

AROC Ambulatory Report

July 2022 – June 2023

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
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	
July	21
August	10
September	20
October	19
November	20
December	21
January	13
February	18
March	16
April	14
May	15
June	20
Full year	207

Completeness of data reported

AROC core data set items	Item collected	
	No.	%
Path	207	100.0
Facility code	207	100.0
Facility name	207	100.0
Ward code ¹	178	86.0
Ward name ¹	174	84.1
MRN	207	100.0
Letters of name	206	99.5
Date of birth	207	100.0
DOB estimate flag	207	100.0
Sex	207	100.0
Indigenous status	207	100.0
Geographical residence	207	100.0
Postcode	204	98.6
Episode begin date	207	100.0
Episode end date	207	100.0
Funding source	207	100.0
Health fund/other payer	104	100.0
NDIS	193	93.2
Referral date	205	99.0
Impairment code	207	100.0
Onset date &/or time since onset	205	99.0
Relevant inpatient episode date	204	98.6
Episode begin reason	205	99.0
First direct care episode	205	99.0
Interpreter required	205	99.0
Date of multi-disciplinary rehab plan	202	97.6
Accommodation prior to episode	205	99.0
Carer status prior to episode	203	99.5
Employment status prior to episode	204	98.6
Accommodation during episode	203	98.1
Carer status during episode	195	99.0
Existing comorbidity interfering with rehab	204	98.6
— Comorbidities identified	78	100.0

AROC core data set items	Item collected	
	No.	%
Cognitive impairment impacting rehab	203	98.1
Episode end reason	206	99.5
Final accommodation – episode end	202	99.5
Carer status – episode end	198	100.0
Employment status after discharge	51	24.6 ←
Return to pre-impairment activities	201	97.1
Days seen	199	96.1
Occasions of service	199	96.1
Disciplines involved in therapy	203	98.1
Lawton's start date	205	99.0
Lawton's start items	204	98.6
Lawton's end date	197	95.2
Lawton's end items	195	94.2
GAS start date ¹	10	4.8
GAS start scores ¹	11	5.3
GAS end date ¹	10	4.8
GAS end scores ¹	11	5.3

Impairment specific items

Stroke	No.	%
— Rehab aimed at upper limb function	33	75.0 ←
— Rehab aimed at gait retraining	32	72.7 ←
— Rehab aimed at aphasia	30	68.2 ←
— 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	14	82.4 ←
— Timed ten metre walk test on admission	13	76.5 ←
— Timed ten metre walk end date	14	82.4 ←
— Timed ten metre walk test on discharge	13	76.5 ←

AROC impairment specific items	Item collected	
	No.	%
Brain injury*	9	
— MPAI4 start date	4	44.4 ←
— MPAI4 start scores	4	44.4 ←
— MPAI4 end date	4	44.4 ←
— MPAI4 end scores	4	44.4 ←
Spinal cord injury*	3	
— Injury start level	2	66.7 ←
Reconditioning	20	
— DEMMI start date	12	60.0 ←
— DEMMI start scores	12	60.0 ←
— DEMMI end date	10	50.0 ←
— DEMMI end scores	11	55.0 ←
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	0	0.0
— Timed up and go test	3	100.0
— Six min walk test ¹	2	66.7
— Ten metre walk test ¹	2	66.7

Orthopaedic conditions

	No.	%
— Timed ten metre walk start date	61	70.9 ←
— Timed ten metre walk test on admission	53	61.6 ←
— Timed ten metre walk end date	60	69.8 ←
— Timed ten metre walk test on discharge	57	66.3 ←

*Also includes MMT that contain this impairment

Overall data completeness score **85.7**

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.

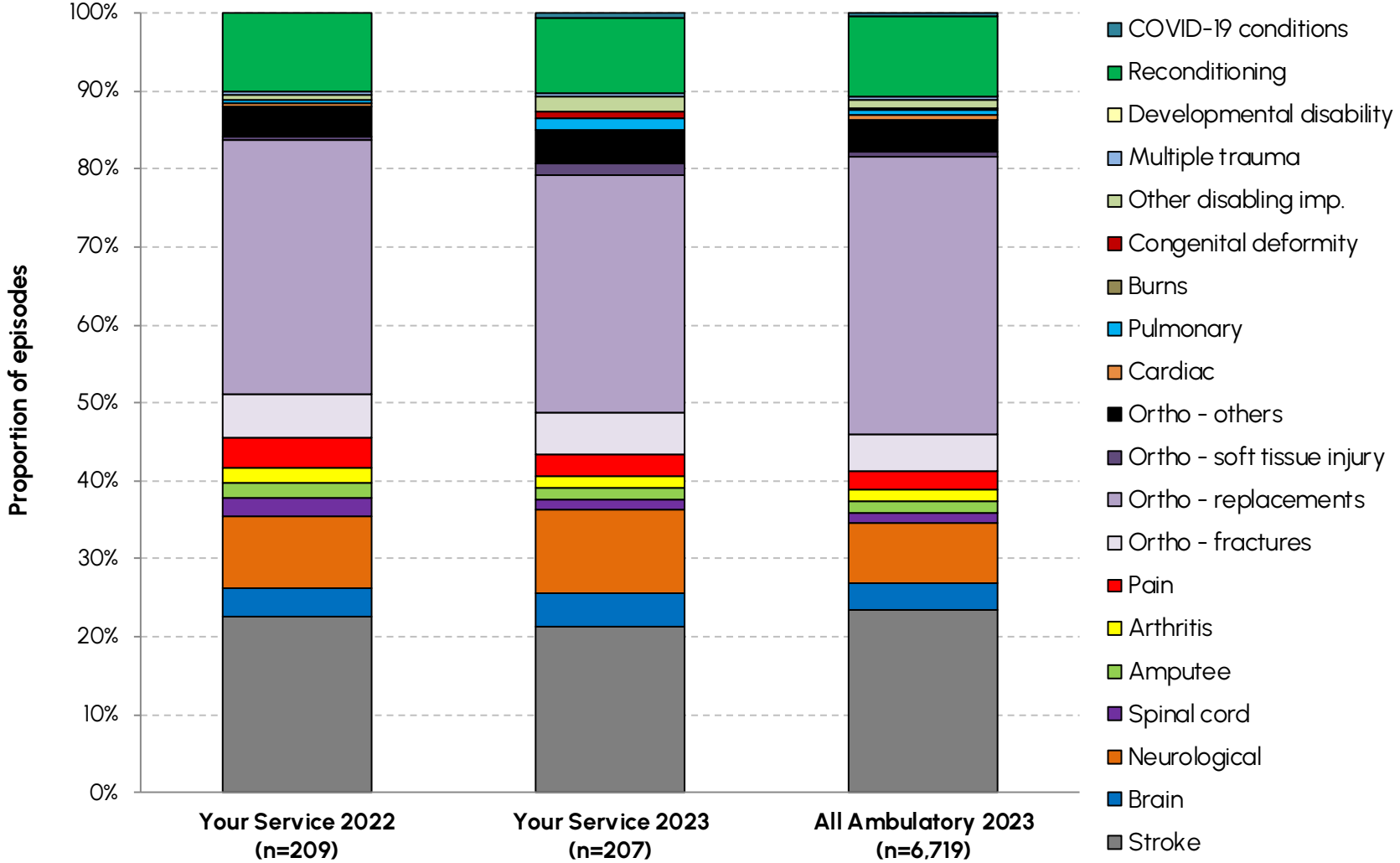
Such data are useful to provide context to the more detailed analysis of rehabilitation outcomes, but in themselves are not impacted by clinical practice.

Distribution of services and episodes

	Public		Private		All Ambulatory	
	No.	%	No.	%	No.	%
Facilities						
New South Wales	4	11.8	10	29.4	14	41.2
Victoria	0	—	0	—	0	—
Queensland	2	5.9	4	11.8	6	17.6
South Australia	7	20.6	0	—	7	20.6
Western Australia	1	2.9	1	2.9	2	5.9
Tasmania	1	2.9	0	—	1	2.9
Australian territories	0	—	1	2.9	1	2.9
NZ	3	8.8			3	8.8
Total	18	52.9	16	47.1	34	100.0

Episodes						
New South Wales	417	6.2	2,701	40.2	3,118	46.4
Victoria	0	—	0	—	0	—
Queensland	717	10.7	362	5.4	1,079	16.1
South Australia	1,262	18.8	0	—	1,262	18.8
Western Australia	265	3.9	49	0.7	314	4.7
Tasmania	2	0.0	0	—	2	0.0
Australian territories	0	—	349	5.2	349	5.2
NZ	598	8.9			598	8.9
Total	3,261	48.5	3,461	51.5	6,722	100.0

Episodes by impairment group



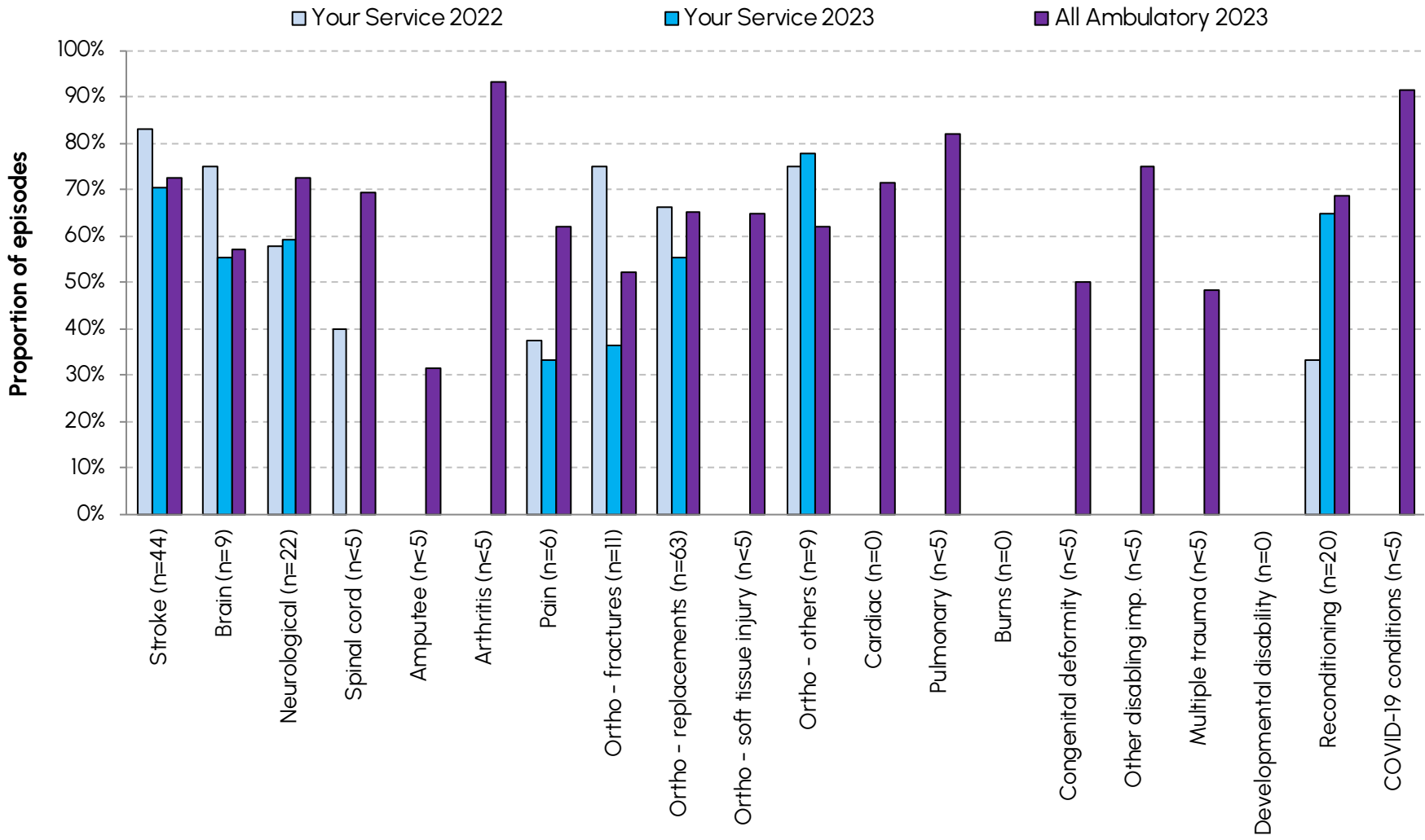
NOTE: For a full list of impairment codes please refer to Appendix 4

Episodes by impairment group

Impairment group	Your Service 2022		Your Service 2023		All Ambulatory 2023	
	No.	%	No.	%	No.	%
Stroke	47	22.5	44	21.3	1,570	23.4
Brain	8	3.8	9	4.3	236	3.5
Neurological	19	9.1	22	10.6	519	7.7
Spinal cord	5	2.4	3	1.4	82	1.2
Amputee	4	1.9	3	1.4	111	1.7
Arthritis	4	1.9	3	1.4	102	1.5
Pain	8	3.8	6	2.9	147	2.2
Ortho - fractures	12	5.7	11	5.3	324	4.8
Ortho - replacements	68	32.5	63	30.4	2,394	35.6
Ortho - soft tissue injury	1	0.5	3	1.4	34	0.5
Ortho - others	8	3.8	9	4.3	280	4.2
Cardiac	1	0.5	0	—	42	0.6
Pulmonary	1	0.5	3	1.4	50	0.7
Burns	0	—	0	—	0	—
Congenital deformity	0	—	2	1.0	6	0.1
Other disabling imp.	1	0.5	4	1.9	80	1.2
Multiple trauma	1	0.5	1	0.5	31	0.5
Developmental disability	0	—	0	—	1	0.0
Reconditioning	21	10.0	20	9.7	686	10.2
COVID-19 conditions	0	—	1	0.5	24	0.4
Missing or excluded	0	—	0	—	3	—
All episodes	209	100.0	207	100.0	6,722	100.0

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

First direct care rehabilitation episode by impairment group



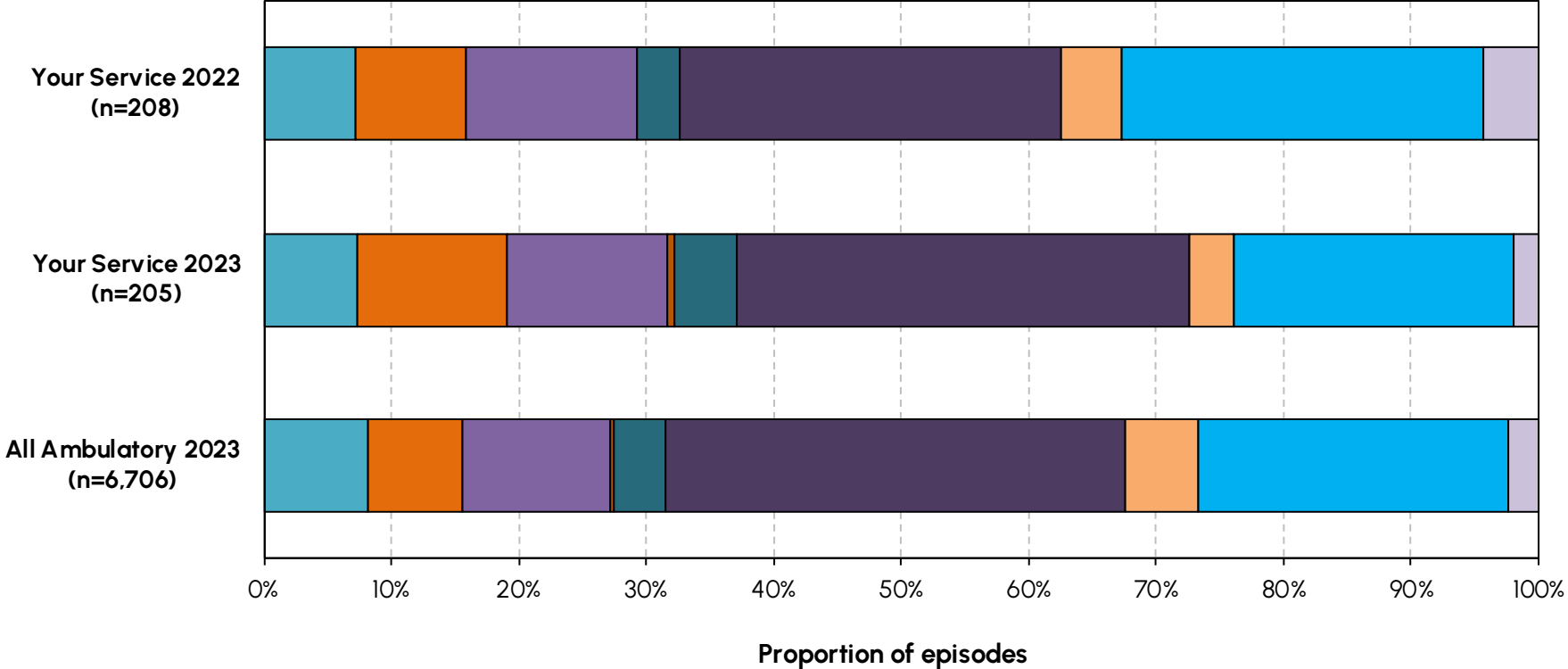
First direct care rehabilitation episode by impairment group

Impairment group	Your Service 2022				Your Service 2023				All Ambulatory 2023			
	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing
Stroke	47	39	8	0	44	31	11	2	1,570	1,139	421	10
Brain	8	6	2	0	9	5	4	0	236	135	96	5
Neurological	19	11	8	0	22	13	9	0	519	376	138	5
Spinal cord	5	2	3	0	3	1	2	0	82	57	25	0
Amputee	4	1	3	0	3	2	1	0	111	35	76	0
Arthritis	4	3	1	0	3	3	0	0	102	95	7	0
Pain	8	3	5	0	6	2	4	0	147	91	56	0
Ortho - fractures	12	9	3	0	11	4	7	0	324	169	155	0
Ortho - replacements	68	45	23	0	63	35	28	0	2,394	1,565	828	1
Ortho - soft tissue injury	1	0	1	0	3	3	0	0	34	22	12	0
Ortho - others	8	6	2	0	9	7	2	0	280	174	105	1
Cardiac	1	1	0	0	0	0	0	0	42	30	12	0
Pulmonary	1	1	0	0	3	3	0	0	50	41	9	0
Burns	0	0	0	0	0	0	0	0	0	0	0	0
Congenital deformity	0	0	0	0	2	0	2	0	6	3	3	0
Other disabling imp.	1	0	1	0	4	4	0	0	80	60	20	0
Multiple trauma	1	0	1	0	1	0	1	0	31	15	16	0
Developmental disability	0	0	0	0	0	0	0	0	1	1	0	0
Reconditioning	21	7	14	0	20	13	7	0	686	471	214	1
COVID-19 conditions	0	0	0	0	1	1	0	0	24	22	2	0
Missing or excluded	0				0				3			
All episodes	209	134	75	0	207	127	78	2	6,722	4,501	2,195	23

Episode source



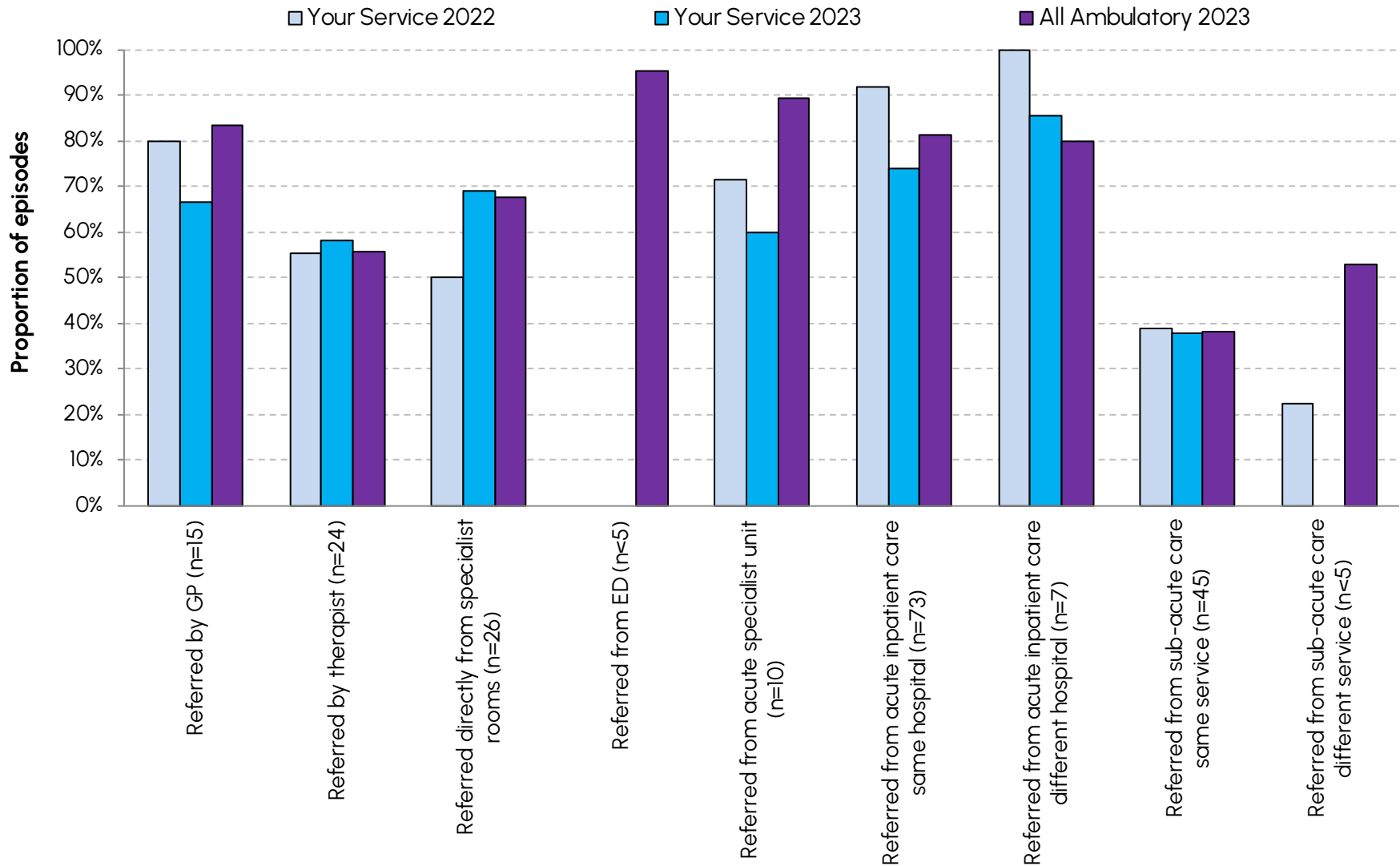
- Referred by GP
- Referred by therapist
- Referred directly from specialist rooms
- Referred from ED
- Referred from acute specialist unit
- Referred from acute inpatient care same hospital
- Referred from acute inpatient care different hospital
- Referred from sub-acute care same service
- Referred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



Episode source

Episode source	Your Service 2022		Your Service 2023		All Ambulatory 2023	
	No.	%	No.	%	No.	%
Referred by GP	15	7.2	15	7.3	550	8.2
Referred by therapist	18	8.7	24	11.7	498	7.4
Referred directly from specialist rooms	28	13.5	26	12.7	774	11.5
Referred from ED	0	—	1	0.5	22	0.3
Referred from acute specialist unit	7	3.4	10	4.9	269	4.0
Referred from acute inpatient care same hospital	62	29.8	73	35.6	2,420	36.1
Referred from acute inpatient care different hospital	10	4.8	7	3.4	379	5.7
Referred from sub-acute care same service	59	28.4	45	22.0	1,637	24.4
Referred from sub-acute care different service	9	4.3	4	2.0	157	2.3
Missing	1		2		16	
All episodes	209	100	207	100	6,722	100

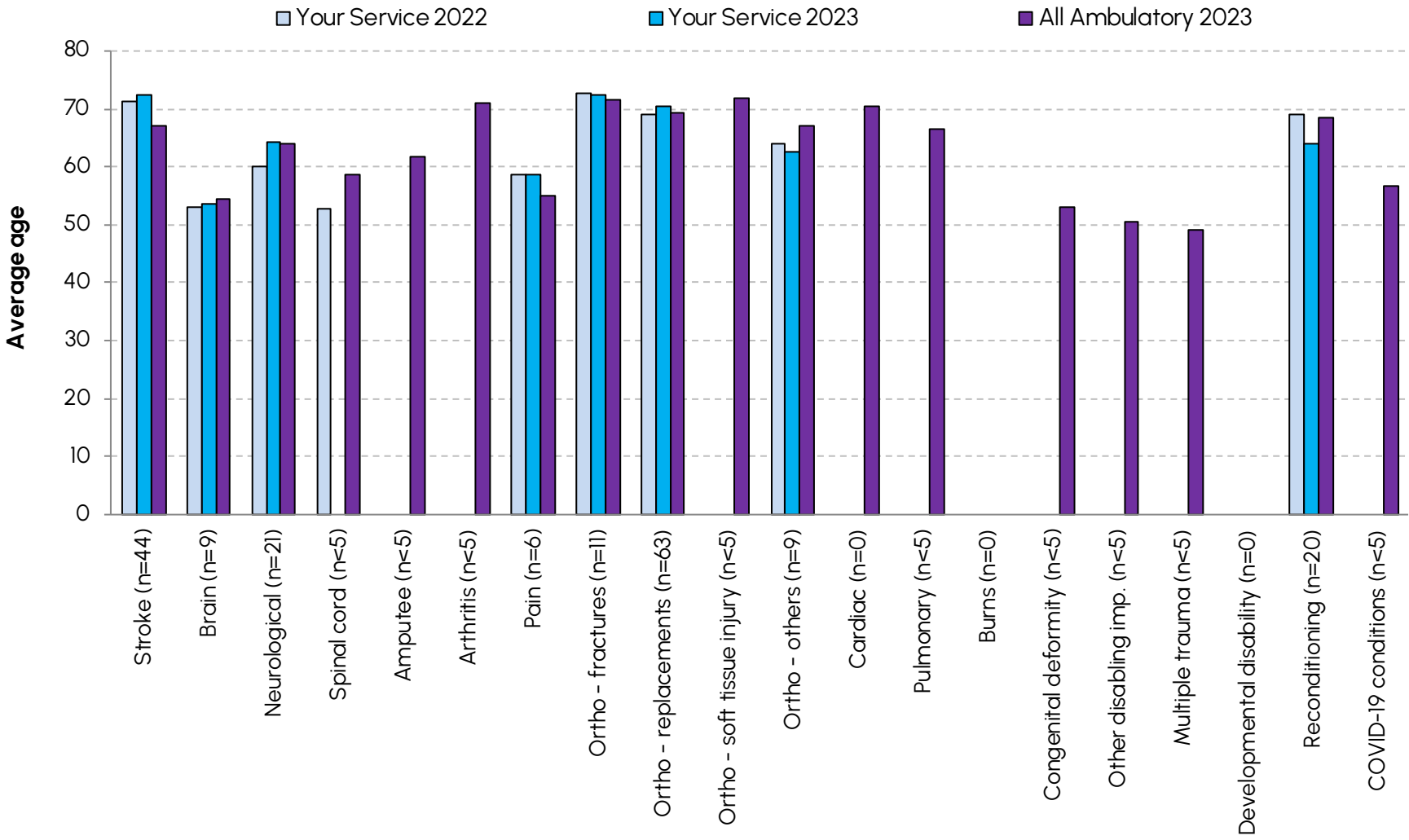
First direct care rehabilitation episode by episode source



First direct care rehabilitation episode by episode source

Impairment group	Your Service 2022				Your Service 2023				All Ambulatory 2023			
	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing
Referred by GP	15	12	3	0	15	10	5	0	550	459	91	0
Referred by therapist	18	10	8	0	24	14	10	0	498	278	215	5
Referred directly from specialist rooms	28	14	14	0	26	18	8	0	774	525	247	2
Referred from ED	0	0	0	0	1	1	0	0	22	21	1	0
Referred from acute specialist unit	7	5	2	0	10	6	4	0	269	241	26	2
Referred from acute inpatient care same hospital	62	57	5	0	73	54	19	0	2,420	1,966	451	3
Referred from acute inpatient care different hospital	10	10	0	0	7	6	1	0	379	303	76	0
Referred from sub-acute care same service	59	23	36	0	45	17	28	0	1,637	625	1,011	1
Referred from sub-acute care different service	9	2	7	0	4	1	3	0	157	83	74	0
Missing	1	1	0	0	2	0	0	2	16	3	3	10
All episodes	209	134	75	0	207	127	78	2	6,722	4,504	2,195	23

Age by impairment group



Age by impairment group

Impairment group	Your Service 2022			Your Service 2023			All Ambulatory 2023		
	No.	Mean age	(95% CI)	No.	Mean age	(95% CI)	No.	Mean age	(95% CI)
Stroke	46	71.3	(68.3 – 74.4)	44	72.3	(67.9 – 76.6)	1,560	66.9	(66.2 – 67.7)
Brain	8	53.1	(44.4 – 61.8)	9	53.7	(43.5 – 63.8)	235	54.3	(52.1 – 56.6)
Neurological	19	60.0	(50.5 – 69.5)	21	64.3	(58.1 – 70.6)	517	63.9	(62.4 – 65.3)
Spinal cord	5	52.6	(26.1 – 79.1)	3	68.7	(62.9 – 74.5)	82	58.7	(55.5 – 61.9)
Amputee	4	54.8	(37.7 – 71.8)	3	62.7	(56.2 – 69.1)	110	61.8	(59.3 – 64.3)
Arthritis	4	73.5	(69.2 – 77.8)	3	79.7	(65.3 – 94.0)	102	71.0	(68.8 – 73.2)
Pain	8	58.8	(45.1 – 72.4)	6	58.7	(46.9 – 70.5)	147	55.0	(52.0 – 58.0)
Ortho - fractures	12	72.8	(64.9 – 80.6)	11	72.4	(62.9 – 81.9)	322	71.6	(69.9 – 73.2)
Ortho - replacements	68	69.1	(67.0 – 71.2)	63	70.5	(68.3 – 72.7)	2,394	69.3	(69.0 – 69.7)
Ortho - soft tissue injury	1	74.0		3	63.7	(42.2 – 85.1)	34	71.7	(66.4 – 77.1)
Ortho - others	8	63.9	(54.1 – 73.7)	9	62.6	(55.6 – 69.5)	280	67.0	(65.3 – 68.7)
Cardiac	1	72.0		0	—		42	70.5	(67.0 – 73.9)
Pulmonary	1	86.0		3	61.3	(51.7 – 71.0)	50	66.6	(62.6 – 70.6)
Burns	0	—		0	—		0	—	
Congenital deformity	0	—		2	69.0	(59.2 – 78.8)	6	53.0	(35.1 – 70.9)
Other disabling imp.	1	19.0		4	52.5	(31.8 – 73.2)	80	50.4	(46.1 – 54.8)
Multiple trauma	1	21.0		1	21.0		30	49.1	(42.1 – 56.2)
Developmental disability	0	—		0	—		1	—	
Reconditioning	21	69.1	(61.0 – 77.2)	20	64.0	(55.7 – 72.3)	684	68.6	(67.4 – 69.8)
COVID-19 conditions	0	—		1	32.0		24	56.7	(49.7 – 63.7)
Missing or excluded	1			2			46		
All episodes	209	66.8	(64.7 – 68.9)	207	67.3	(65.3 – 69.3)	6,722	66.8	(66.5 – 67.2)

NDIS funding status at episode end

Episode source	Your Service 2022		Your Service 2023		All Ambulatory 2023 (AU)	
	No.	%	No.	%	No.	%
Accepted - on a plan	8	4.2	8	4.1	196	3.2
Accepted - waiting	1	0.5	0	—	44	0.7
Awaiting eligibility determination	5	2.6	4	2.1	171	2.8
Eligible - hasn't applied	9	4.8	7	3.6	197	3.2
Eligible - NDIS not yet available in the region	0	—	0	—	3	0.0
Not eligible / not relevant	166	87.8	174	90.2	5,472	90.0
Missing	20		14		41	
All episodes (AU)	209		207		6,124	

