

AROC Ambulatory Report

January 2024 – December 2024

Anywhere Hospital



**Australasian
Faculty of
Rehabilitation
Medicine**



**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)

In development – V5 Ambulatory Data Set



We are excited to advise that we are revising the ambulatory data set, moving to an AROC impairment group specific model for outcome measures and will also include some person reported measures.

In the coming months we will be reaching out to ambulatory services to identify outcome measures currently used by your service and ask for nomination for consultation groups.

If you would like to receive regular email correspondence on the development of the dataset and how to participate, please email AROC at aroc@uow.edu.au

- 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	15
February	14
March	29
April	17
May	26
June	14
July	15
August	12
September	12
October	22
November	10
December	12
Full year	198

Completeness of data reported

AROC core data set items	Item collected	
	No.	%
Path	198	100.0
Facility code	198	100.0
Facility name	198	100.0
Ward code ¹	169	85.4
Ward name ¹	154	77.8
MRN	198	100.0
Letters of name	197	99.5
Date of birth	198	100.0
DOB estimate flag	198	100.0
Sex	198	100.0
Indigenous status	197	99.5
Geographical residence	198	100.0
Postcode	198	100.0
Episode begin date	198	100.0
Episode end date	198	100.0
Funding source	198	100.0
Health fund/other payer	100	98.0
NDIS	174	87.9
Referral date	197	99.5
Impairment code	198	100.0
Onset date &/or time since onset	196	99.0
Relevant inpatient episode date	193	97.5
Episode begin reason	198	100.0
First direct care episode	198	100.0
Interpreter required	198	100.0
Date of multi-disciplinary rehab plan	192	97.0
Accommodation prior to episode	198	100.0
Carer status prior to episode	196	99.5
Employment status prior to episode	193	97.5
Accommodation during episode	195	98.5
Carer status during episode	190	100.0
Existing comorbidity interfering with rehab	197	99.5
— Comorbidities identified	60	100.0

AROC core data set items	Item collected	
	No.	%
Cognitive impairment impacting rehab	197	99.5
Episode end reason	198	100.0
Final accommodation – episode end	191	100.0
Carer status – episode end	188	99.5
Employment status after discharge	54	27.3 ←
Return to pre-impairment activities	190	96.0
Days seen	190	96.0
Occasions of service	190	96.0
Disciplines involved in therapy	195	98.5
Lawton's start date	188	94.9
Lawton's start items	193	97.5
Lawton's end date	181	91.4
Lawton's end items	184	92.9
GAS start date ¹	2	1.0
GAS start scores ¹	12	6.1
GAS end date ¹	3	1.5
GAS end scores ¹	12	6.1

Impairment specific items

Stroke	59	
— Rehab aimed at upper limb function	40	67.8 ←
— Rehab aimed at gait retraining	41	69.5 ←
— Rehab aimed at aphasia	37	62.7 ←
— ULMAS start date	9	69.2 ←
— ULMAS start scores	8	61.5 ←
— ULMAS end date	8	61.5 ←
— ULMAS end scores	8	61.5 ←
— Timed ten metre walk start date	10	52.6 ←
— Timed ten metre walk test on admission	12	63.2 ←
— Timed ten metre walk end date	9	47.4 ←
— Timed ten metre walk test on discharge	11	57.9 ←

AROC impairment specific items	Item collected	
	No.	%
Brain injury*	7	
— MPAI4 start date	5	71.4 ←
— MPAI4 start scores	7	100.0
— MPAI4 end date	5	71.4 ←
— MPAI4 end scores	7	100.0
Spinal cord injury*	2	
— Injury start level	2	100.0
Reconditioning	10	
— DEMMI start date	7	70.0 ←
— DEMMI start scores	7	70.0 ←
— DEMMI end date	5	50.0 ←
— DEMMI end scores	5	50.0 ←
Amputation of limb	3	
— Phase of care at episode start	3	100.0
— Phase of care during episode	3	100.0
— Phase of care at episode end	3	100.0
— Prosthetic device fitted	3	100.0
— Casting date ²	3	100.0
— Date of first prosthetic fitting ²	3	100.0
— Reason for delay in fitting ²	2	66.7
— Timed up and go test	3	100.0
— Six min walk test ¹	3	100.0
— Ten metre walk test ¹	3	100.0

Orthopaedic conditions	92	
— Timed ten metre walk start date	72	78.3 ←
— Timed ten metre walk test on admission	64	69.6 ←
— Timed ten metre walk end date	72	80.9 ←
— Timed ten metre walk test on discharge	70	78.7 ←

*Also includes MMT that contain this impairment

Overall data completeness score **87.4**

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.

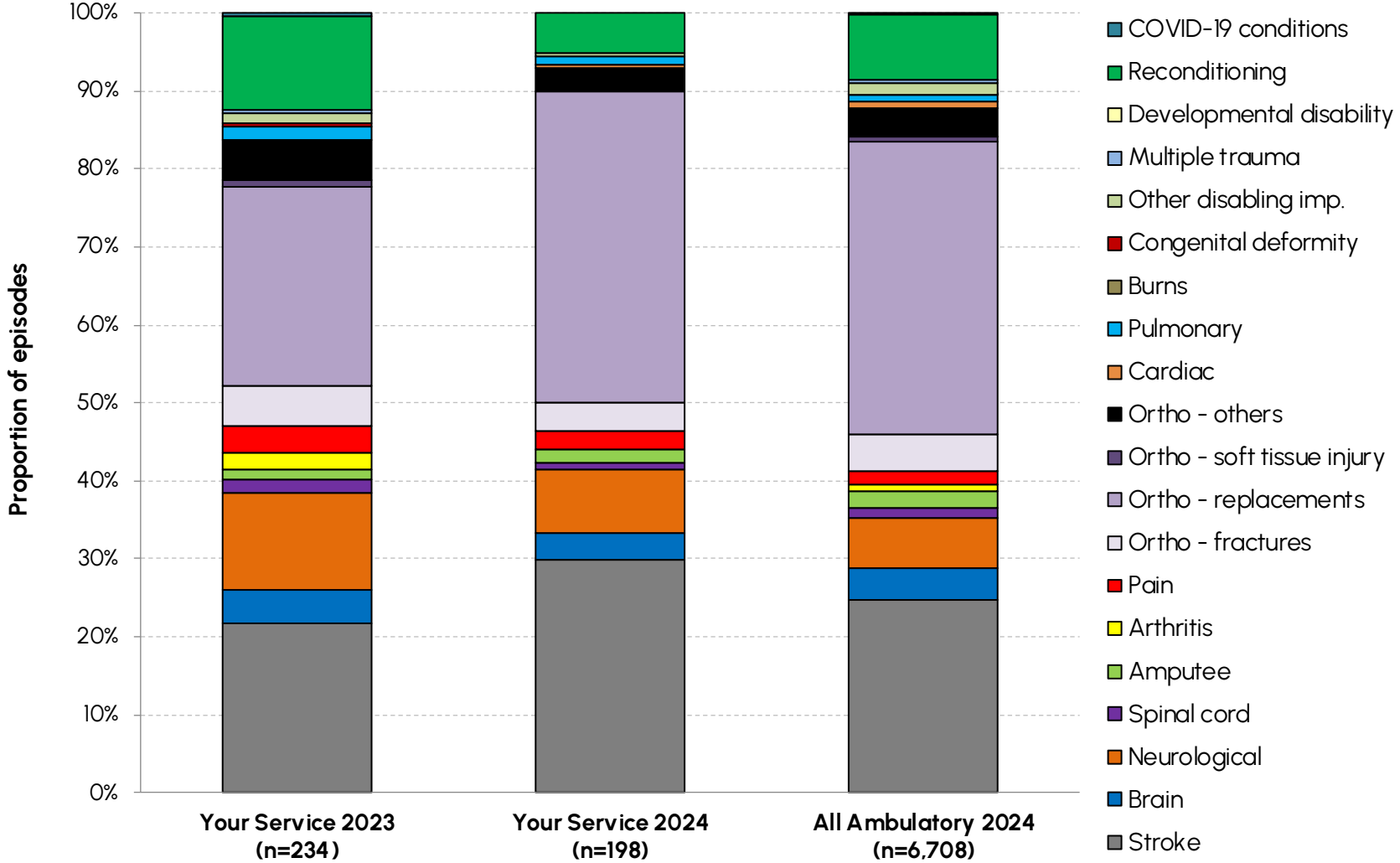
Such data are useful to provide context to the more detailed analysis of rehabilitation outcomes, but in themselves are not impacted by clinical practice.

Distribution of services and episodes

	Public		Private		All Ambulatory	
	No.	%	No.	%	No.	%
Facilities						
New South Wales	4	12.9	10	32.3	14	45.2
Victoria	0	—	0	—	0	—
Queensland	1	3.2	3	9.7	4	12.9
South Australia	8	25.8	0	—	8	25.8
Western Australia	1	3.2	1	3.2	2	6.5
Tasmania	0	—	0	—	0	—
Australian territories	0	—	1	3.2	1	3.2
NZ	2	6.5			2	6.5
Total	16	51.6	15	48.4	31	100.0

Episodes						
New South Wales	283	4.2	2,358	35.1	2,641	39.3
Victoria	0	—	0	—	0	—
Queensland	482	7.2	434	6.5	916	13.6
South Australia	1,734	25.8	0	—	1,734	25.8
Western Australia	234	3.5	31	0.5	265	3.9
Tasmania	0	—	0	—	0	—
Australian territories	0	—	498	7.4	498	7.4
NZ	673	10.0			673	10.0
Total	3,406	50.6	3,321	49.4	6,727	100.0

Episodes by impairment group



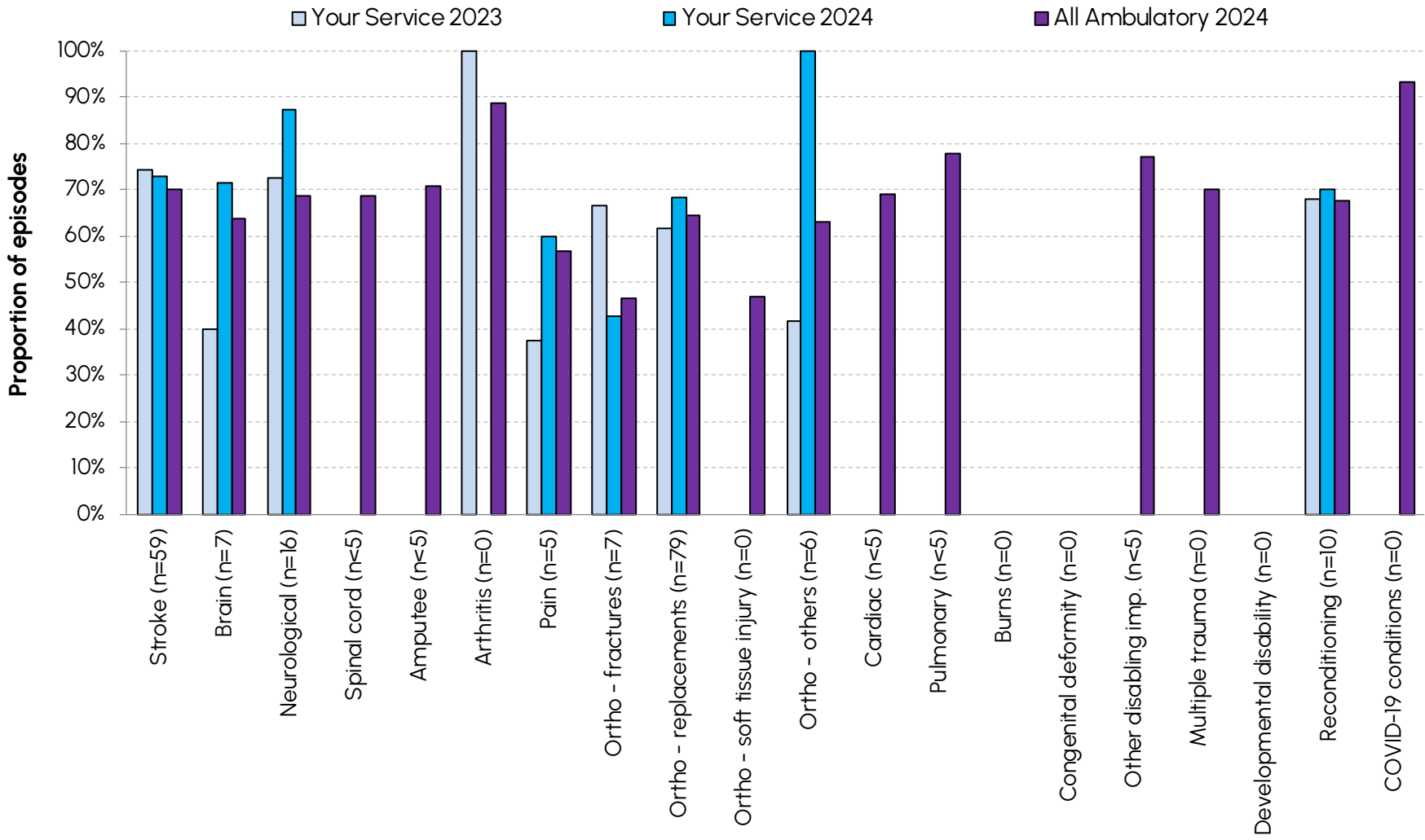
NOTE: For a full list of impairment codes please refer to Appendix 4

Episodes by impairment group

Impairment group	Your Service 2023		Your Service 2024		All Ambulatory 2024	
	No.	%	No.	%	No.	%
Stroke	51	21.8	59	29.8	1,656	24.7
Brain	10	4.3	7	3.5	282	4.2
Neurological	29	12.4	16	8.1	423	6.3
Spinal cord	4	1.7	2	1.0	86	1.3
Amputee	3	1.3	3	1.5	147	2.2
Arthritis	5	2.1	0	—	54	0.8
Pain	8	3.4	5	2.5	120	1.8
Ortho - fractures	12	5.1	7	3.5	313	4.7
Ortho - replacements	60	25.6	79	39.9	2,528	37.7
Ortho - soft tissue injury	2	0.9	0	—	34	0.5
Ortho - others	12	5.1	6	3.0	253	3.8
Cardiac	0	—	1	0.5	58	0.9
Pulmonary	4	1.7	2	1.0	50	0.7
Burns	0	—	0	—	0	—
Congenital deformity	1	0.4	0	—	1	0.0
Other disabling imp.	3	1.3	1	0.5	100	1.5
Multiple trauma	1	0.4	0	—	37	0.6
Developmental disability	0	—	0	—	0	—
Reconditioning	28	12.0	10	5.1	551	8.2
COVID-19 conditions	1	0.4	0	—	15	0.2
Missing or excluded	0		0		19	
All episodes	234	100.0	198	100.0	6,727	100.0

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

First direct care rehabilitation episode by impairment group



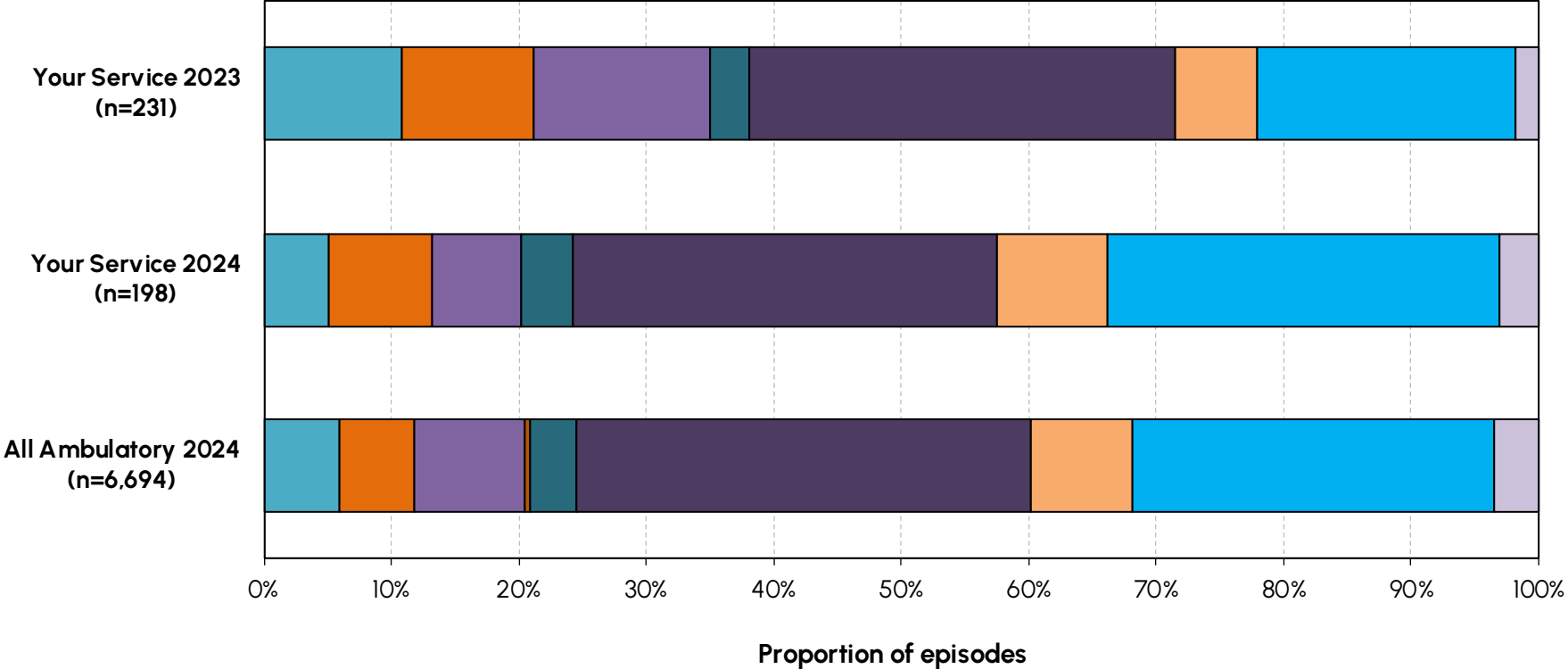
First direct care rehabilitation episode by impairment group

Impairment group	Your Service 2023				Your Service 2024				All Ambulatory 2024			
	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing
Stroke	51	38	12	1	59	43	16	0	1,656	1,161	489	6
Brain	10	4	6	0	7	5	2	0	282	180	95	7
Neurological	29	21	8	0	16	14	2	0	423	290	132	1
Spinal cord	4	1	3	0	2	1	1	0	86	59	27	0
Amputee	3	2	1	0	3	3	0	0	147	104	43	0
Arthritis	5	5	0	0	0	0	0	0	54	48	6	0
Pain	8	3	5	0	5	3	2	0	120	68	52	0
Ortho - fractures	12	8	4	0	7	3	4	0	313	146	167	0
Ortho - replacements	60	37	23	0	79	54	25	0	2,528	1,633	891	4
Ortho - soft tissue injury	2	2	0	0	0	0	0	0	34	16	18	0
Ortho - others	12	5	7	0	6	6	0	0	253	160	93	0
Cardiac	0	0	0	0	1	1	0	0	58	40	18	0
Pulmonary	4	3	1	0	2	2	0	0	50	39	11	0
Burns	0	0	0	0	0	0	0	0	0	0	0	0
Congenital deformity	1	0	1	0	0	0	0	0	1	1	0	0
Other disabling imp.	3	1	2	0	1	1	0	0	100	77	23	0
Multiple trauma	1	0	1	0	0	0	0	0	37	26	10	1
Developmental disability	0	0	0	0	0	0	0	0	0	0	0	0
Reconditioning	28	19	9	0	10	7	3	0	551	372	176	3
COVID-19 conditions	1	1	0	0	0	0	0	0	15	14	1	0
Missing or excluded	0				0				19			
All episodes	234	150	83	1	198	143	55	0	6,727	4,434	2,252	22

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

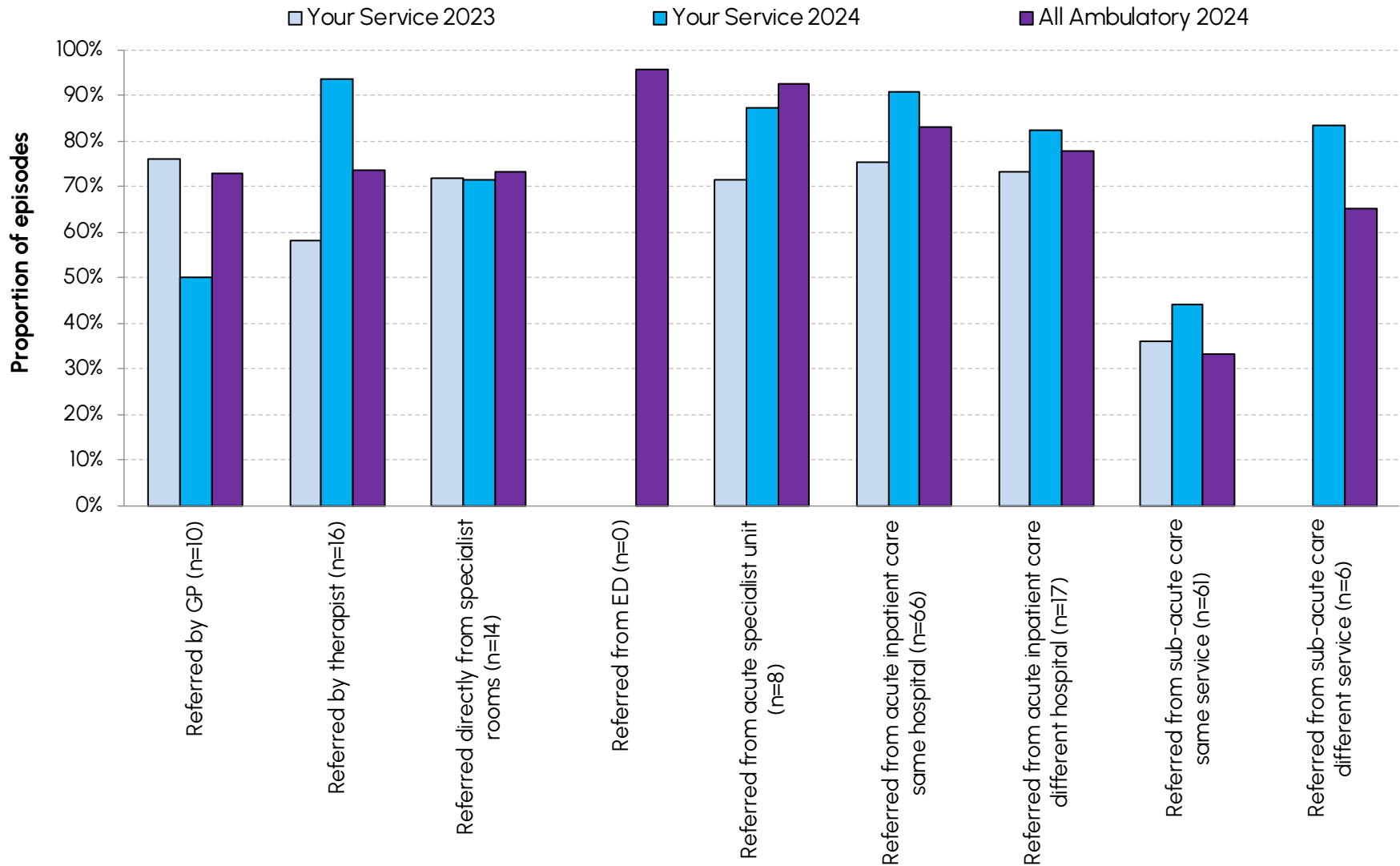


Episode source



Episode source	Your Service 2023		Your Service 2024		All Ambulatory 2024	
	No.	%	No.	%	No.	%
Referred by GP	25	10.8	10	5.1	392	5.9
Referred by therapist	24	10.4	16	8.1	399	6.0
Referred directly from specialist rooms	32	13.9	14	7.1	582	8.7
Referred from ED	0	—	0	—	23	0.3
Referred from acute specialist unit	7	3.0	8	4.0	245	3.7
Referred from acute inpatient care same hospital	77	33.3	66	33.3	2,385	35.6
Referred from acute inpatient care different hospital	15	6.5	17	8.6	532	7.9
Referred from sub-acute care same service	47	20.3	61	30.8	1,907	28.5
Referred from sub-acute care different service	4	1.7	6	3.0	229	3.4
Missing	3		0		33	
All episodes	234	100	198	100	6,727	100

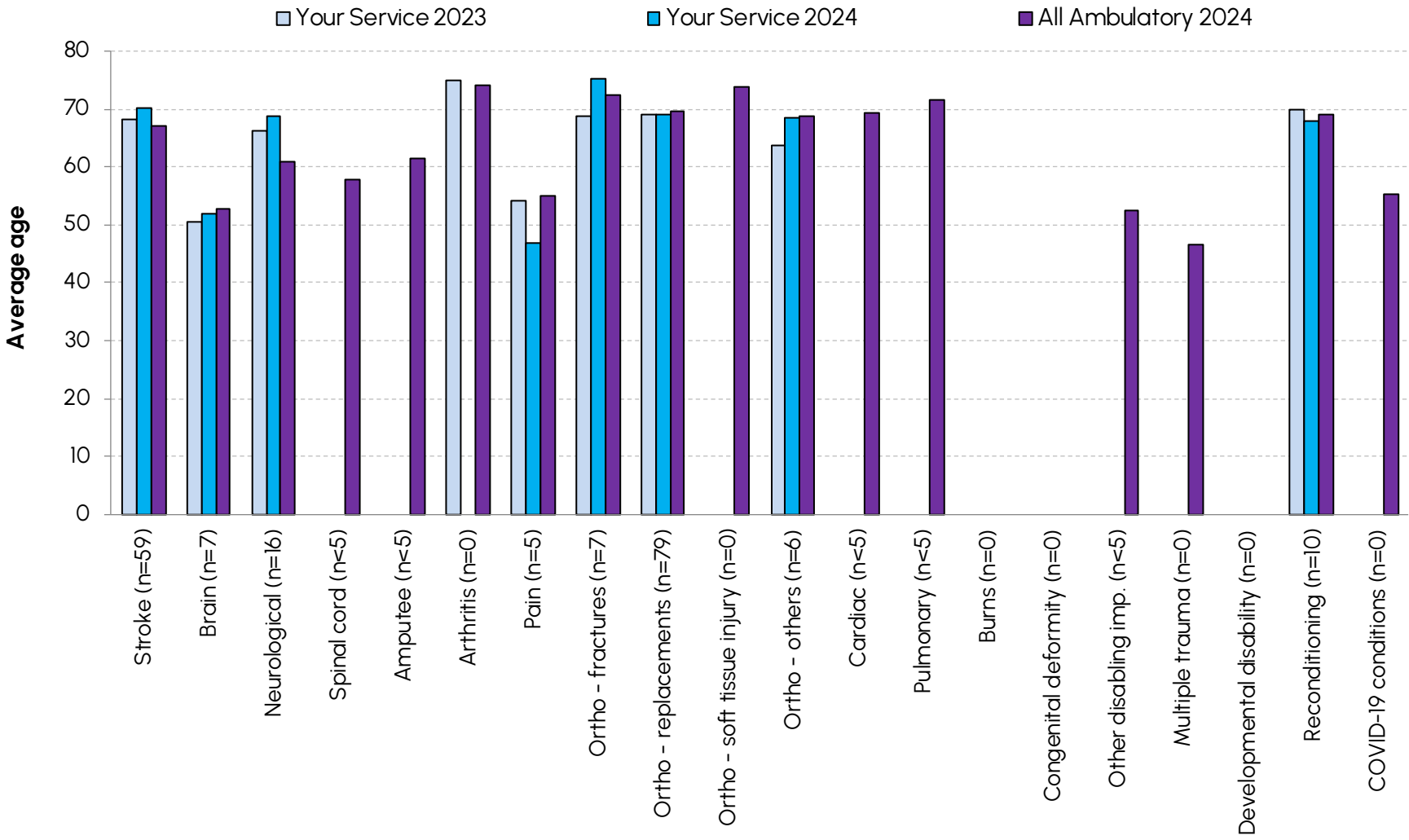
First direct care rehabilitation episode by episode source



First direct care rehabilitation episode by episode source

Impairment group	Your Service 2023				Your Service 2024				All Ambulatory 2024			
	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing
Referred by GP	25	19	6	0	10	5	5	0	392	286	105	1
Referred by therapist	24	14	10	0	16	15	1	0	399	294	104	1
Referred directly from specialist rooms	32	23	9	0	14	10	4	0	582	426	155	1
Referred from ED	0	0	0	0	0	0	0	0	23	22	1	0
Referred from acute specialist unit	7	5	2	0	8	7	1	0	245	227	18	0
Referred from acute inpatient care same hospital	77	58	19	0	66	60	6	0	2,385	1,986	397	2
Referred from acute inpatient care different hospital	15	11	4	0	17	14	3	0	532	415	117	0
Referred from sub-acute care same service	47	17	30	0	61	27	34	0	1,907	632	1,274	1
Referred from sub-acute care different service	4	1	3	0	6	5	1	0	229	149	79	1
Missing	3	2	0	1	0	0	0	0	33	8	7	18
All episodes	234	150	83	1	198	143	55	0	6,727	4,445	2,257	25

Age by impairment group



Age by impairment group

Impairment group	Your Service 2023			Your Service 2024			All Ambulatory 2024		
	No.	Mean age	(95% CI)	No.	Mean age	(95% CI)	No.	Mean age	(95% CI)
Stroke	51	68.1	(64.3 – 71.9)	59	70.0	(67.3 – 72.7)	1,648	67.2	(66.5 – 67.9)
Brain	10	50.5	(40.2 – 60.8)	7	52.0	(41.7 – 62.3)	282	52.8	(50.8 – 54.8)
Neurological	28	66.4	(61.3 – 71.4)	16	68.8	(60.8 – 76.7)	423	61.0	(59.5 – 62.5)
Spinal cord	4	63.5	(52.6 – 74.4)	2	33.0	(27.1 – 38.9)	86	57.8	(54.5 – 61.1)
Amputee	3	59.7	(45.1 – 74.2)	3	54.7	(33.5 – 75.8)	147	61.4	(59.6 – 63.3)
Arthritis	5	75.0	(69.6 – 80.4)	0	—		54	73.9	(71.2 – 76.7)
Pain	8	54.1	(41.8 – 66.5)	5	46.8	(27.1 – 66.5)	120	54.9	(51.4 – 58.3)
Ortho - fractures	12	68.7	(59.0 – 78.3)	7	75.1	(64.2 – 86.1)	313	72.5	(70.9 – 74.1)
Ortho - replacements	60	69.0	(66.6 – 71.3)	79	69.1	(66.6 – 71.5)	2,527	69.5	(69.1 – 69.8)
Ortho - soft tissue injury	2	78.5	(75.6 – 81.4)	0	—		34	73.9	(68.1 – 79.8)
Ortho - others	12	63.6	(57.4 – 69.8)	6	68.5	(57.8 – 79.2)	253	68.7	(67.1 – 70.4)
Cardiac	0	—		1	23.0		58	69.3	(65.7 – 73.0)
Pulmonary	4	70.0	(58.8 – 81.2)	2	73.0	(67.1 – 78.9)	50	71.4	(68.2 – 74.7)
Burns	0	—		0	—		0	—	
Congenital deformity	1	64.0		0	—		1	—	
Other disabling imp.	3	74.3	(64.1 – 84.6)	1	47.0		100	52.5	(48.8 – 56.3)
Multiple trauma	1	21.0		0	—		37	46.5	(39.9 – 53.2)
Developmental disability	0	—		0	—		0	—	
Reconditioning	28	69.9	(63.7 – 76.0)	10	67.8	(60.0 – 75.6)	551	68.9	(67.7 – 70.1)
COVID-19 conditions	1	32.0		0	—		15	55.3	(46.3 – 64.3)
Missing or excluded	2			0			43		
All episodes	234	66.7	(64.9 – 68.5)	198	67.4	(65.5 – 69.3)	6,727	66.8	(66.5 – 67.1)

NDIS funding status at episode end

Episode source	Your Service 2023		Your Service 2024		All Ambulatory 2024 (AU)	
	No.	%	No.	%	No.	%
Accepted - on a plan	9	4.1	8	4.6	216	3.6
Accepted - waiting	1	0.5	2	1.1	41	0.7
Awaiting eligibility determination	8	3.6	3	1.7	174	2.9
Eligible - hasn't applied	7	3.2	5	2.9	214	3.6
Eligible - NDIS not yet available in the region	0	—	1	0.6	8	0.1
Not eligible / not relevant	195	88.6	155	89.1	5,349	89.1
Missing	14		24		52	
All episodes (AU)	234		198		6,054	

