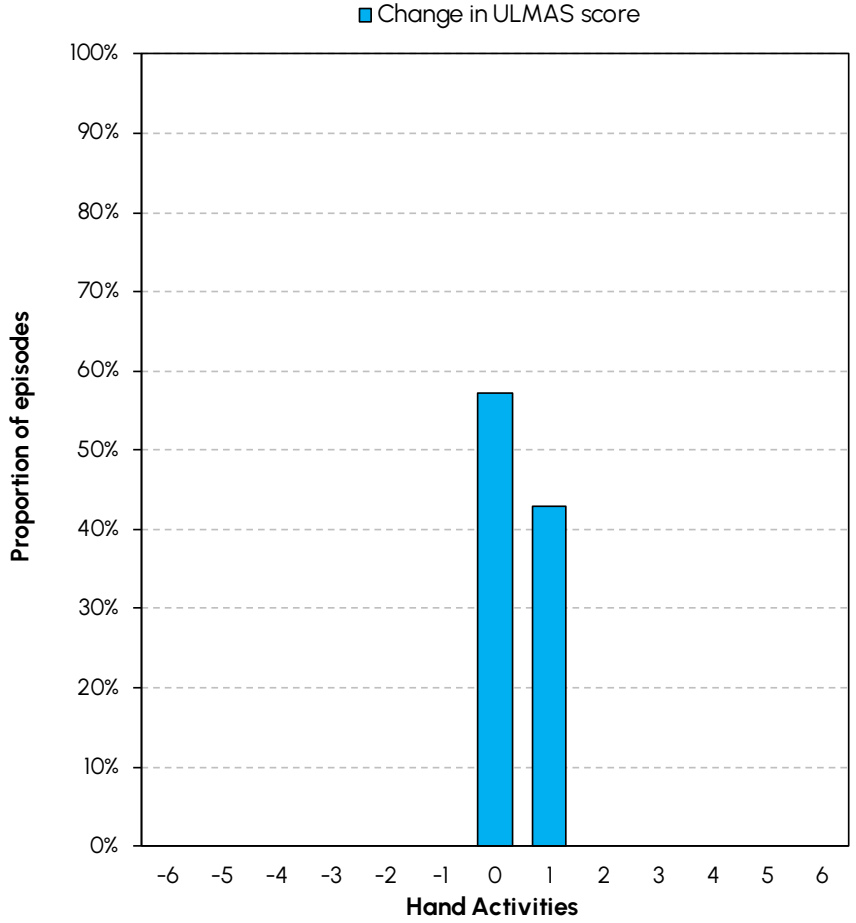
All Ambulatory 2022 (n=264)



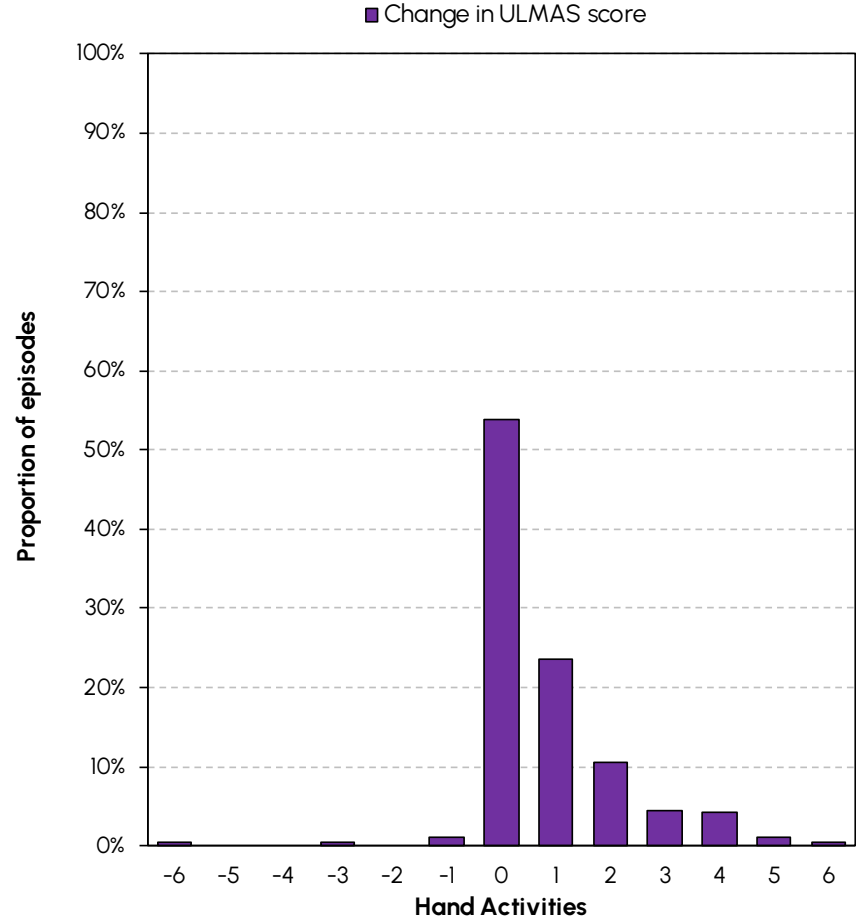
Change in ULMAS score – Hand activities



Your Service 2022 (n=7)

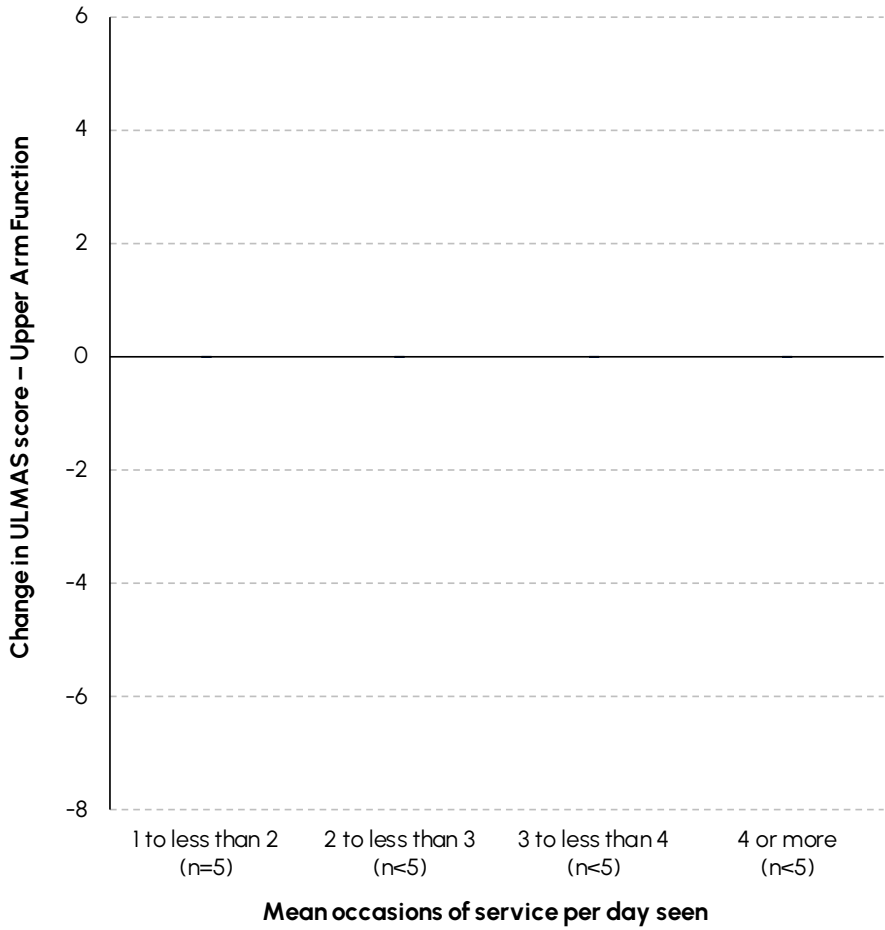


All Ambulatory 2022 (n=264)

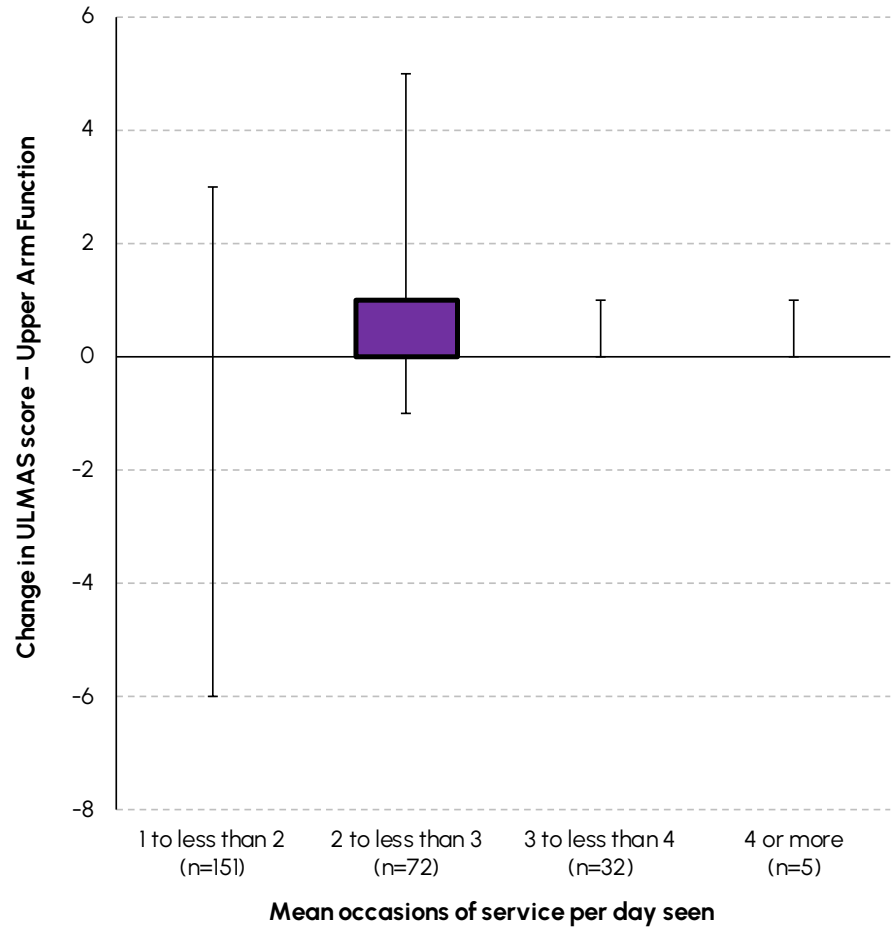


Change in ULMAS score by OOS/day seen – Upper arm function

Your Service 2022



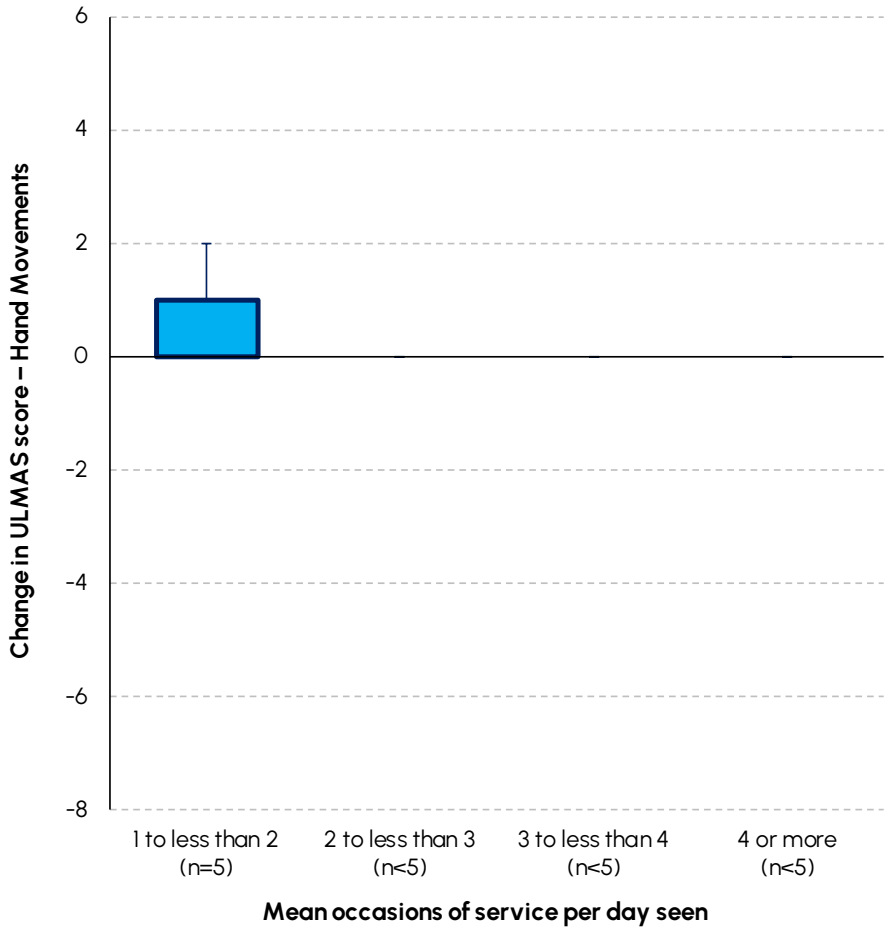
All Ambulatory 2022



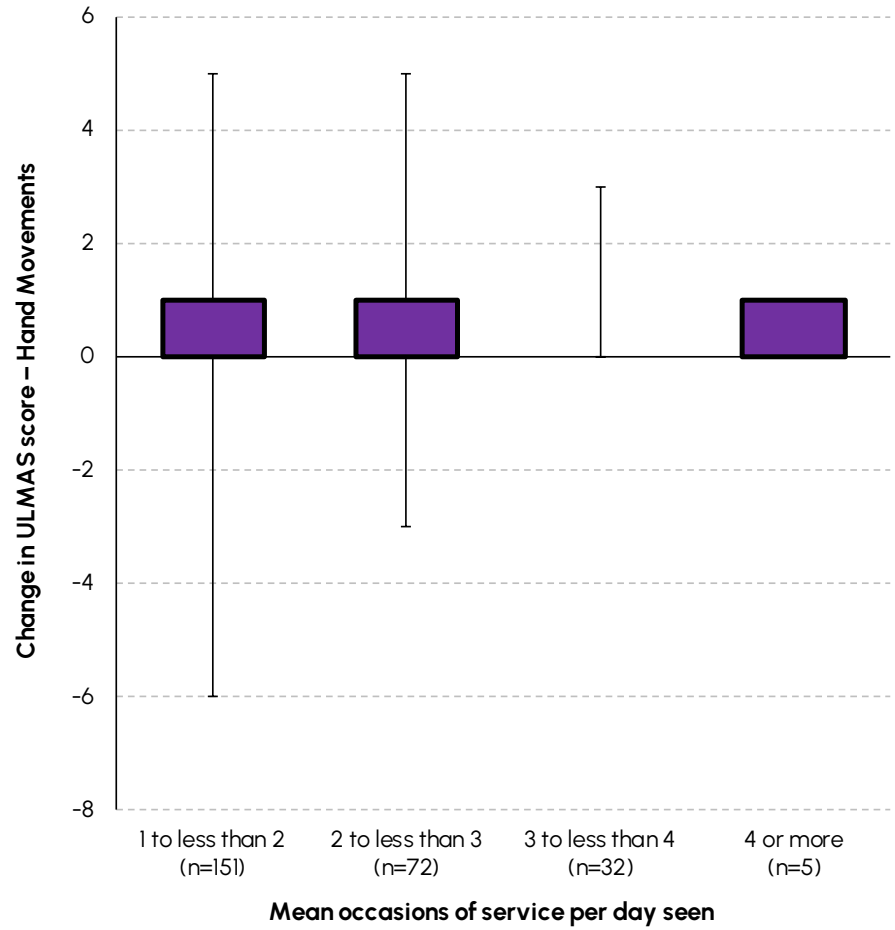
NOTE: To understand how to interpret these figures please refer to Appendix 3

