

# AROC Ambulatory Report

**July 2023 – June 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.

- 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](mailto: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 ( $\geq 5$ ), 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
<b>Month</b>	
July	23
August	18
September	24
October	23
November	19
December	24
January	14
February	10
March	28
April	13
May	26
June	10
<b>Full year</b>	<b>232</b>

# Completeness of data reported

AROC core data set items	Item collected	
	No.	%
Path	232	100.0
Facility code	232	100.0
Facility name	232	100.0
Ward code <sup>1</sup>	197	84.9
Ward name <sup>1</sup>	182	78.4
MRN	232	100.0
Letters of name	230	99.1
Date of birth	232	100.0
DOB estimate flag	231	99.6
Sex	232	100.0
Indigenous status	230	99.1
Geographical residence	232	100.0
Postcode	232	100.0
Episode begin date	232	100.0
Episode end date	232	100.0
Funding source	232	100.0
Health fund/other payer	120	100.0
NDIS	210	90.5
Referral date	231	99.6
Impairment code	232	100.0
Onset date &/or time since onset	229	98.7
Relevant inpatient episode date	227	97.8
Episode begin reason	231	99.6
First direct care episode	232	100.0
Interpreter required	232	100.0
Date of multi-disciplinary rehab plan	222	95.7
Accommodation prior to episode	232	100.0
Carer status prior to episode	231	100.0
Employment status prior to episode	228	98.3
Accommodation during episode	229	98.7
Carer status during episode	225	100.0
Existing comorbidity interfering with rehab	231	99.6
— Comorbidities identified	78	100.0

AROC core data set items	Item collected	
	No.	%
Cognitive impairment impacting rehab	231	99.6
Episode end reason	231	99.6
Final accommodation – episode end	225	99.6
Carer status – episode end	221	99.5
Employment status after discharge	62	26.7 ←
Return to pre-impairment activities	226	97.4
Days seen	226	97.4
Occasions of service	226	97.4
Disciplines involved in therapy	229	98.7
Lawton's start date	221	95.3
Lawton's start items	229	98.7
Lawton's end date	217	93.5
Lawton's end items	224	96.6
GAS start date <sup>1</sup>	3	1.3
GAS start scores <sup>1</sup>	11	4.7
GAS end date <sup>1</sup>	3	1.3
GAS end scores <sup>1</sup>	11	4.7
Impairment specific items		
Stroke	<b>54</b>	
— Rehab aimed at upper limb function	40	74.1 ←
— Rehab aimed at gait retraining	43	79.6 ←
— Rehab aimed at aphasia	39	72.2 ←
— ULMAS start date	12	92.3
— ULMAS start scores	12	92.3
— ULMAS end date	11	84.6 ←
— ULMAS end scores	11	84.6 ←
— Timed ten metre walk start date	12	63.2 ←
— Timed ten metre walk test on admission	12	63.2 ←
— Timed ten metre walk end date	12	63.2 ←
— Timed ten metre walk test on discharge	12	63.2 ←

AROC impairment specific items	Item collected	
	No.	%
Brain injury*	<b>8</b>	
— MPAI4 start date	7	87.5
— MPAI4 start scores	7	87.5
— MPAI4 end date	7	87.5
— MPAI4 end scores	7	87.5
Spinal cord injury*	<b>2</b>	
— Injury start level	2	100.0
Reconditioning	<b>25</b>	
— DEMMI start date	17	68.0 ←
— DEMMI start scores	18	72.0 ←
— DEMMI end date	14	56.0 ←
— DEMMI end scores	16	64.0 ←
Amputation of limb	<b>2</b>	
— Phase of care at episode start	2	100.0
— Phase of care during episode	2	100.0
— Phase of care at episode end	2	100.0
— Prosthetic device fitted	2	100.0
— Casting date <sup>2</sup>	1	100.0
— Date of first prosthetic fitting <sup>2</sup>	1	100.0
— Reason for delay in fitting <sup>2</sup>	0	0.0
— Timed up and go test	2	100.0
— Six min walk test <sup>1</sup>	2	100.0
— Ten metre walk test <sup>1</sup>	2	100.0
Orthopaedic conditions	<b>103</b>	
— Timed ten metre walk start date	80	77.7 ←
— Timed ten metre walk test on admission	69	67.0 ←
— Timed ten metre walk end date	80	80.0 ←
— Timed ten metre walk test on discharge	76	76.0 ←

\*Also includes MMT that contain this impairment

**Overall data completeness score 90.1**

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.

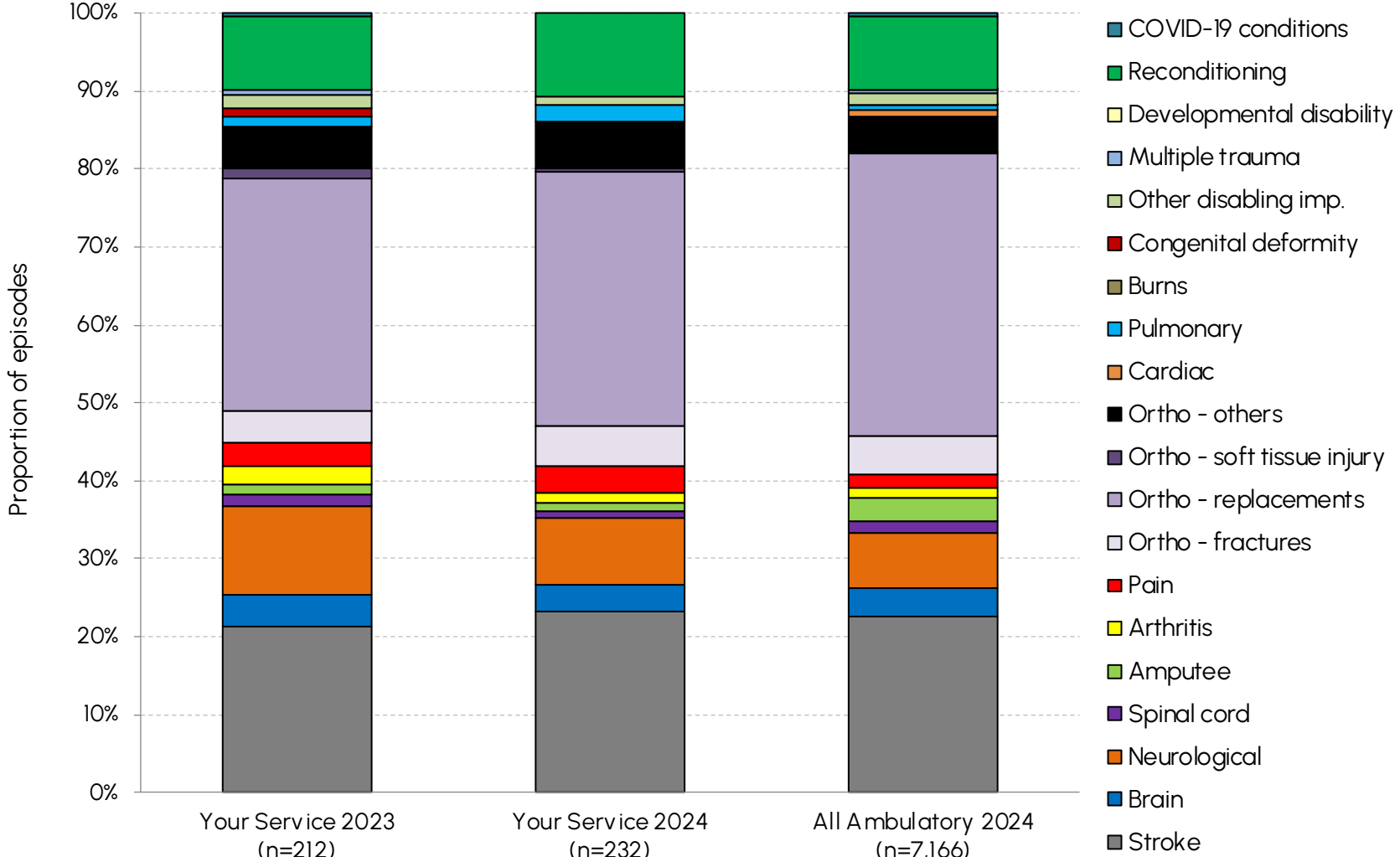
Such data are useful to provide context to the more detailed analysis of rehabilitation outcomes, but in themselves are not impacted by clinical practice.

# Distribution of services and episodes

	Public		Private		All Ambulatory	
	No.	%	No.	%	No.	%
<b>Facilities</b>						
New South Wales	4	12.5	10	31.3	14	43.8
Victoria	0	—	0	—	0	—
Queensland	2	6.3	3	9.4	5	15.6
South Australia	8	25.0	0	—	8	25.0
Western Australia	1	3.1	1	3.1	2	6.3
Tasmania	0	—	0	—	0	—
Australian territories	0	—	1	3.1	1	3.1
NZ	2	6.3			2	6.3
<b>Total</b>	<b>17</b>	<b>53.1</b>	<b>15</b>	<b>46.9</b>	<b>32</b>	<b>100.0</b>

<b>Episodes</b>						
New South Wales	367	5.1	2,567	35.7	2,934	40.8
Victoria	0	—	0	—	0	—
Queensland	592	8.2	438	6.1	1,030	14.3
South Australia	1,834	25.5	0	—	1,834	25.5
Western Australia	256	3.6	54	0.8	310	4.3
Tasmania	0	—	0	—	0	—
Australian territories	0	—	493	6.9	493	6.9
NZ	585	8.1			585	8.1
<b>Total</b>	<b>3,634</b>	<b>50.6</b>	<b>3,552</b>	<b>49.4</b>	<b>7,186</b>	<b>100.0</b>

# Episodes by impairment group



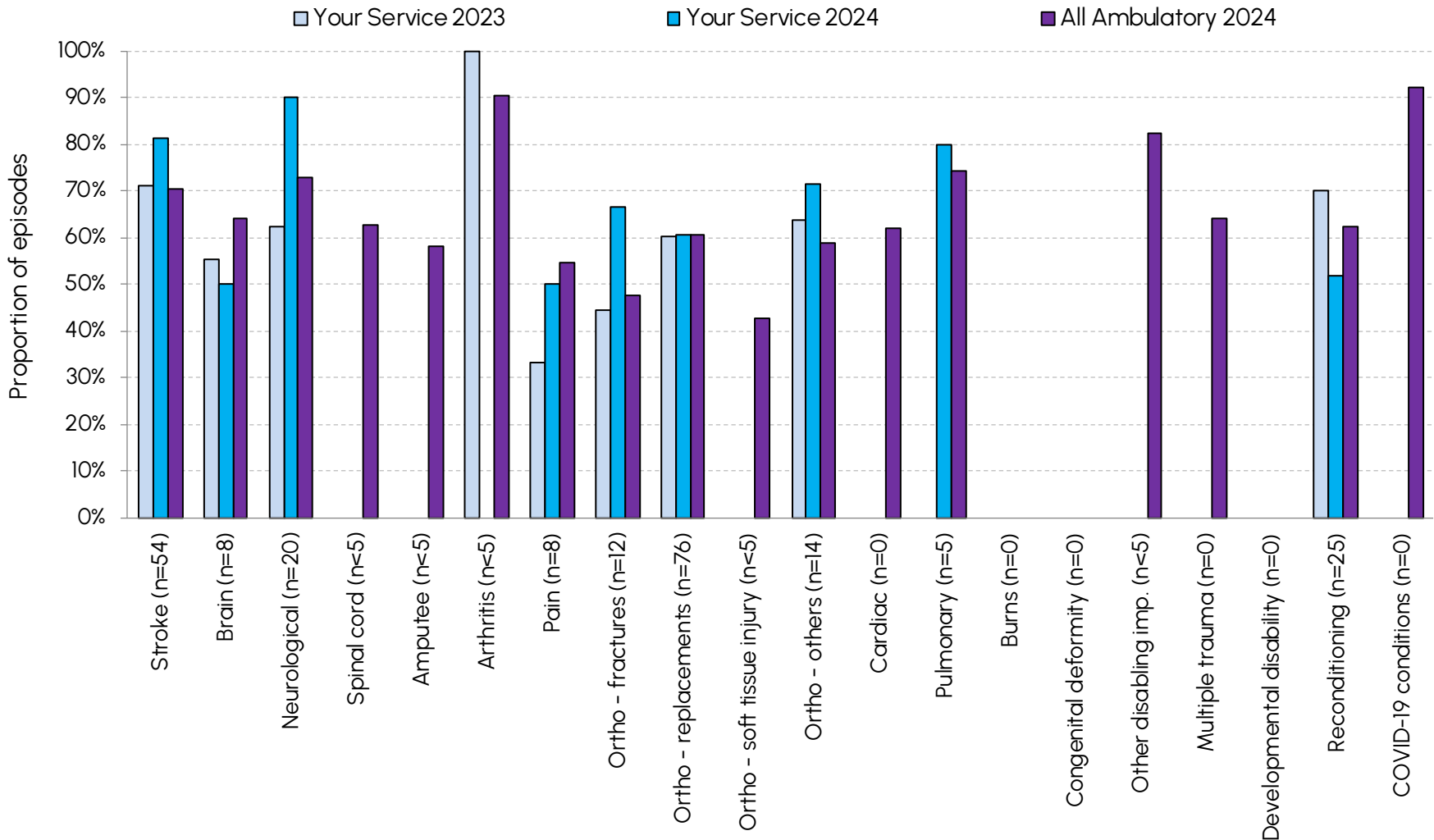
NOTE: For a full list of impairment codes please refer to Appendix 4

# Episodes by impairment group

Impairment group	Your Service 2023		Your Service 2024		All Ambulatory 2024	
	No.	%	No.	%	No.	%
Stroke	45	21.2	54	23.3	1,618	22.6
Brain	9	4.2	8	3.4	267	3.7
Neurological	24	11.3	20	8.6	505	7.0
Spinal cord	3	1.4	2	0.9	107	1.5
Amputee	3	1.4	2	0.9	208	2.9
Arthritis	5	2.4	3	1.3	96	1.3
Pain	6	2.8	8	3.4	124	1.7
Ortho - fractures	9	4.2	12	5.2	347	4.8
Ortho - replacements	63	29.7	76	32.8	2,602	36.3
Ortho - soft tissue injury	3	1.4	1	0.4	21	0.3
Ortho - others	11	5.2	14	6.0	320	4.5
Cardiac	0	—	0	—	58	0.8
Pulmonary	3	1.4	5	2.2	51	0.7
Burns	0	—	0	—	1	0.0
Congenital deformity	2	0.9	0	—	3	0.0
Other disabling imp.	4	1.9	2	0.9	109	1.5
Multiple trauma	1	0.5	0	—	28	0.4
Developmental disability	0	—	0	—	3	0.0
Reconditioning	20	9.4	25	10.8	672	9.4
COVID-19 conditions	1	0.5	0	—	26	0.4
Missing or excluded	0		0		20	
<b>All episodes</b>	<b>212</b>	<b>100.0</b>	<b>232</b>	<b>100.0</b>	<b>7,186</b>	<b>100.0</b>

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

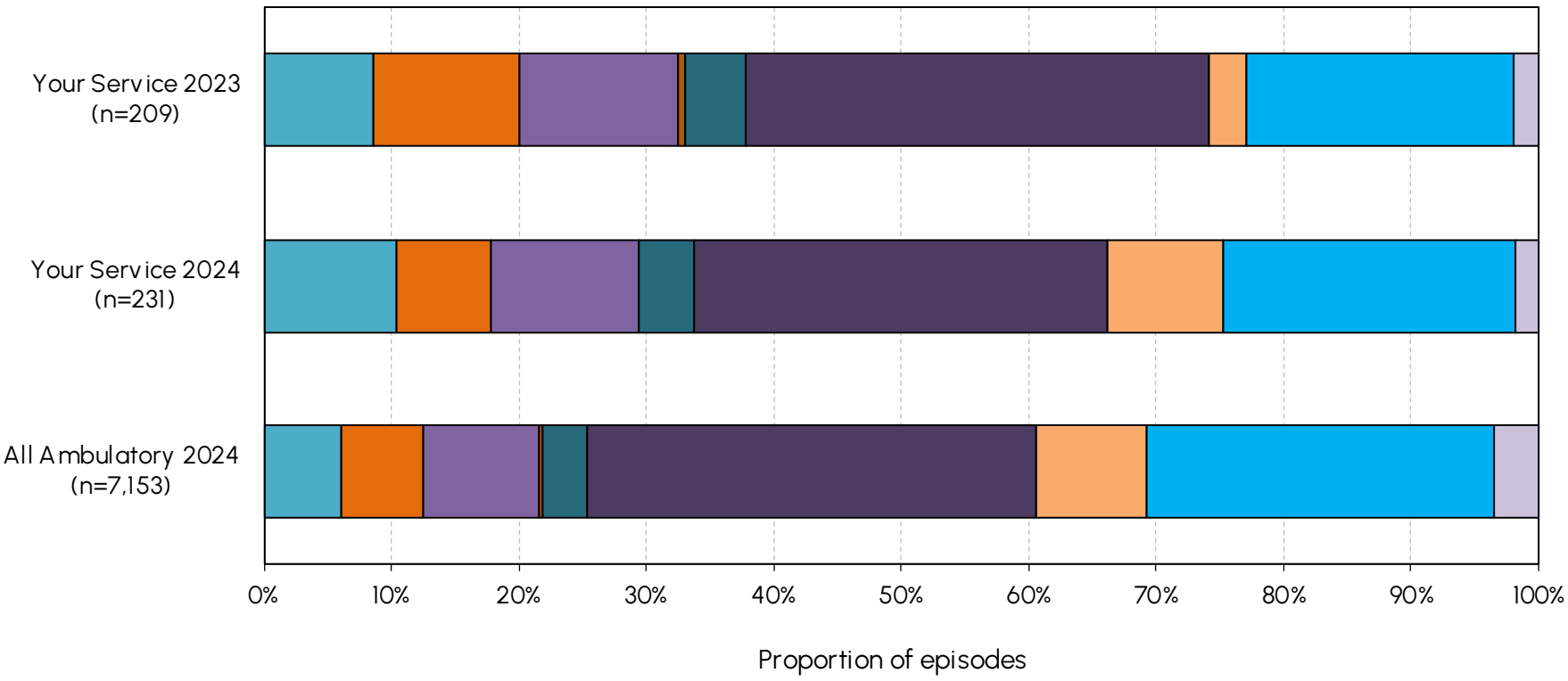
Impairment group	Your Service 2023				Your Service 2024				All Ambulatory 2024			
	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing	No.	Primary admission	Subsequent admission	Missing
Stroke	45	32	11	2	54	44	10	0	1,618	1,138	473	7
Brain	9	5	4	0	8	4	4	0	267	171	96	0
Neurological	24	15	9	0	20	18	2	0	505	368	137	0
Spinal cord	3	1	2	0	2	1	1	0	107	67	40	0
Amputee	3	2	1	0	2	1	1	0	208	121	86	1
Arthritis	5	5	0	0	3	3	0	0	96	87	9	0
Pain	6	2	4	0	8	4	4	0	124	68	56	0
Ortho - fractures	9	4	5	0	12	8	4	0	347	165	182	0
Ortho - replacements	63	38	25	0	76	46	30	0	2,602	1,578	1,024	0
Ortho - soft tissue injury	3	3	0	0	1	1	0	0	21	9	12	0
Ortho - others	11	7	4	0	14	10	4	0	320	189	131	0
Cardiac	0	0	0	0	0	0	0	0	58	36	22	0
Pulmonary	3	3	0	0	5	4	1	0	51	38	13	0
Burns	0	0	0	0	0	0	0	0	1	1	0	0
Congenital deformity	2	0	2	0	0	0	0	0	3	3	0	0
Other disabling imp.	4	4	0	0	2	1	1	0	109	90	19	0
Multiple trauma	1	0	1	0	0	0	0	0	28	18	10	0
Developmental disability	0	0	0	0	0	0	0	0	3	3	0	0
Reconditioning	20	14	6	0	25	13	12	0	672	420	250	2
COVID-19 conditions	1	1	0	0	0	0	0	0	26	24	1	1
Missing or excluded	0				0				20			
<b>All episodes</b>	<b>212</b>	<b>136</b>	<b>74</b>	<b>2</b>	<b>232</b>	<b>158</b>	<b>74</b>	<b>0</b>	<b>7,186</b>	<b>4,594</b>	<b>2,561</b>	<b>11</b>



# Episode source



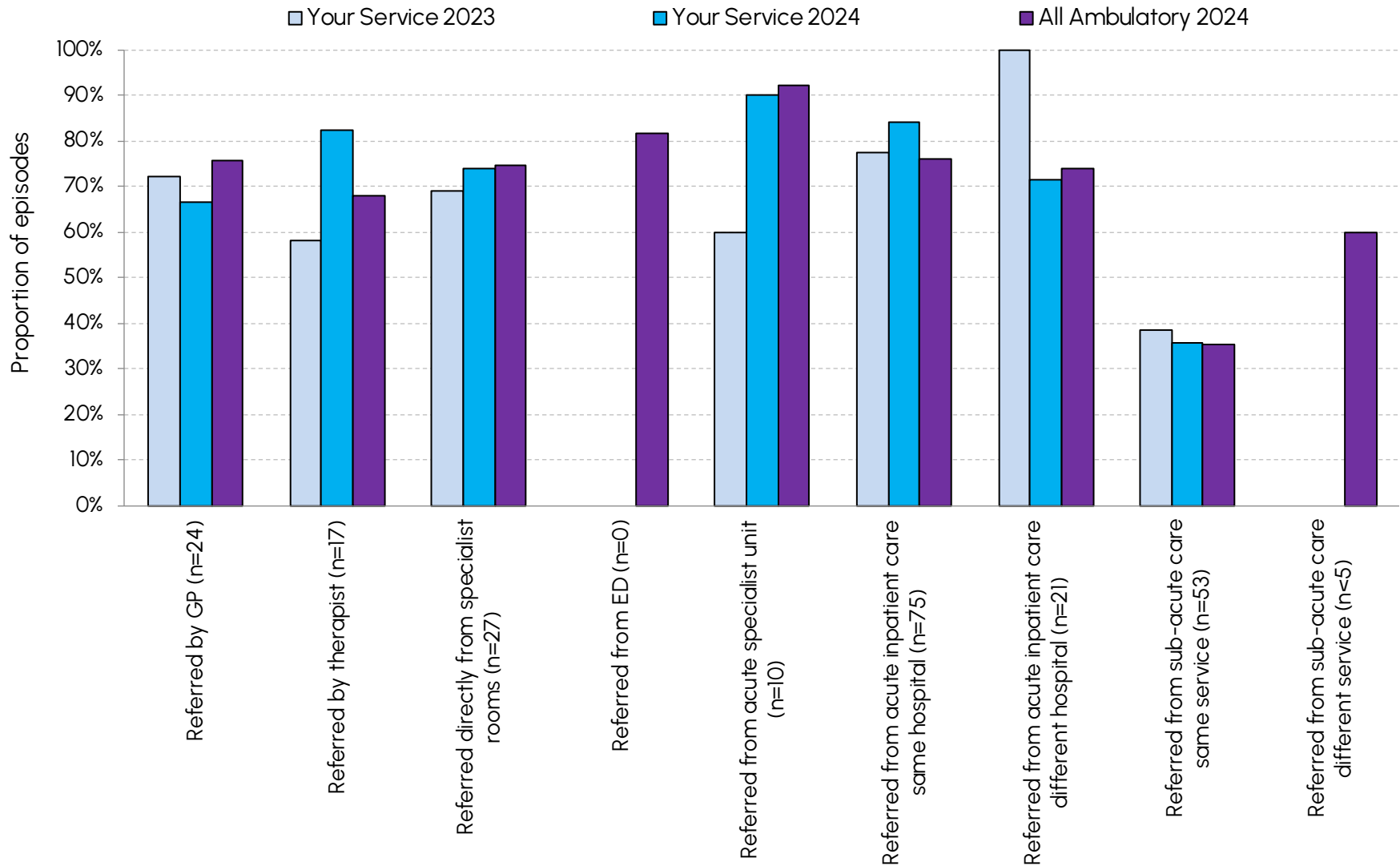
- Referred by GP
- Referred by therapist
- Referred directly from specialist rooms
- Referred from ED
- Referred from acute specialist unit
- Referred from acute inpatient care same hospital
- Referred from acute inpatient care different hospital
- Referred from sub-acute care same service
- Referred 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	18	8.6	24	10.4	438	6.1
Referred by therapist	24	11.5	17	7.4	457	6.4
Referred directly from specialist rooms	26	12.4	27	11.7	651	9.1
Referred from ED	1	0.5	0	—	22	0.3
Referred from acute specialist unit	10	4.8	10	4.3	245	3.4
Referred from acute inpatient care same hospital	76	36.4	75	32.5	2,518	35.2
Referred from acute inpatient care different hospital	6	2.9	21	9.1	627	8.8
Referred from sub-acute care same service	44	21.1	53	22.9	1,951	27.3
Referred from sub-acute care different service	4	1.9	4	1.7	244	3.4
Missing	3		1		33	
<b>All episodes</b>	<b>212</b>	<b>100</b>	<b>232</b>	<b>100</b>	<b>7,186</b>	<b>100</b>