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	Neuro-psychologist	Other Staff Type
Impairment group														
Stroke (n=57)	86.0	1.8	84.2	28.1	35.1	7.0	15.8	1.8	31.6	28.1	14.0	10.5	5.3	26.3
Brain (n=7)	57.1	0.0	100.0	42.9	0.0	57.1	0.0	0.0	71.4	57.1	0.0	42.9	14.3	57.1
Neurological (n=16)	87.5	12.5	87.5	43.8	50.0	6.3	6.3	0.0	37.5	31.3	12.5	0.0	0.0	43.8
Spinal cord (n=2)	50.0	0.0	50.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Amputee (n=3)	100.0	0.0	33.3	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7
Arthritis (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pain (n=5)	100.0	0.0	100.0	0.0	20.0	40.0	0.0	0.0	0.0	0.0	40.0	60.0	0.0	0.0
Ortho - fractures (n=7)	114.3	14.3	71.4	14.3	14.3	71.4	0.0	0.0	0.0	42.9	28.6	0.0	0.0	42.9
Ortho - replacements (n=79)	94.9	48.1	74.7	38.0	39.2	16.5	6.3	6.3	0.0	1.3	10.1	2.5	1.3	8.9
Ortho - soft tissue injury (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ortho - others (n=6)	100.0	50.0	83.3	16.7	0.0	33.3	0.0	0.0	0.0	0.0	16.7	0.0	0.0	0.0
Cardiac (n=1)	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pulmonary (n=2)	100.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	50.0	100.0	0.0	0.0	50.0
Burns (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congenital deformity (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other disabling imp. (n=1)	200.0	0.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0
Multiple trauma (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Developmental disability (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Reconditioning (n=9)	111.1	11.1	66.7	55.6	33.3	22.2	11.1	0.0	33.3	0.0	22.2	0.0	0.0	11.1
COVID- 19 conditions (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

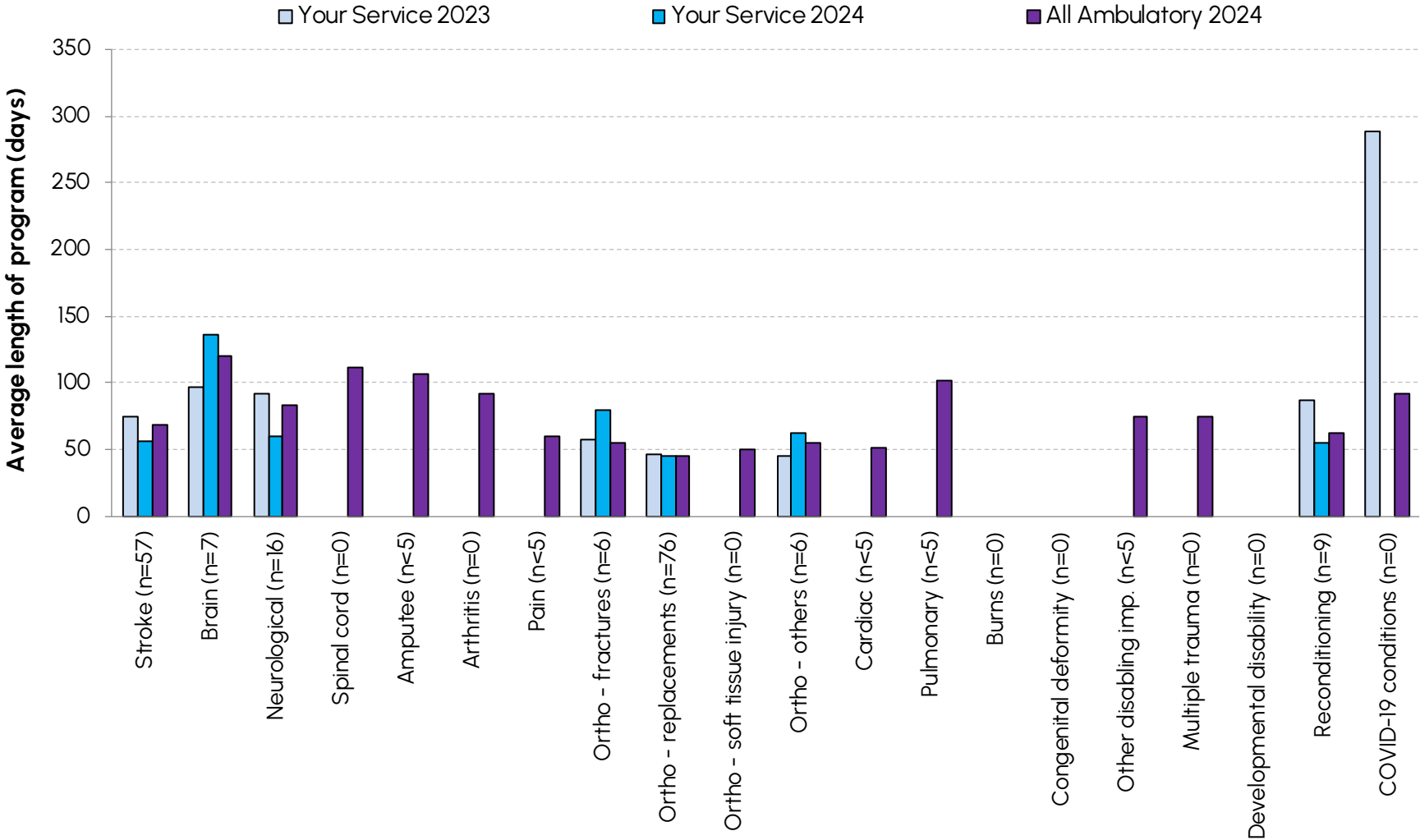
Outcome measures – All impairments



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

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

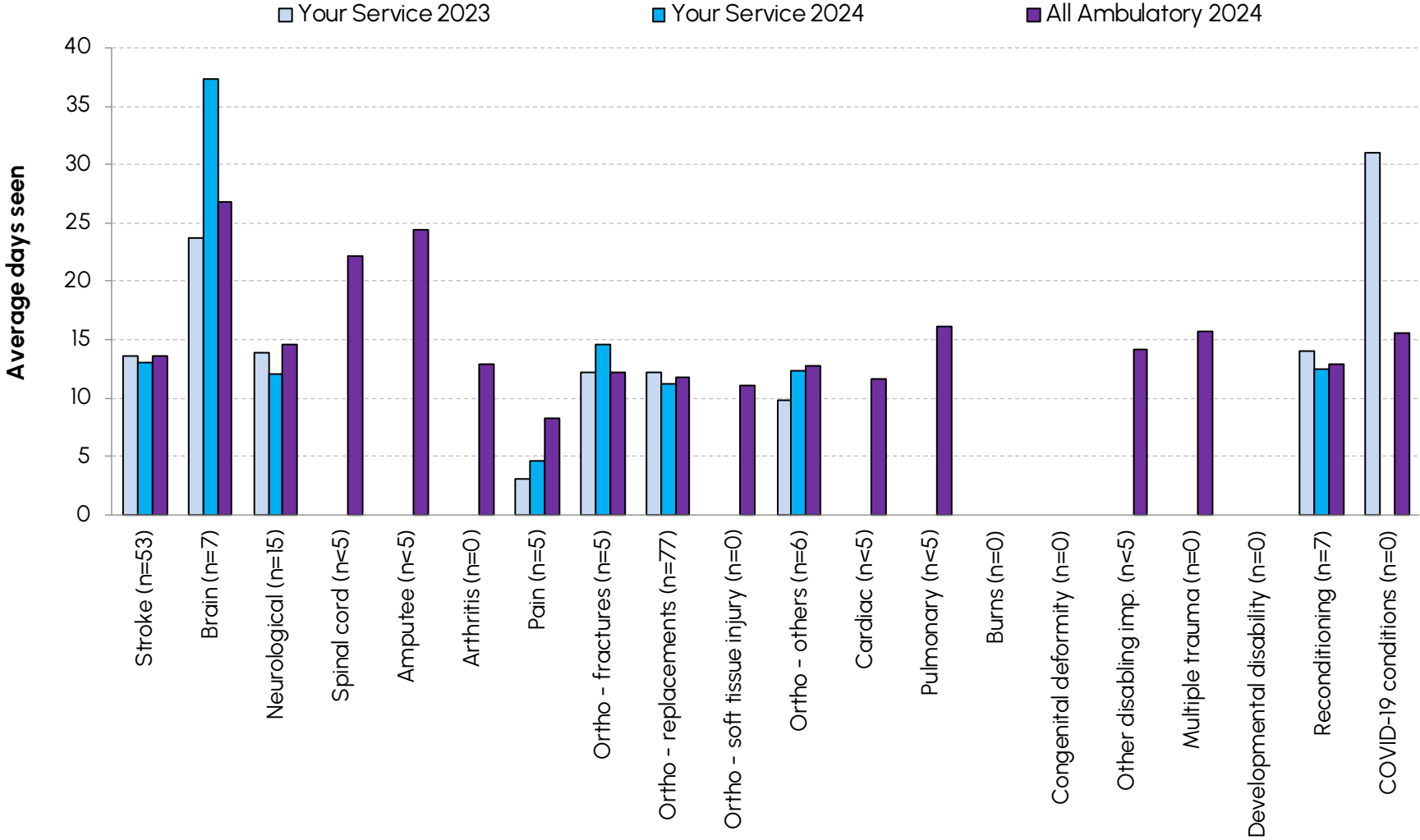
Length of program by impairment group



Length of program by impairment group

Impairment group	Your Service 2023			Your Service 2024			All Ambulatory 2024		
	No.	Mean LOP	Trimmed data range*	No.	Mean LOP	Trimmed data range*	No.	Mean LOP	Trimmed data range*
Stroke	49	74.9	(18 – 178)	57	56.5	(14 – 154)	1,565	68.1	(15 – 166)
Brain	9	96.9		7	135.9		256	120.6	(23 – 266)
Neurological	27	91.6	(37 – 216)	16	59.9		402	82.7	(23 – 194)
Spinal cord	4	—		0	—		63	111.7	(35 – 347)
Amputee	3	—		3	—		126	106.1	(16 – 235)
Arthritis	4	—		0	—		46	92.3	(37 – 182)
Pain	1	—		2	—		79	60.3	(15 – 155)
Ortho - fractures	11	57.1		6	79.0		295	54.5	(19 – 104)
Ortho - replacements	58	46.8	(26 – 105)	76	44.7	(23 – 98)	2,466	45.4	(21 – 85)
Ortho - soft tissue injury	2	—		0	—		32	49.5	(23 – 119)
Ortho - others	11	45.3		6	62.7		244	54.8	(21 – 114)
Cardiac	0	—		1	—		51	51.8	(23 – 133)
Pulmonary	4	—		2	—		48	102.1	(24 – 168)
Burns	0	—		0	—		0	—	
Congenital deformity	1	—		0	—		1	—	
Other disabling imp.	2	—		1	—		97	74.5	(31 – 169)
Multiple trauma	1	—		0	—		34	75.0	(26 – 196)
Developmental disability	0	—		0	—		0	—	
Reconditioning	25	86.8	(34 – 275)	9	55.4		515	62.2	(21 – 138)
COVID-19 conditions	1	—		0	—		15	91.9	
Missing or excluded	22			12			407		
All episodes	234	72.3	(20 – 187)	198	57.1	(21 – 126)	6,727	62.8	(20 – 159)

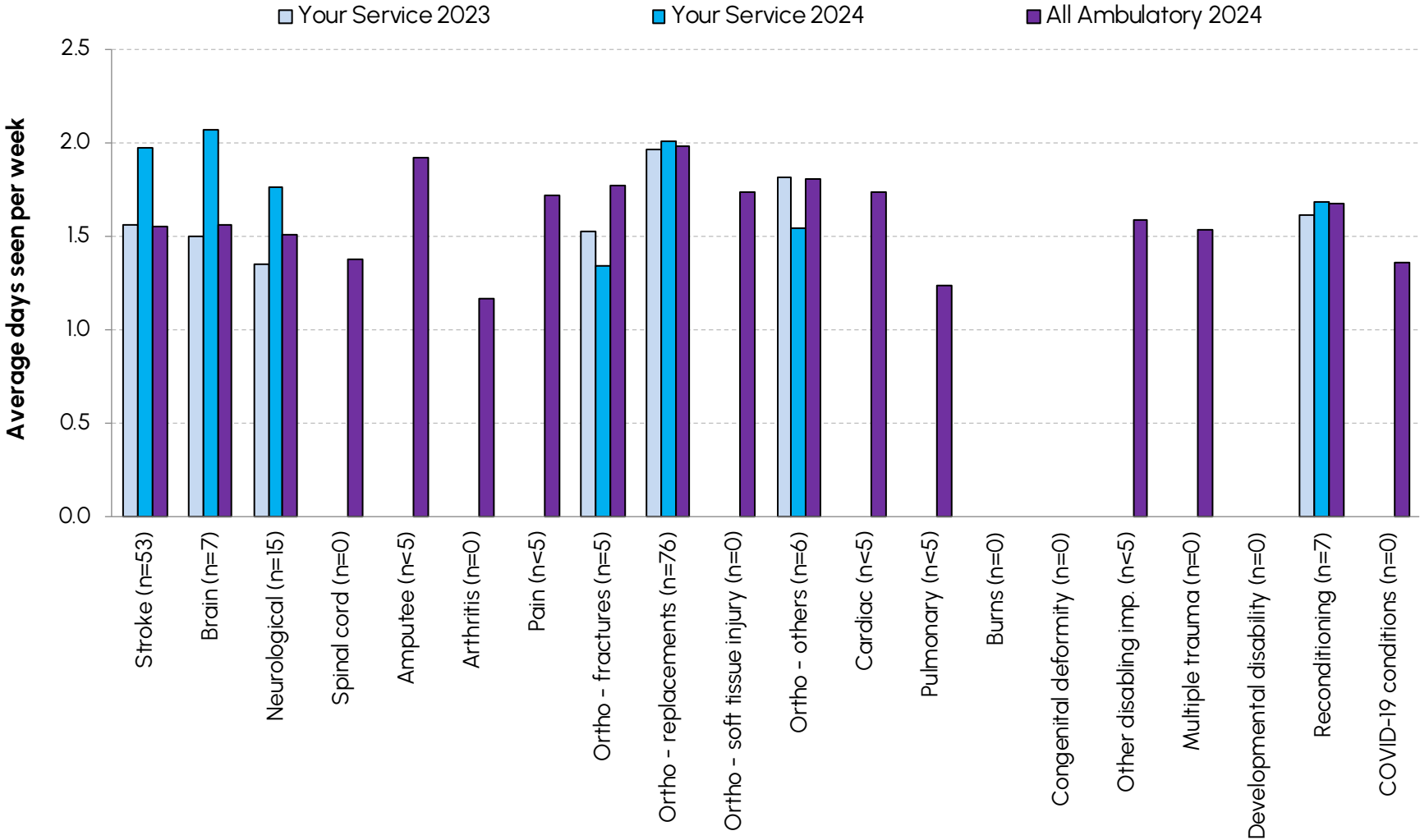
Days seen by impairment group



Days seen by impairment group

Impairment group	Your Service 2023			Your Service 2024			All Ambulatory 2024		
	No.	Mean days seen	Trimmed data range*	No.	Mean days seen	Trimmed data range*	No.	Mean days seen	Trimmed data range*
Stroke	50	13.6	(2 – 31)	53	13.0	(4 – 33)	1,541	13.6	(2 – 34)
Brain	8	23.8		7	37.3		238	26.7	(4 – 81)
Neurological	27	13.9	(4 – 24)	15	12.1		395	14.5	(3 – 32)
Spinal cord	4	—		1	—		77	22.1	(6 – 66)
Amputee	3	—		3	—		119	24.3	(3 – 59)
Arthritis	4	—		0	—		50	12.8	(5 – 23)
Pain	8	3.0		5	4.6		118	8.3	(1 – 25)
Ortho - fractures	11	12.2		5	14.6		288	12.2	(4 – 22)
Ortho - replacements	58	12.2	(6 – 21)	77	11.2	(5 – 19)	2,500	11.7	(6 – 20)
Ortho - soft tissue injury	2	—		0	—		33	11.1	(4 – 20)
Ortho - others	12	9.8		6	12.3		245	12.8	(4 – 22)
Cardiac	0	—		1	—		52	11.6	(2 – 26)
Pulmonary	4	—		2	—		50	16.2	(4 – 29)
Burns	0	—		0	—		0	—	
Congenital deformity	1	—		0	—		1	—	
Other disabling imp.	2	—		1	—		94	14.1	(4 – 25)
Multiple trauma	1	—		0	—		32	15.7	(6 – 34)
Developmental disability	0	—		0	—		0	—	
Reconditioning	23	14.0	(8 – 27)	7	12.4		488	12.8	(4 – 24)
COVID-19 conditions	1	—		0	—		15	15.6	
Missing or excluded	16			15			406		
All episodes	234	13.2	(2 – 27)	198	12.9	(4 – 25)	6,727	13.3	(3 – 28)

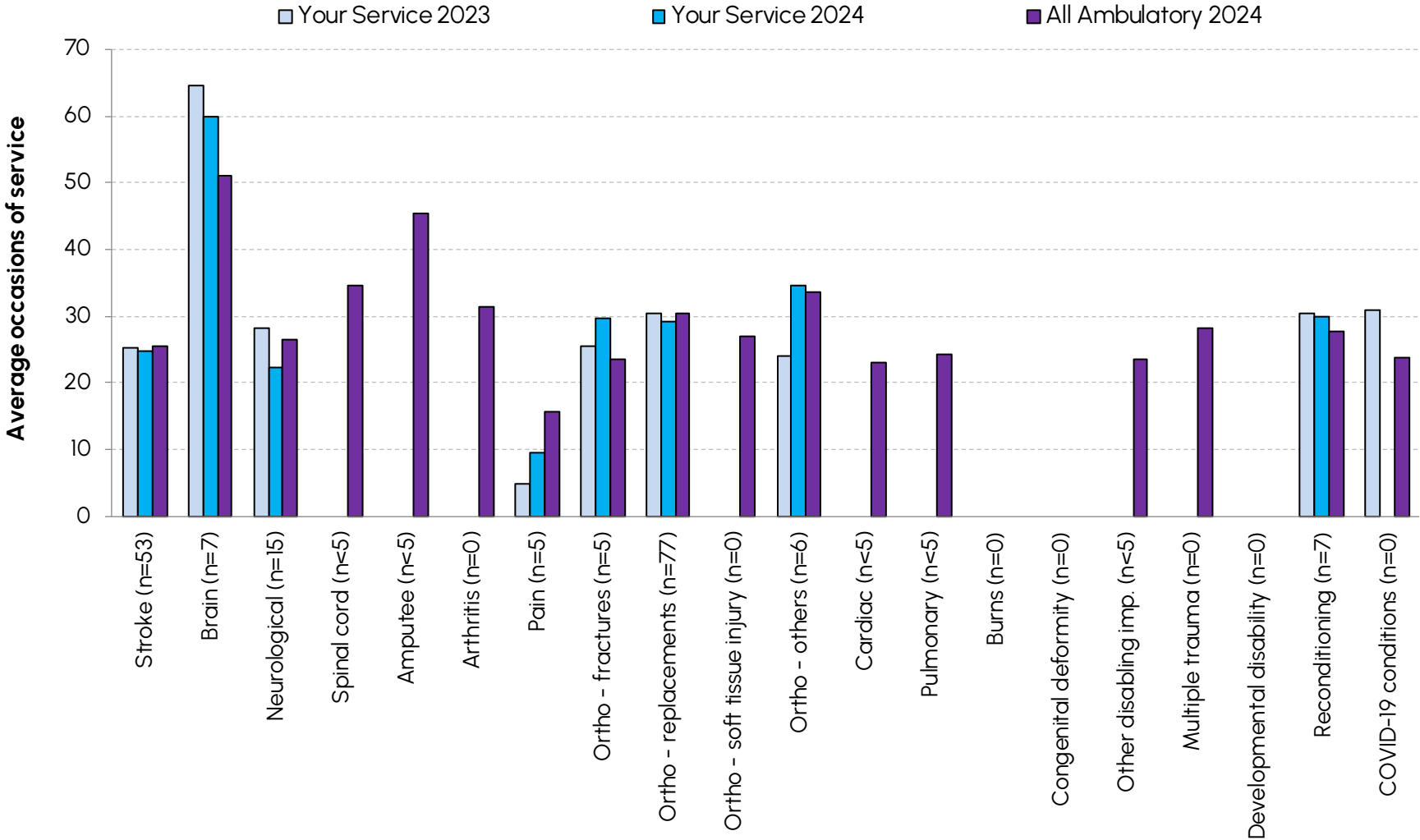
Days seen per elapsed week by impairment group



Days seen per elapsed week by impairment group

Impairment group	Your Service 2023			Your Service 2024			All Ambulatory 2024		
	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	48	1.6	(0.5 – 3.5)	53	2.0	(0.6 – 3.6)	1,509	1.5	(0.4 – 3.0)
Brain	7	1.5		7	2.1		235	1.6	(0.5 – 3.3)
Neurological	27	1.4	(0.3 – 2.4)	15	1.8		387	1.5	(0.3 – 2.9)
Spinal cord	4	—		0	—		62	1.4	(0.4 – 2.6)
Amputee	3	—		3	—		114	1.9	(0.5 – 6.1)
Arthritis	4	—		0	—		46	1.2	(0.5 – 1.8)
Pain	1	—		2	—		78	1.7	(0.6 – 2.5)
Ortho - fractures	11	1.5		5	1.3		284	1.8	(0.7 – 2.9)
Ortho - replacements	58	2.0	(1.1 – 3.1)	76	2.0	(1.0 – 3.1)	2,462	2.0	(1.1 – 2.8)
Ortho - soft tissue injury	2	—		0	—		32	1.7	(0.8 – 2.5)
Ortho - others	11	1.8		6	1.5		240	1.8	(0.9 – 2.5)
Cardiac	0	—		1	—		49	1.7	(0.8 – 3.0)
Pulmonary	4	—		2	—		48	1.2	(0.6 – 2.3)
Burns	0	—		0	—		0	—	
Congenital deformity	1	—		0	—		1	—	
Other disabling imp.	2	—		1	—		93	1.6	(0.5 – 2.8)
Multiple trauma	1	—		0	—		32	1.5	(0.8 – 2.7)
Developmental disability	0	—		0	—		0	—	
Reconditioning	23	1.6	(0.4 – 2.5)	7	1.7		478	1.7	(0.6 – 2.6)
COVID-19 conditions	1	—		0	—		15	1.4	
Missing or excluded	27			20			577		
All episodes	234	1.6	(0.5 – 2.8)	198	1.9	(0.6 – 3.2)	6,727	1.8	(0.6 – 2.9)

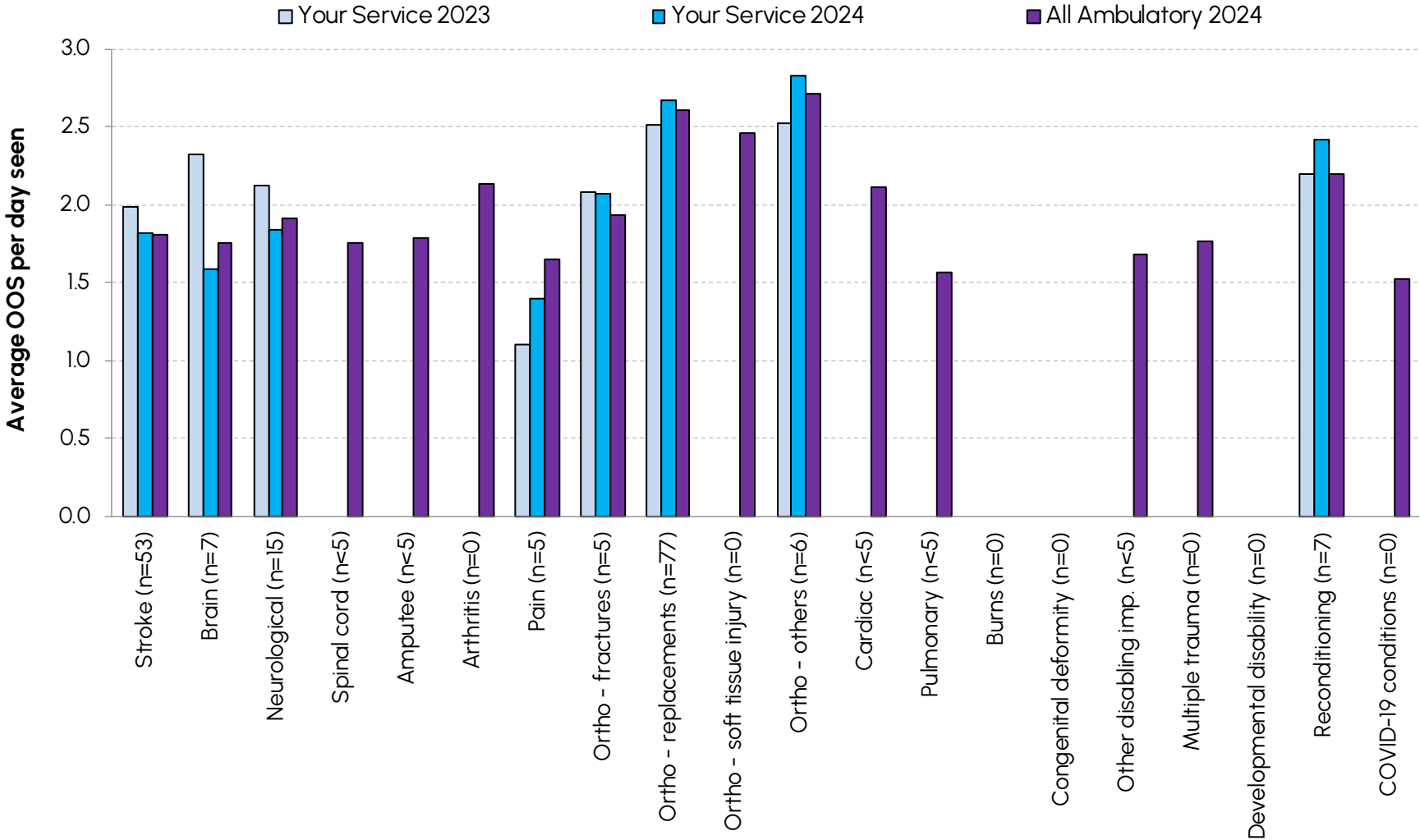
Occasions of service by impairment group



Occasions of service by impairment group

Impairment group	Your Service 2023			Your Service 2024			All Ambulatory 2024		
	No.	Mean occasions of service	Trimmed data range*	No.	Mean occasions of service	Trimmed data range*	No.	Mean occasions of service	Trimmed data range*
Stroke	50	25.3	(4 – 64)	53	24.8	(4 – 89)	1,536	25.6	(3 – 72)
Brain	8	64.5		7	60.0		238	51.1	(5 – 177)
Neurological	27	28.3	(5 – 54)	15	22.2		395	26.5	(6 – 60)
Spinal cord	4	—		1	—		77	34.7	(10 – 99)
Amputee	3	—		3	—		118	45.5	(4 – 141)
Arthritis	4	—		0	—		50	31.4	(7 – 69)
Pain	8	4.8		5	9.4		118	15.7	(1 – 43)
Ortho - fractures	11	25.5		5	29.6		288	23.4	(5 – 54)
Ortho - replacements	58	30.4	(9 – 60)	77	29.2	(14 – 54)	2,501	30.4	(10 – 57)
Ortho - soft tissue injury	2	—		0	—		33	27.0	(8 – 50)
Ortho - others	12	24.0		6	34.7		245	33.5	(9 – 60)
Cardiac	0	—		1	—		52	22.9	(5 – 50)
Pulmonary	4	—		2	—		50	24.3	(6 – 46)
Burns	0	—		0	—		0	—	
Congenital deformity	1	—		0	—		1	—	
Other disabling imp.	2	—		1	—		94	23.6	(7 – 48)
Multiple trauma	1	—		0	—		32	28.1	(10 – 74)
Developmental disability	0	—		0	—		0	—	
Reconditioning	23	30.4	(14 – 60)	7	30.0		489	27.8	(5 – 56)
COVID-19 conditions	1	—		0	—		15	23.7	
Missing or excluded	16			15			410		
All episodes	234	28.4	(4 – 60)	198	27.8	(5 – 59)	6,727	28.9	(5 – 62)

Occasions of service per day seen by impairment group



Occasions of service per day seen by impairment group

Impairment group	Your Service 2023			Your Service 2024			All Ambulatory 2024		
	No.	Mean OOS per day seen	Trimmed data range*	No.	Mean OOS per day seen	Trimmed data range*	No.	Mean OOS per day seen	Trimmed data range*
Stroke	50	2.0	(1.0 – 3.4)	53	1.8	(1.0 – 4.0)	1,536	1.8	(1.0 – 3.7)
Brain	8	2.3		7	1.6		238	1.8	(1.0 – 3.3)
Neurological	27	2.1	(1.1 – 3.0)	15	1.8		395	1.9	(1.0 – 3.6)
Spinal cord	4	—		1	—		77	1.8	(1.0 – 3.6)
Amputee	3	—		3	—		118	1.8	(1.0 – 4.2)
Arthritis	4	—		0	—		50	2.1	(1.0 – 3.0)
Pain	8	1.1		5	1.4		118	1.7	(1.0 – 3.0)
Ortho - fractures	11	2.1		5	2.1		288	1.9	(1.0 – 3.0)
Ortho - replacements	58	2.5	(1.0 – 3.0)	77	2.7	(1.0 – 3.0)	2,500	2.6	(1.0 – 3.0)
Ortho - soft tissue injury	2	—		0	—		33	2.5	(1.0 – 3.0)
Ortho - others	12	2.5		6	2.8		245	2.7	(1.0 – 3.0)
Cardiac	0	—		1	—		52	2.1	(1.2 – 3.0)
Pulmonary	4	—		2	—		50	1.6	(1.1 – 3.0)
Burns	0	—		0	—		0	—	
Congenital deformity	1	—		0	—		1	—	
Other disabling imp.	2	—		1	—		94	1.7	(1.0 – 2.5)
Multiple trauma	1	—		0	—		32	1.8	(1.1 – 3.1)
Developmental disability	0	—		0	—		0	—	
Reconditioning	23	2.2	(1.4 – 3.0)	7	2.4		488	2.2	(1.0 – 3.0)
COVID-19 conditions	1	—		0	—		15	1.5	
Missing or excluded	16			15			412		
All episodes	234	2.2	(1.0 – 3.0)	198	2.2	(1.0 – 3.0)	6,727	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:

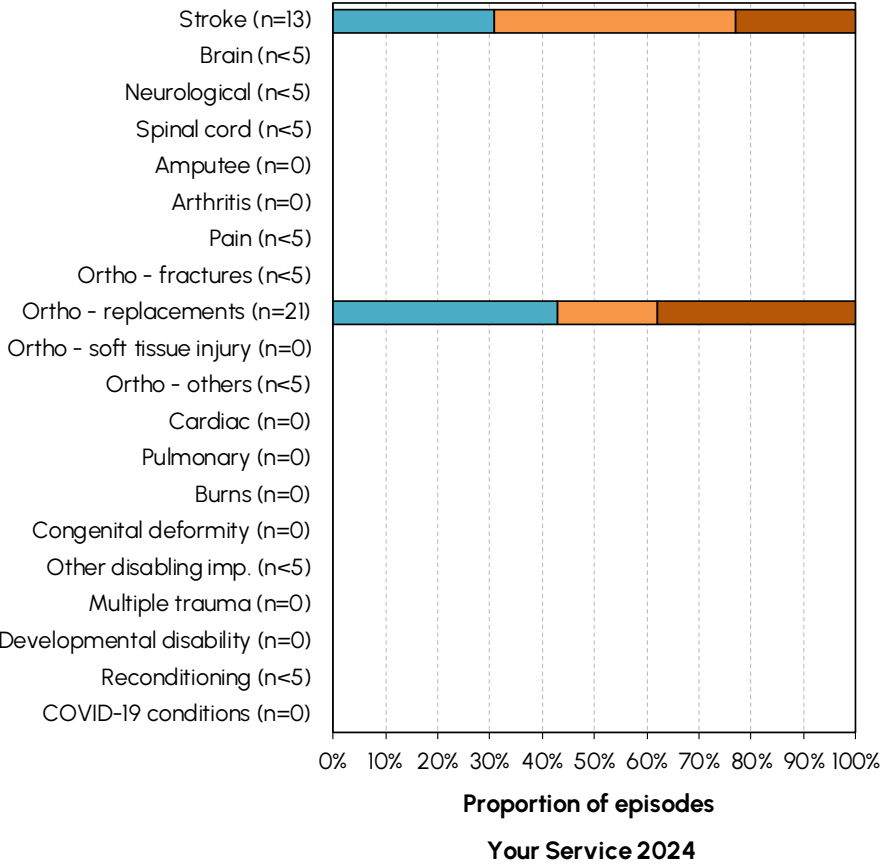
- the same or similar job with reduced hours
or
- a different job due to reduced function
or
- not able to work.