Change in ULMAS score by OOS/day seen – Hand movements

Your Service 2022



All Ambulatory 2022

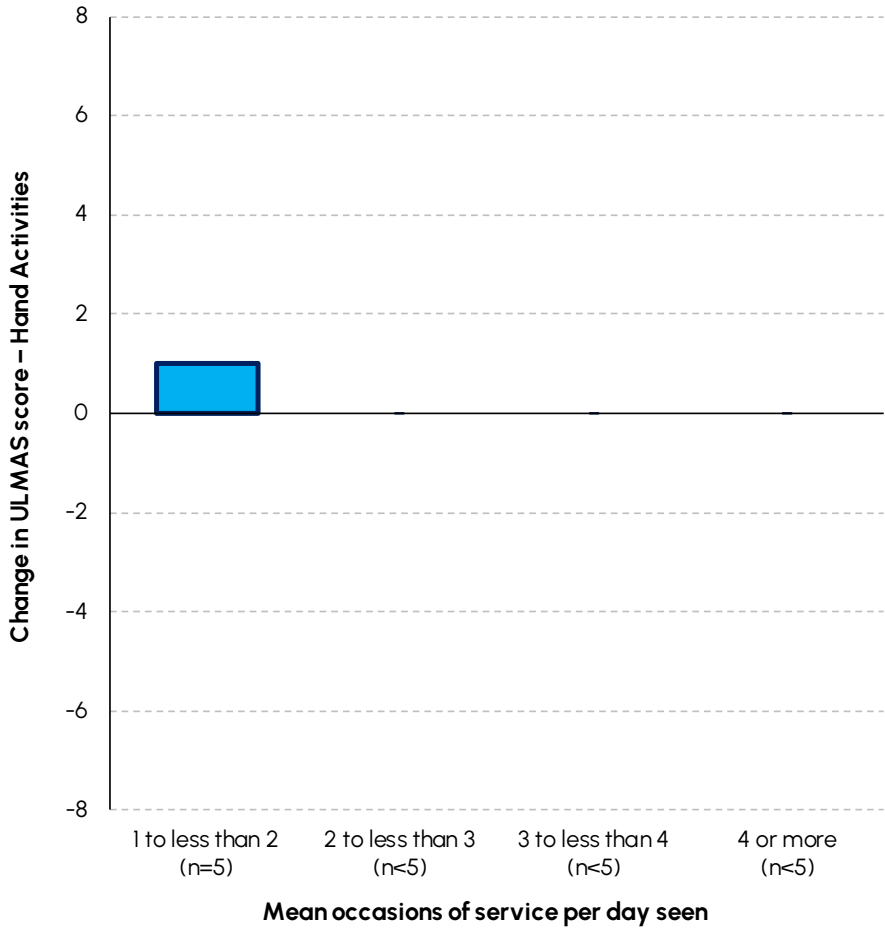


NOTE: To understand how to interpret these figures please refer to Appendix 3

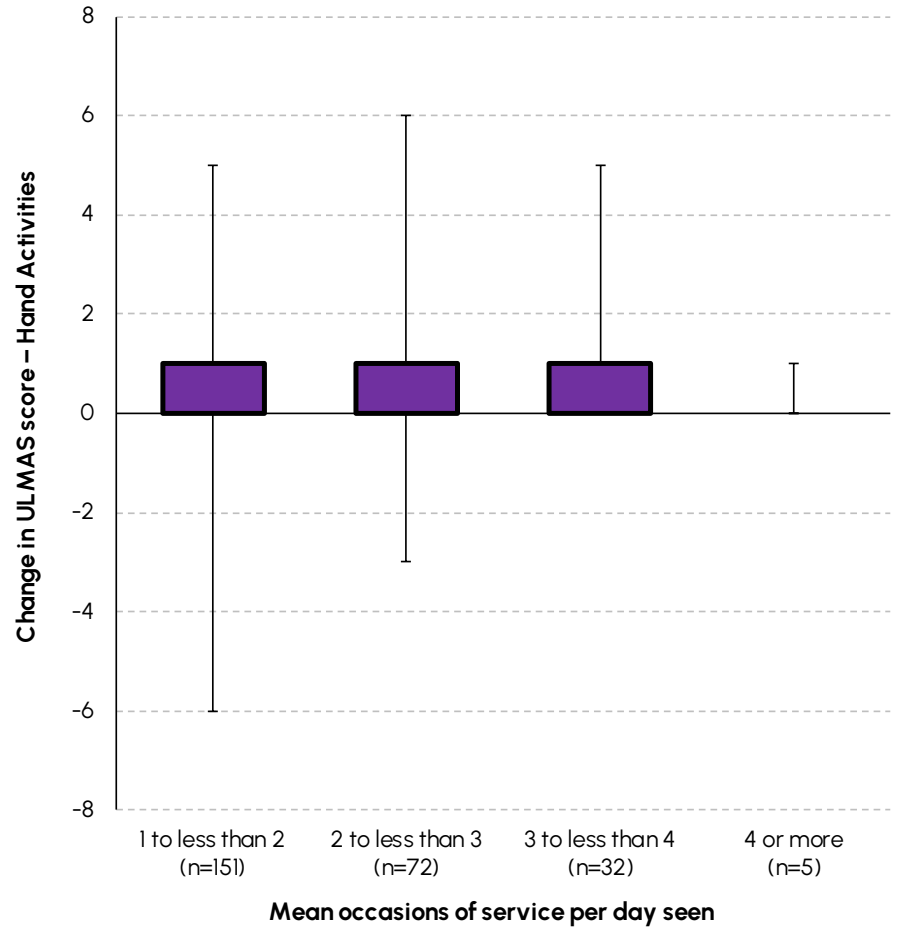
Change in ULMAS score by OOS/day seen – Hand activities



Your Service 2022



All Ambulatory 2022

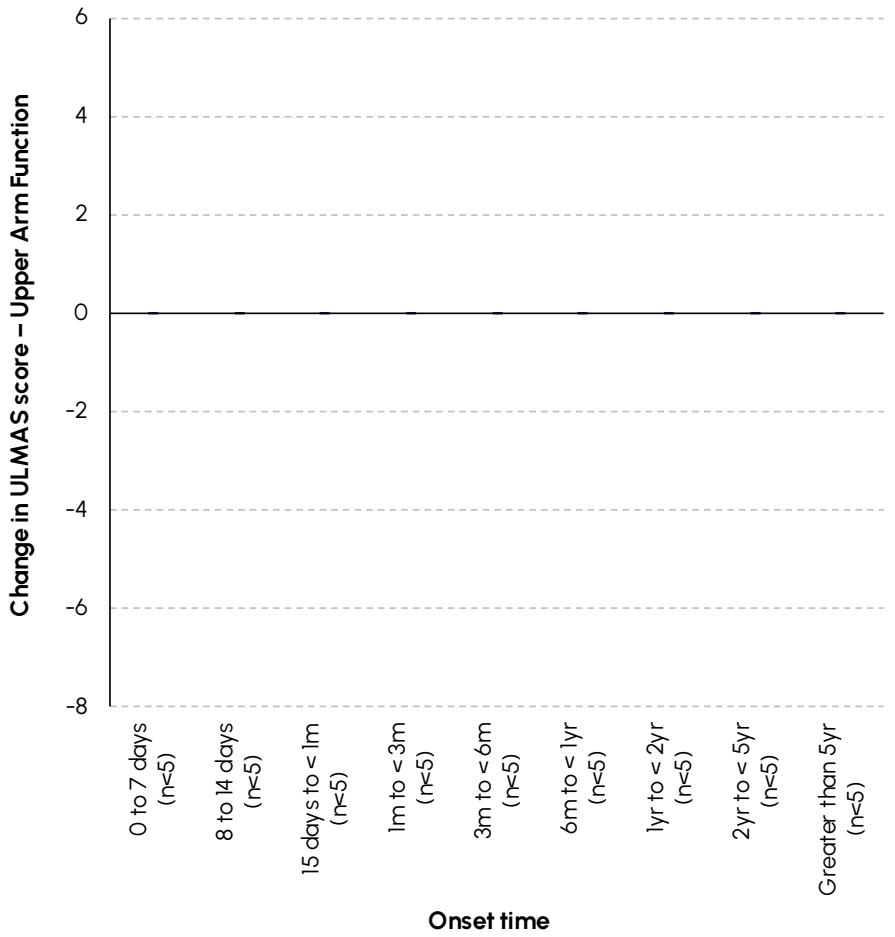


NOTE: To understand how to interpret these figures please refer to Appendix 3

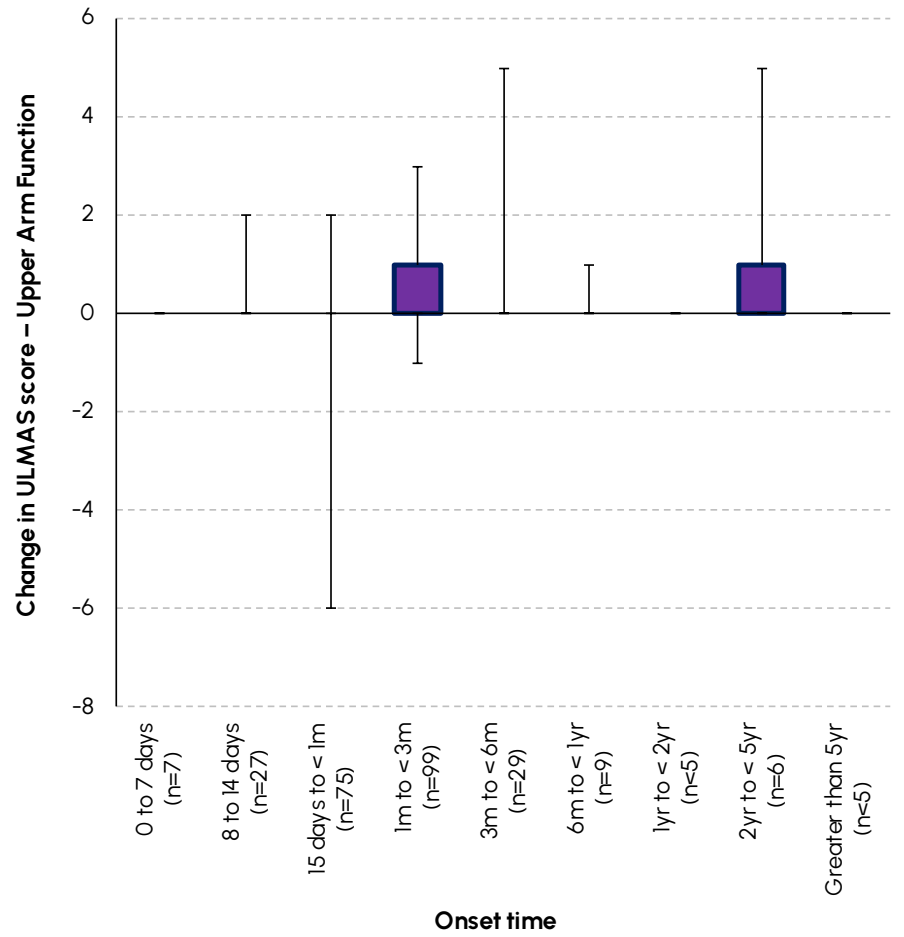
Change in ULMAS score by onset time – Upper arm function



Your Service 2022



All Ambulatory 2022

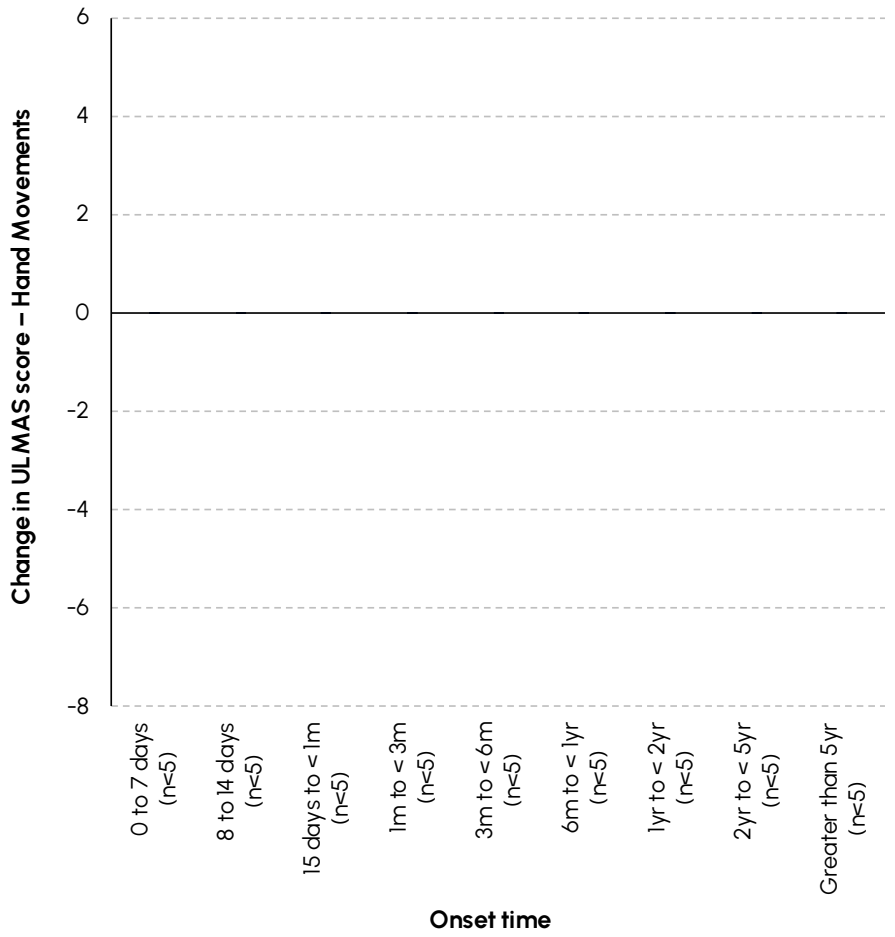


NOTE: To understand how to interpret these figures please refer to Appendix 3

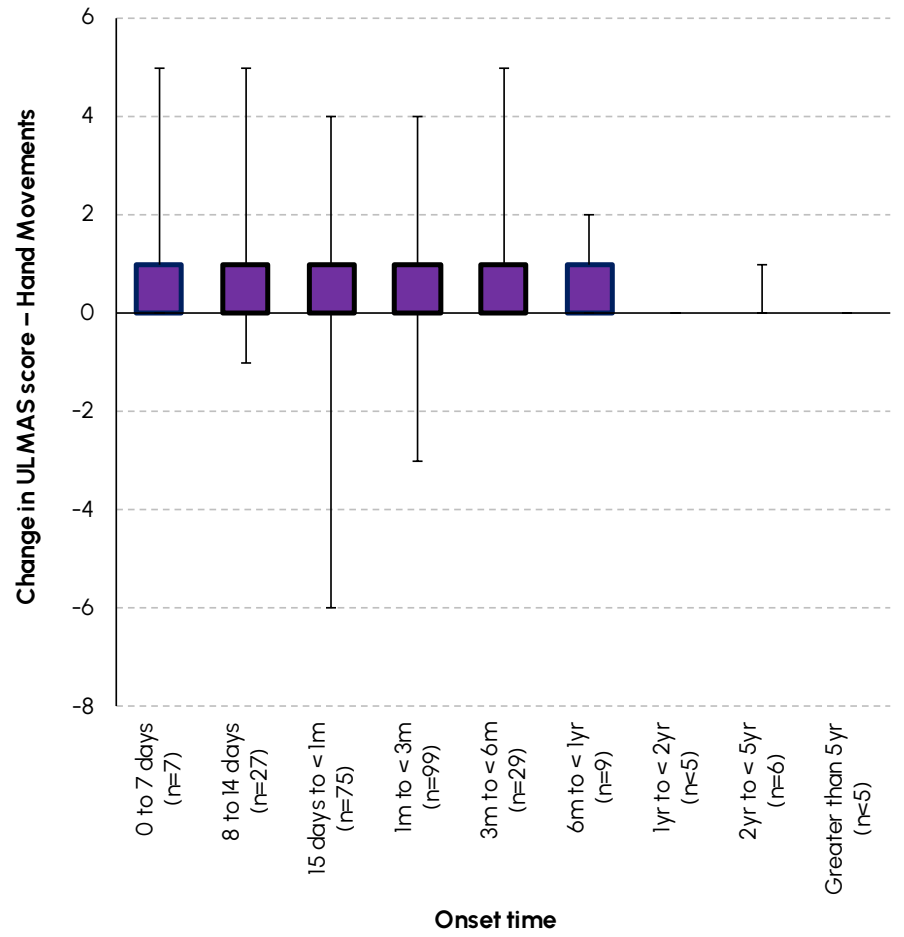
Change in ULMAS score by onset time – Hand movements