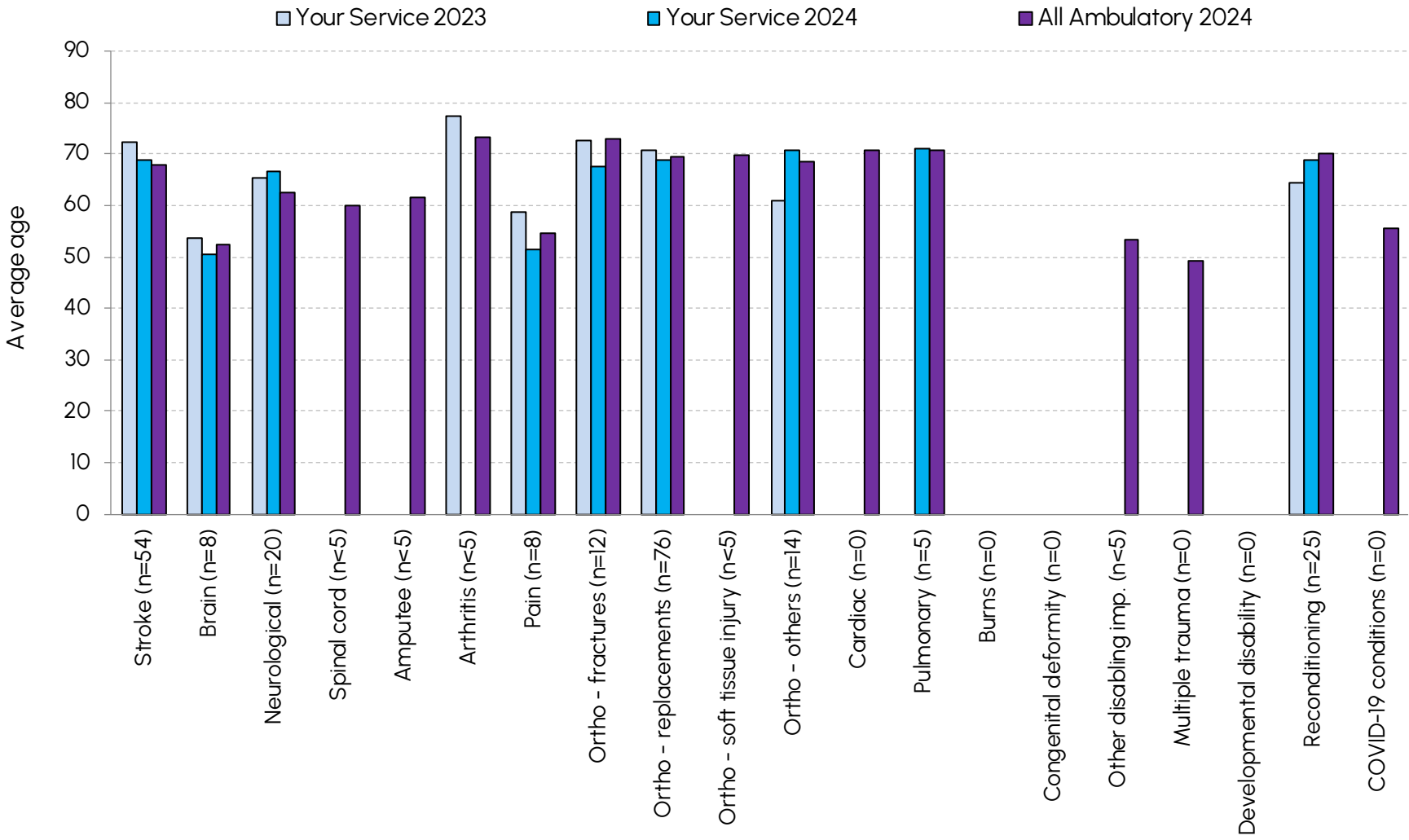
# First direct care rehabilitation episode by episode source



# 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	18	13	5	0	24	16	8	0	438	332	104	2
Referred by therapist	24	14	10	0	17	14	3	0	457	311	146	0
Referred directly from specialist rooms	26	18	8	0	27	20	7	0	651	487	163	1
Referred from ED	1	1	0	0	0	0	0	0	22	18	4	0
Referred from acute specialist unit	10	6	4	0	10	9	1	0	245	226	19	0
Referred from acute inpatient care same hospital	76	59	17	0	75	63	12	0	2,518	1,917	599	2
Referred from acute inpatient care different hospital	6	6	0	0	21	15	6	0	627	465	161	1
Referred from sub-acute care same service	44	17	27	0	53	19	34	0	1,951	687	1,263	1
Referred from sub-acute care different service	4	1	3	0	4	1	3	0	244	146	98	0
Missing	3	1	0	2	1	1	0	0	33	14	8	11
<b>All episodes</b>	<b>212</b>	<b>136</b>	<b>74</b>	<b>2</b>	<b>232</b>	<b>158</b>	<b>74</b>	<b>0</b>	<b>7,186</b>	<b>4,603</b>	<b>2,565</b>	<b>18</b>

# 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	45	72.2	(68.0 – 76.5)	54	68.7	(64.9 – 72.5)	1,609	67.8	(67.1 – 68.5)
Brain	9	53.7	(43.5 – 63.8)	8	50.5	(37.1 – 63.9)	266	52.4	(50.3 – 54.6)
Neurological	23	65.3	(59.5 – 71.2)	20	66.5	(60.0 – 72.9)	504	62.4	(61.0 – 63.9)
Spinal cord	3	68.7	(62.9 – 74.5)	2	62.5	(34.1 – 90.9)	106	59.9	(56.8 – 63.0)
Amputee	3	62.7	(56.2 – 69.1)	2	55.0	(35.4 – 74.6)	208	61.6	(59.9 – 63.2)
Arthritis	5	77.4	(69.1 – 85.7)	3	81.0	(78.0 – 84.0)	96	73.3	(71.1 – 75.5)
Pain	6	58.7	(46.9 – 70.5)	8	51.5	(37.2 – 65.8)	124	54.6	(51.4 – 57.8)
Ortho - fractures	9	72.7	(62.0 – 83.3)	12	67.5	(57.8 – 77.2)	345	72.8	(71.2 – 74.3)
Ortho - replacements	63	70.6	(68.4 – 72.8)	76	68.9	(66.5 – 71.3)	2,601	69.6	(69.2 – 70.0)
Ortho - soft tissue injury	3	63.7	(42.2 – 85.1)	1	80.0		21	69.9	(60.5 – 79.3)
Ortho - others	11	60.8	(54.7 – 66.9)	14	70.7	(65.2 – 76.2)	320	68.5	(66.9 – 70.0)
Cardiac	0	—		0	—		58	70.6	(67.2 – 73.9)
Pulmonary	3	61.3	(51.7 – 71.0)	5	71.0	(62.0 – 80.0)	51	70.7	(67.2 – 74.1)
Burns	0	—		0	—		1	—	
Congenital deformity	2	69.0	(59.2 – 78.8)	0	—		3	—	
Other disabling imp.	4	52.5	(31.8 – 73.2)	2	64.0	(30.7 – 97.3)	109	53.4	(49.9 – 56.9)
Multiple trauma	1	21.0		0	—		28	49.3	(41.5 – 57.1)
Developmental disability	0	—		0	—		3	—	
Reconditioning	20	64.5	(56.1 – 72.8)	25	68.9	(62.3 – 75.5)	672	70.0	(68.9 – 71.2)
COVID-19 conditions	1	32.0		0	—		26	55.5	(48.0 – 63.0)
Missing or excluded	2			0			61		
<b>All episodes</b>	<b>212</b>	<b>67.3</b>	<b>(65.4 – 69.3)</b>	<b>232</b>	<b>67.5</b>	<b>(65.6 – 69.3)</b>	<b>7,186</b>	<b>67.2</b>	<b>(66.9 – 67.5)</b>

# 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	8	4.1	7	3.3	256	3.9
Accepted - waiting	0	—	1	0.5	54	0.8
Awaiting eligibility determination	4	2.0	6	2.9	211	3.2
Eligible - hasn't applied	7	3.6	7	3.3	212	3.2
Eligible - NDIS not yet available in the region	0	—	1	0.5	9	0.1
Not eligible / not relevant	178	90.4	188	89.5	5,825	88.7
Missing	15		22		34	
<b>All episodes (AU)</b>	<b>212</b>		<b>232</b>		<b>6,601</b>	

# 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
<b>Impairment group</b>														
Stroke (n=54)	87.0	1.9	87.0	22.2	27.8	16.7	13.0	3.7	40.7	40.7	9.3	9.3	3.7	31.5
Brain (n=8)	75.0	0.0	100.0	37.5	12.5	25.0	12.5	0.0	50.0	12.5	0.0	25.0	37.5	62.5
Neurological (n=20)	95.0	5.0	75.0	50.0	30.0	15.0	20.0	10.0	45.0	40.0	15.0	5.0	5.0	30.0
Spinal cord (n=2)	100.0	50.0	100.0	50.0	100.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	50.0
Amputee (n=2)	150.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0	0.0	50.0
Arthritis (n=3)	100.0	33.3	33.3	33.3	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pain (n=8)	100.0	12.5	100.0	0.0	25.0	37.5	12.5	0.0	0.0	0.0	25.0	75.0	0.0	0.0
Ortho - fractures (n=11)	118.2	18.2	72.7	36.4	27.3	45.5	0.0	9.1	0.0	45.5	18.2	0.0	0.0	54.5
Ortho - replacements (n=76)	98.7	59.2	78.9	22.4	34.2	22.4	9.2	3.9	0.0	1.3	14.5	1.3	0.0	5.3
Ortho - soft tissue injury (n=1)	100.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
Ortho - others (n=13)	100.0	46.2	76.9	30.8	23.1	38.5	0.0	0.0	0.0	7.7	23.1	7.7	0.0	7.7
Cardiac (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pulmonary (n=5)	100.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	20.0	80.0	0.0	0.0	60.0
Burns (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congenital deformity (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other disabling imp. (n=2)	150.0	0.0	50.0	50.0	0.0	0.0	50.0	50.0	50.0	0.0	0.0	0.0	0.0	50.0
Multiple trauma (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Developmental disability (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Reconditioning (n=24)	108.3	8.3	79.2	62.5	29.2	37.5	12.5	0.0	20.8	37.5	16.7	16.7	0.0	20.8
COVID-19 conditions (n=0)	—	—	—	—	—	—	—	—	—	—	—	—	—	—



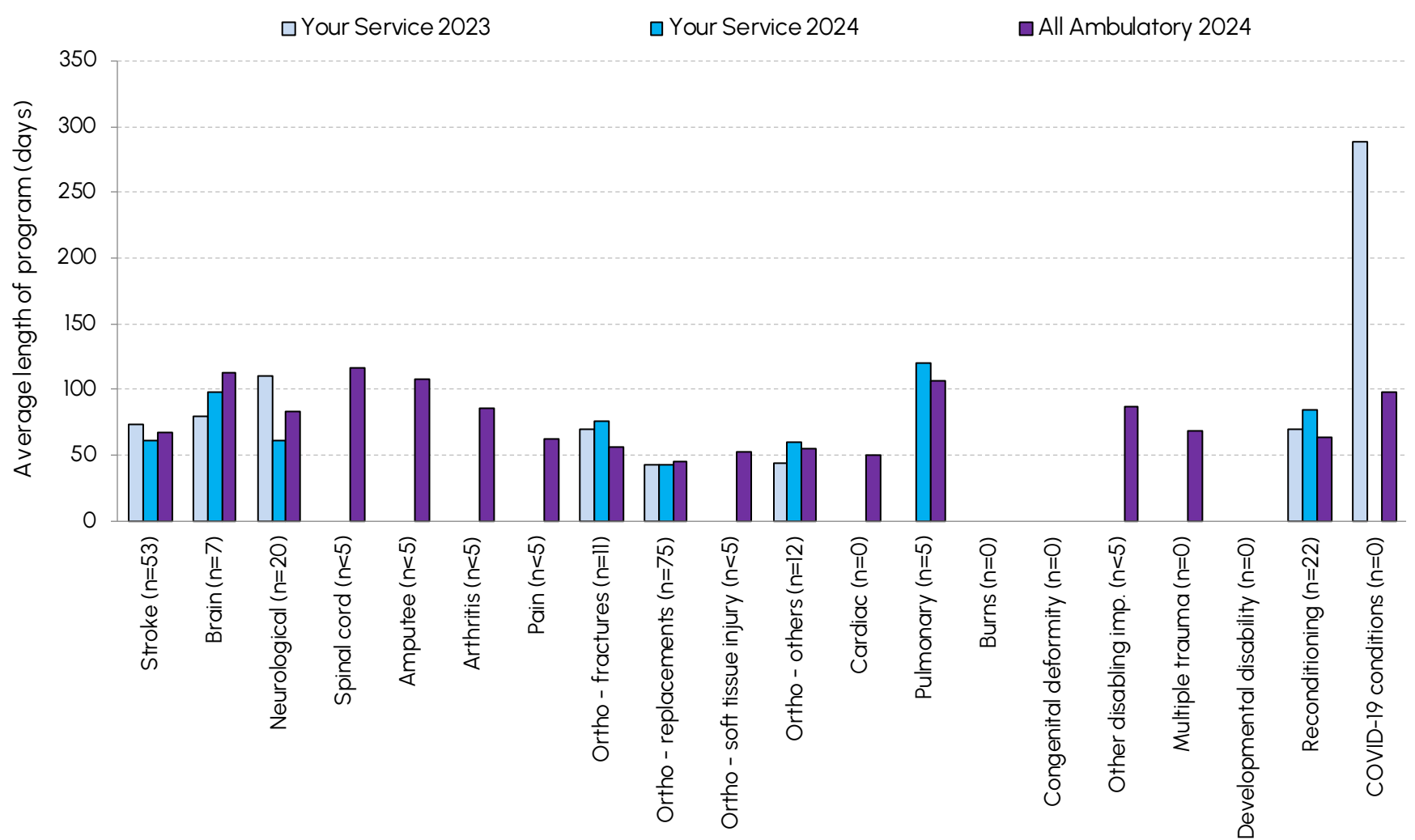
# Outcome measures – All impairments



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

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

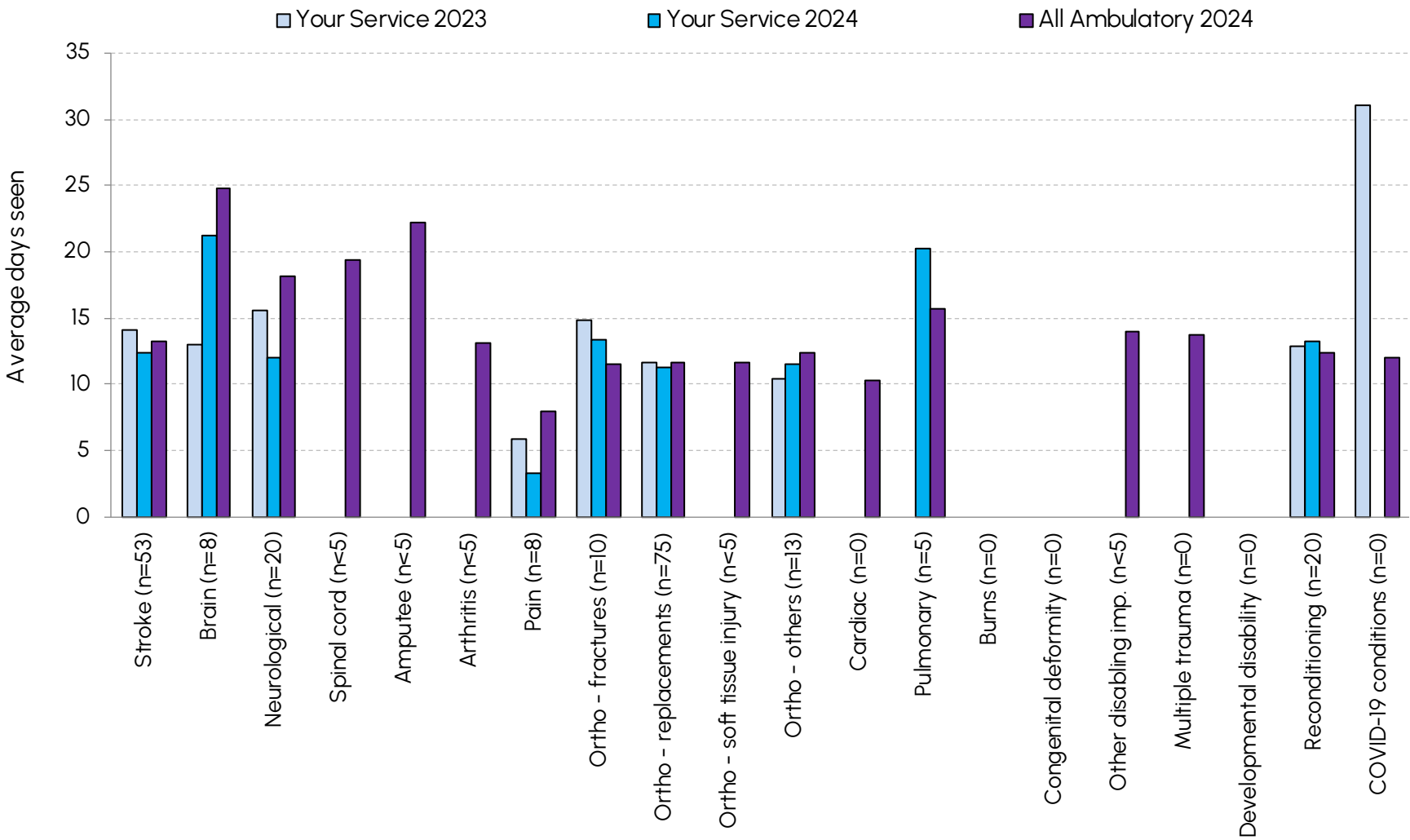
# Length of program by impairment group



# 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	44	73.8	(18 – 178)	53	61.3	(22 – 160)	1,521	66.9	(15 – 168)
Brain	9	79.4		7	97.4		251	112.4	(25 – 270)
Neurological	23	110.6	(37 – 224)	20	61.2	(37 – 97)	472	83.1	(20 – 204)
Spinal cord	3	—		1	—		88	116.9	(28 – 341)
Amputee	3	—		2	—		182	107.4	(25 – 256)
Arthritis	4	—		3	—		92	85.9	(23 – 167)
Pain	2	—		2	—		78	62.6	(18 – 186)
Ortho - fractures	9	69.7		11	75.3		321	56.7	(21 – 105)
Ortho - replacements	62	43.0	(21 – 96)	75	42.3	(22 – 98)	2,536	45.0	(21 – 86)
Ortho - soft tissue injury	3	—		1	—		21	53.0	(35 – 91)
Ortho - others	10	43.5		12	59.8		301	54.7	(16 – 119)
Cardiac	0	—		0	—		53	49.6	(17 – 113)
Pulmonary	3	—		5	120.4		48	107.0	(40 – 184)
Burns	0	—		0	—		0	—	
Congenital deformity	2	—		0	—		3	—	
Other disabling imp.	3	—		2	—		102	86.5	(28 – 188)
Multiple trauma	1	—		0	—		25	68.6	(36 – 196)
Developmental disability	0	—		0	—		3	—	
Reconditioning	18	70.2		22	84.4	(34 – 275)	598	63.3	(21 – 147)
COVID-19 conditions	1	—		0	—		26	98.4	(29 – 205)
Missing or excluded	13			16			491		
<b>All episodes</b>	<b>212</b>	<b>73.9</b>	<b>(16 – 191)</b>	<b>232</b>	<b>60.5</b>	<b>(22 – 155)</b>	<b>7,186</b>	<b>63.1</b>	<b>(19 – 161)</b>

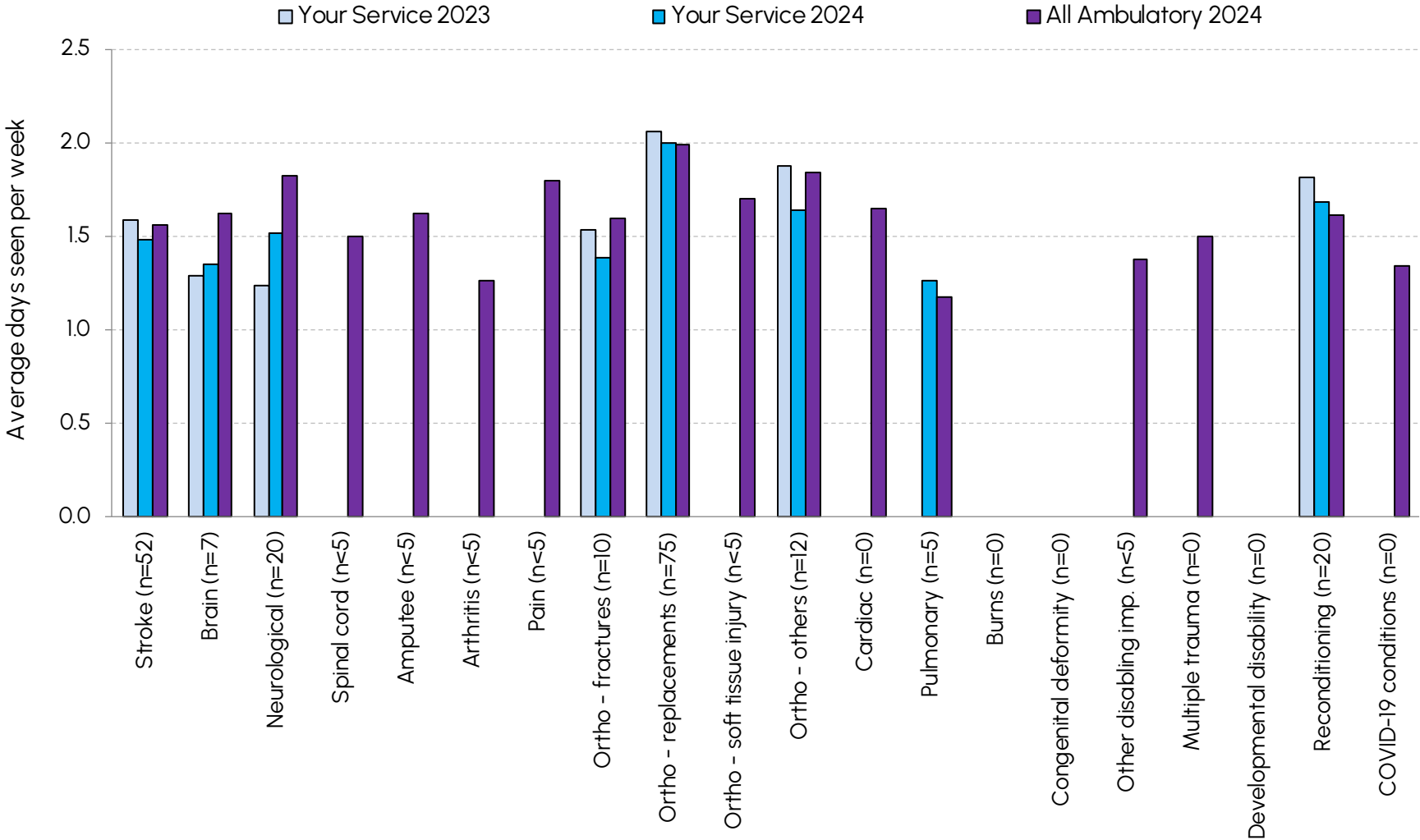
# Days seen by impairment group



# 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	41	14.1	(3 – 28)	53	12.4	(3 – 33)	1,519	13.2	(2 – 33)
Brain	6	13.0		8	21.3		233	24.7	(4 – 82)
Neurological	23	15.5	(7 – 33)	20	12.1	(3 – 17)	464	18.1	(3 – 30)
Spinal cord	3	—		2	—		101	19.4	(5 – 49)
Amputee	3	—		2	—		172	22.2	(4 – 65)
Arthritis	4	—		3	—		94	13.1	(3 – 23)
Pain	6	5.8		8	3.3		117	8.0	(1 – 20)
Ortho - fractures	9	14.8		10	13.4		312	11.5	(4 – 20)
Ortho - replacements	62	11.7	(6 – 20)	75	11.3	(6 – 20)	2,555	11.6	(6 – 20)
Ortho - soft tissue injury	3	—		1	—		21	11.7	(7 – 20)
Ortho - others	11	10.4		13	11.5		308	12.4	(4 – 21)
Cardiac	0	—		0	—		56	10.3	(3 – 25)
Pulmonary	3	—		5	20.2		50	15.7	(4 – 28)
Burns	0	—		0	—		0	—	
Congenital deformity	2	—		0	—		3	—	
Other disabling imp.	3	—		2	—		99	14.0	(4 – 35)
Multiple trauma	1	—		0	—		24	13.8	(6 – 30)
Developmental disability	0	—		0	—		3	—	
Reconditioning	17	12.9		20	13.3	(5 – 20)	574	12.4	(4 – 22)
COVID-19 conditions	1	—		0	—		23	12.0	(5 – 24)
Missing or excluded	15			10			481		
<b>All episodes</b>	<b>212</b>	<b>13.2</b>	<b>(2 – 25)</b>	<b>232</b>	<b>12.3</b>	<b>(3 – 24)</b>	<b>7,186</b>	<b>12.9</b>	<b>(3 – 27)</b>