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

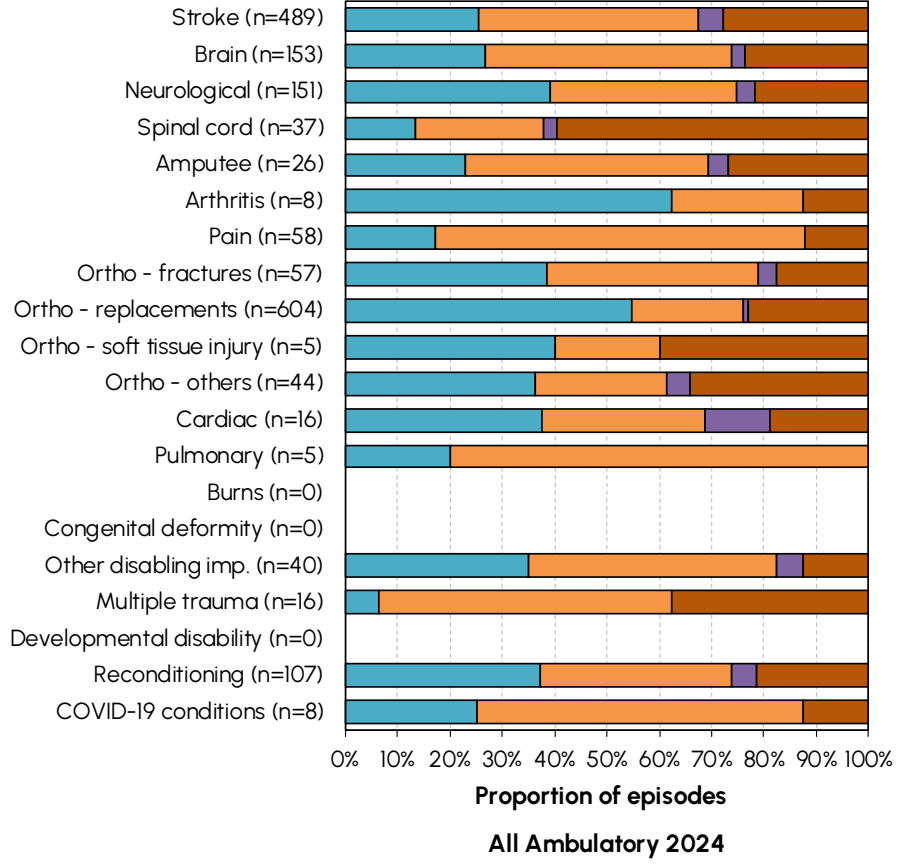
Employment outcomes by impairment group



■ 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



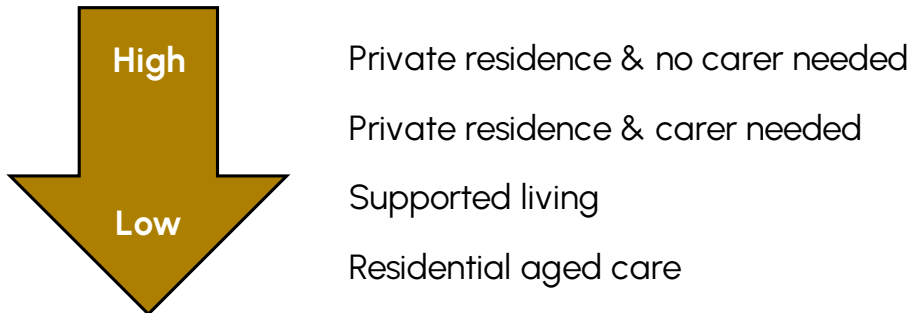
Employment outcomes by impairment group

Impairment group	Your Service 2023		Your Service 2024		All Ambulatory 2024	
	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	18	33.3	13	30.8	489	25.4
Brain	4	25.0	4	0.0	153	26.8
Neurological	7	14.3	4	100.0	151	39.1
Spinal cord	1	0.0	1	0.0	37	13.5
Amputee	1	0.0	0	—	26	23.1
Arthritis	1	100.0	0	—	8	62.5
Pain	4	25.0	4	50.0	58	17.2
Ortho - fractures	4	50.0	1	0.0	57	38.6
Ortho - replacements	13	30.8	21	42.9	604	54.8
Ortho - soft tissue injury	0	—	0	—	5	40.0
Ortho - others	7	57.1	1	100.0	44	36.4
Cardiac	0	—	0	—	16	37.5
Pulmonary	1	100.0	0	—	5	20.0
Burns	0	—	0	—	0	—
Congenital deformity	1	100.0	0	—	0	—
Other disabling imp.	0	—	1	100.0	40	35.0
Multiple trauma	1	100.0	0	—	16	6.3
Developmental disability	0	—	0	—	0	—
Reconditioning	1	100.0	1	100.0	107	37.4
COVID-19 conditions	1	100.0	0	—	8	25.0
Missing or excluded	170		147		4,911	
All episodes	234	37.5	198	43.1	6,727	37.6

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.

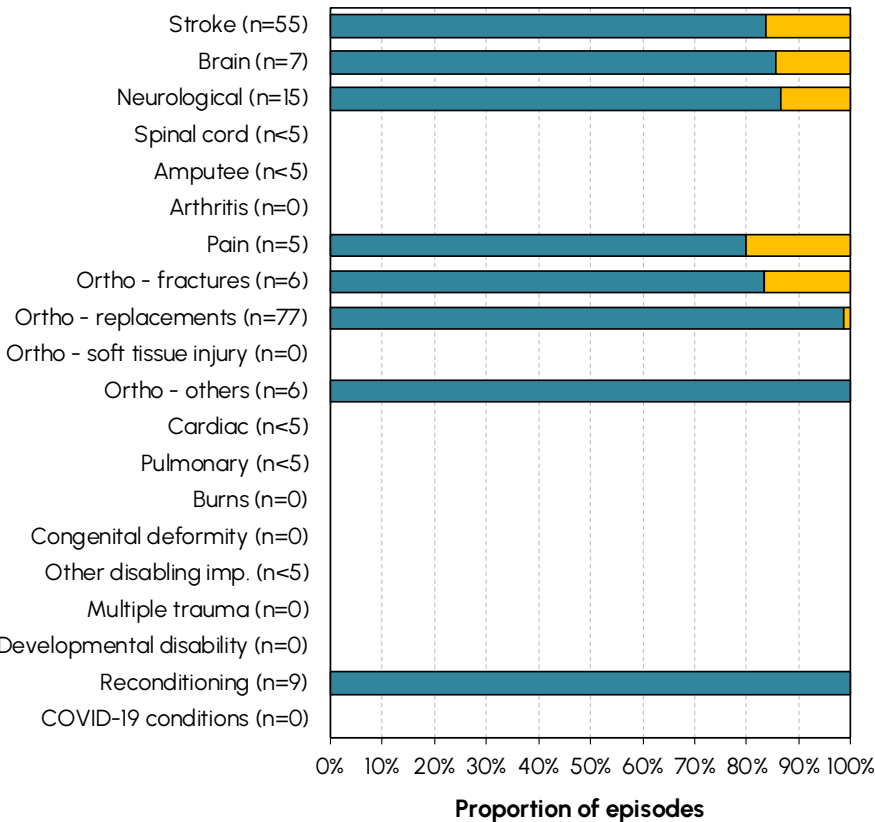
A patient is defined as having 'reduced independence' when:

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

Independence outcomes by impairment group

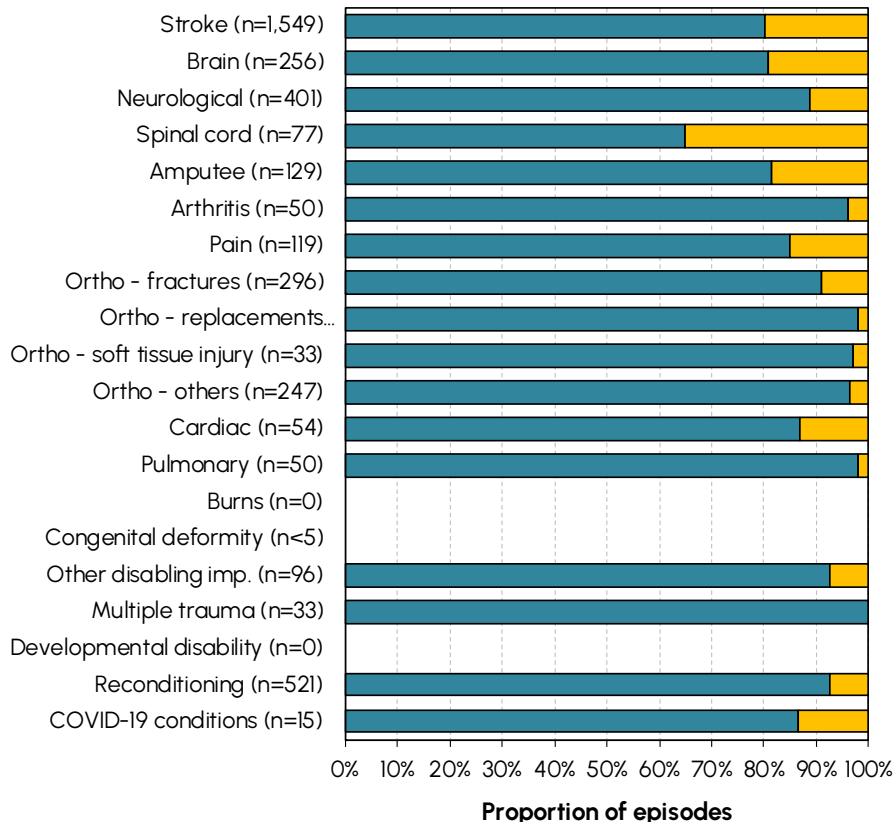


■ Equivalent independence ■ Reduced independence



Your Service 2024

■ Equivalent independence ■ Reduced independence

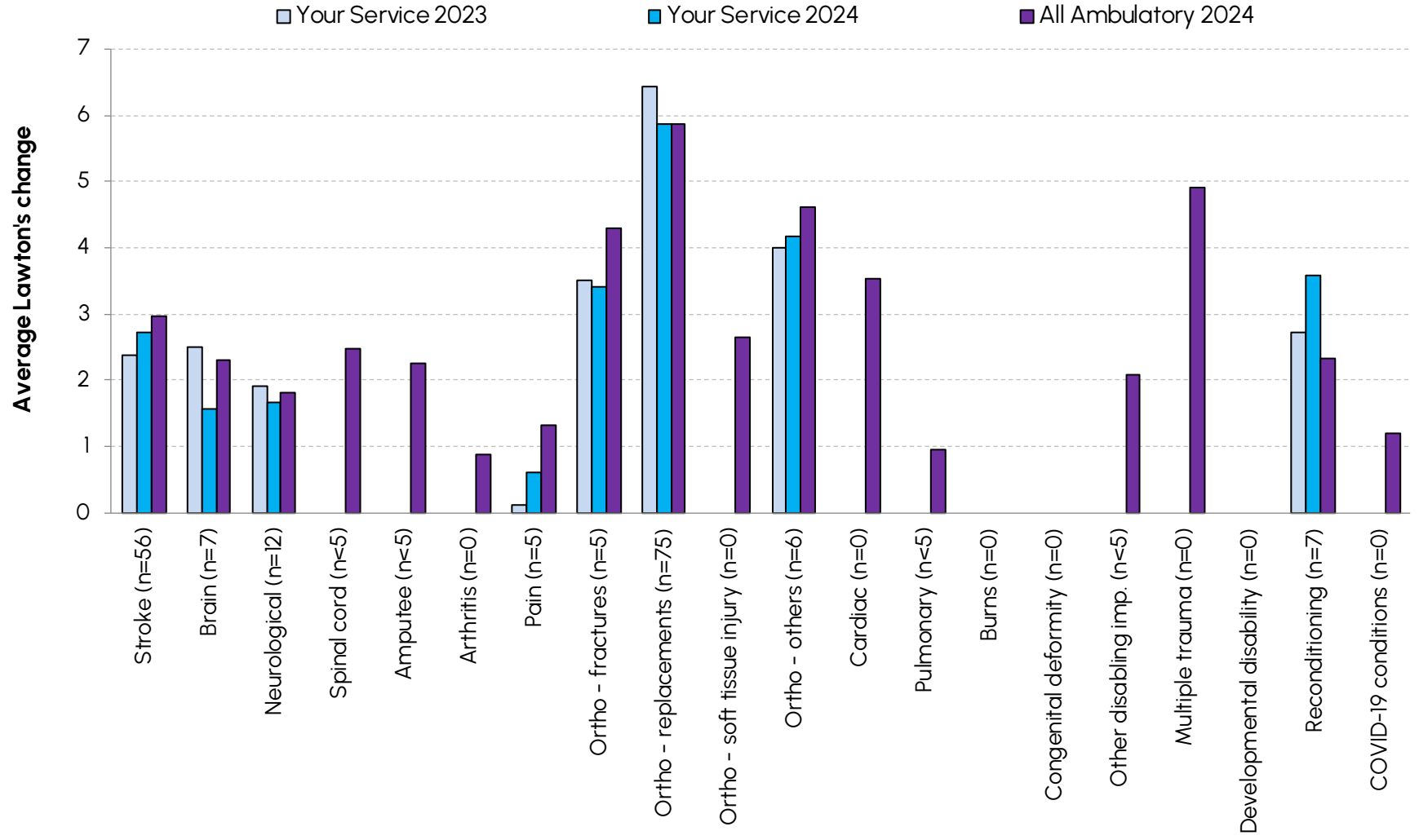


All Ambulatory 2024

Independence outcomes by impairment group

Impairment group	Your Service 2023		Your Service 2024		All Ambulatory 2024	
	No.	Equivalent independence outcome (%)	No.	Equivalent independence outcome (%)	No.	Equivalent independence outcome (%)
Stroke	50	78.0	55	83.6	1,549	80.1
Brain	10	100.0	7	85.7	256	80.9
Neurological	28	75.0	15	86.7	401	88.8
Spinal cord	4	75.0	1	0.0	77	64.9
Amputee	3	66.7	3	66.7	129	81.4
Arthritis	4	100.0	0	—	50	96.0
Pain	8	75.0	5	80.0	119	84.9
Ortho - fractures	11	81.8	6	83.3	296	90.9
Ortho - replacements	58	100.0	77	98.7	2,489	98.0
Ortho - soft tissue injury	2	100.0	0	—	33	97.0
Ortho - others	12	100.0	6	100.0	247	96.4
Cardiac	0	—	1	100.0	54	87.0
Pulmonary	4	100.0	2	100.0	50	98.0
Burns	0	—	0	—	0	—
Congenital deformity	1	100.0	0	—	1	—
Other disabling imp.	2	100.0	1	100.0	96	92.7
Multiple trauma	1	100.0	0	—	33	100.0
Developmental disability	0	—	0	—	0	—
Reconditioning	24	83.3	9	100.0	521	92.5
COVID-19 conditions	1	100.0	0	—	15	86.7
Missing or excluded	12		10		326	
All episodes	234	87.4	198	91.0	6,727	90.4

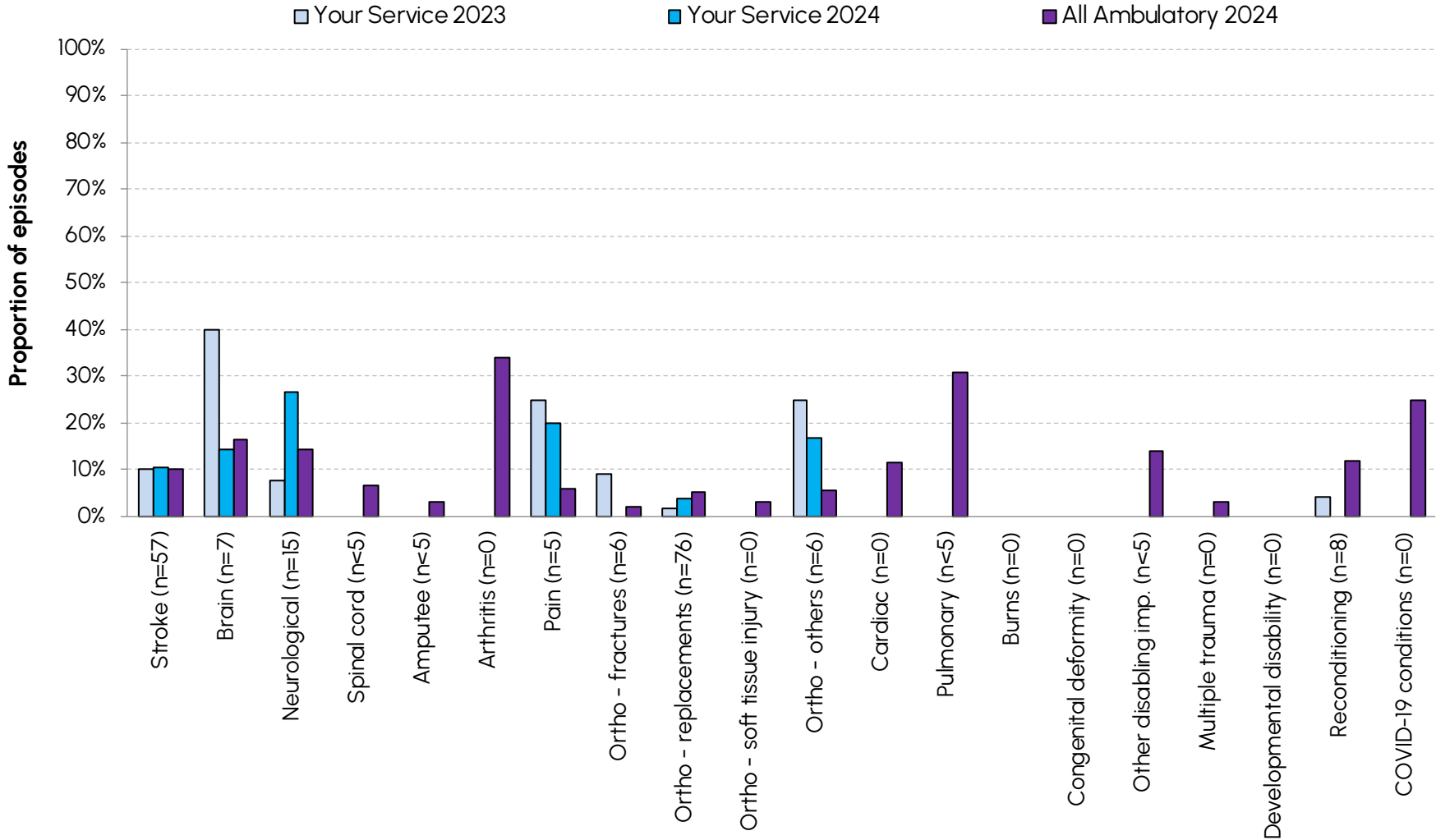
Lawton's score change by impairment



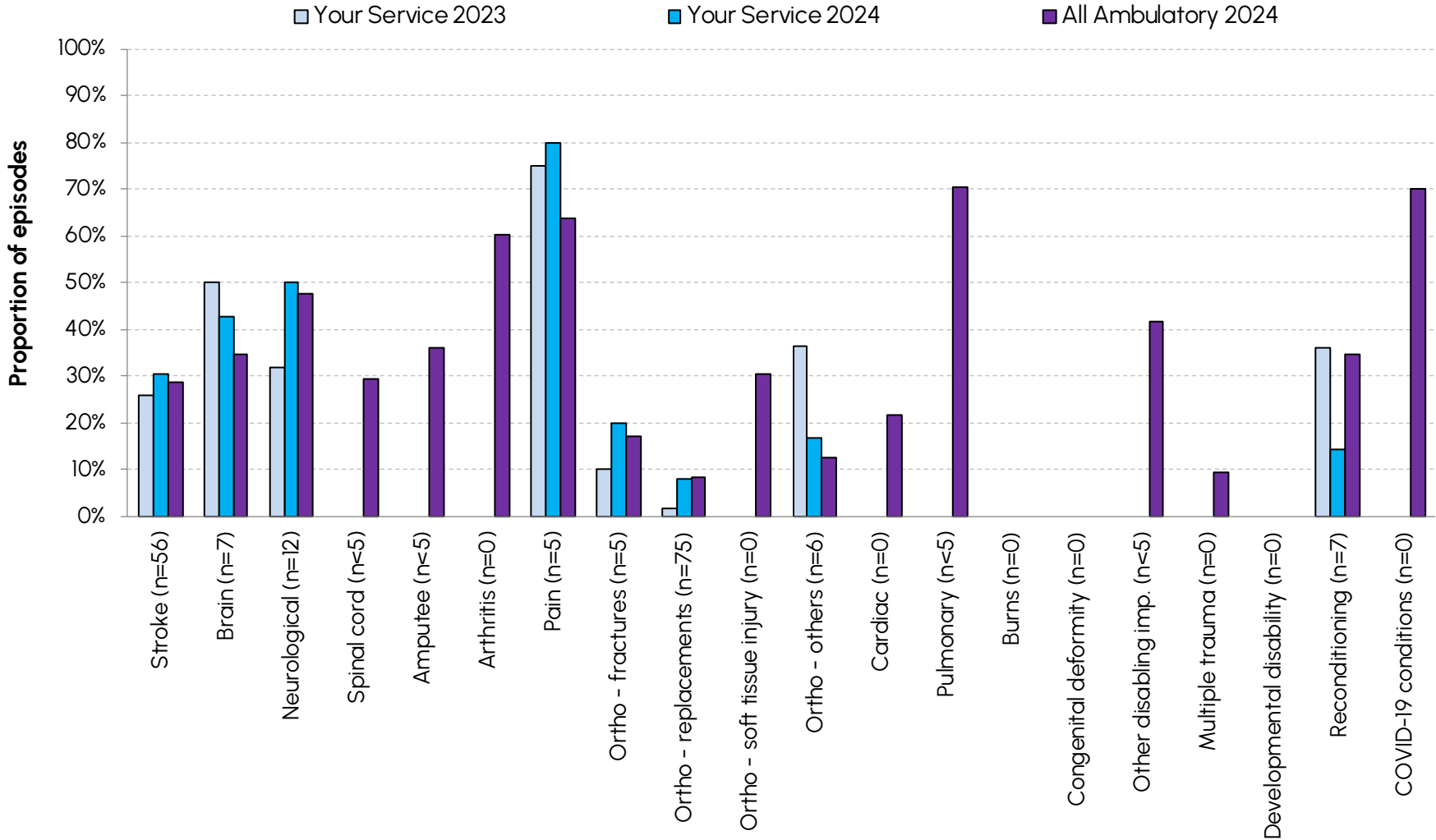
Lawton's score change by impairment

Impairment group	Your Service 2023		Your Service 2024		All Ambulatory 2024	
	No.	Avg. Lawton's change	No.	Avg. Lawton's change	No.	Avg. Lawton's change
Stroke	50	2.4	56	2.7	1,538	3.0
Brain	10	2.5	7	1.6	242	2.3
Neurological	25	1.9	12	1.7	362	1.8
Spinal cord	4	4.8	1	0.0	75	2.5
Amputee	3	1.3	3	2.7	125	2.3
Arthritis	4	0.3	0	—	43	0.9
Pain	8	0.1	5	0.6	113	1.3
Ortho - fractures	10	3.5	5	3.4	291	4.3
Ortho - replacements	57	6.4	75	5.9	2,456	5.9
Ortho - soft tissue injury	2	3.5	0	—	33	2.6
Ortho - others	11	4.0	6	4.2	238	4.6
Cardiac	0	—	0	—	51	3.5
Pulmonary	4	0.0	1	0.0	27	1.0
Burns	0	—	0	—	0	—
Congenital deformity	1	3.0	0	—	1	—
Other disabling imp.	2	1.0	1	4.0	89	2.1
Multiple trauma	1	0.0	0	—	32	4.9
Developmental disability	0	—	0	—	0	—
Reconditioning	25	2.7	7	3.6	508	2.3
COVID-19 conditions	1	2.0	0	—	10	1.2
Missing or excluded	17		19		503	
All episodes	234	3.4	198	3.9	6,727	4.0

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



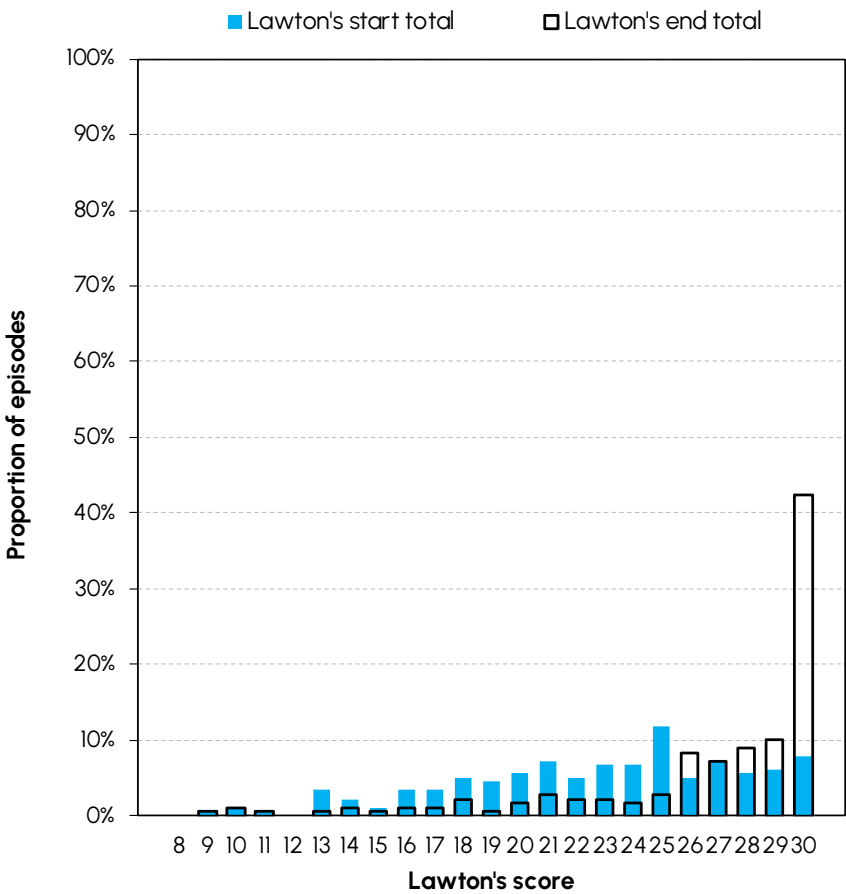
Episodes with no change in Lawton's score by impairment group



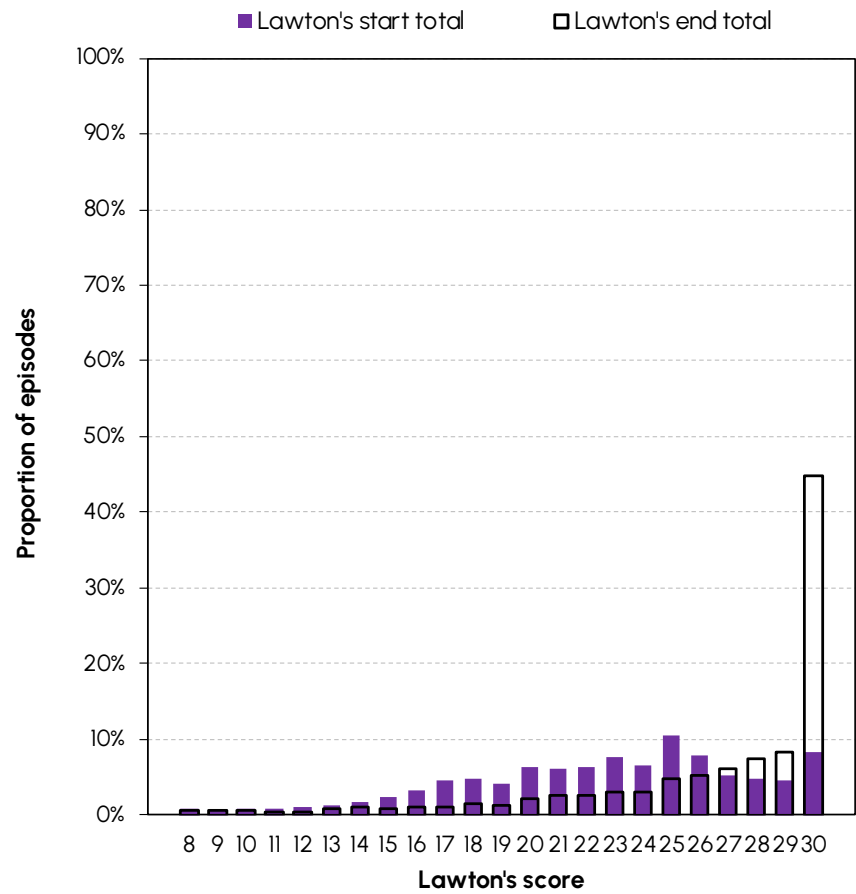
Lawton's start and end total – all episodes



Your Service 2024 (n=179)



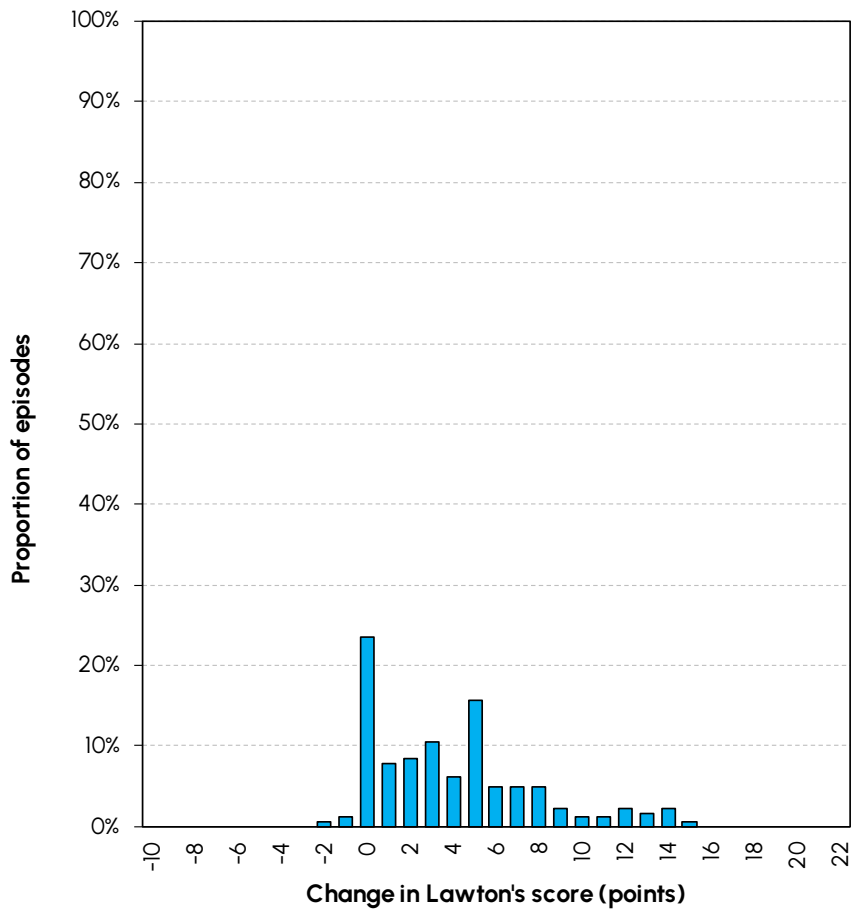
All Ambulatory 2024 (n=6,248)



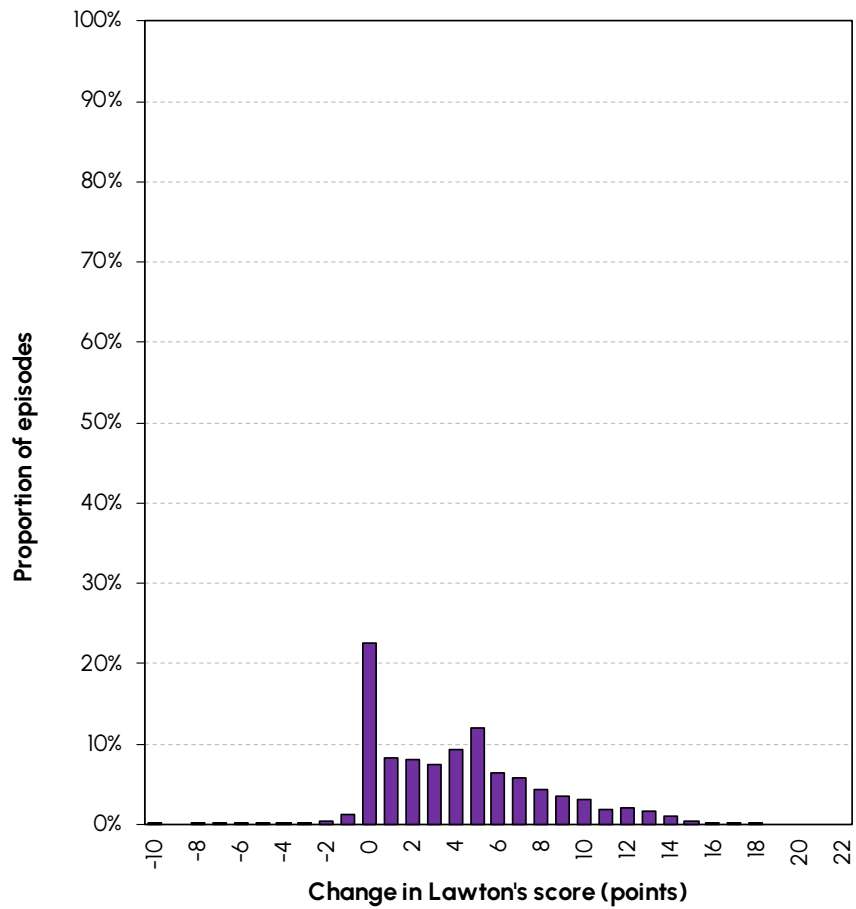
Change in Lawton's score – all episodes



Your Service 2024 (n=179)



All Ambulatory 2024 (n=6,244)

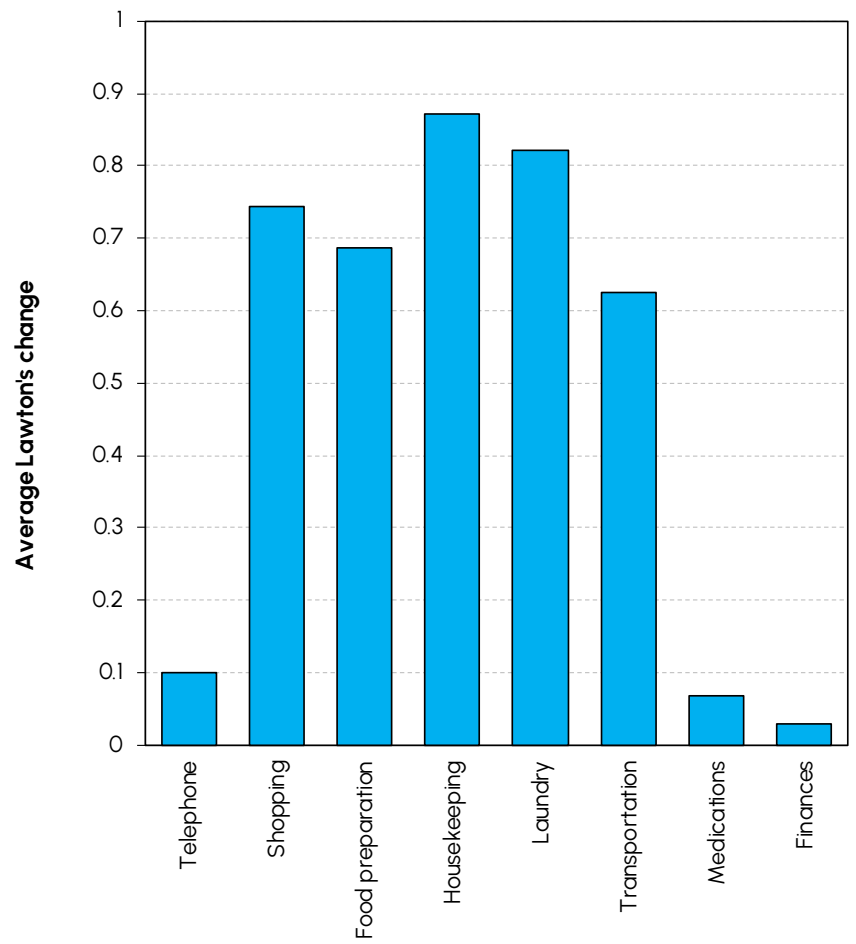


Note: 4 episode(s) had a Lawton's change score < -10.