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=42)	73.8	2.4	88.1	14.3	33.3	14.3	11.9	7.1	57.1	42.9	11.9	11.9	4.8	45.2
Brain (n=7)	85.7	14.3	100.0	28.6	57.1	42.9	0.0	0.0	42.9	14.3	0.0	0.0	14.3	28.6
Neurological (n=22)	90.9	13.6	81.8	31.8	18.2	27.3	9.1	4.5	40.9	31.8	18.2	4.5	4.5	36.4
Spinal cord (n=3)	100.0	0.0	100.0	66.7	33.3	33.3	33.3	0.0	0.0	66.7	0.0	0.0	0.0	33.3
Amputee (n=3)	100.0	0.0	66.7	33.3	33.3	0.0	0.0	0.0	0.0	66.7	0.0	0.0	0.0	66.7
Arthritis (n=3)	100.0	0.0	66.7	33.3	33.3	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	33.3
Pain (n=6)	100.0	0.0	100.0	33.3	16.7	16.7	0.0	0.0	0.0	16.7	16.7	66.7	0.0	16.7
Ortho - fractures (n=11)	100.0	36.4	54.5	18.2	72.7	45.5	18.2	0.0	0.0	27.3	9.1	0.0	0.0	27.3
Ortho - replacements (n=63)	98.4	61.9	84.1	20.6	31.7	22.2	7.9	1.6	0.0	0.0	17.5	0.0	0.0	7.9
Ortho - soft tissue injury (n=3)	100.0	66.7	33.3	0.0	33.3	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ortho - others (n=9)	100.0	44.4	33.3	77.8	44.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	66.7	66.7	0.0	0.0	33.3
Burns (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congenital deformity (n=2)	100.0	0.0	100.0	50.0	50.0	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	50.0
Other disabling imp. (n=4)	75.0	0.0	50.0	0.0	0.0	25.0	0.0	0.0	25.0	25.0	0.0	0.0	0.0	50.0
Multiple trauma (n=1)	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	100.0
Developmental disability (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Reconditioning (n=20)	90.0	20.0	65.0	40.0	45.0	30.0	10.0	0.0	15.0	20.0	15.0	5.0	0.0	10.0
COVID-19 conditions (n=1)	100.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0

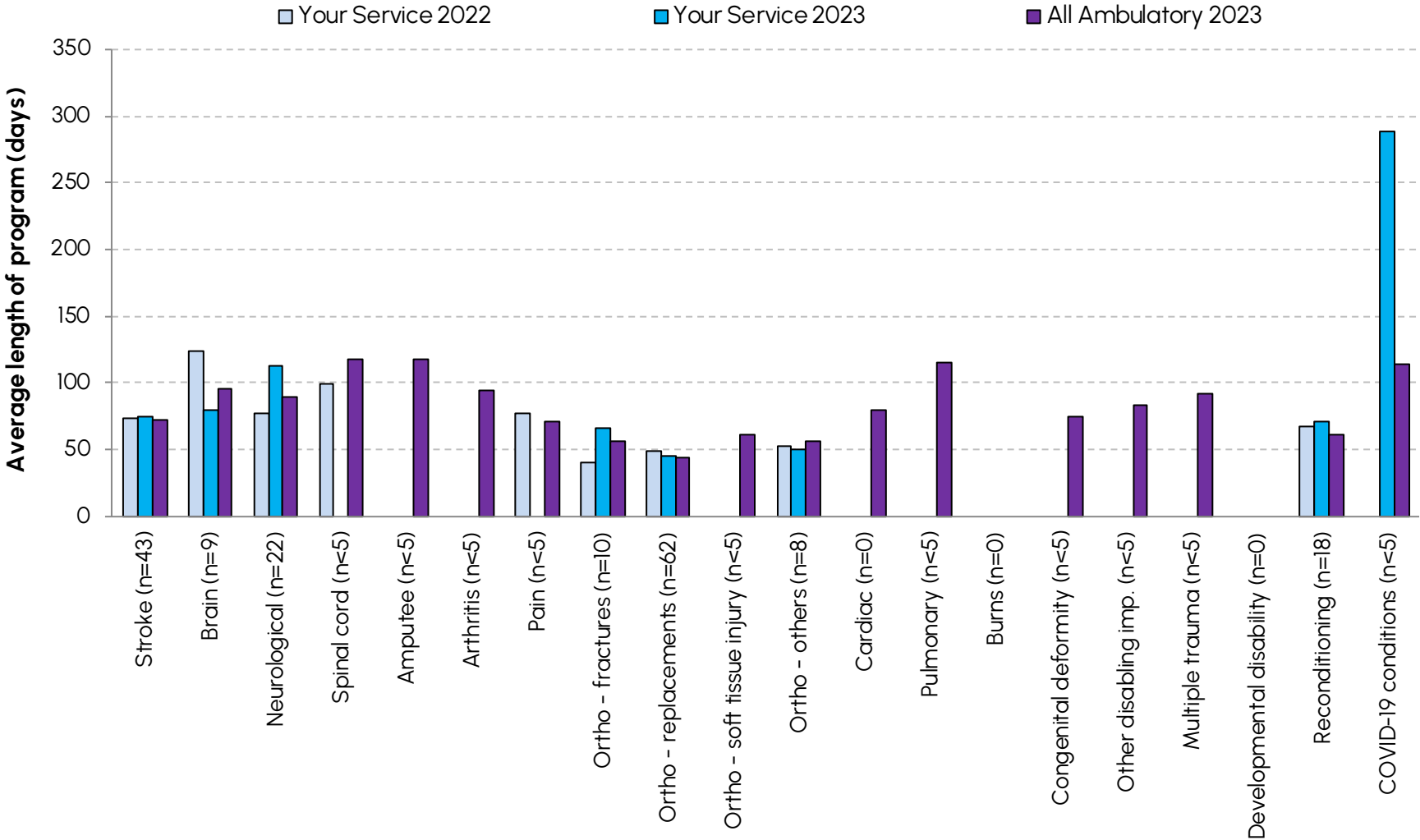
Outcome measures – All impairments



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

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

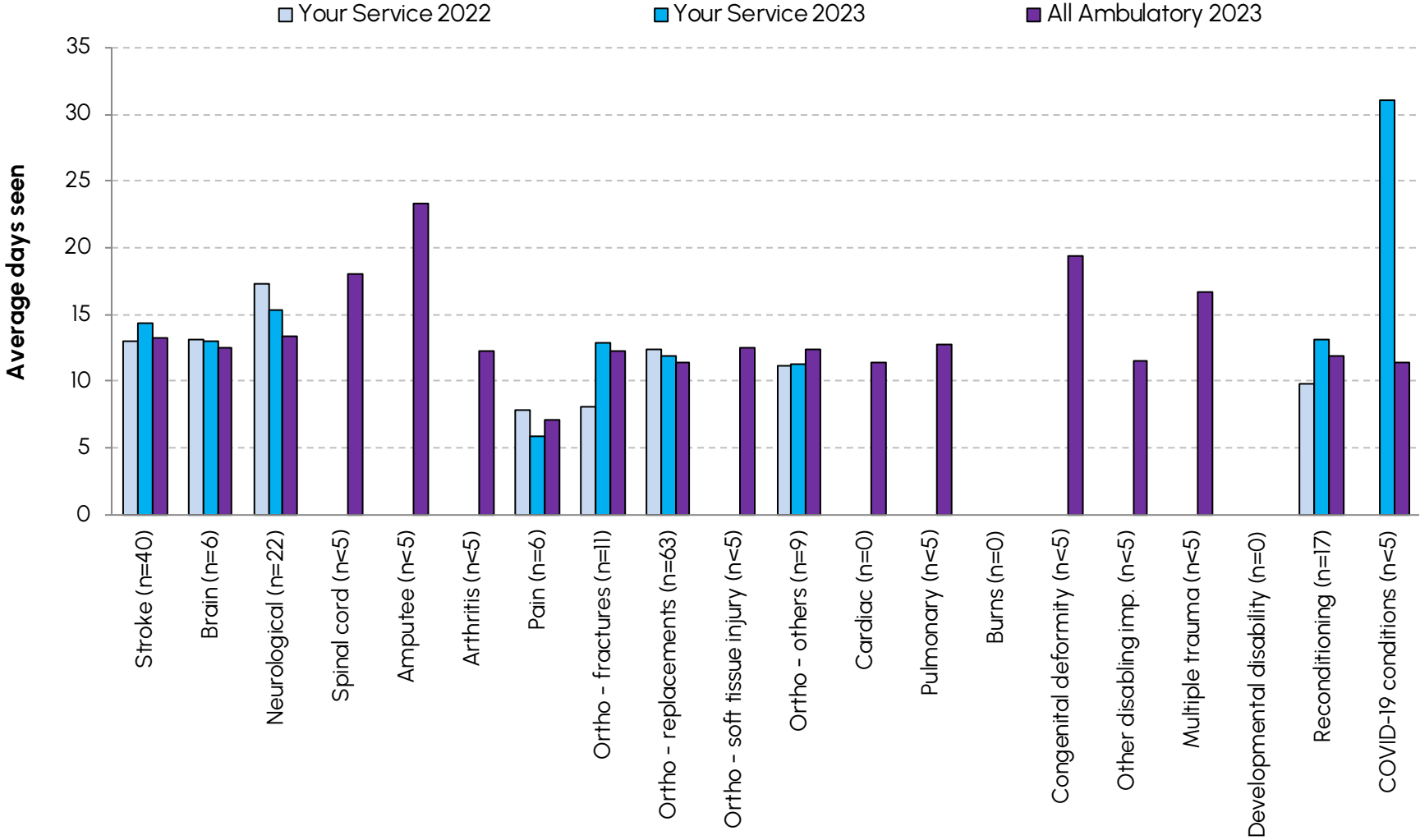
Length of program by impairment group



Length of program by impairment group

Impairment group	Your Service 2022			Your Service 2023			All Ambulatory 2023		
	No.	Mean LOP	Trimmed data range*	No.	Mean LOP	Trimmed data range*	No.	Mean LOP	Trimmed data range*
Stroke	44	74.0	(29 – 154)	43	75.1	(20 – 178)	1,484	72.5	(18 – 175)
Brain	8	124.0		9	79.4		221	96.1	(21 – 239)
Neurological	16	76.9		22	112.4	(37 – 224)	480	88.9	(22 – 214)
Spinal cord	5	99.8		3	—		66	117.7	(30 – 330)
Amputee	3	—		3	—		95	117.1	(25 – 291)
Arthritis	4	—		2	—		94	94.3	(29 – 220)
Pain	5	77.4		2	—		93	71.5	(21 – 211)
Ortho - fractures	12	40.6		10	66.3		302	56.3	(21 – 106)
Ortho - replacements	62	48.5	(16 – 92)	62	45.5	(21 – 102)	2,308	43.8	(18 – 86)
Ortho - soft tissue injury	1	—		3	—		33	61.3	(22 – 115)
Ortho - others	7	52.6		8	49.8		259	55.8	(16 – 123)
Cardiac	1	—		0	—		41	79.5	(33 – 163)
Pulmonary	1	—		3	—		43	115.1	(41 – 198)
Burns	0	—		0	—		0	—	
Congenital deformity	0	—		2	—		5	74.8	
Other disabling imp.	1	—		3	—		73	82.9	(24 – 196)
Multiple trauma	1	—		1	—		29	92.2	(19 – 263)
Developmental disability	0	—		0	—		1	—	
Reconditioning	16	66.9		18	71.4		626	60.5	(20 – 133)
COVID-19 conditions	0	—		1	—		22	113.4	(45 – 221)
Missing or excluded	22			13			469		
All episodes	209	65.1	(16 – 171)	207	75.3	(17 – 215)	6,722	64.5	(19 – 161)

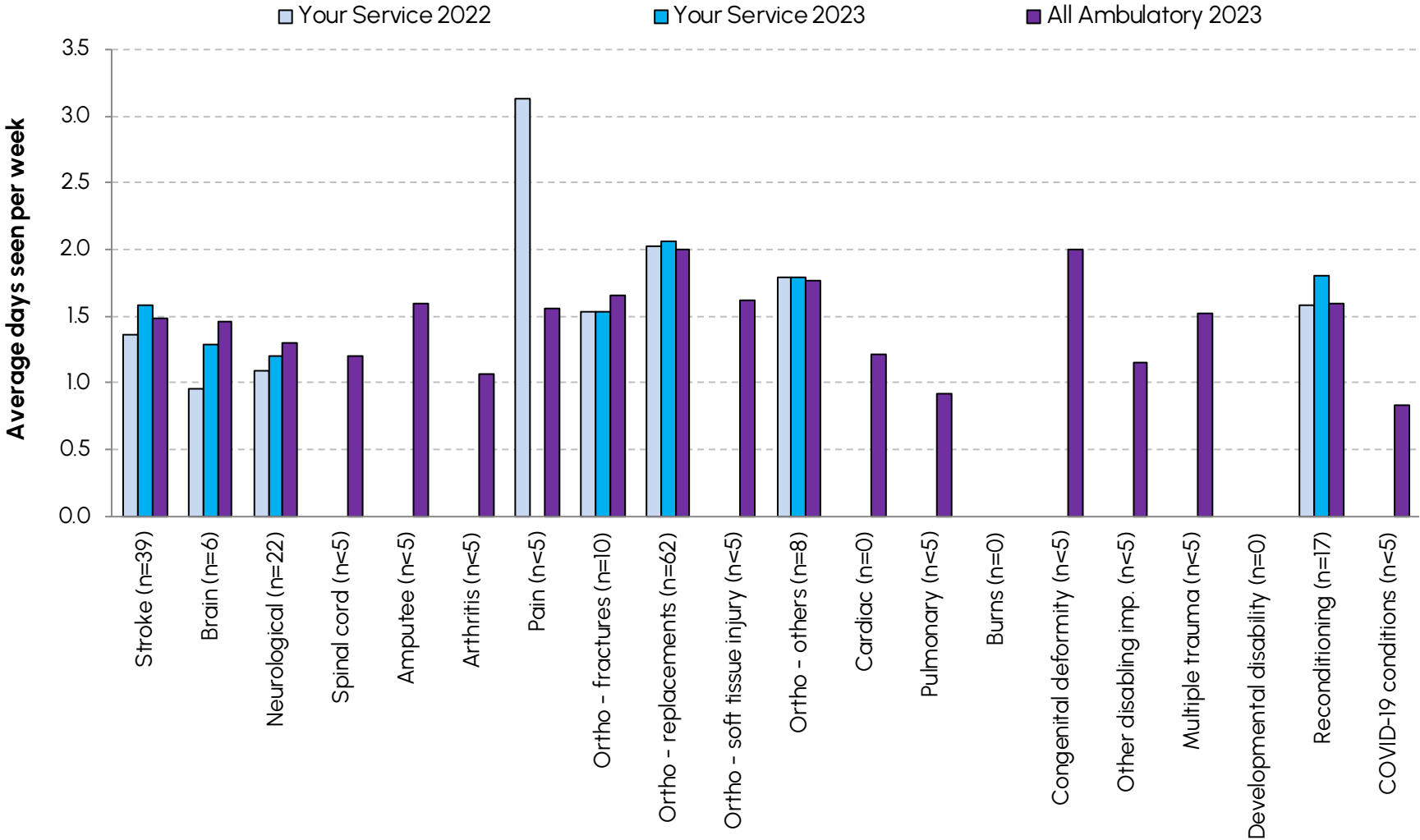
Days seen by impairment group



Days seen by impairment group

Impairment group	Your Service 2022			Your Service 2023			All Ambulatory 2023		
	No.	Mean days seen	Trimmed data range*	No.	Mean days seen	Trimmed data range*	No.	Mean days seen	Trimmed data range*
Stroke	43	13.0	(2 – 32)	40	14.3	(2 – 28)	1,471	13.3	(2 – 35)
Brain	6	13.2		6	13.0		157	12.6	(3 – 30)
Neurological	16	17.3		22	15.3	(7 – 33)	487	13.4	(3 – 31)
Spinal cord	2	—		3	—		76	18.0	(4 – 43)
Amputee	2	—		3	—		95	23.4	(4 – 67)
Arthritis	4	—		2	—		100	12.3	(1 – 22)
Pain	7	7.9		6	5.8		145	7.1	(1 – 18)
Ortho - fractures	12	8.1		11	12.9		298	12.2	(3 – 24)
Ortho - replacements	64	12.4	(6 – 20)	63	11.9	(6 – 20)	2,345	11.4	(5 – 20)
Ortho - soft tissue injury	1	—		3	—		33	12.5	(4 – 24)
Ortho - others	7	11.1		9	11.3		265	12.4	(4 – 20)
Cardiac	1	—		0	—		41	11.3	(6 – 20)
Pulmonary	1	—		3	—		43	12.8	(4 – 23)
Burns	0	—		0	—		0	—	
Congenital deformity	0	—		2	—		5	19.4	
Other disabling imp.	1	—		3	—		71	11.6	(2 – 25)
Multiple trauma	1	—		1	—		29	16.6	(4 – 38)
Developmental disability	0	—		0	—		1	—	
Reconditioning	17	9.8		17	13.1		621	11.8	(3 – 23)
COVID-19 conditions	0	—		1	—		22	11.5	(2 – 23)
Missing or excluded	24			13			439		
All episodes	209	12.1	(2 – 24)	207	13.2	(2 – 25)	6,722	12.3	(3 – 26)

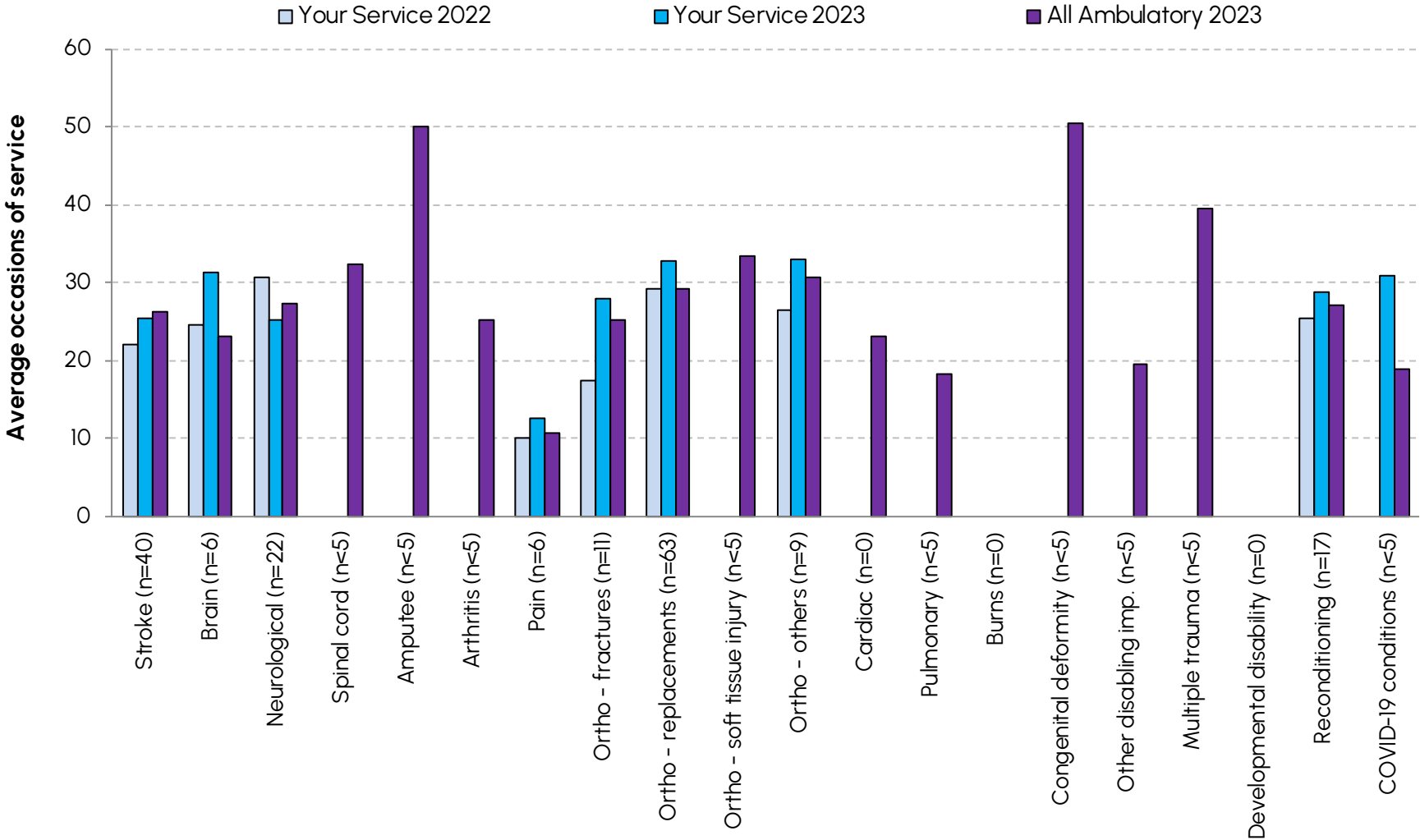
Days seen per elapsed week by impairment group



Days seen per elapsed week by impairment group

Impairment group	Your Service 2022			Your Service 2023			All Ambulatory 2023		
	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	42	1.4	(0.4 – 2.9)	39	1.6	(0.5 – 3.5)	1,444	1.5	(0.4 – 3.3)
Brain	6	1.0		6	1.3		157	1.5	(0.4 – 2.7)
Neurological	14	1.1		22	1.2	(0.5 – 2.3)	473	1.3	(0.3 – 2.5)
Spinal cord	2	—		3	—		65	1.2	(0.2 – 2.3)
Amputee	1	—		3	—		89	1.6	(0.3 – 3.4)
Arthritis	4	—		2	—		94	1.1	(0.3 – 2.1)
Pain	5	3.1		2	—		92	1.6	(0.3 – 2.7)
Ortho - fractures	12	1.5		10	1.5		291	1.7	(0.7 – 2.6)
Ortho - replacements	62	2.0	(1.1 – 3.0)	62	2.1	(1.3 – 3.0)	2,307	2.0	(1.1 – 3.0)
Ortho - soft tissue injury	1	—		3	—		33	1.6	(0.9 – 2.4)
Ortho - others	6	1.8		8	1.8		255	1.8	(0.9 – 2.6)
Cardiac	1	—		0	—		41	1.2	(0.5 – 2.2)
Pulmonary	1	—		3	—		43	0.9	(0.3 – 1.8)
Burns	0	—		0	—		0	—	
Congenital deformity	0	—		2	—		5	2.0	
Other disabling imp.	1	—		3	—		69	1.2	(0.2 – 2.5)
Multiple trauma	1	—		1	—		29	1.5	(0.2 – 2.8)
Developmental disability	0	—		0	—		1	—	
Reconditioning	16	1.6		17	1.8		606	1.6	(0.5 – 2.7)
COVID-19 conditions	0	—		1	—		21	0.8	(0.3 – 1.8)
Missing or excluded	34			21			628		
All episodes	209	1.6	(0.4 – 3.0)	207	1.6	(0.5 – 2.8)	6,722	1.7	(0.4 – 2.9)

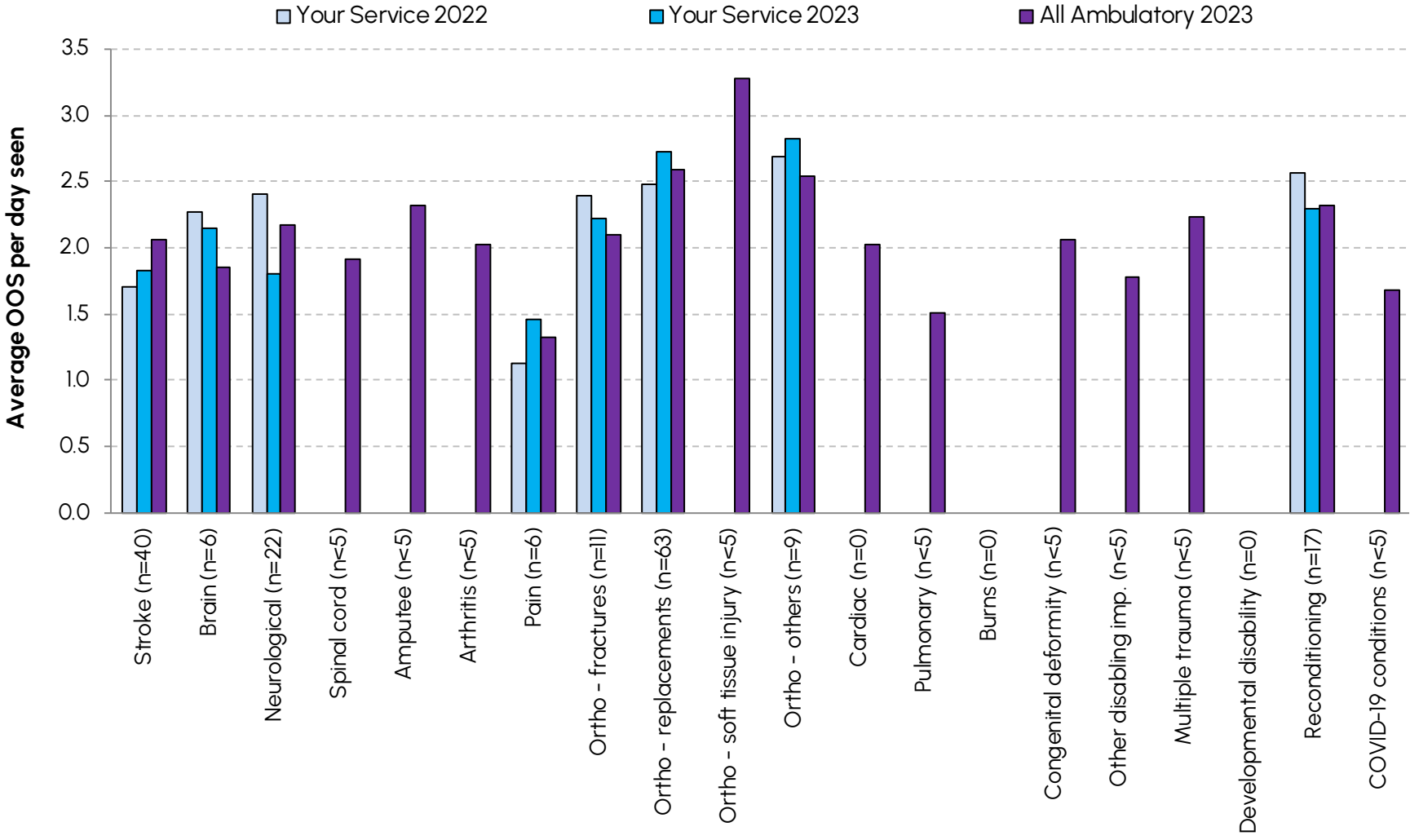
Occasions of service by impairment group



Occasions of service by impairment group

Impairment group	Your Service 2022			Your Service 2023			All Ambulatory 2023		
	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	43	22.0	(5 – 63)	40	25.5	(5 – 55)	1,469	26.2	(3 – 73)
Brain	6	24.5		6	31.3		158	23.2	(5 – 55)
Neurological	16	30.8		22	25.2	(8 – 45)	487	27.4	(5 – 58)
Spinal cord	2	—		3	—		76	32.4	(9 – 94)
Amputee	2	—		3	—		95	50.0	(8 – 129)
Arthritis	4	—		2	—		100	25.2	(3 – 57)
Pain	7	10.1		6	12.7		145	10.8	(1 – 36)
Ortho - fractures	12	17.3		11	27.9		298	25.3	(6 – 60)
Ortho - replacements	64	29.3	(13 – 60)	63	32.8	(9 – 60)	2,343	29.1	(9 – 60)
Ortho - soft tissue injury	1	—		3	—		33	33.5	(7 – 57)
Ortho - others	7	26.6		9	33.0		265	30.6	(8 – 60)
Cardiac	1	—		0	—		41	23.1	(7 – 40)
Pulmonary	1	—		3	—		43	18.2	(6 – 33)
Burns	0	—		0	—		0	—	
Congenital deformity	0	—		2	—		5	50.6	
Other disabling imp.	1	—		3	—		71	19.6	(4 – 46)
Multiple trauma	1	—		1	—		29	39.6	(8 – 111)
Developmental disability	0	—		0	—		1	—	
Reconditioning	17	25.5		17	28.7		621	27.0	(6 – 53)
COVID-19 conditions	0	—		1	—		22	18.8	(6 – 43)
Missing or excluded	24	—		13	—		442	—	
All episodes	209	24.9	(4 – 60)	207	28.2	(5 – 60)	6,722	27.1	(5 – 60)

Occasions of service per day seen by impairment group



Occasions of service per day seen by impairment group

Impairment group	Your Service 2022			Your Service 2023			All Ambulatory 2023		
	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	43	1.7	(1.0 – 3.4)	40	1.8	(1.0 – 3.0)	1,469	2.1	(1.0 – 4.0)
Brain	6	2.3		6	2.1		157	1.8	(1.0 – 3.0)
Neurological	16	2.4		22	1.8	(1.0 – 3.0)	487	2.2	(1.0 – 3.0)
Spinal cord	2	—		3	—		76	1.9	(1.0 – 3.3)
Amputee	2	—		3	—		95	2.3	(1.1 – 3.0)
Arthritis	4	—		2	—		100	2.0	(1.0 – 3.0)
Pain	7	1.1		6	1.5		145	1.3	(1.0 – 3.0)
Ortho - fractures	12	2.4		11	2.2		298	2.1	(1.0 – 3.0)
Ortho - replacements	64	2.5	(1.0 – 3.0)	63	2.7	(1.0 – 3.0)	2,343	2.6	(1.0 – 3.0)
Ortho - soft tissue injury	1	—		3	—		33	3.3	(1.0 – 3.0)
Ortho - others	7	2.7		9	2.8		265	2.5	(1.0 – 3.0)
Cardiac	1	—		0	—		41	2.0	(1.0 – 3.0)
Pulmonary	1	—		3	—		43	1.5	(1.0 – 2.8)
Burns	0	—		0	—		0	—	
Congenital deformity	0	—		2	—		5	2.1	
Other disabling imp.	1	—		3	—		71	1.8	(1.0 – 3.0)
Multiple trauma	1	—		1	—		29	2.2	(1.5 – 3.0)
Developmental disability	0	—		0	—		1	—	
Reconditioning	17	2.6		17	2.3		621	2.3	(1.1 – 3.0)
COVID-19 conditions	0	—		1	—		22	1.7	(1.0 – 2.5)
Missing or excluded	24			13			443		
All episodes	209	2.2	(1.0 – 3.4)	207	2.2	(1.0 – 3.0)	6,722	2.3	(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:

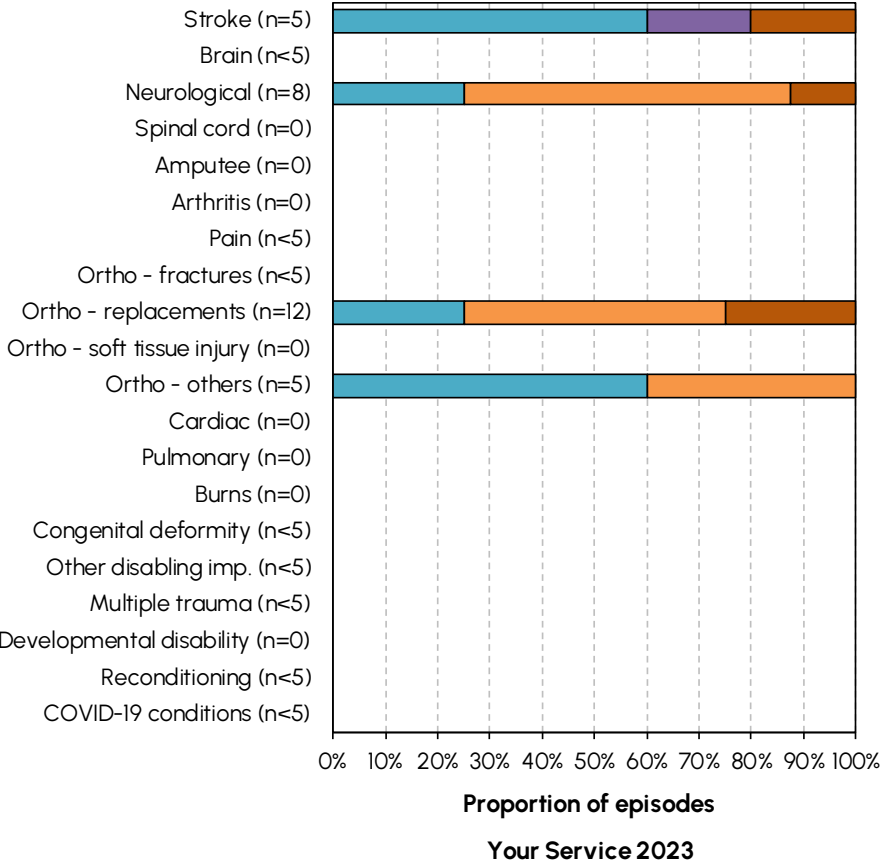
- the same or similar job with reduced hours
or
- a different job due to reduced function
or
- not able to work.