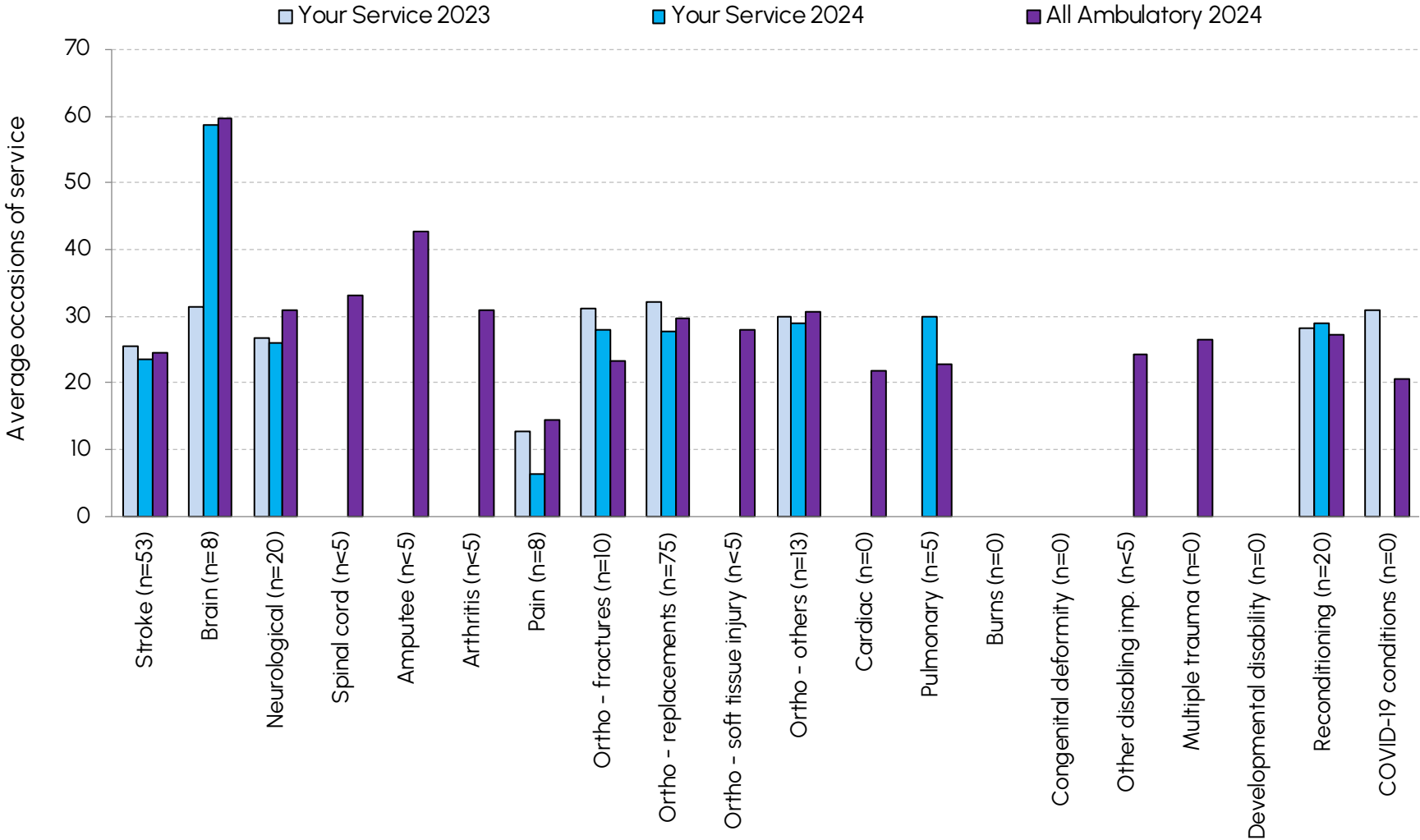
# Days seen per elapsed week by impairment group



# 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	40	1.6	(0.5 – 2.8)	52	1.5	(0.5 – 3.0)	1,475	1.6	(0.4 – 3.1)
Brain	6	1.3		7	1.3		231	1.6	(0.5 – 3.2)
Neurological	23	1.2	(0.5 – 2.3)	20	1.5	(0.3 – 2.6)	456	1.8	(0.3 – 3.0)
Spinal cord	3	—		1	—		88	1.5	(0.4 – 3.0)
Amputee	3	—		2	—		163	1.6	(0.3 – 3.7)
Arthritis	4	—		3	—		92	1.3	(0.3 – 2.3)
Pain	2	—		2	—		75	1.8	(0.6 – 2.5)
Ortho - fractures	9	1.5		10	1.4		307	1.6	(0.6 – 2.7)
Ortho - replacements	62	2.1	(1.3 – 3.0)	75	2.0	(1.2 – 3.1)	2,530	2.0	(1.0 – 3.0)
Ortho - soft tissue injury	3	—		1	—		21	1.7	(0.8 – 2.5)
Ortho - others	10	1.9		12	1.6		299	1.8	(0.9 – 2.7)
Cardiac	0	—		0	—		53	1.7	(0.7 – 2.6)
Pulmonary	3	—		5	1.3		48	1.2	(0.4 – 2.1)
Burns	0	—		0	—		0	—	
Congenital deformity	2	—		0	—		3	—	
Other disabling imp.	3	—		2	—		97	1.4	(0.3 – 2.6)
Multiple trauma	1	—		0	—		24	1.5	(0.7 – 2.2)
Developmental disability	0	—		0	—		3	—	
Reconditioning	17	1.8		20	1.7	(0.3 – 2.6)	559	1.6	(0.6 – 2.5)
COVID-19 conditions	1	—		0	—		23	1.3	(0.3 – 5.0)
Missing or excluded	21			20			662		
<b>All episodes</b>	<b>212</b>	<b>1.6</b>	<b>(0.5 – 2.8)</b>	<b>232</b>	<b>1.7</b>	<b>(0.6 – 2.8)</b>	<b>7,186</b>	<b>1.7</b>	<b>(0.5 – 3.0)</b>

# Occasions of service by impairment group

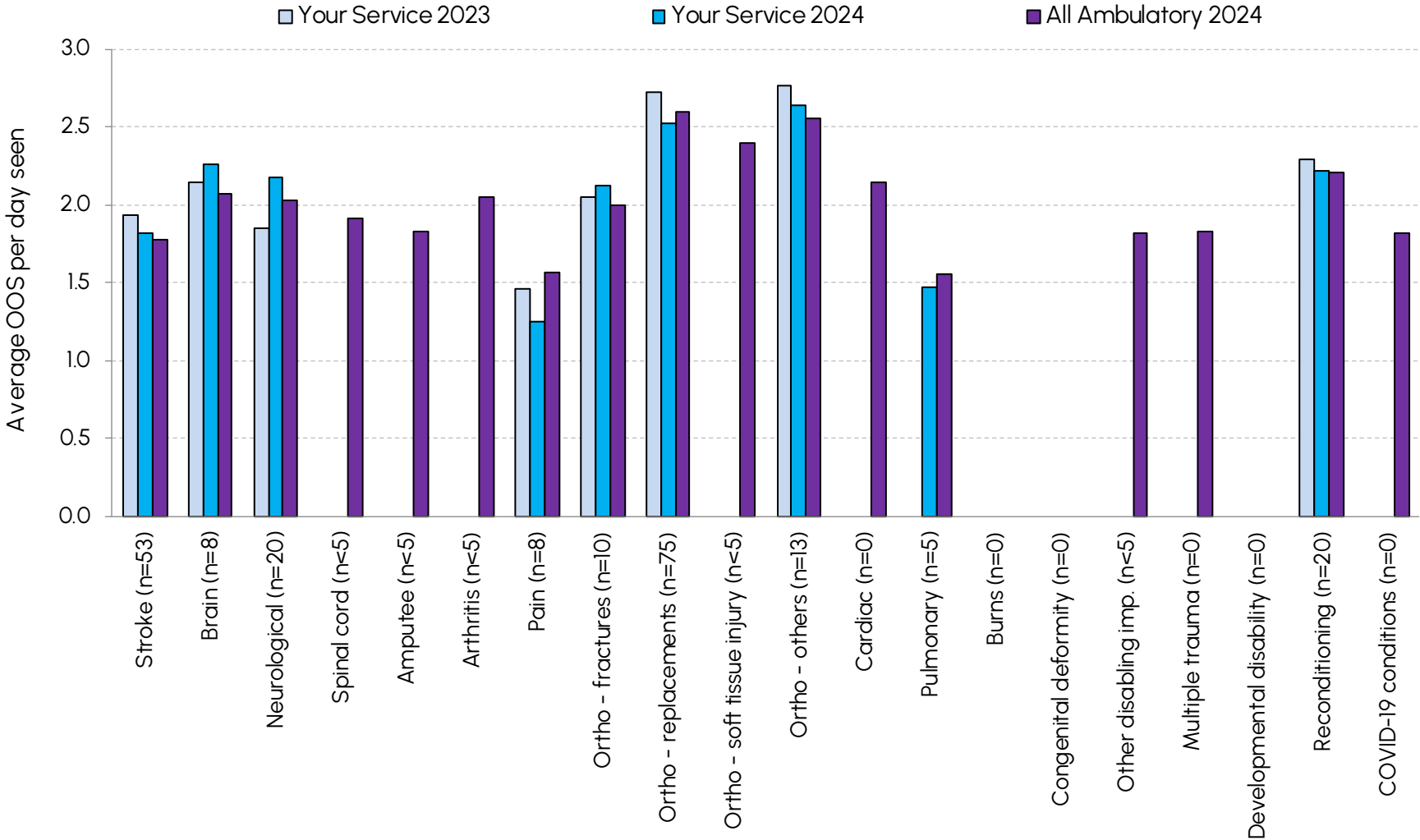




# Occasions of service by impairment group

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	41	25.5	(6 – 55)	53	23.5	(4 – 68)	1,512	24.4	(3 – 67)
Brain	6	31.3		8	58.6		233	59.8	(6 – 242)
Neurological	23	26.7	(8 – 54)	20	26.1	(5 – 42)	464	30.9	(6 – 60)
Spinal cord	3	—		2	—		101	33.0	(7 – 72)
Amputee	3	—		2	—		172	42.7	(6 – 141)
Arthritis	4	—		3	—		94	31.0	(5 – 66)
Pain	6	12.7		8	6.3		117	14.4	(1 – 43)
Ortho - fractures	9	31.1		10	28.0		312	23.2	(5 – 54)
Ortho - replacements	62	32.1	(9 – 60)	75	27.6	(12 – 57)	2,557	29.8	(11 – 57)
Ortho - soft tissue injury	3	—		1	—		21	27.9	(10 – 50)
Ortho - others	11	29.9		13	29.0		308	30.7	(7 – 58)
Cardiac	0	—		0	—		56	21.7	(6 – 49)
Pulmonary	3	—		5	29.8		50	22.9	(7 – 40)
Burns	0	—		0	—		0	—	
Congenital deformity	2	—		0	—		3	—	
Other disabling imp.	3	—		2	—		99	24.2	(6 – 52)
Multiple trauma	1	—		0	—		24	26.5	(7 – 53)
Developmental disability	0	—		0	—		3	—	
Reconditioning	17	28.2		20	29.0	(12 – 60)	574	27.3	(5 – 55)
COVID-19 conditions	1	—		0	—		23	20.6	(10 – 35)
Missing or excluded	15	—		10	—		486	—	
<b>All episodes</b>	<b>212</b>	<b>28.4</b>	<b>(6 – 60)</b>	<b>232</b>	<b>26.8</b>	<b>(4 – 57)</b>	<b>7,186</b>	<b>28.4</b>	<b>(5 – 60)</b>

# 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	41	1.9	(1.0 – 3.1)	53	1.8	(1.0 – 3.0)	1,512	1.8	(1.0 – 3.2)
Brain	6	2.1		8	2.3		233	2.1	(1.0 – 3.9)
Neurological	23	1.9	(1.0 – 3.0)	20	2.2	(1.1 – 3.0)	464	2.0	(1.0 – 3.2)
Spinal cord	3	—		2	—		101	1.9	(1.0 – 3.3)
Amputee	3	—		2	—		172	1.8	(1.1 – 3.8)
Arthritis	4	—		3	—		94	2.1	(1.0 – 3.0)
Pain	6	1.5		8	1.3		117	1.6	(1.0 – 3.0)
Ortho - fractures	9	2.0		10	2.1		312	2.0	(1.0 – 3.0)
Ortho - replacements	62	2.7	(1.0 – 3.0)	75	2.5	(1.0 – 3.0)	2,555	2.6	(1.0 – 3.0)
Ortho - soft tissue injury	3	—		1	—		21	2.4	(1.1 – 3.0)
Ortho - others	11	2.8		13	2.6		308	2.6	(1.0 – 3.0)
Cardiac	0	—		0	—		56	2.1	(1.2 – 3.0)
Pulmonary	3	—		5	1.5		50	1.6	(1.1 – 3.0)
Burns	0	—		0	—		0	—	
Congenital deformity	2	—		0	—		3	—	
Other disabling imp.	3	—		2	—		99	1.8	(1.0 – 2.8)
Multiple trauma	1	—		0	—		24	1.8	(1.0 – 2.9)
Developmental disability	0	—		0	—		3	—	
Reconditioning	17	2.3		20	2.2	(1.0 – 3.0)	574	2.2	(1.0 – 3.0)
COVID-19 conditions	1	—		0	—		23	1.8	(1.0 – 2.7)
Missing or excluded	15			10			488		
<b>All episodes</b>	<b>212</b>	<b>2.2</b>	<b>(1.0 – 3.0)</b>	<b>232</b>	<b>2.2</b>	<b>(1.0 – 3.0)</b>	<b>7,186</b>	<b>2.2</b>	<b>(1.0 – 3.0)</b>

# Employment outcomes by impairment group

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

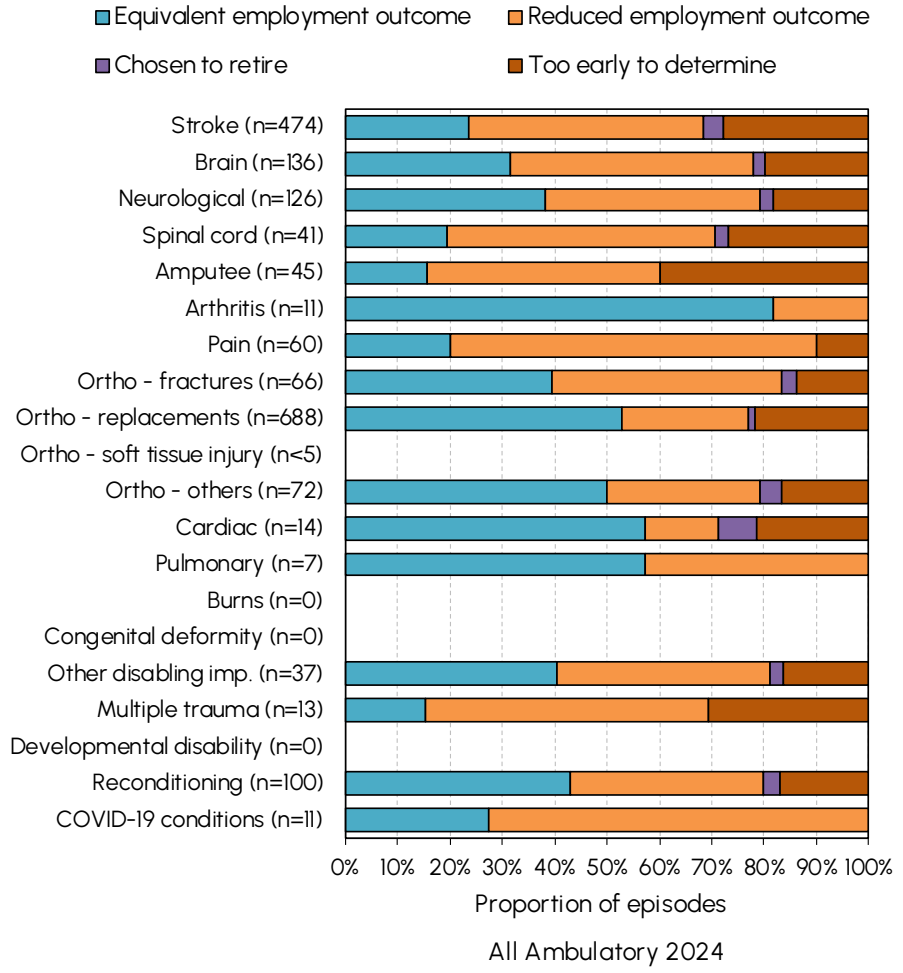
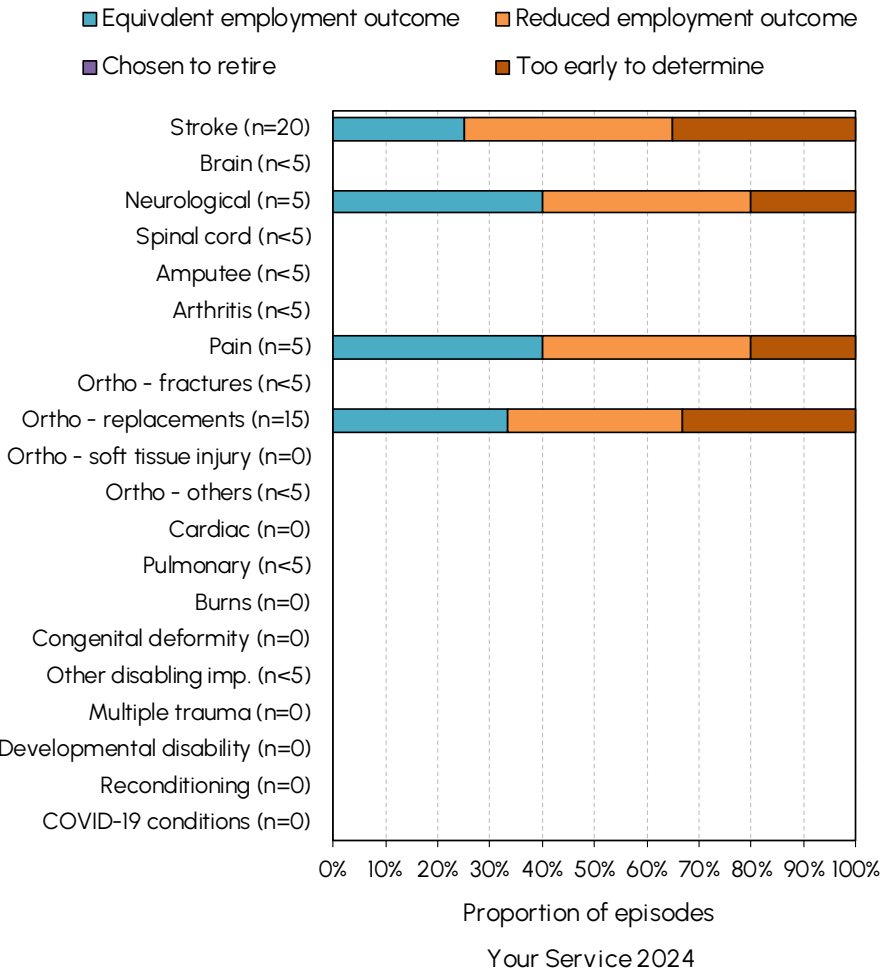
- the same or similar job with same or similar hours  
or
- a different job by choice.

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



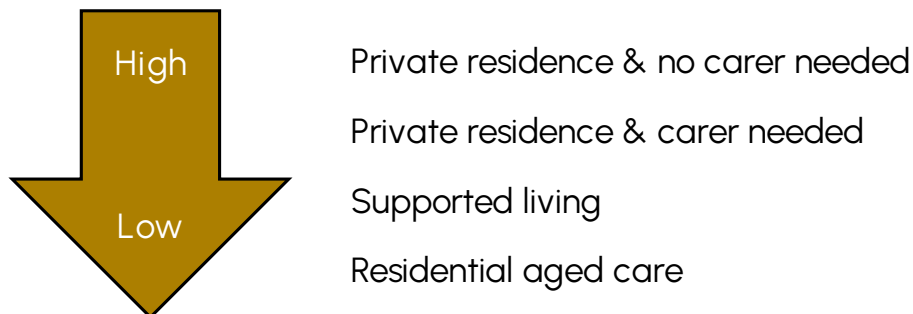
# Employment outcomes by impairment group

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	5	60.0	20	25.0	474	23.4
Brain	3	33.3	3	33.3	136	31.6
Neurological	8	25.0	5	40.0	126	38.1
Spinal cord	0	—	1	0.0	41	19.5
Amputee	0	—	1	0.0	45	15.6
Arthritis	0	—	1	100.0	11	81.8
Pain	3	0.0	5	40.0	60	20.0
Ortho - fractures	2	100.0	4	0.0	66	39.4
Ortho - replacements	12	33.3	15	33.3	688	52.9
Ortho - soft tissue injury	0	—	0	—	4	—
Ortho - others	7	57.1	3	66.7	72	50.0
Cardiac	0	—	0	—	14	57.1
Pulmonary	0	—	1	100.0	7	57.1
Burns	0	—	0	—	0	—
Congenital deformity	1	100.0	0	—	0	—
Other disabling imp.	2	50.0	1	100.0	37	40.5
Multiple trauma	1	100.0	0	—	13	15.4
Developmental disability	0	—	0	—	0	—
Reconditioning	4	75.0	0	—	100	43.0
COVID-19 conditions	1	100.0	0	—	11	27.3
Missing or excluded	164		172		5,292	
<b>All episodes</b>	<b>212</b>	<b>45.8</b>	<b>232</b>	<b>33.3</b>	<b>7,186</b>	<b>39.0</b>

# 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.

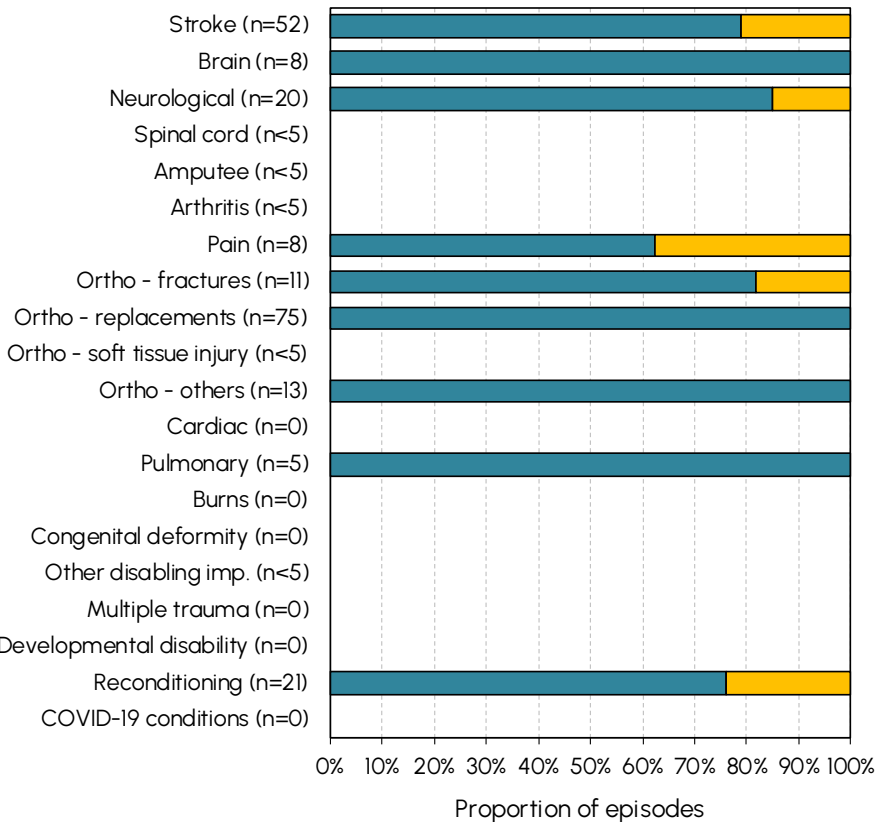
A patient is defined as having 'reduced independence' when:

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

# Independence outcomes by impairment group

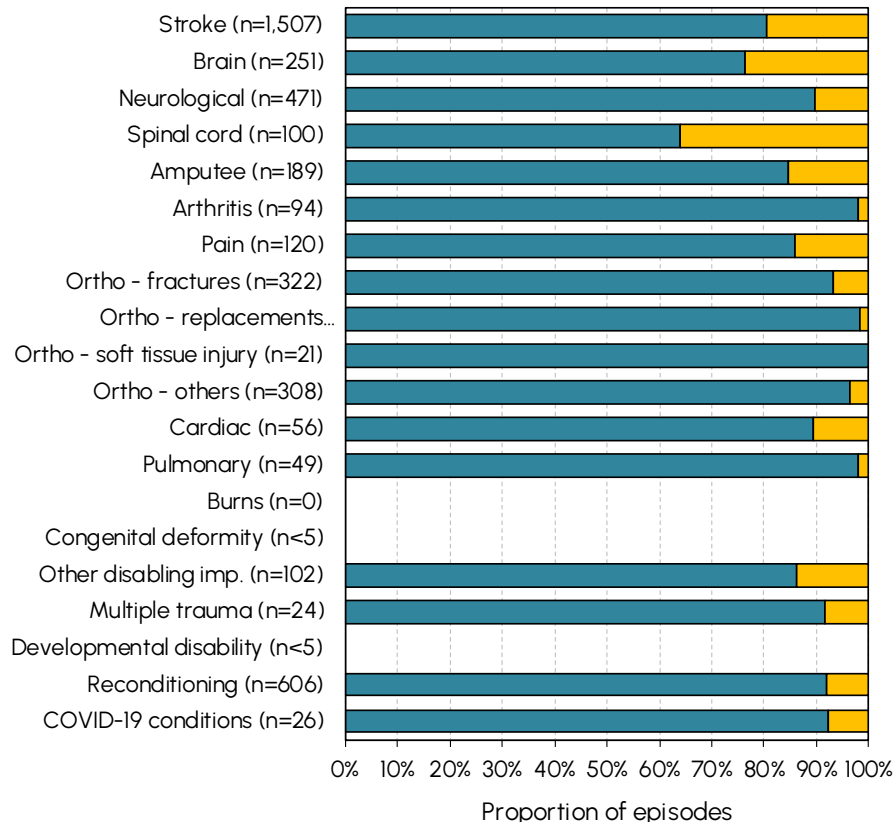


■ Equivalent independence   ■ Reduced independence



Your Service 2024

■ Equivalent independence   ■ Reduced independence



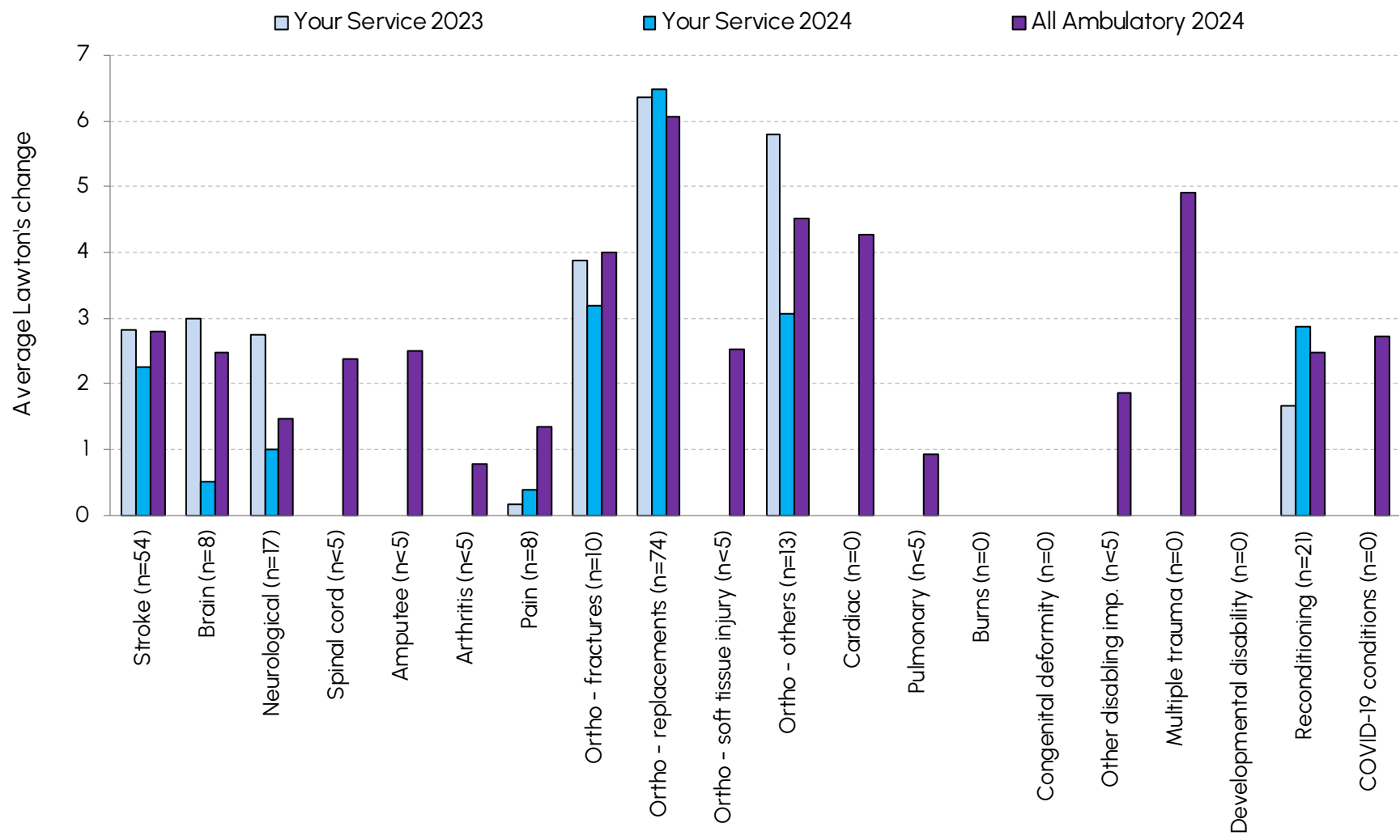
All Ambulatory 2024



# 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	42	71.4	52	78.8	1,507	80.5
Brain	9	100.0	8	100.0	251	76.5
Neurological	22	77.3	20	85.0	471	89.6
Spinal cord	3	100.0	2	0.0	100	64.0
Amputee	3	33.3	2	100.0	189	84.7
Arthritis	4	100.0	3	100.0	94	97.9
Pain	6	100.0	8	62.5	120	85.8
Ortho - fractures	9	77.8	11	81.8	322	93.2
Ortho - replacements	62	100.0	75	100.0	2,551	98.2
Ortho - soft tissue injury	3	66.7	1	100.0	21	100.0
Ortho - others	11	100.0	13	100.0	308	96.4
Cardiac	0	—	0	—	56	89.3
Pulmonary	3	100.0	5	100.0	49	98.0
Burns	0	—	0	—	0	—
Congenital deformity	2	100.0	0	—	3	—
Other disabling imp.	3	100.0	2	100.0	102	86.3
Multiple trauma	1	100.0	0	—	24	91.7
Developmental disability	0	—	0	—	3	—
Reconditioning	18	94.4	21	76.2	606	92.1
COVID-19 conditions	1	100.0	0	—	26	92.3
Missing or excluded	11		9		409	
<b>All episodes</b>	<b>212</b>	<b>88.6</b>	<b>232</b>	<b>88.3</b>	<b>7,186</b>	<b>90.6</b>

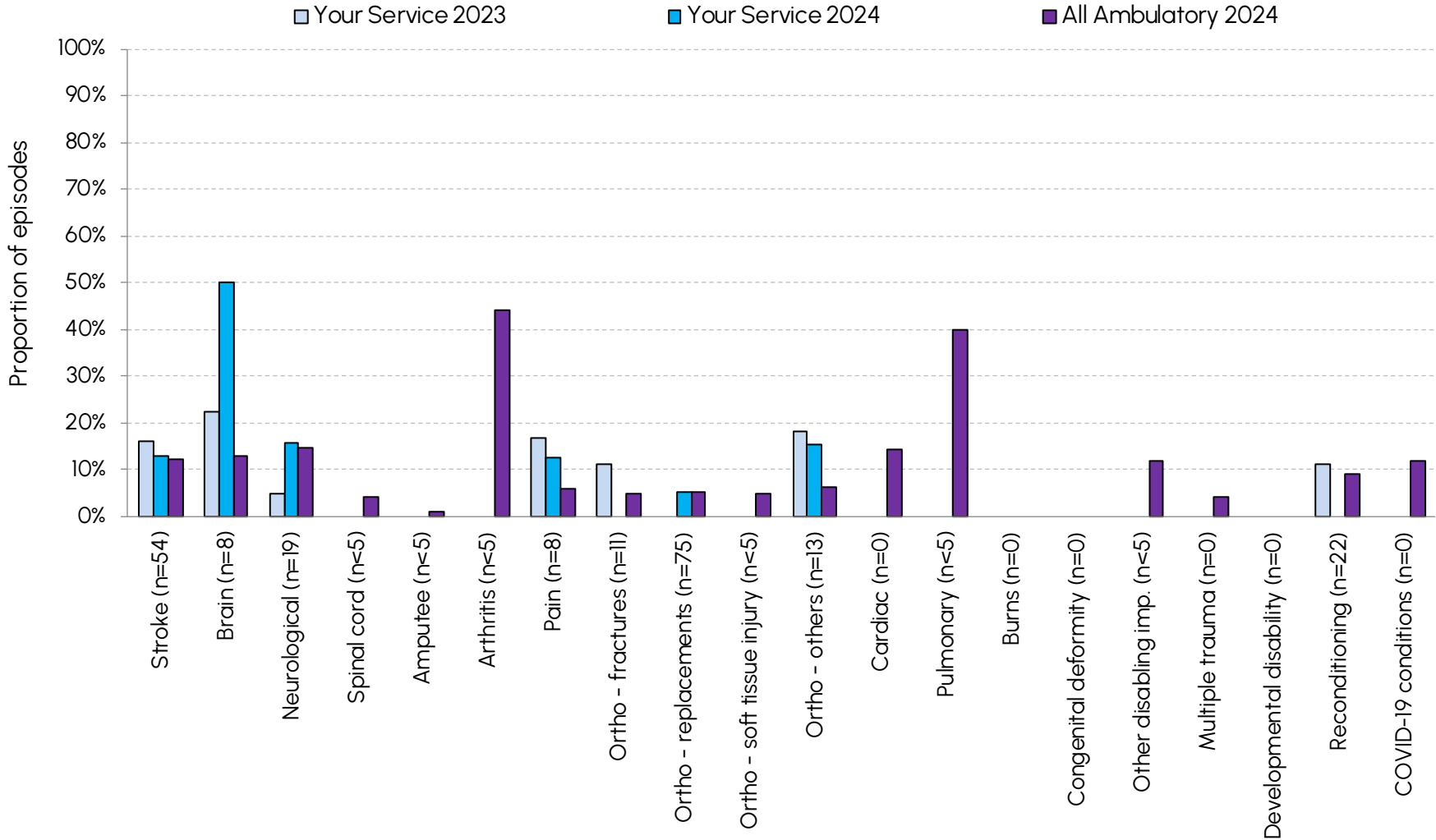
# Lawton's score change by impairment



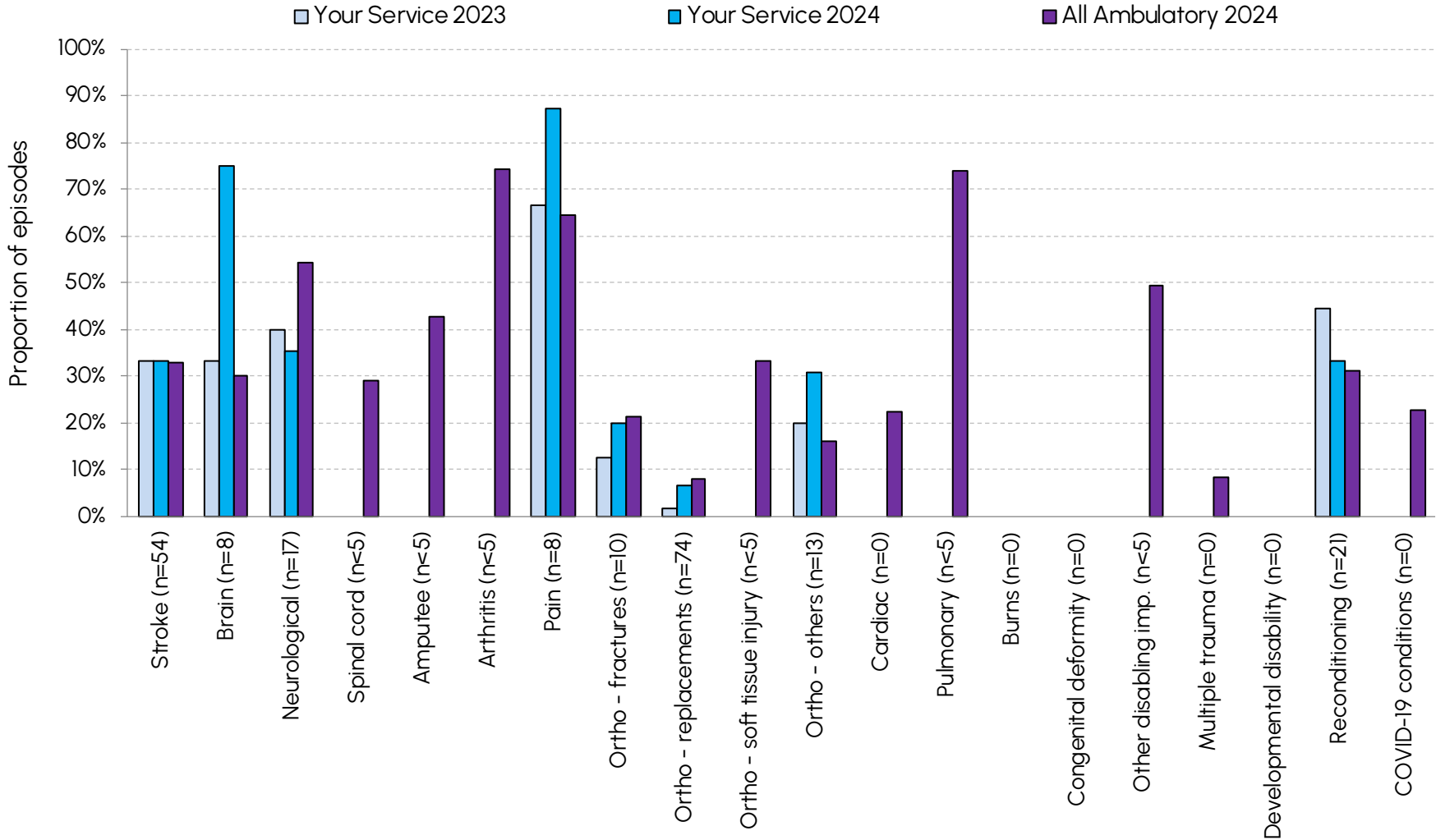
# Lawton's score change by impairment

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	42	2.8	54	2.3	1,509	2.8
Brain	9	3.0	8	0.5	242	2.5
Neurological	20	2.8	17	1.0	440	1.5
Spinal cord	3	5.0	2	1.5	100	2.4
Amputee	3	1.3	2	2.0	189	2.5
Arthritis	3	0.3	3	0.0	86	0.8
Pain	6	0.2	8	0.4	113	1.3
Ortho - fractures	8	3.9	10	3.2	318	4.0
Ortho - replacements	62	6.4	74	6.5	2,530	6.1
Ortho - soft tissue injury	3	1.7	1	7.0	21	2.5
Ortho - others	10	5.8	13	3.1	301	4.5
Cardiac	0	—	0	—	54	4.3
Pulmonary	2	1.5	4	0.0	27	0.9
Burns	0	—	0	—	0	—
Congenital deformity	2	3.5	0	—	3	—
Other disabling imp.	2	0.0	2	2.0	99	1.9
Multiple trauma	1	0.0	0	—	24	4.9
Developmental disability	0	—	0	—	3	—
Reconditioning	18	1.7	21	2.9	602	2.5
COVID-19 conditions	1	2.0	0	—	22	2.7
Missing or excluded	18		13		525	
<b>All episodes</b>	<b>212</b>	<b>3.9</b>	<b>232</b>	<b>3.5</b>	<b>7,186</b>	<b>4.0</b>

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

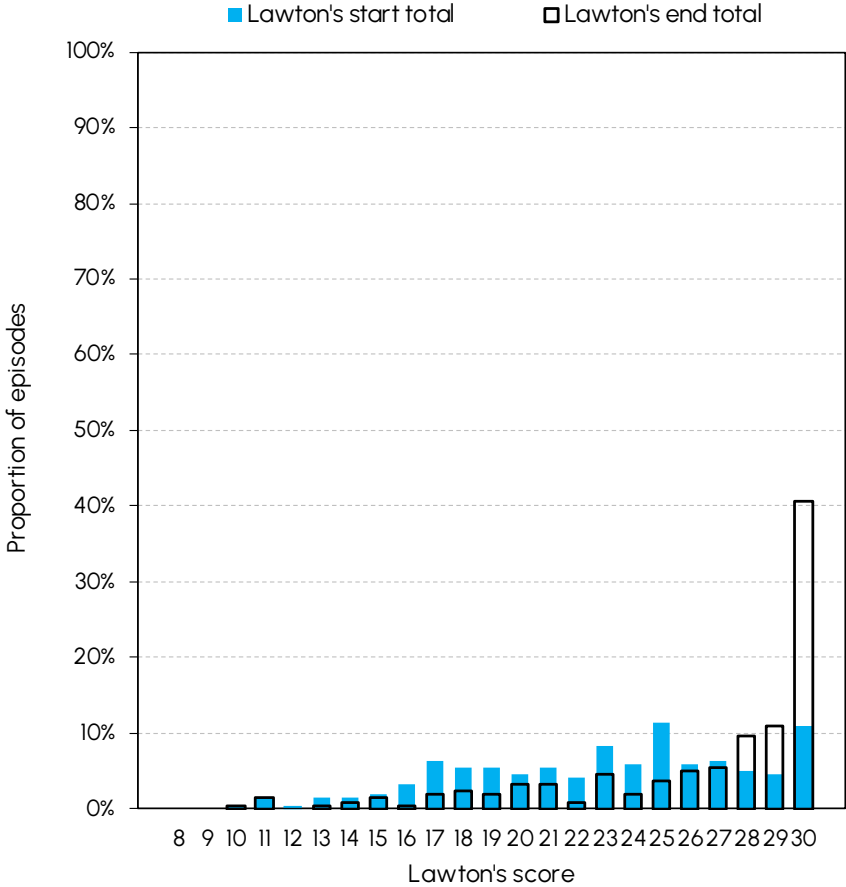


# Episodes with no change in Lawton's score by impairment group

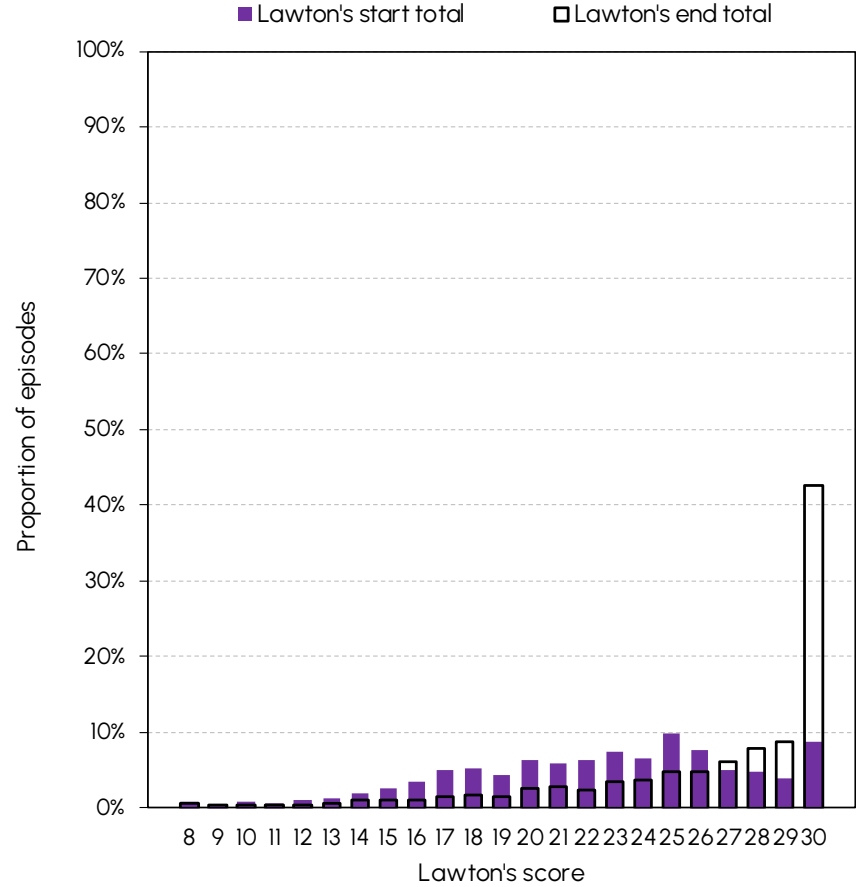


# Lawton's start and end total – all episodes

Your Service 2024 (n=219)



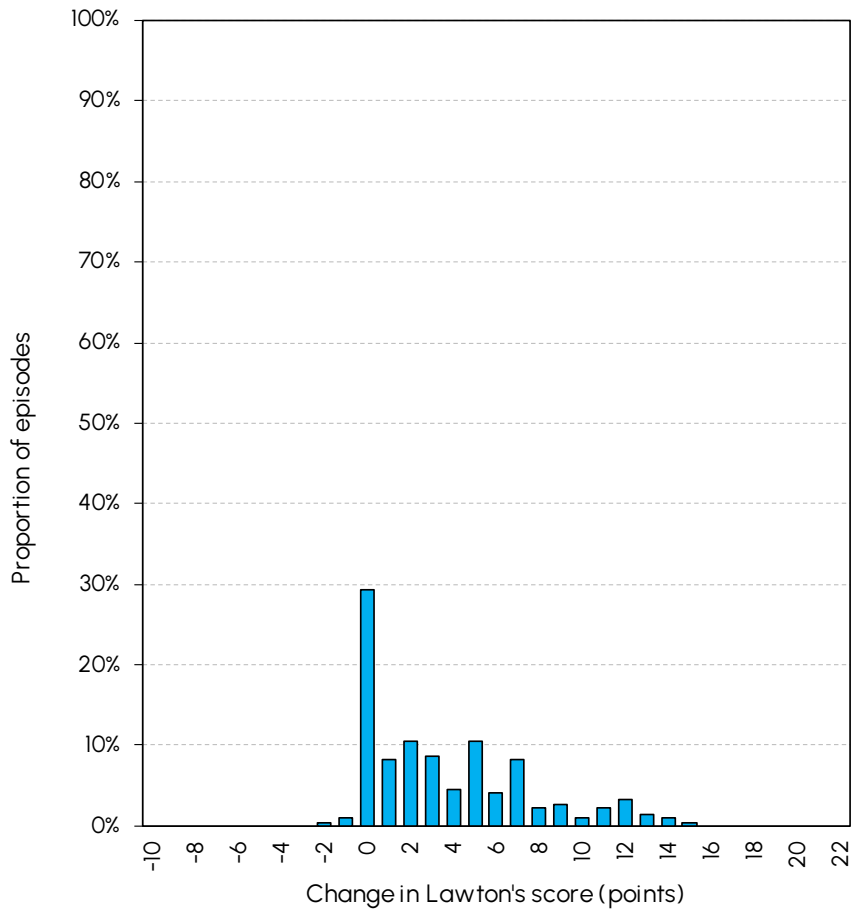
All Ambulatory 2024 (n=6,696)



# Change in Lawton's score – all episodes

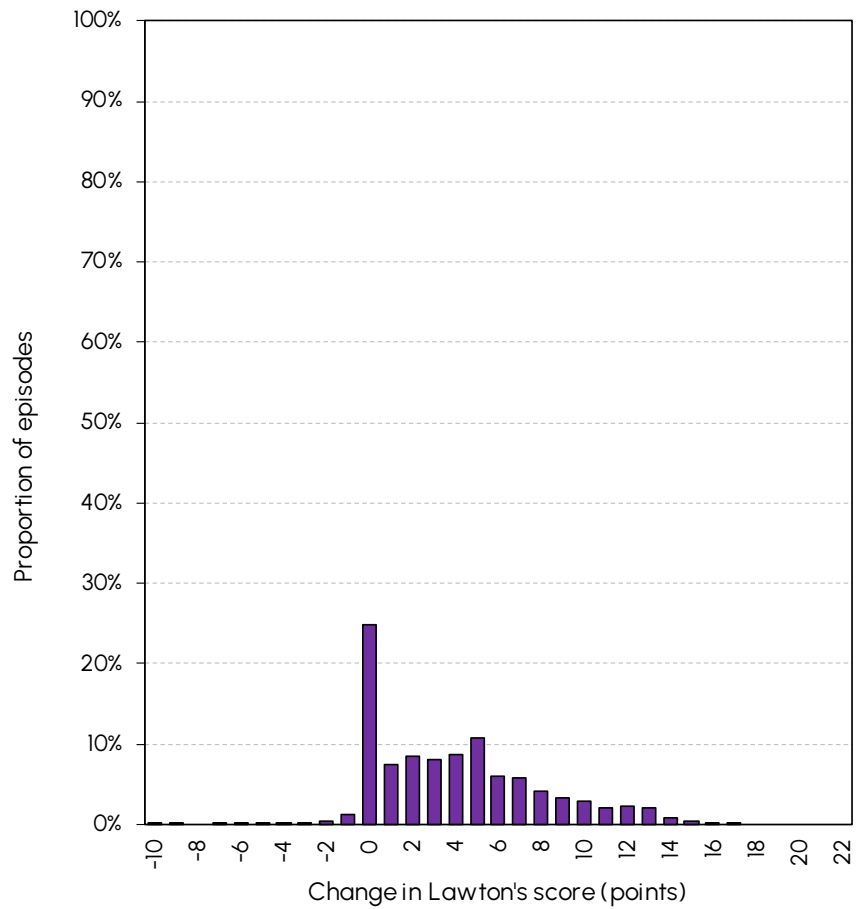


Your Service 2024 (n=218)



Note: 1 episodes had a Lawton's change score < -10.