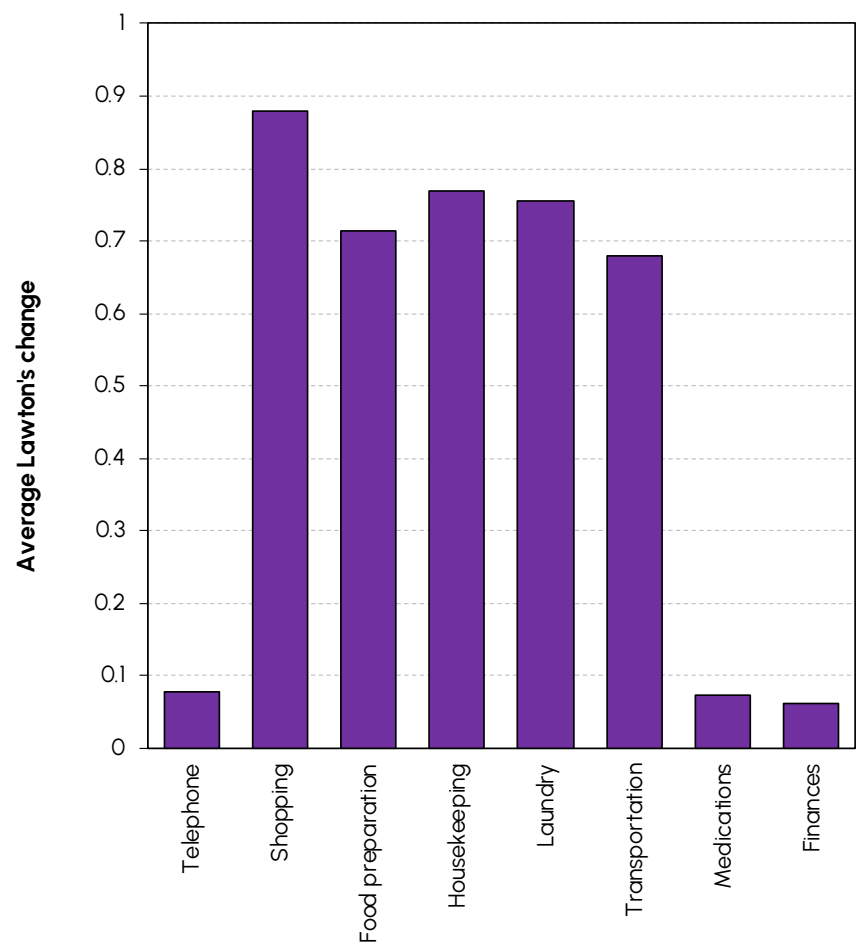
Change in Lawton's item scores – all episodes



Your Service 2024 (n=179)



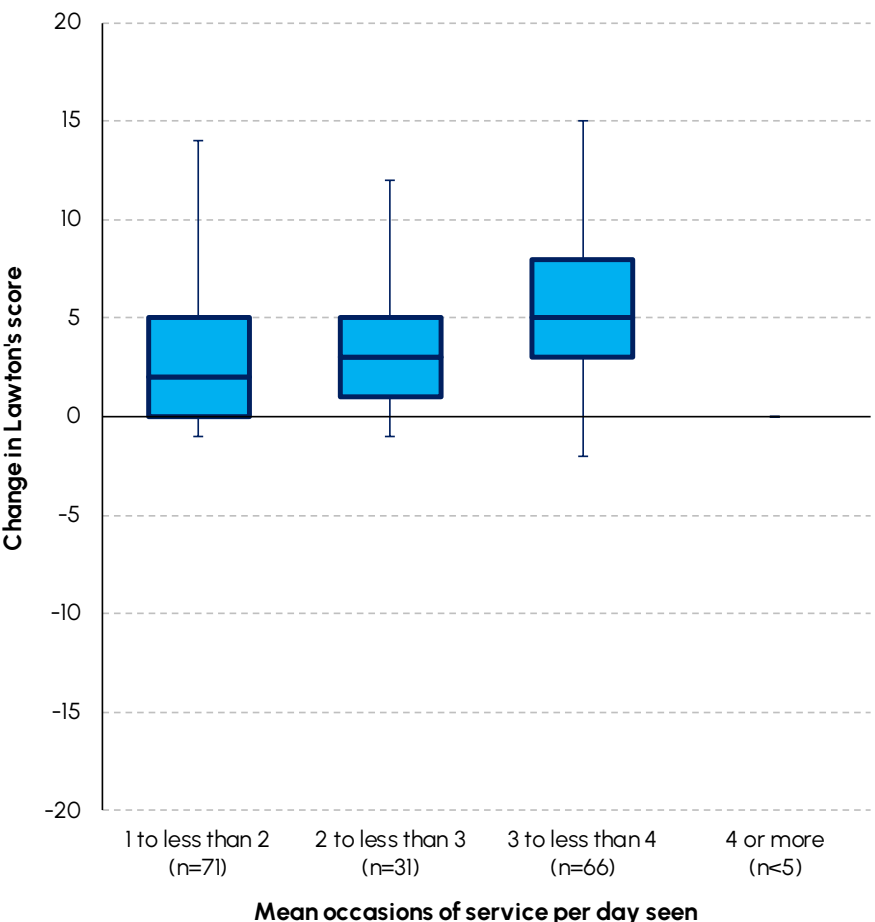
All Ambulatory 2024 (n=6,244)



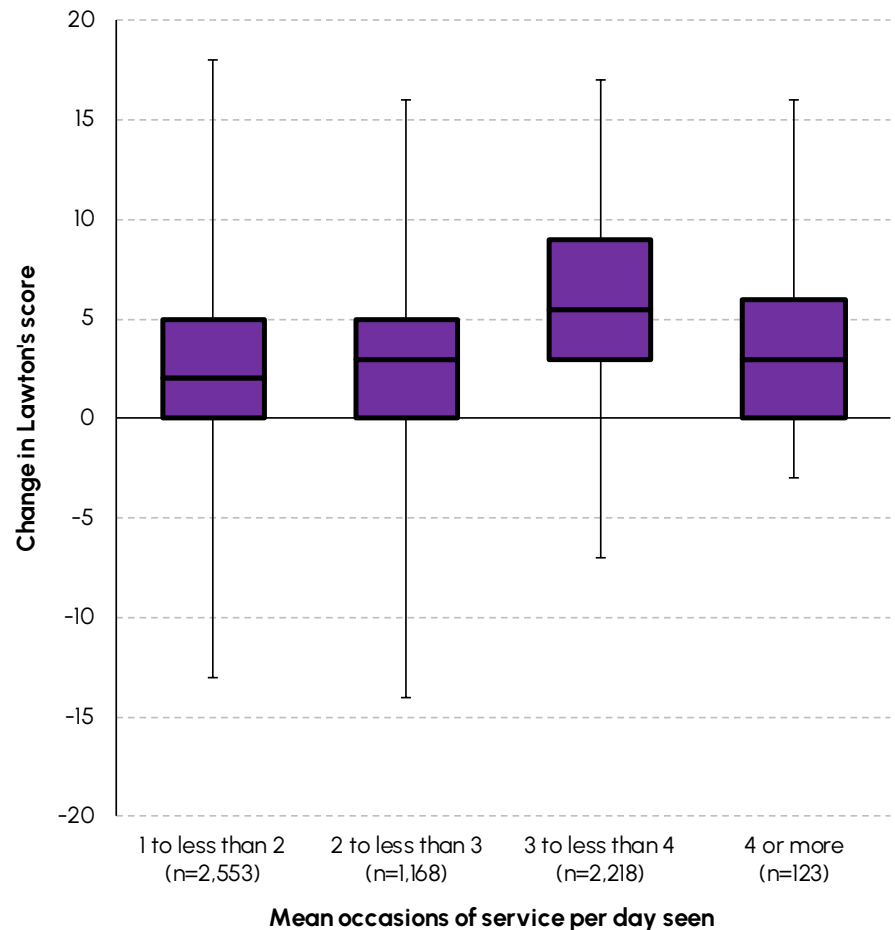
Note: 4 episode(s) had a Lawton's change score < -10.

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

Your Service 2024



All Ambulatory 2024

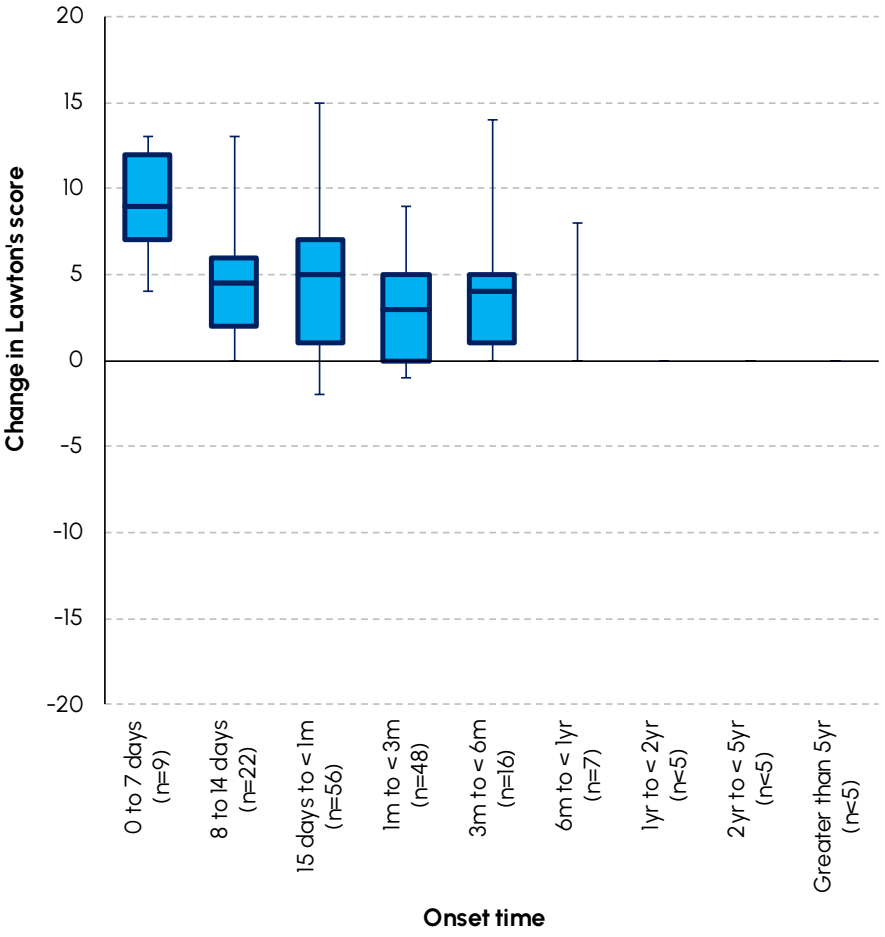


NOTE: To understand how to interpret these figures please refer to Appendix 3

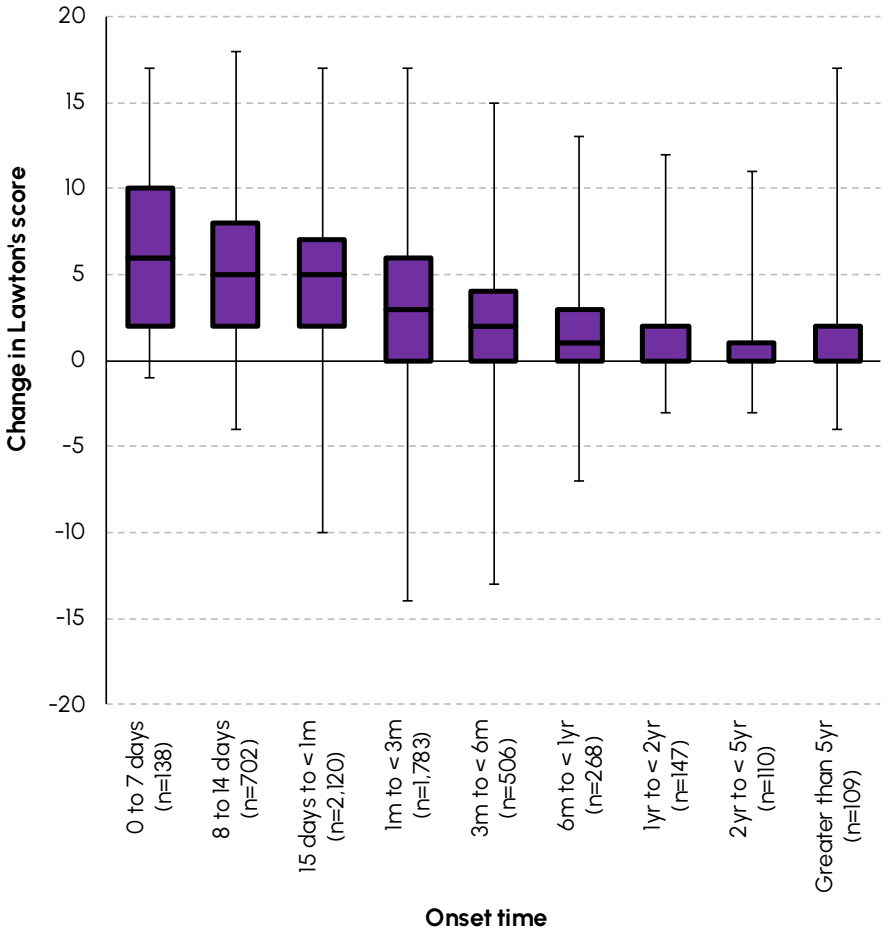
Change in Lawton's score by onset time – all episodes



Your Service 2024



All Ambulatory 2024



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

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)



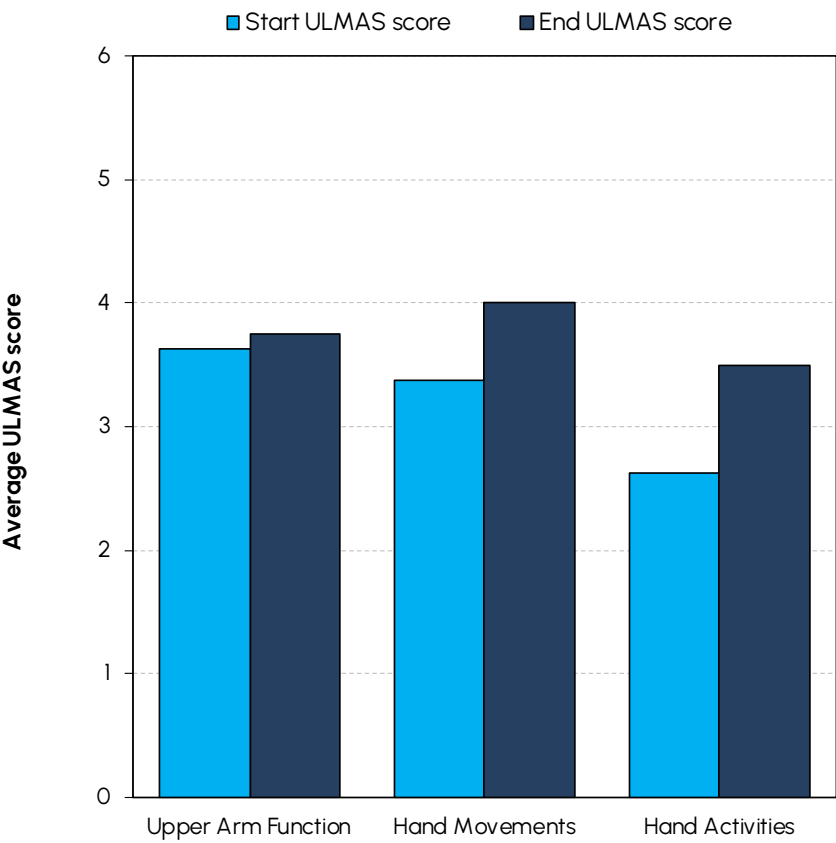
- This data item is collected in addition to the Australian Modified Lawton's IADL Scale for patients who have sustained upper limb impairment following a stroke.
- The UL-MAS is used to assess everyday upper limb motor function in adults following stroke.

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

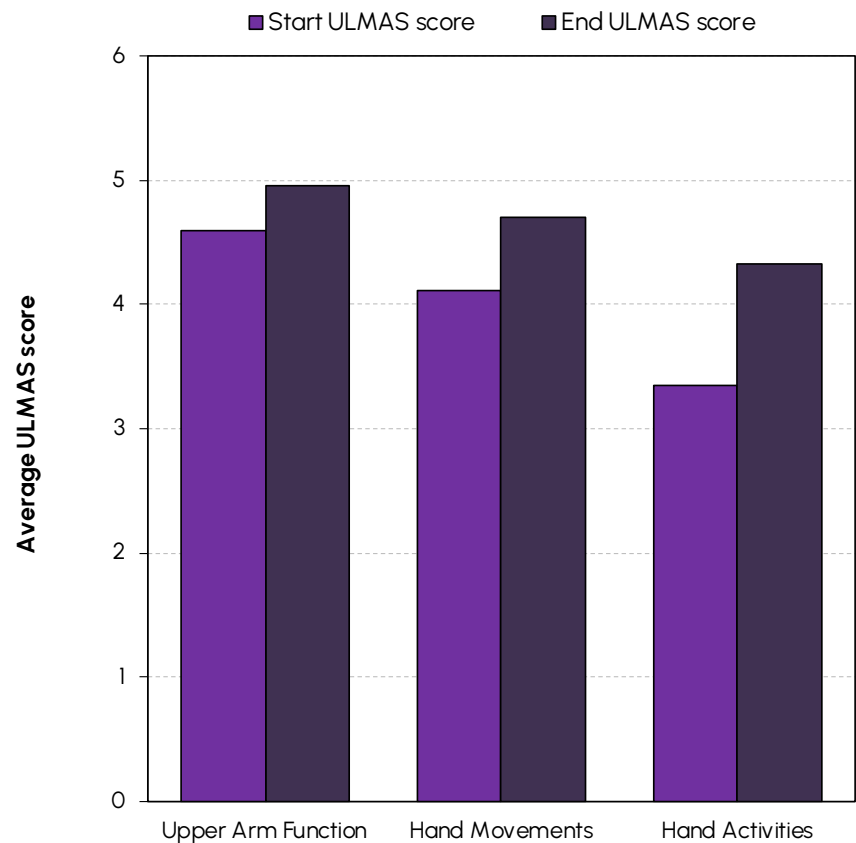
Average ULMAS start and end score by sub-group



Your Service 2024 (n=8)

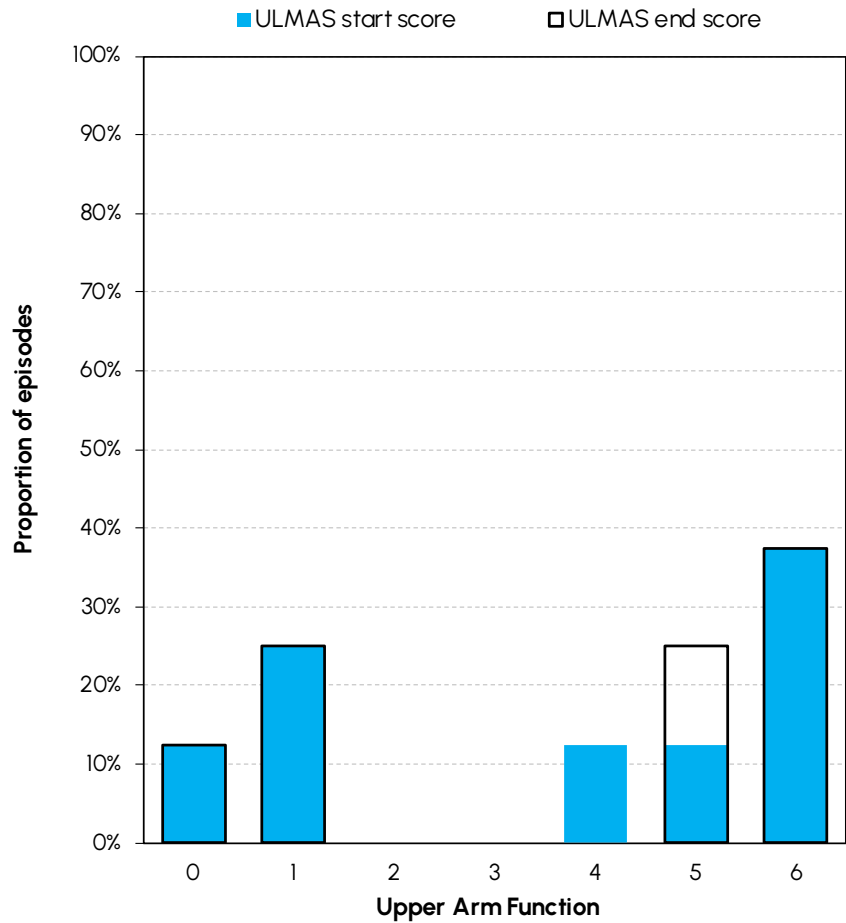


All Ambulatory 2024 (n=244)

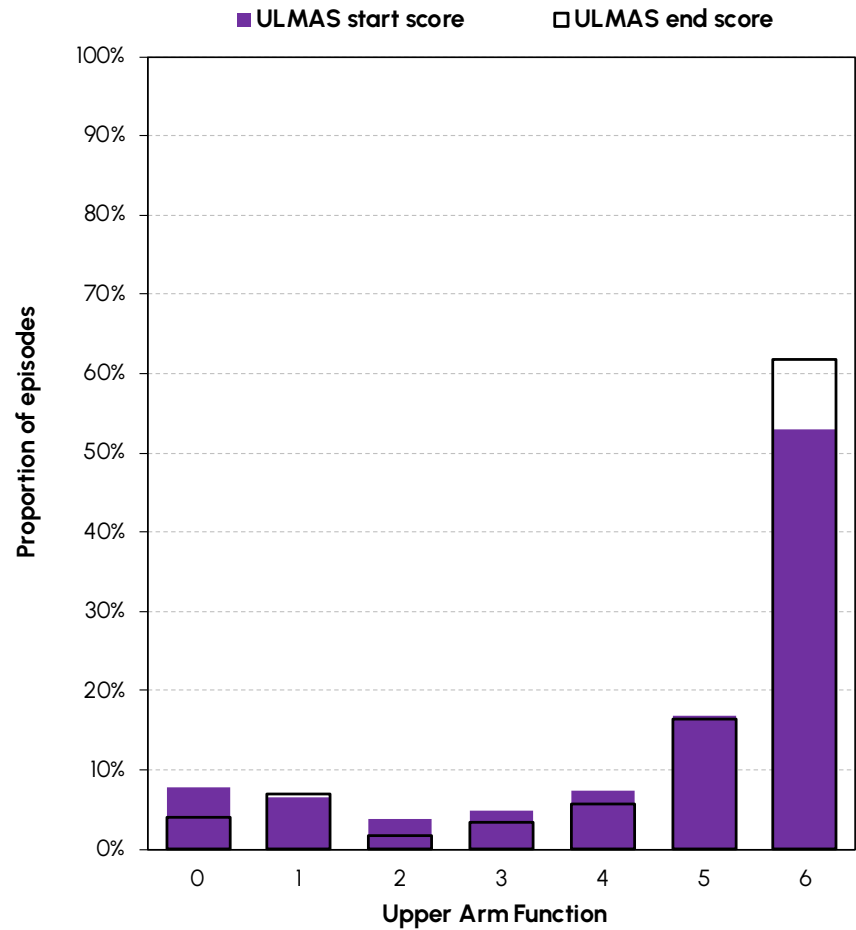


ULMAS start and end total – Upper arm function

Your Service 2024 (n=8)

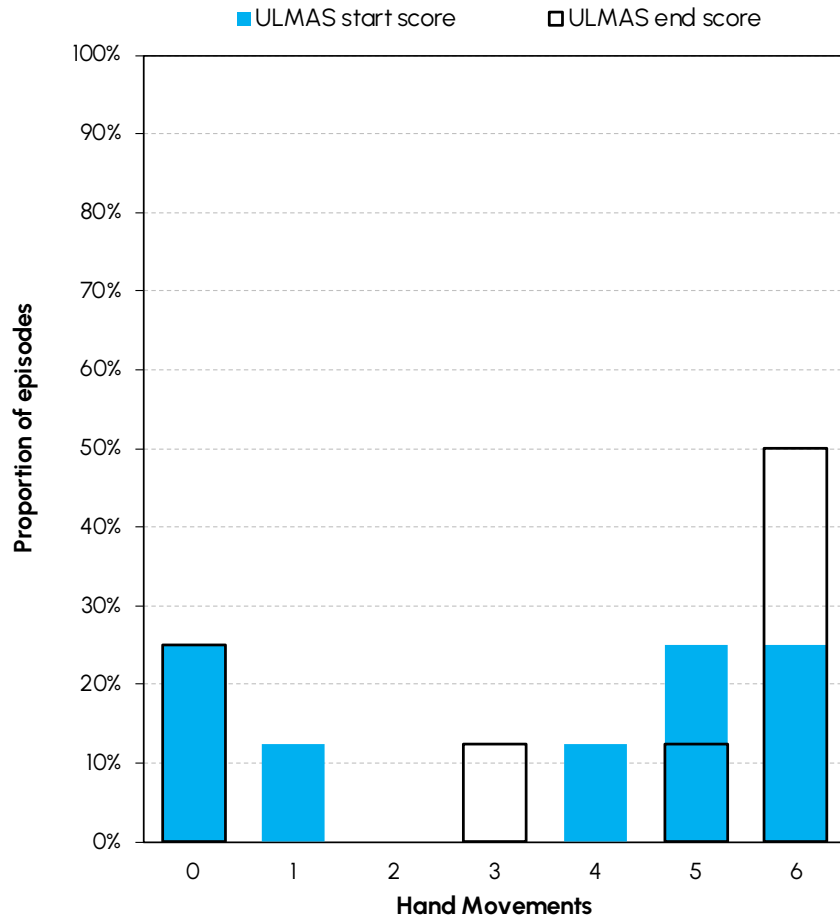


All Ambulatory 2024 (n=244)

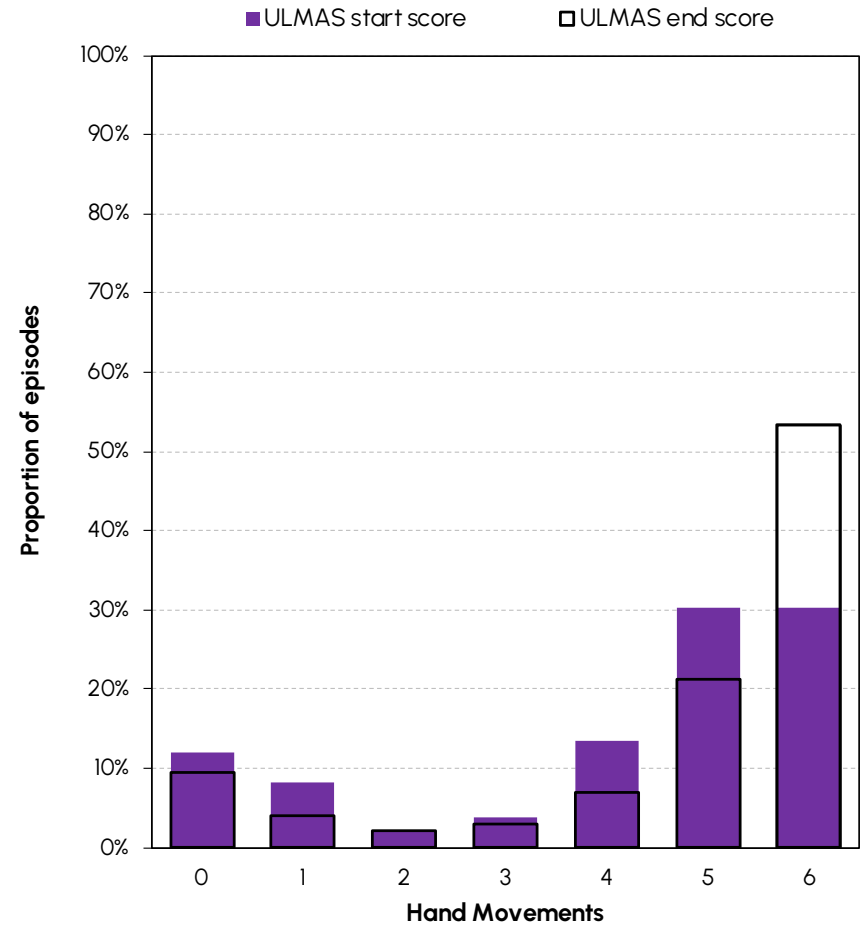


ULMAS start and end total – Hand movements

Your Service 2024 (n=8)