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

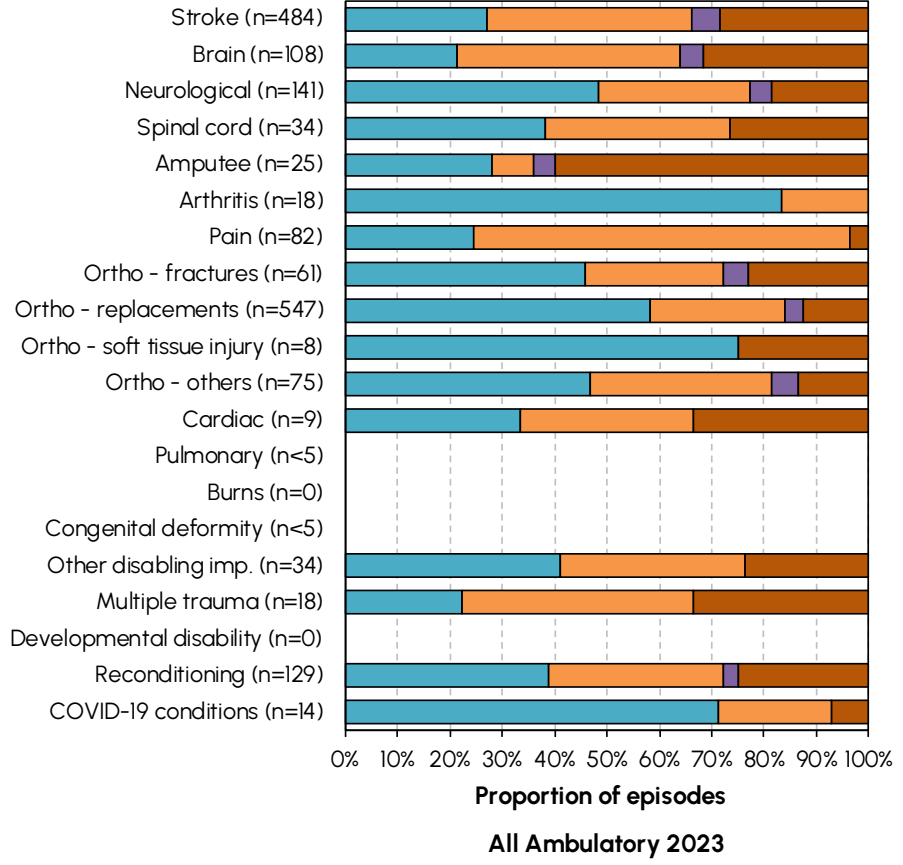
Employment outcomes by impairment group



■ 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



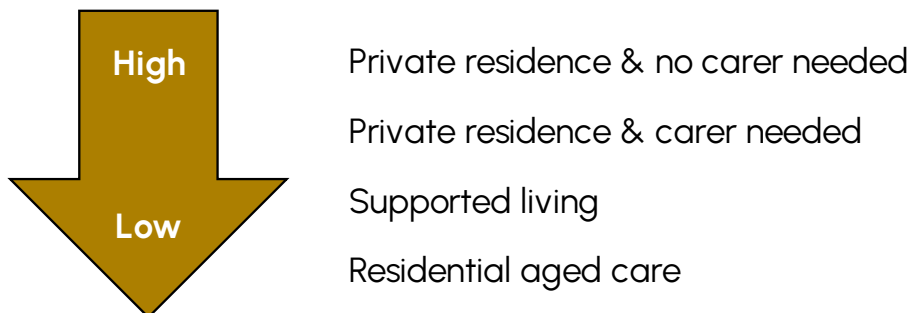
Employment outcomes by impairment group

Impairment group	Your Service 2022		Your Service 2023		All Ambulatory 2023	
	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	12	33.3	5	60.0	484	27.1
Brain	5	80.0	3	33.3	108	21.3
Neurological	7	42.9	8	25.0	141	48.2
Spinal cord	2	50.0	0	—	34	38.2
Amputee	0	—	0	—	25	28.0
Arthritis	0	—	0	—	18	83.3
Pain	4	0.0	3	0.0	82	24.4
Ortho - fractures	3	33.3	3	100.0	61	45.9
Ortho - replacements	19	78.9	12	25.0	547	58.3
Ortho - soft tissue injury	0	—	0	—	8	75.0
Ortho - others	4	25.0	5	60.0	75	46.7
Cardiac	0	—	0	—	9	33.3
Pulmonary	0	—	0	—	3	—
Burns	0	—	0	—	0	—
Congenital deformity	0	—	1	100.0	3	—
Other disabling imp.	0	—	2	50.0	34	41.2
Multiple trauma	1	0.0	1	100.0	18	22.2
Developmental disability	0	—	0	—	0	—
Reconditioning	3	33.3	4	75.0	129	38.8
COVID-19 conditions	0	—	1	100.0	14	71.4
Missing or excluded	149		160		4,943	
All episodes	209	50.0	207	44.7	6,722	41.5

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.

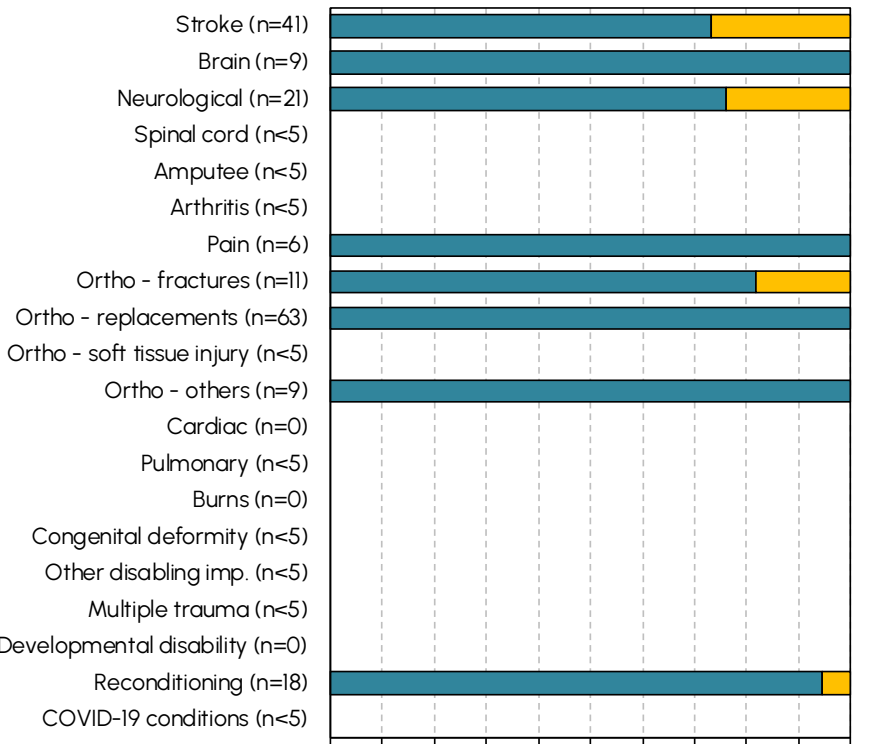
A patient is defined as having 'reduced independence' when:

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

Independence outcomes by impairment group

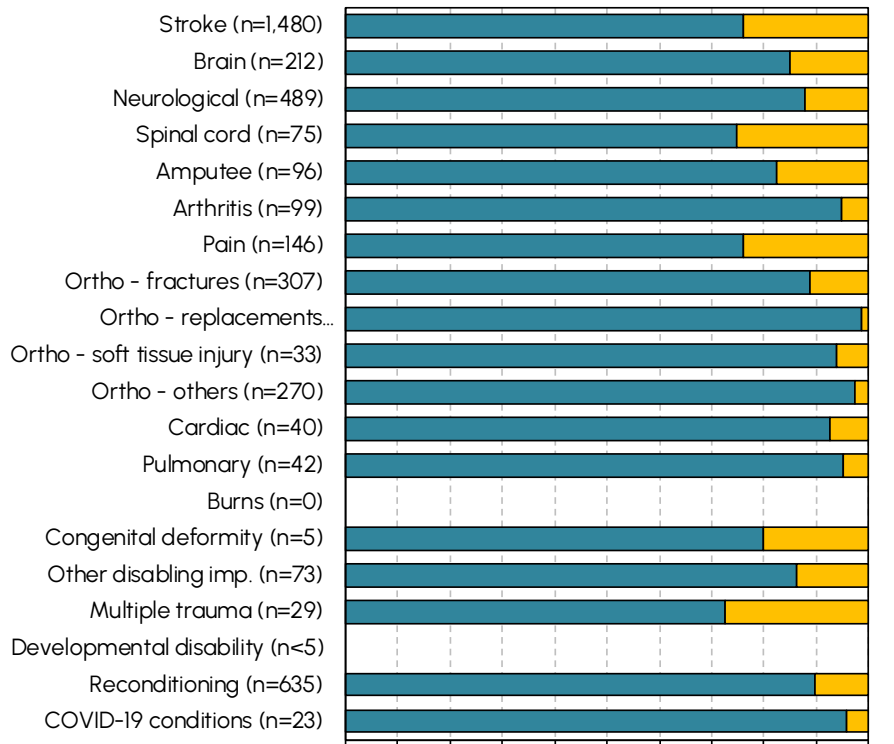


■ Equivalent independence ■ Reduced independence



Proportion of episodes
Your Service 2023

■ Equivalent independence ■ Reduced independence

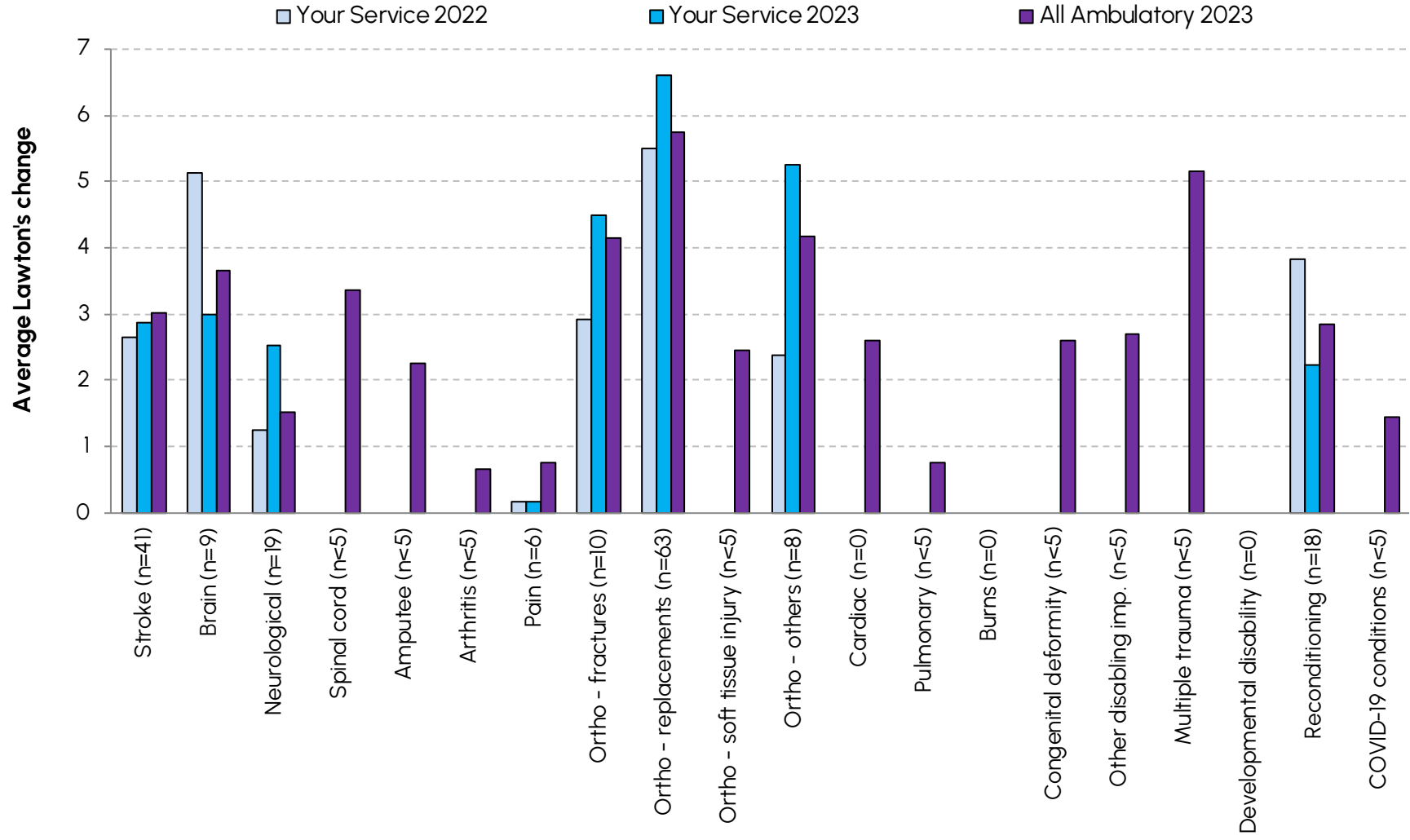


Proportion of episodes
All Ambulatory 2023

Independence outcomes by impairment group

Impairment group	Your Service 2022		Your Service 2023		All Ambulatory 2023	
	No.	Equivalent independence outcome (%)	No.	Equivalent independence outcome (%)	No.	Equivalent independence outcome (%)
Stroke	45	62.2	41	73.2	1,480	75.9
Brain	8	87.5	9	100.0	212	84.9
Neurological	18	77.8	21	76.2	489	87.7
Spinal cord	5	100.0	3	100.0	75	74.7
Amputee	4	100.0	3	33.3	96	82.3
Arthritis	4	100.0	2	100.0	99	94.9
Pain	5	40.0	6	100.0	146	76.0
Ortho - fractures	12	75.0	11	81.8	307	88.9
Ortho - replacements	64	100.0	63	100.0	2,334	98.7
Ortho - soft tissue injury	1	100.0	3	66.7	33	93.9
Ortho - others	8	87.5	9	100.0	270	97.4
Cardiac	1	100.0	0	—	40	92.5
Pulmonary	1	100.0	3	100.0	42	95.2
Burns	0	—	0	—	0	—
Congenital deformity	0	—	2	100.0	5	80.0
Other disabling imp.	1	0.0	3	100.0	73	86.3
Multiple trauma	1	0.0	1	100.0	29	72.4
Developmental disability	0	—	0	—	1	—
Reconditioning	17	88.2	18	94.4	635	89.6
COVID-19 conditions	0	—	1	100.0	23	95.7
Missing or excluded	14		9		356	
All episodes	209	83.1	207	88.9	6,722	89.2

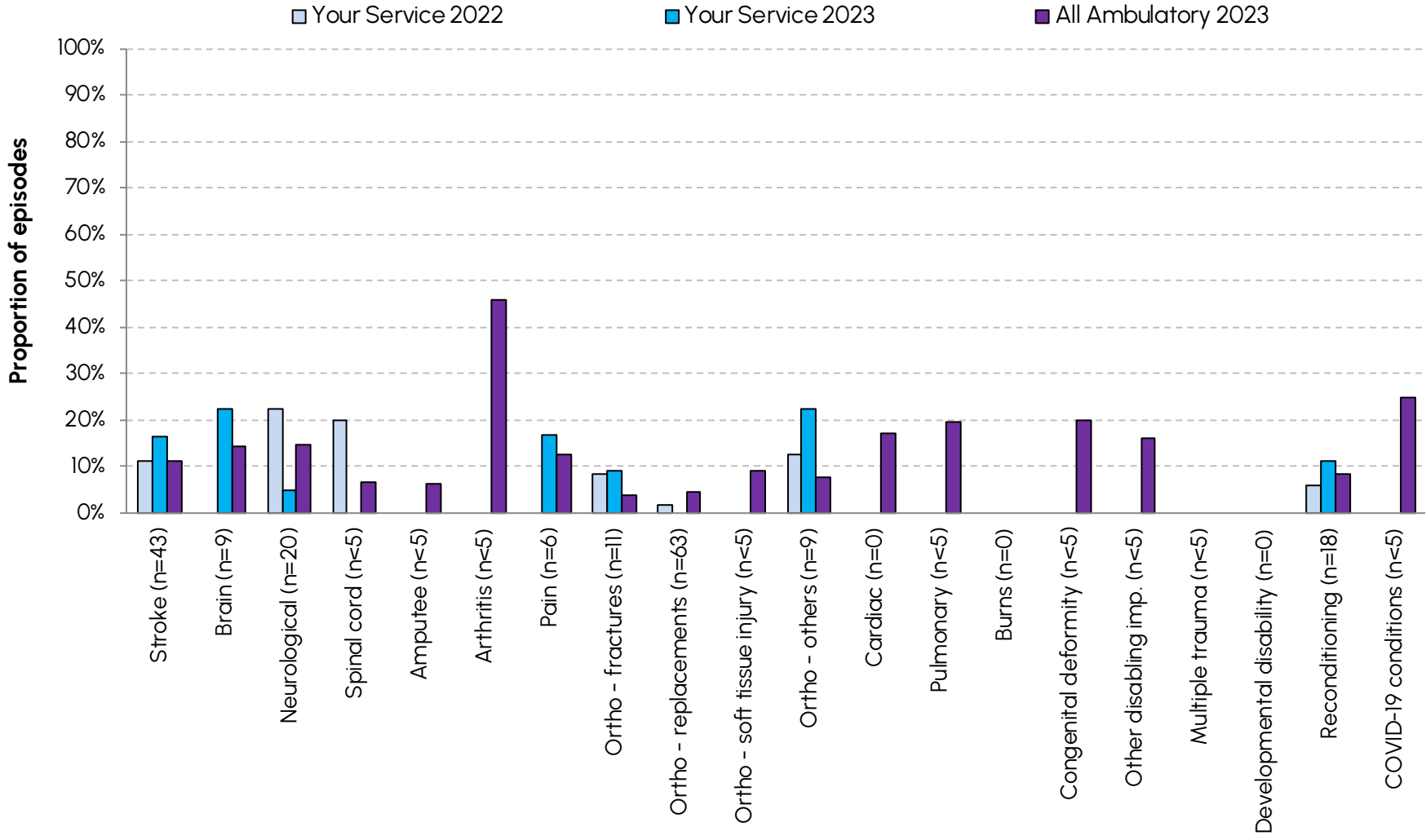
Lawton's score change by impairment



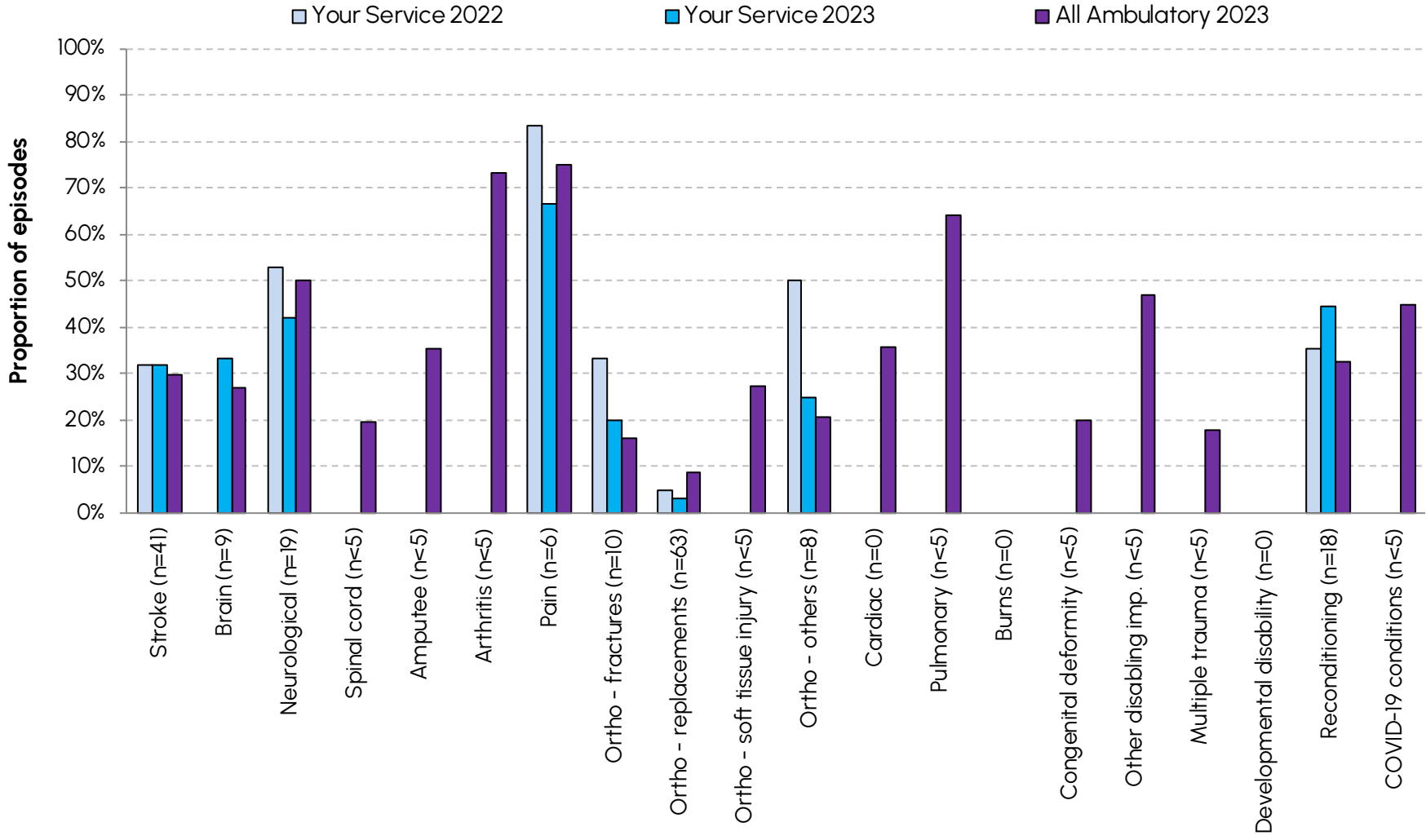
Lawton's score change by impairment

Impairment group	Your Service 2022		Your Service 2023		All Ambulatory 2023	
	No.	Avg. Lawton's change	No.	Avg. Lawton's change	No.	Avg. Lawton's change
Stroke	44	2.7	41	2.9	1,449	3.0
Brain	8	5.1	9	3.0	204	3.7
Neurological	17	1.2	19	2.5	462	1.5
Spinal cord	4	4.3	3	5.0	76	3.4
Amputee	4	1.3	3	1.3	93	2.2
Arthritis	2	0.5	1	0.0	93	0.6
Pain	6	0.2	6	0.2	136	0.8
Ortho - fractures	12	2.9	10	4.5	304	4.2
Ortho - replacements	61	5.5	63	6.6	2,314	5.7
Ortho - soft tissue injury	1	4.0	3	1.7	33	2.5
Ortho - others	8	2.4	8	5.3	262	4.2
Cardiac	1	0.0	0	—	39	2.6
Pulmonary	0	—	2	1.5	25	0.8
Burns	0	—	0	—	0	—
Congenital deformity	0	—	2	3.5	5	2.6
Other disabling imp.	1	0.0	2	0.0	68	2.7
Multiple trauma	1	7.0	1	0.0	28	5.1
Developmental disability	0	—	0	—	1	—
Reconditioning	17	3.8	18	2.2	621	2.8
COVID-19 conditions	0	—	1	2.0	20	1.5
Missing or excluded	22		16		509	
All episodes	209	3.6	207	4.0	6,722	3.9

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



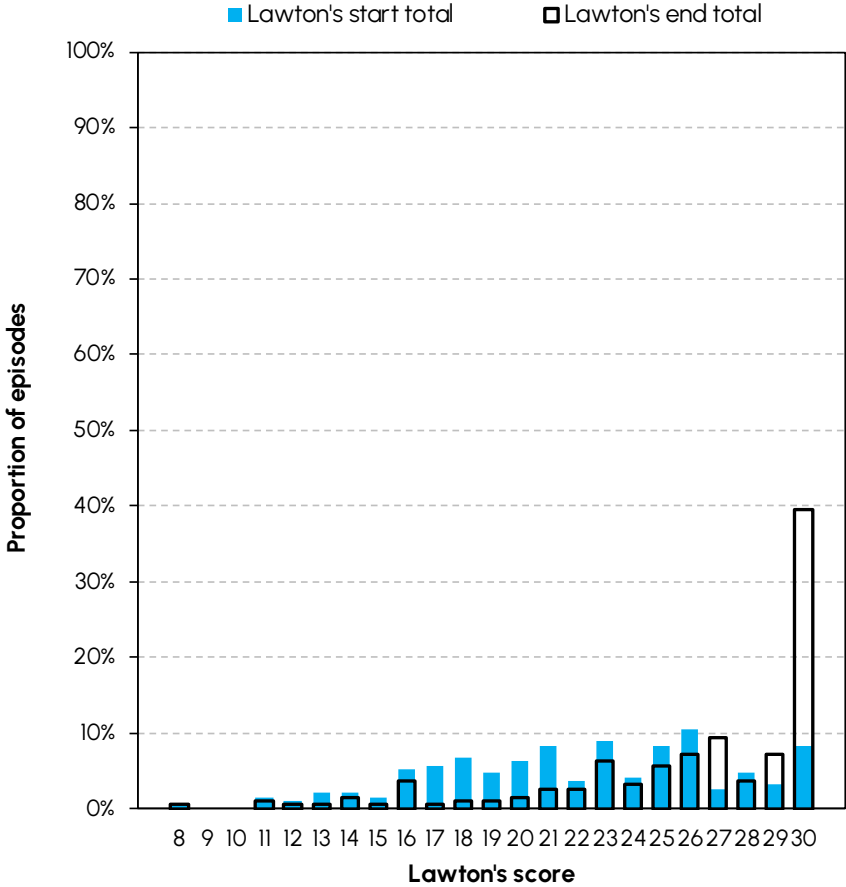
Episodes with no change in Lawton's score by impairment group



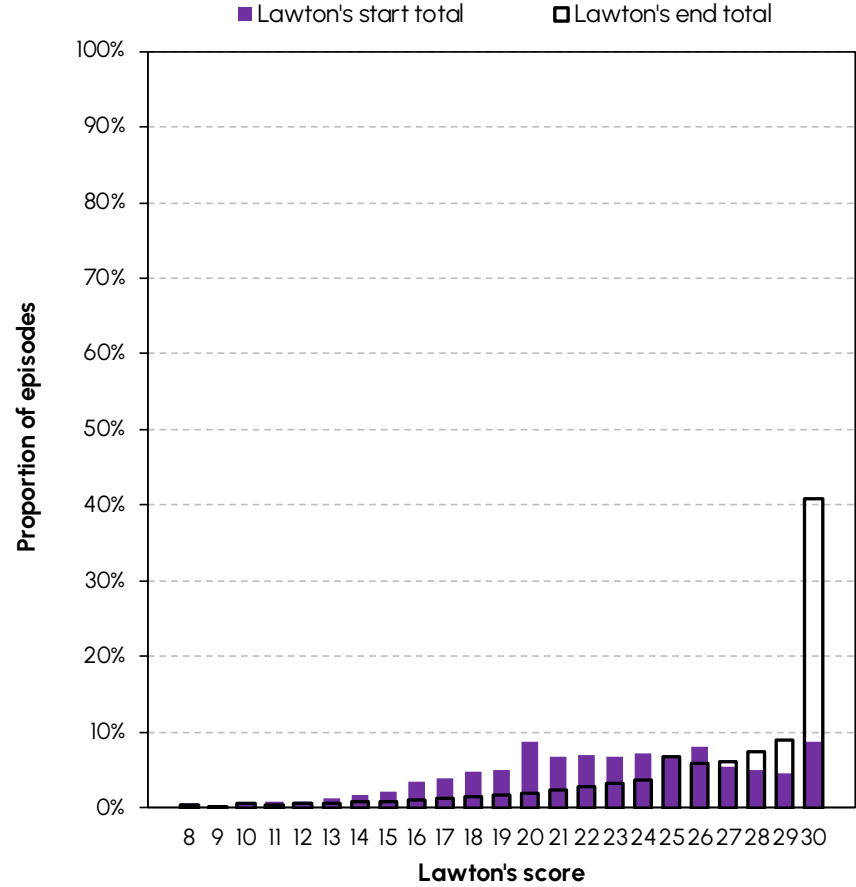
Lawton's start and end total – all episodes



Your Service 2023 (n=192)



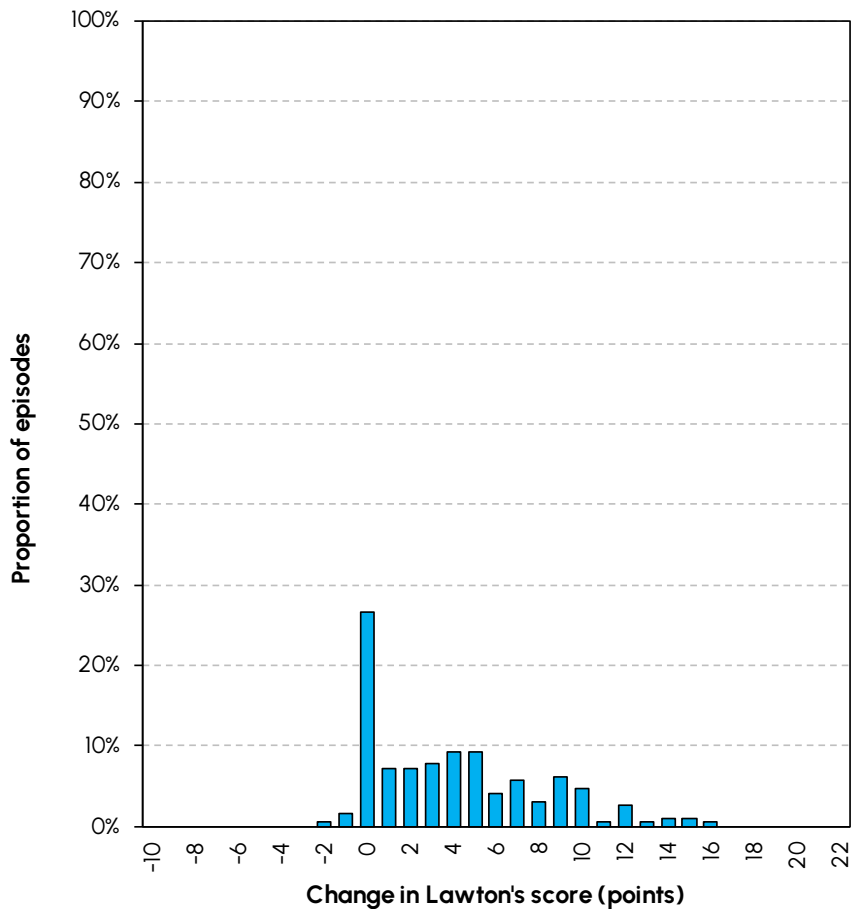
All Ambulatory 2023 (n=6,236)



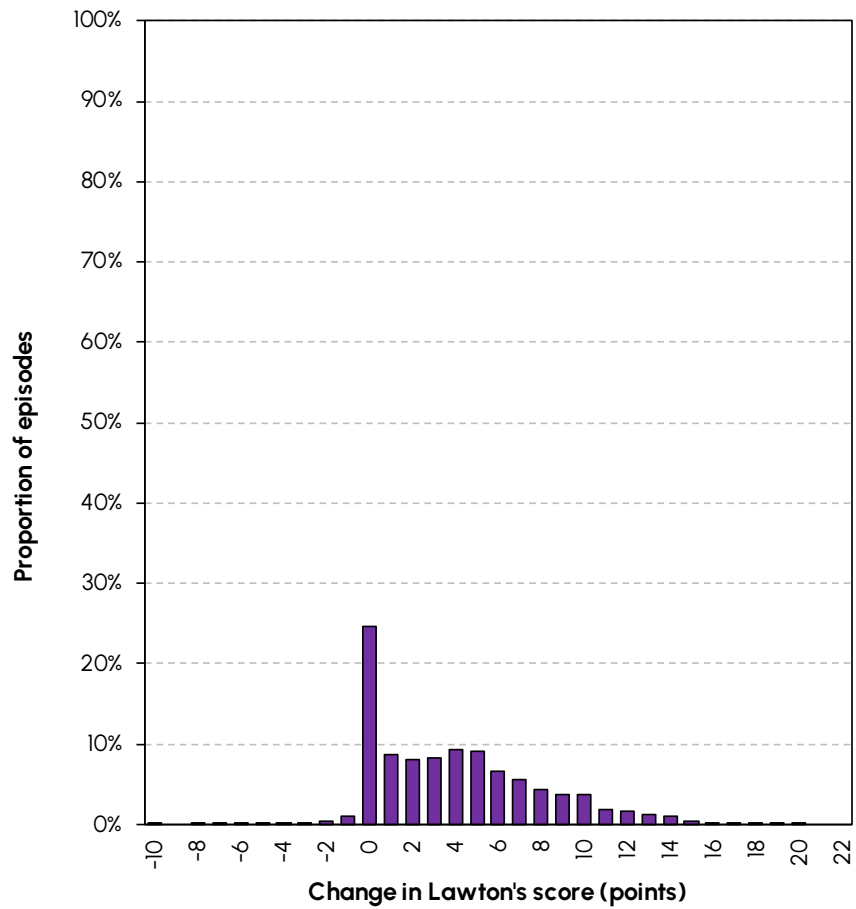
Change in Lawton's score – all episodes



Your Service 2023 (n=192)



All Ambulatory 2023 (n=6,233)

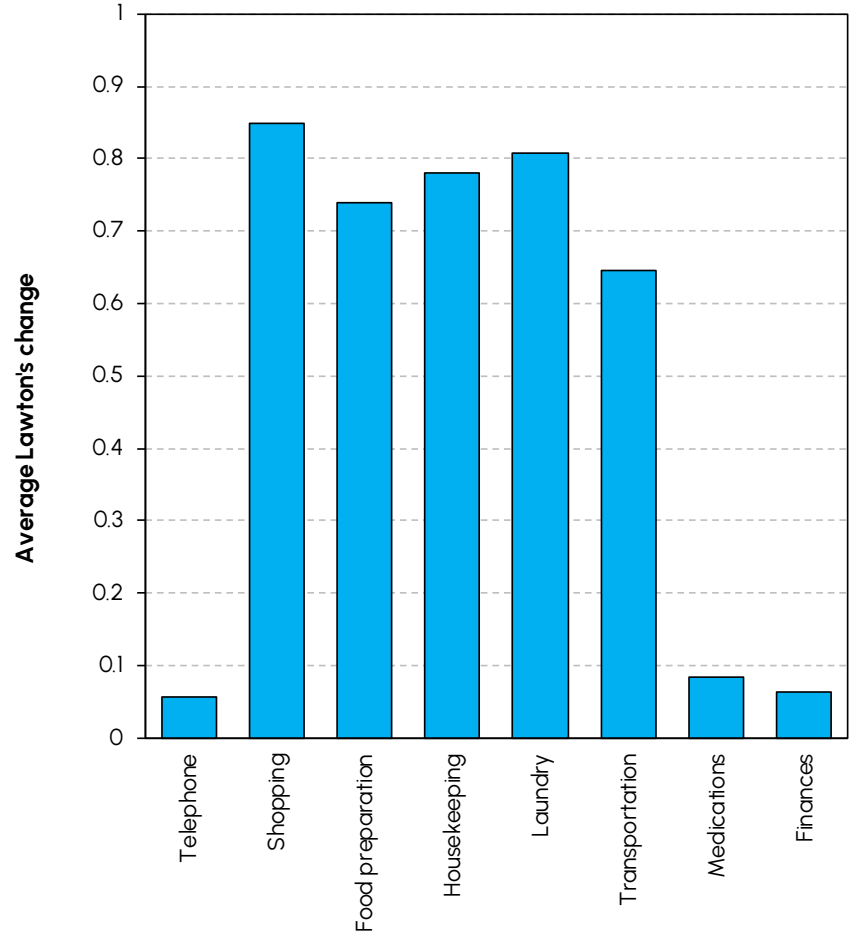


Note: 3 episode(s) had a Lawton's change score < -10.