All Ambulatory 2024 (n=6,690)

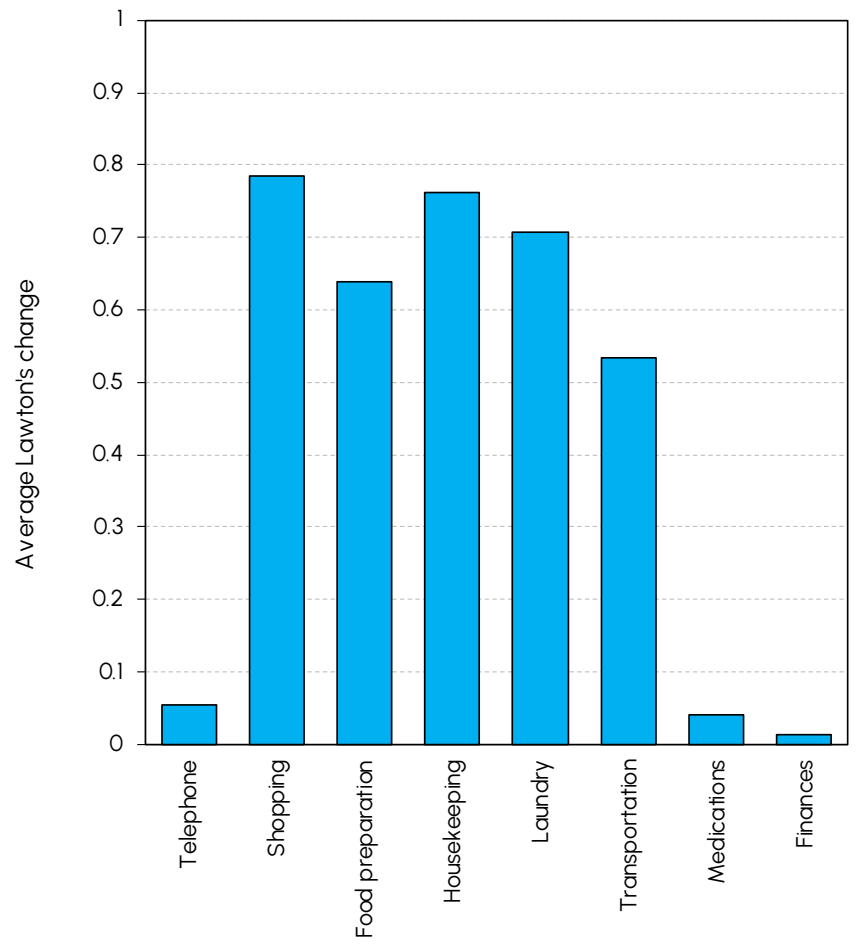


Note: 6 episode(s) had a Lawton's change score < -10.

# Change in Lawton's item scores – all episodes

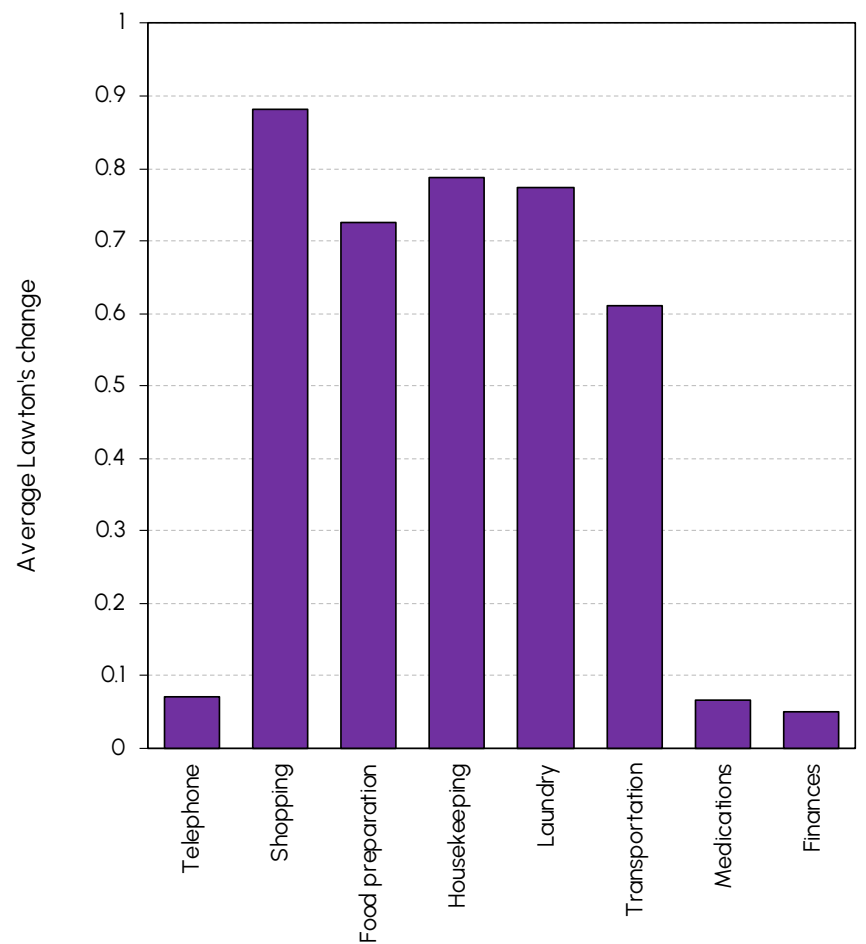


Your Service 2024 (n=218)



Note: 1 episodes had a Lawton's change score < -10.

All Ambulatory 2024 (n=6,690)

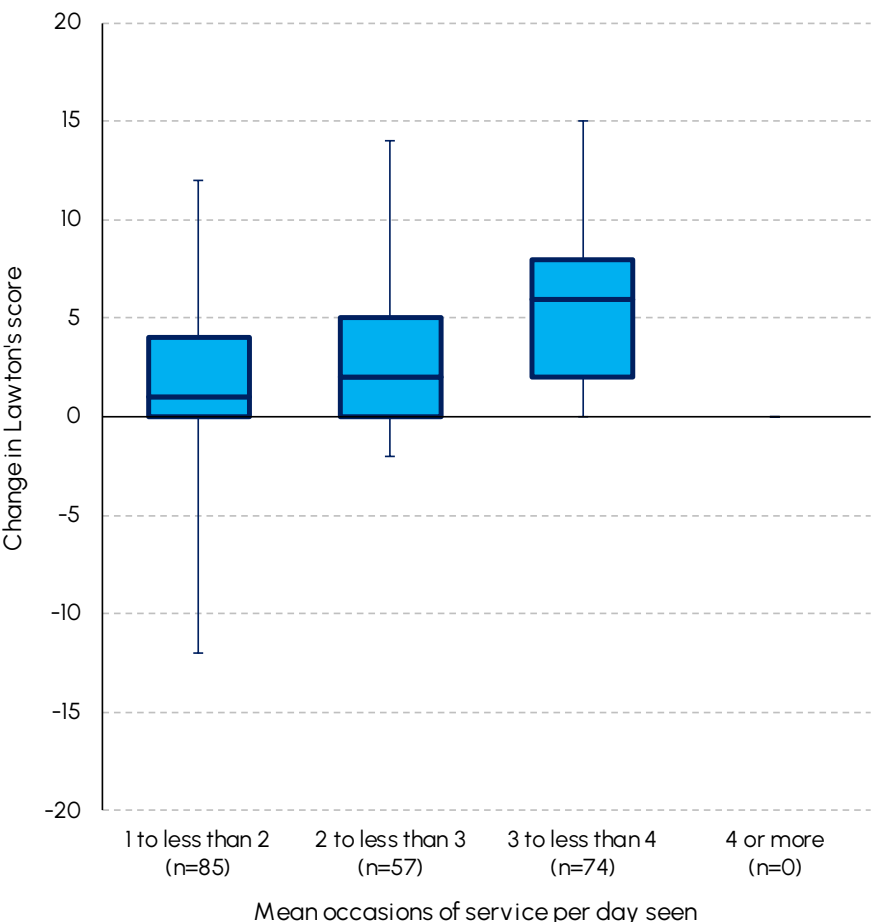


Note: 6 episode(s) had a Lawton's change score < -10.

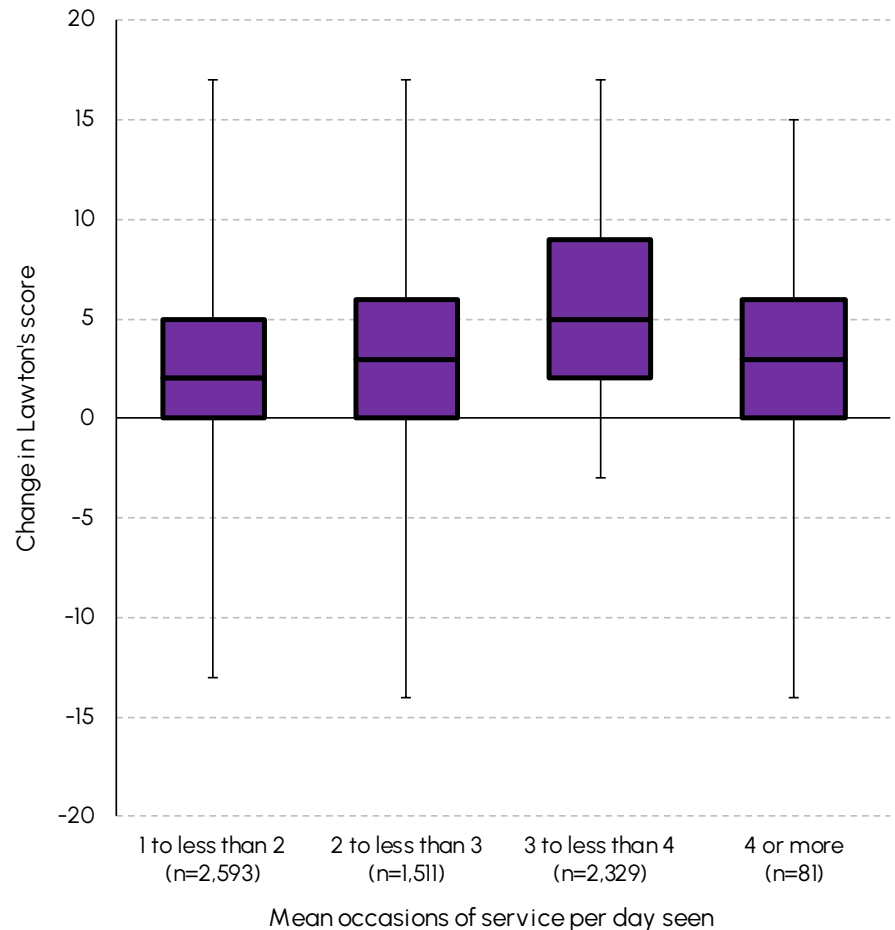


# Change in Lawton's score by OOS/day seen – all episodes

Your Service 2024

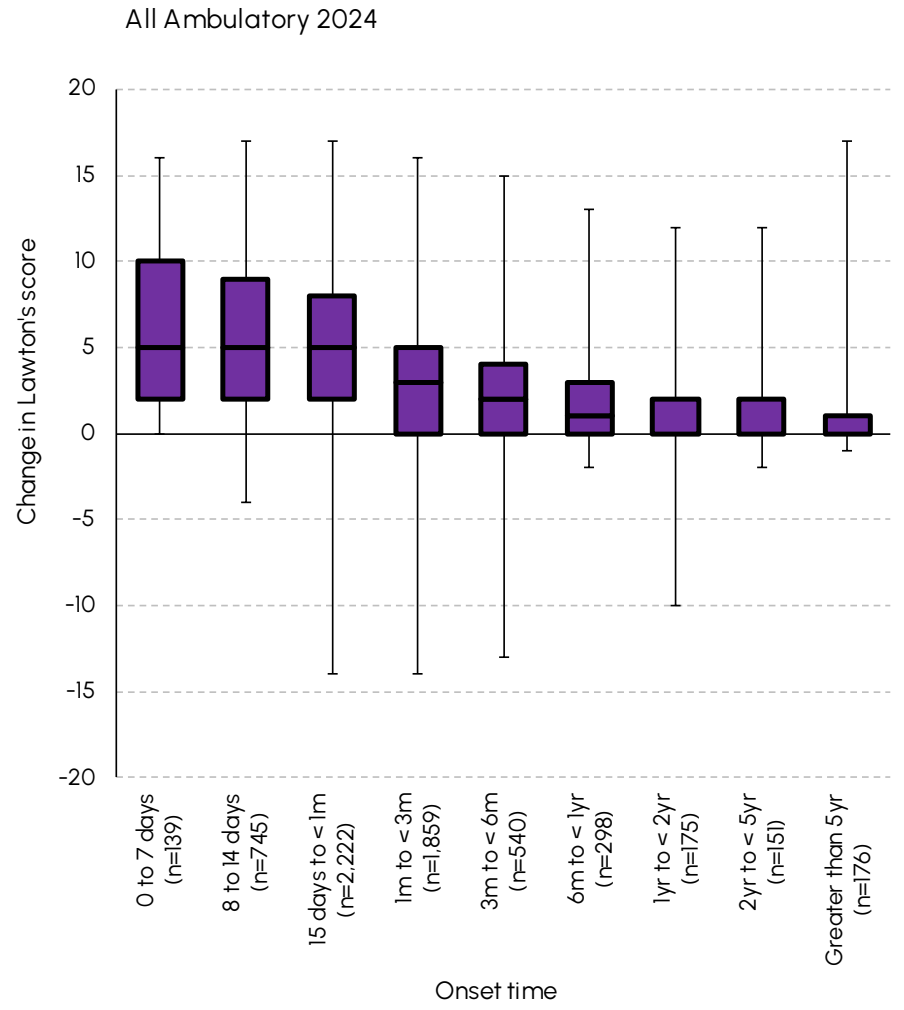
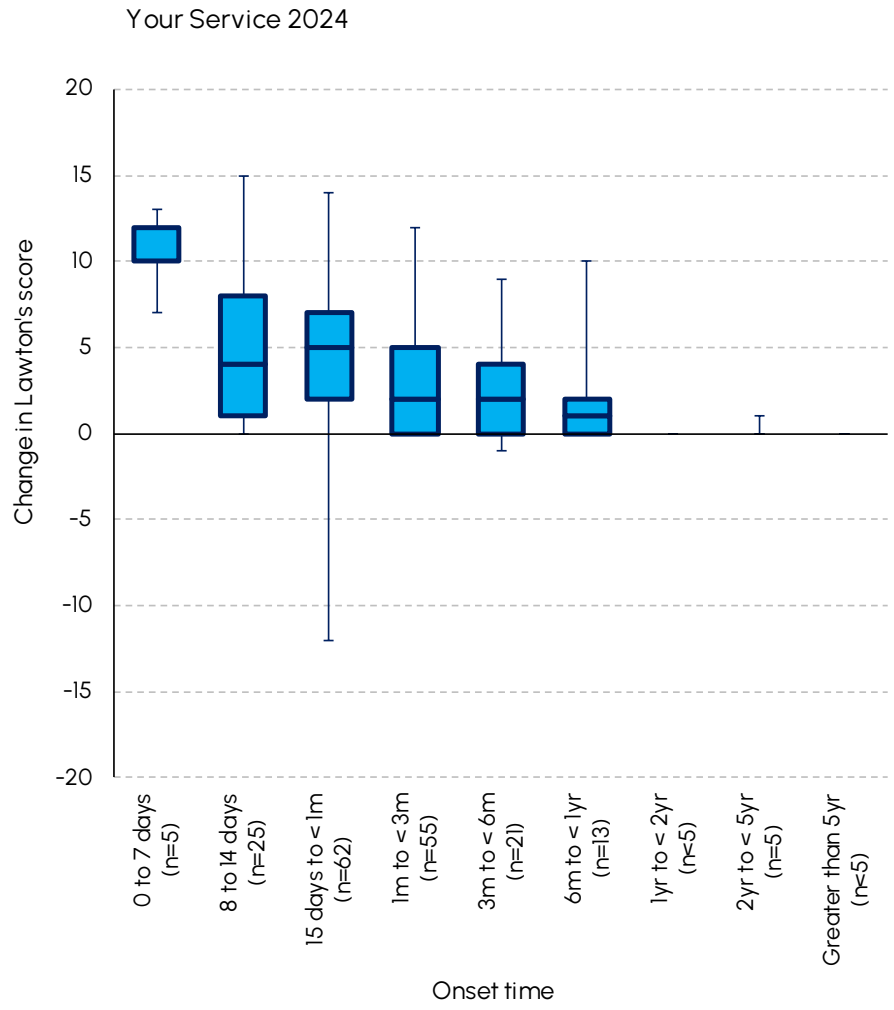


All Ambulatory 2024



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

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



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)



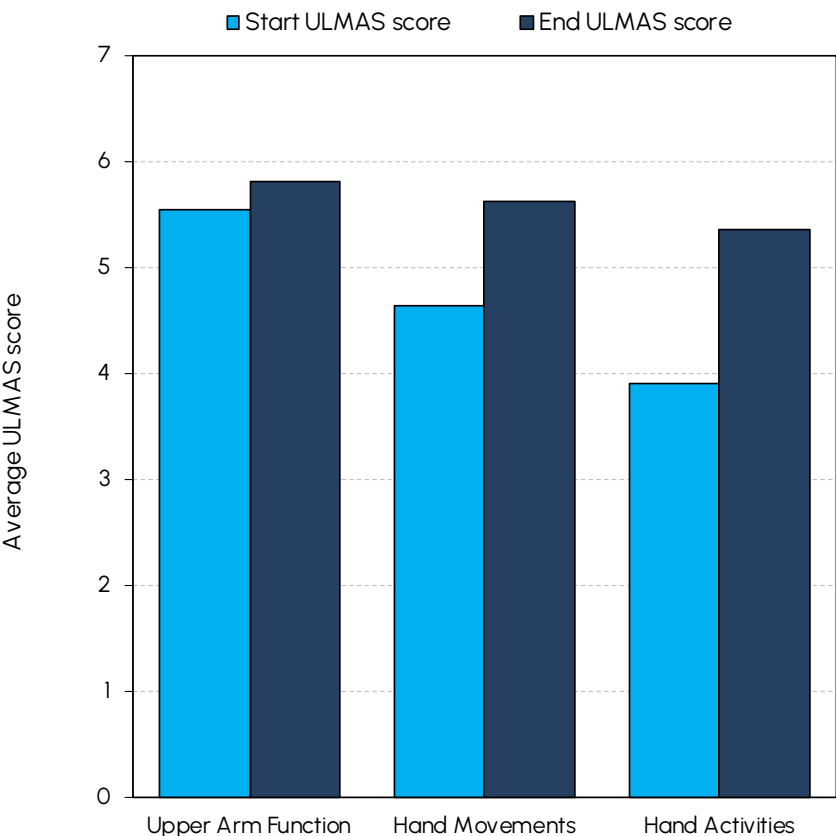
- This data item is collected in addition to the Australian Modified Lawton's IADL Scale for patients who have sustained upper limb impairment following a stroke.
- The UL-MAS is used to assess everyday upper limb motor function in adults following stroke.

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

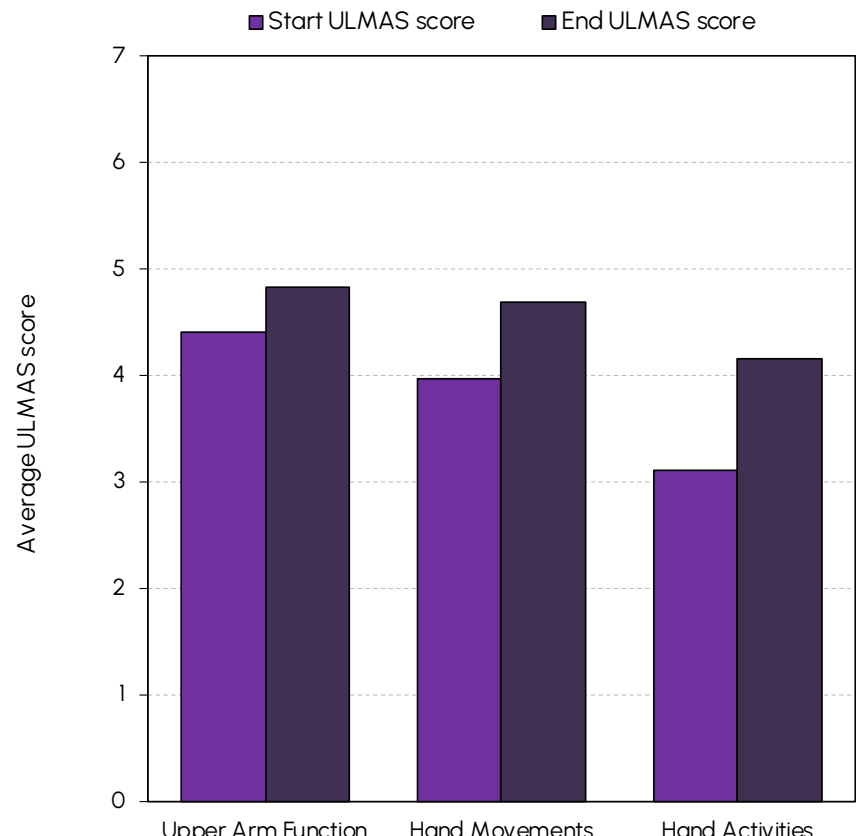
# Average ULMAS start and end score by sub-group



Your Service 2024 (n=11)

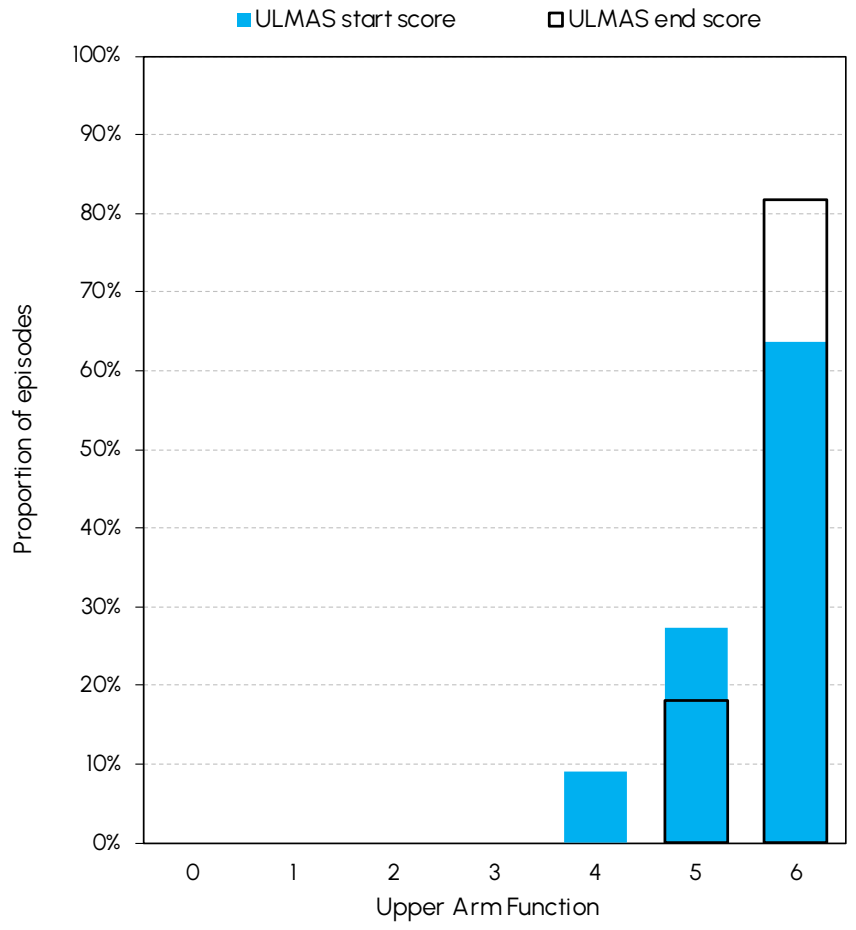


All Ambulatory 2024 (n=252)

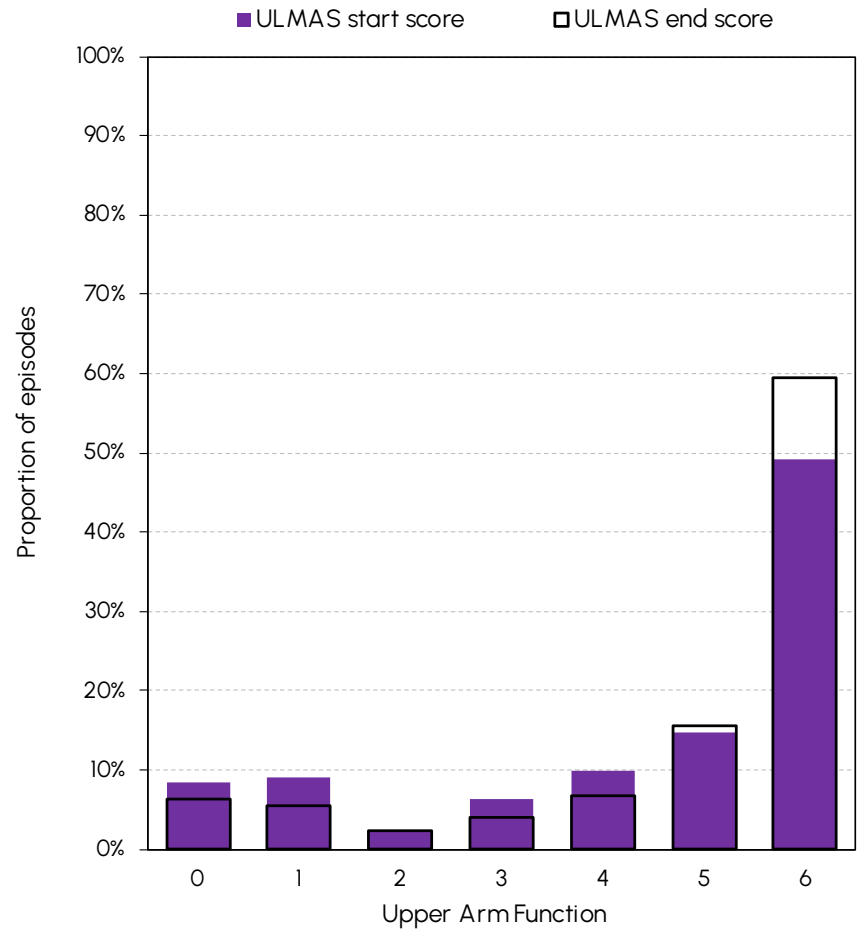


# ULMAS start and end total – Upper arm function

Your Service 2024 (n=11)