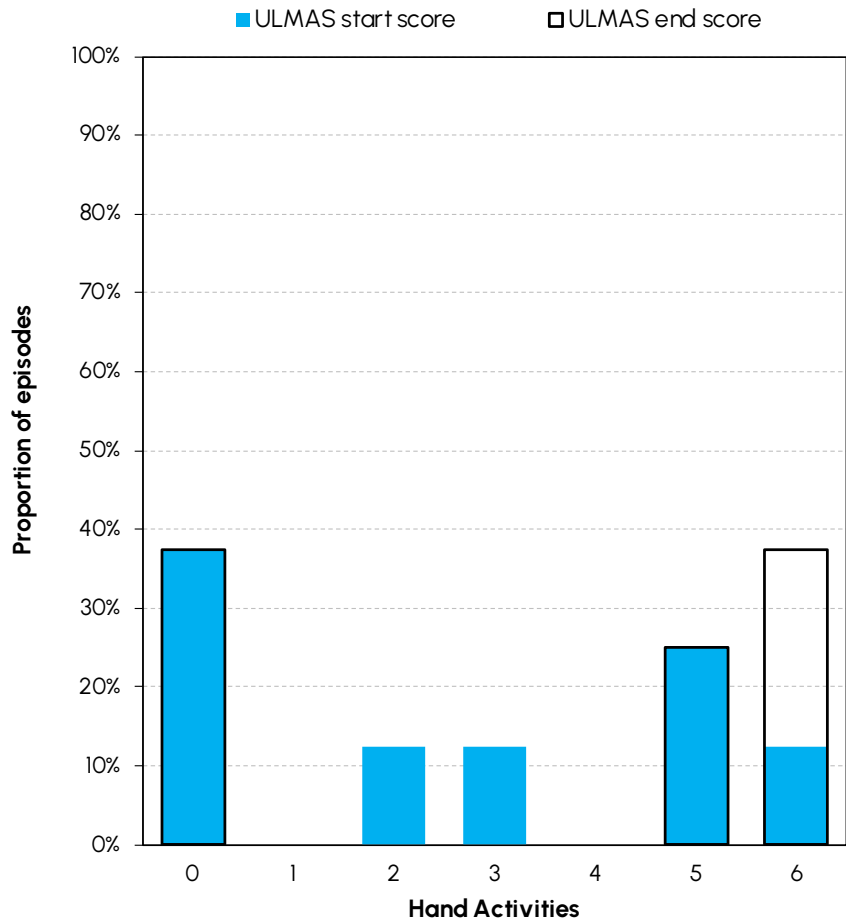


All Ambulatory 2024 (n=244)

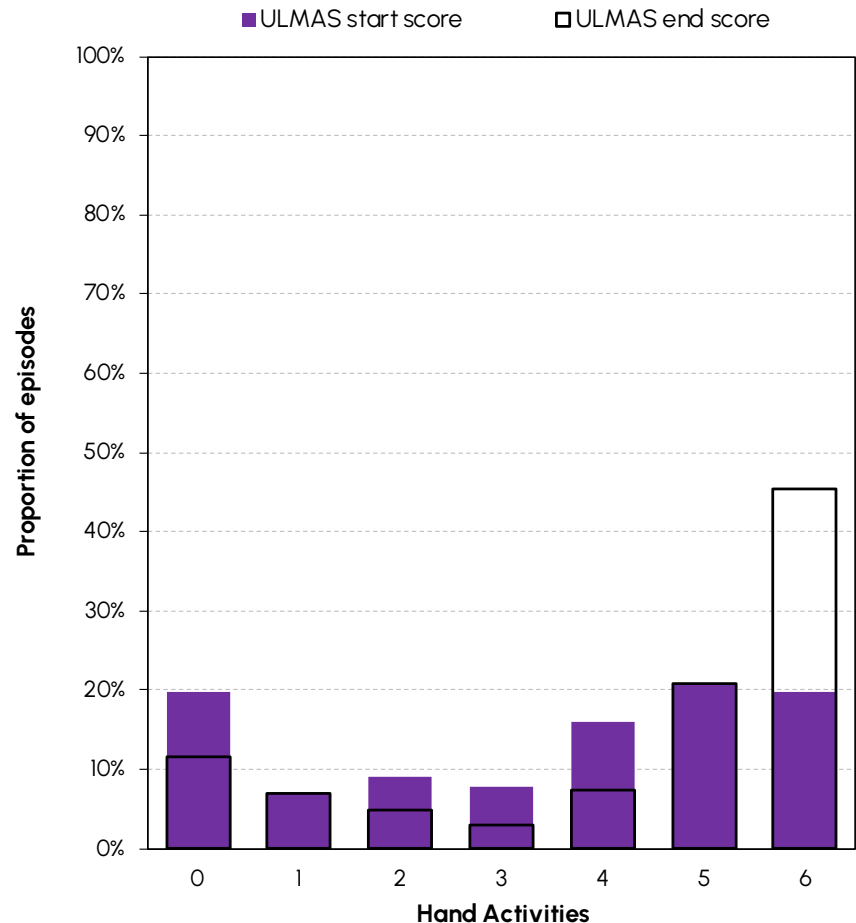


ULMAS start and end total – Hand activities

Your Service 2024 (n=8)



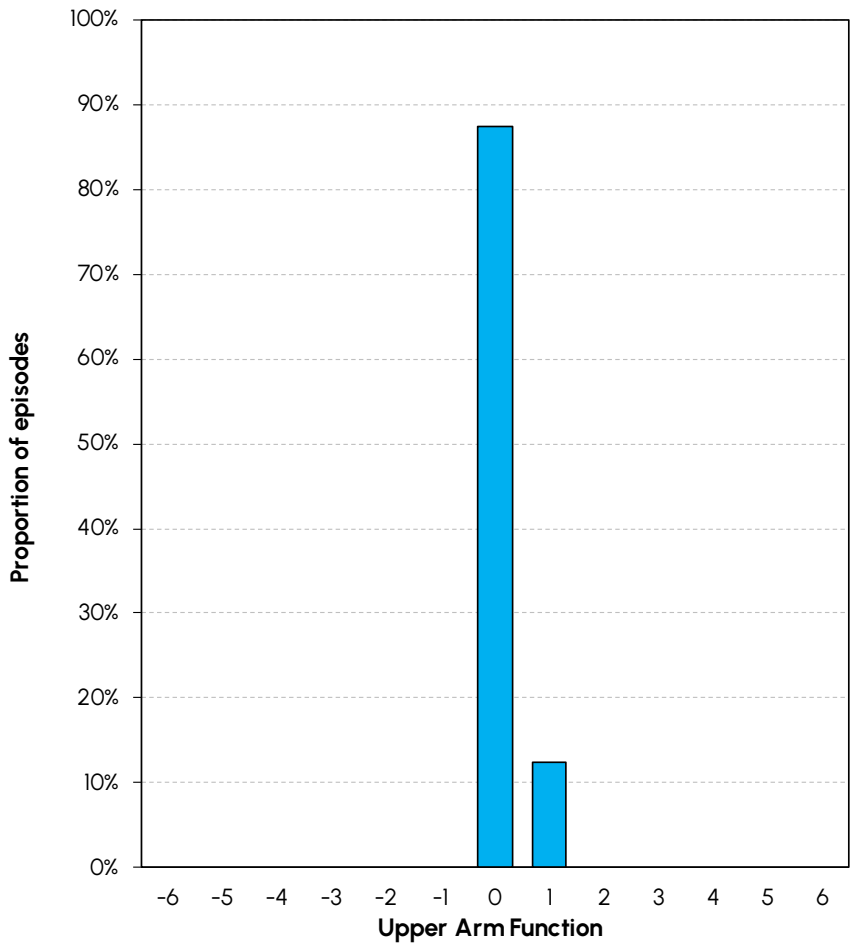
All Ambulatory 2024 (n=244)



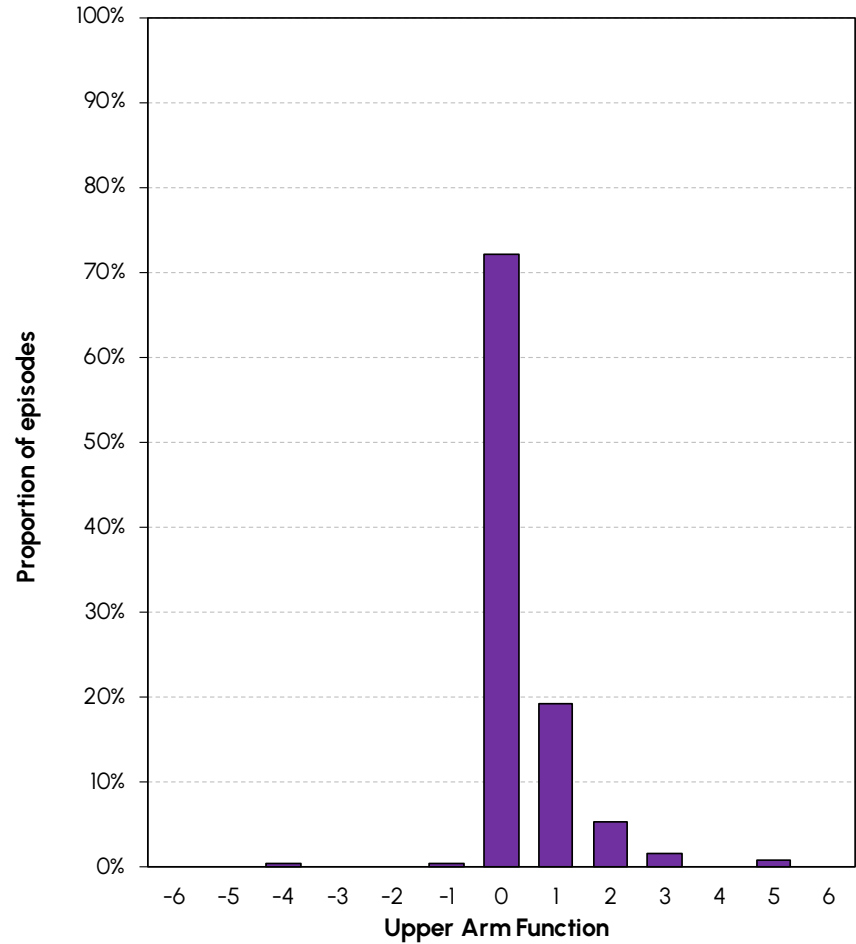
Change in ULMAS score – Upper arm function



Your Service 2024 (n=8)



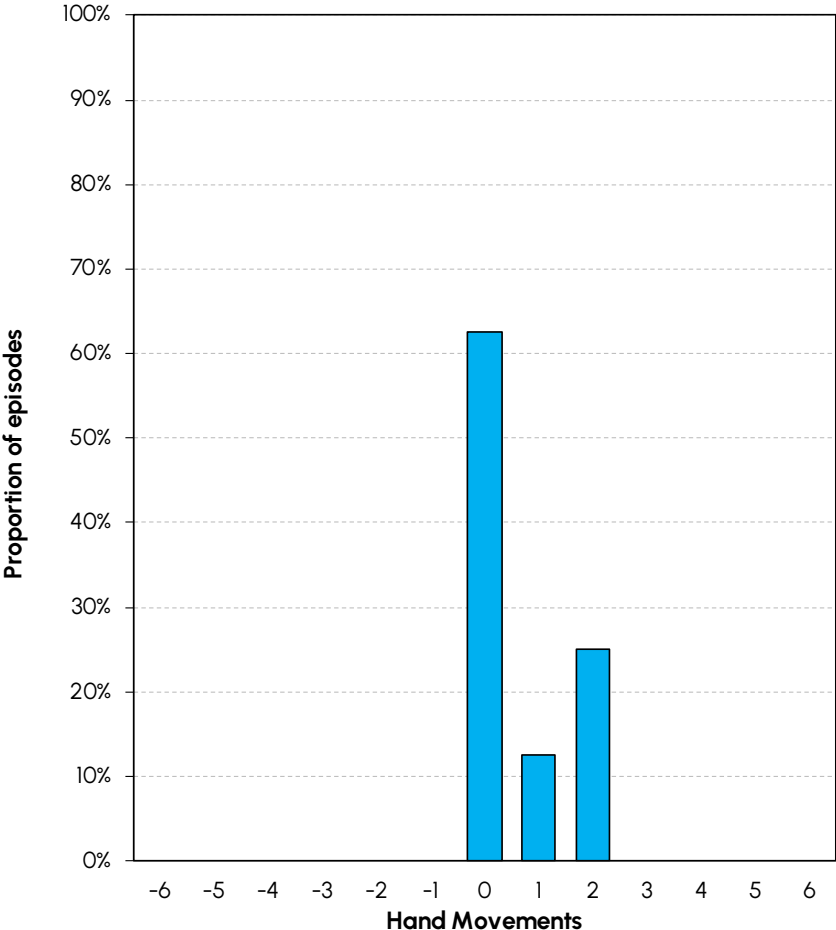
All Ambulatory 2024 (n=244)



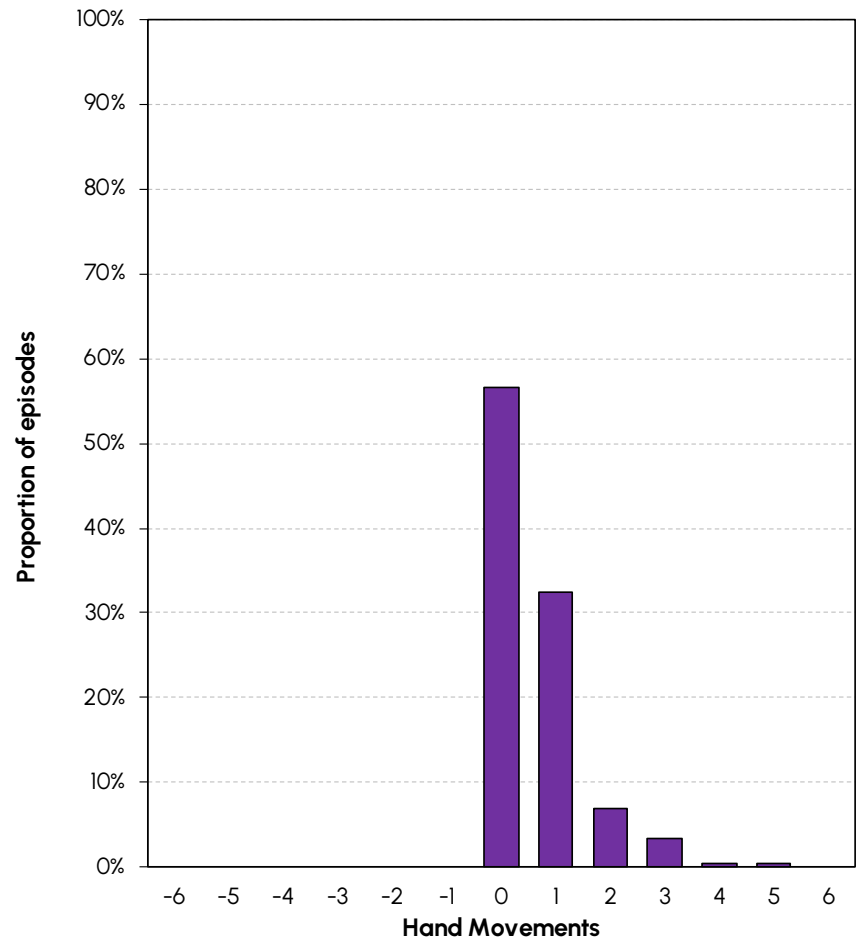
Change in ULMAS score – Hand movements



Your Service 2024 (n=8)



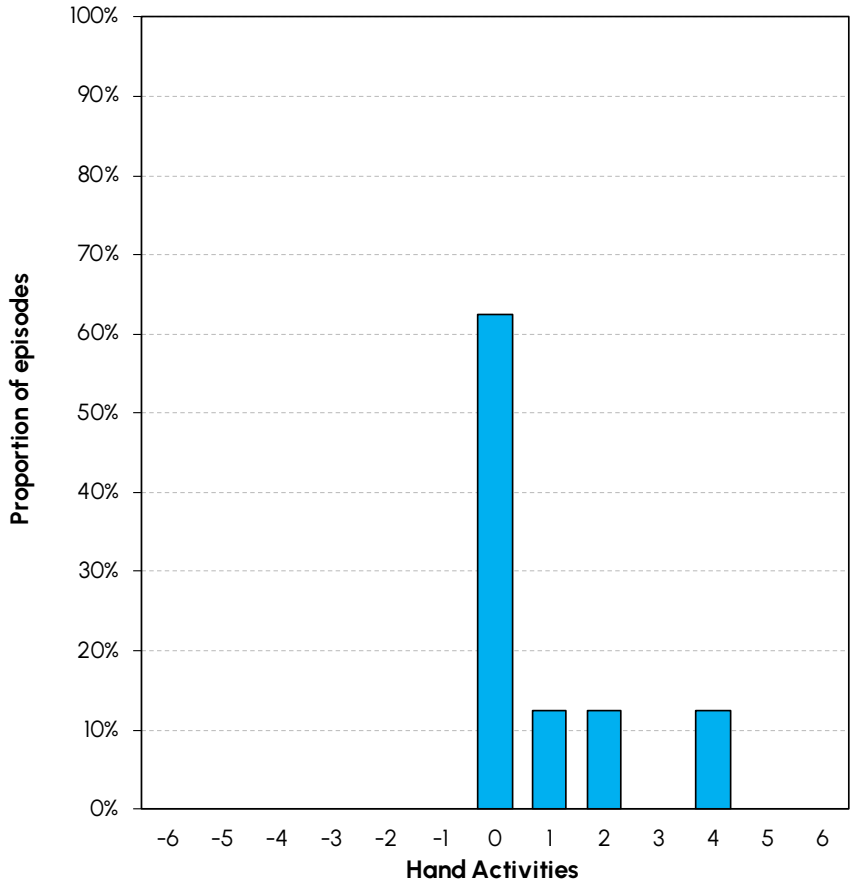
All Ambulatory 2024 (n=244)



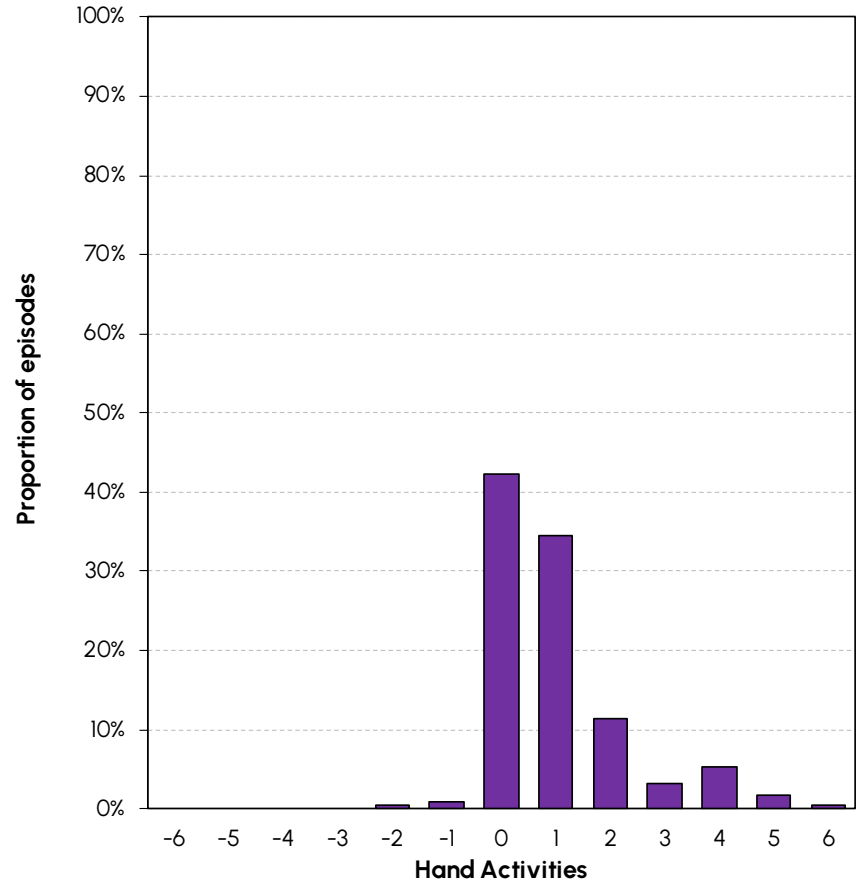
Change in ULMAS score – Hand activities



Your Service 2024 (n=8)

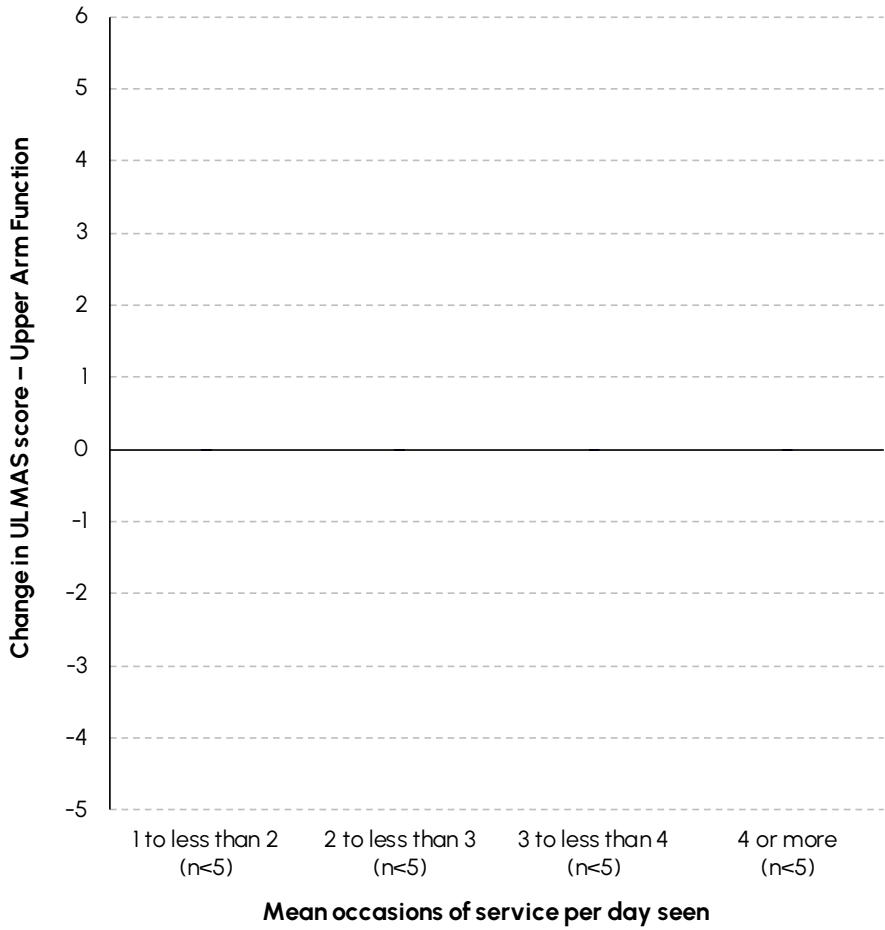


All Ambulatory 2024 (n=244)

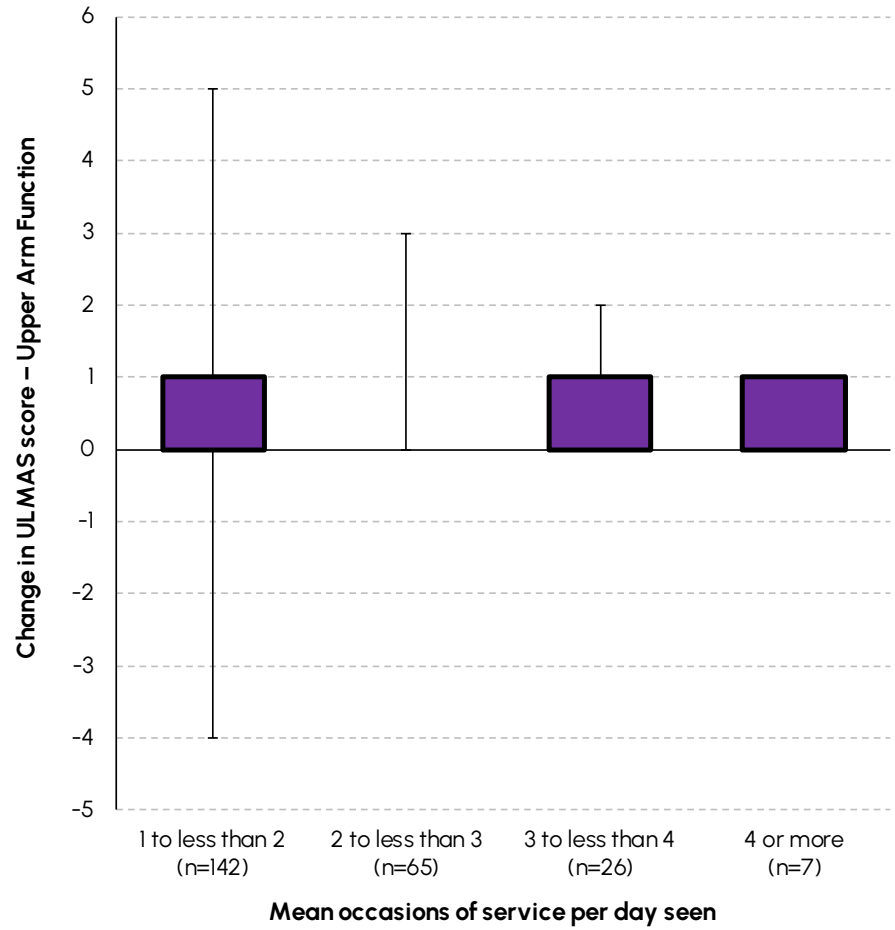


Change in ULMAS score by OOS/day seen – Upper arm function

Your Service 2024



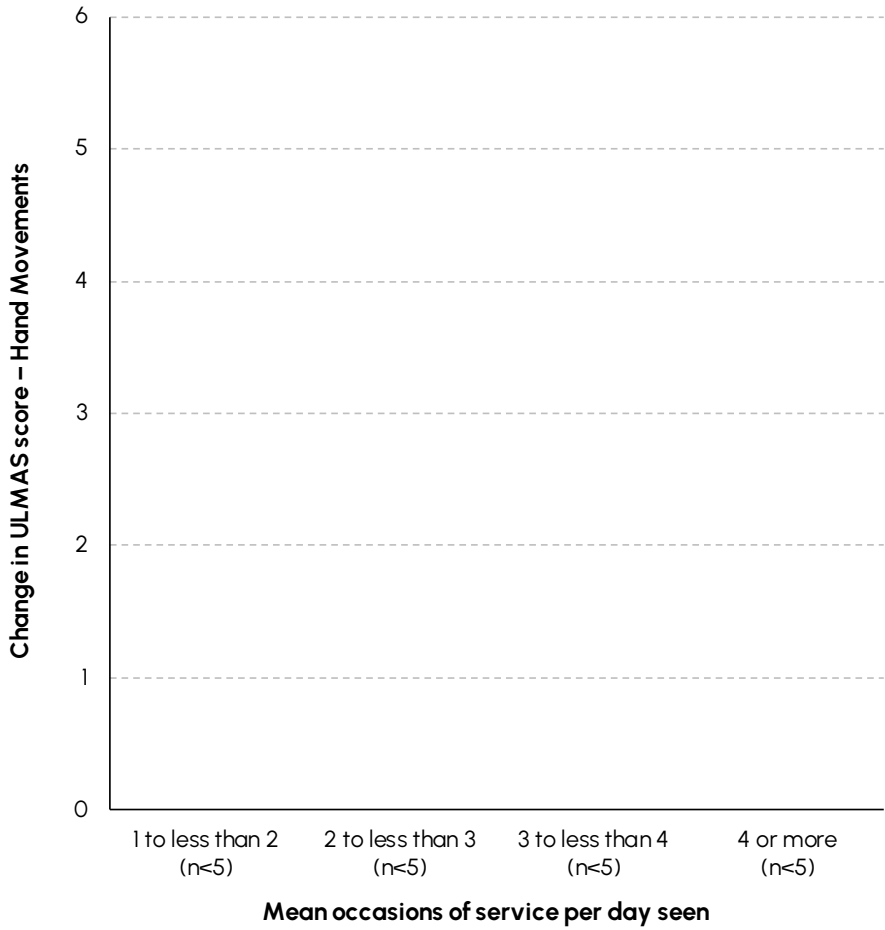
All Ambulatory 2024



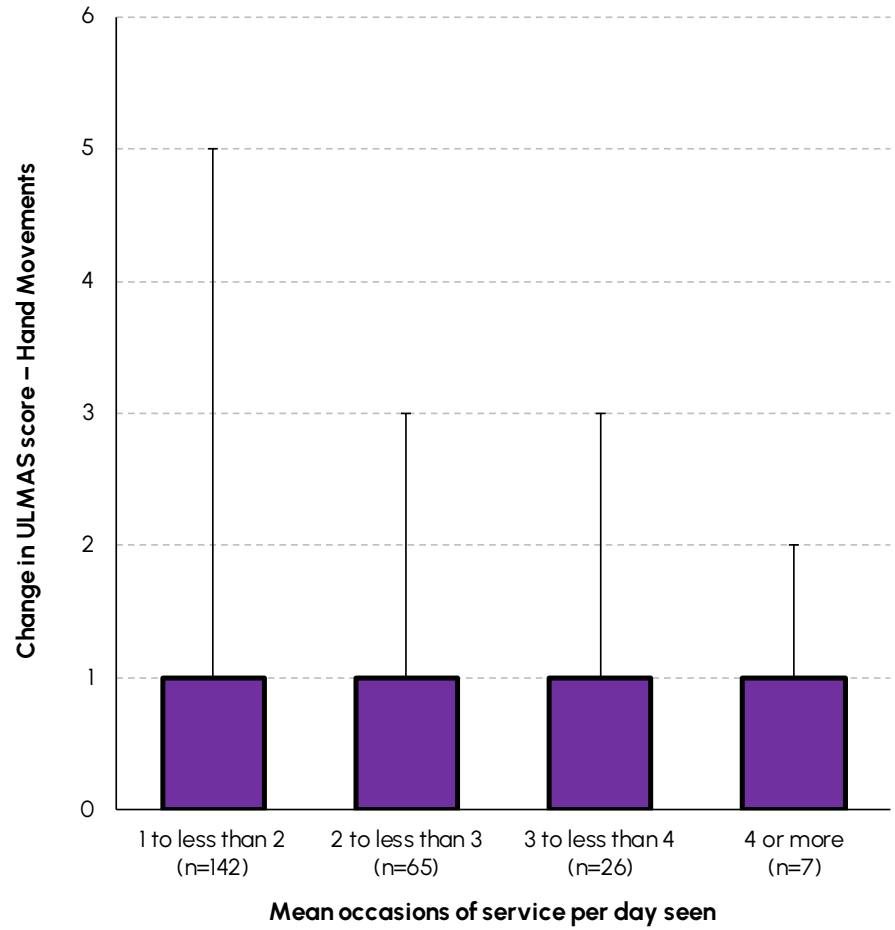
NOTE: To understand how to interpret these figures please refer to Appendix 3