Your Service 2022



All Ambulatory 2022

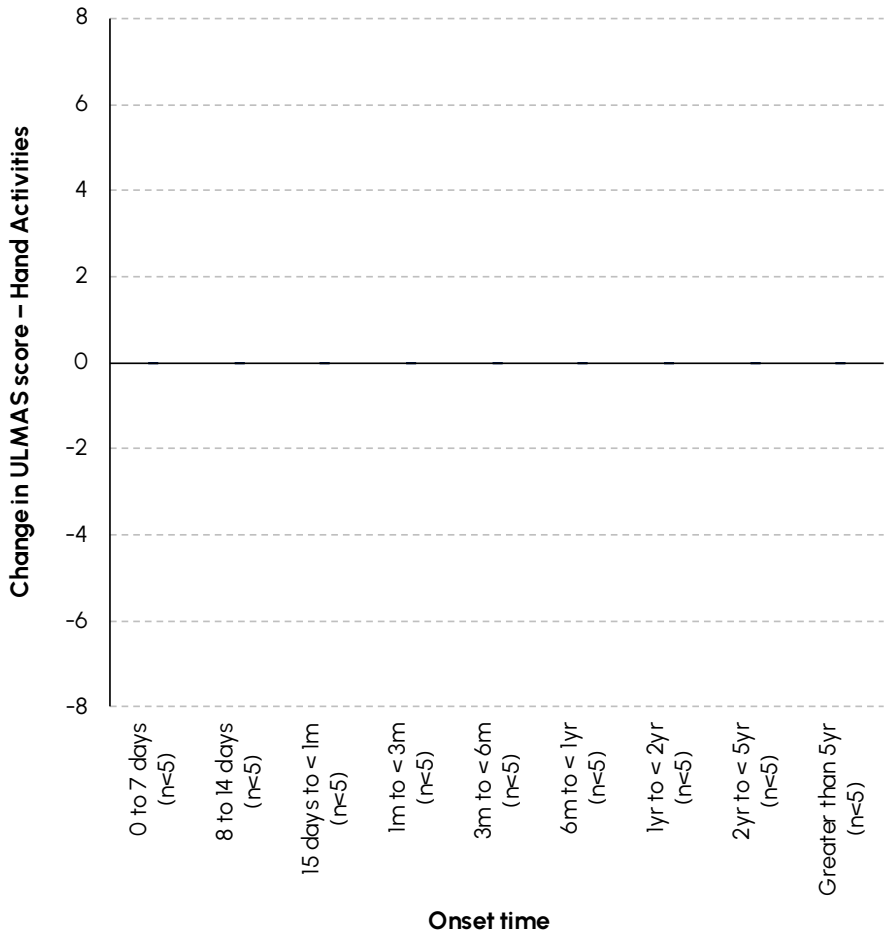


NOTE: To understand how to interpret these figures please refer to Appendix 3

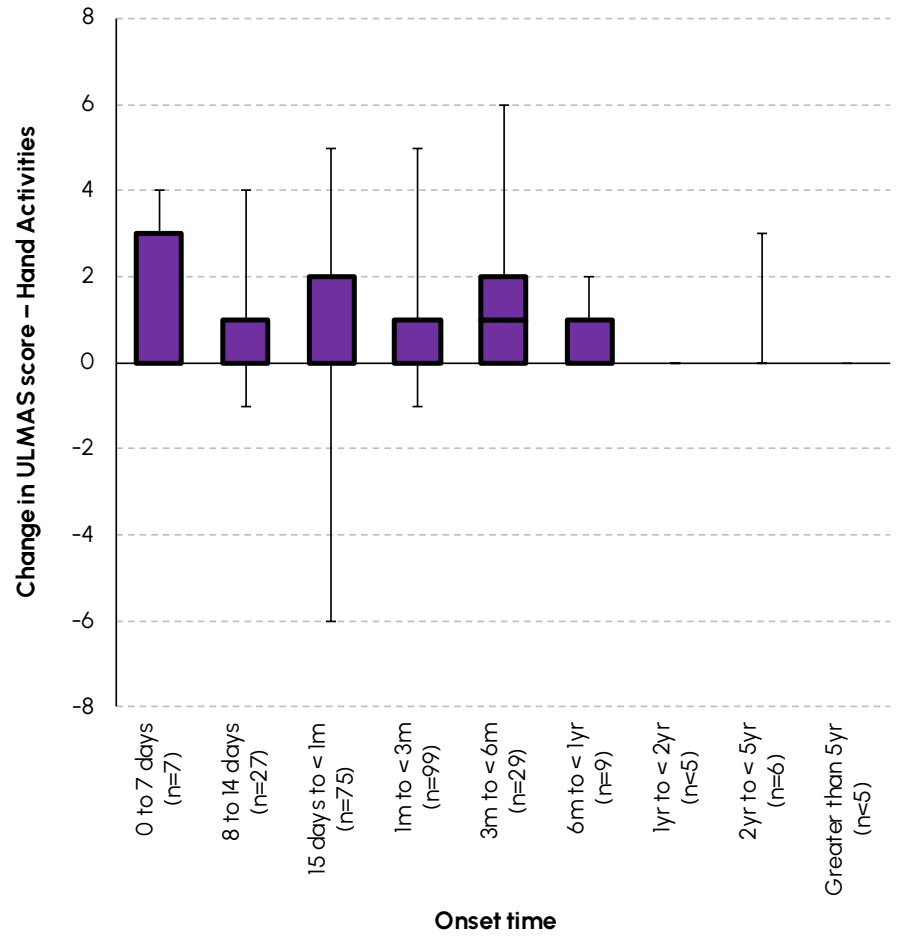
Change in ULMAS score by onset time – Hand activities



Your Service 2022



All Ambulatory 2022



NOTE: To understand how to interpret these figures please refer to Appendix 3

Timed 10 metre walk test



This data item is collected in addition to the Australian Modified Lawton's IADL Scale for patients who may have gait impairment as a result of:

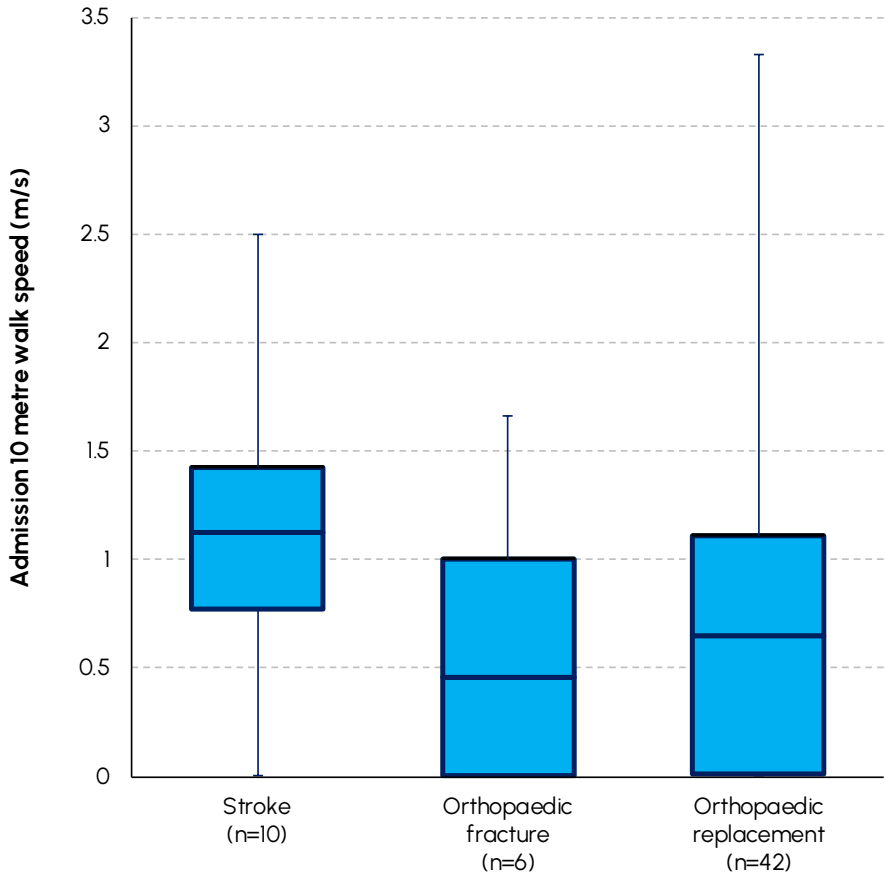
- Stroke
- Lower limb orthopaedic injury or joint replacement
- Amputation of lower limb (optional measure)

For further information refer to the AROC Ambulatory Data Dictionary V4.1 for Clinicians.

Admission timed 10 metre walk test speed by impairment

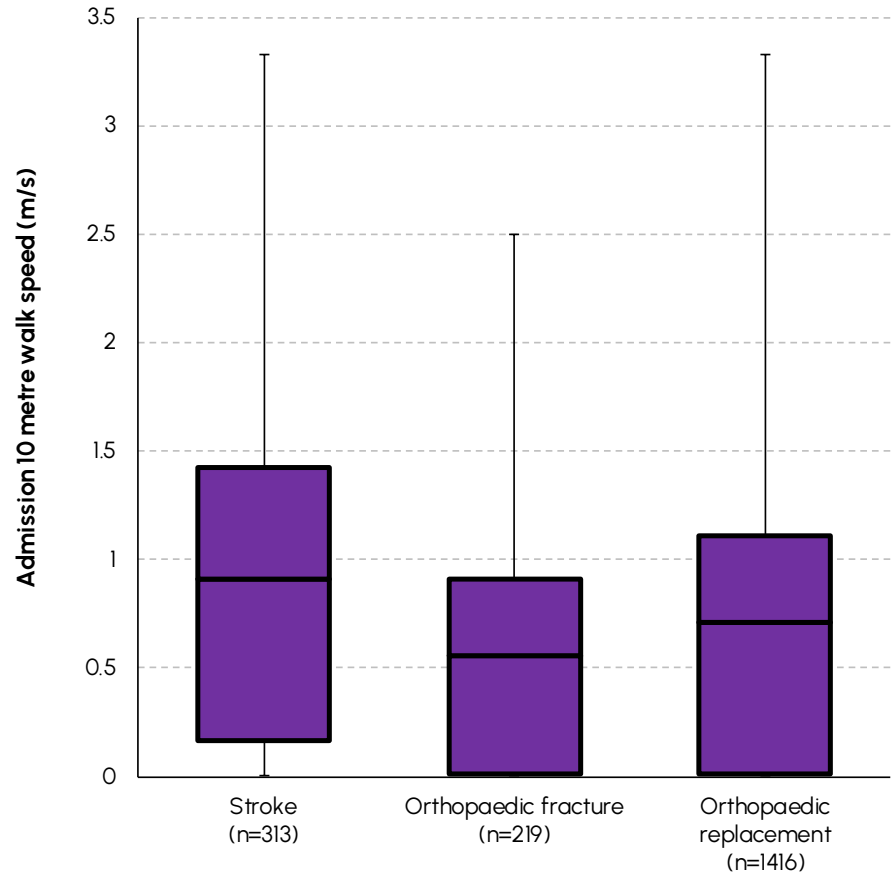


Your Service 2022



Note: All admissions.

All Ambulatory 2022

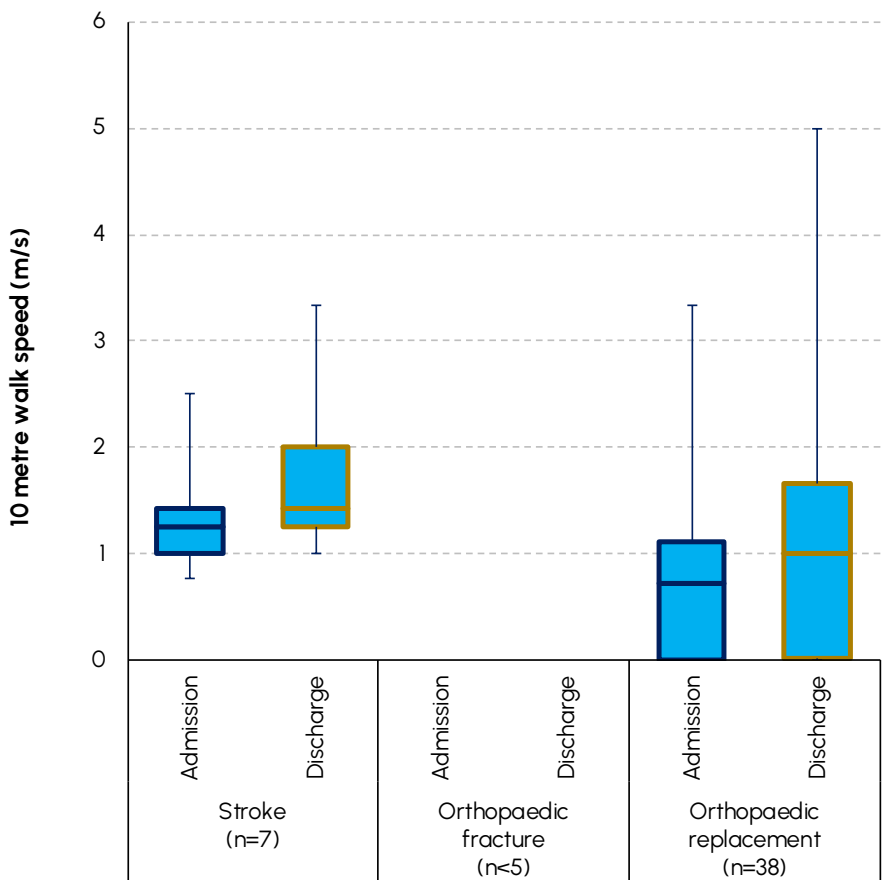


Note: All admissions.

NOTE: To understand how to interpret these figures please refer to Appendix 3

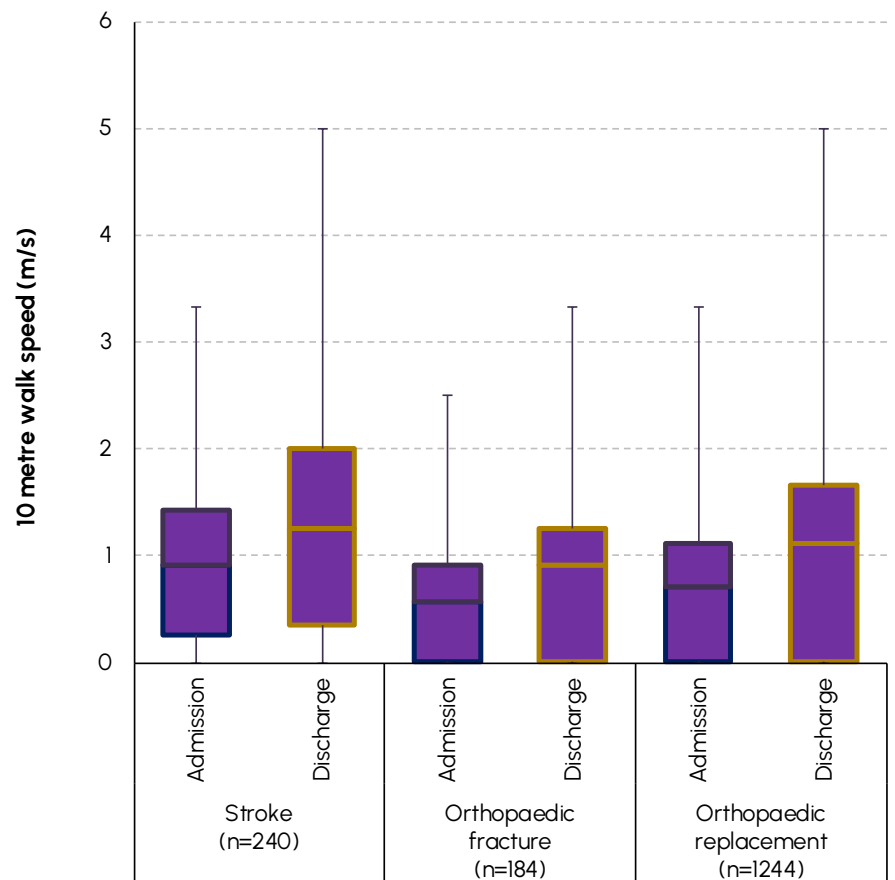
Admission and discharge timed 10 metre walk test speed by impairment

Your Service 2022



Note: Completed episodes only.