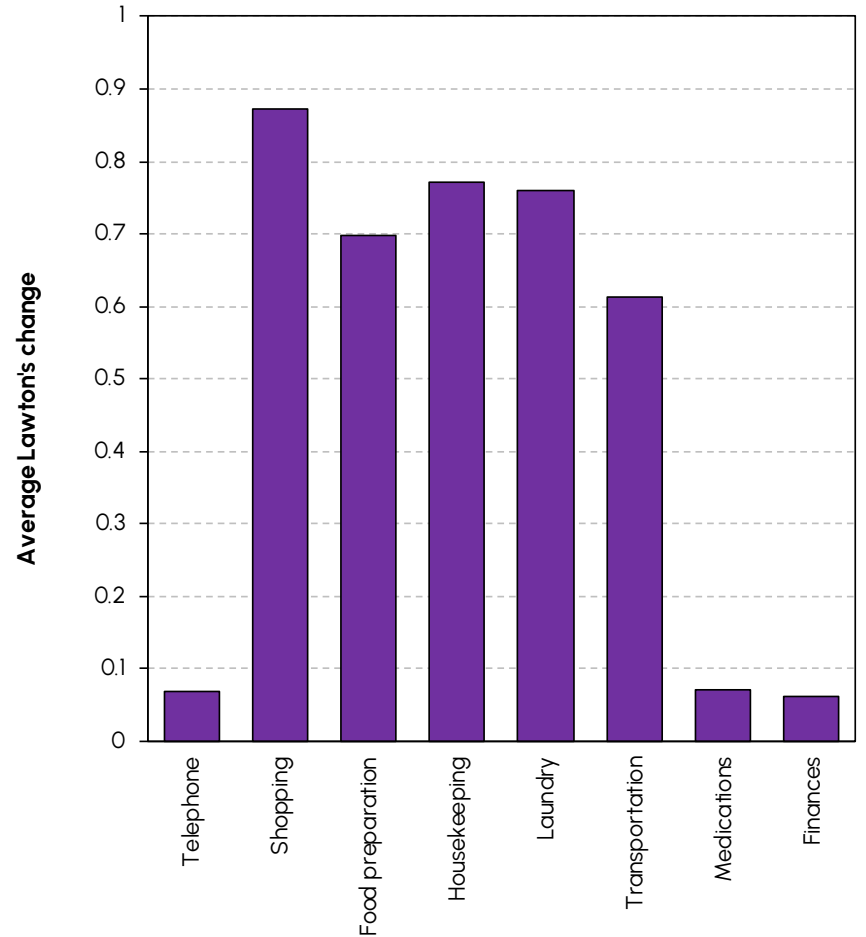
Change in Lawton's item scores – all episodes



Your Service 2023 (n=192)



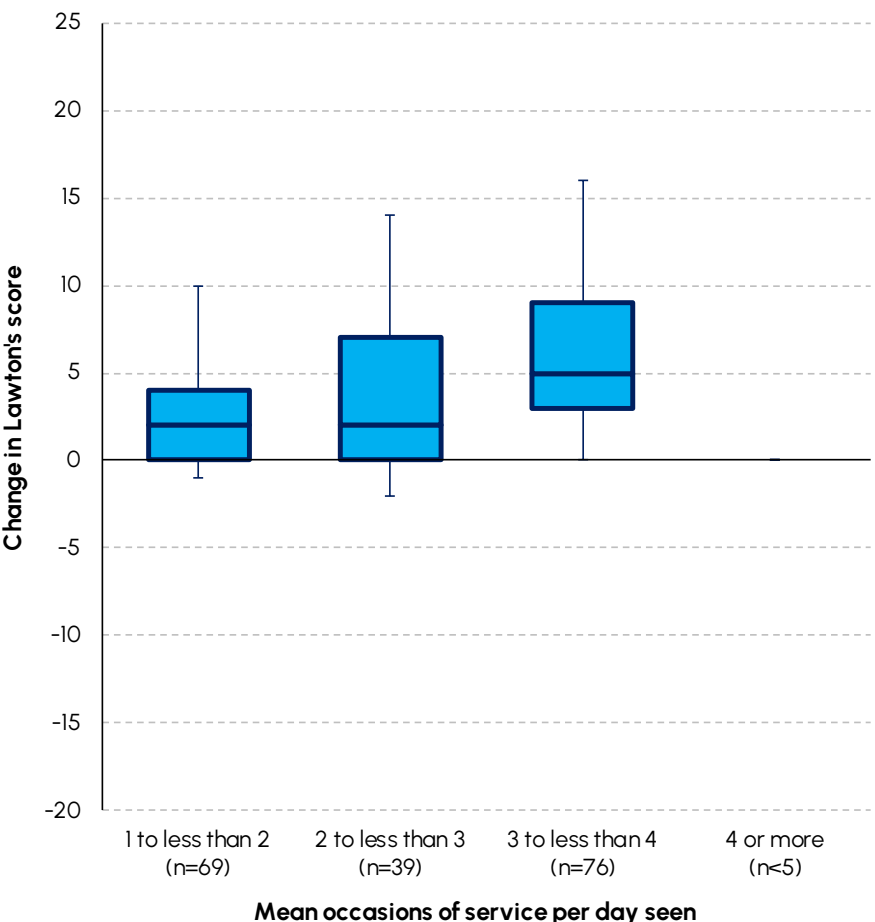
All Ambulatory 2023 (n=6,233)



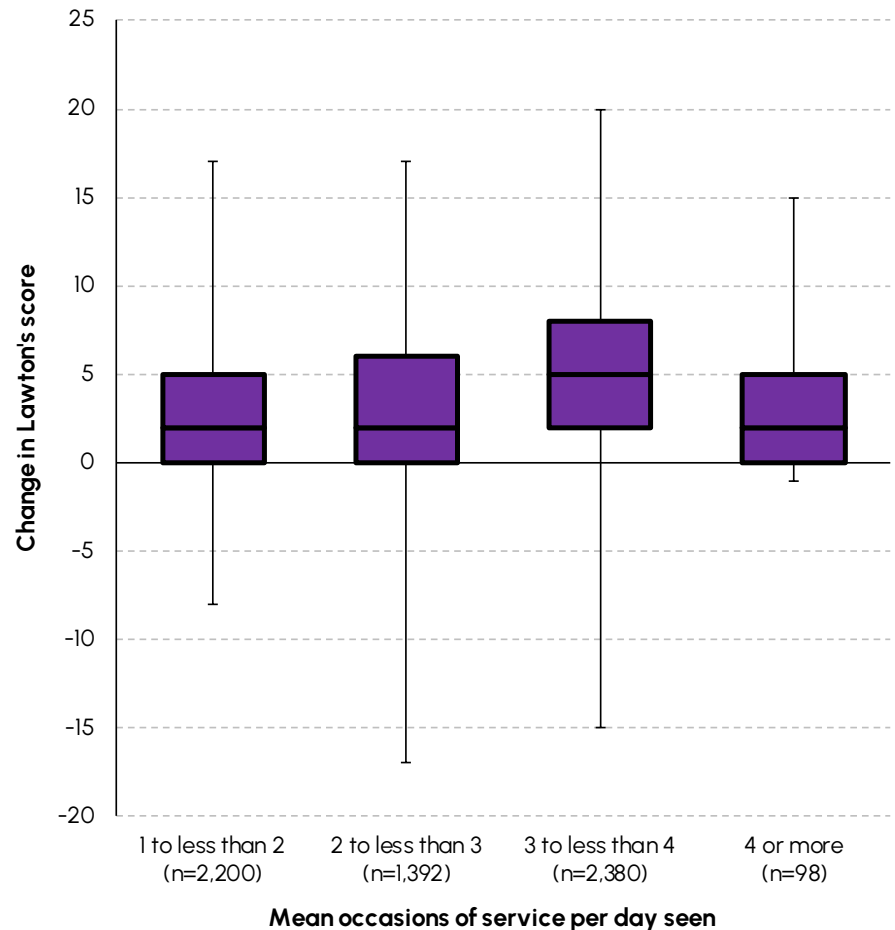
Note: 3 episode(s) had a Lawton's change score < -10.

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

Your Service 2023



All Ambulatory 2023

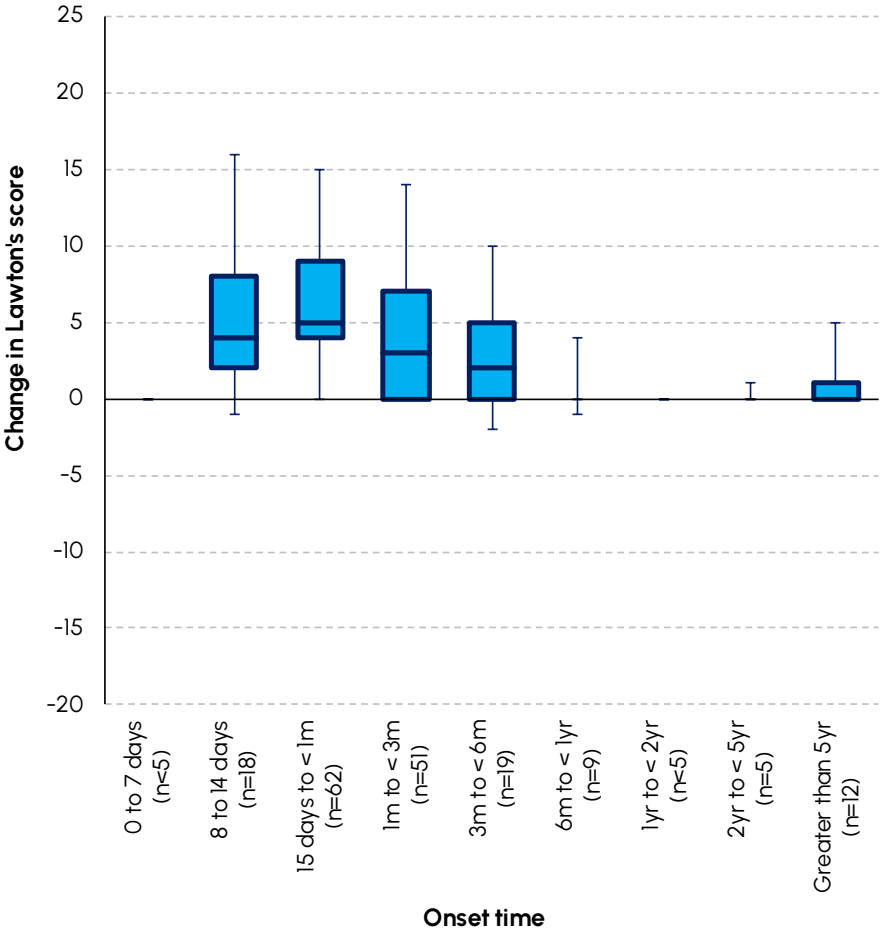


NOTE: To understand how to interpret these figures please refer to Appendix 3

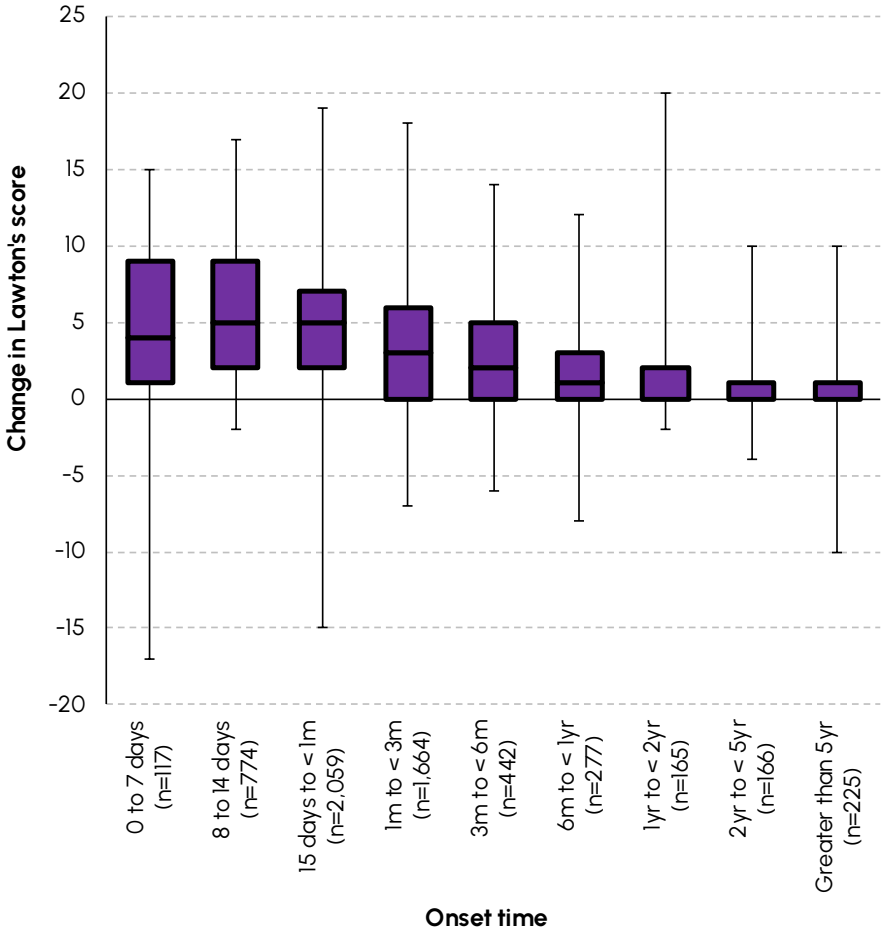
Change in Lawton's score by onset time – all episodes



Your Service 2023



All Ambulatory 2023



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)



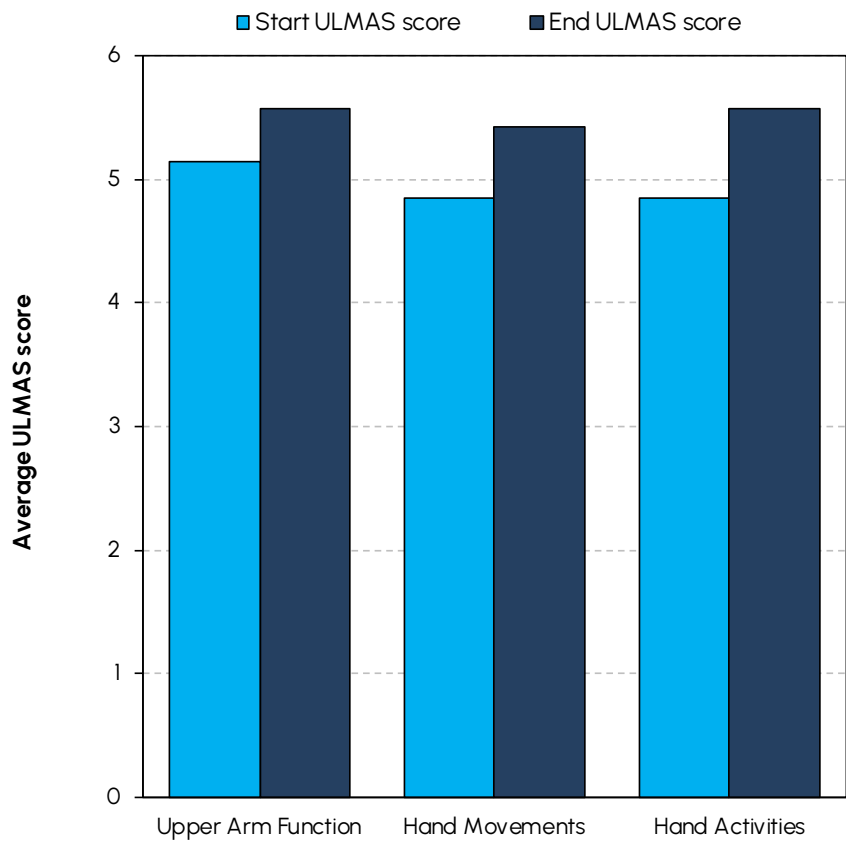
- This data item is collected in addition to the Australian Modified Lawton's IADL Scale for patients who have sustained upper limb impairment following a stroke.
- The UL-MAS is used to assess everyday upper limb motor function in adults following stroke.

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

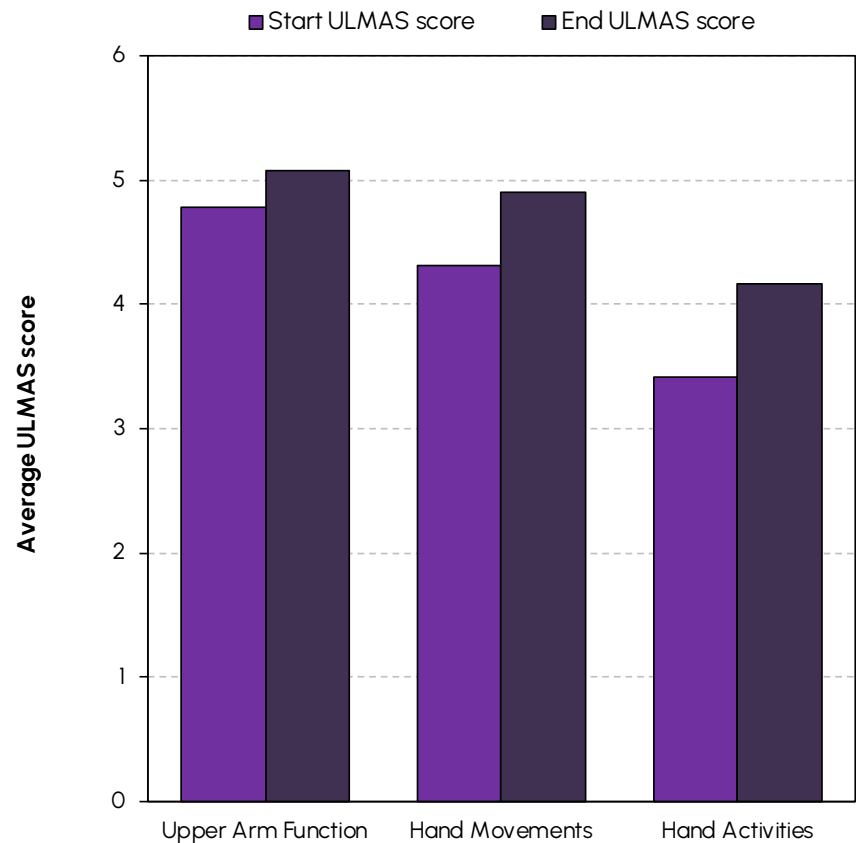
Average ULMAS start and end score by sub-group



Your Service 2023 (n=7)

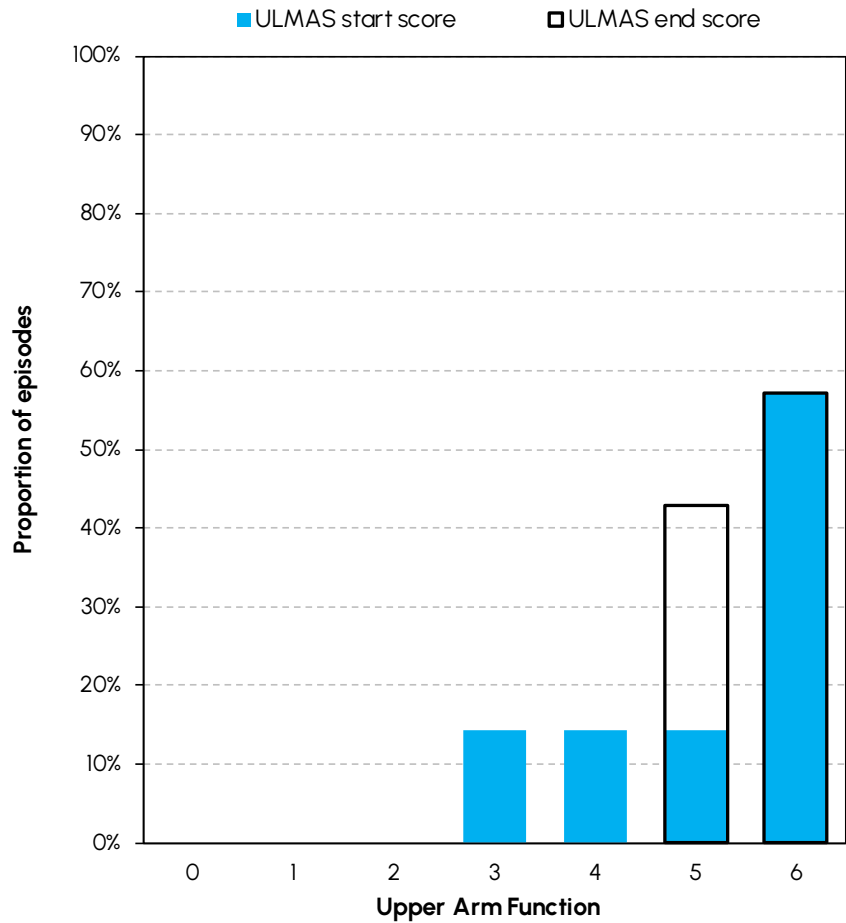


All Ambulatory 2023 (n=234)

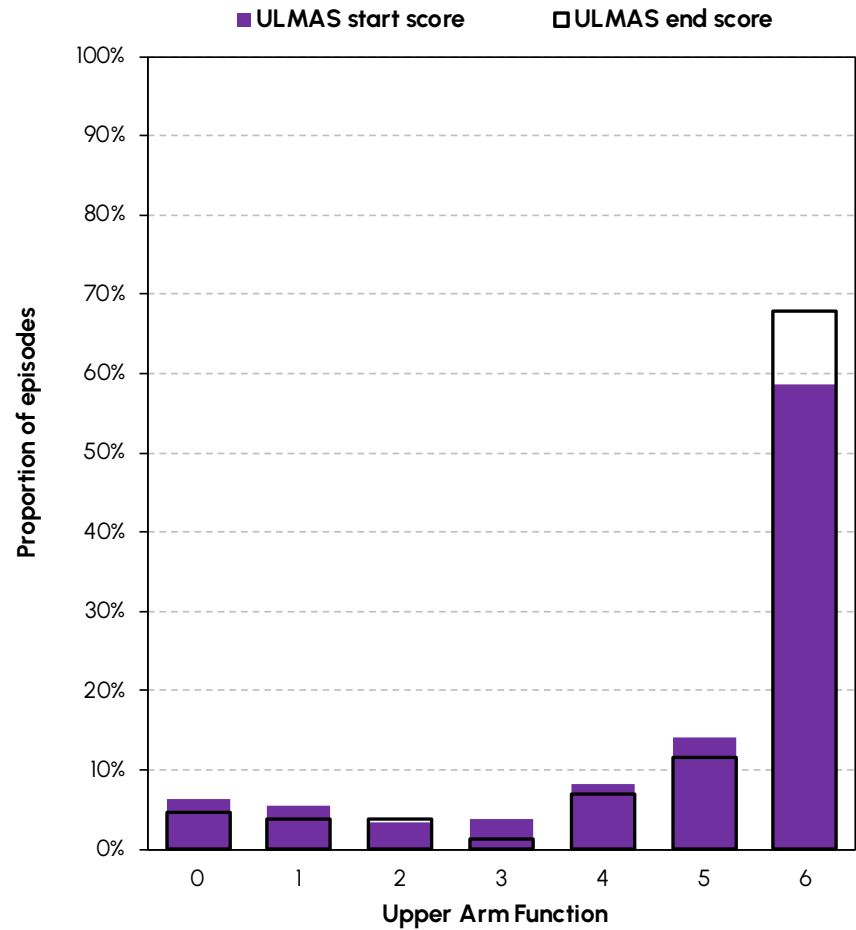


ULMAS start and end total – Upper arm function

Your Service 2023 (n=7)



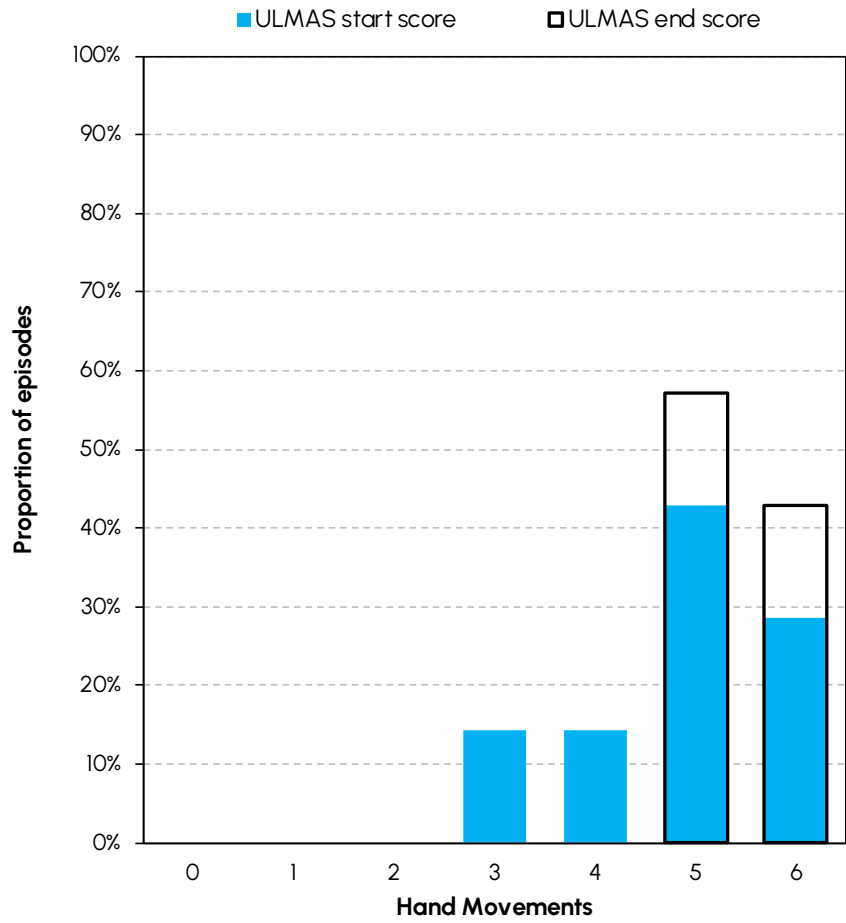
All Ambulatory 2023 (n=234)



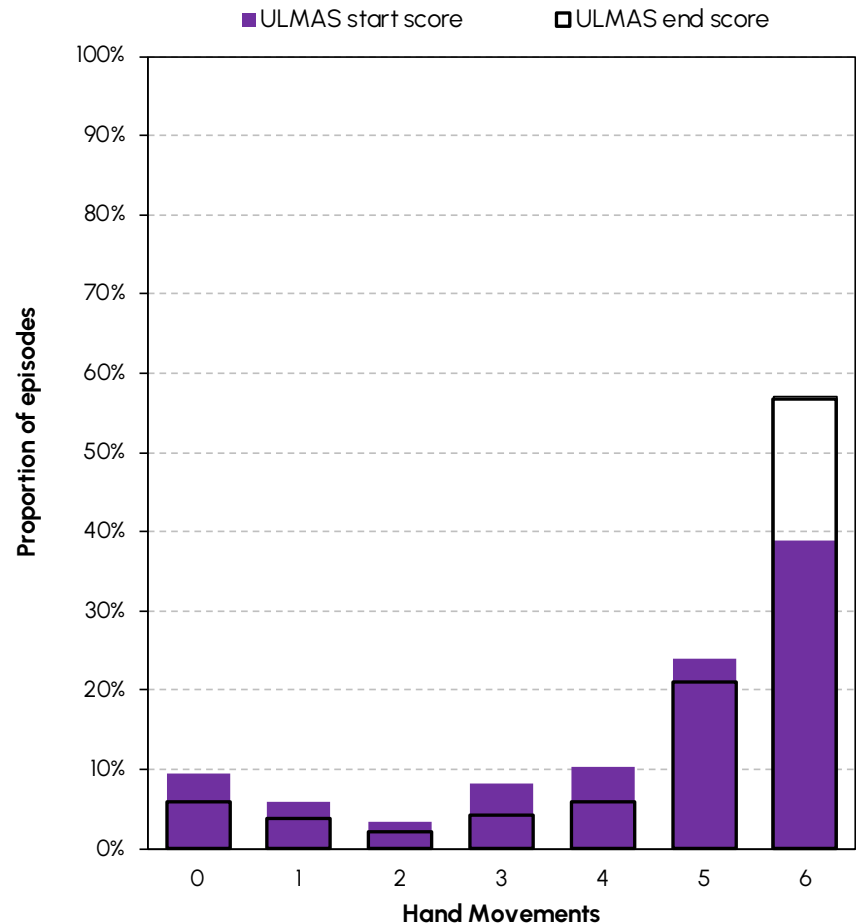
ULMAS start and end total – Hand movements



Your Service 2023 (n=7)