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

Your Service 2024



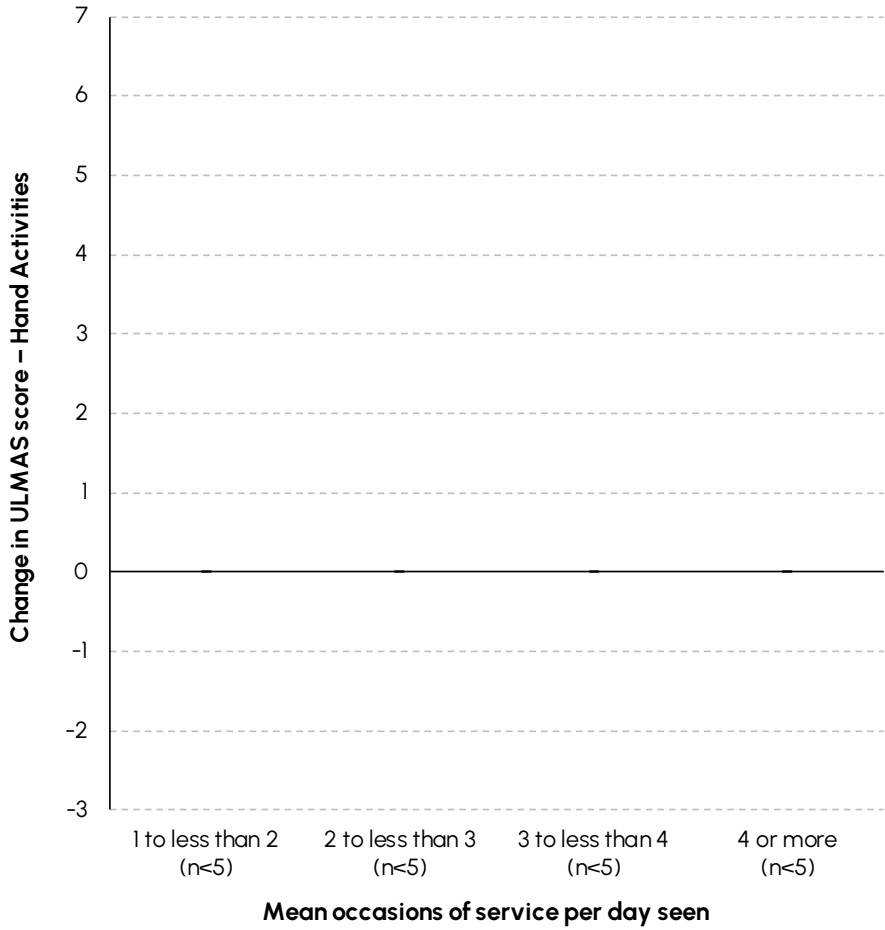
All Ambulatory 2024



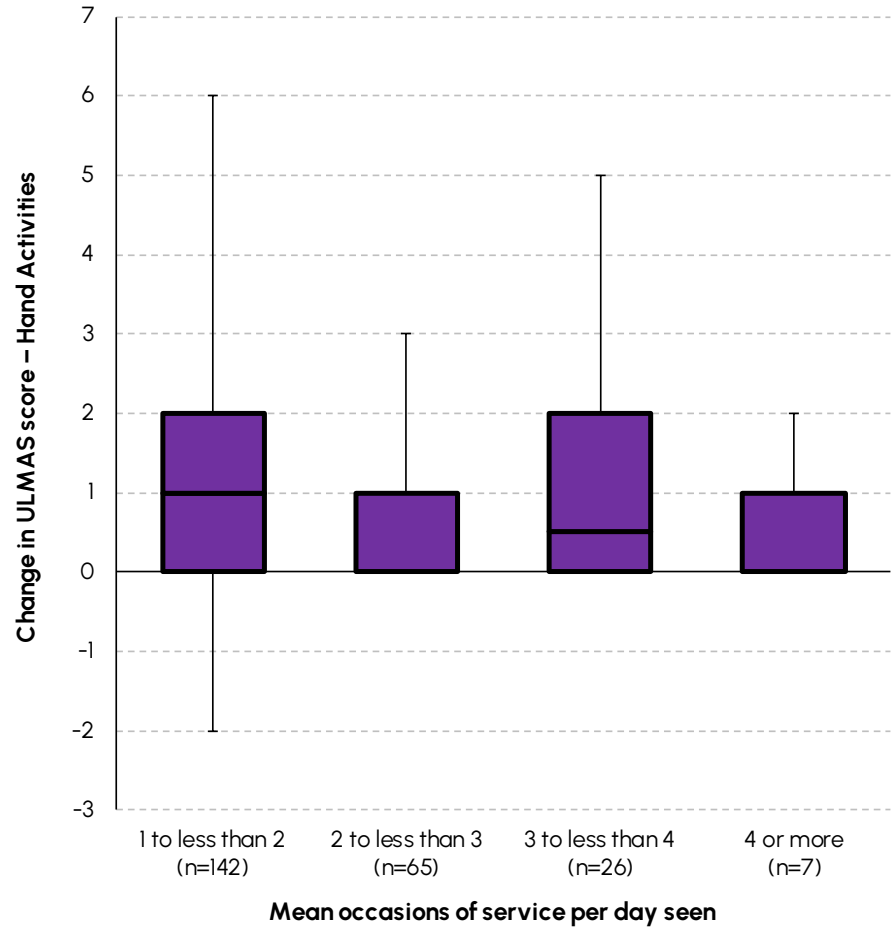
NOTE: To understand how to interpret these figures please refer to Appendix 3

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

Your Service 2024



All Ambulatory 2024

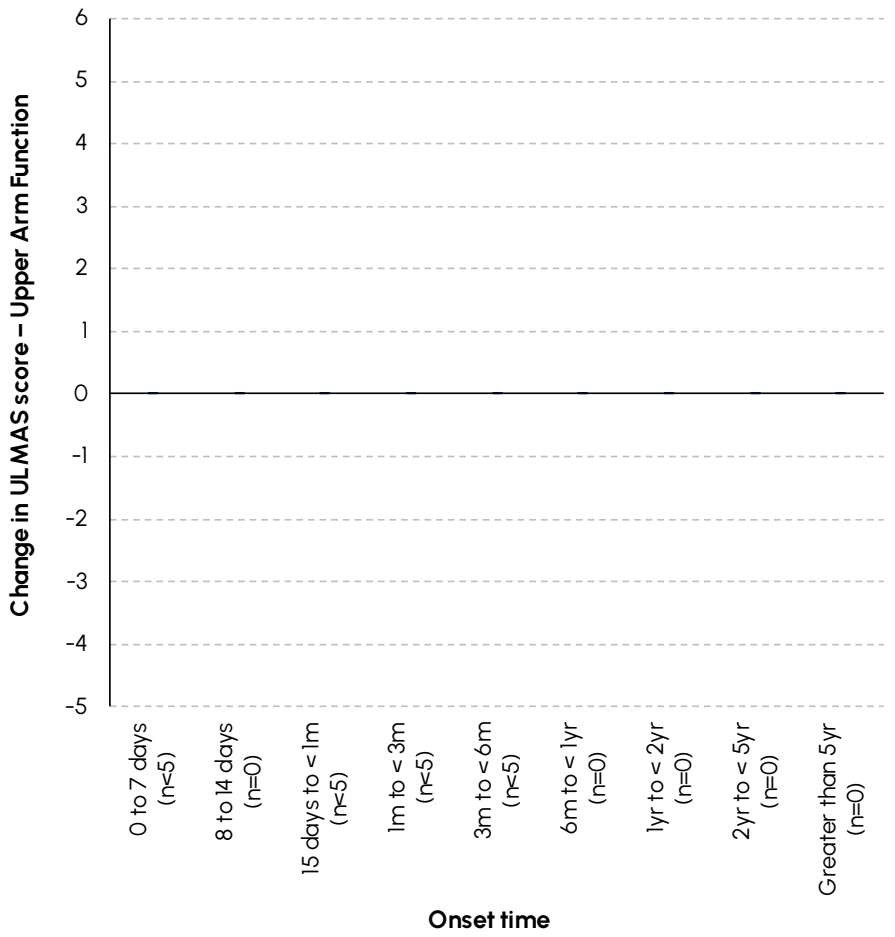


NOTE: To understand how to interpret these figures please refer to Appendix 3

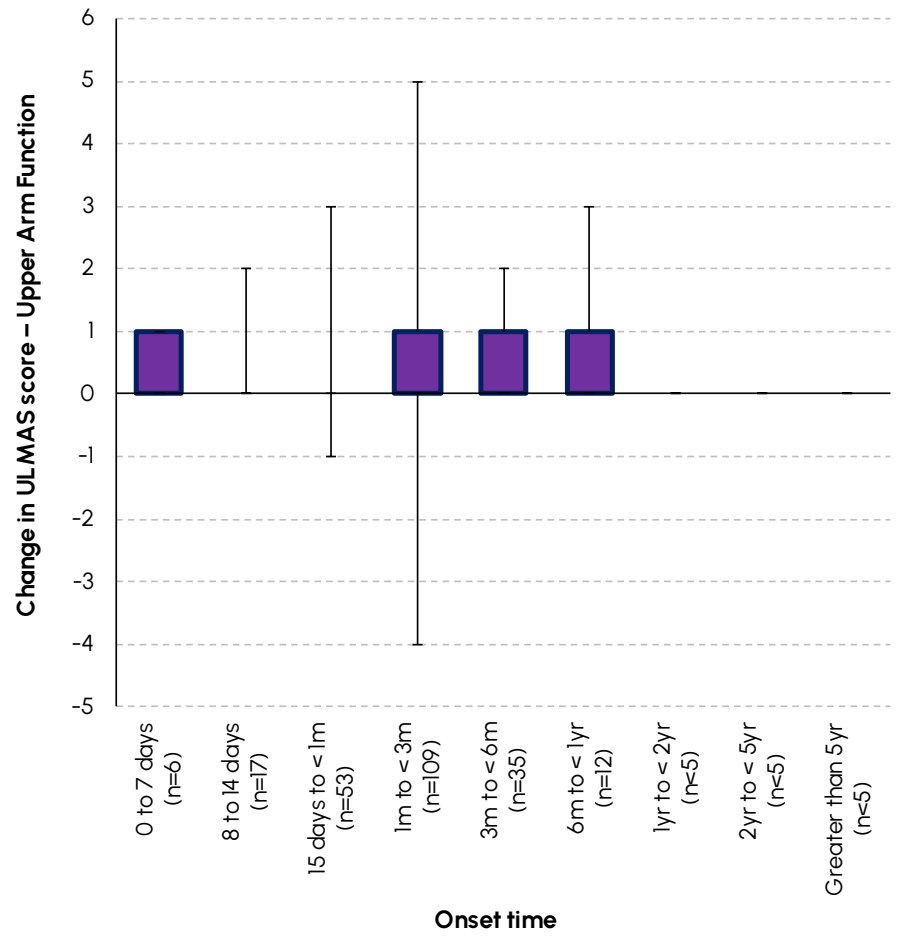
Change in ULMAS score by onset time – Upper arm function



Your Service 2024



All Ambulatory 2024

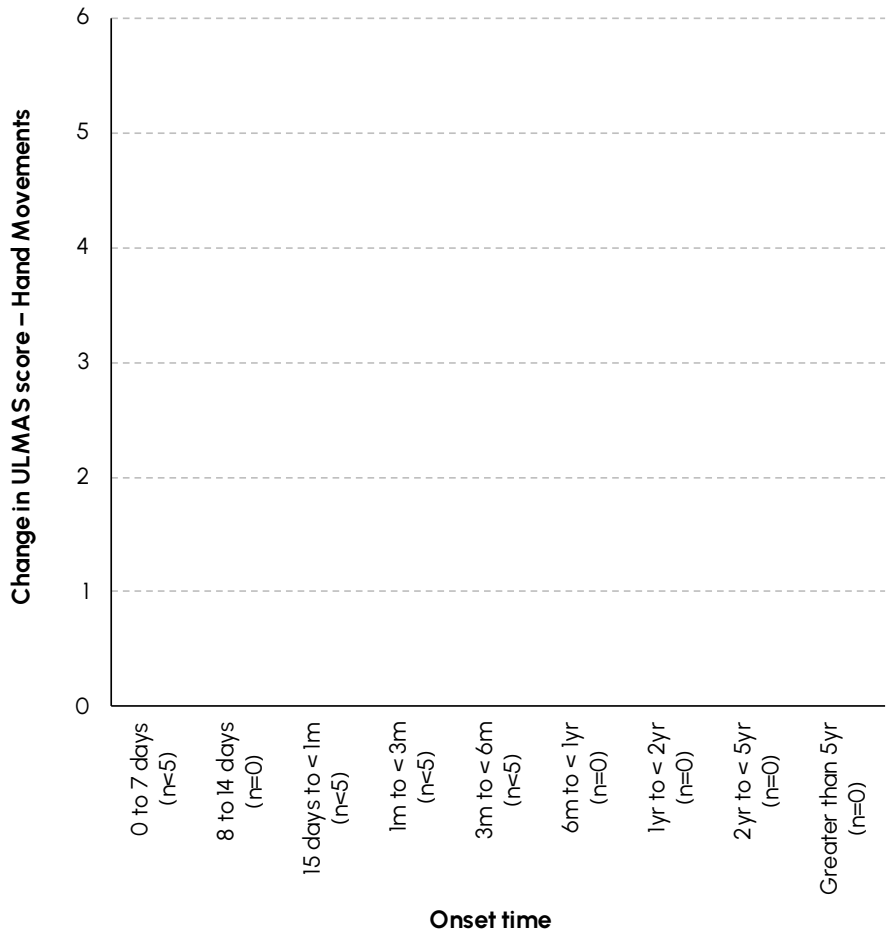


NOTE: To understand how to interpret these figures please refer to Appendix 3

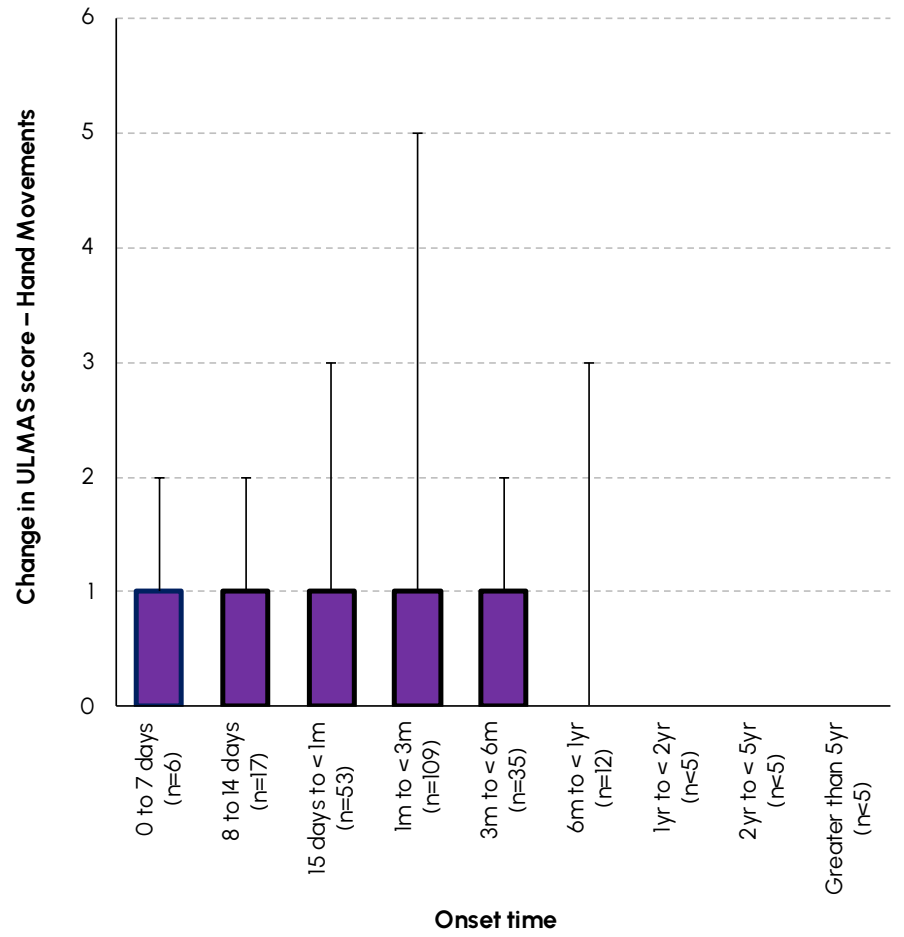
Change in ULMAS score by onset time – Hand movements



Your Service 2024



All Ambulatory 2024

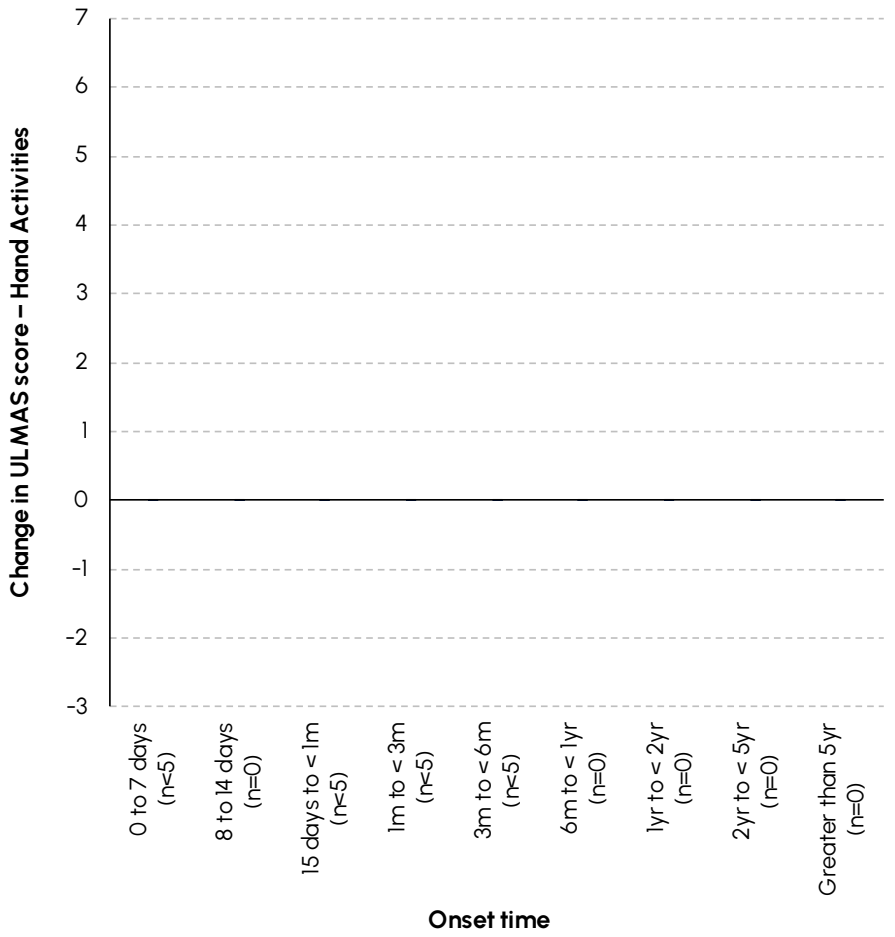


NOTE: To understand how to interpret these figures please refer to Appendix 3

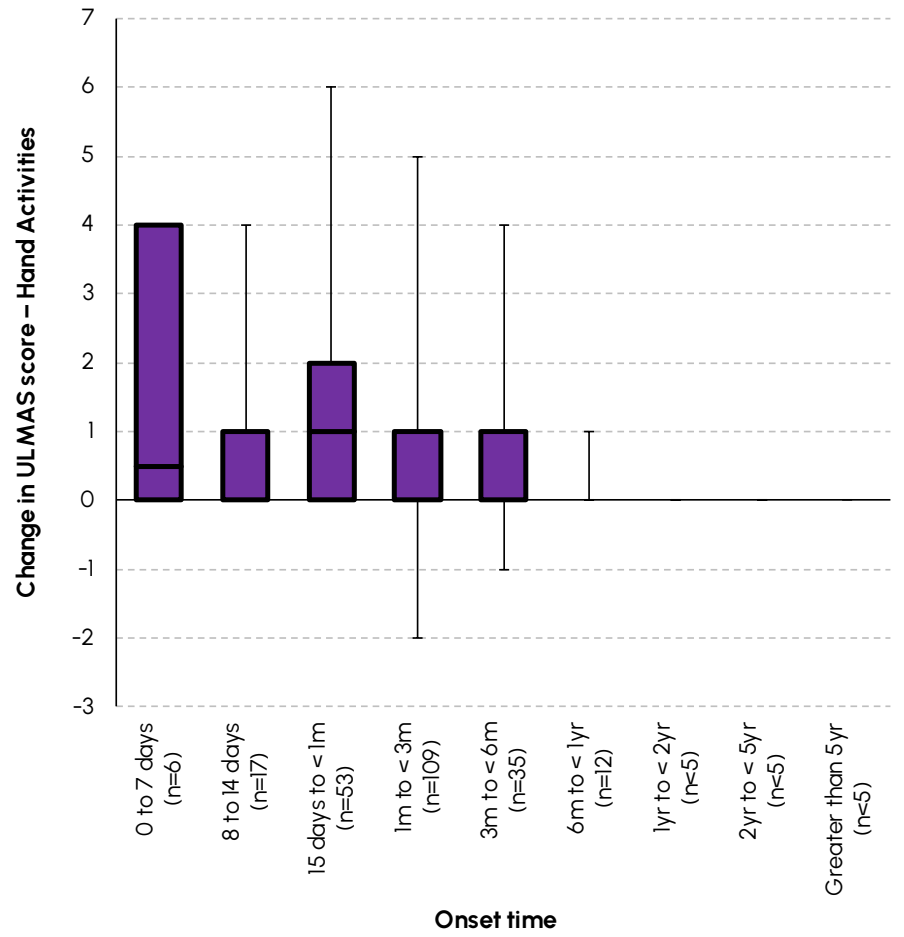
Change in ULMAS score by onset time – Hand activities



Your Service 2024



All Ambulatory 2024



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:

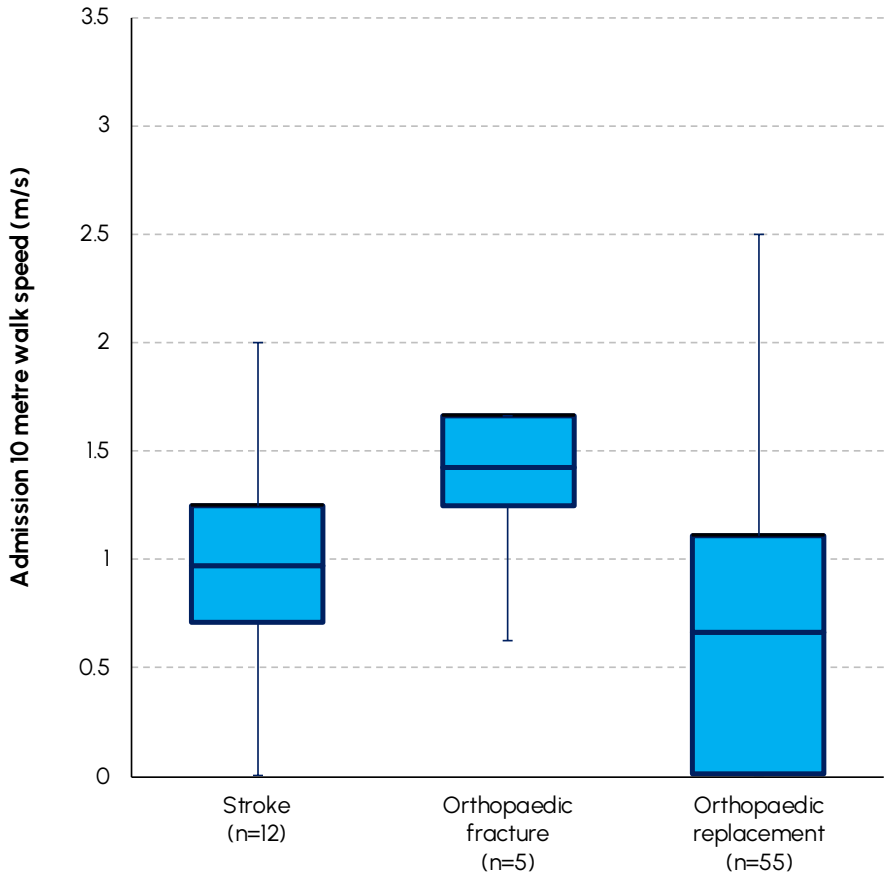
- Stroke
- Lower limb orthopaedic injury or joint replacement
- Amputation of lower limb (optional measure)

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

Admission timed 10 metre walk test speed by impairment

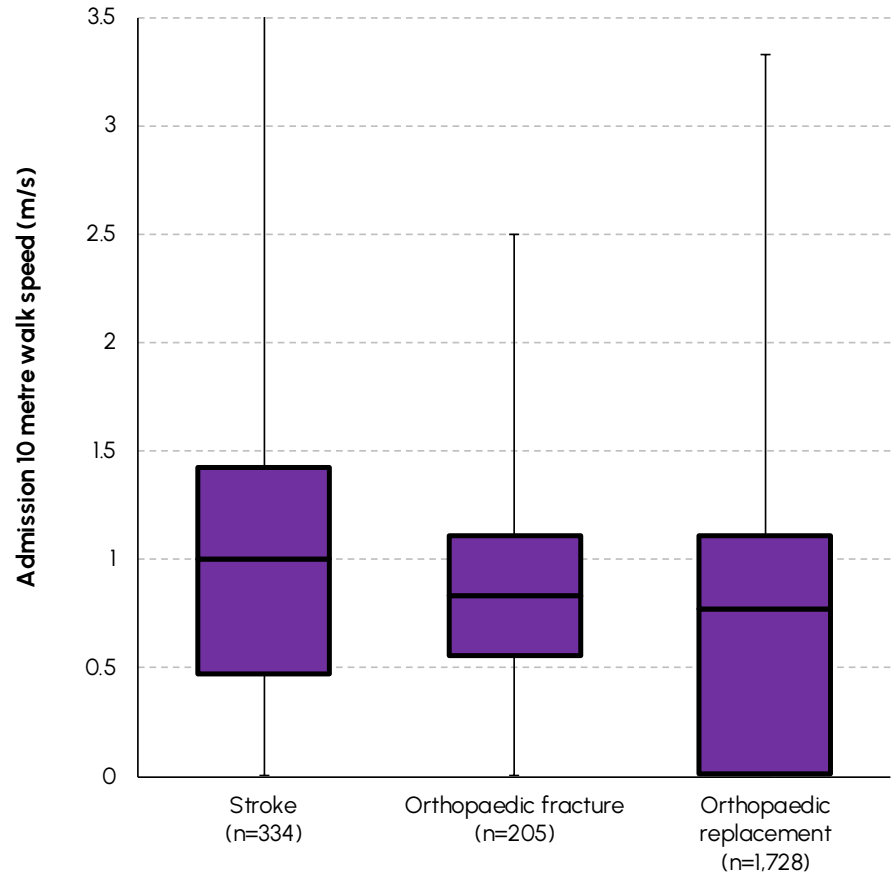


Your Service 2024



Note: All admissions.

All Ambulatory 2024



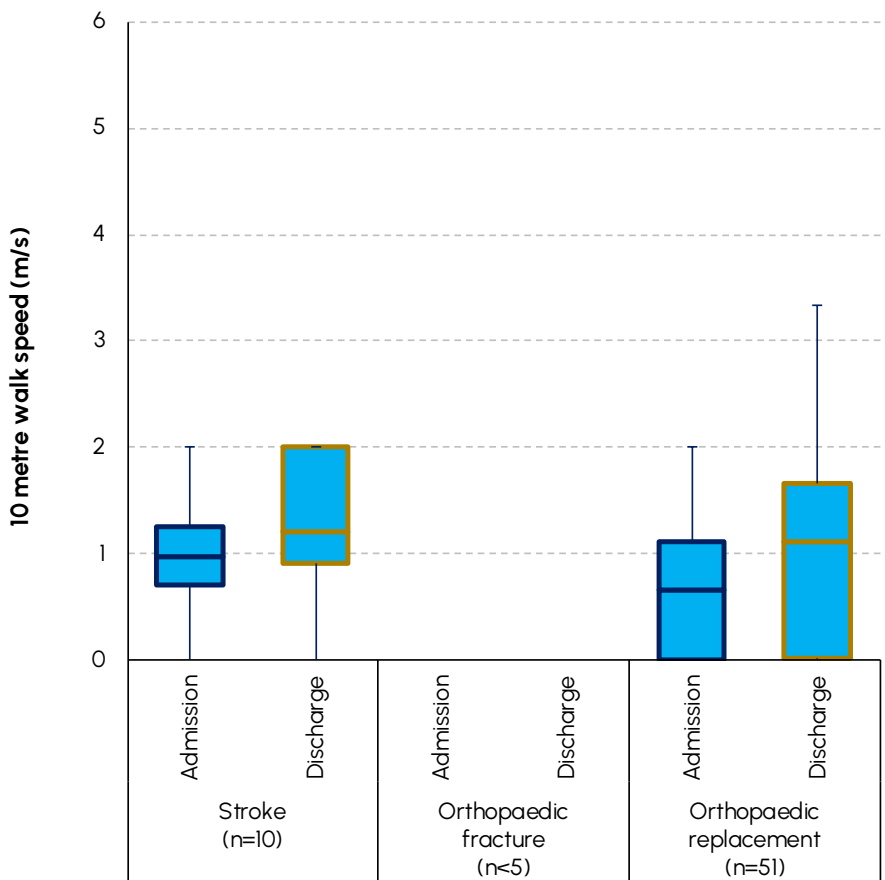
Note: All admissions.

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

Admission and discharge timed 10 metre walk test speed by impairment

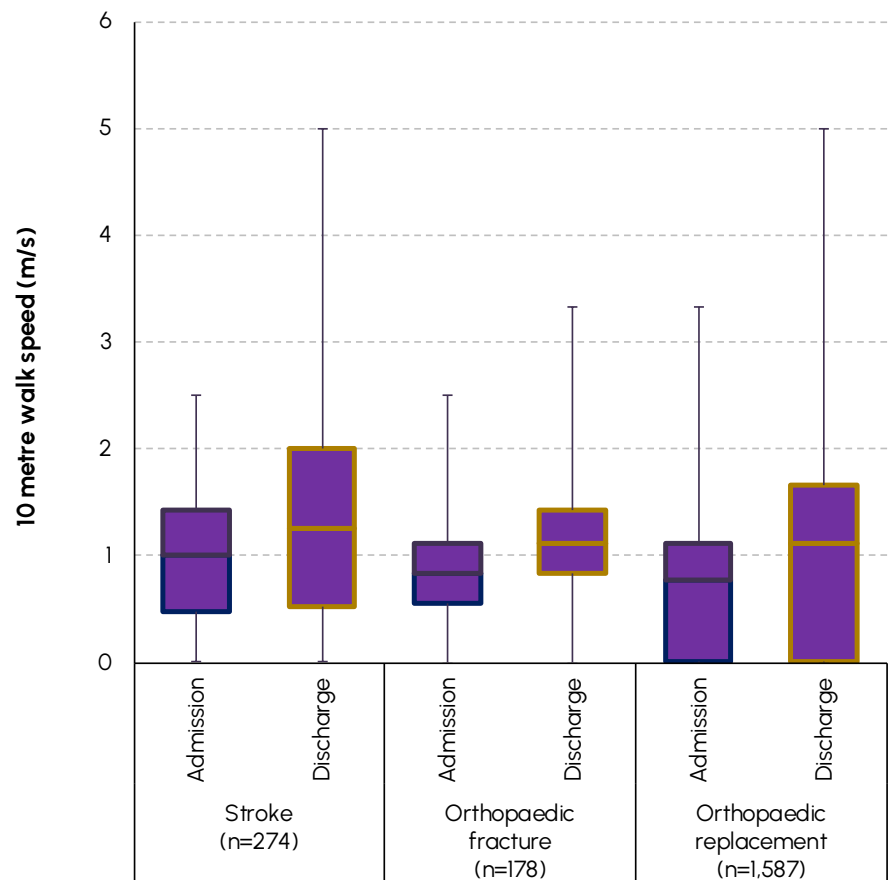


Your Service 2024



Note: Completed episodes only.

All Ambulatory 2024



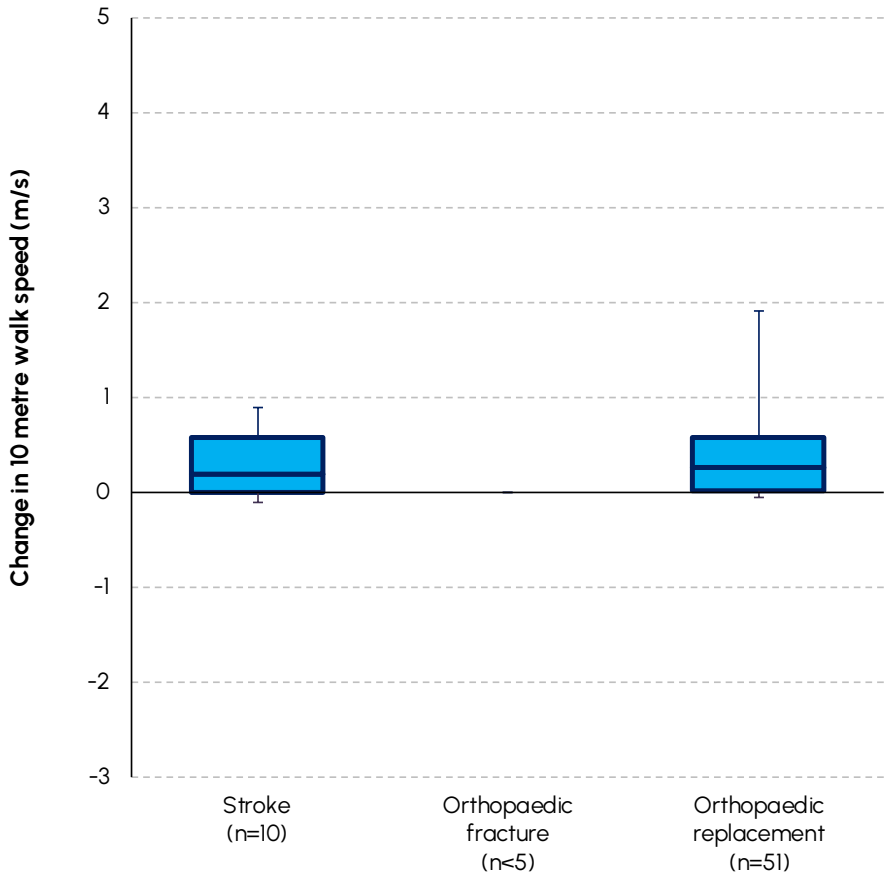
Note: Completed episodes only.