All Ambulatory 2022



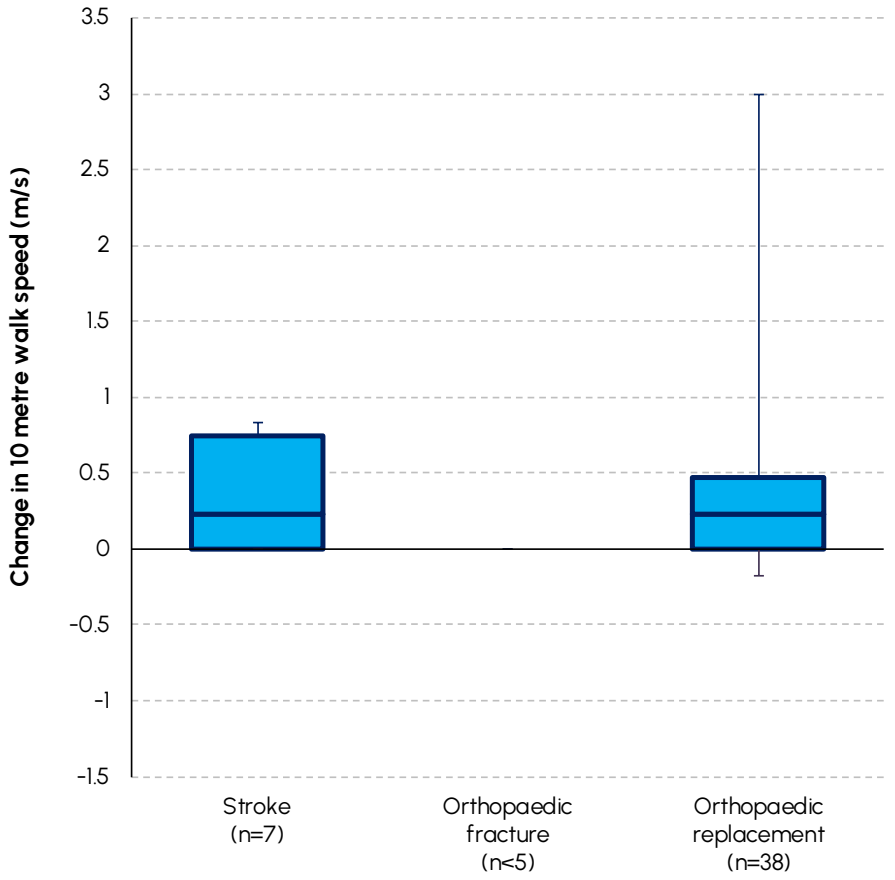
Note: Completed episodes only.

NOTE: To understand how to interpret these figures please refer to Appendix 3

Change in 10 metre walk speed by impairment

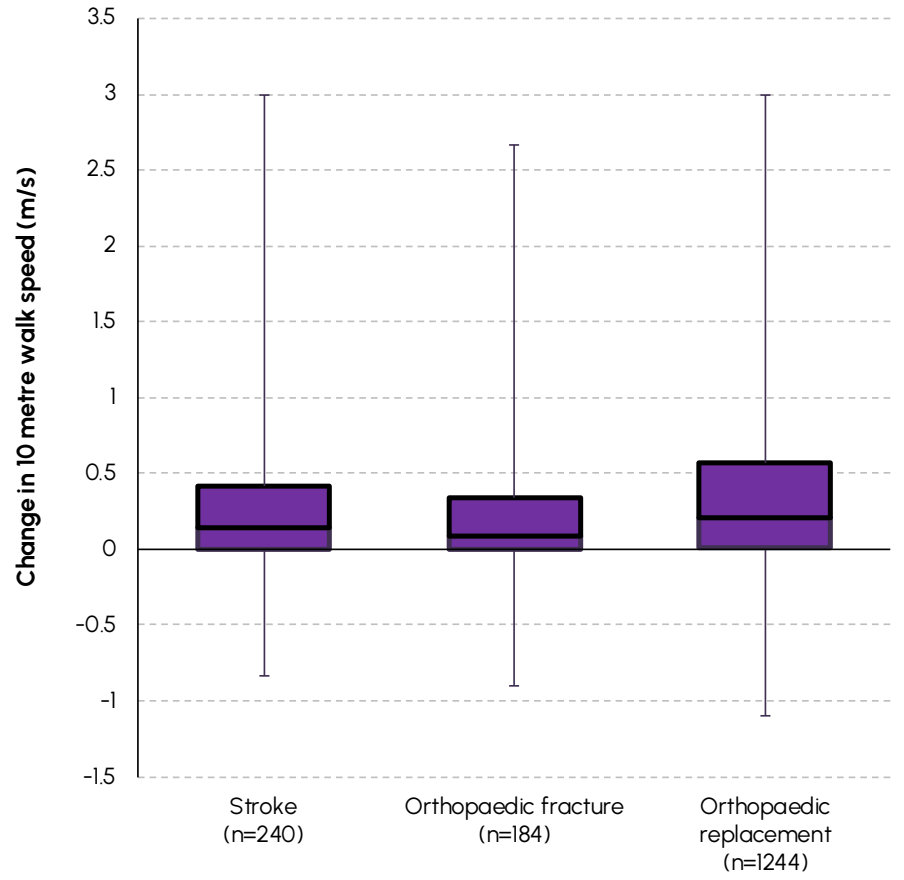


Your Service 2022



Note: Completed episodes only.

All Ambulatory 2022



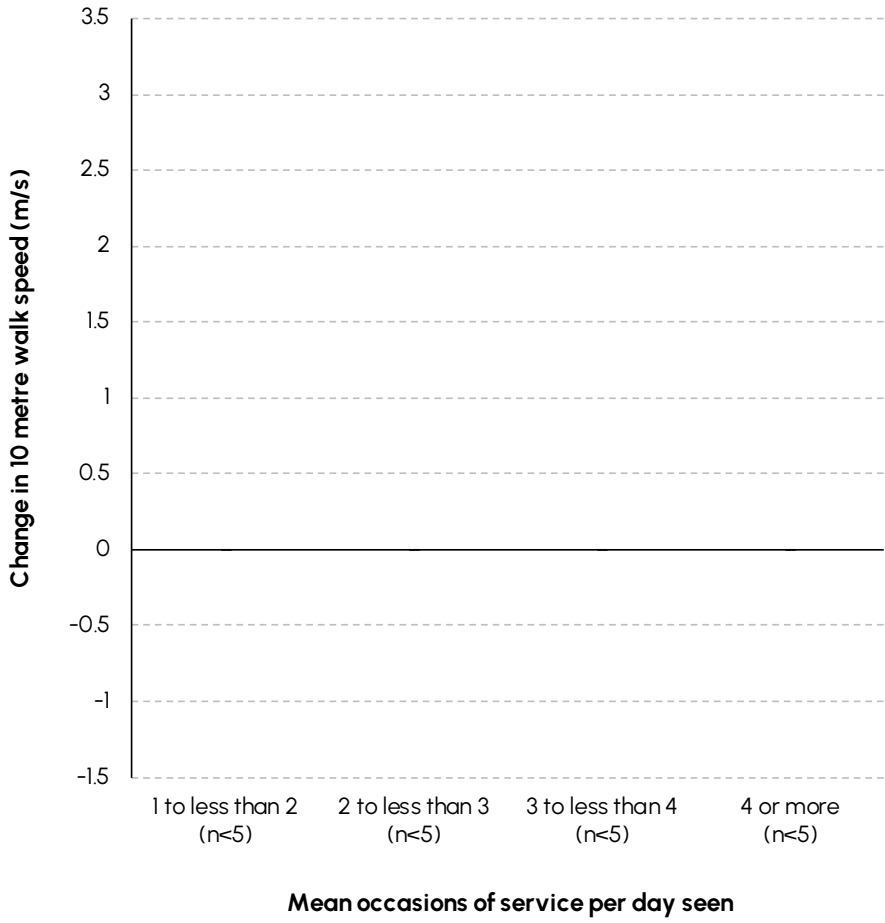
Note: Completed episodes only.

NOTE: To understand how to interpret these figures please refer to Appendix 3

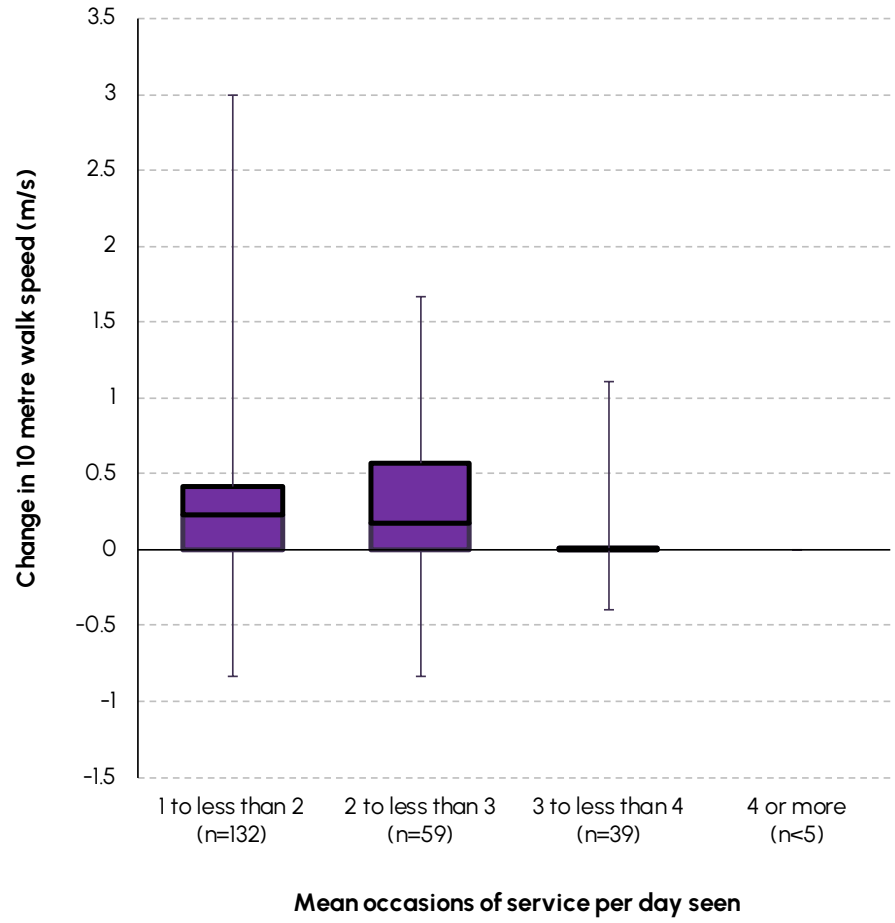
Change in 10 metre walk speed by OOS/day seen – Stroke



Your Service 2022



All Ambulatory 2022

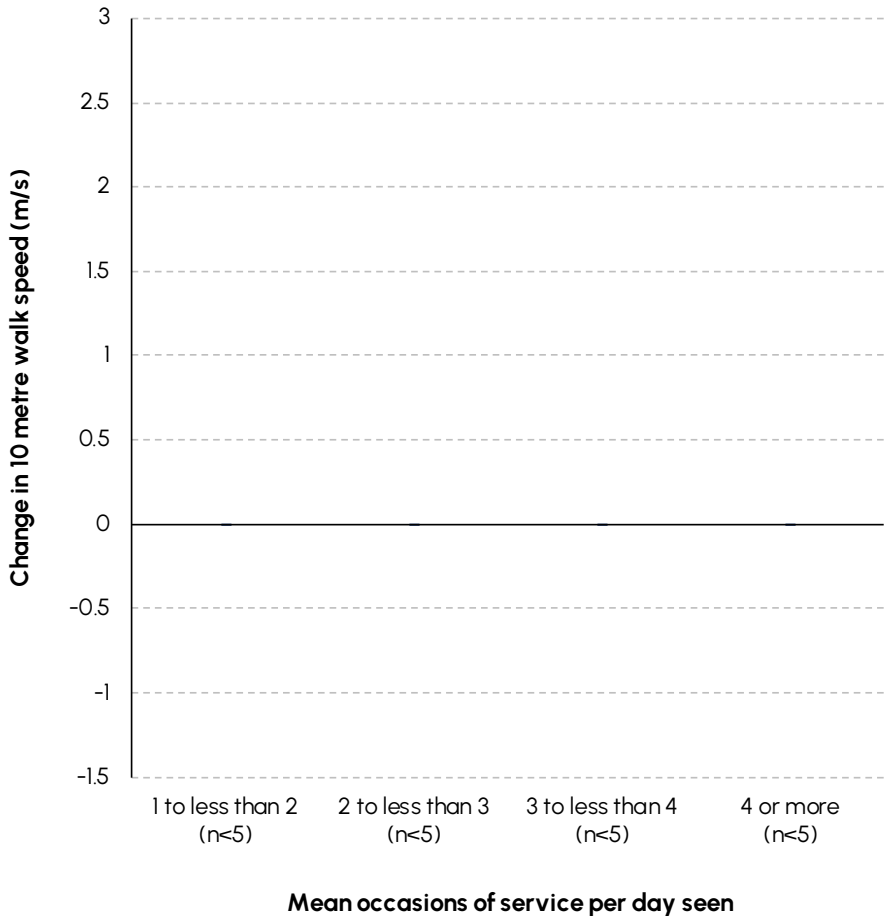


NOTE: To understand how to interpret these figures please refer to Appendix 3

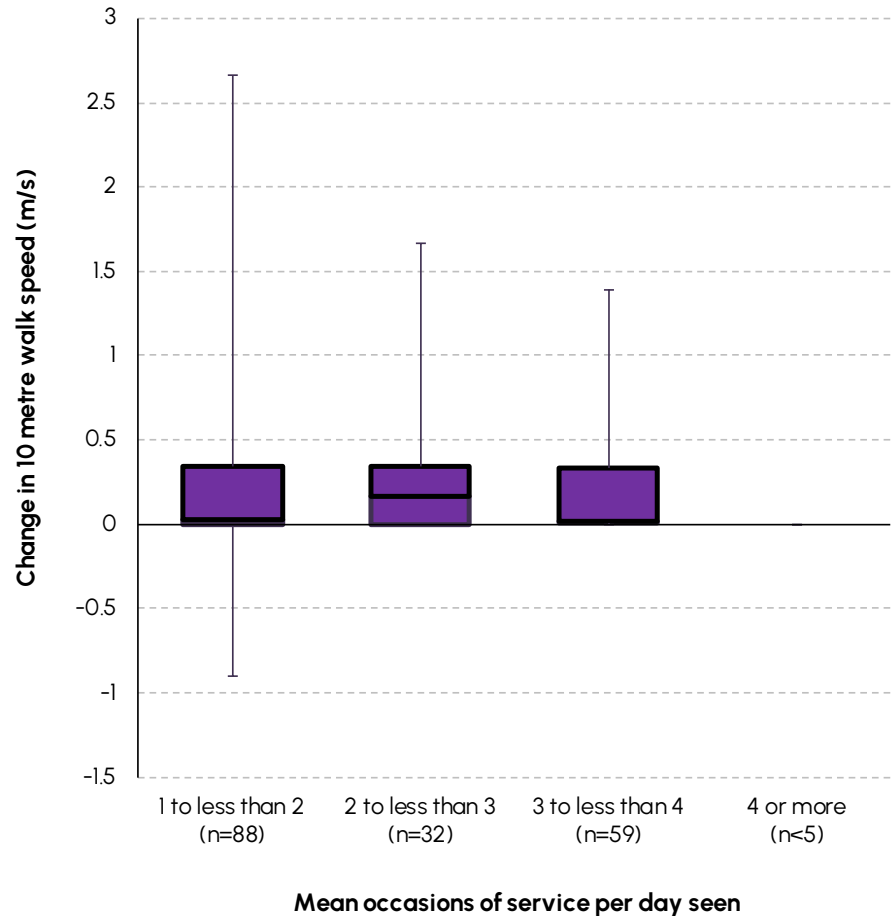
Change in 10 metre walk speed by OOS/day seen – Orthopaedic fractures