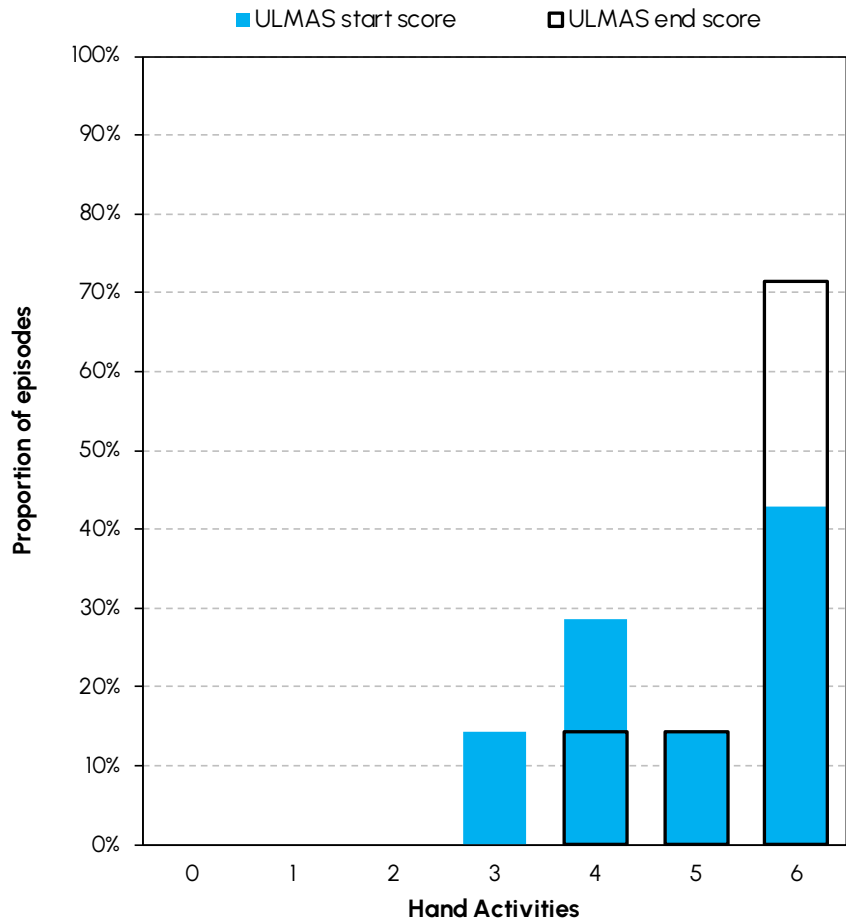


All Ambulatory 2023 (n=234)

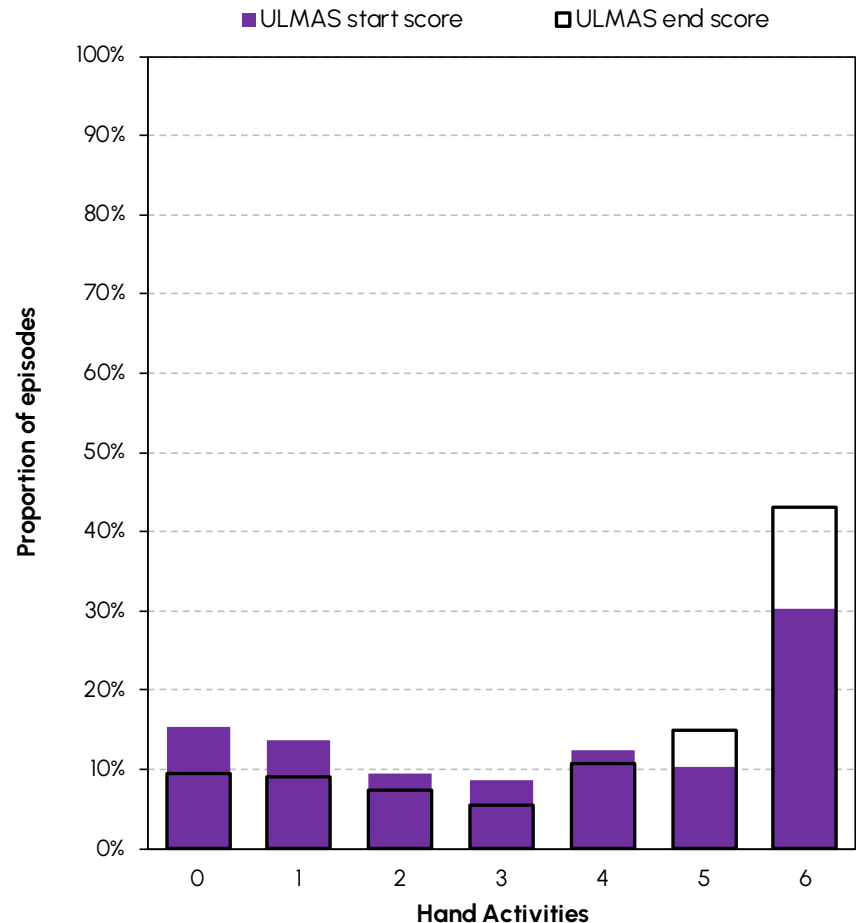


ULMAS start and end total – Hand activities

Your Service 2023 (n=7)



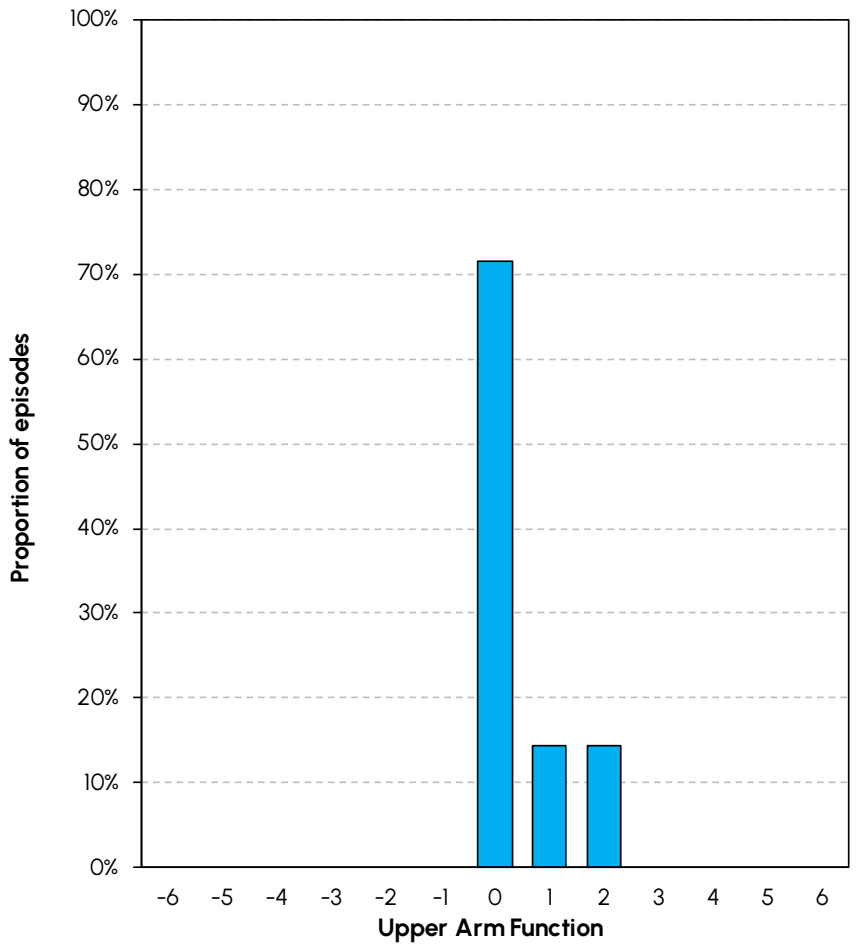
All Ambulatory 2023 (n=234)



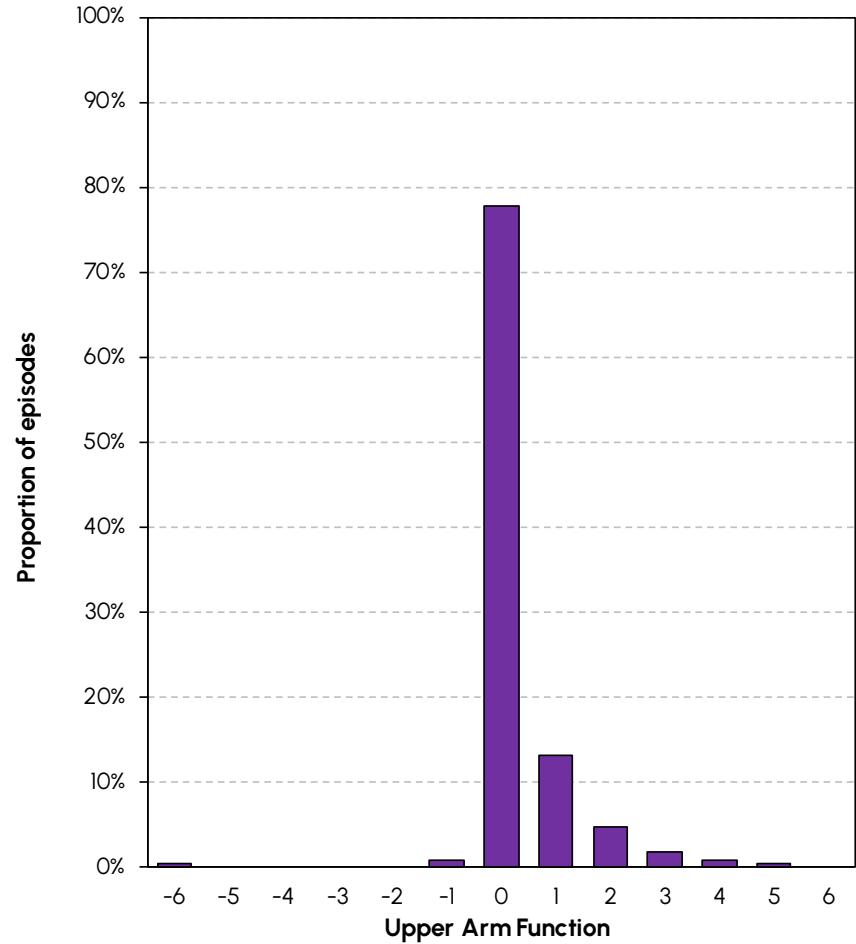
Change in ULMAS score – Upper arm function



Your Service 2023 (n=7)



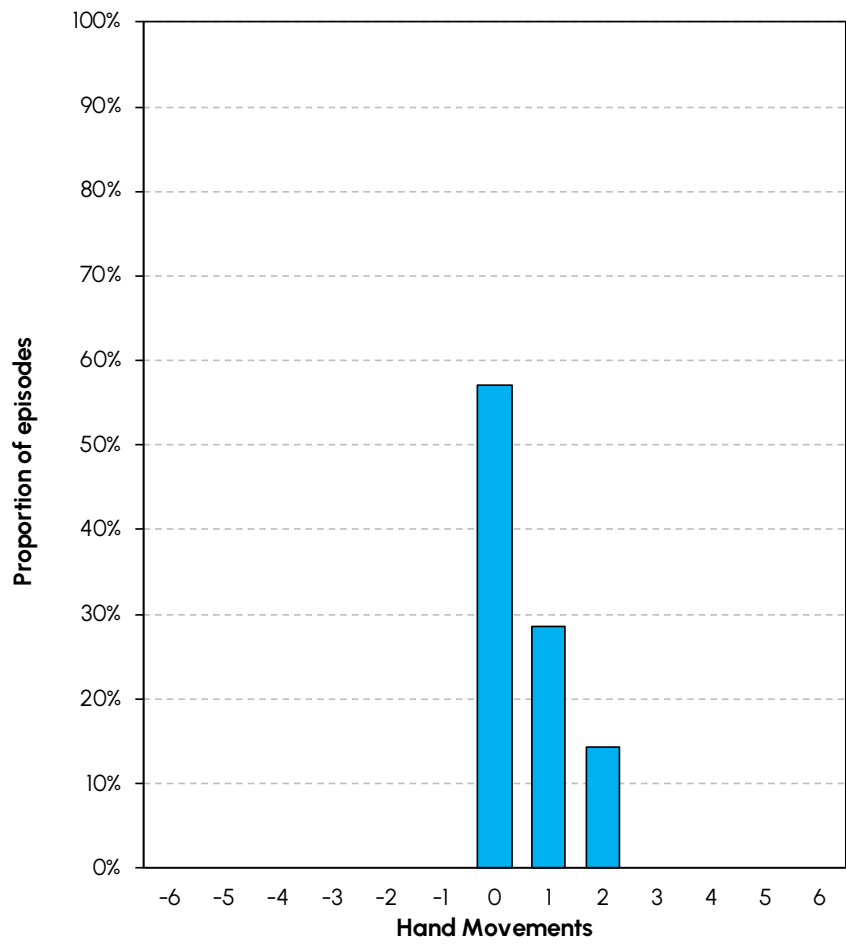
All Ambulatory 2023 (n=234)



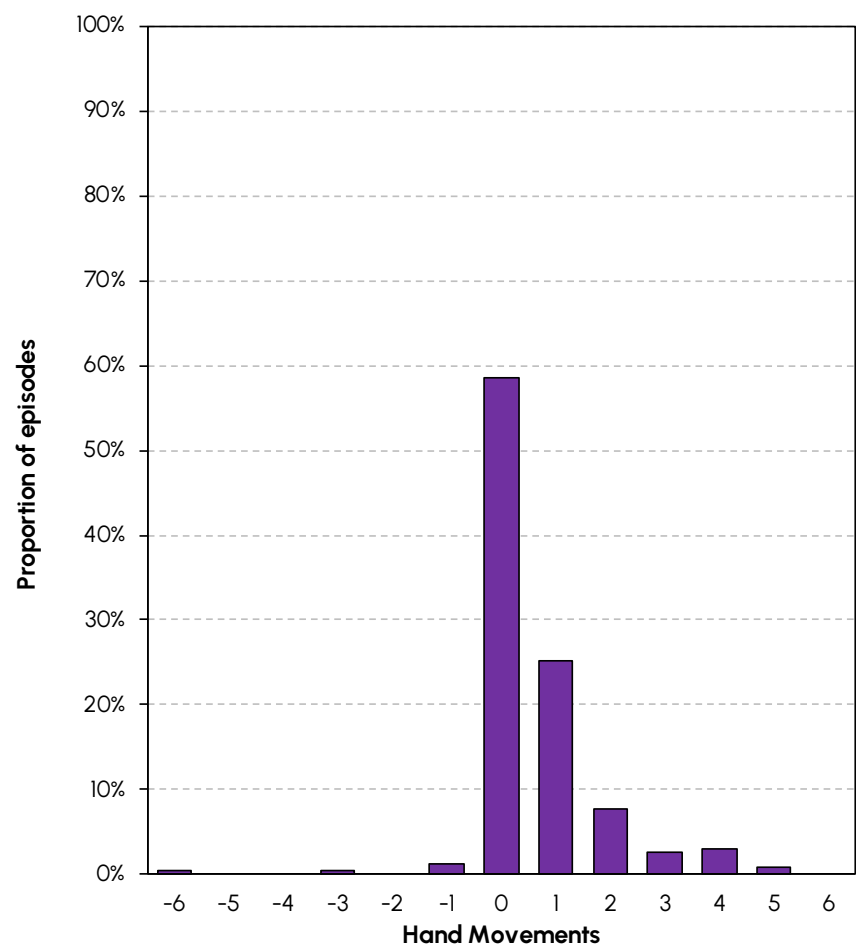
Change in ULMAS score – Hand movements



Your Service 2023 (n=7)



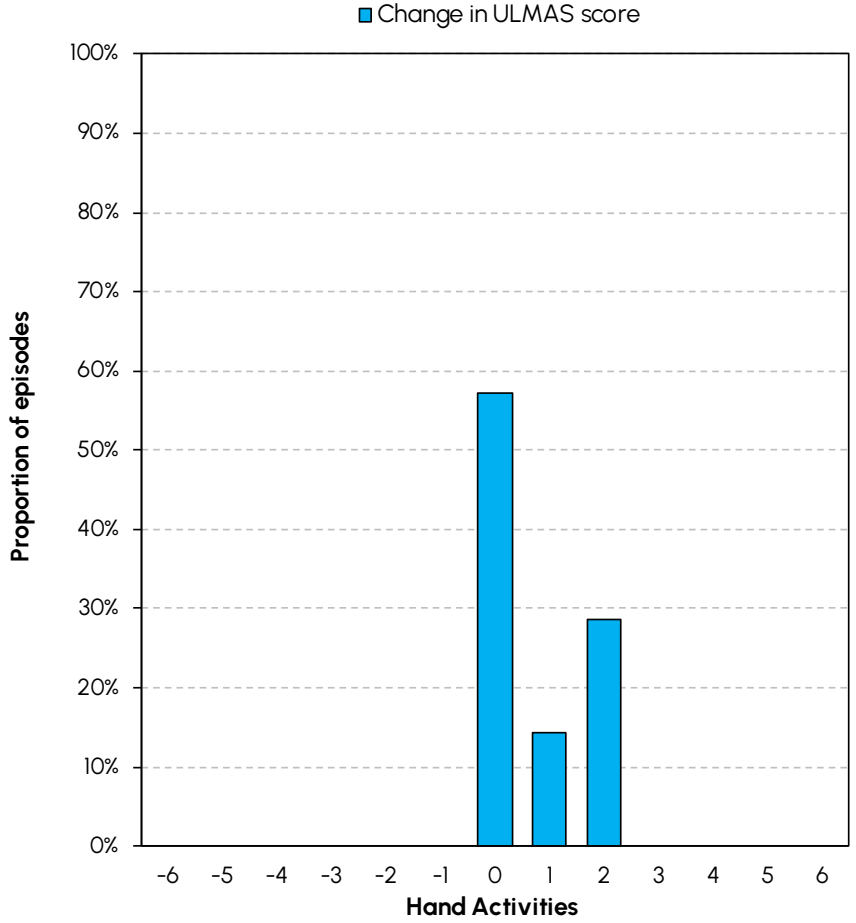
All Ambulatory 2023 (n=234)



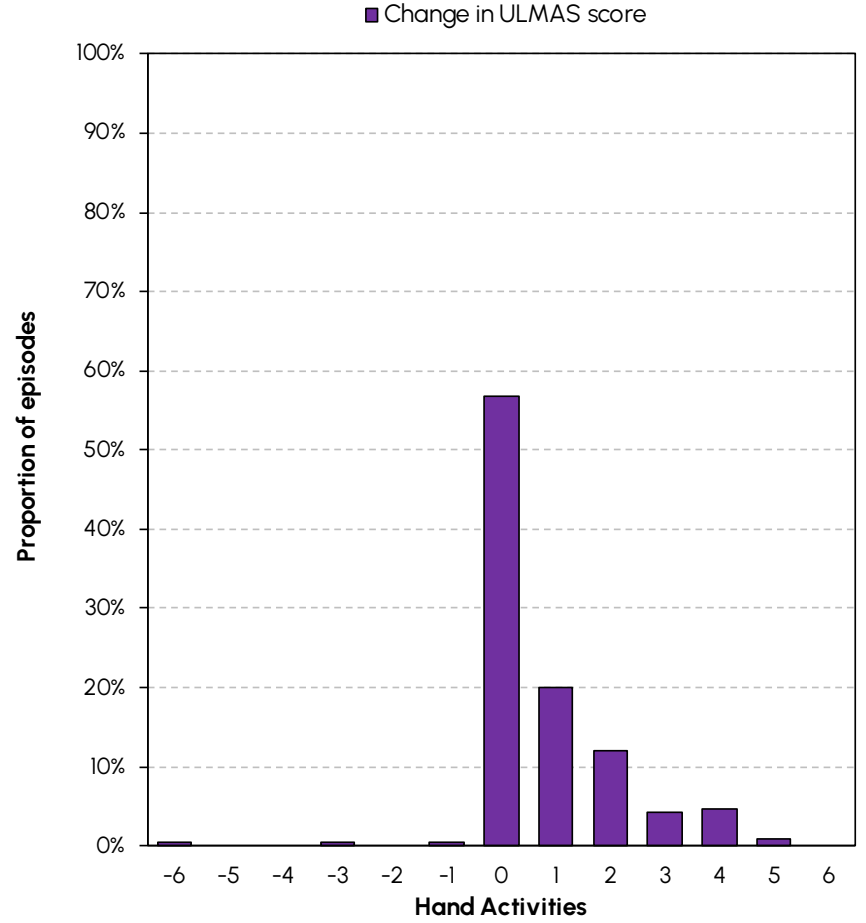
Change in ULMAS score – Hand activities



Your Service 2023 (n=7)

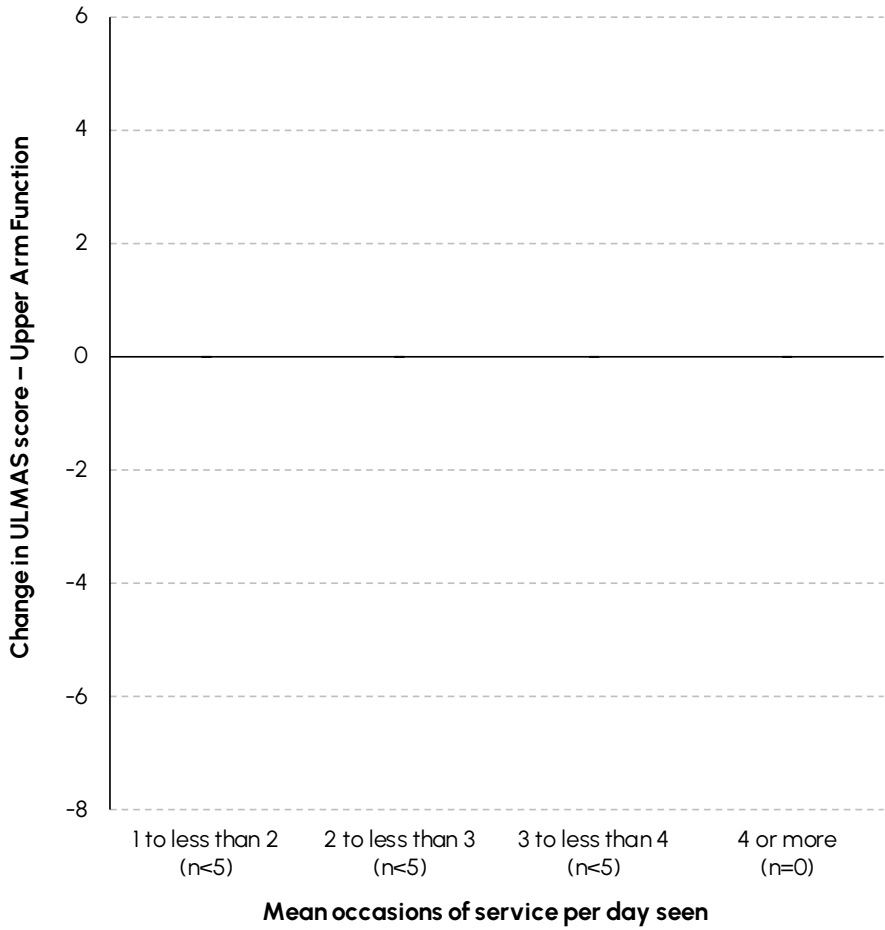


All Ambulatory 2023 (n=234)

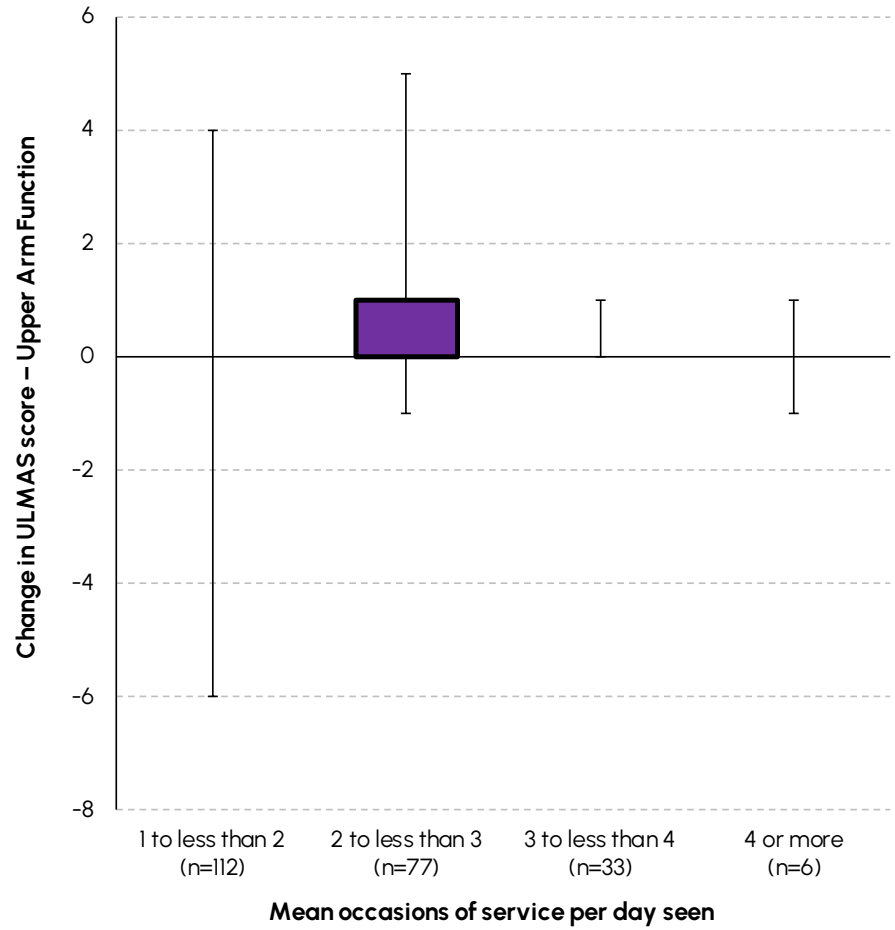


Change in ULMAS score by OOS/day seen – Upper arm function

Your Service 2023



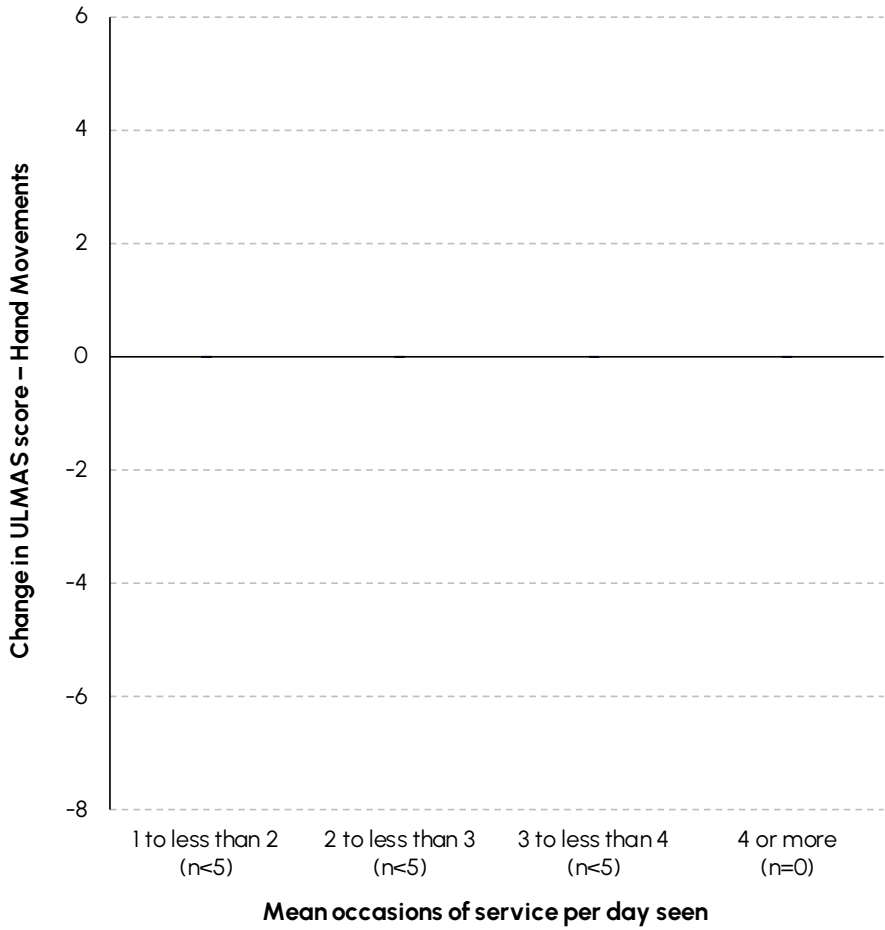
All Ambulatory 2023



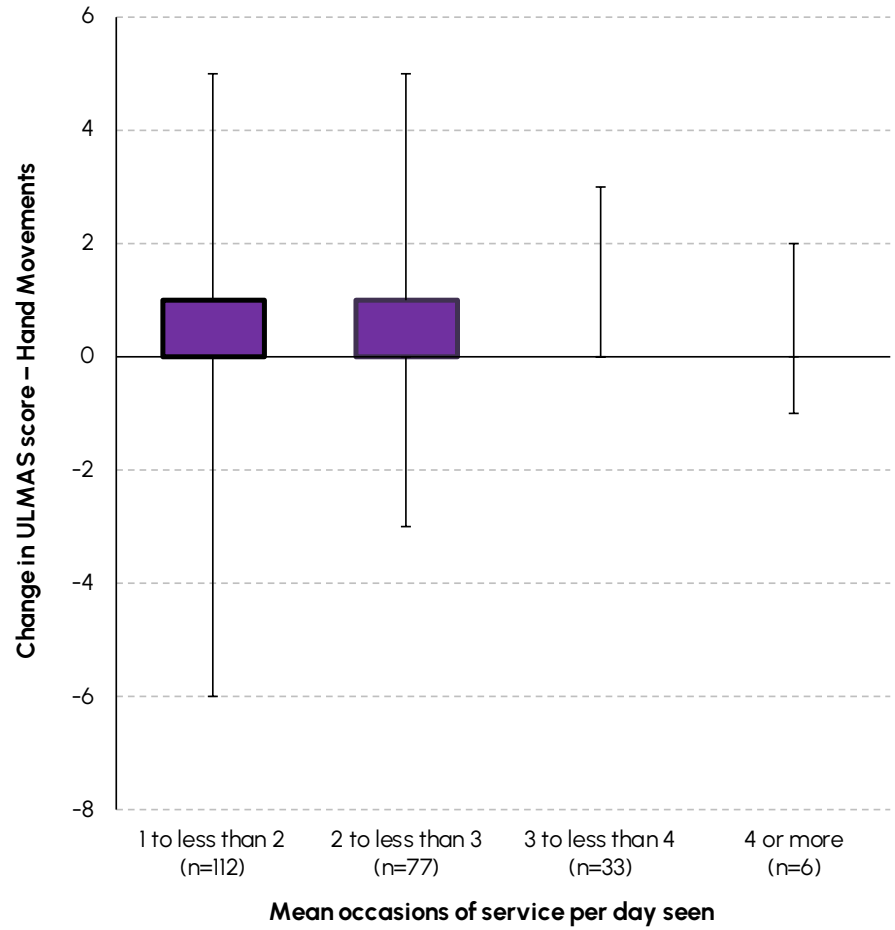
NOTE: To understand how to interpret these figures please refer to Appendix 3