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

Change in 10 metre walk speed by impairment

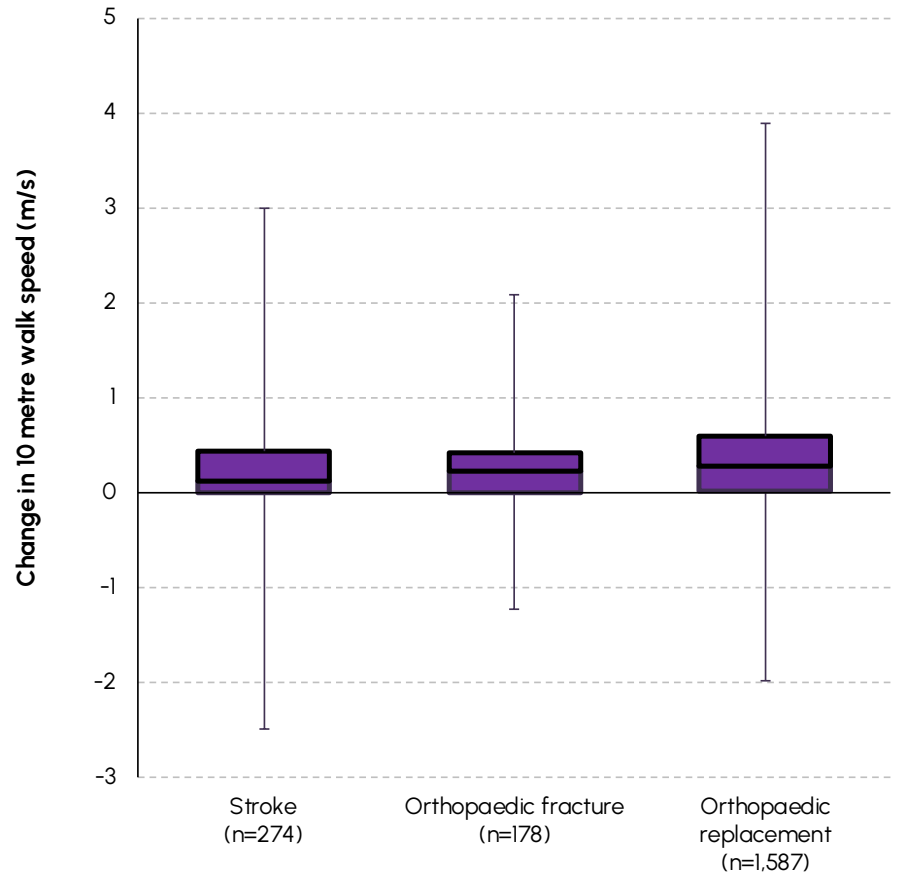


Your Service 2024



Note: Completed episodes only.

All Ambulatory 2024



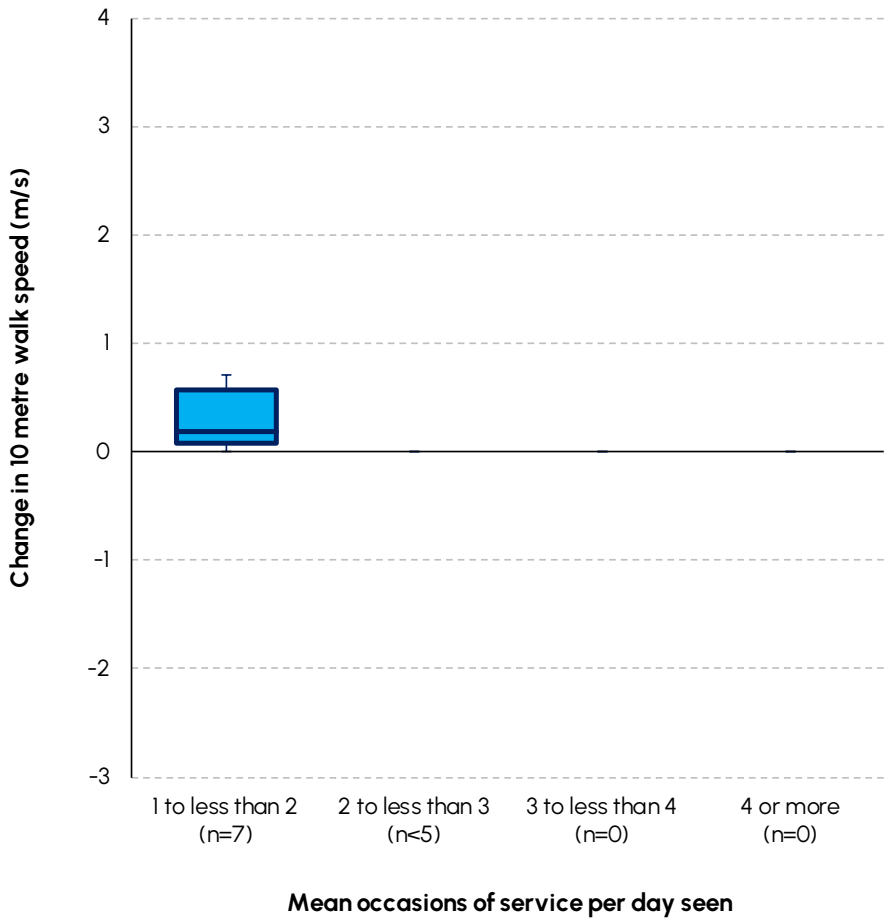
Note: Completed episodes only.

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

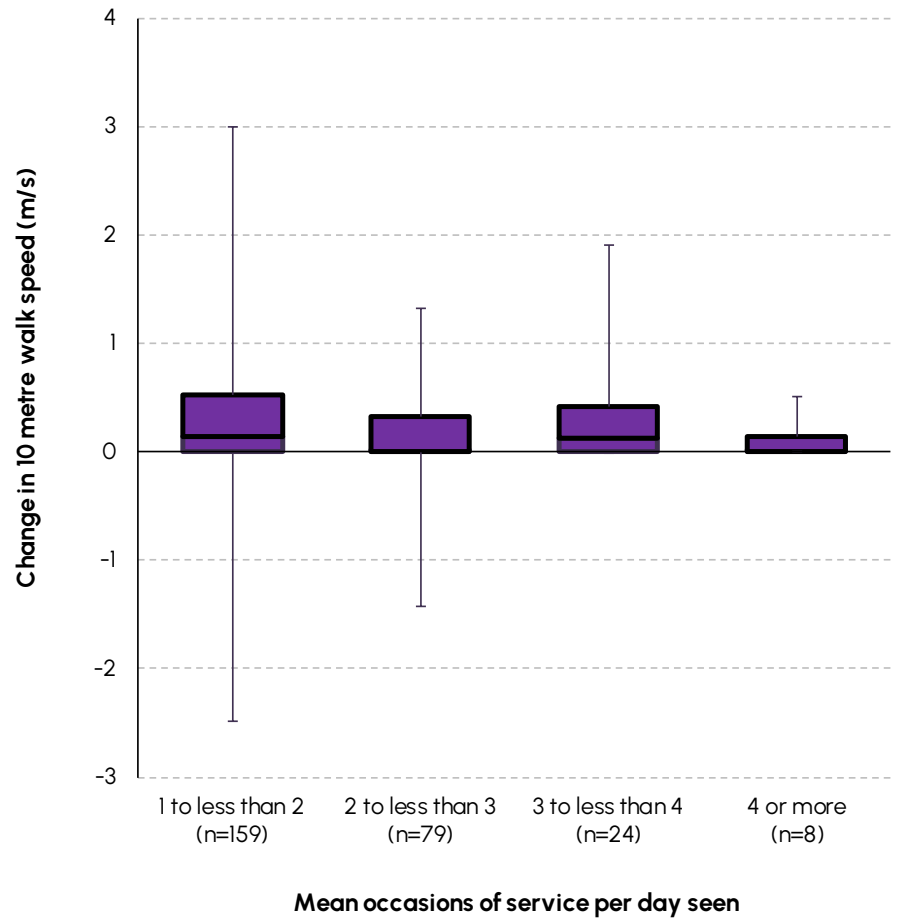
Change in 10 metre walk speed by OOS/day seen – Stroke



Your Service 2024



All Ambulatory 2024

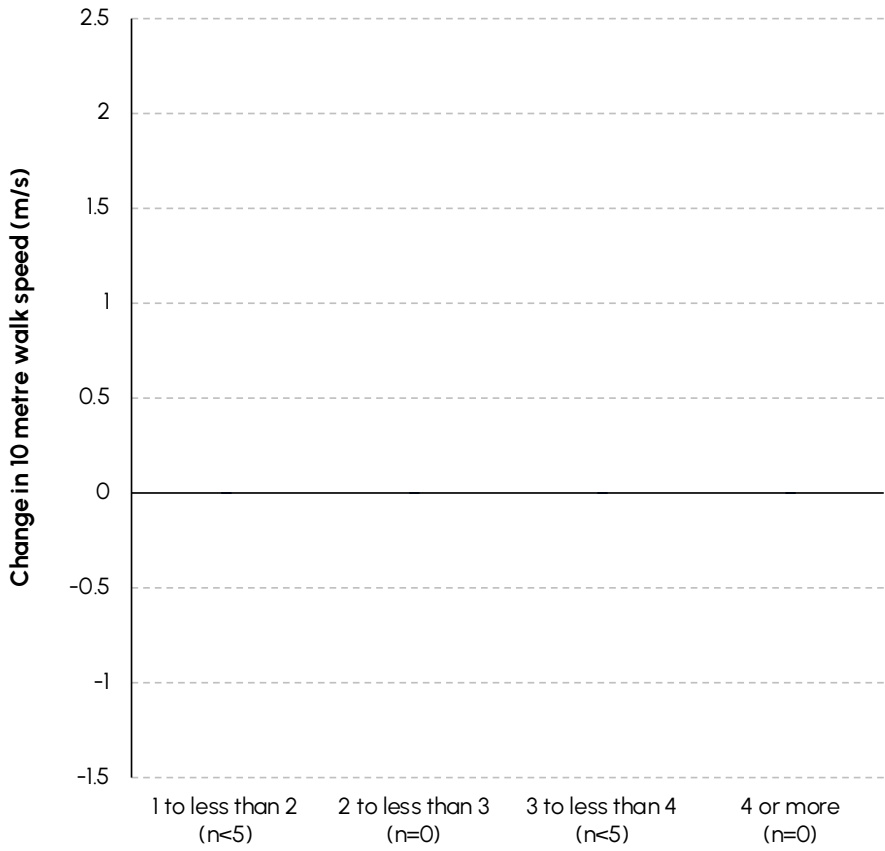


NOTE: To understand how to interpret these figures please refer to Appendix 3

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

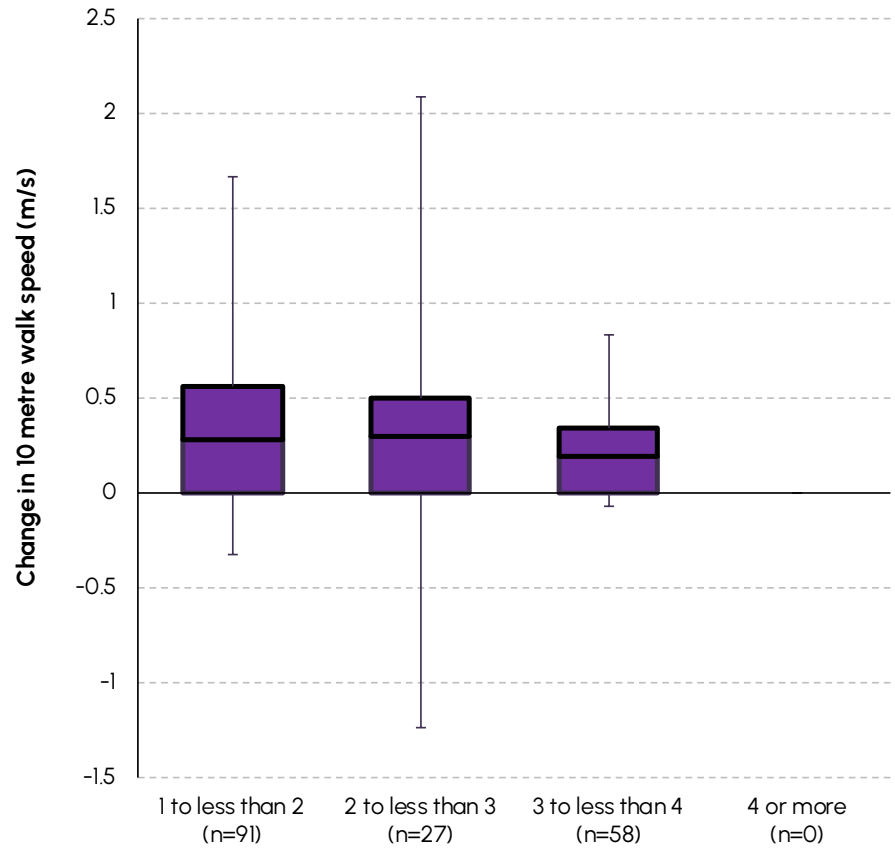


Your Service 2024



Mean occasions of service per day seen

All Ambulatory 2024



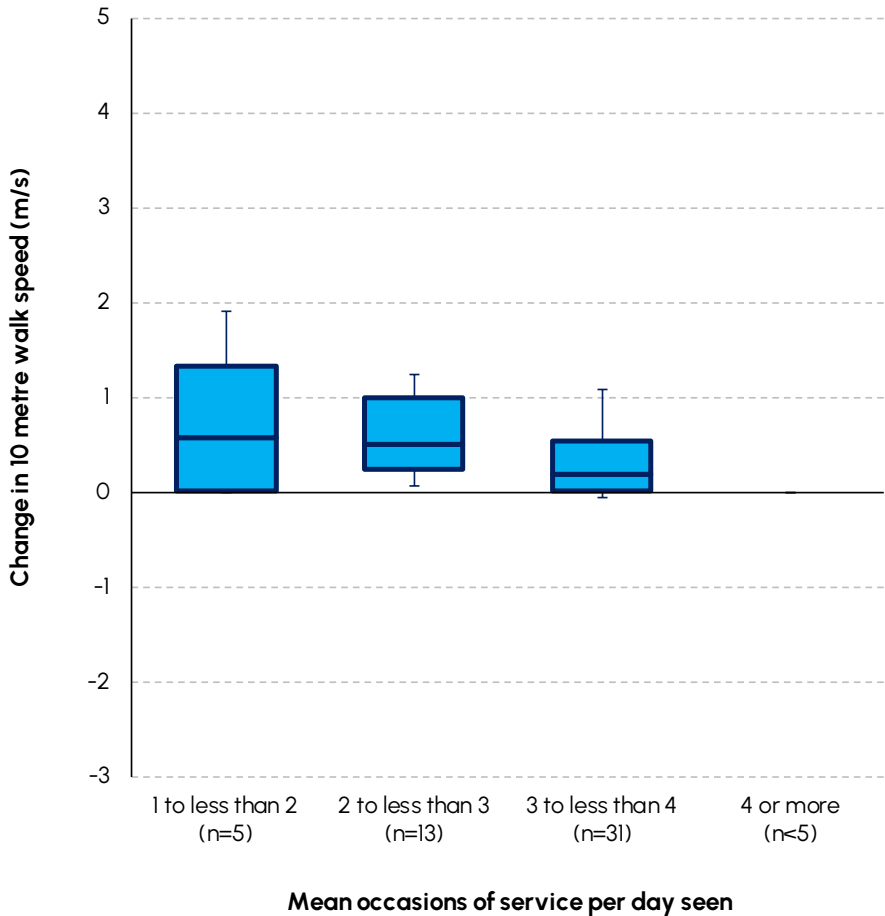
Mean occasions of service per day seen

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

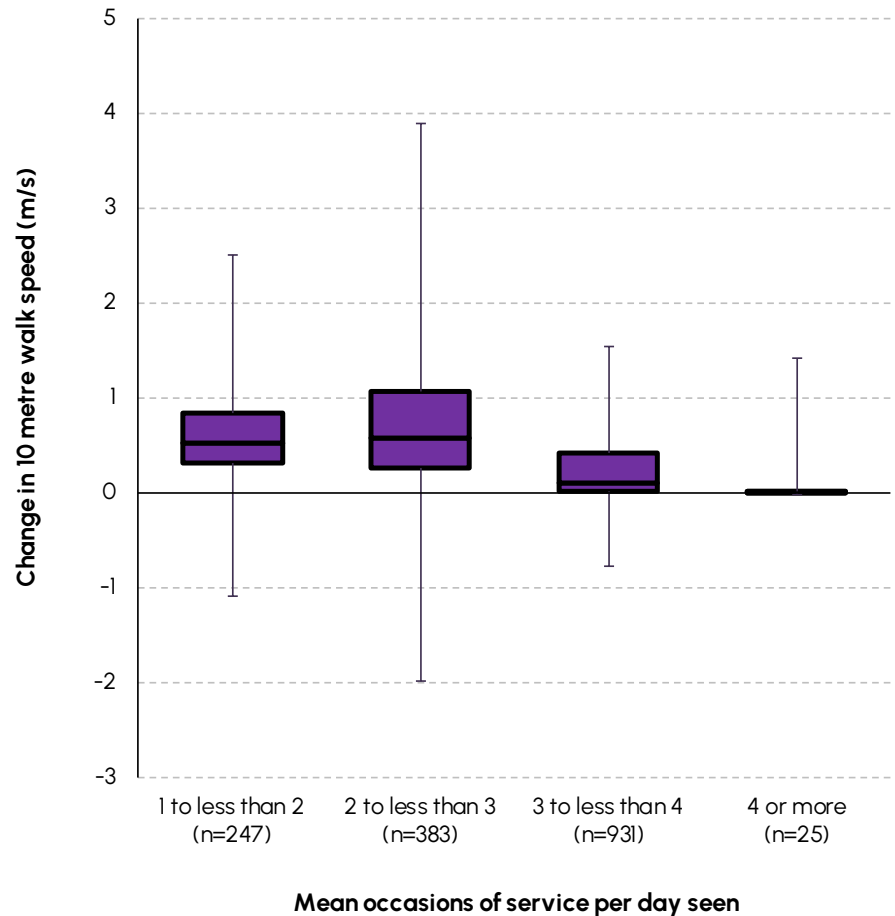
Change in 10 metre walk speed by OOS/day seen – Orthopaedic replacements



Your Service 2024



All Ambulatory 2024



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:

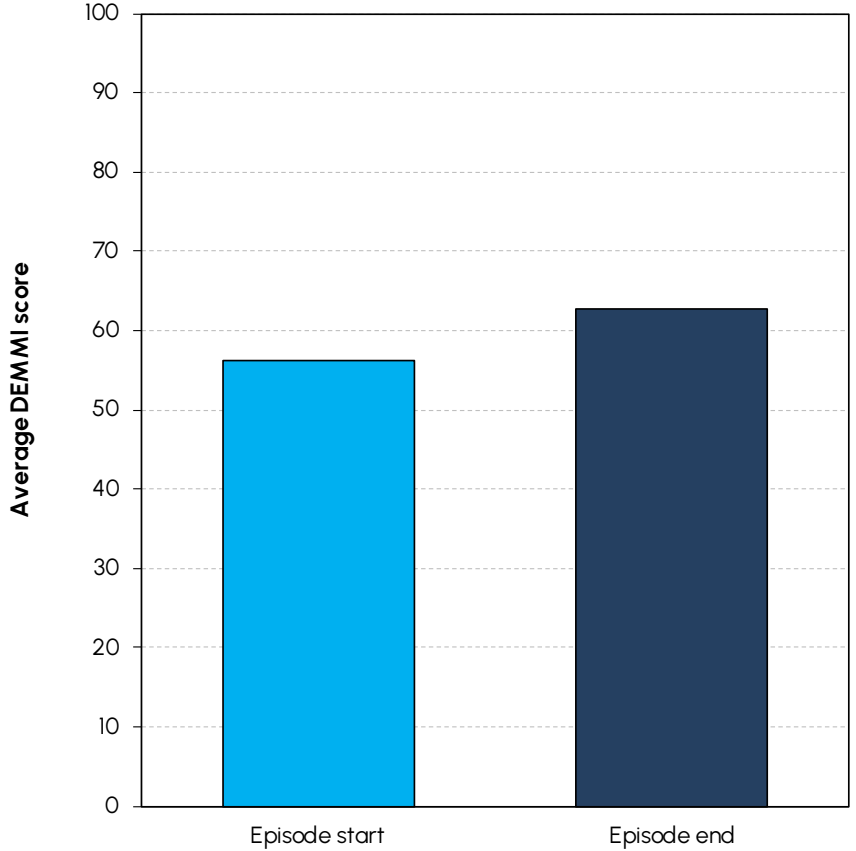
- 16.1 - Reconditioning following surgery
- 16.2 - Reconditioning following medical illness
- 16.3 - Cancer rehabilitation

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

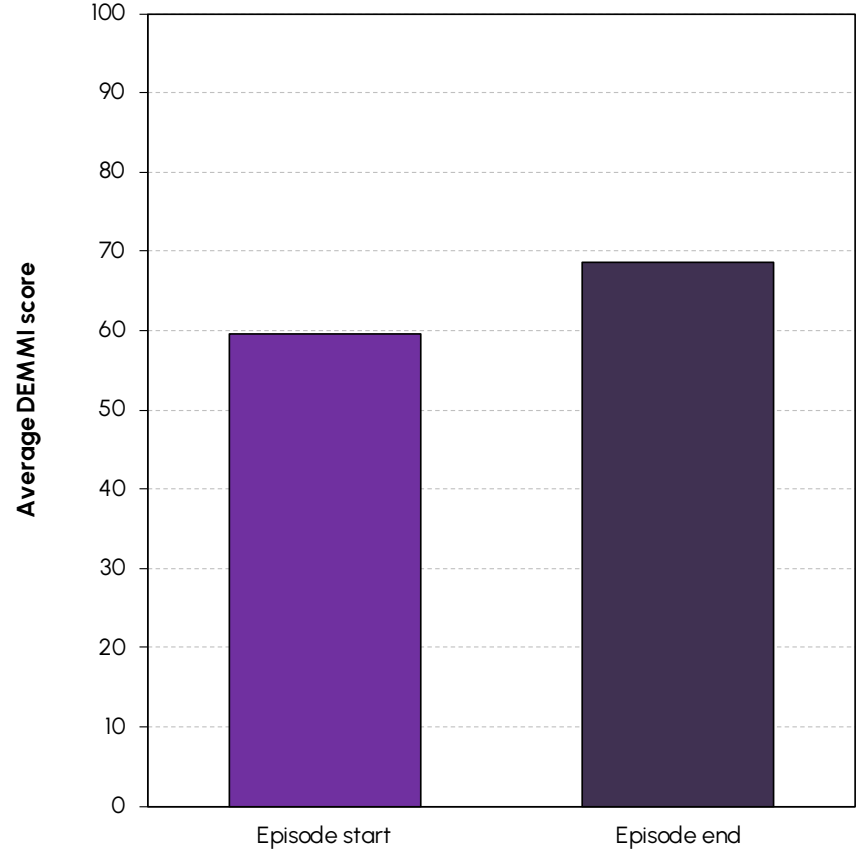
Average DEMMI start and end score



Your Service 2024 (n=5)



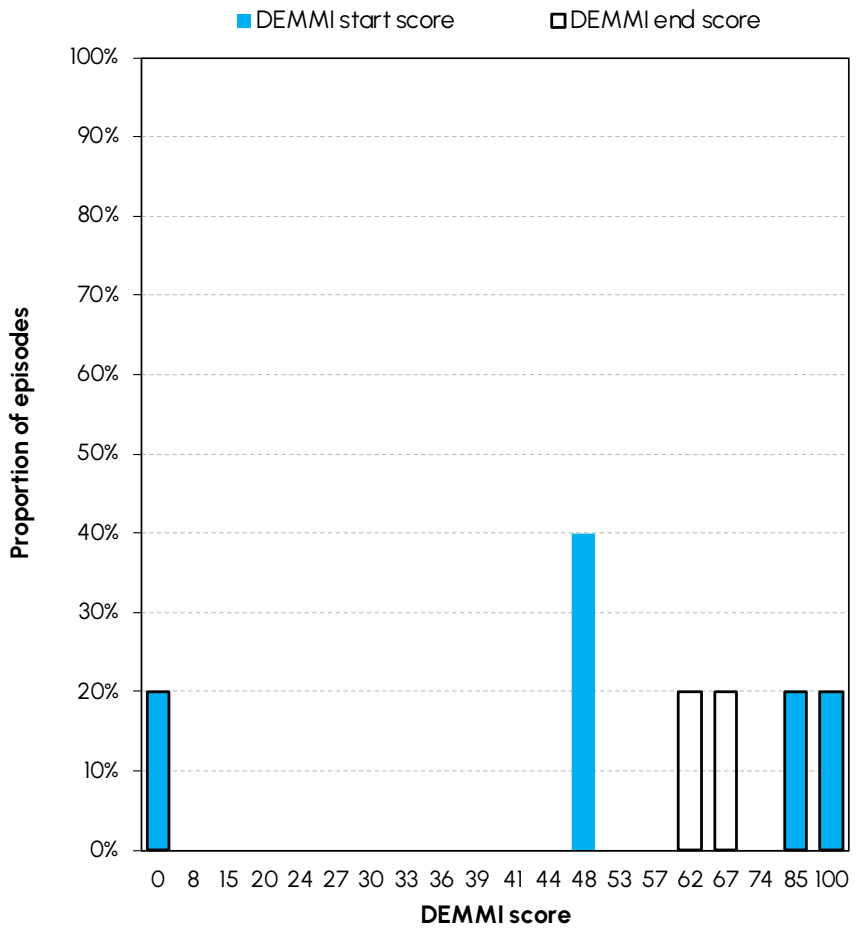
All Ambulatory 2024 (n=278)



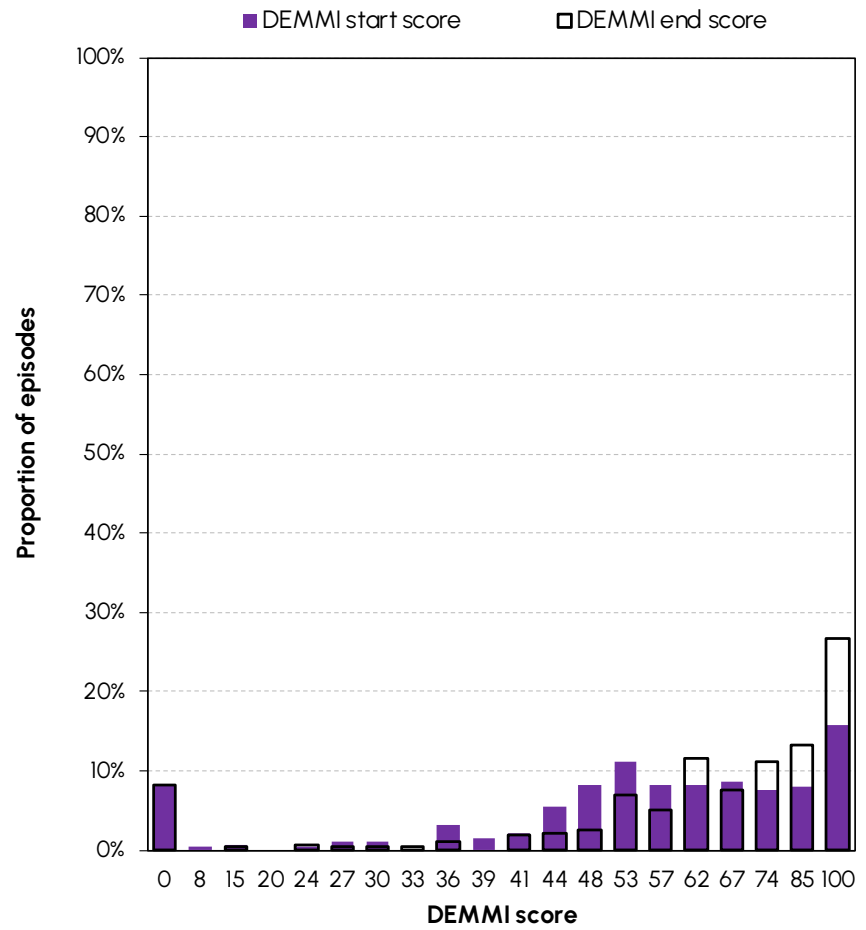
DEMMI start and end total – all episodes



Your Service 2024 (n=5)



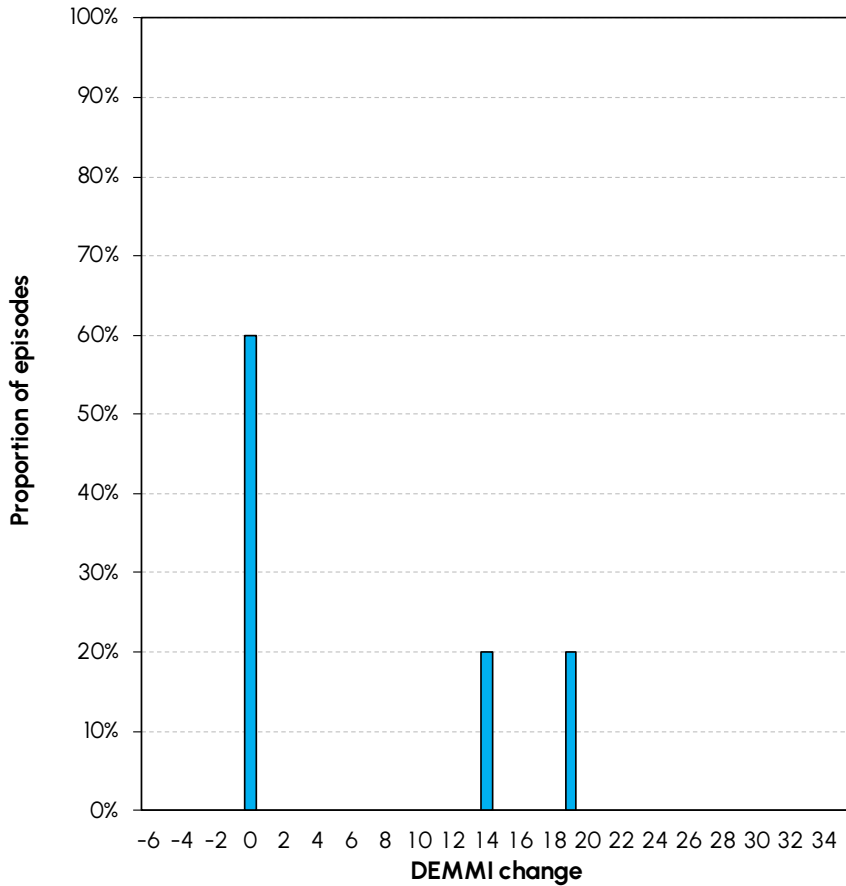
All Ambulatory 2024 (n=278)