Your Service 2022



All Ambulatory 2022

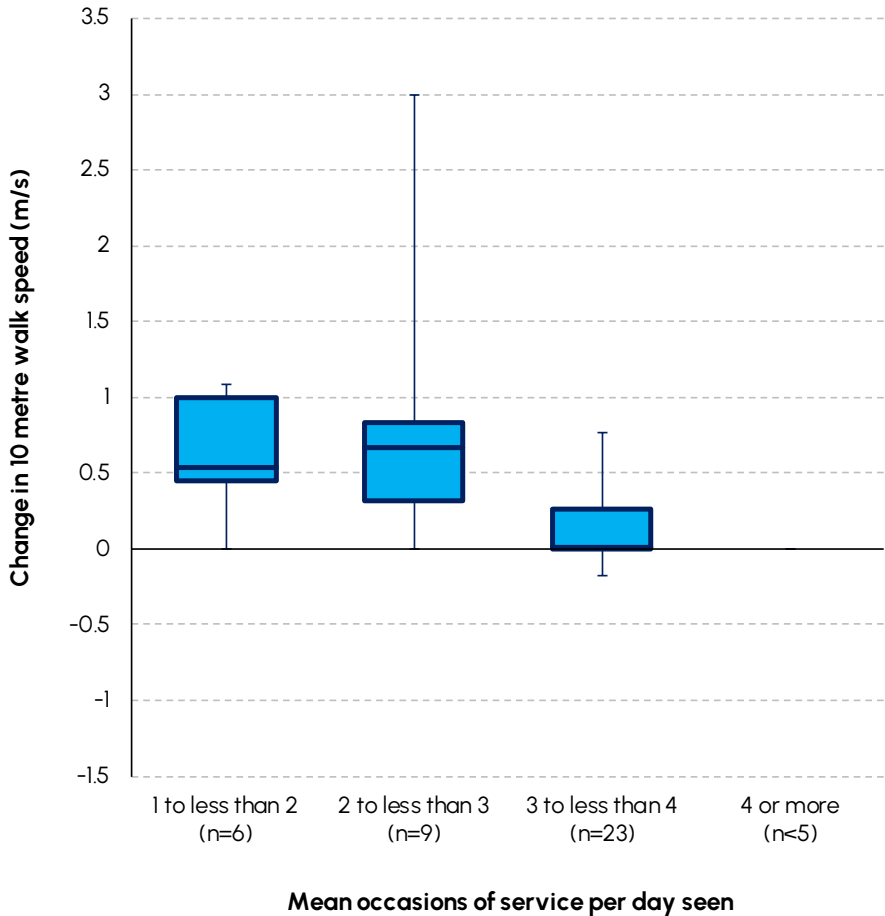


NOTE: To understand how to interpret these figures please refer to Appendix 3

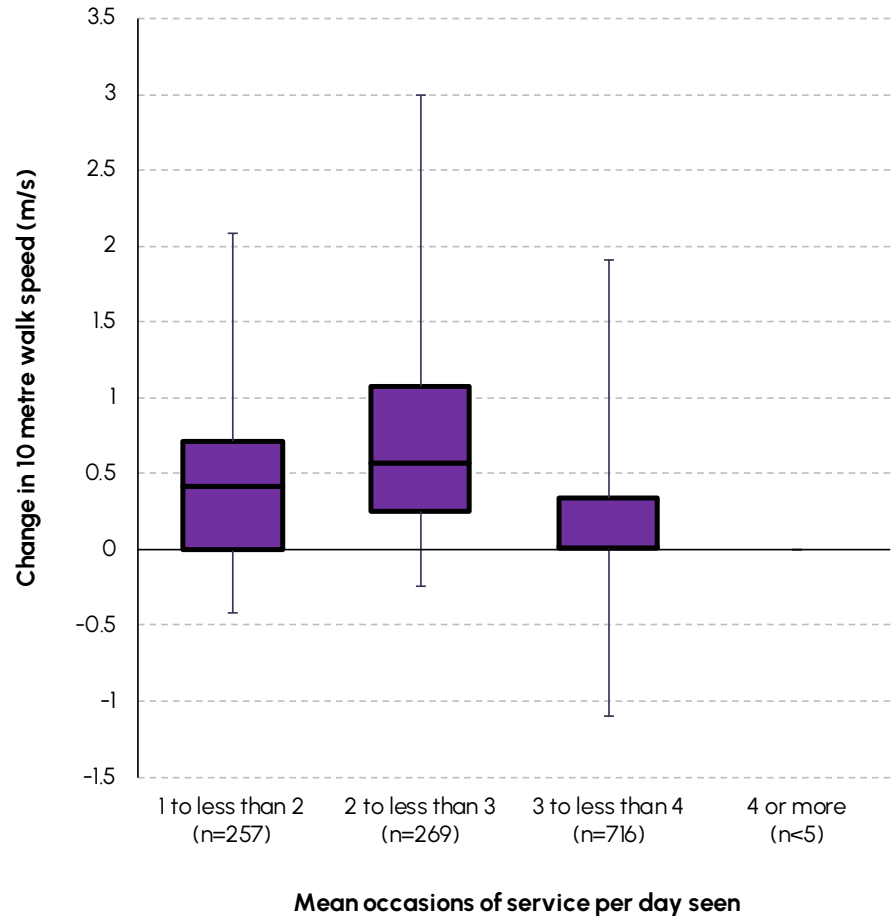
Change in 10 metre walk speed by OOS/day seen – Orthopaedic replacements



Your Service 2022



All Ambulatory 2022



NOTE: To understand how to interpret these figures please refer to Appendix 3

De Morton Mobility Index (DEMMI)



- This data item is collected in addition to the Australian Modified Lawton's IADL Scale for patients who may have functional impairment as a result of deconditioning.
- The DEMMI is an advanced instrument for accurately measuring and monitoring changes in mobility for all older adults.

Only complete for rehabilitation episodes with AROC impairment codes:

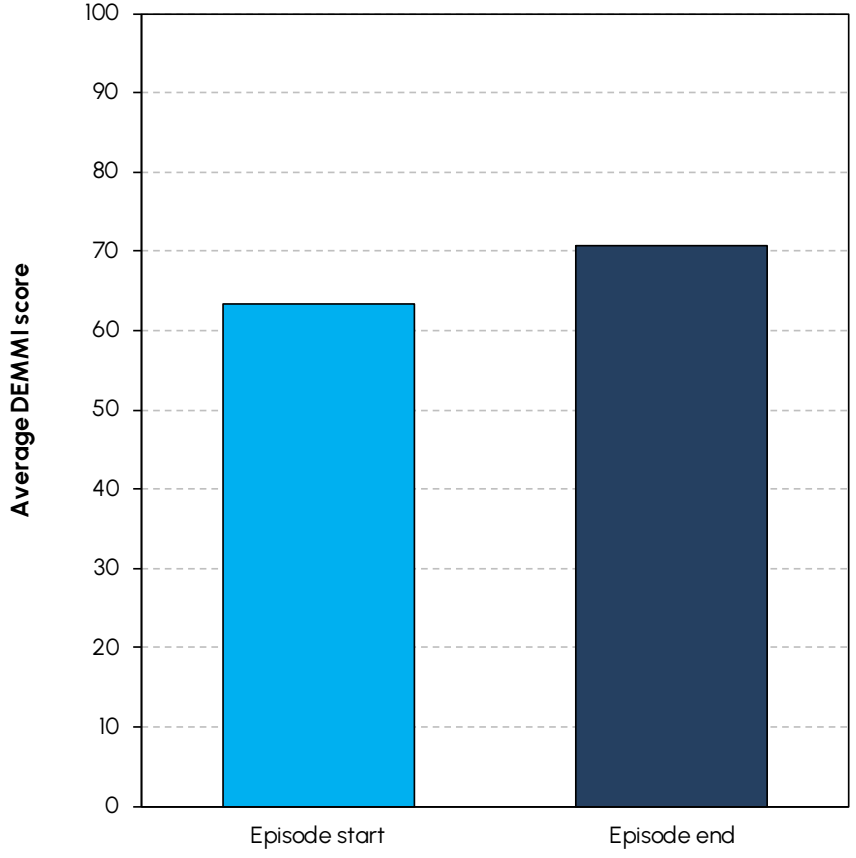
- 16.1 - Reconditioning following surgery
- 16.2 - Reconditioning following medical illness
- 16.3 - Cancer rehabilitation

For further information refer to the AROC Ambulatory Data Dictionary V4.1 for Clinicians.

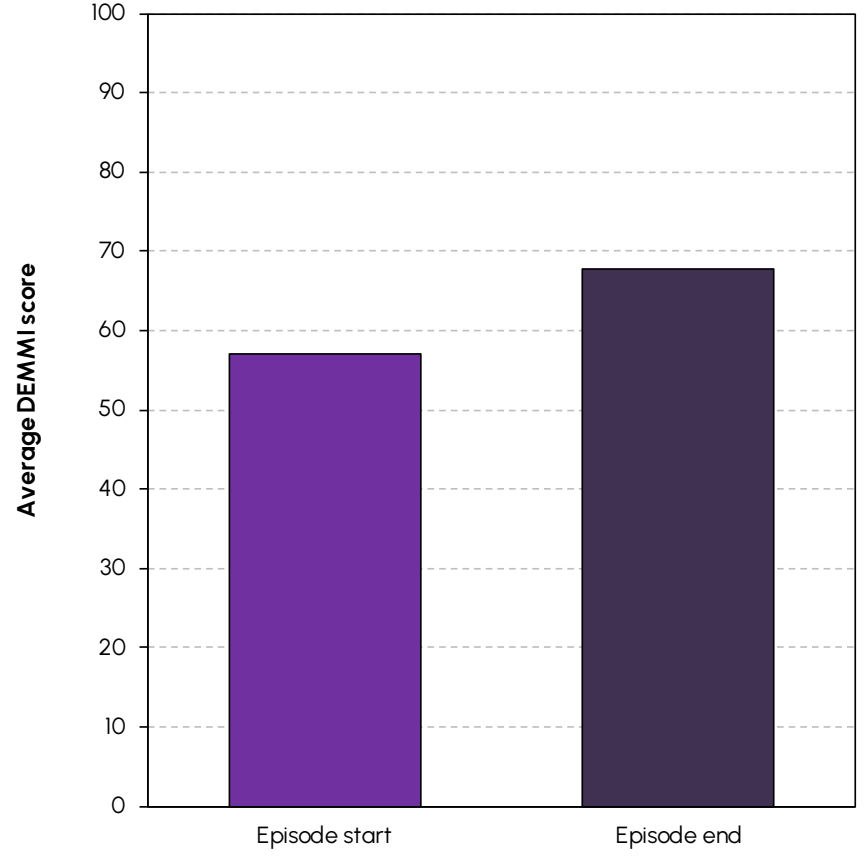
Average DEMMI start and end score



Your Service 2022 (n=13)



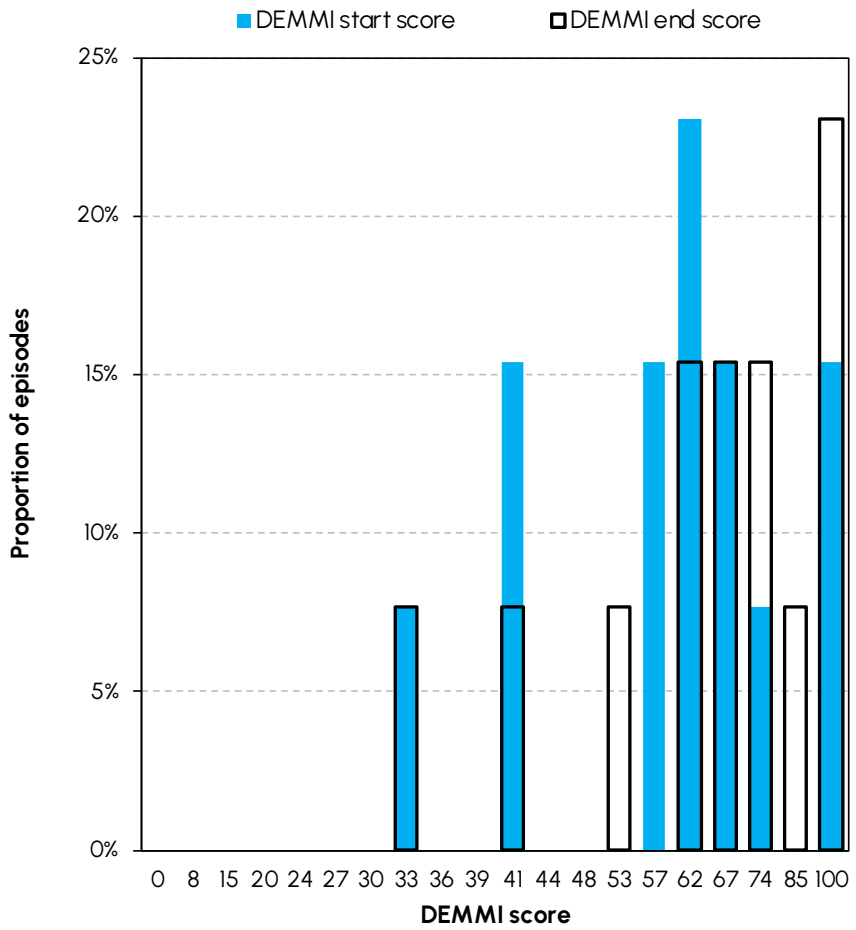
All Ambulatory 2022 (n=328)



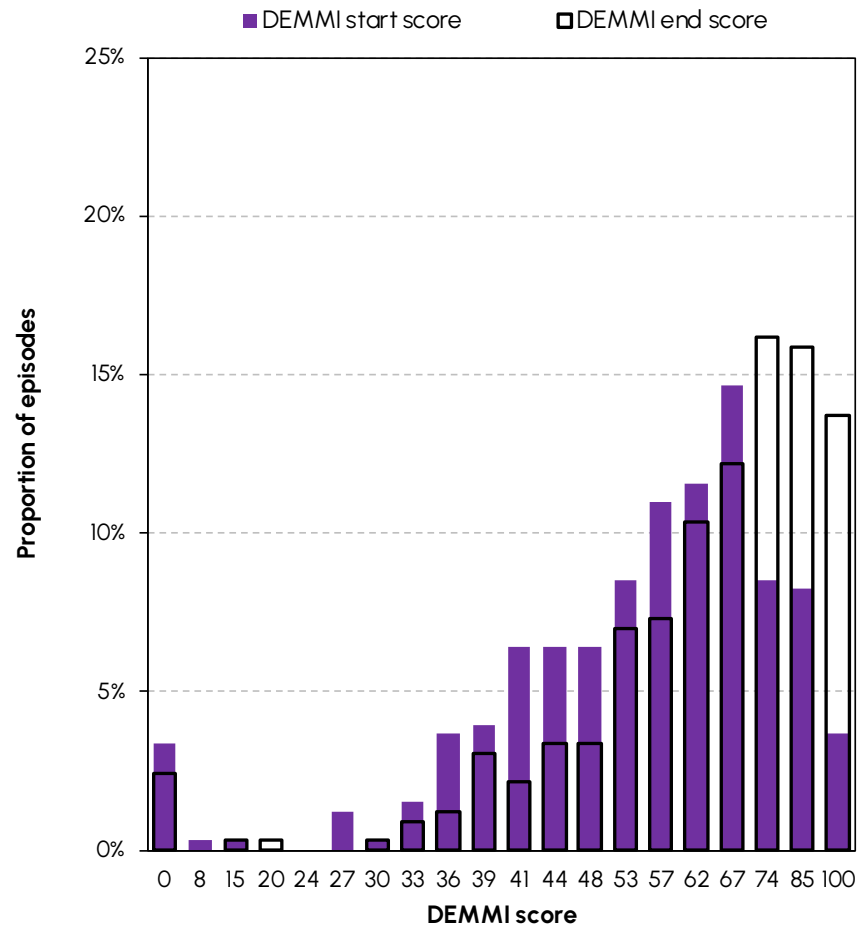
DEMMI start and end total – all episodes