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

Your Service 2023



All Ambulatory 2023

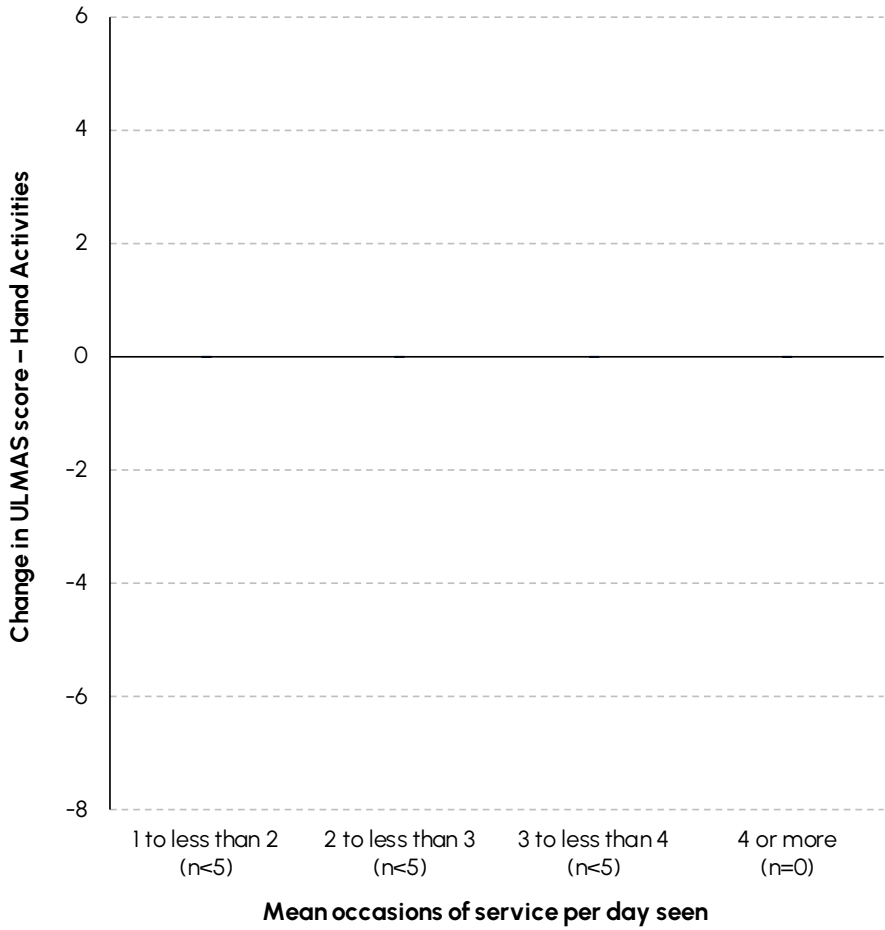


NOTE: To understand how to interpret these figures please refer to Appendix 3

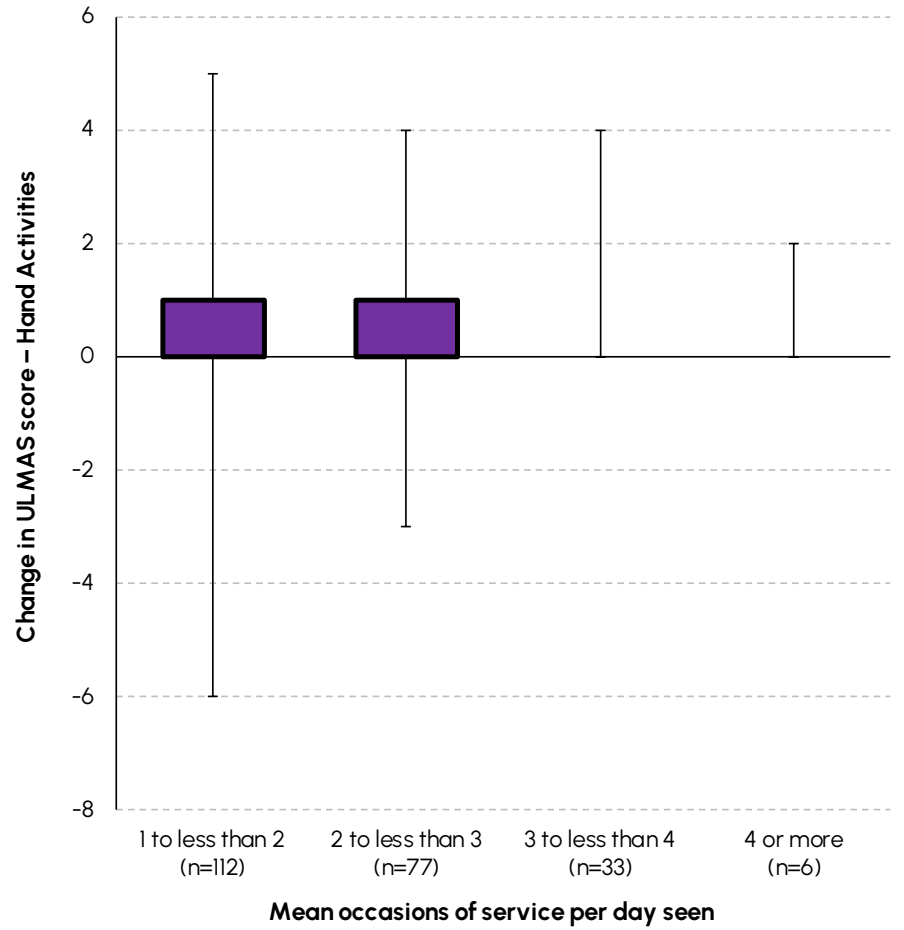
Change in ULMAS score by OOS/day seen – Hand activities



Your Service 2023



All Ambulatory 2023

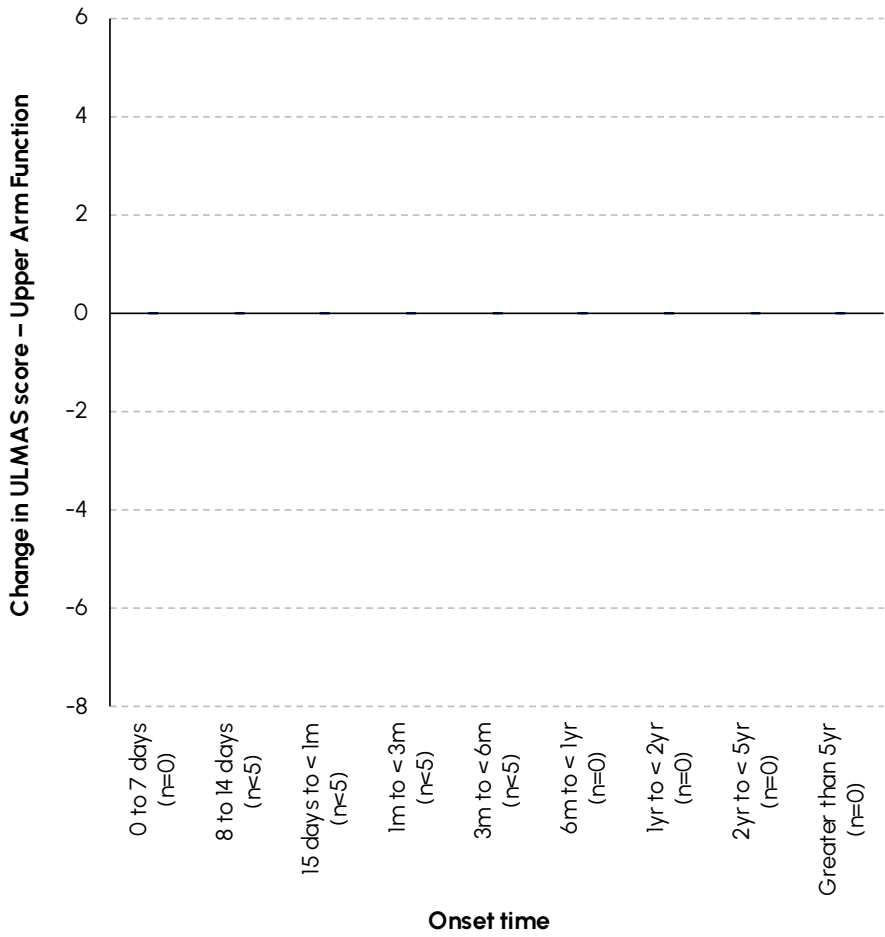


NOTE: To understand how to interpret these figures please refer to Appendix 3

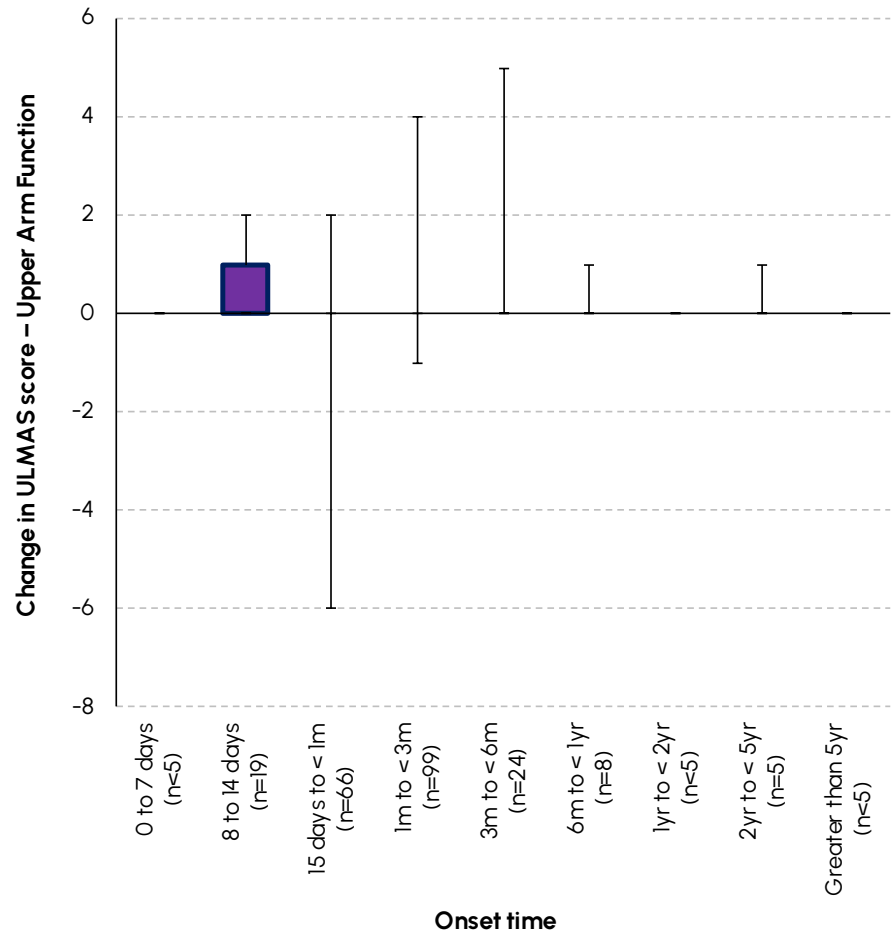
Change in ULMAS score by onset time – Upper arm function



Your Service 2023



All Ambulatory 2023

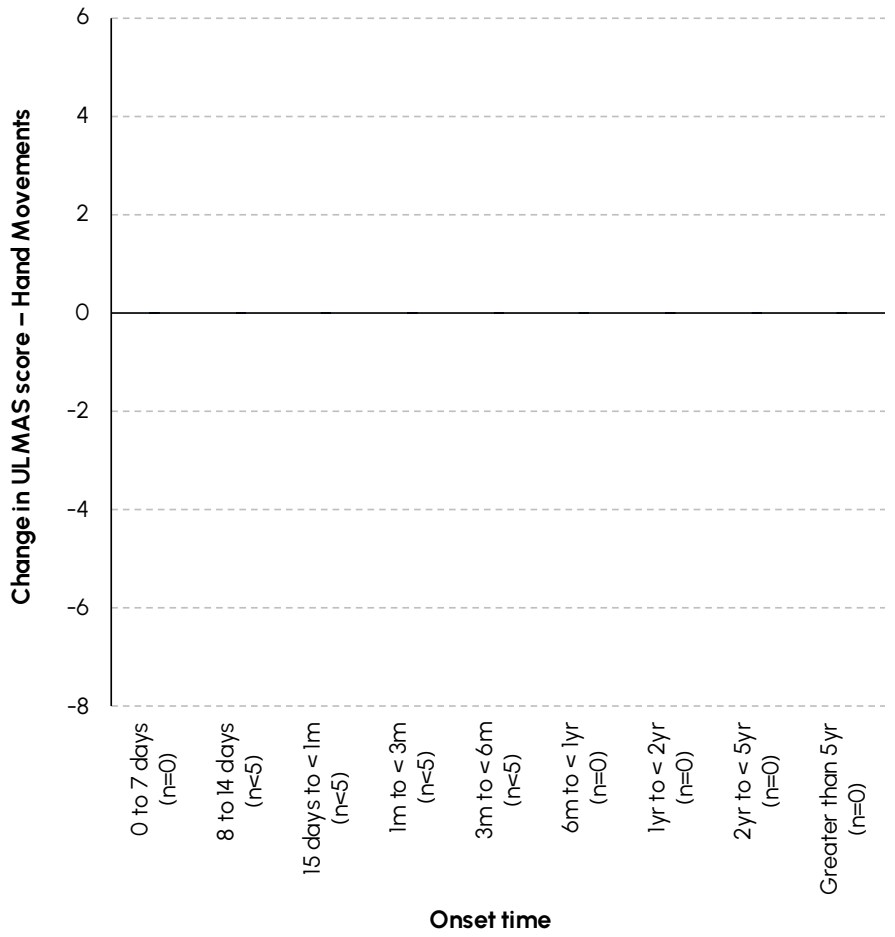


NOTE: To understand how to interpret these figures please refer to Appendix 3

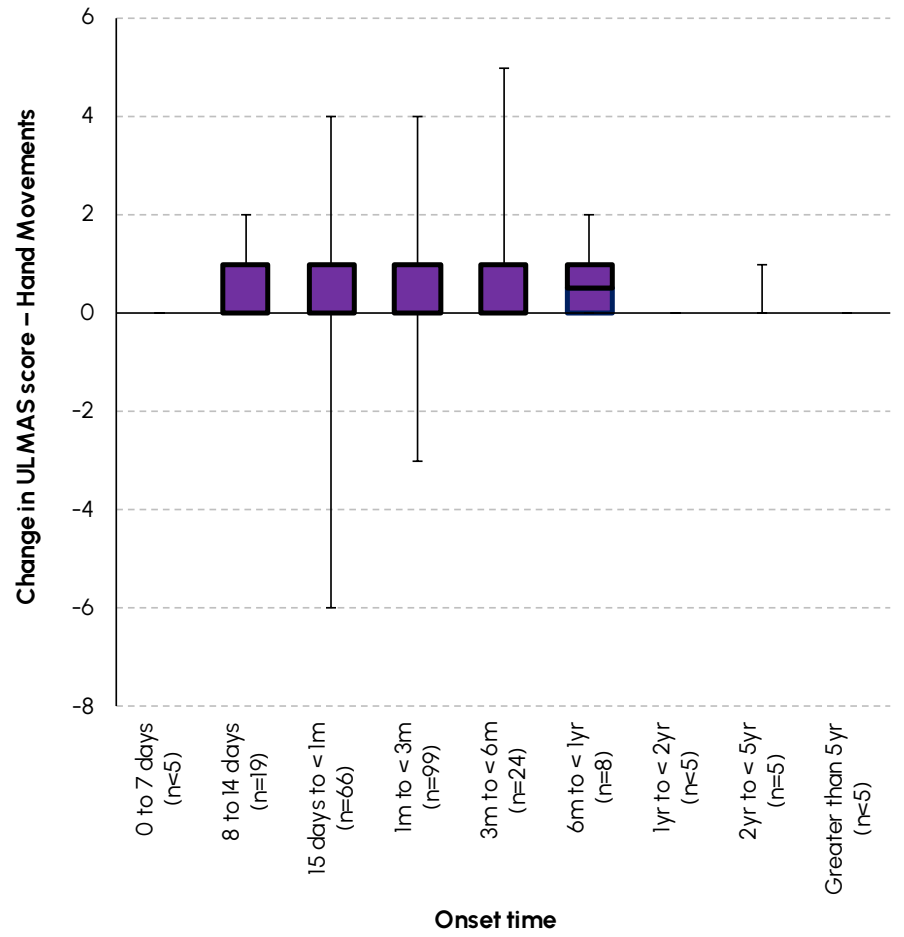
Change in ULMAS score by onset time – Hand movements



Your Service 2023



All Ambulatory 2023

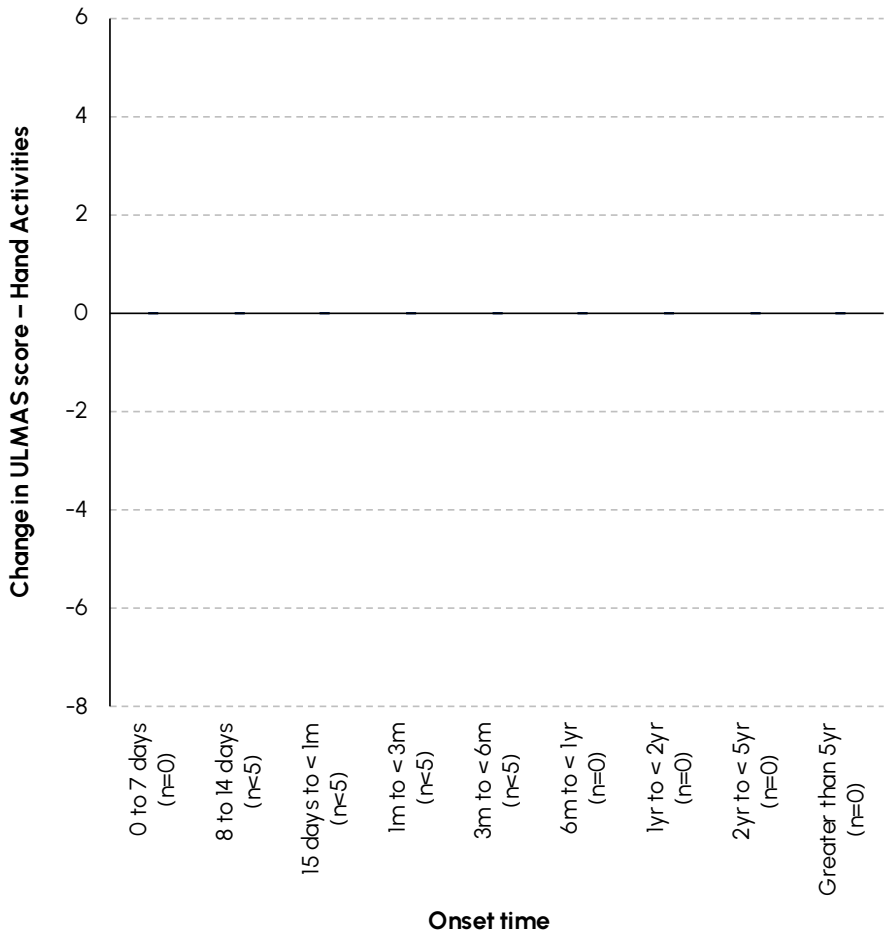


NOTE: To understand how to interpret these figures please refer to Appendix 3

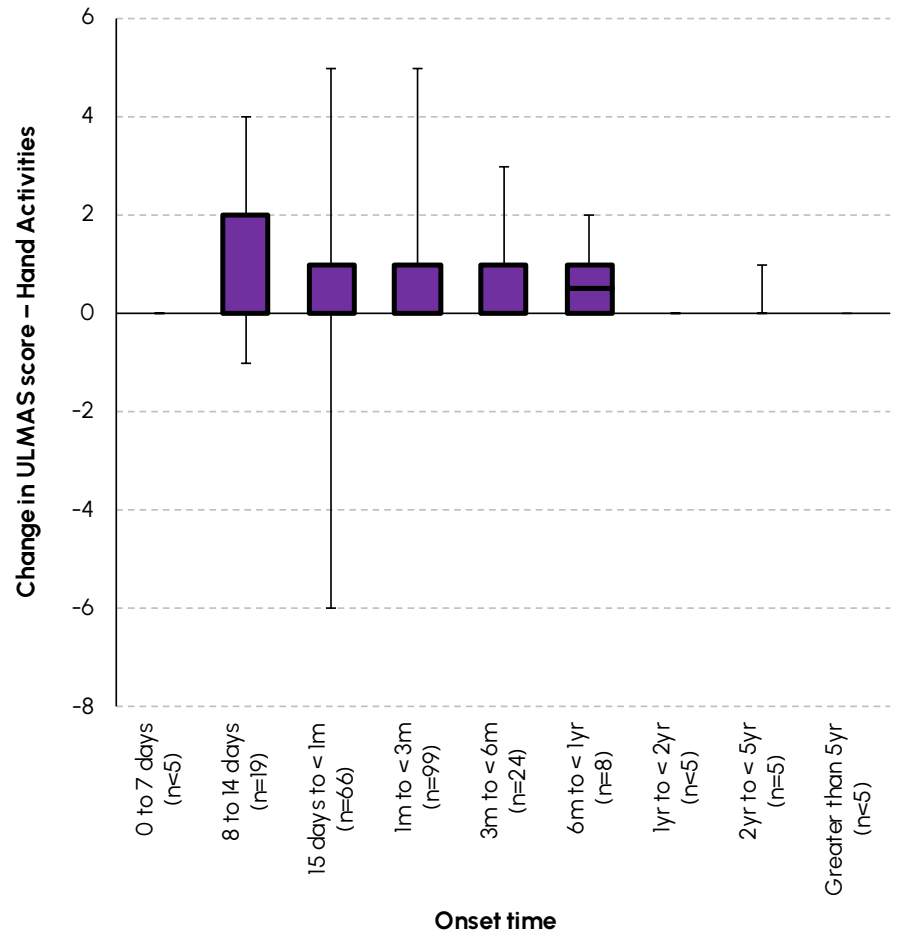
Change in ULMAS score by onset time – Hand activities



Your Service 2023



All Ambulatory 2023



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:

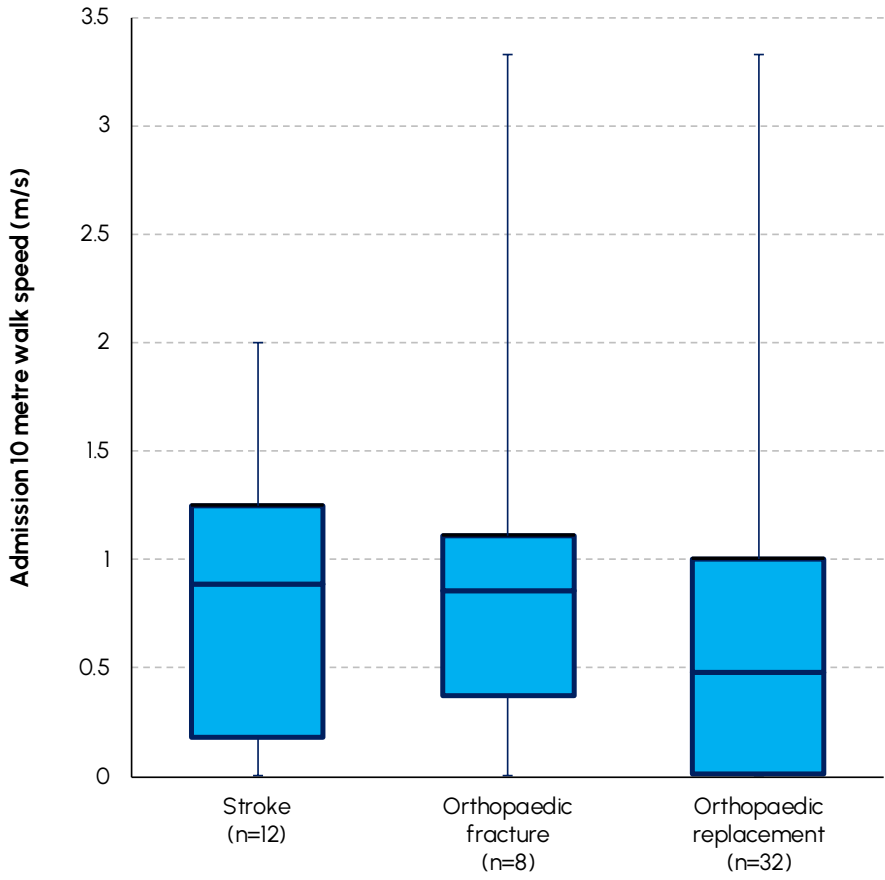
- Stroke
- Lower limb orthopaedic injury or joint replacement
- Amputation of lower limb (optional measure)

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

Admission timed 10 metre walk test speed by impairment

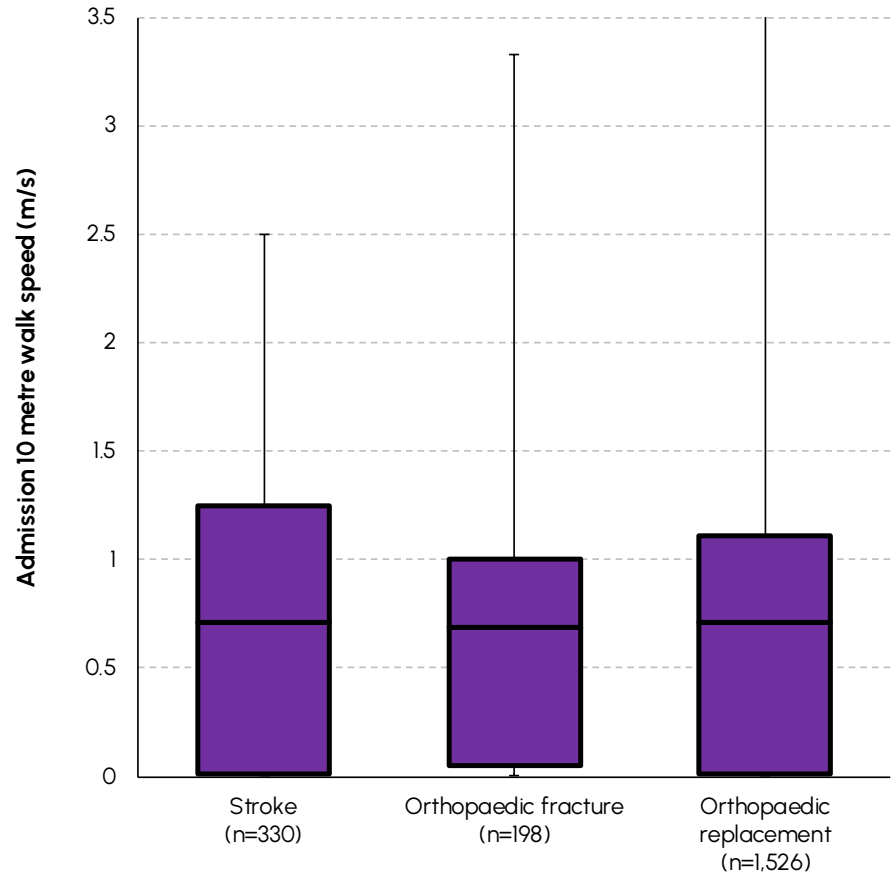


Your Service 2023



Note: All admissions.

All Ambulatory 2023



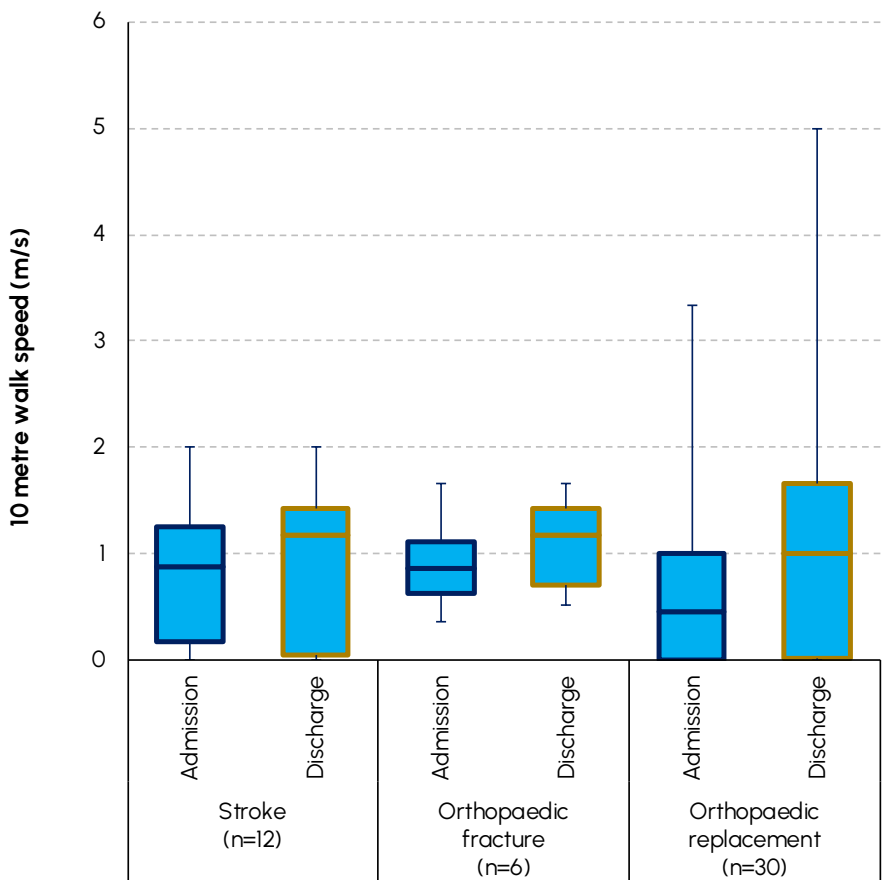
Note: All admissions.

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

Admission and discharge timed 10 metre walk test speed by impairment

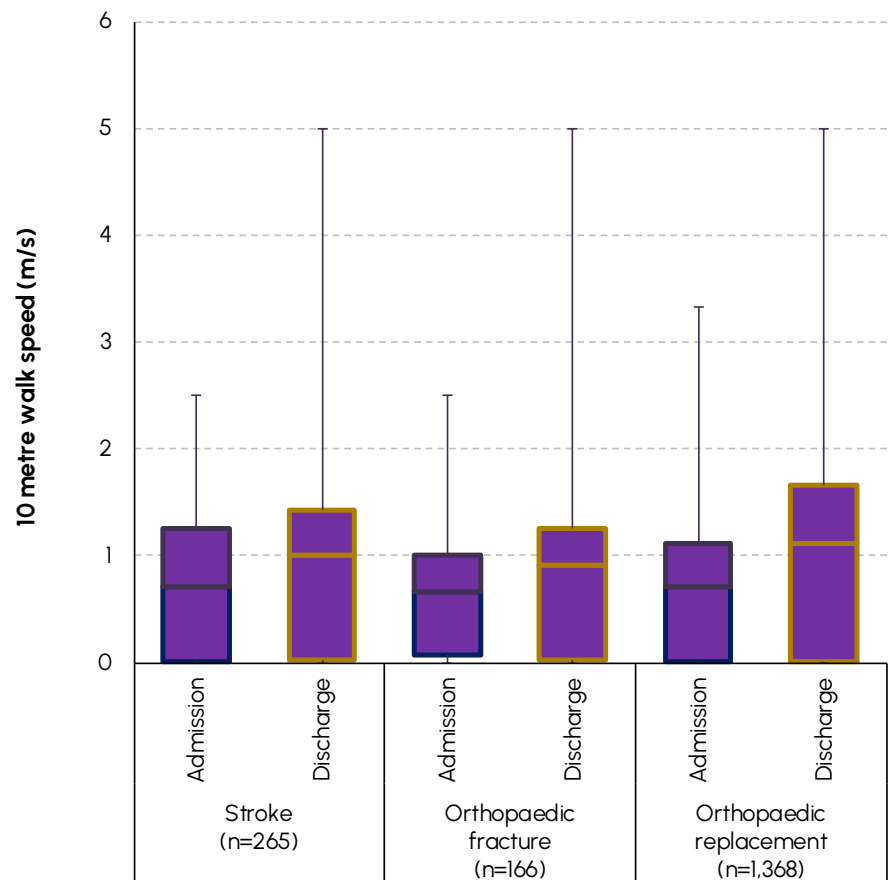


Your Service 2023



Note: Completed episodes only.

All Ambulatory 2023



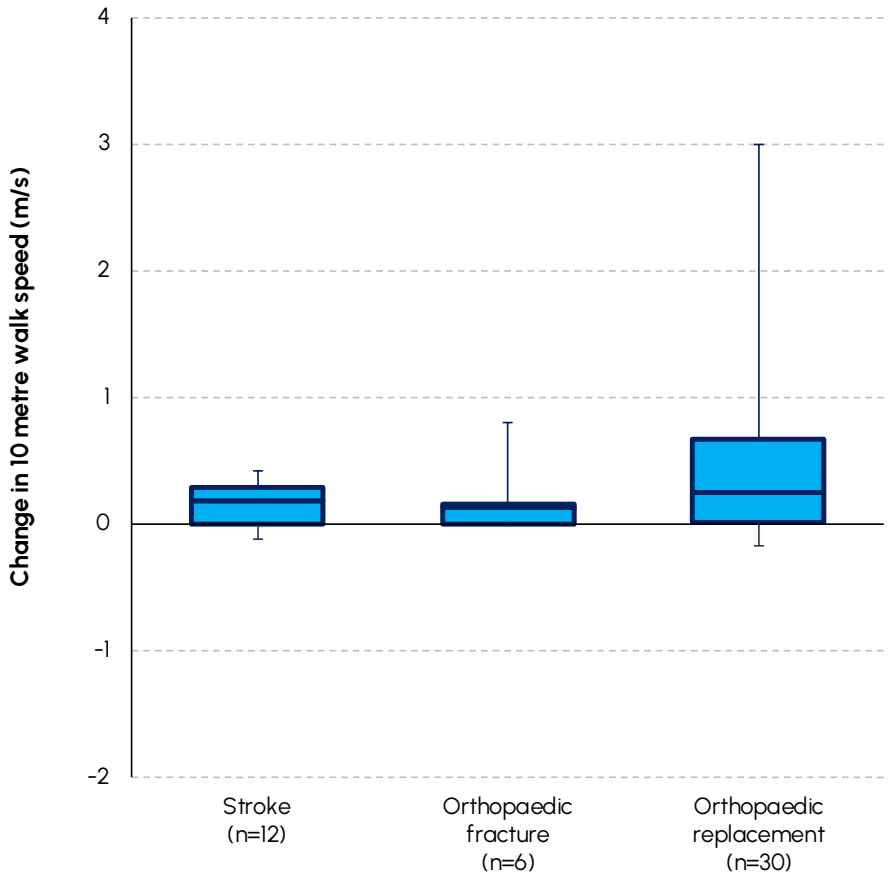
Note: Completed episodes only.