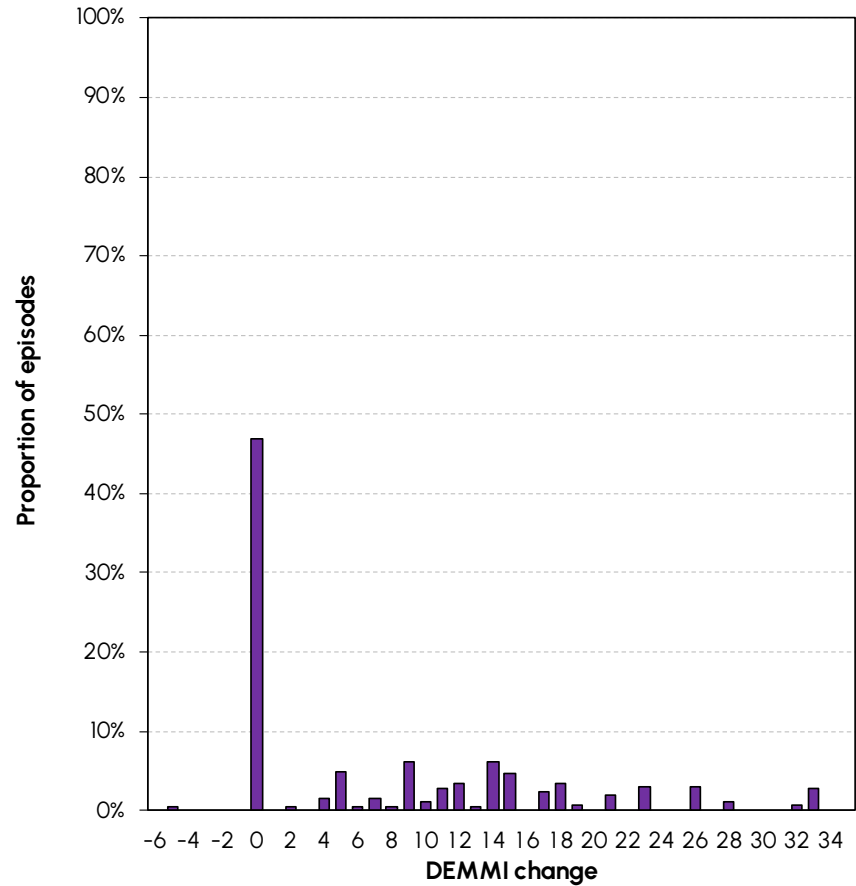
Change in DEMMI score – all episodes



Your Service 2024 (n=5)

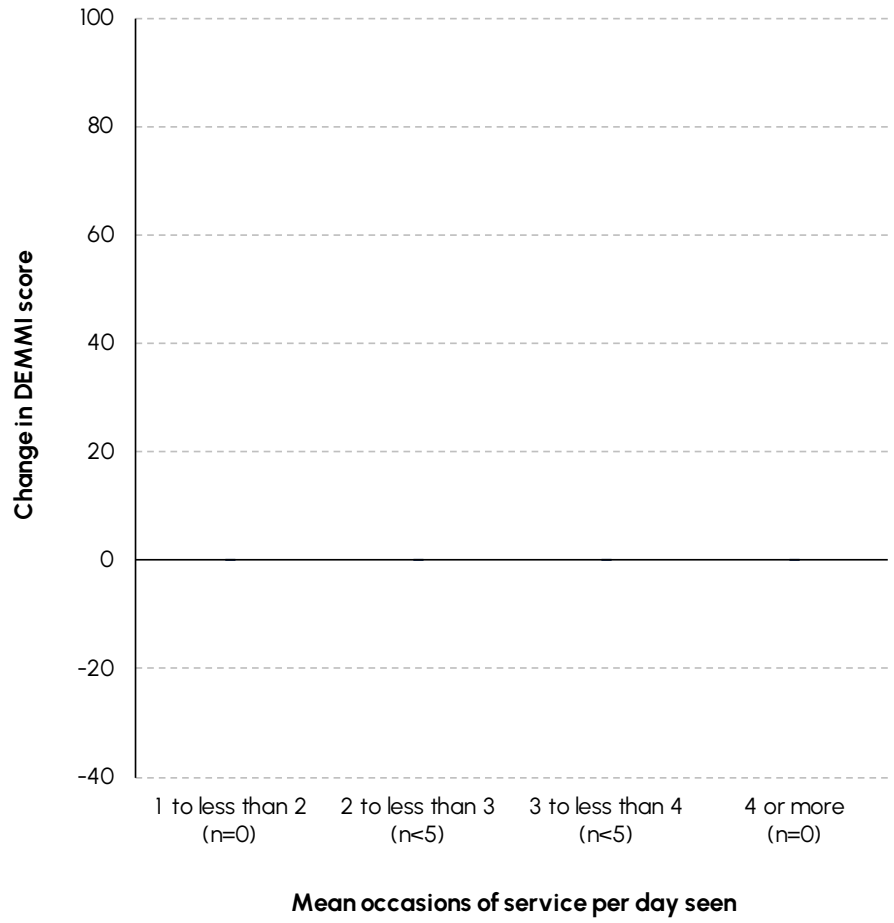


All Ambulatory 2024 (n=278)

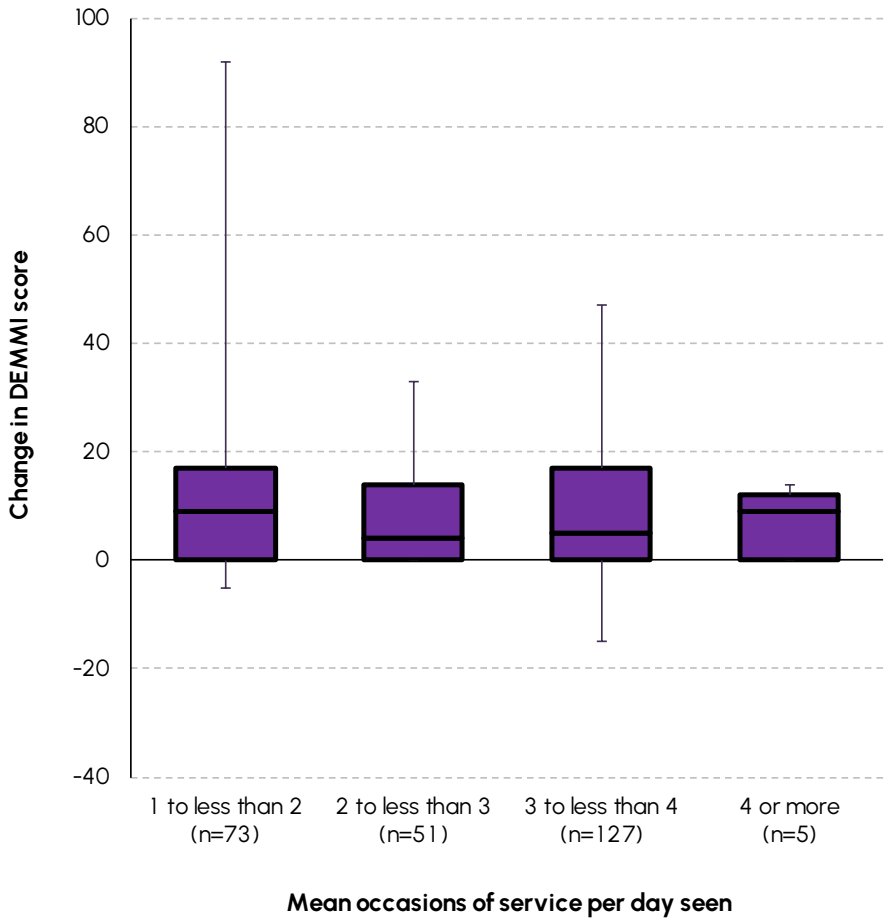


Change in DEMMI score by OOS/day seen – all episodes

Your Service 2024



All Ambulatory 2024

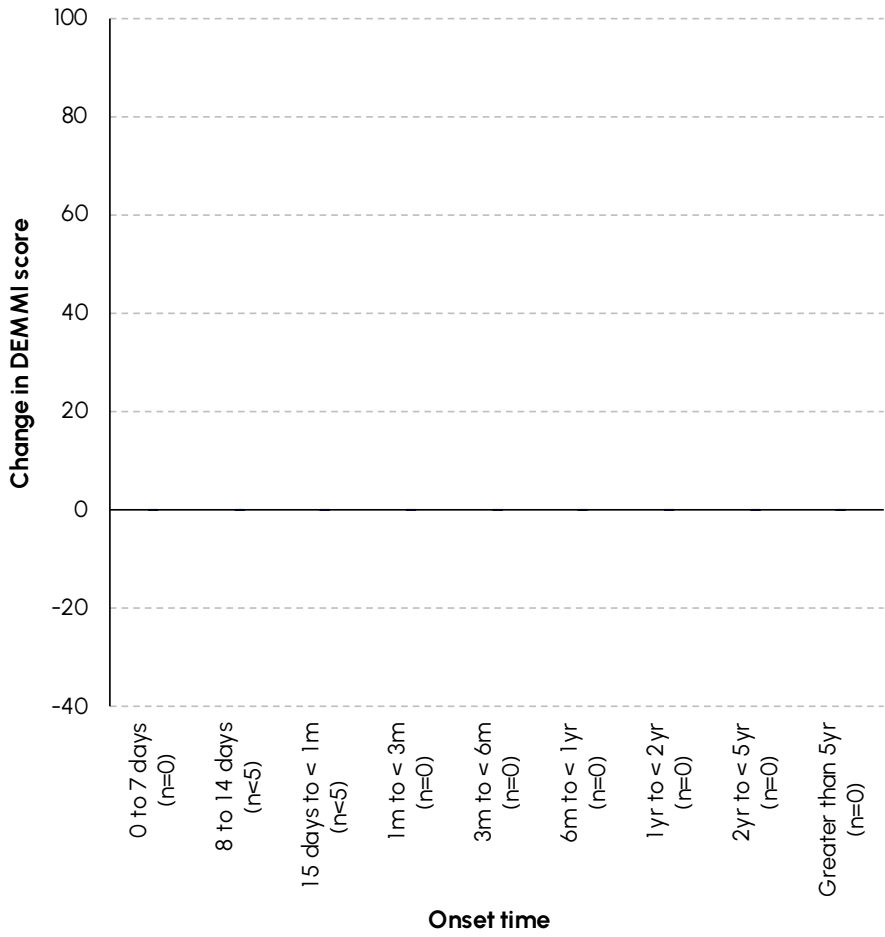


NOTE: To understand how to interpret these figures please refer to Appendix 3

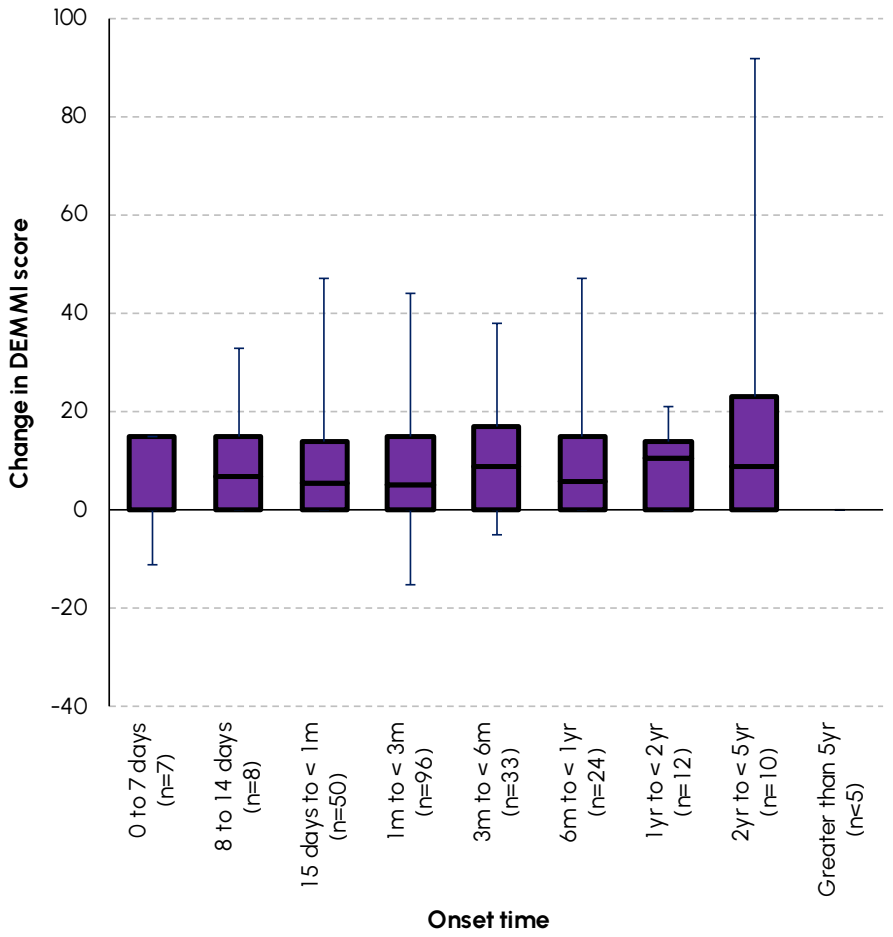
Change in DEMMI score by onset time – all episodes



Your Service 2024



All Ambulatory 2024



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

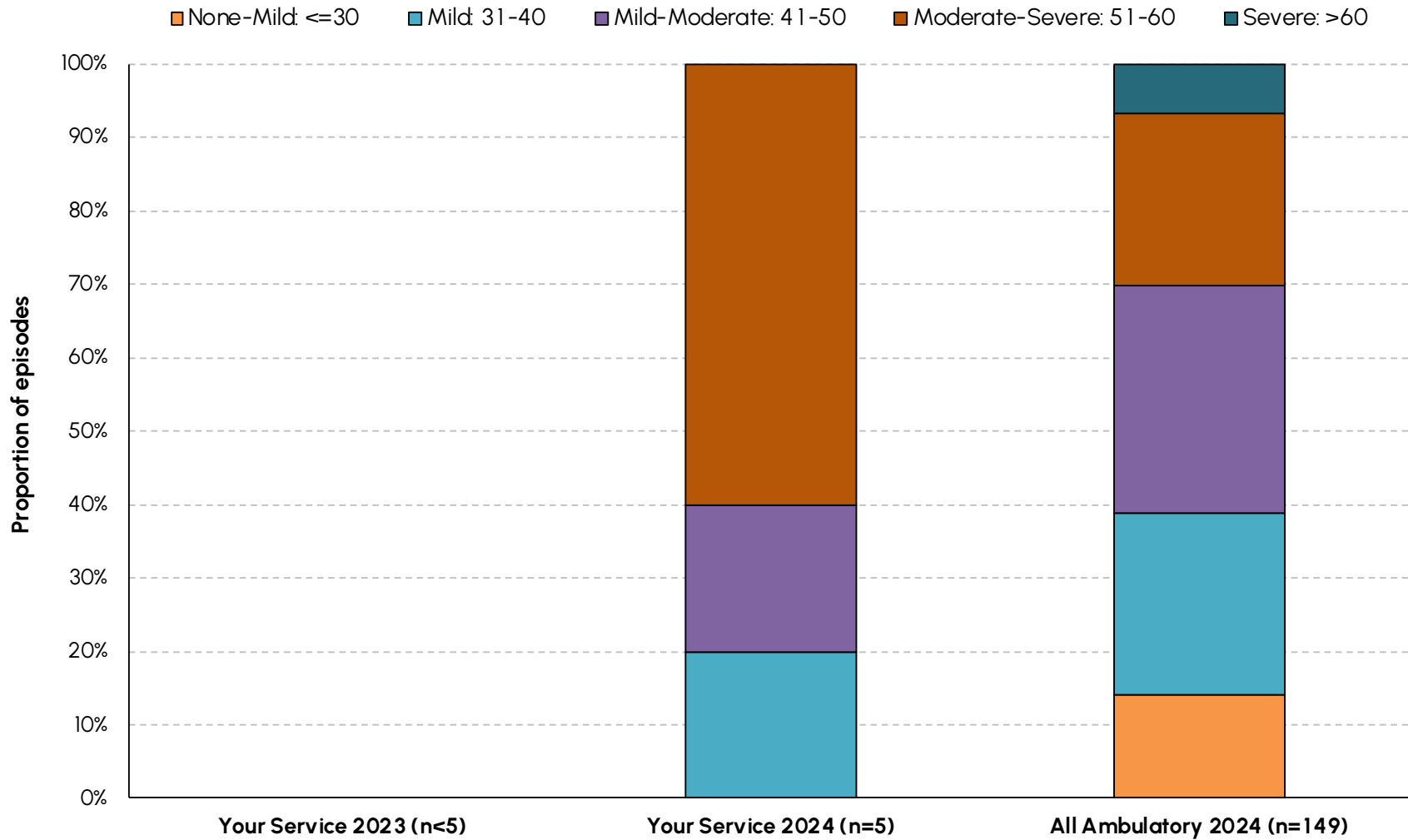
Mayo-Portland Adaptability Index-4 (MPAI-4)



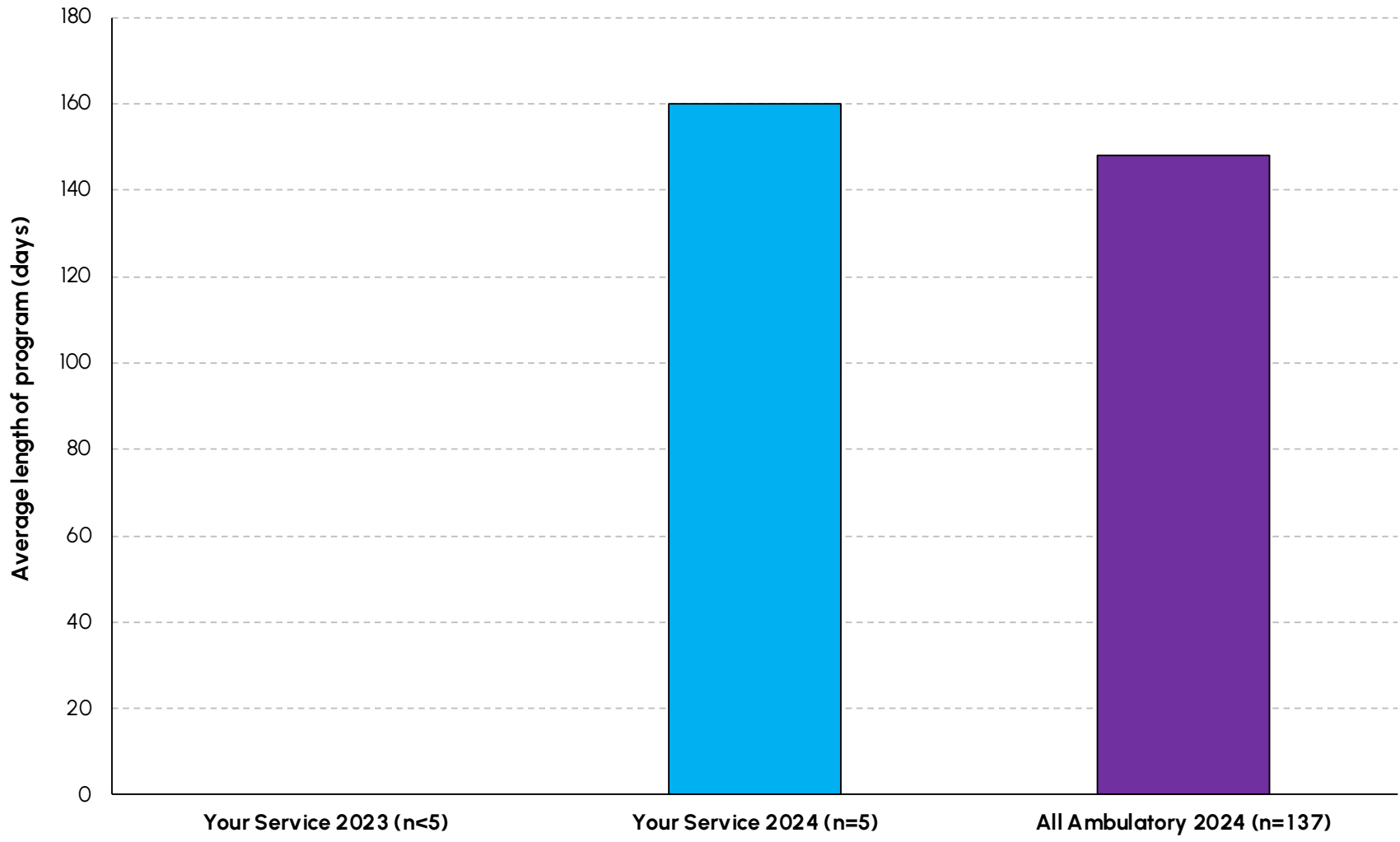
- This data item is collected in addition to the Australian Modified Lawton's IADL Scale for patients who may have functional impairment as a result of brain injury.
- The MPAI-4 was specifically designed for the evaluation of individuals during the post-acute period following ABI.
- The MPAI-4 consists 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



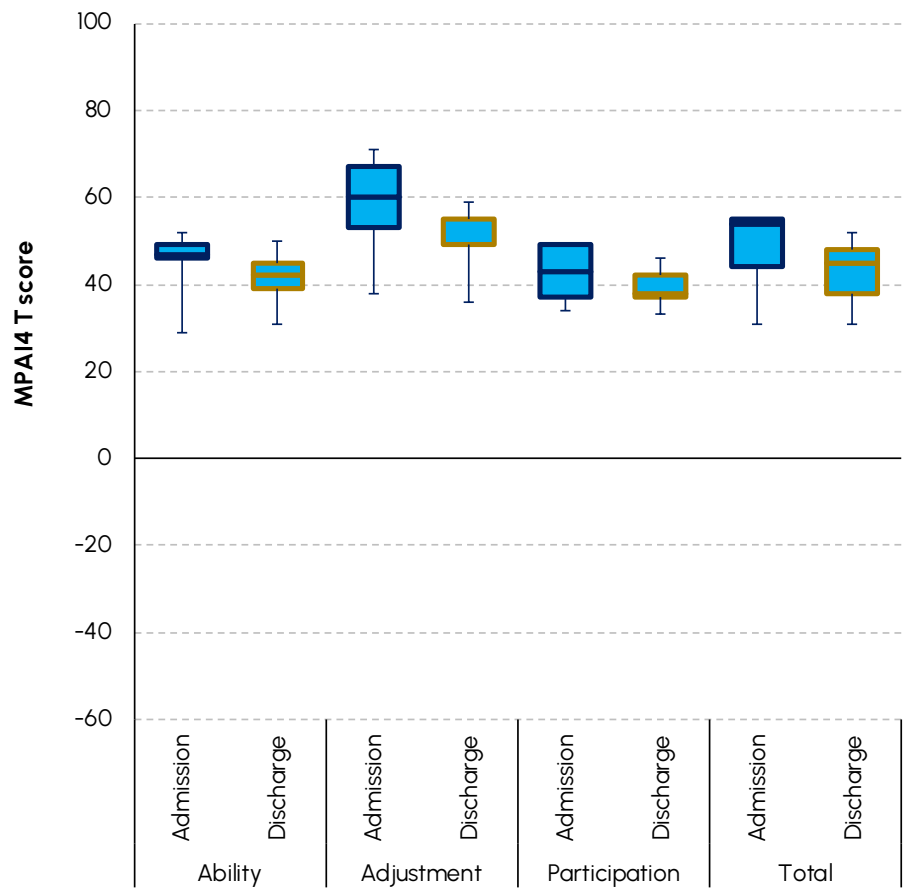
Average program length for episodes with submitted MPAI-4



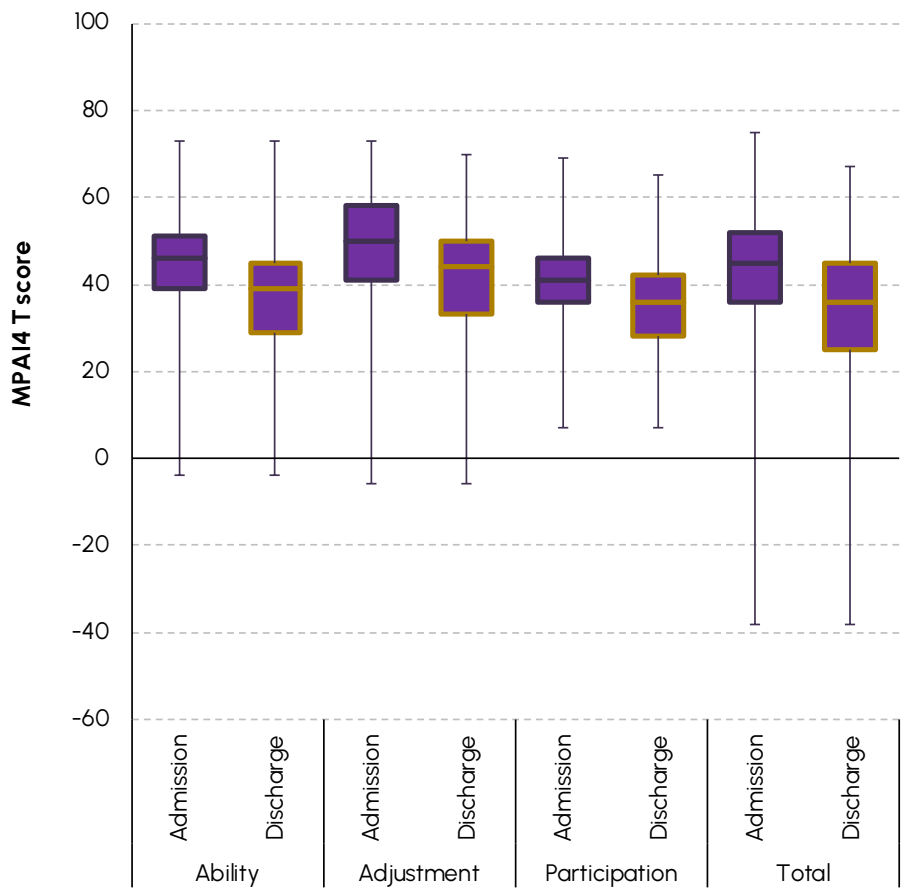
Admission and discharge T score distribution of spread by MPAI-4 index



Your Service 2024 (n=5)



All Ambulatory 2024 (n=137)

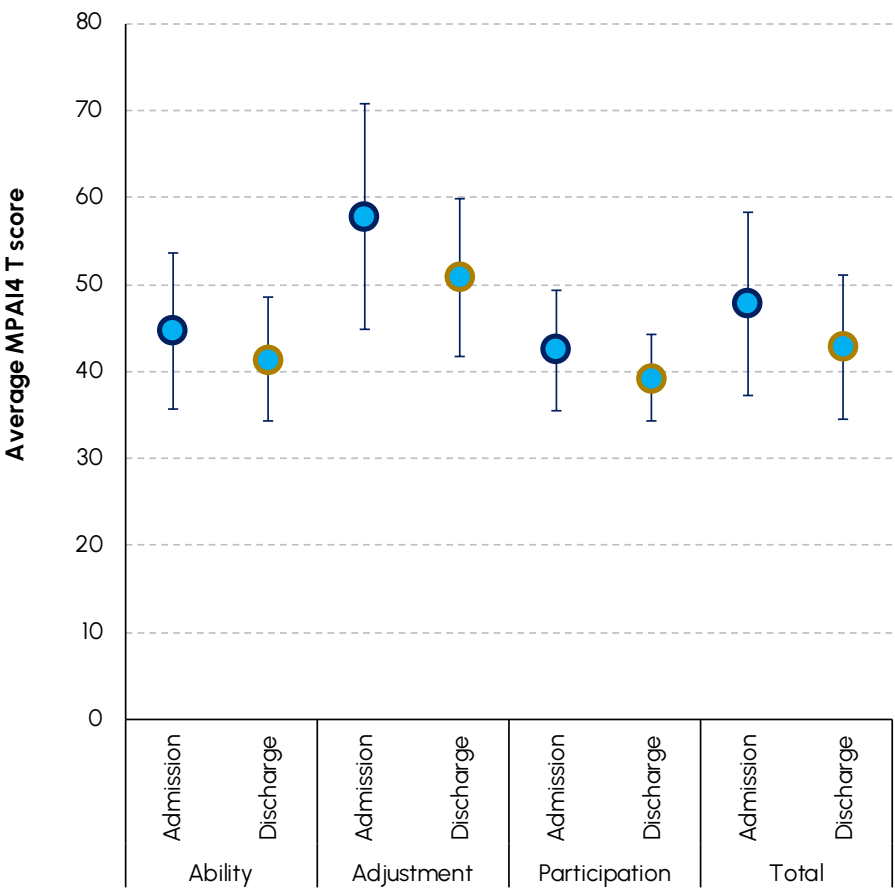


NOTE: To understand how to interpret these figures please refer to Appendix 3

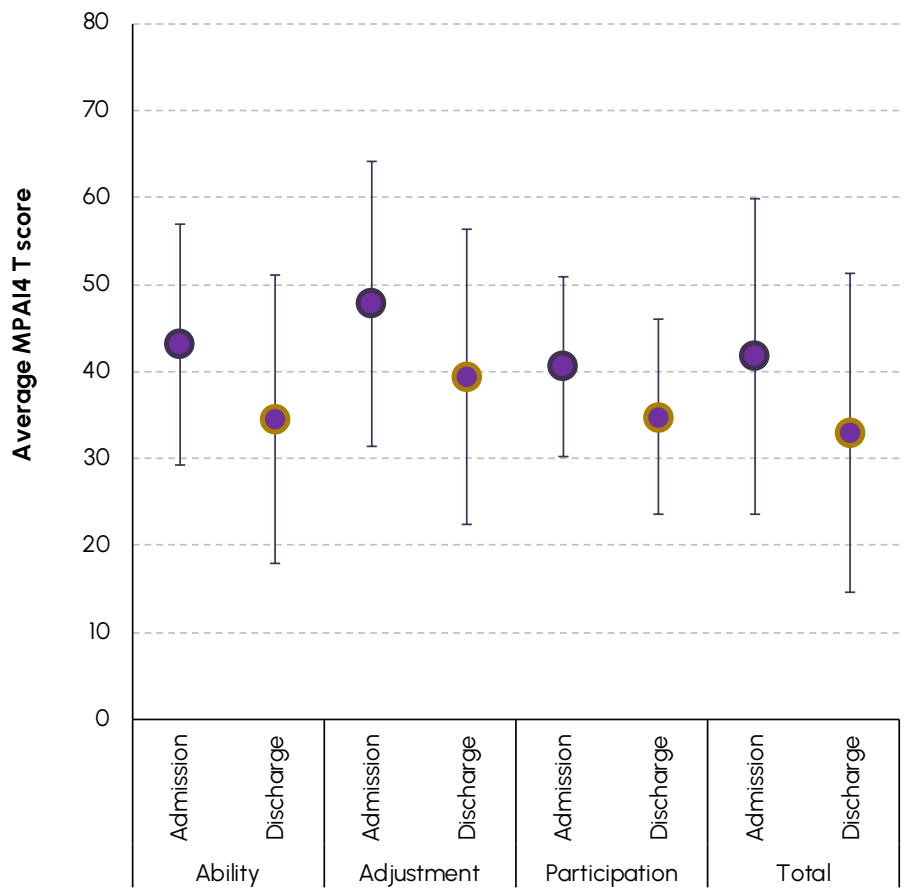
Admission and discharge average T score by MPAI-4 index



Your Service 2024 (n=5)



All Ambulatory 2024 (n=137)



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 suspensions of elective surgeries, service closures, staffing issues, and fewer traumatic accidents was a decline in the number of ambulatory rehabilitation episodes in the couple of years during and post COVID 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 ambulatory settings are still being 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 hypercoagulable 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.

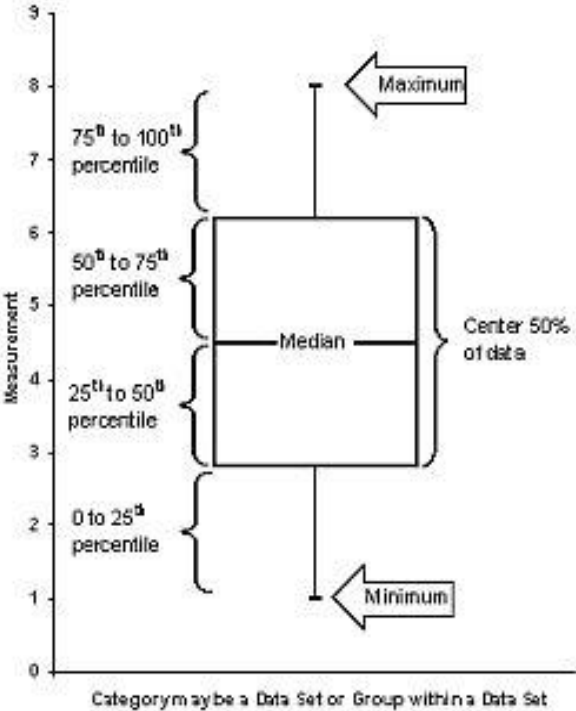
Valid Outcome Measure

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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- **Disclaimer**

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