Your Service 2022 (n=13)

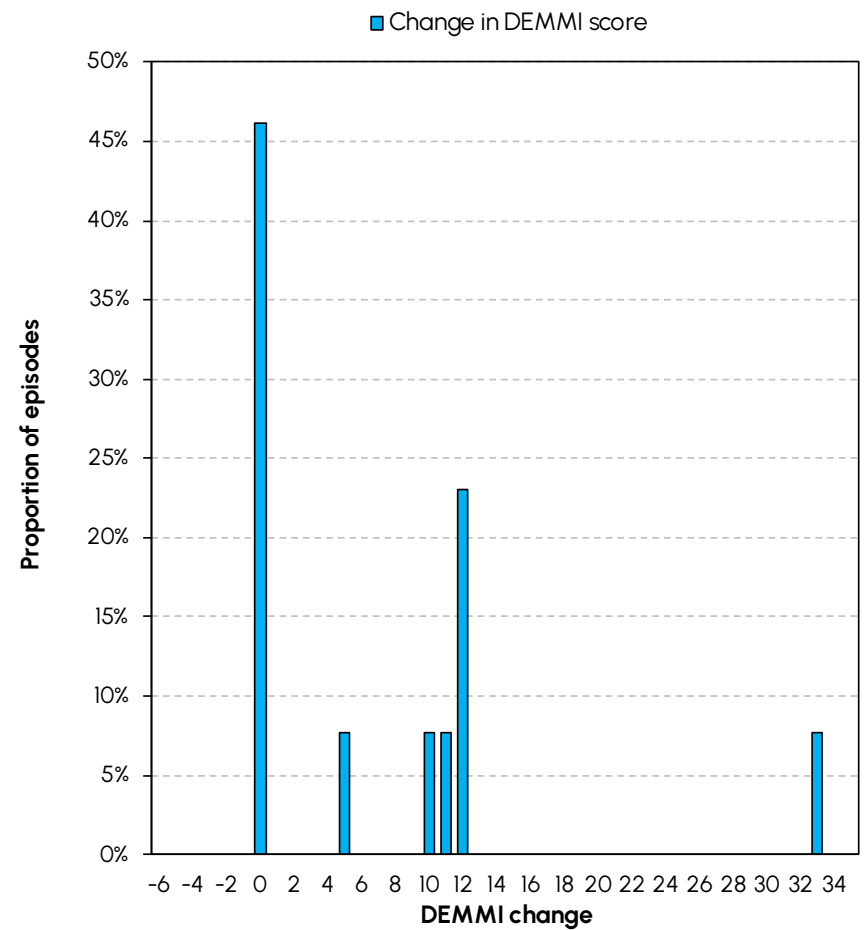


All Ambulatory 2022 (n=328)

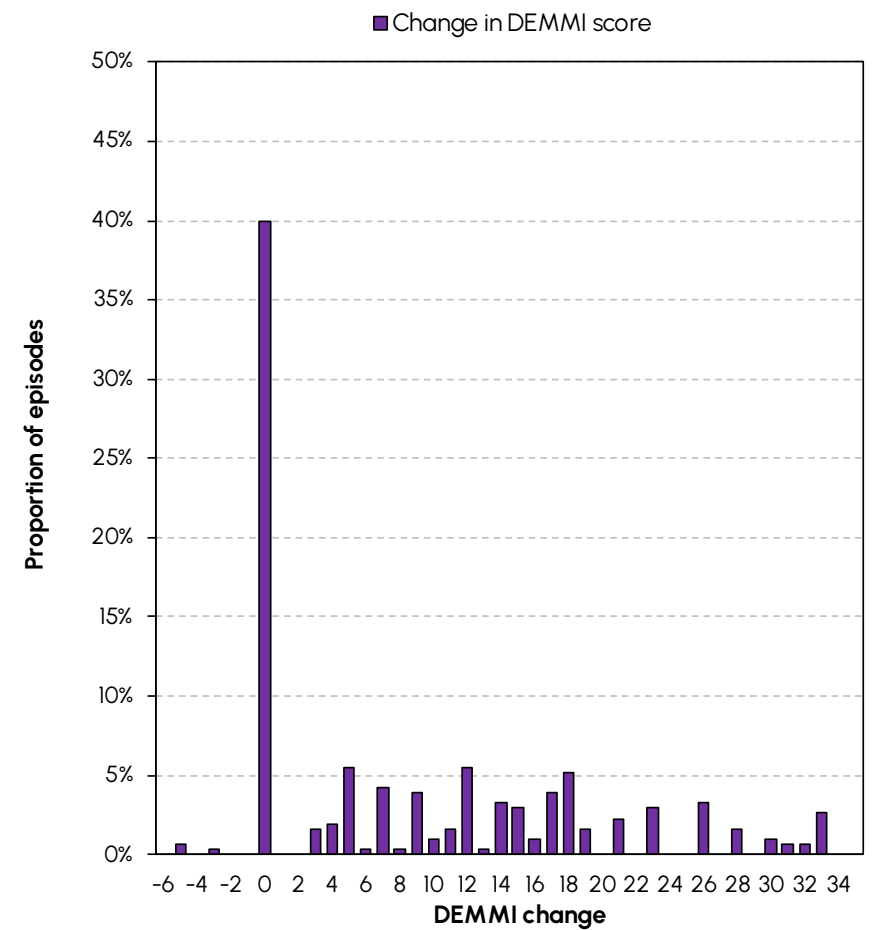


Change in DEMMI score – all episodes

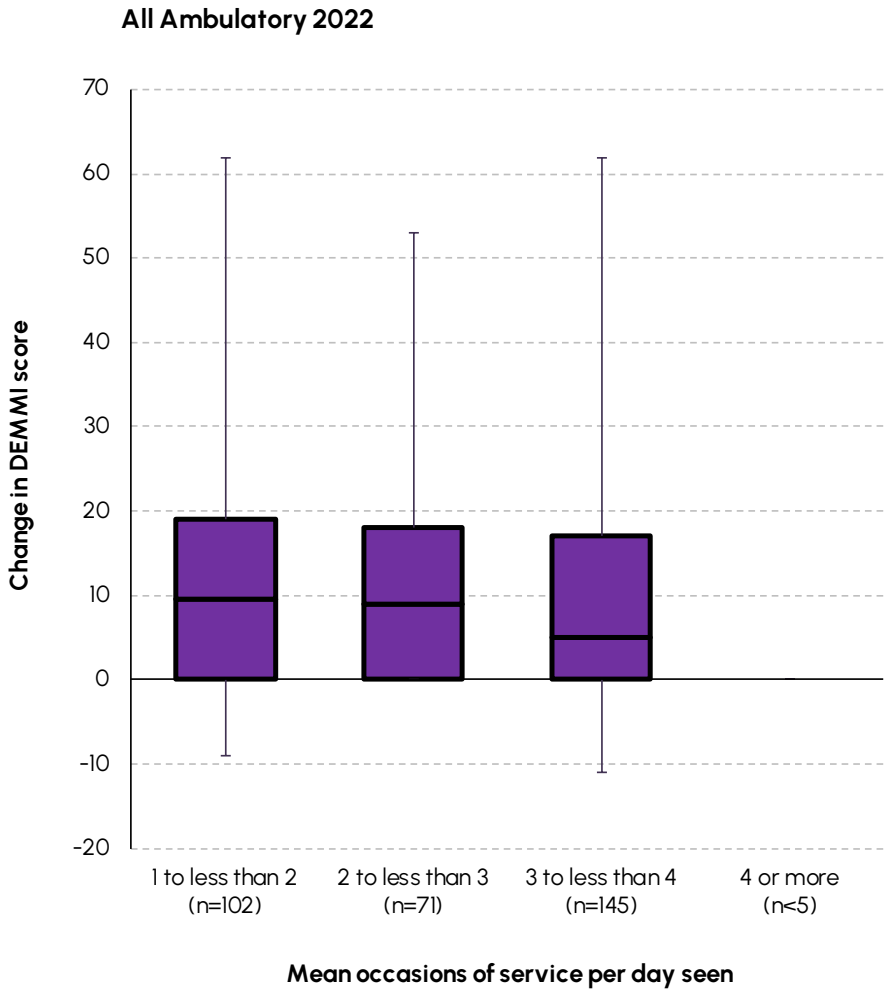
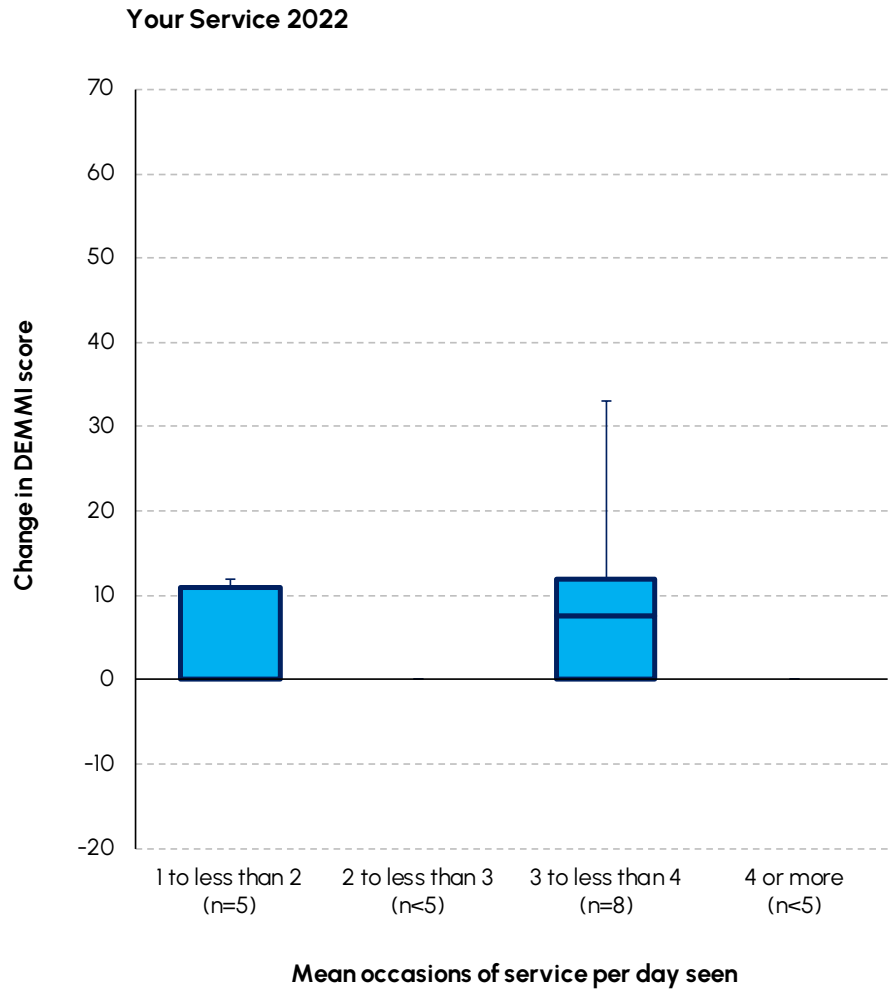
Your Service 2022 (n=13)



All Ambulatory 2022 (n=328)



Change in DEMMI score by OOS/day seen – all episodes

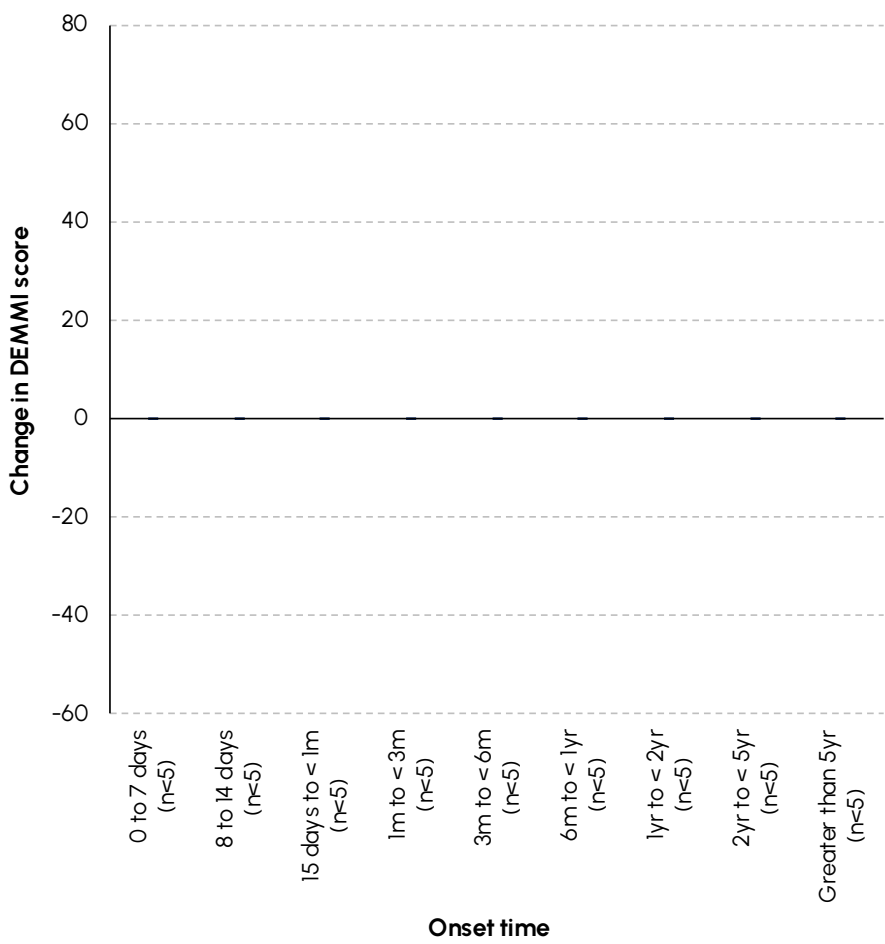


NOTE: To understand how to interpret these figures please refer to Appendix 3

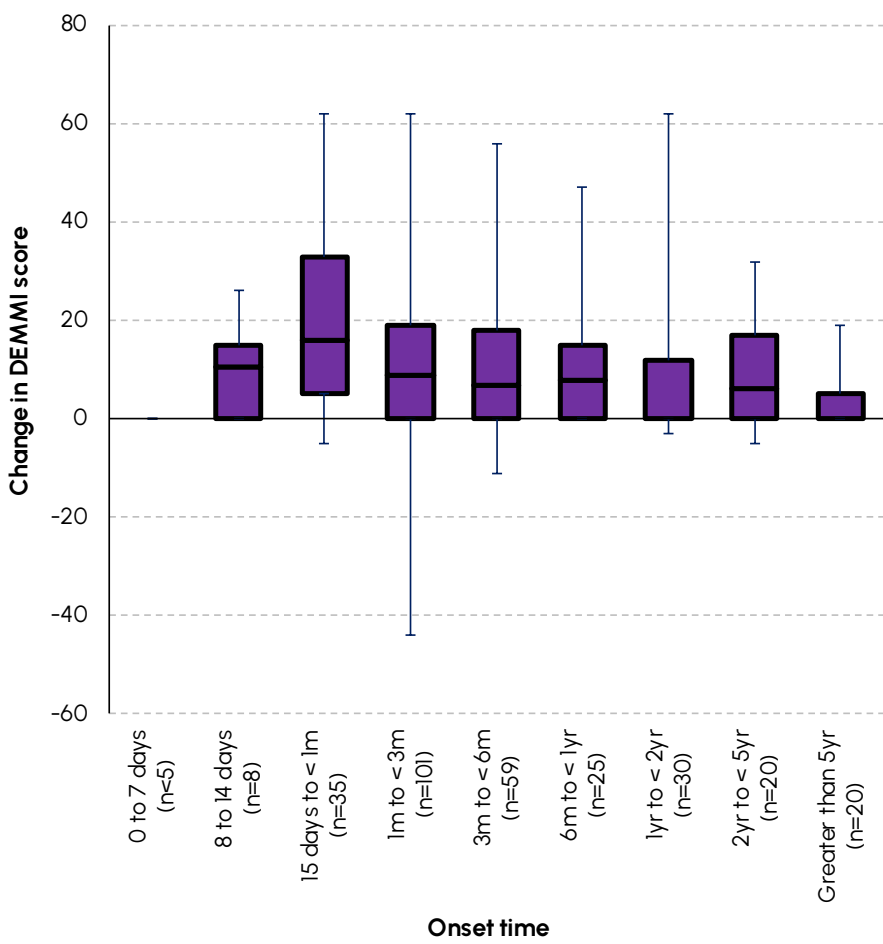
Change in DEMMI score by onset time – all episodes