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

Change in 10 metre walk speed by impairment

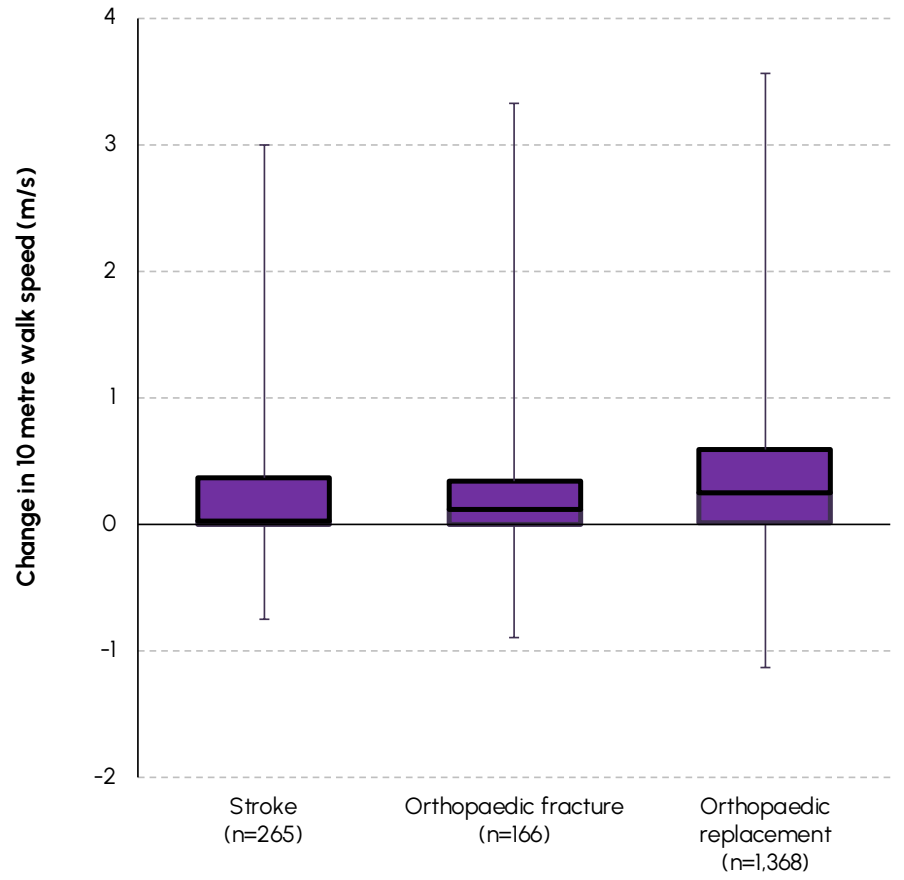


Your Service 2023



Note: Completed episodes only.

All Ambulatory 2023



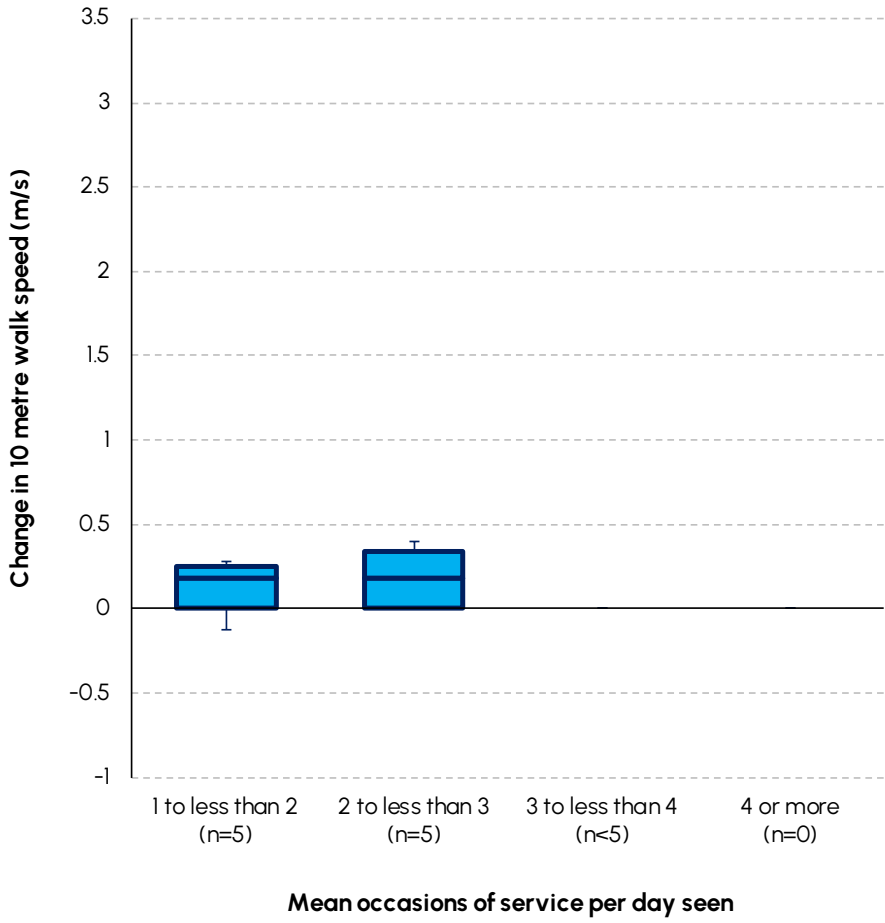
Note: Completed episodes only.

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

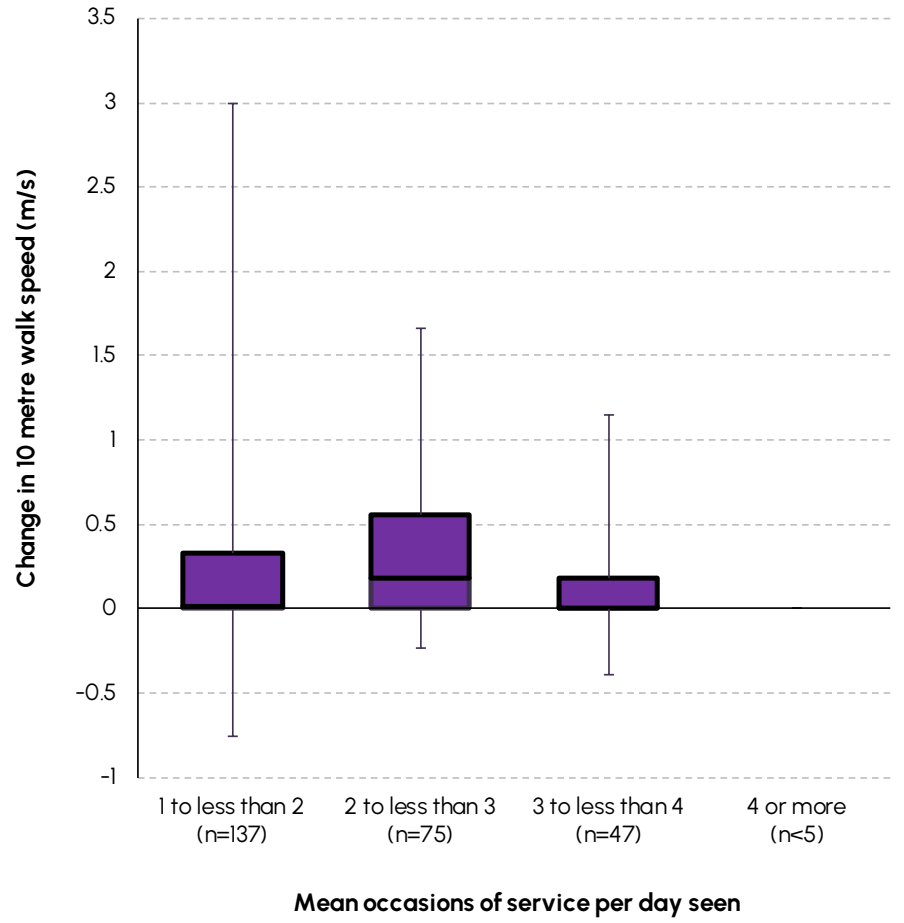
Change in 10 metre walk speed by OOS/day seen – Stroke



Your Service 2023



All Ambulatory 2023

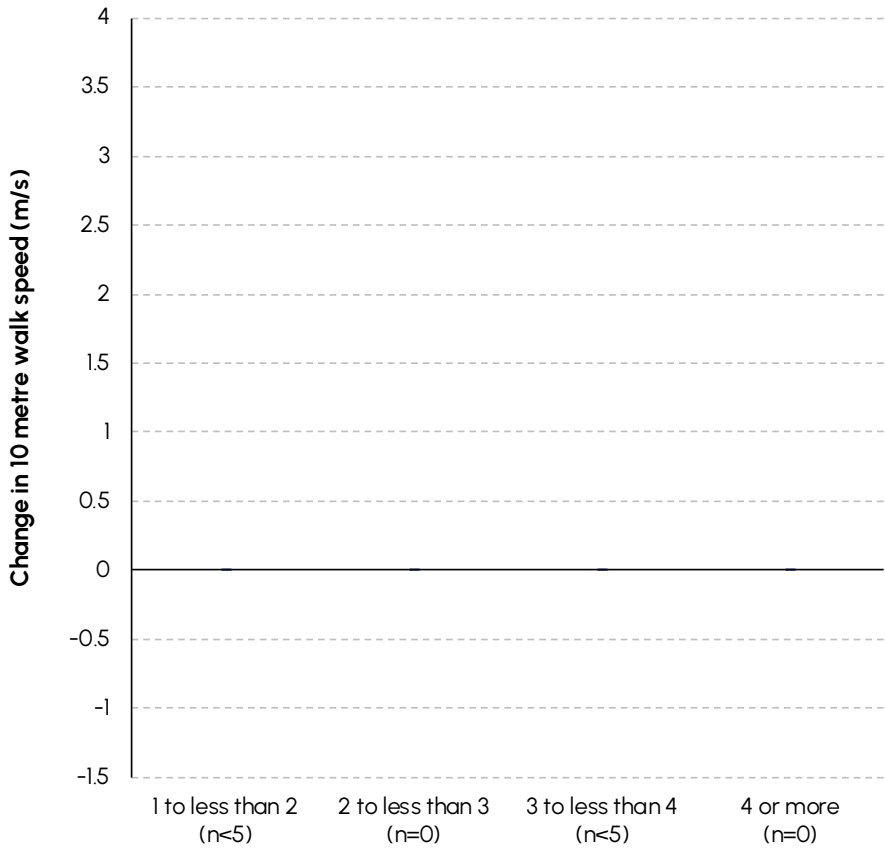


NOTE: To understand how to interpret these figures please refer to Appendix 3

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

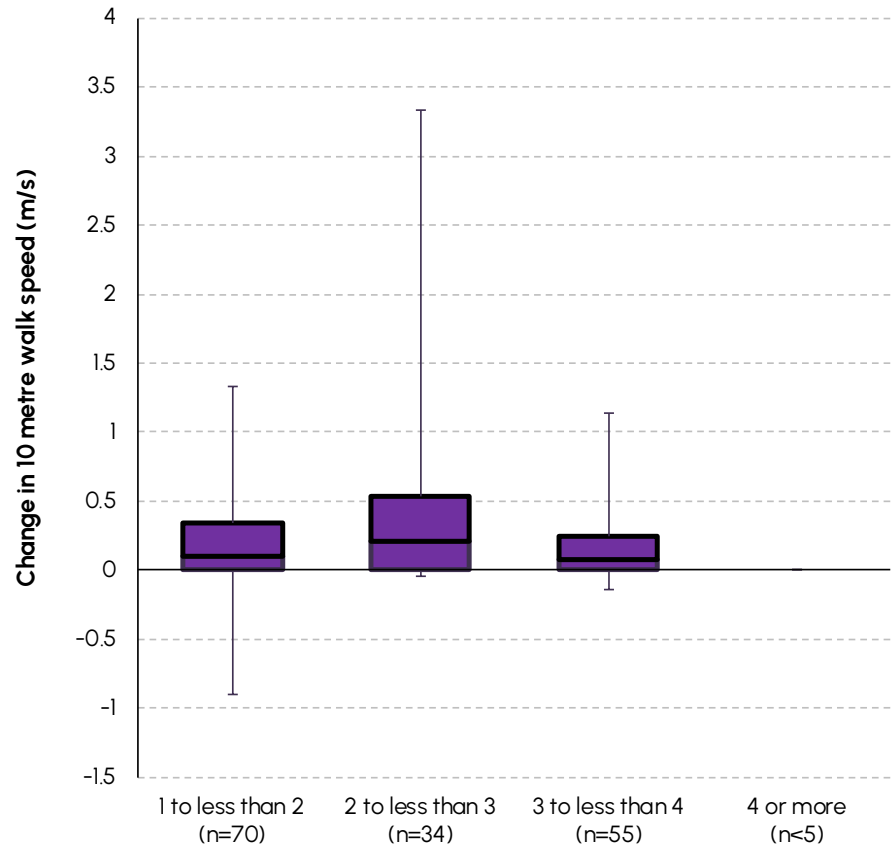


Your Service 2023



Mean occasions of service per day seen

All Ambulatory 2023



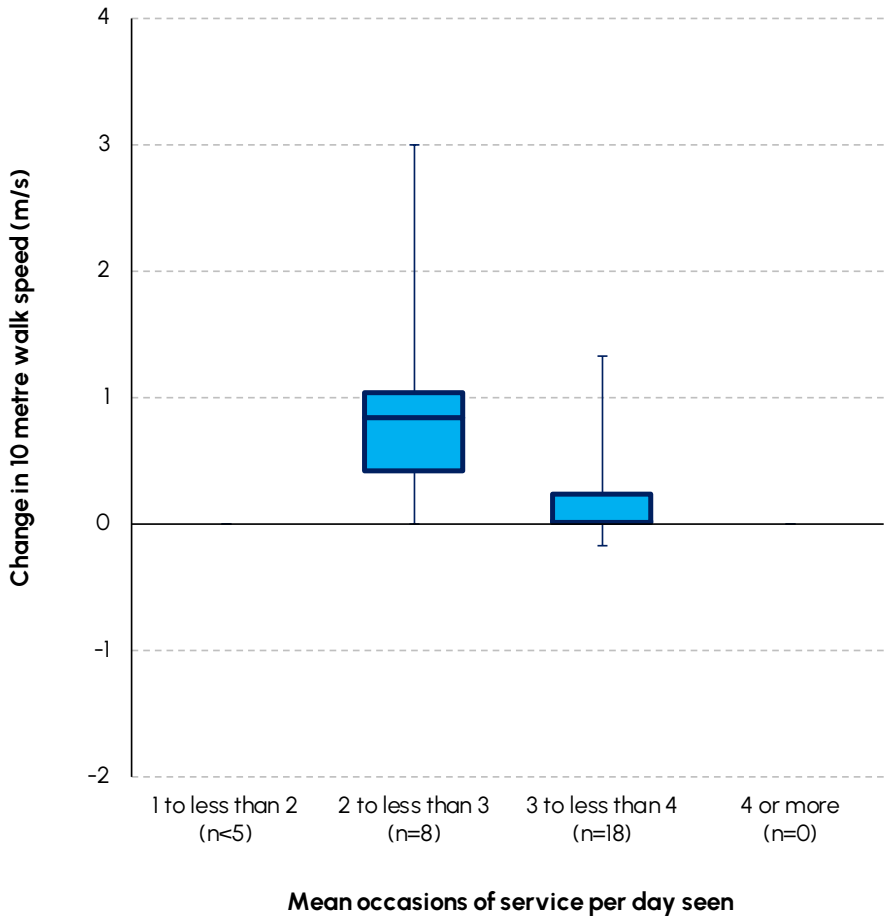
Mean occasions of service per day seen

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

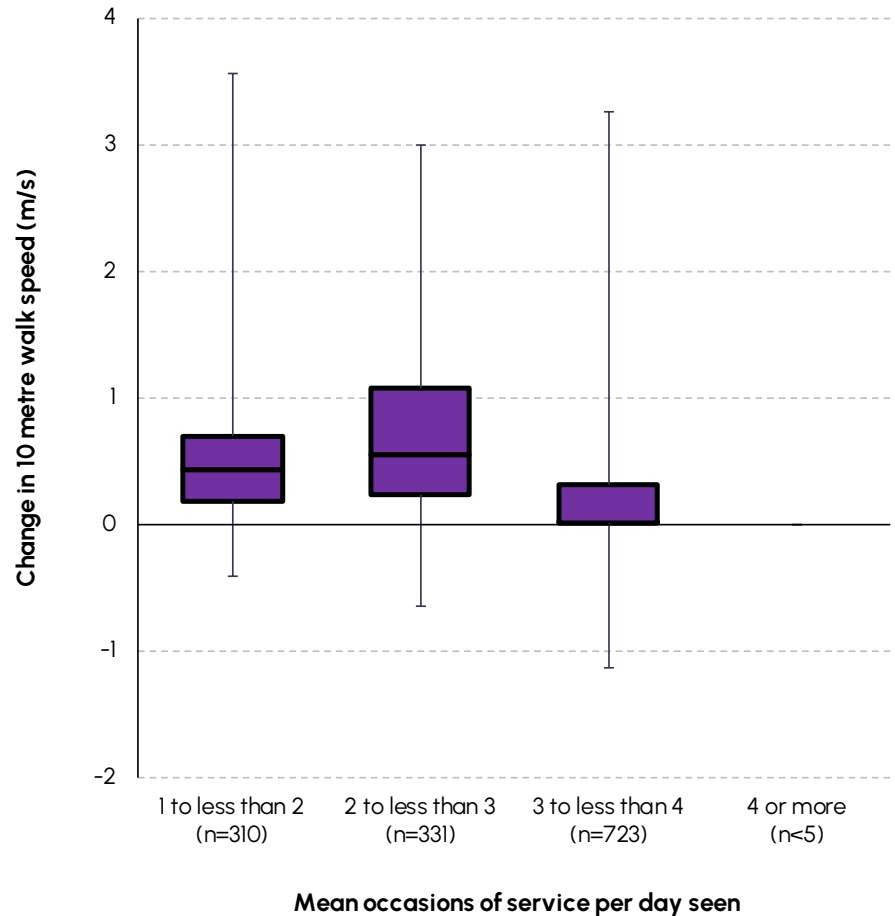
Change in 10 metre walk speed by OOS/day seen – Orthopaedic replacements



Your Service 2023



All Ambulatory 2023



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:

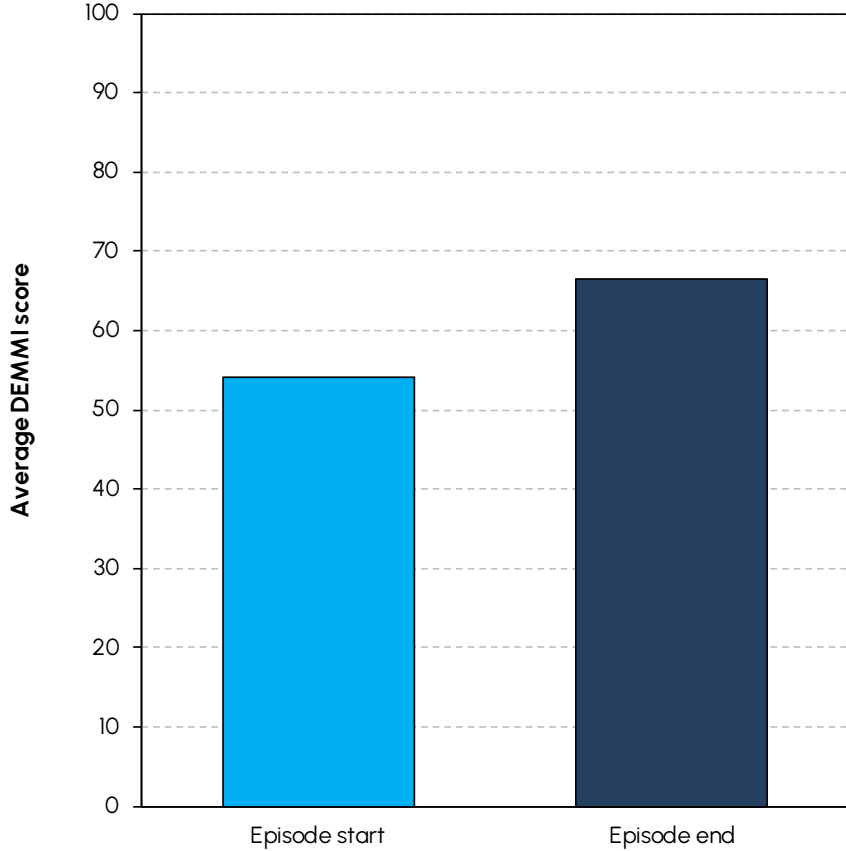
- 16.1 - Reconditioning following surgery
- 16.2 - Reconditioning following medical illness
- 16.3 - Cancer rehabilitation

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

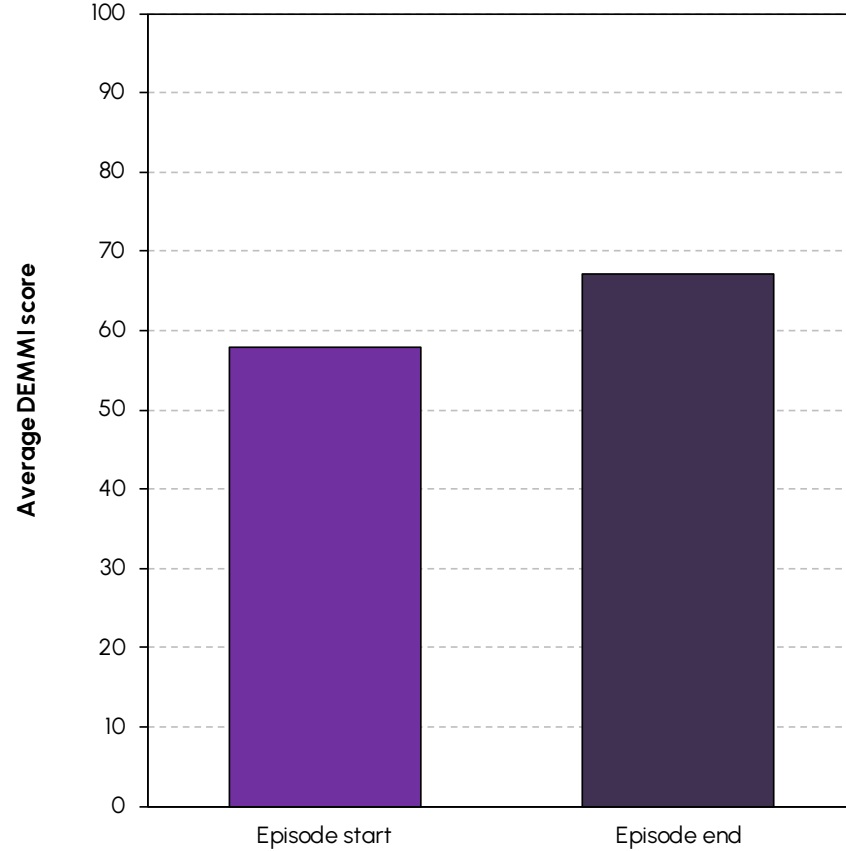
Average DEMMI start and end score



Your Service 2023 (n=9)



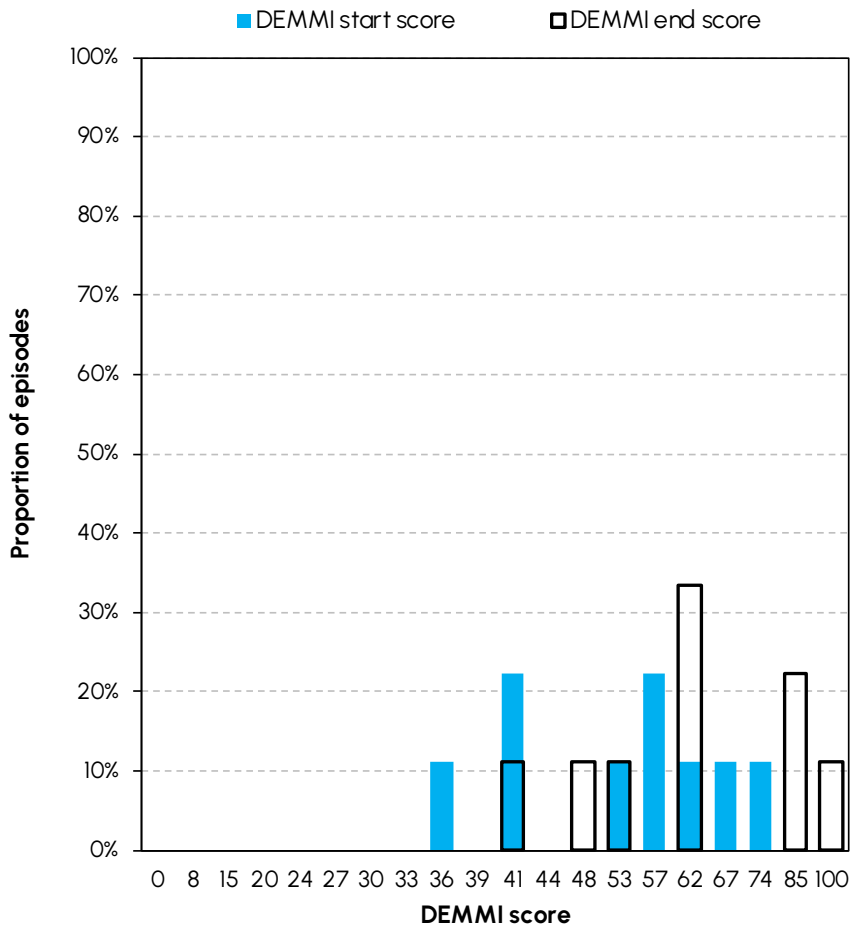
All Ambulatory 2023 (n=381)



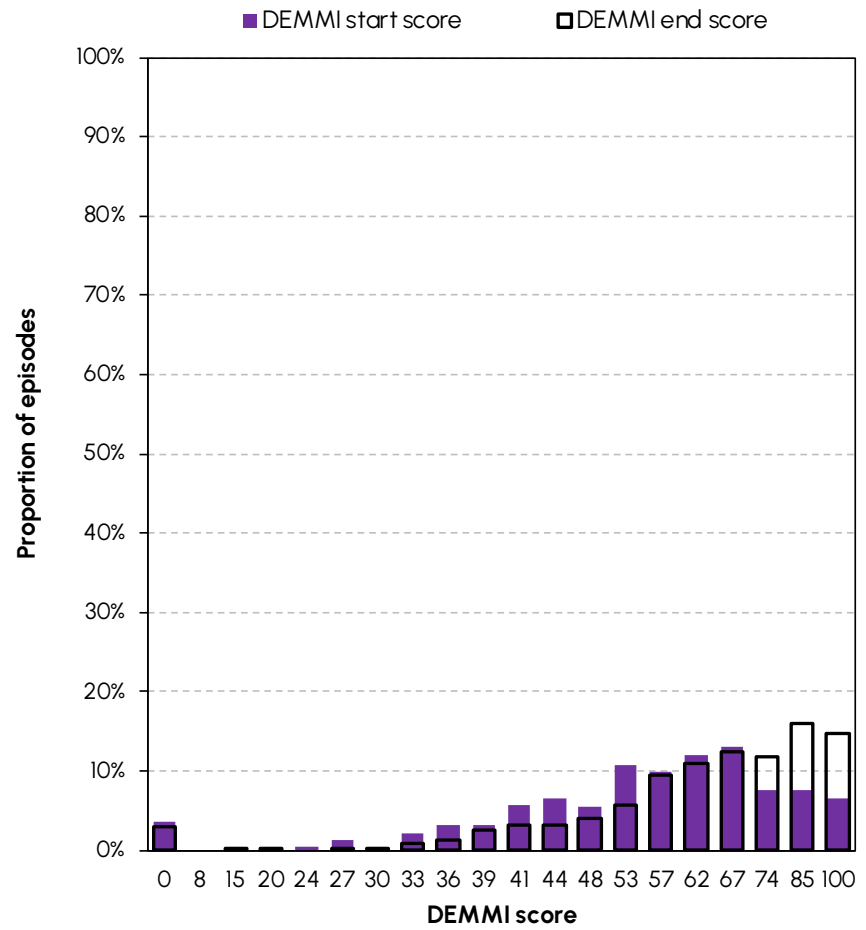
DEMMI start and end total – all episodes



Your Service 2023 (n=9)



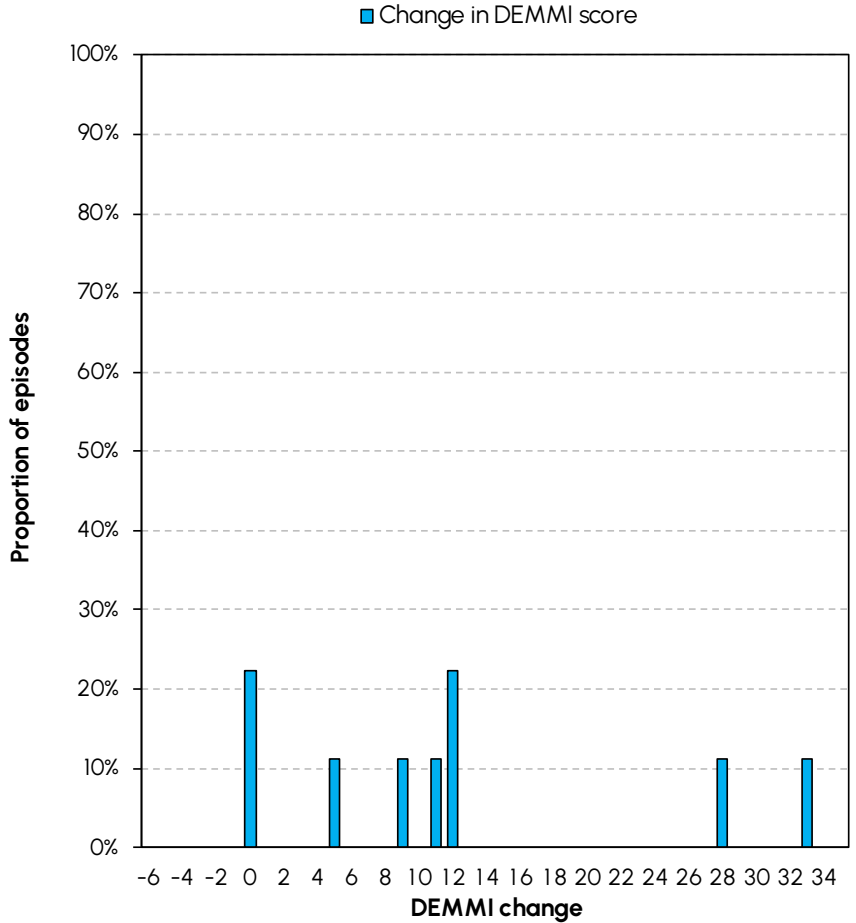
All Ambulatory 2023 (n=381)