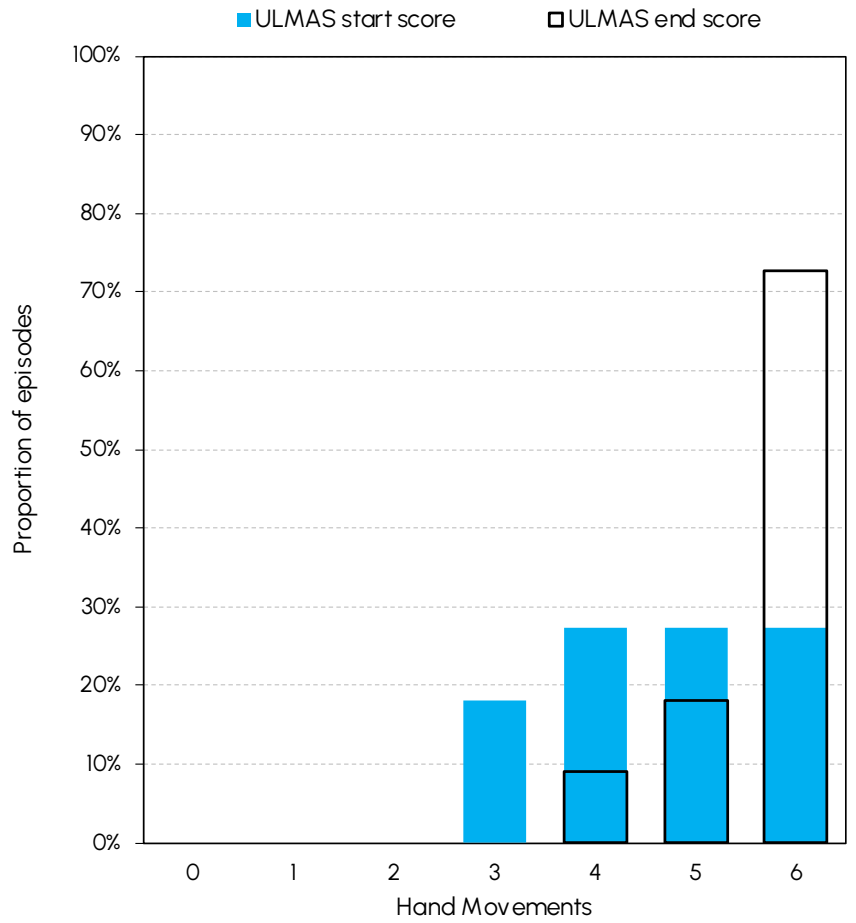


All Ambulatory 2024 (n=252)

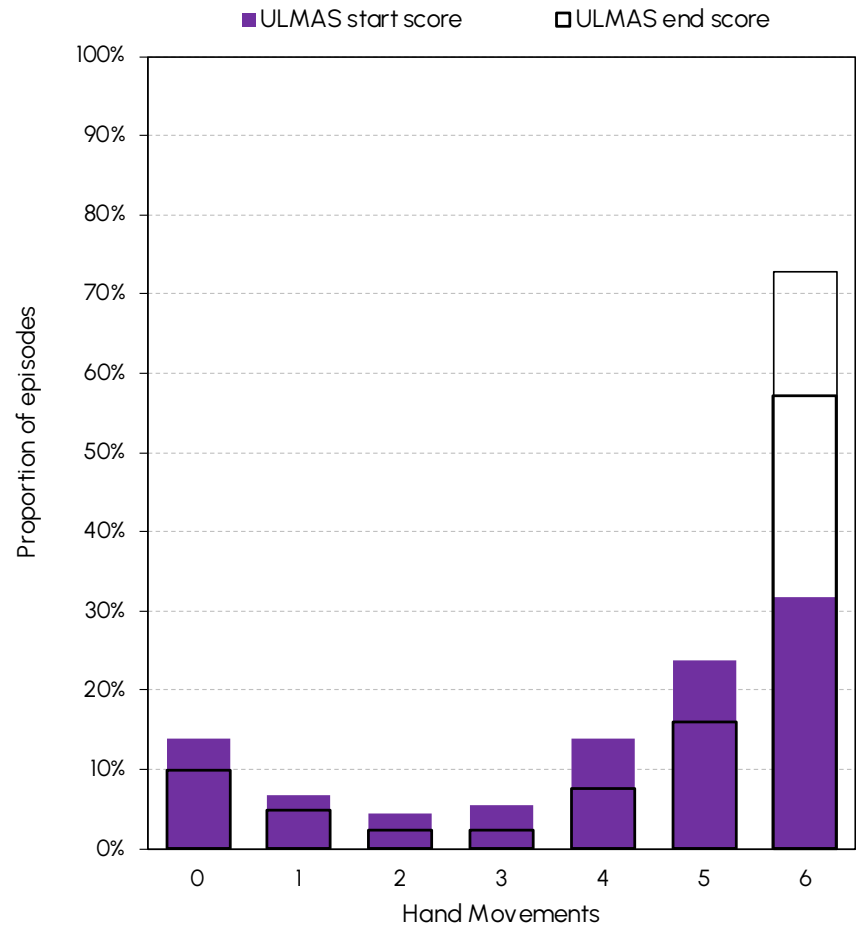


# ULMAS start and end total – Hand movements

Your Service 2024 (n=11)

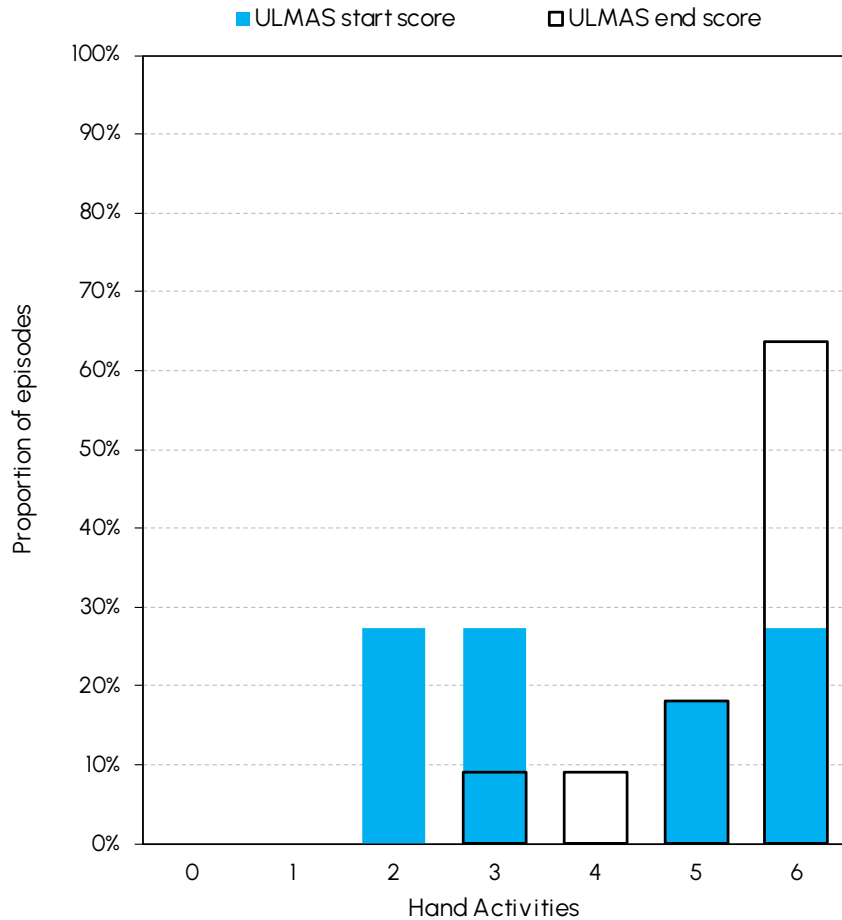


All Ambulatory 2024 (n=252)

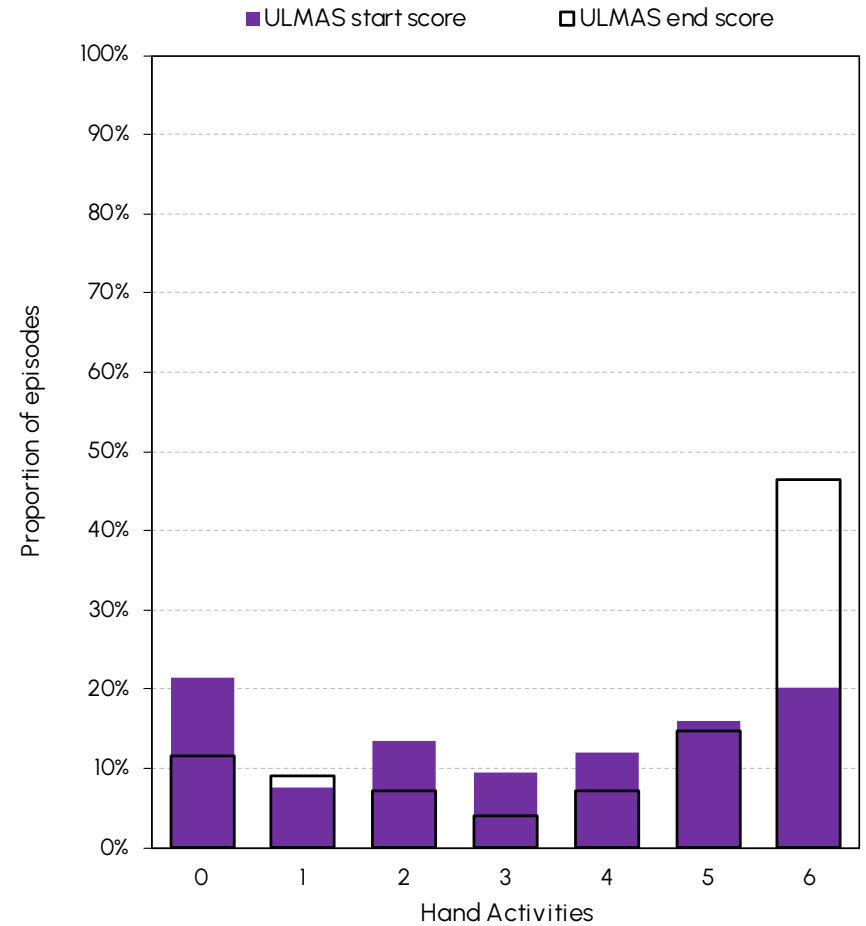


# ULMAS start and end total – Hand activities

Your Service 2024 (n=11)



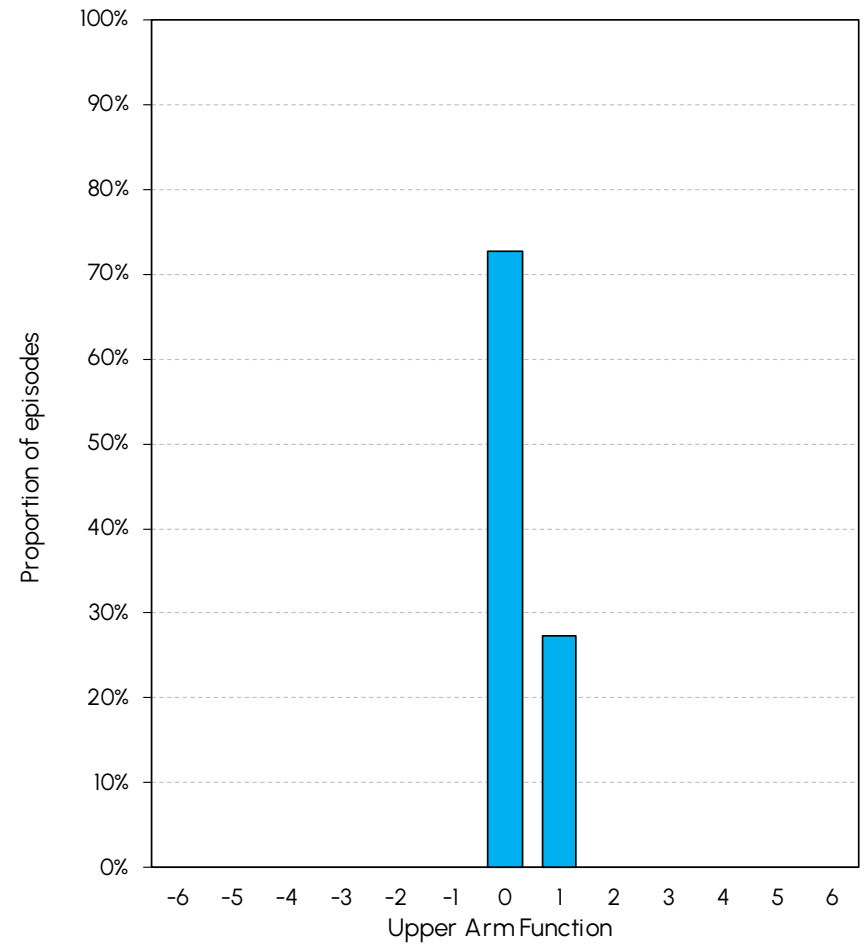
All Ambulatory 2024 (n=252)



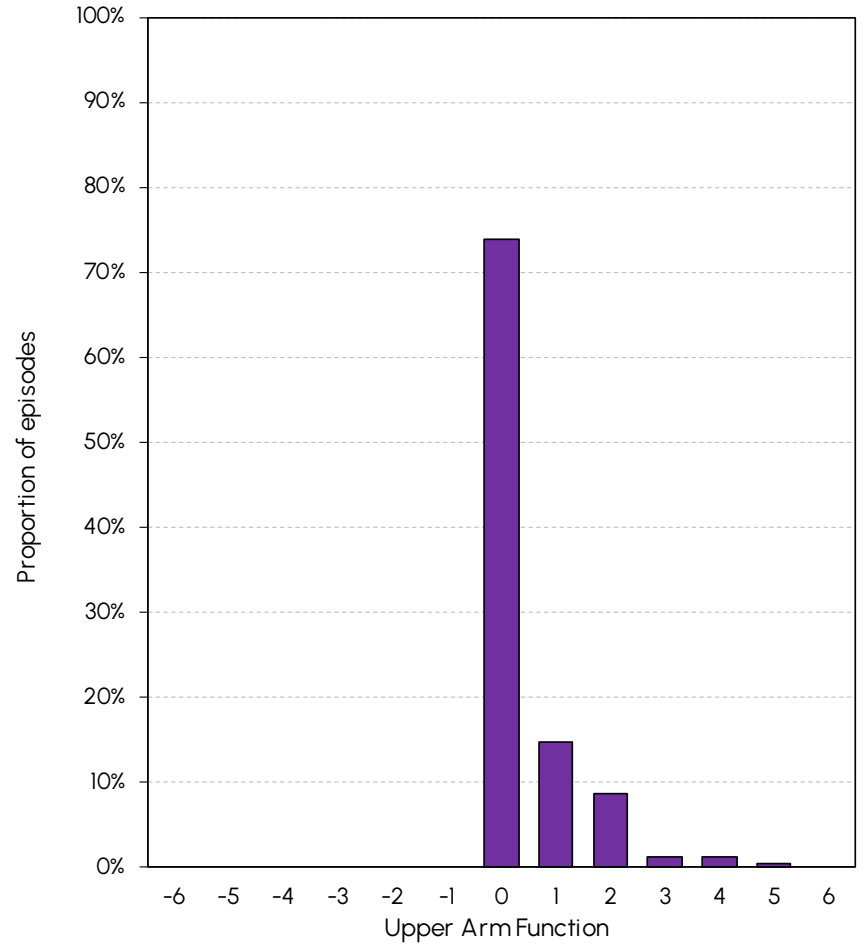


# Change in ULMAS score – Upper arm function

Your Service 2024 (n=11)



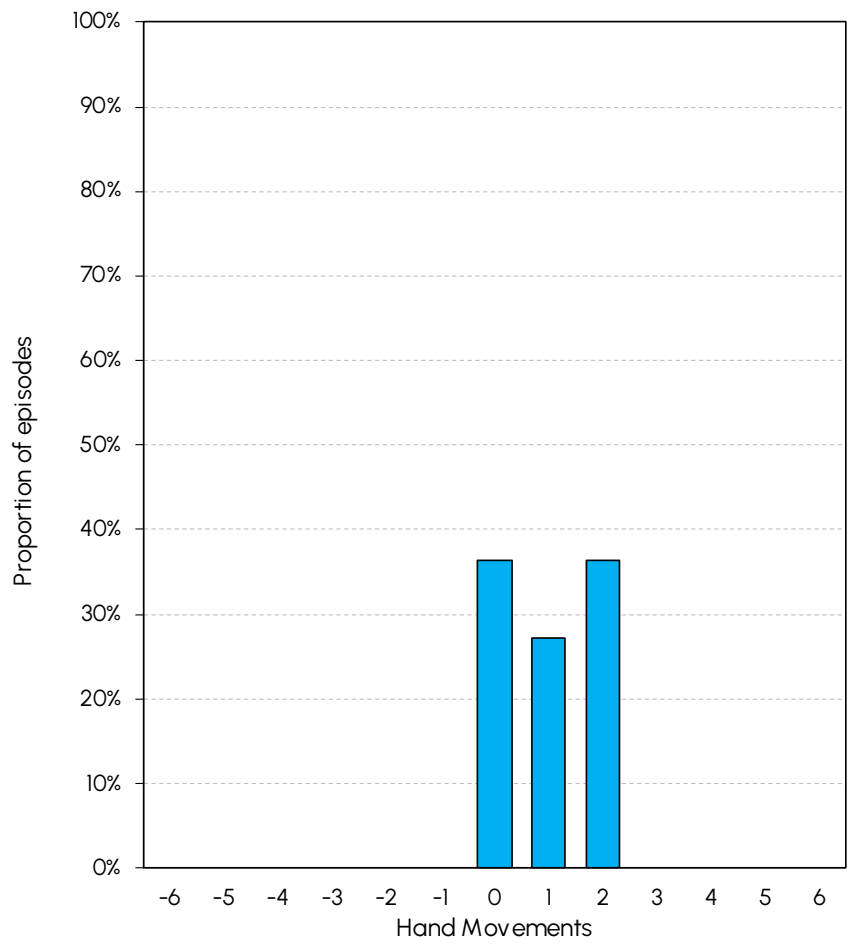
All Ambulatory 2024 (n=252)



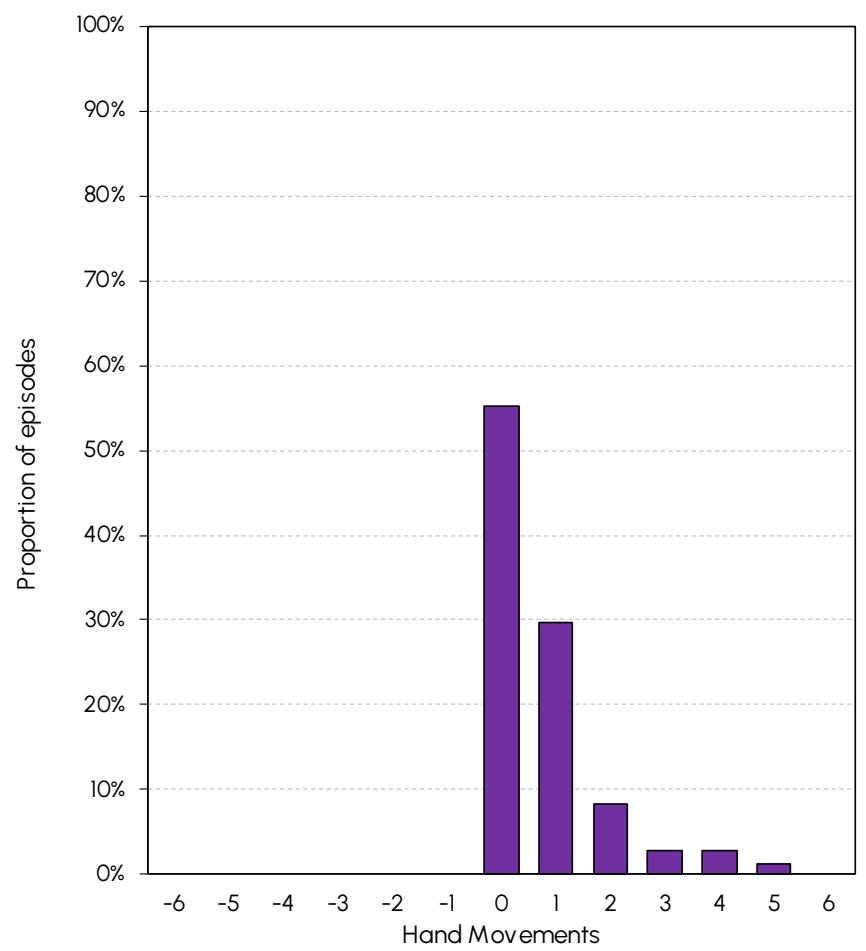
# Change in ULMAS score – Hand movements



Your Service 2024 (n=11)



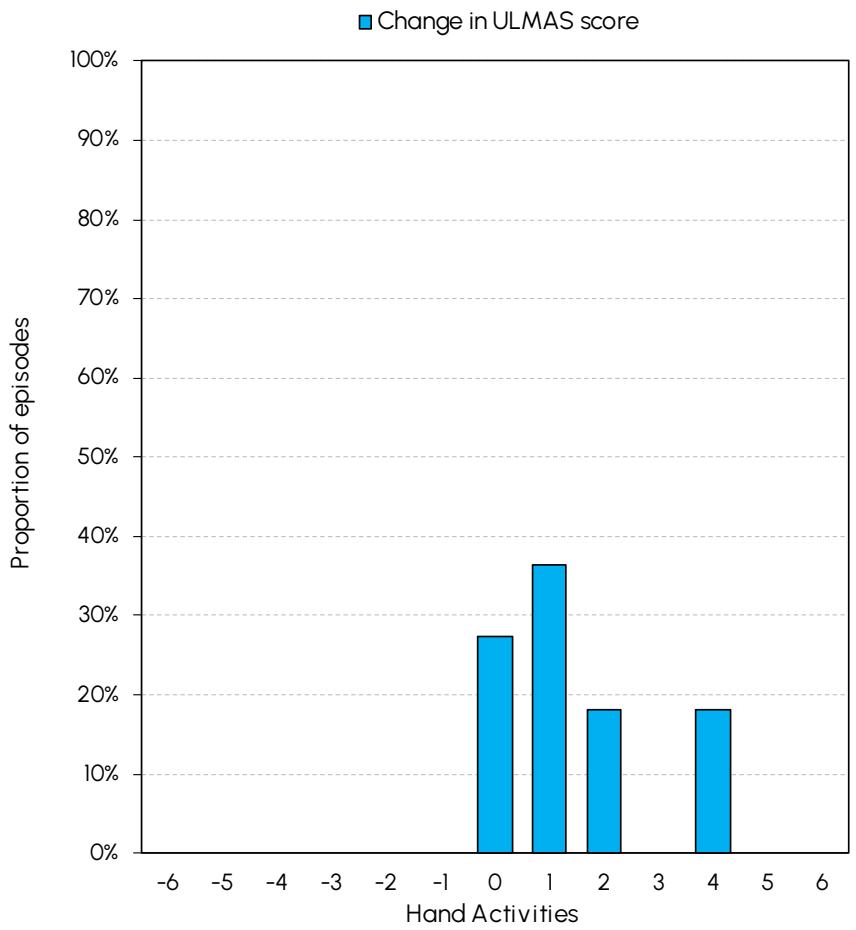
All Ambulatory 2024 (n=252)