Your Service 2022



All Ambulatory 2022



NOTE: To understand how to interpret these figures please refer to Appendix 3

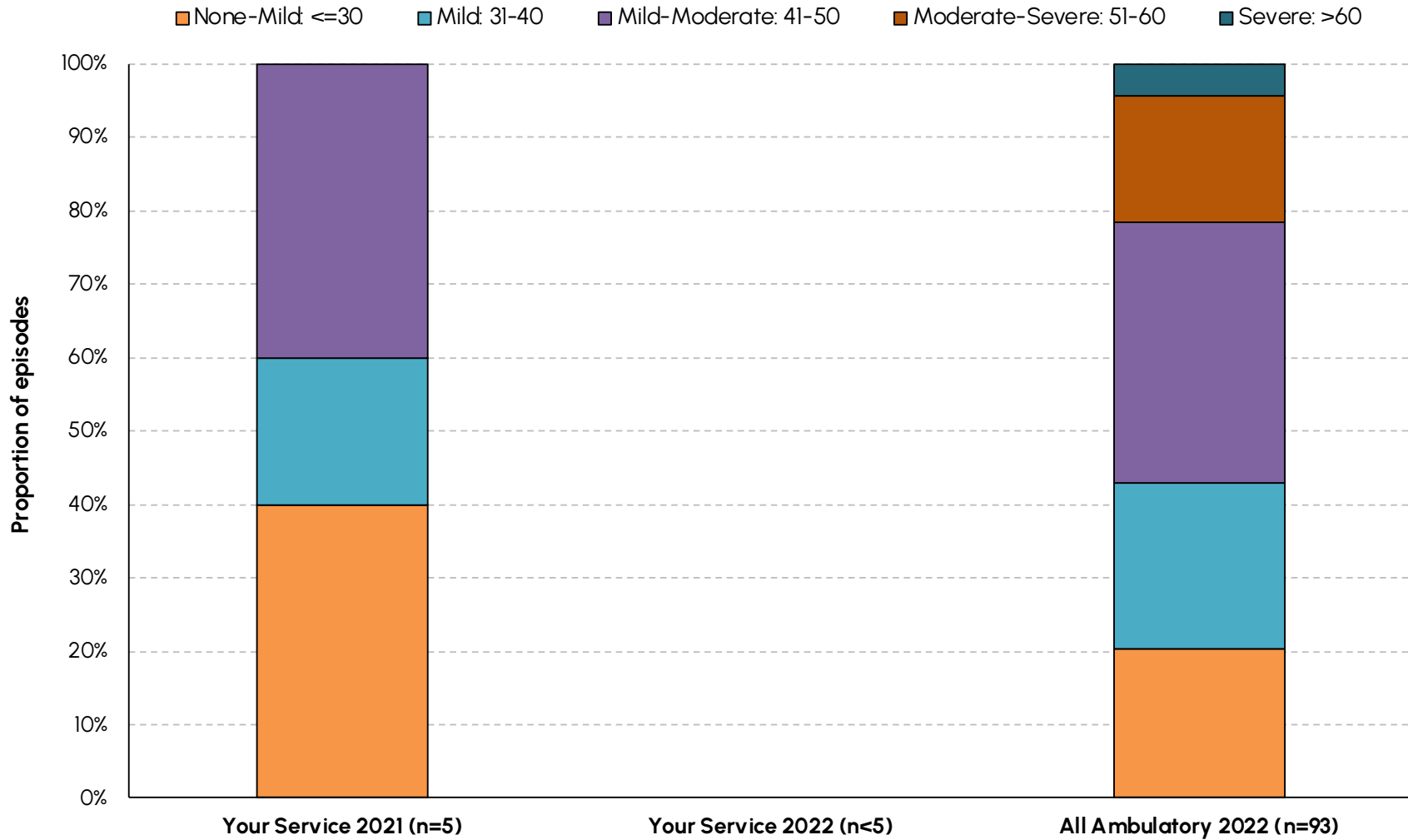
Mayo-Portland Adaptability Index-4 (MPAI-4)



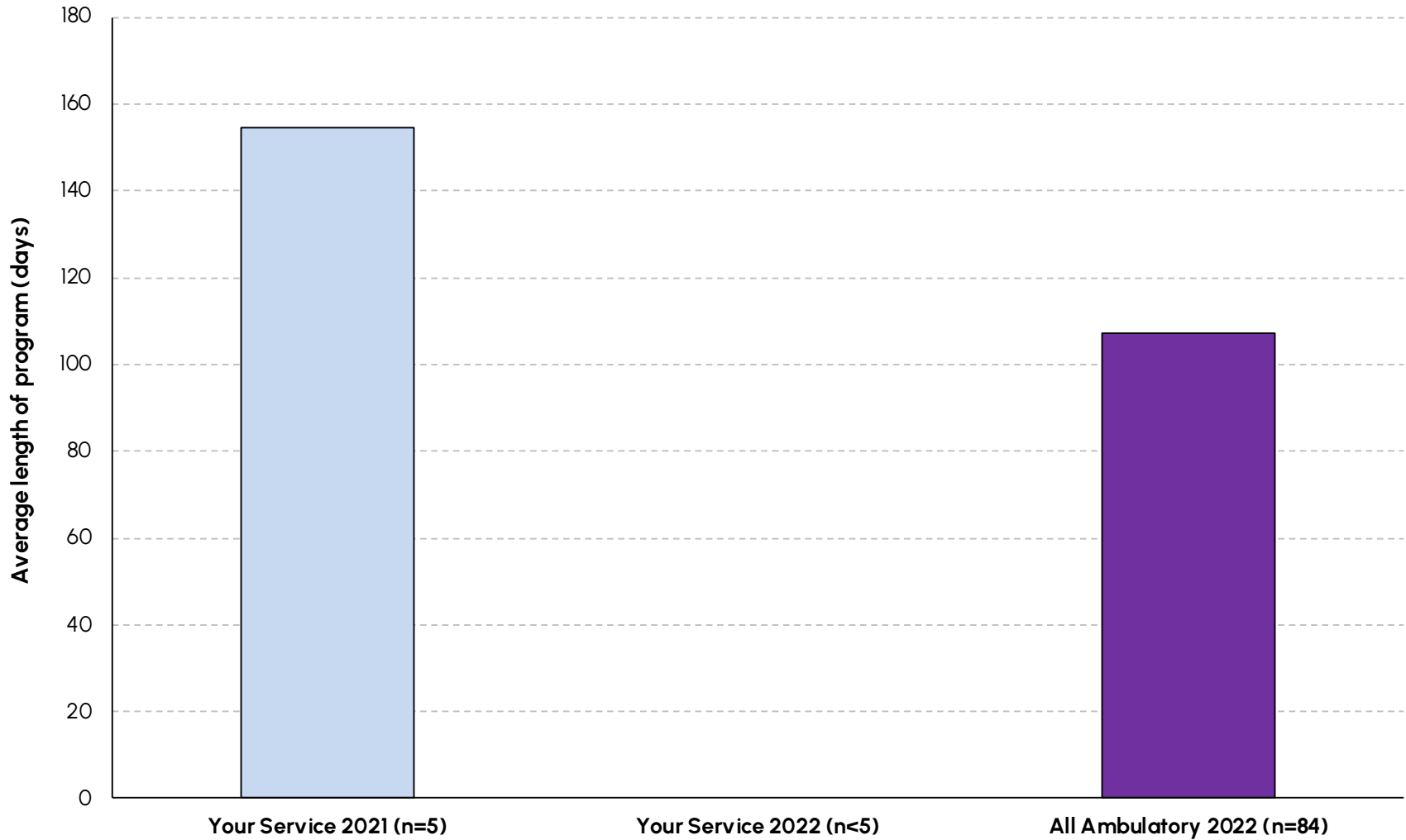
- This data item is collected in addition to the Australian Modified Lawton's IADL Scale for patients who may have functional impairment as a result of brain injury.
- The MPAI-4 was specifically designed for the evaluation of individuals during the post-acute period following ABI.
- The MPAI-4 consists of 29 items in three subscales (the Ability Index, the Adjustment Index and the Participation Index) plus an additional six items that are not included in the MPAI-4 score.

For further information refer to the AROC Ambulatory Data Dictionary V4.1 for Clinicians.

Casemix of episodes submitted MPAI-4



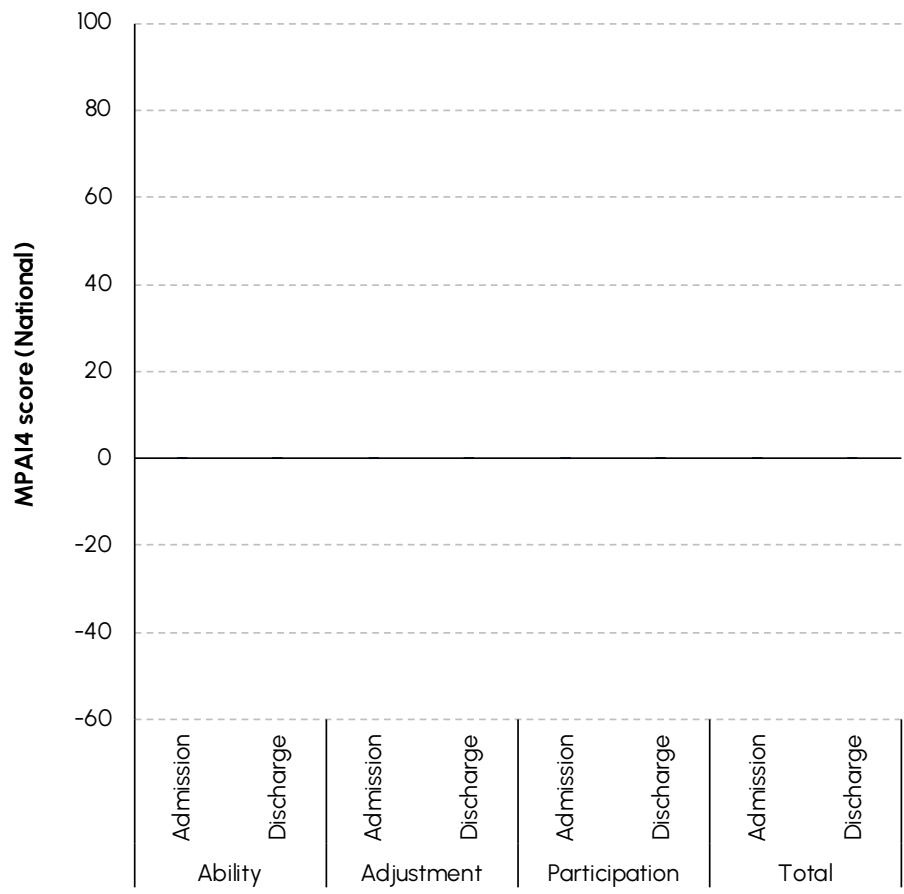
Average program length for episodes with submitted MPAI-4



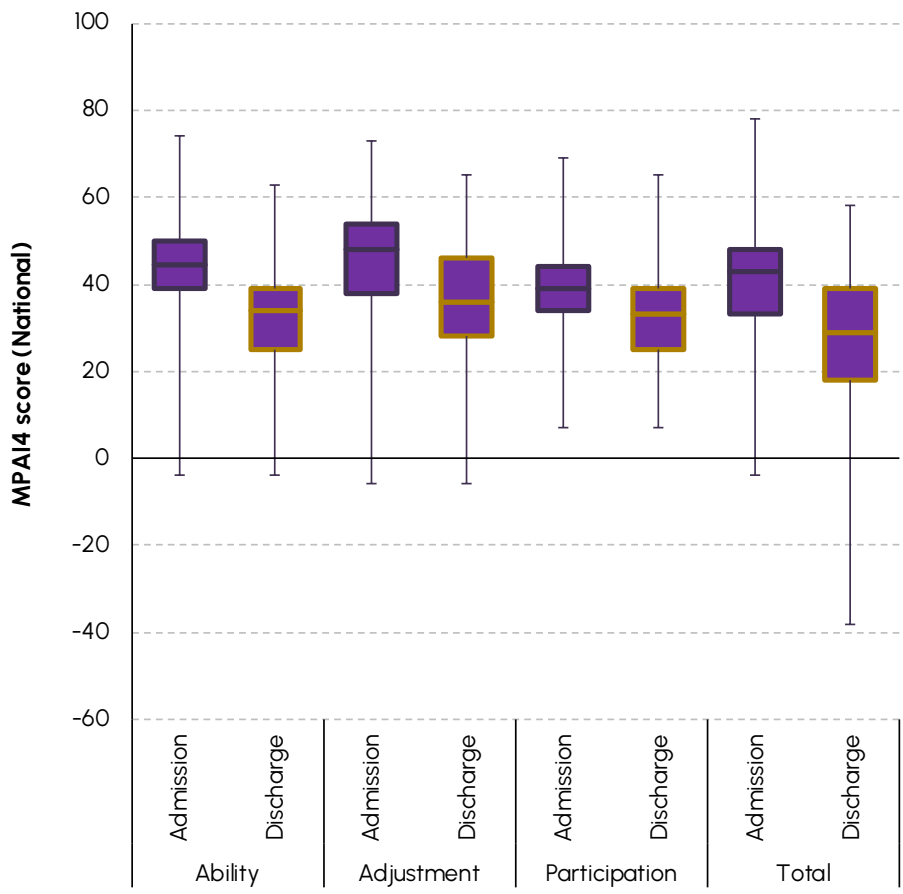
Admission and discharge T score distribution of spread by MPAI-4 index



Your Service 2022 (n<5)



All Ambulatory 2022 (n=84)