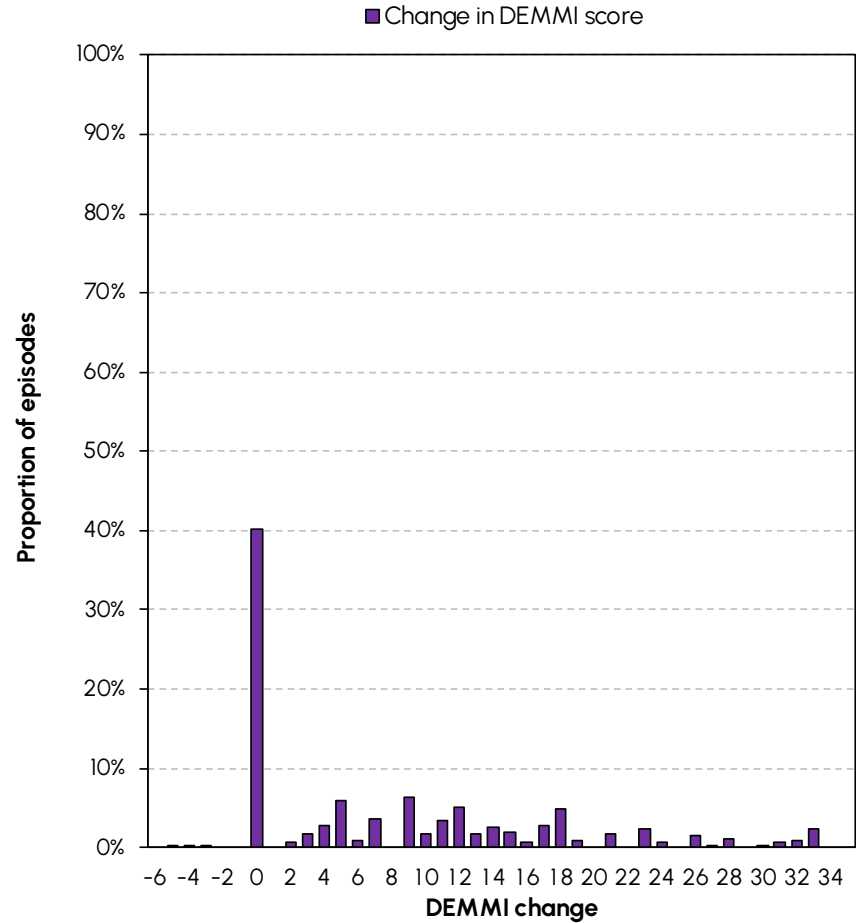
Change in DEMMI score – all episodes



Your Service 2023 (n=9)

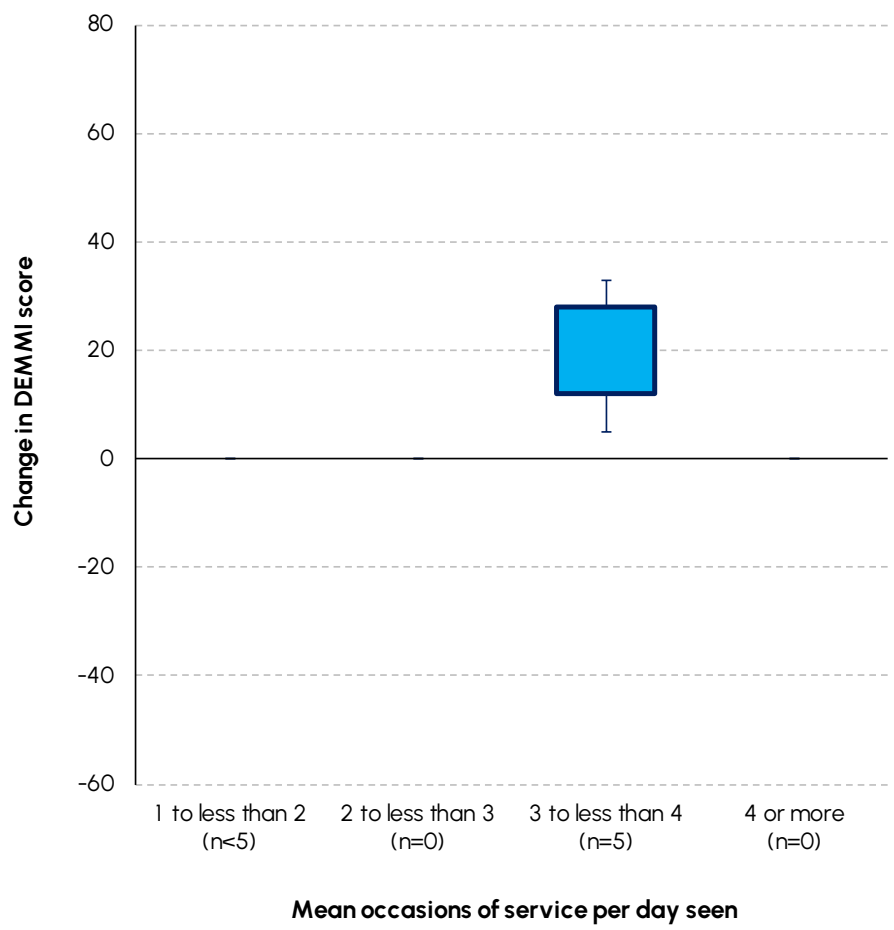


All Ambulatory 2023 (n=381)

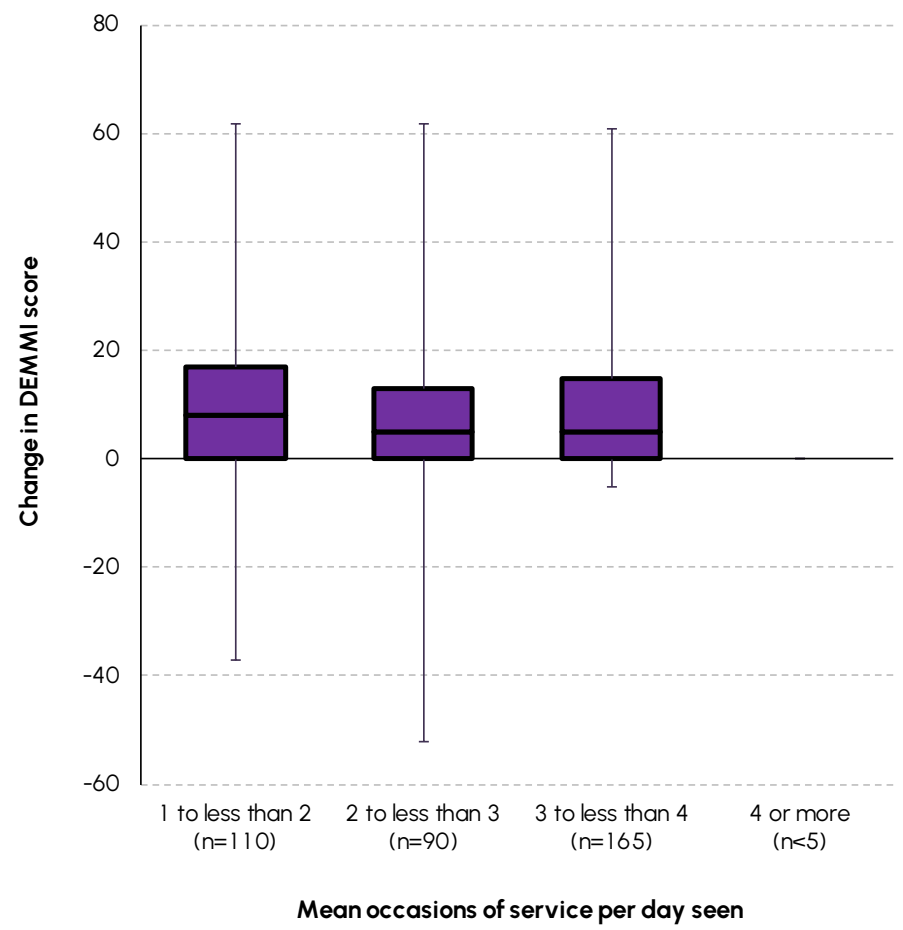


Change in DEMMI score by OOS/day seen – all episodes

Your Service 2023



All Ambulatory 2023

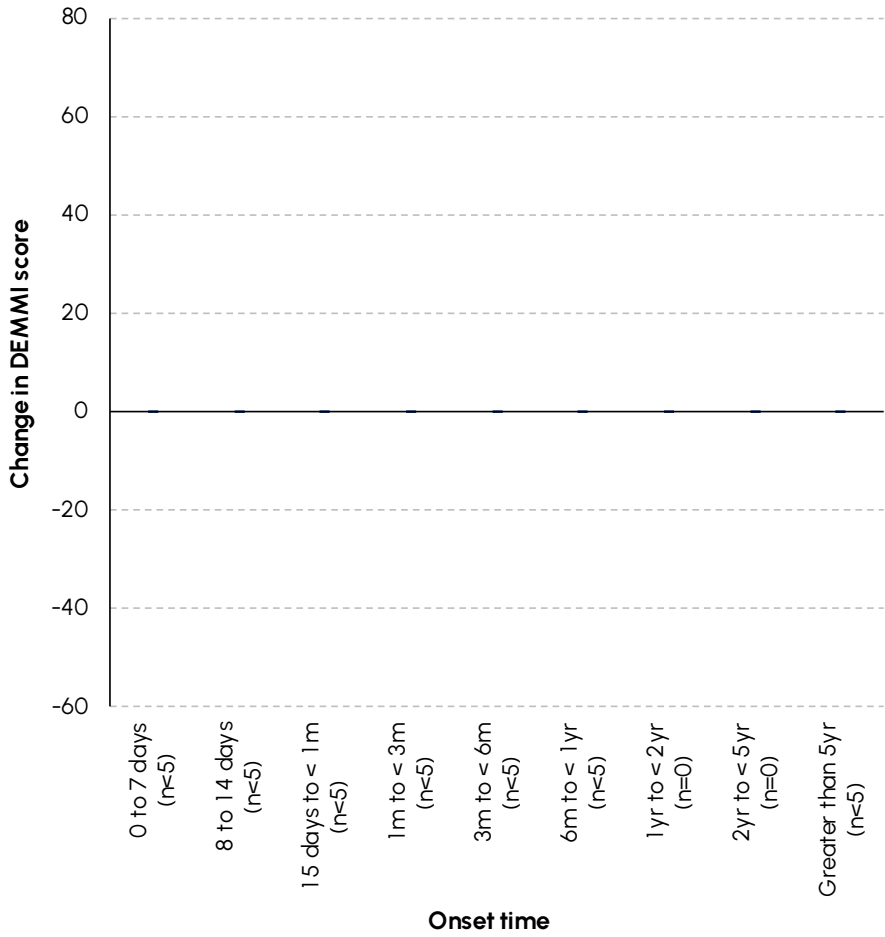


NOTE: To understand how to interpret these figures please refer to Appendix 3

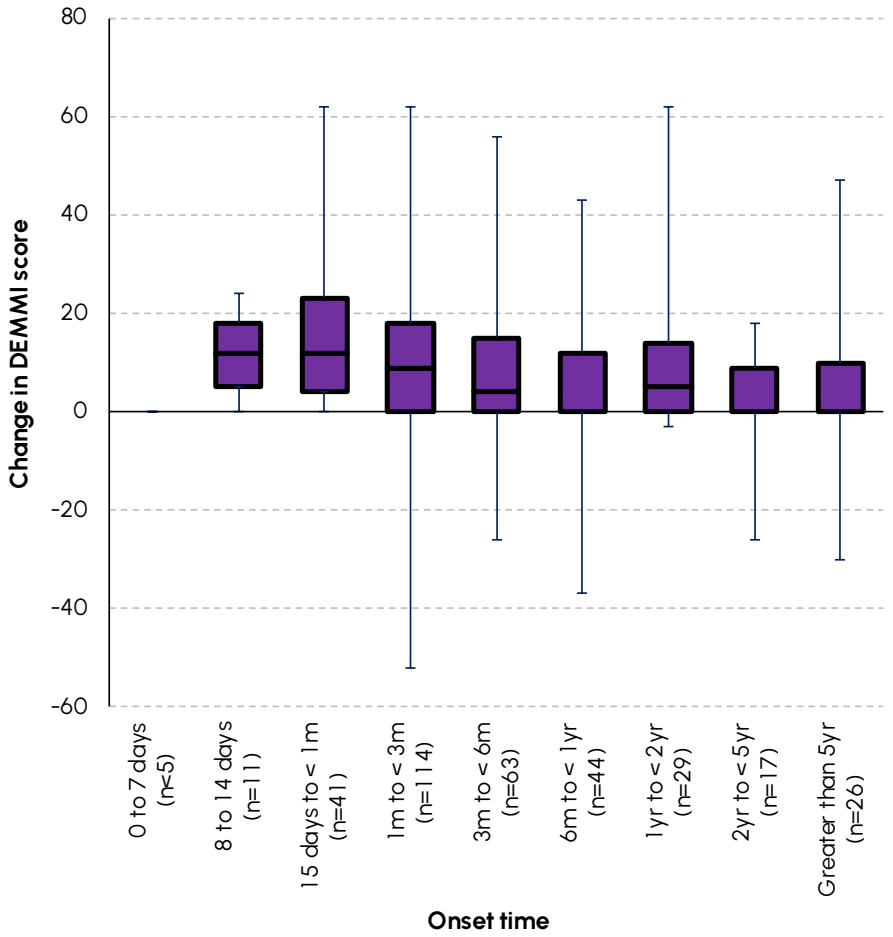
Change in DEMMI score by onset time – all episodes



Your Service 2023



All Ambulatory 2023



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

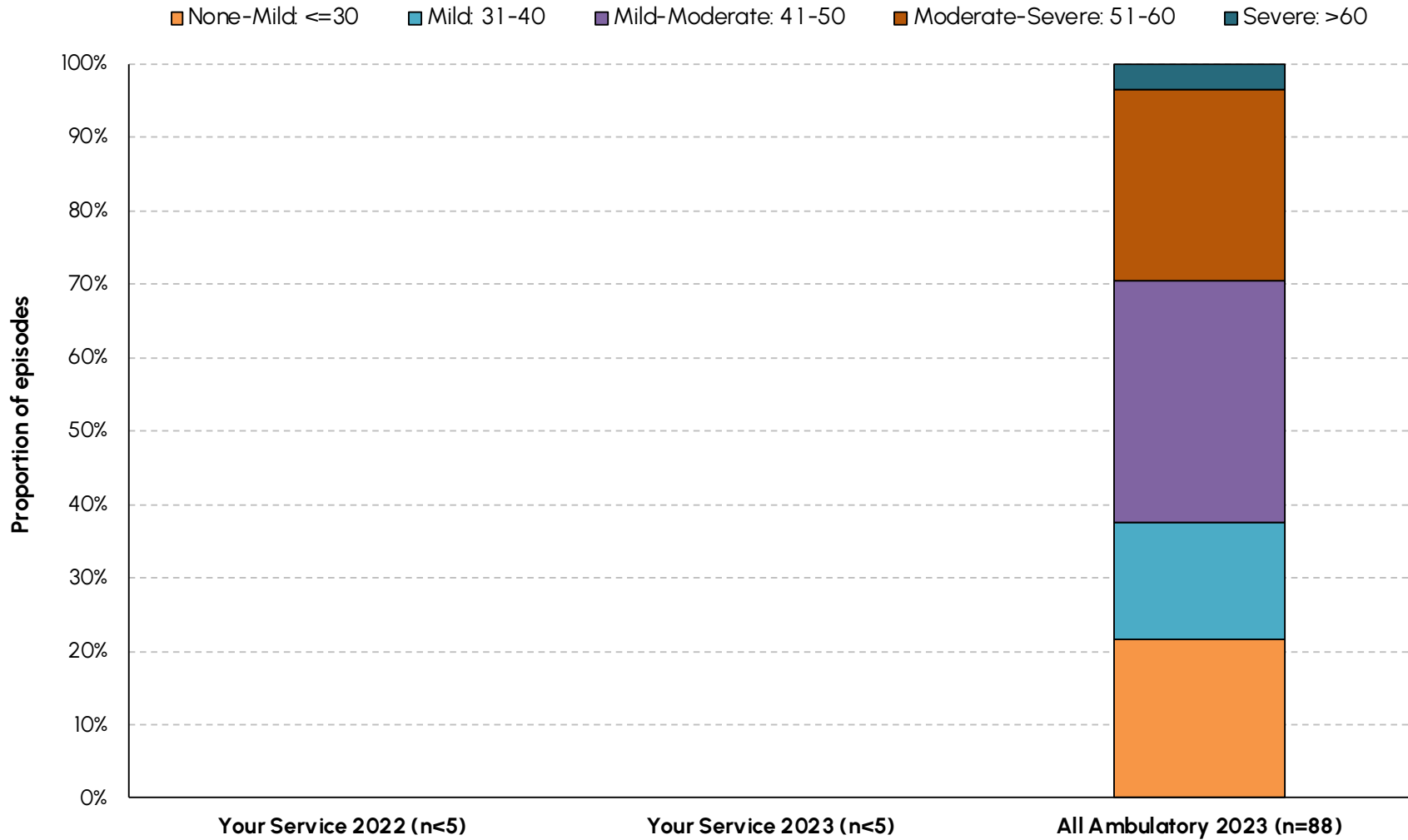
Mayo-Portland Adaptability Index-4 (MPAI-4)



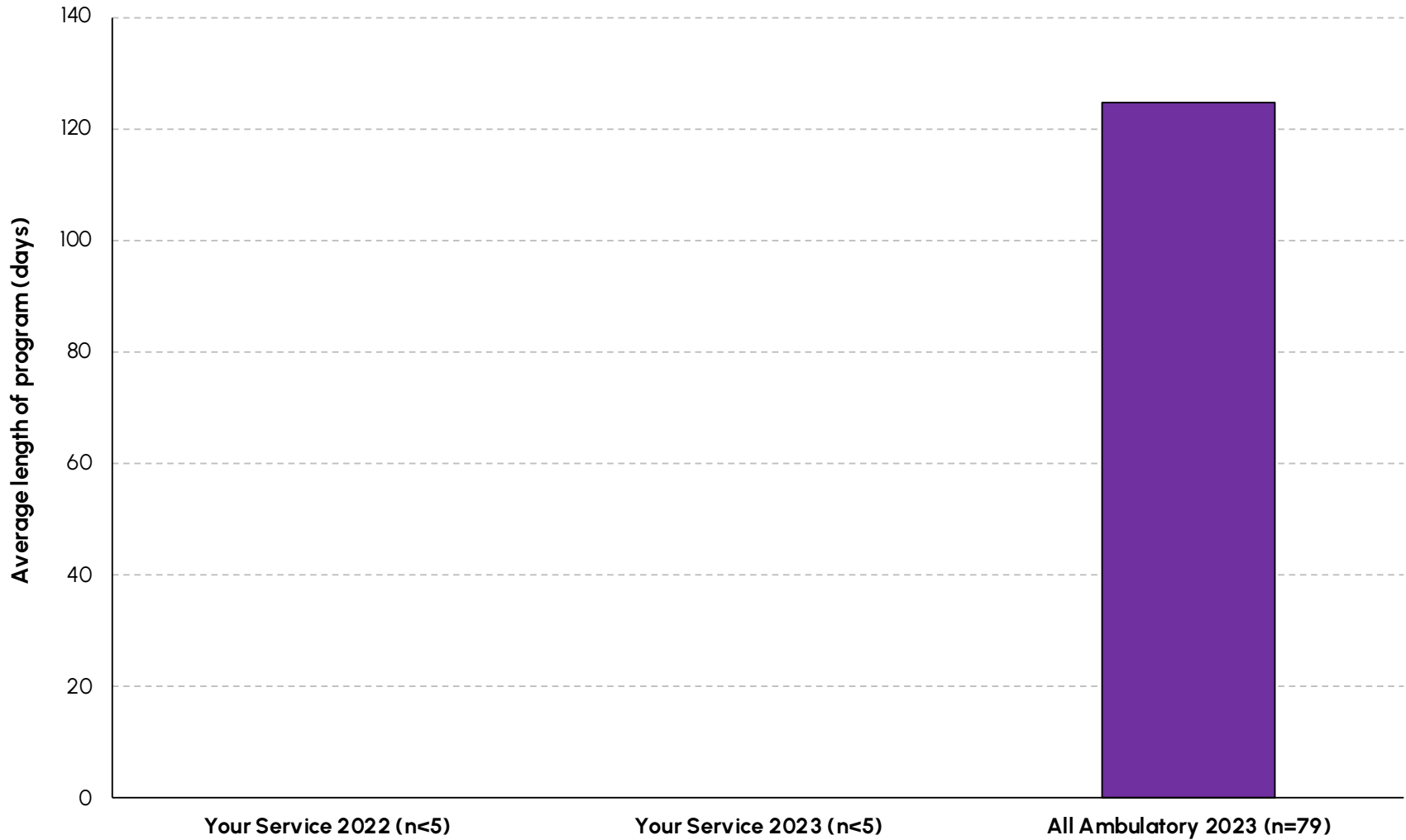
- This data item is collected in addition to the Australian Modified Lawton's IADL Scale for patients who may have functional impairment as a result of brain injury.
- The MPAI-4 was specifically designed for the evaluation of individuals during the post-acute period following ABI.
- The MPAI-4 consists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



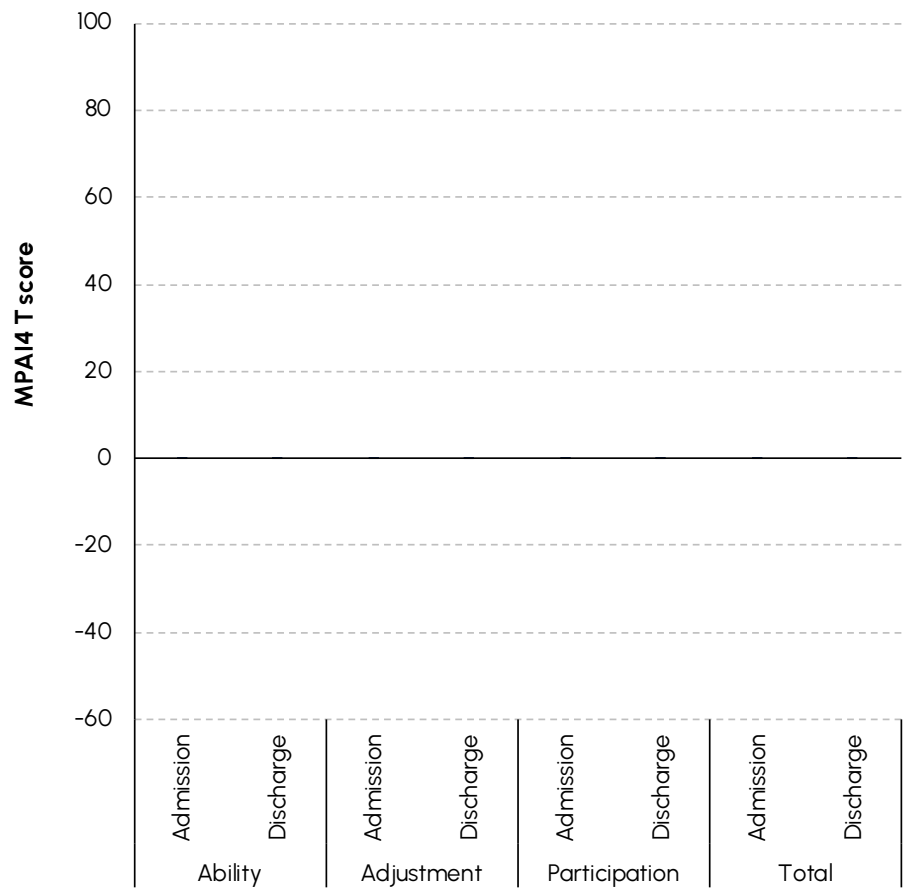
Average program length for episodes with submitted MPAI-4



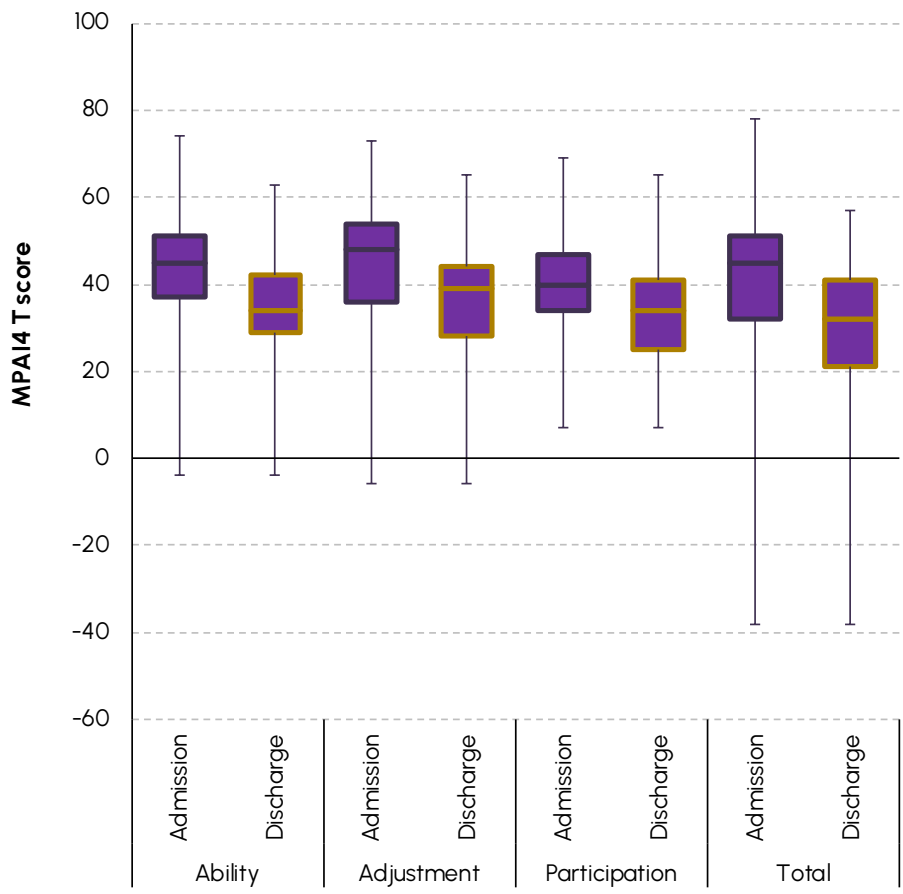
Admission and discharge T score distribution of spread by MPAI-4 index



Your Service 2023 (n<5)



All Ambulatory 2023 (n=79)

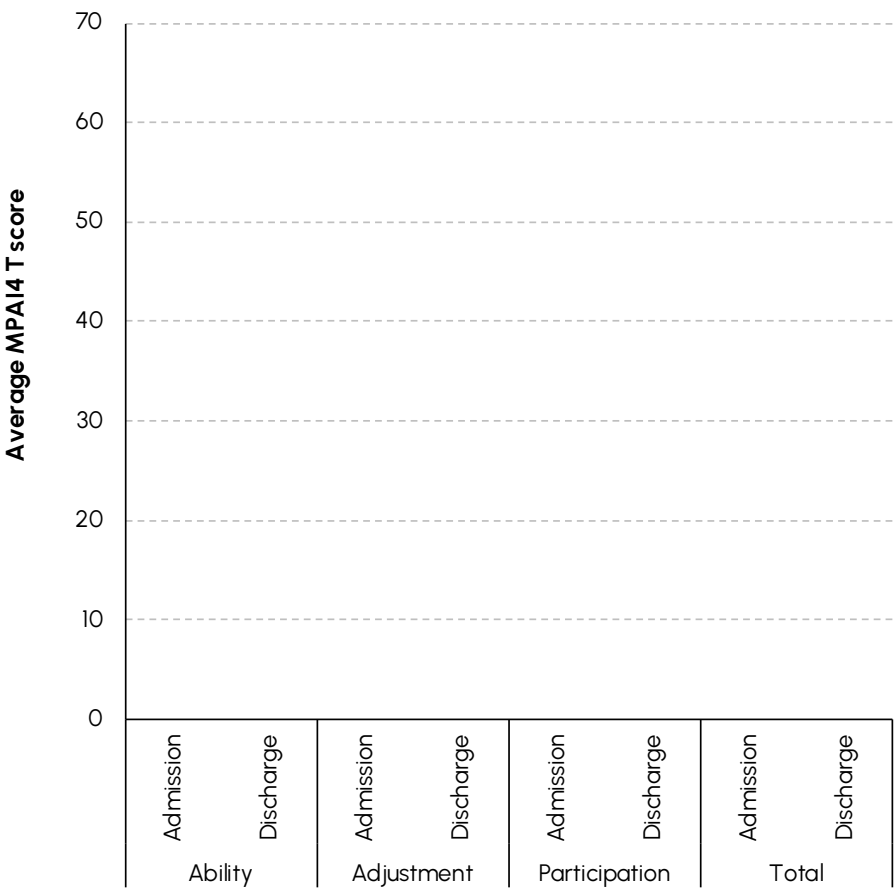


NOTE: To understand how to interpret these figures please refer to Appendix 3

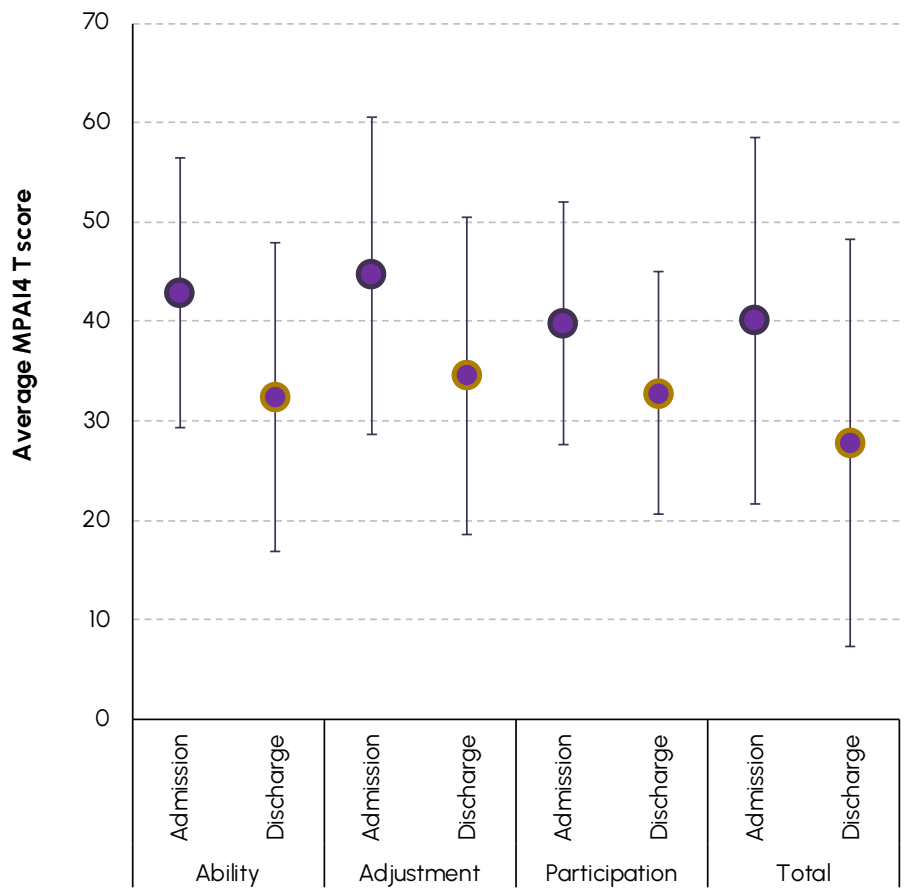
Admission and discharge average T score by MPAI-4 index



Your Service 2023 (n<5)



All Ambulatory 2023 (n=79)



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.

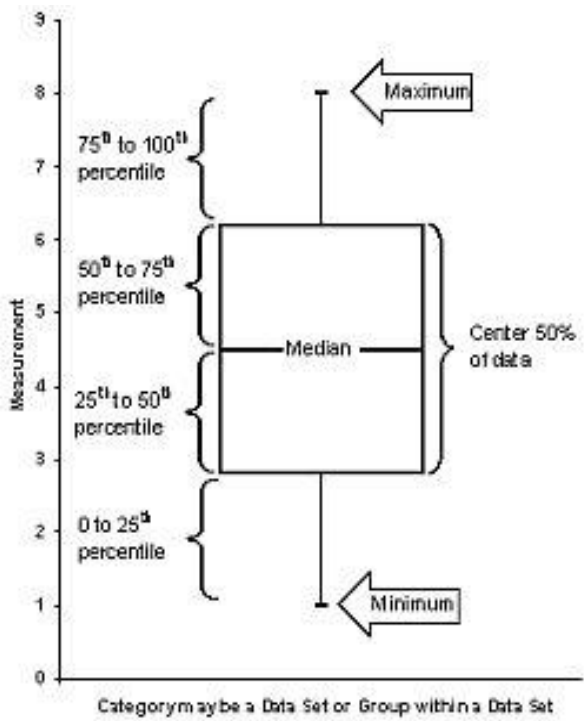
Valid Outcome Measure

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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