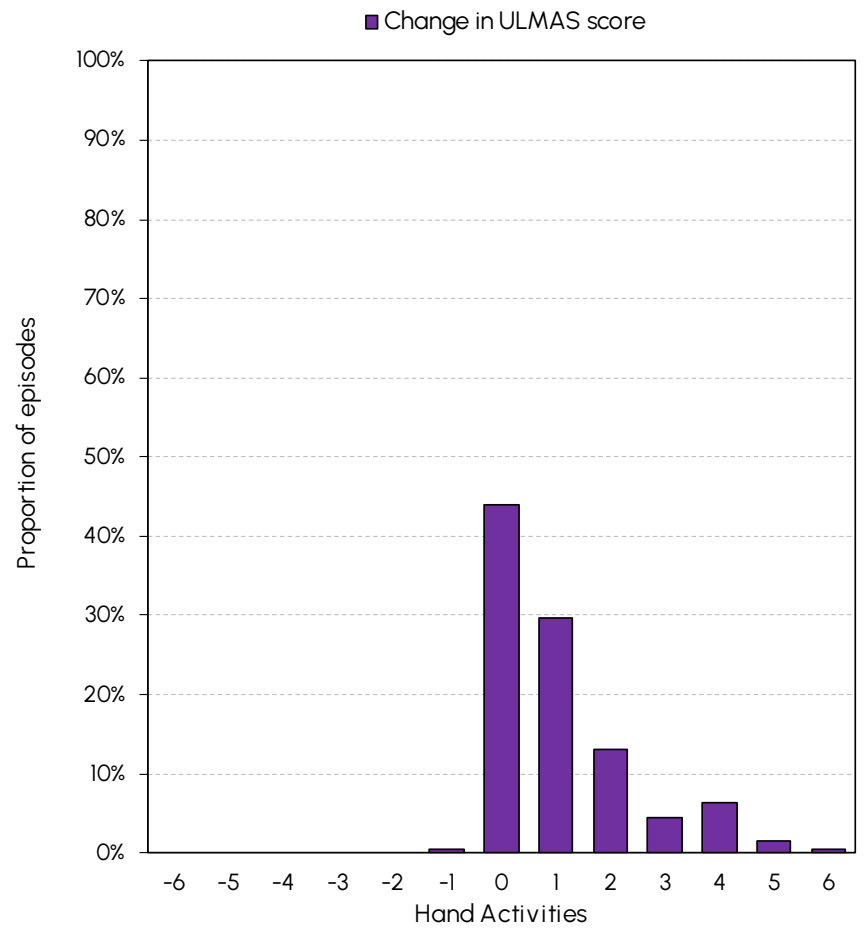
# Change in ULMAS score – Hand activities



Your Service 2024 (n=11)

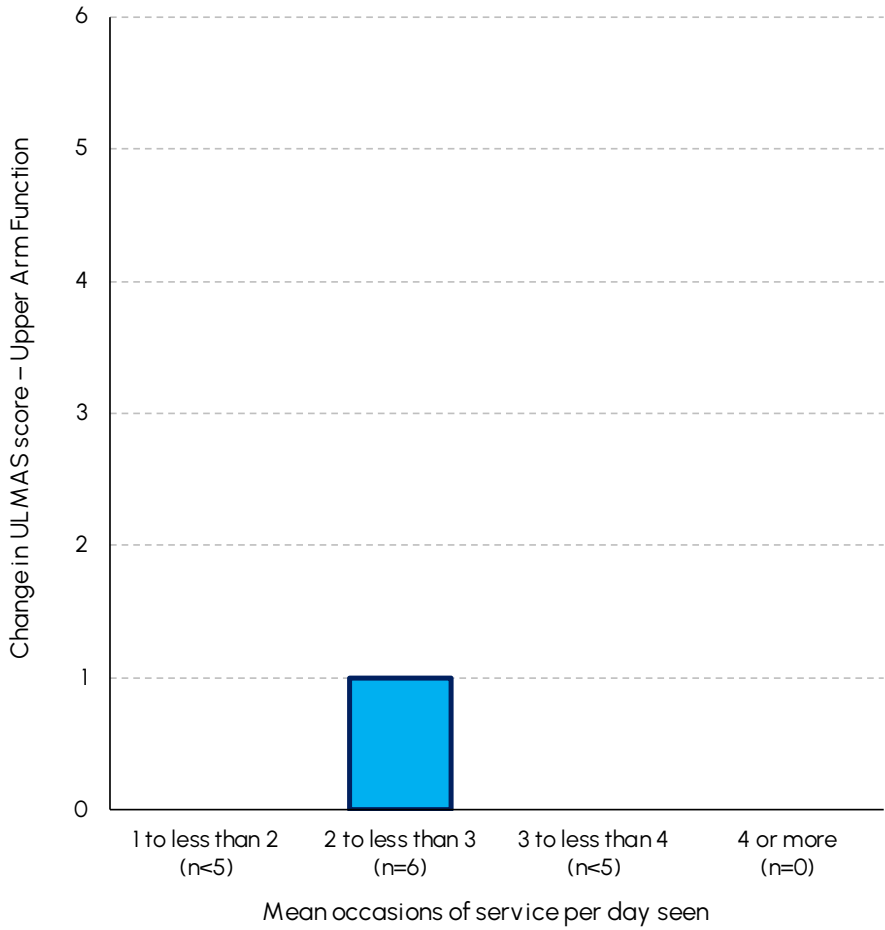


All Ambulatory 2024 (n=252)

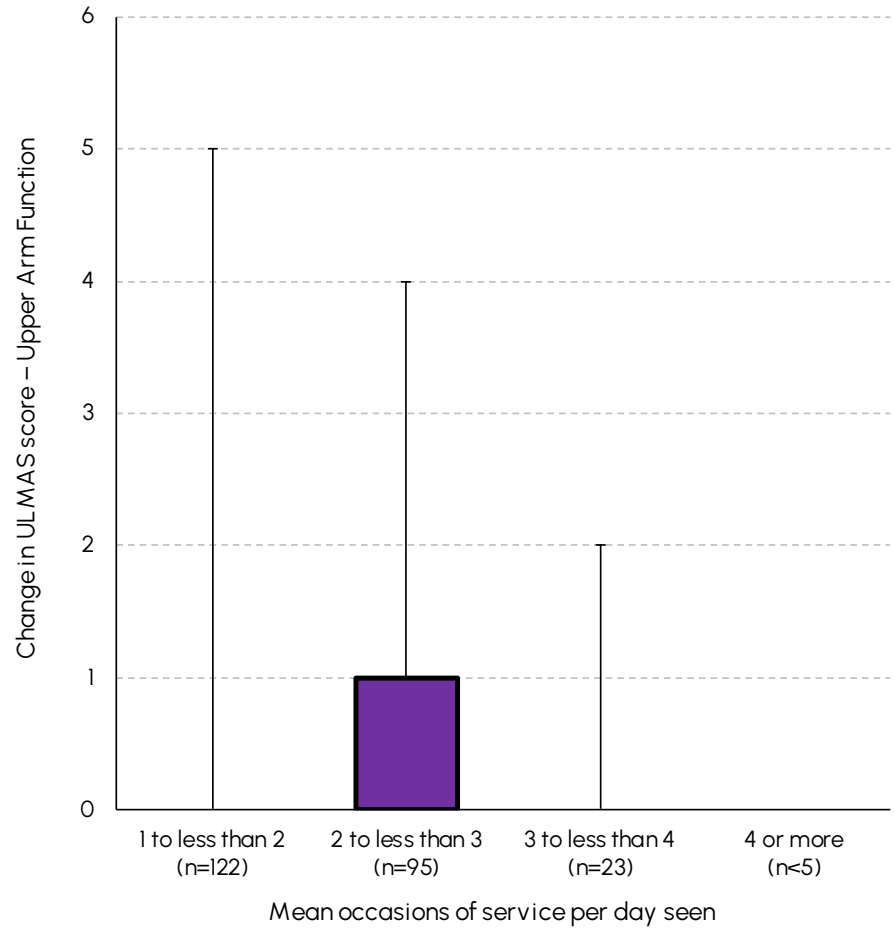


# Change in ULMAS score by OOS/day seen – Upper arm function

Your Service 2024



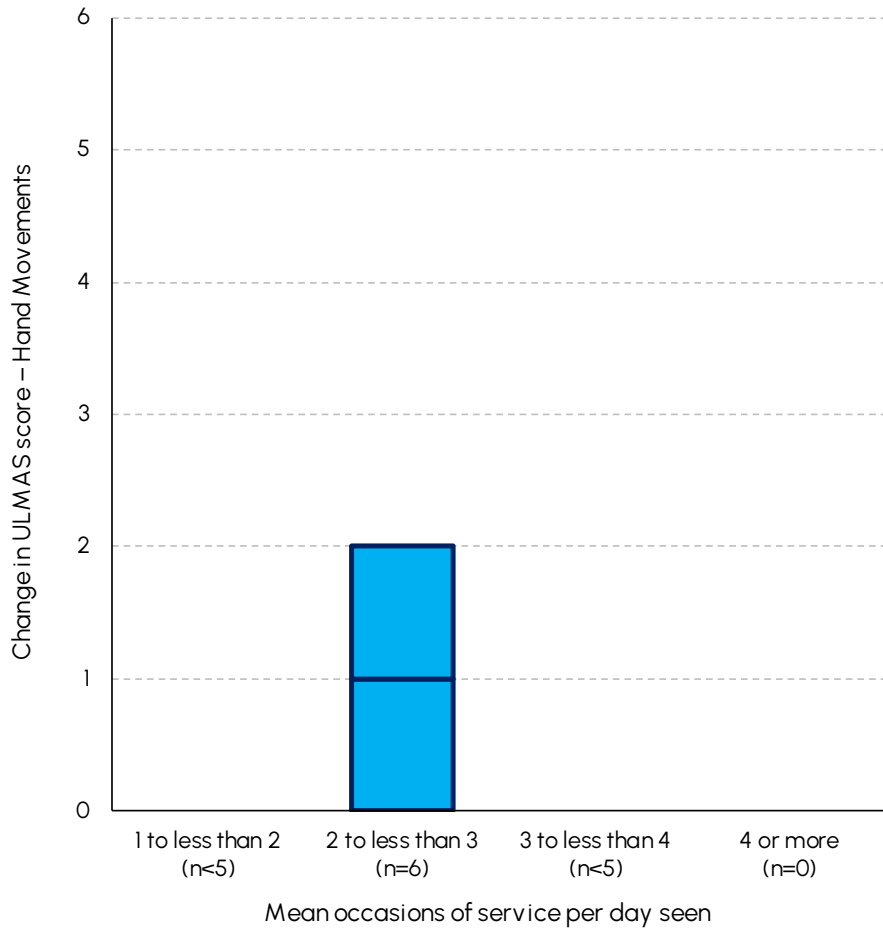
All Ambulatory 2024



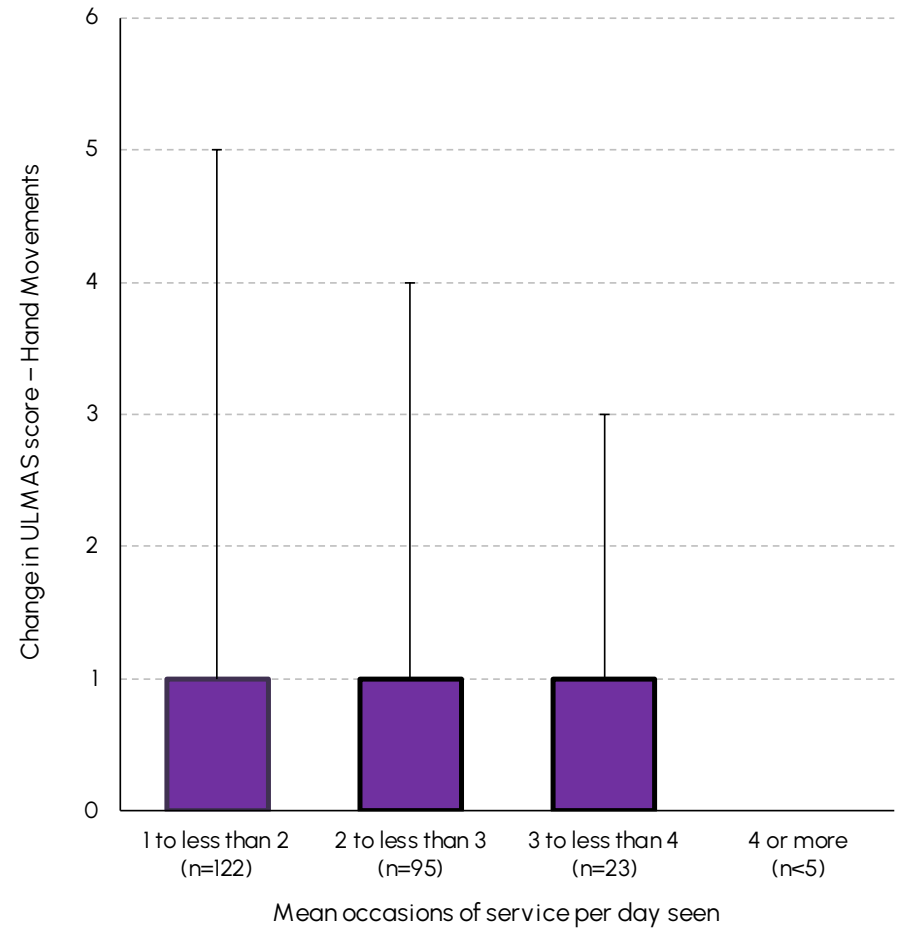
NOTE: To understand how to interpret these figures please refer to Appendix 3

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

Your Service 2024



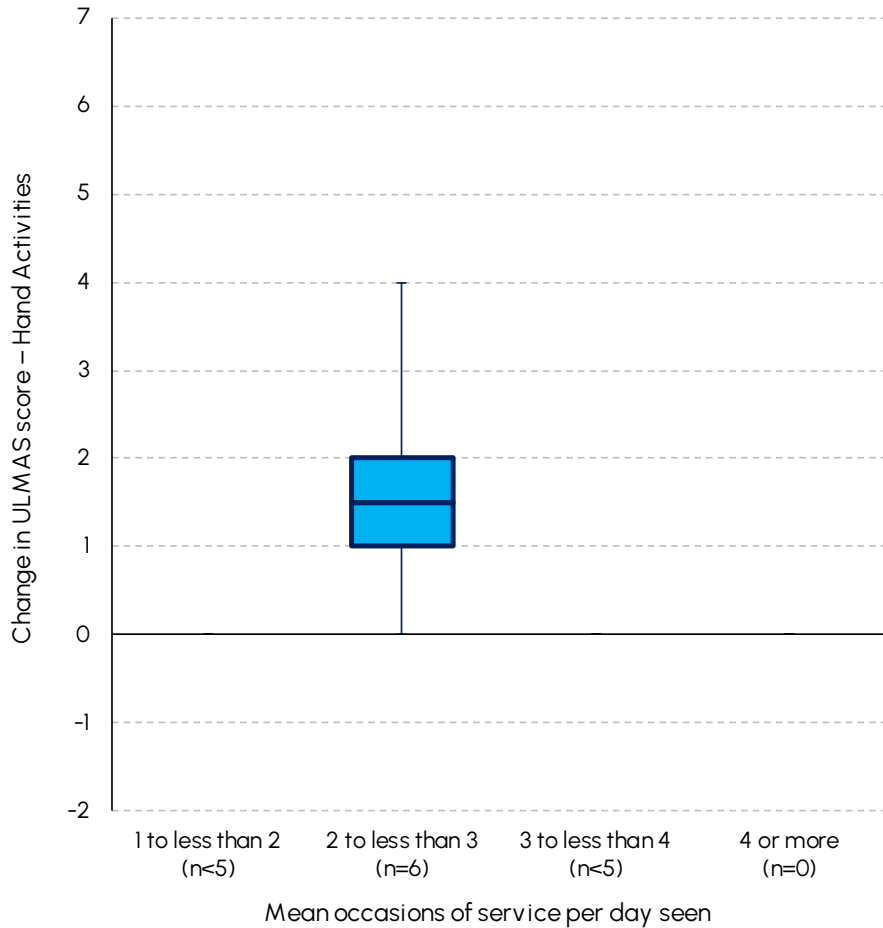
All Ambulatory 2024



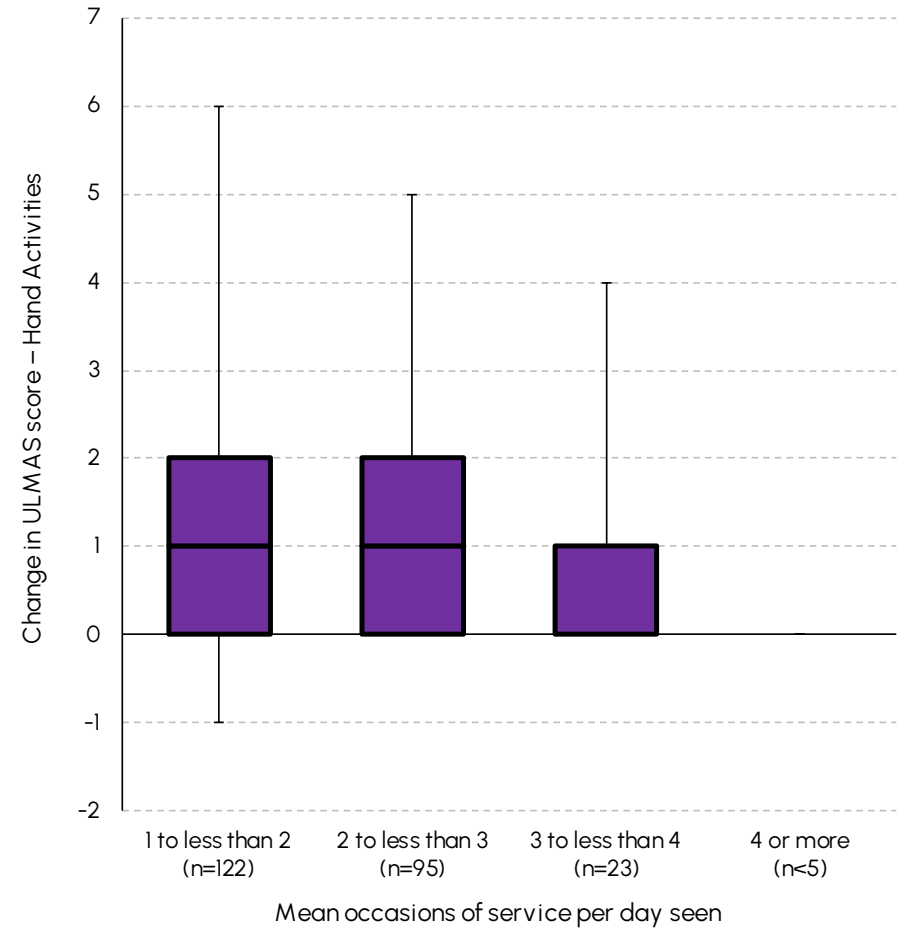
NOTE: To understand how to interpret these figures please refer to Appendix 3

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

Your Service 2024



All Ambulatory 2024

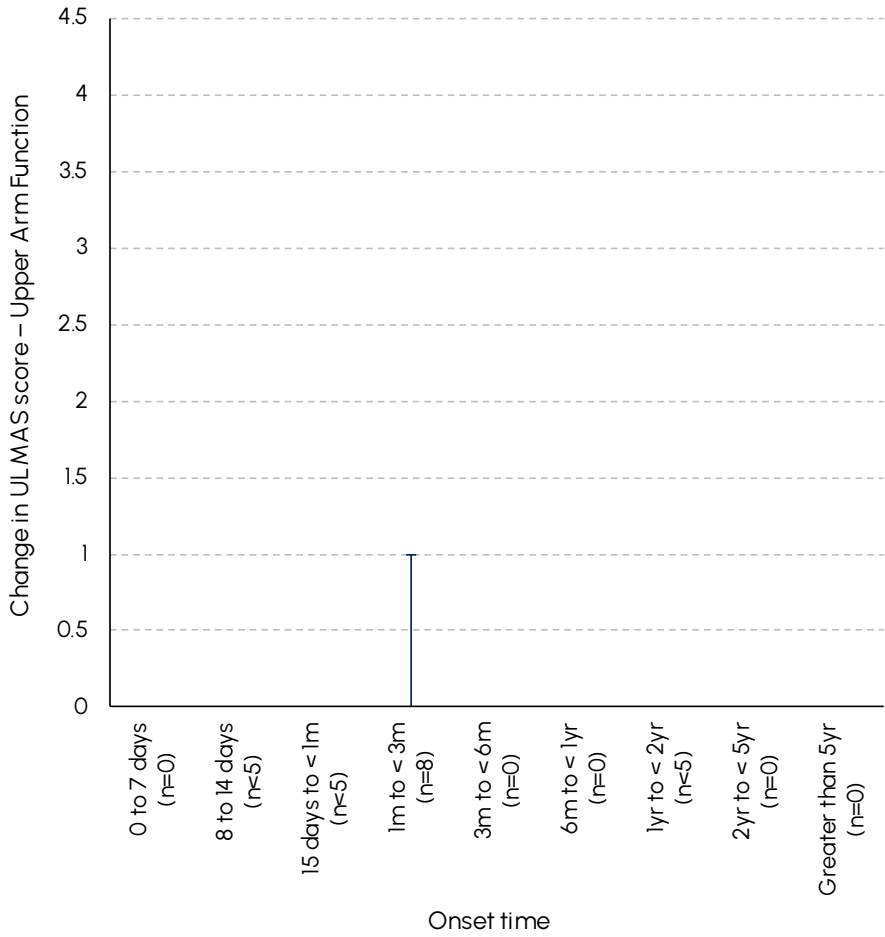


NOTE: To understand how to interpret these figures please refer to Appendix 3

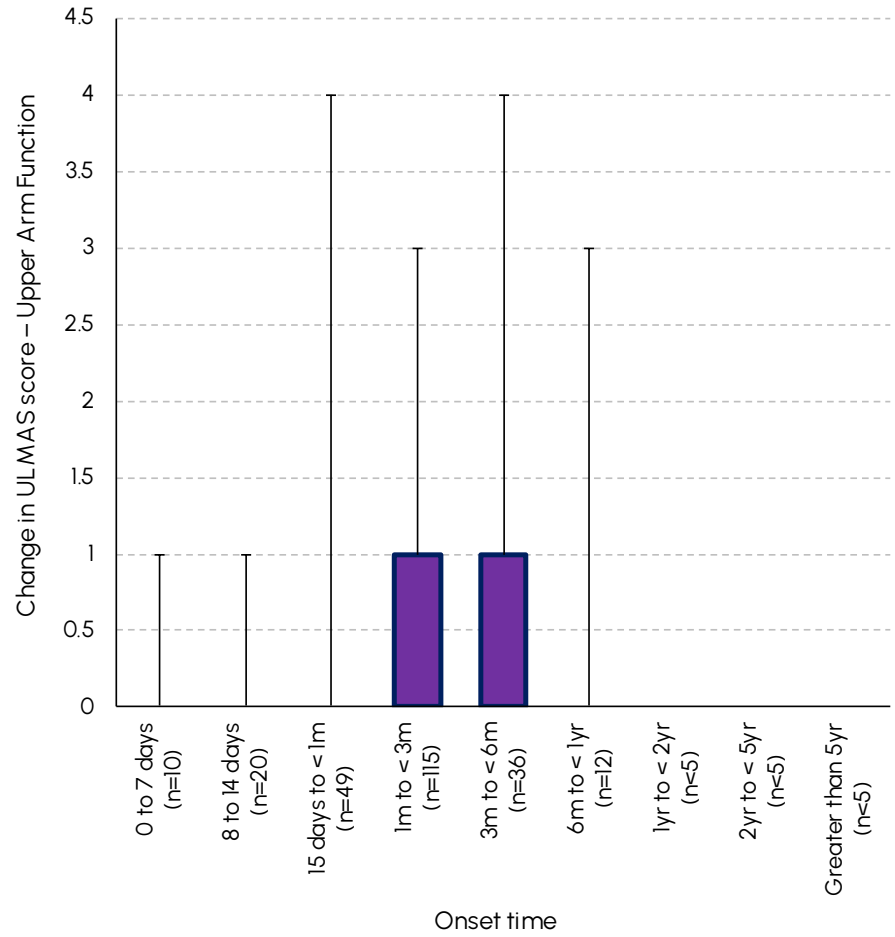
# Change in ULMAS score by onset time – Upper arm function