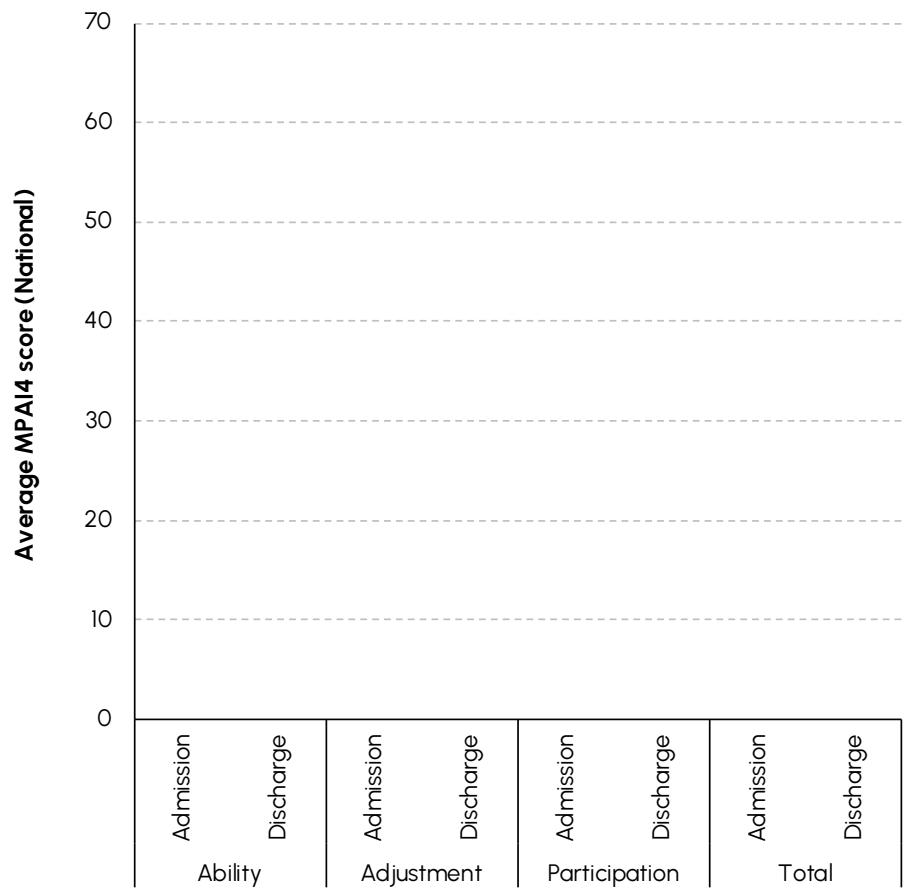


NOTE: To understand how to interpret these figures please refer to Appendix 3

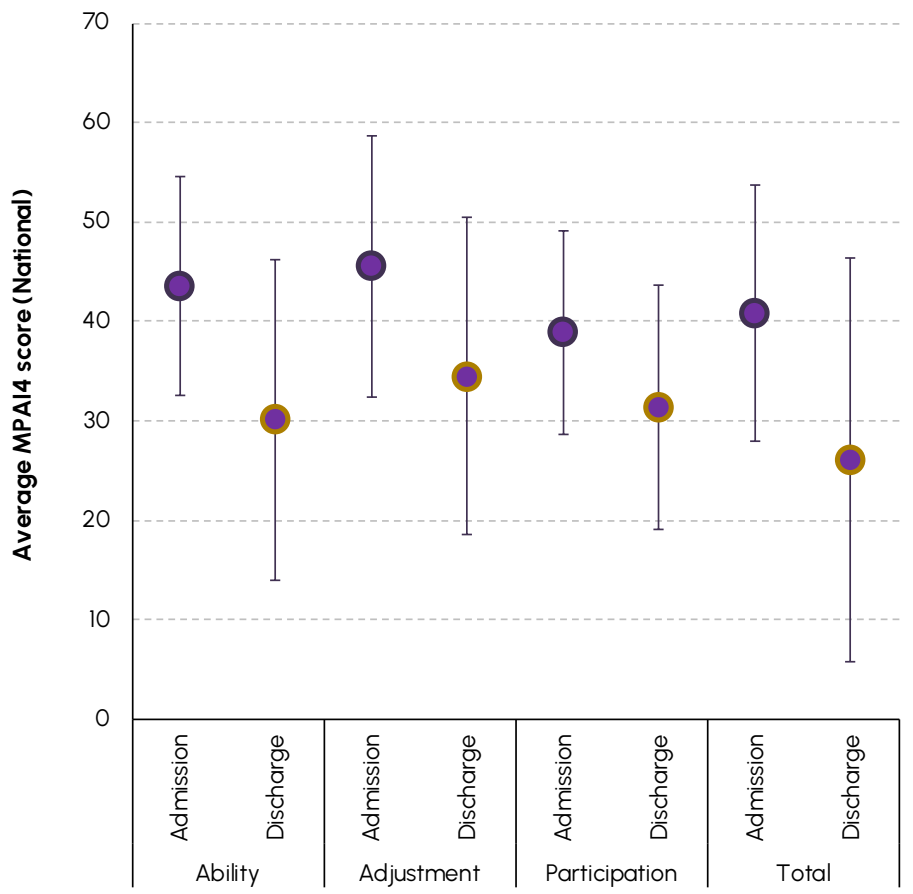
Admission and discharge average T score by MPAI-4 index



Your Service 2022 (n<5)



All Ambulatory 2022 (n=84)



Appendix 1: The Australian Modified Lawton's



- The Australian Modified Lawton's represents a sensitive measure of the outcome of ambulatory rehabilitation as it relates to instrumental tasks, such as a patient's ability to do their own shopping, cleaning, cooking, manage their finances, skills that demonstrate their independence in the wider context.
- In general most participants in ambulatory care have already demonstrated a degree of functional independence, thus a straight ADL tool (such as the FIM), is not an appropriate outcome measure in this setting.
- The Lawton's tool is quick and easy to administer, requires minimal training, and is not discipline or impairment specific.
- The Lawton's is endorsed by AFRM as the over-arching ambulatory benchmarking outcome tool of choice.
- It has demonstrated validity and reliability in measurement of outcomes Green J, Eagar K, Owen A, Gordon R and Quinsey K (2006). Towards a Measure of Function for Home and Community Care Services in Australia: Part II - Evaluation of the Screening Tool and Assessment Instruments. Australian Journal of Primary Health 12 (1), 82-90.
- The Lawton's is not suggested to replace any service or impairment specific outcome measures that services may already collect or are considering collecting, but to provide a platform from which to launch a national benchmarking program with the expectation of further development over time.

Appendix 2: Definition of terms



ADL

Activities of daily living describe a person's level of functioning in basic physical activities such as bathing, dressing, transferring, toileting, continence, eating, and walking.

AROC Version 4 data set

The version 4 (V4) AROC dataset was introduced on 1 July 2012. V4 was designed as a bank of data items, combinations of which are used to describe 4 possible pathways of care (see the AROC website for more information about the different pathways). Version 4.1 was released on 1 July 2017 and introduced new ambulatory data items which are used in this report. NOTE: This report utilises only Pathway 4 data (ambulatory care).

COVID-19

The impact of COVID-19 on ambulatory rehabilitation following temporary suspension of elective surgeries, service re-locations and closures, and fewer traumatic accidents was a 10% decline in the number of ambulatory rehabilitation episodes in FY2022 compared to the years prior to COVID (adjusted for participating services).

The extent of the impact of COVID-19 on the demand for rehabilitation in both the inpatient or community rehabilitation is yet to be fully realised. To identify patients who have had COVID-19 in the AROC data set services were asked to enter "COVID-19" in the patient comment field for those patients whose primary diagnosis is COVID-19 related (e.g. reconditioning, ICU-acquired weakness) as well as those with a secondary diagnosis where admission to rehabilitation is linked to having had COVID-19 (e.g. community stroke admissions associated with a hyper-coagulable state secondary to COVID-19 disease). For those patients where COVID-19 was an 'incidental' condition this is not reported.

Appendix 2: Definition of terms



COVID-19 cont.

To enable comprehensive reporting of rehabilitation outcomes for these patients, the National COVID-19 rehabilitation adjunct data collection was created, in collaboration with the NSW Agency for Clinical Innovation's Rehabilitation Community of Practice. The potential sequelae of COVID-19 appear to be numerous, so the functional deficits of these patients that result in the need for rehabilitation can be quite varied. As such the national COVID-19 rehabilitation adjunct data collection covers all care settings – in-reach, inpatient and ambulatory – and services do not need to be an AROC member to participate. The national COVID-19 rehabilitation adjunct data collection is to be completed for **ALL** patients who have received a positive diagnosis of COVID-19 and are now participating in rehabilitation in any care setting. Where possible and appropriate, the National COVID-19 rehabilitation adjunct data will be linked with the AROC inpatient and/or ambulatory data collections.

This National COVID-19 rehabilitation adjunct data collection must be entered online at

<https://apps.ahsri.uow.edu.au/redcap/surveys/?s=DR4AE3FHAX>

All relevant data items must be known prior to commencing data entry as there is no save and resume function. For convenience a data collection form is provided as an optional mechanism to collect the data (available here

<https://apps.ahsri.uow.edu.au/downloads/CovidCollection.pdf>).

Days Seen

Days seen is the number of days within an episode of ambulatory rehabilitation on which an occasion of service has been provided.

Elapsed time (Length of Program)

The elapsed time describes the number of days from commencement to end of an ambulatory rehabilitation program. It is calculated as the episode end date minus the start date.

Appendix 2: Definition of terms

Episode

The program of ambulatory rehabilitation. A completed episode is one with a mode of episode end of discharge/case closure.

IADL

Instrumental activities of daily living (also known as extended or domestic activities of daily living), describe tasks that enable a person to live independently in the community and include, but not are limited to, light housework, preparing meals, taking medications, shopping for groceries, using the telephone, and managing money.

Occasions of Service (OOS)

An occasion of service is any therapy session and/or therapist contact within an episode. A patient may have several occasions of service on a 'day seen' and these may be delivered by the same or different staff type. Total occasions of service reflects the total number of therapy sessions provided to the patient during those visits. For example:

Mr Jones attends the program on Monday, Wednesday and Friday. On Monday he sees the physio and also attends hydrotherapy. On Wednesday he has a group exercise session, sees the OT and the speech pathologist. On Friday he sees the physio and attends hydrotherapy again. This program continues for 6 weeks. At week 7 his program is reviewed and he only needs to attend group exercise therapy and hydrotherapy twice a week until the program concludes at week 12.

The total number of days seen in this instance is $(3 \times 6) + (2 \times 6) = 30$

The total occasions of service in this instance is $(7 \times 6) + (4 \times 6) = 66$

Appendix 2: Definition of terms

Outcome Measure

The score recorded using the specified outcome measure at both the beginning and end of an ambulatory rehabilitation program.

Outcome Measure change

The calculated difference between the valid Outcome Measure score at the beginning and the end of the ambulatory rehabilitation episode.

Therapy type

Reflects the type of therapy the patient is receiving and is collected by staff type. Where a single staff type provides more than one therapy, e.g. hydrotherapy provided/supervised by a physiotherapist, the staff type selected should reflect the type of therapy session the patient is receiving.

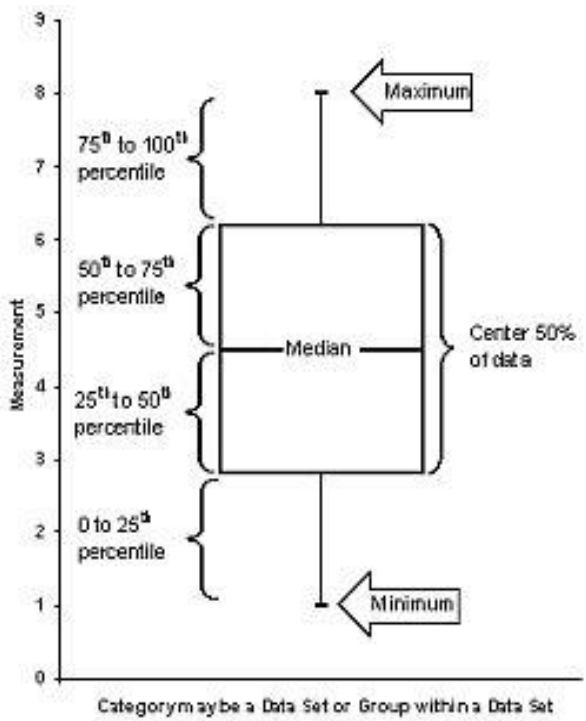
Valid Outcome Measure

A valid Outcome Measure requires all items within the scale to have a value assigned and be completed for both the episode begin and episode end assessments.

Appendix 3: Interpreting box plots

Box Plots

Box plots, or box-and-whisker plots, provide insight into the distribution of observations within a data set by dividing it into four sections. The box indicates the spread of the central 50% of the data; the median is denoted by a horizontal line through the box. The portion of the box above the median line denotes the 50th - 75th percentile range. Likewise, the portion of the box below the median denotes the 25th-50th percentile range. The whiskers represent the full range of data, the whisker above the box extends to the maximum data value and the whisker below the box extends to the minimum data value.



Appendix 4: AROC Impairment Codes

STROKE

Haemorrhagic

- 1.11 Left body involvement
- 1.12 Right body involvement
- 1.13 Bilateral involvement
- 1.14 No paresis
- 1.19 Other Orthopaedic fractures

Ischaemic

- 1.21 Left body involvement (right brain)
- 1.22 Right body involvement (left brain)
- 1.23 Bilateral involvement
- 1.24 No paresis
- 1.29 Other Orthopaedic fractures

BRAIN DYSFUNCTION

Non-traumatic

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

Traumatic

- 2.21 Open injury
- 2.22 Closed injury

NEUROLOGICAL CONDITIONS

- 3.1 Multiple Sclerosis
- 3.2 Parkinsonism
- 3.3 Polyneuropathy
- 3.4 Guillian-Barre
- 3.5 Cerebral palsy
- 3.8 Neuromuscular disorders
- 3.9 Other neurological conditions

SPINAL CORD DYSFUNCTION

Non traumatic spinal cord dysfunction

- 4.111 Paraplegia, incomplete
- 4.112 Paraplegia, complete
- 4.1211 Quadriplegia, incomplete C1-4
- 4.1212 Quadriplegia, incomplete C5-8
- 4.1221 Quadriplegia, complete C1-4
- 4.1222 Quadriplegia, complete C5-8
- 4.13 Other non-traumatic spinal cord dysfunction

Traumatic spinal cord dysfunction

- 4.211 Paraplegia, incomplete
- 4.212 Paraplegia, complete
- 4.2211 Quadriplegia, incomplete C1-4
- 4.2212 Quadriplegia, incomplete C5-8
- 4.2221 Quadriplegia, complete C1-4
- 4.2222 Quadriplegia, complete C5-8
- 4.23 Other traumatic spinal cord dysfunction

AMPUTATION OF LIMB

Not resulting from trauma

- 5.11 Single upper above elbow
- 5.12 Single upper below elbow
- 5.13 Single lower above knee (includes through knee)
- 5.14 Single lower below knee
- 5.15 Double lower above knee (includes through knee)
- 5.16 Double lower above/below knee
- 5.17 Double lower below knee
- 5.18 Partial foot (single or double)
- 5.19 Other amputation not from trauma

AMPUTATION OF LIMB

Resulting from trauma

- 5.21 Single upper above elbow
- 5.22 Single upper below elbow
- 5.23 Single lower above knee (includes through knee)
- 5.24 Single lower below knee
- 5.25 Double lower above knee (includes through knee)
- 5.26 Double lower above/below knee
- 5.27 Double lower below knee
- 5.28 Partial foot (single or double)
- 5.29 Other amputation from trauma

ARTHRITIS

- 6.1 Rheumatoid arthritis
- 6.2 Osteoarthritis
- 6.9 Other arthritis

PAIN SYNDROMES

- 7.1 Neck pain
- 7.2 Back Pain
- 7.3 Extremity pain
- 7.4 Headache (includes migraine)
- 7.5 Multi-site pain
- 7.9 Other pain (includes abdo/chest wall)

Appendix 4: AROC Impairment Codes

ORTHOPAEDIC CONDITIONS

Fractures (includes dislocation)

- 8.111 Fracture of hip, unilateral (incl. #NOF)
- 8.112 Fracture of hip, bilateral (incl. #NOF)
- 8.12 Fracture of shaft of femur
- 8.13 Fracture of pelvis
- 8.141 Fracture of knee
- 8.142 Fracture of lower leg, ankle, foot
- 8.15 Fracture of upper limb
- 8.16 Fracture of spine
- 8.17 Fracture of multiple sites
- 8.19 Other orthopaedic fracture

Post Orthopaedic Surgery

- 8.211 Unilateral hip replacement
- 8.212 Bilateral hip replacement
- 8.221 Unilateral knee replacement
- 8.222 Bilateral knee replacement
- 8.231 Knee and hip replacement, same side
- 8.232 Knee and hip replacement, diff sides
- 8.24 Shoulder replacement
- 8.25 Post spinal surgery
- 8.26 Other orthopaedic surgery

Soft tissue injury

- 8.3 Soft tissue injury

CARDIAC

- 9.1 Following recent onset of new cardiac impairment
- 9.2 Chronic cardiac insufficiency
- 9.3 Heart and heart/lung transplant

PULMONARY

- 10.1 Chronic obstructive pulmonary disease
- 10.2 Lung transplant
- 10.9 Other pulmonary

BURNS

- 11 Burns

CONGENITAL DEFORMITIES

- 12.1 Spina bifida
- 12.9 Other congenital deformity

OTHER DISABLING IMPAIRMENTS

- 13.1 Lymphoedema
- 13.3 Conversion disorder
- 13.9 Other disabling impairments that cannot be classified into a specific group

MAJOR MULTIPLE TRAUMA

- 14.1 Brain + spinal cord injury
- 14.2 Brain + multiple fracture/amputation
- 14.3 Spinal cord + multi fracture/amputation
- 14.9 Other multiple trauma

DEVELOPMENTAL DISABILITIES

- 15.1 Developmental disabilities (excludes cerebral palsy)

RE-CONDITIONING/RESTORATIVE

- 16.1 Reconditioning following surgery
- 16.2 Reconditioning following medical illness
- 16.3 Cancer rehabilitation

COVID-19 CONDITIONS

- 18.1 COVID-19 with pulmonary issues
- 18.2 COVID-19 with deconditioning
- 18.9 COVID-19 all other

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