Your Service 2024



All Ambulatory 2024

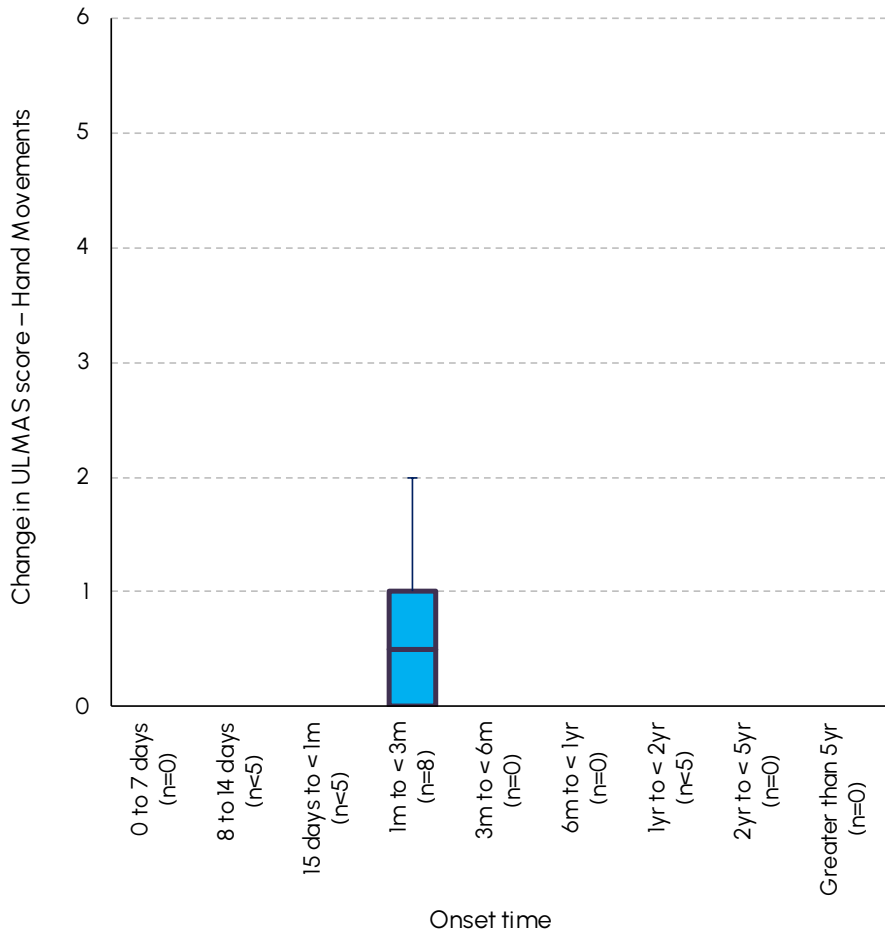


NOTE: To understand how to interpret these figures please refer to Appendix 3

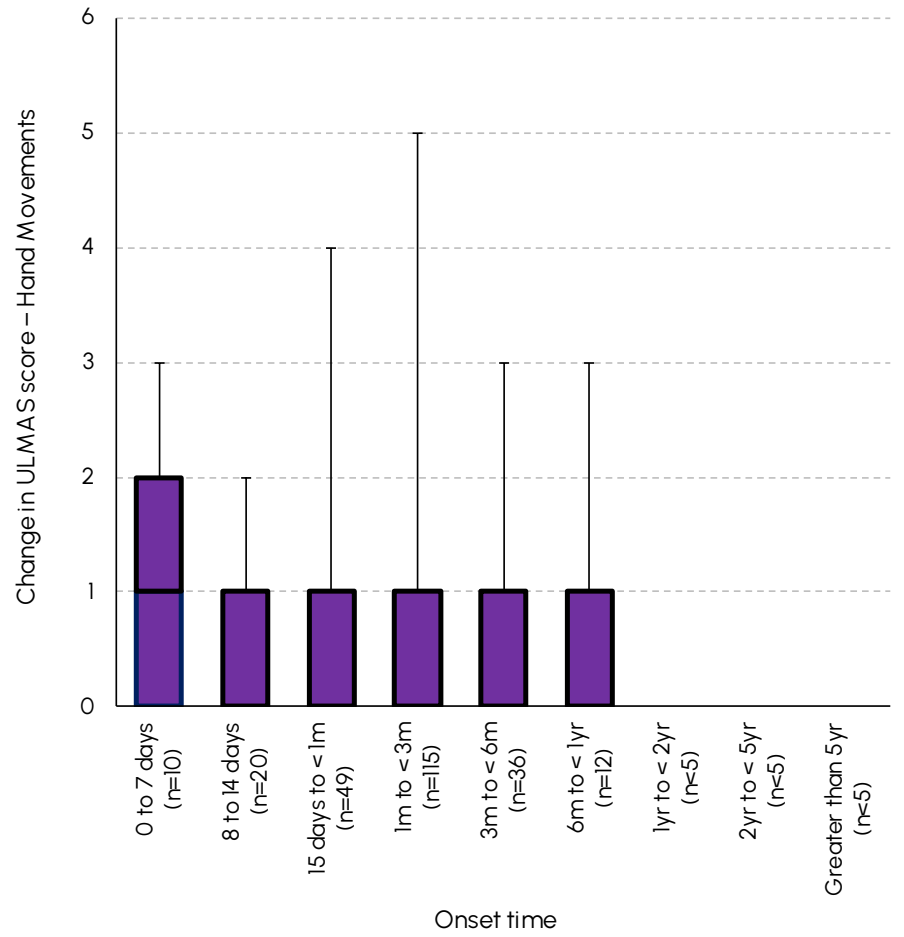
# Change in ULMAS score by onset time – Hand Movements



Your Service 2024



All Ambulatory 2024

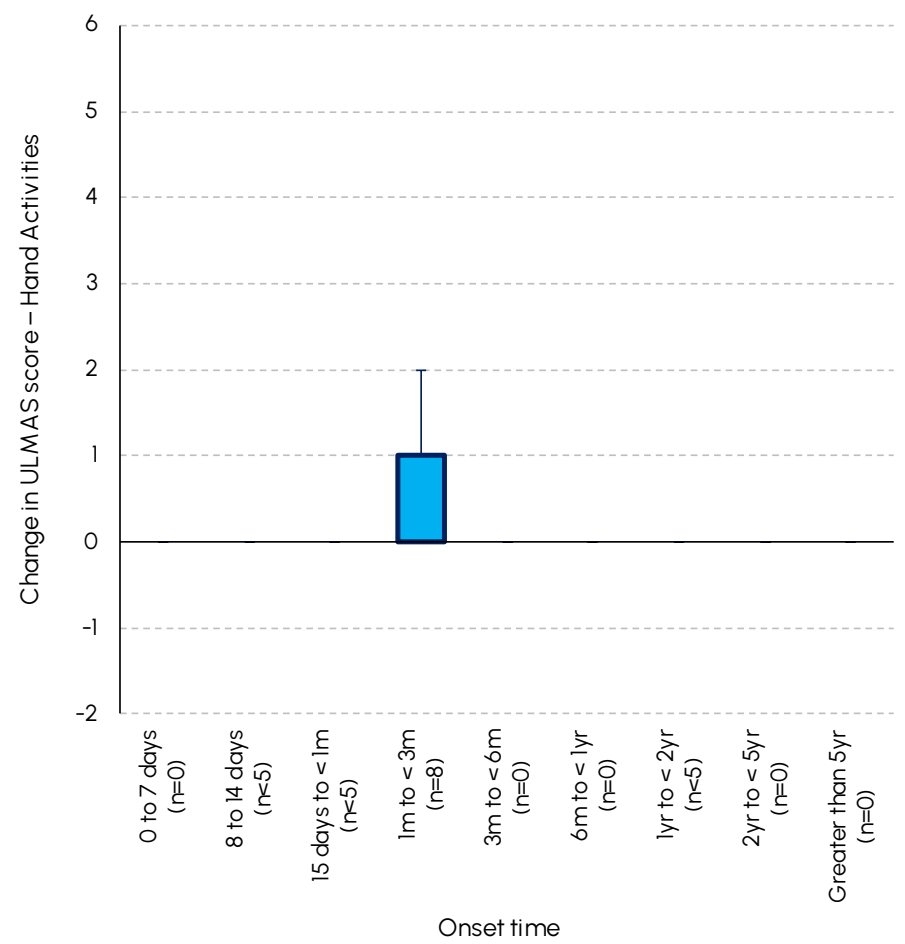


NOTE: To understand how to interpret these figures please refer to Appendix 3

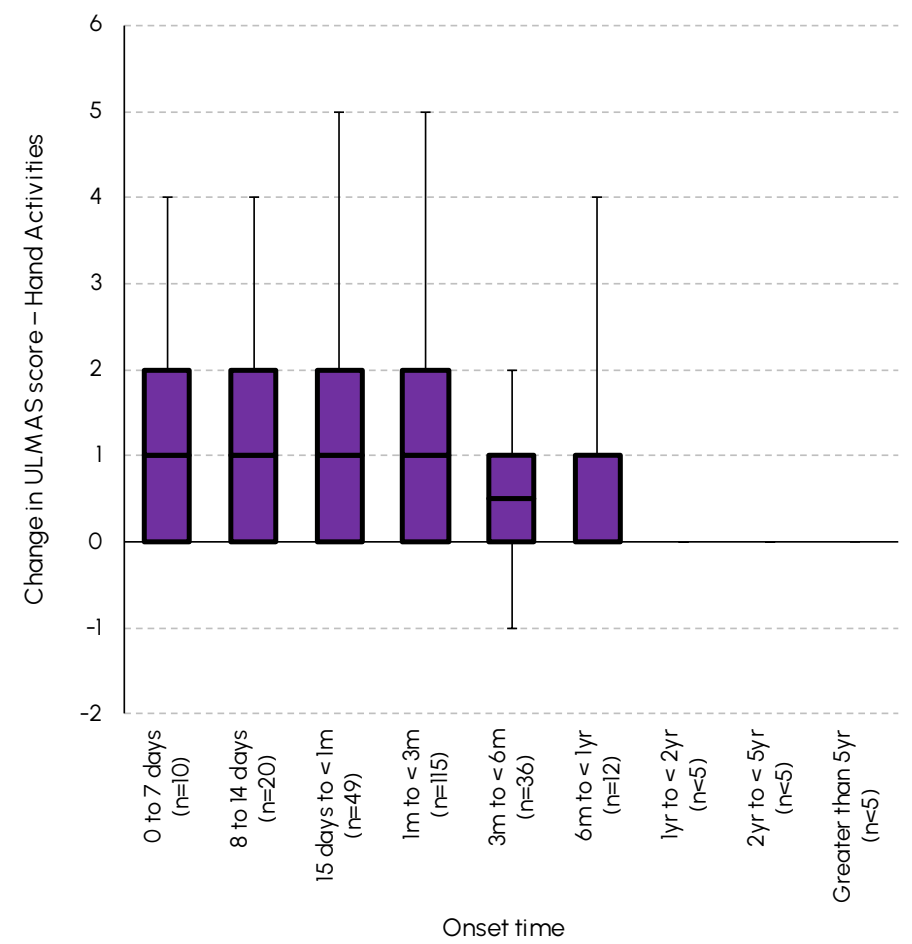


# Change in ULMAS score by onset time – Hand activities

Your Service 2024



All Ambulatory 2024



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

# Timed 10 metre walk test



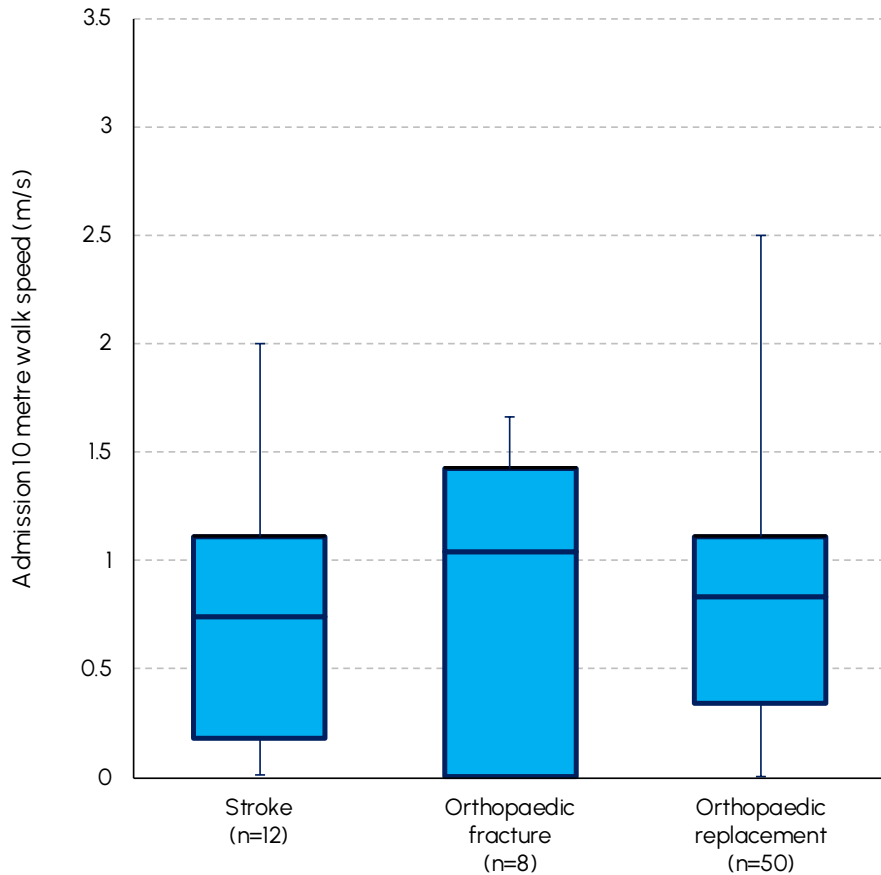
This data item is collected in addition to the Australian Modified Lawton's IADL Scale for patients who may have gait impairment as a result of:

- 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.

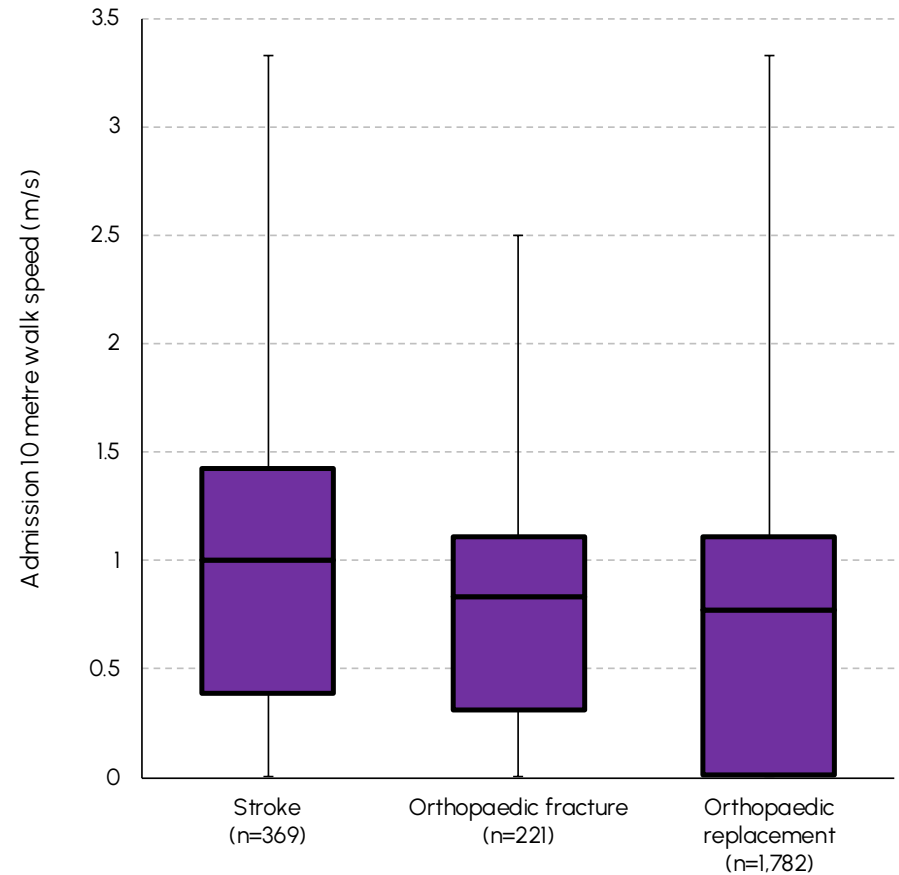
# Admission timed 10 metre walk test speed by impairment

Your Service 2024



Note: All admissions.

All Ambulatory 2024

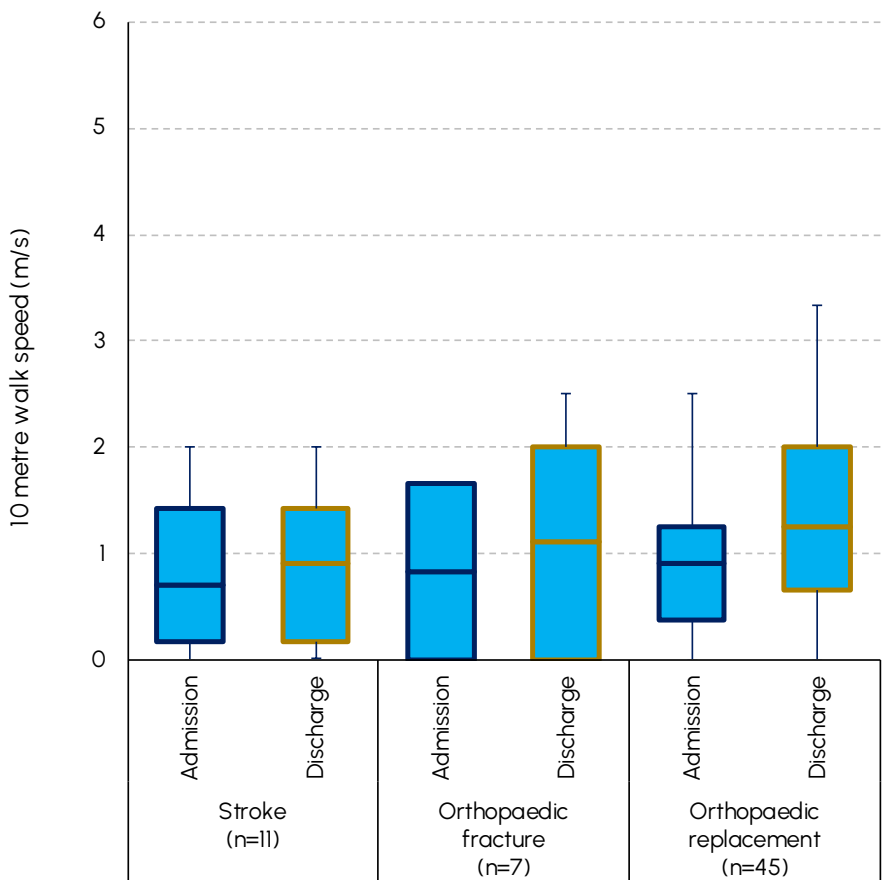


Note: All admissions.

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

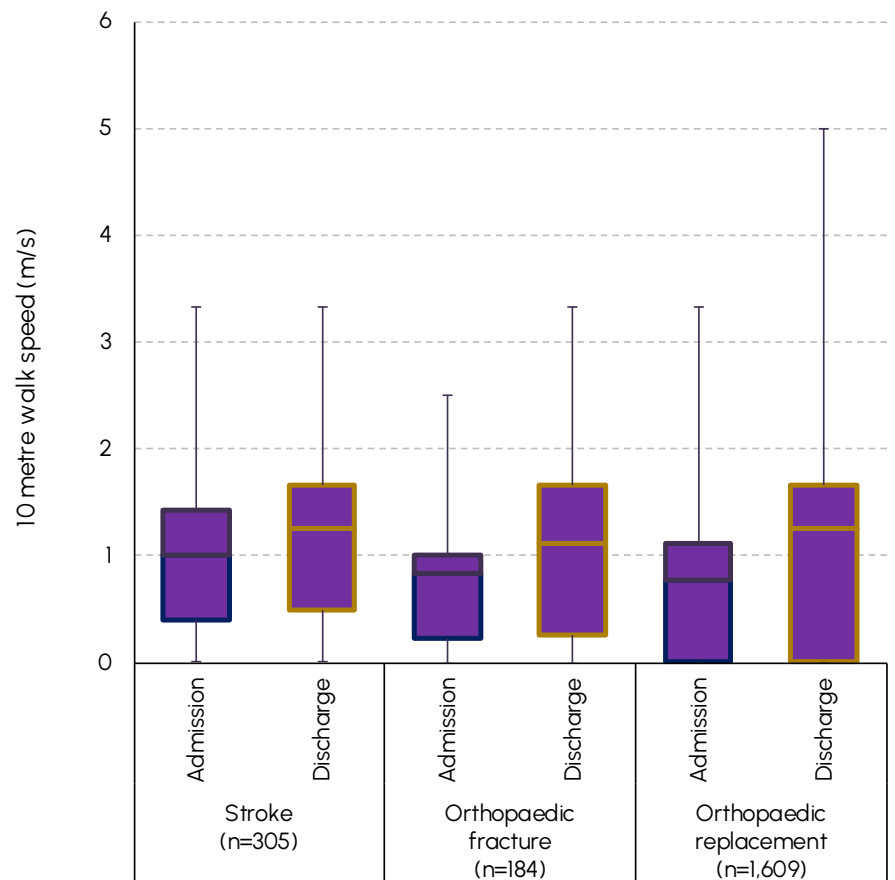
# Admission and discharge timed 10 metre walk test speed by impairment

Your Service 2024



Note: Completed episodes only.

All Ambulatory 2024

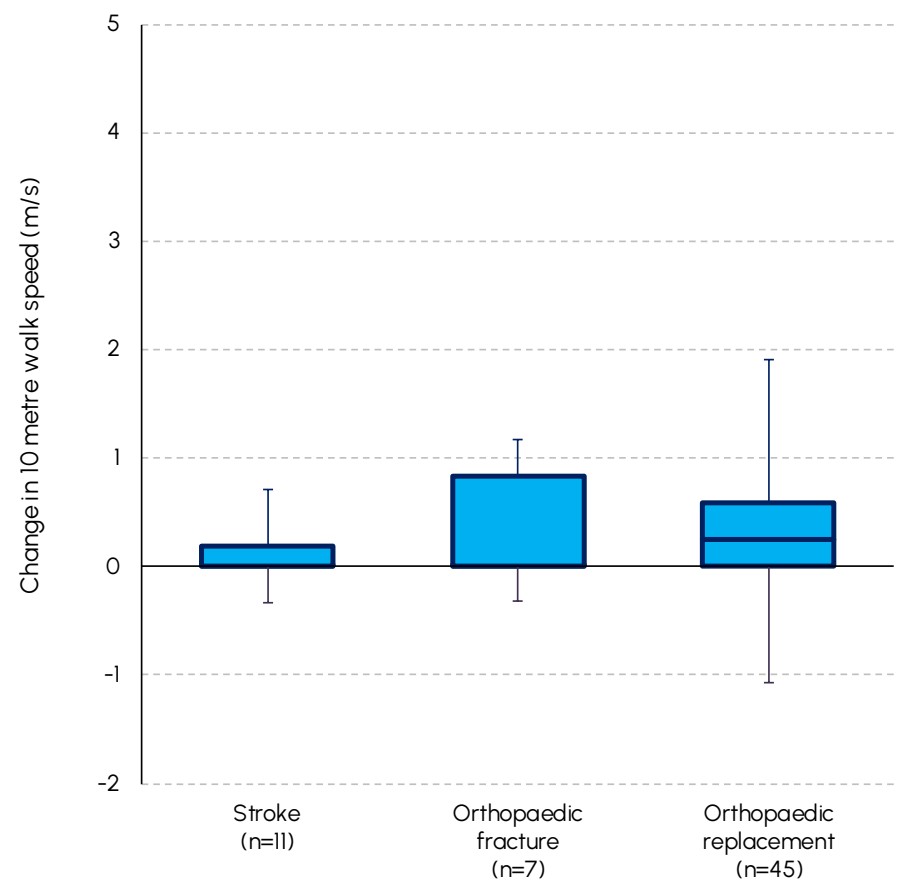


Note: Completed episodes only.

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

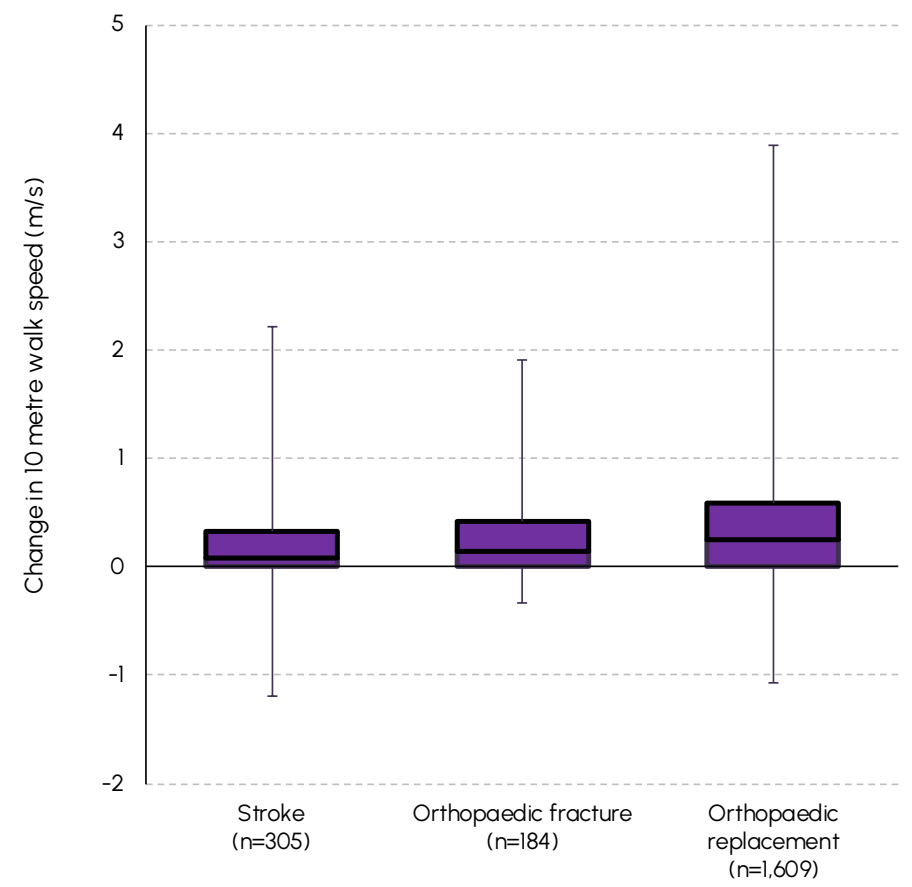
# Change in 10 metre walk speed by impairment

Your Service 2024



Note: Completed episodes only.

All Ambulatory 2024

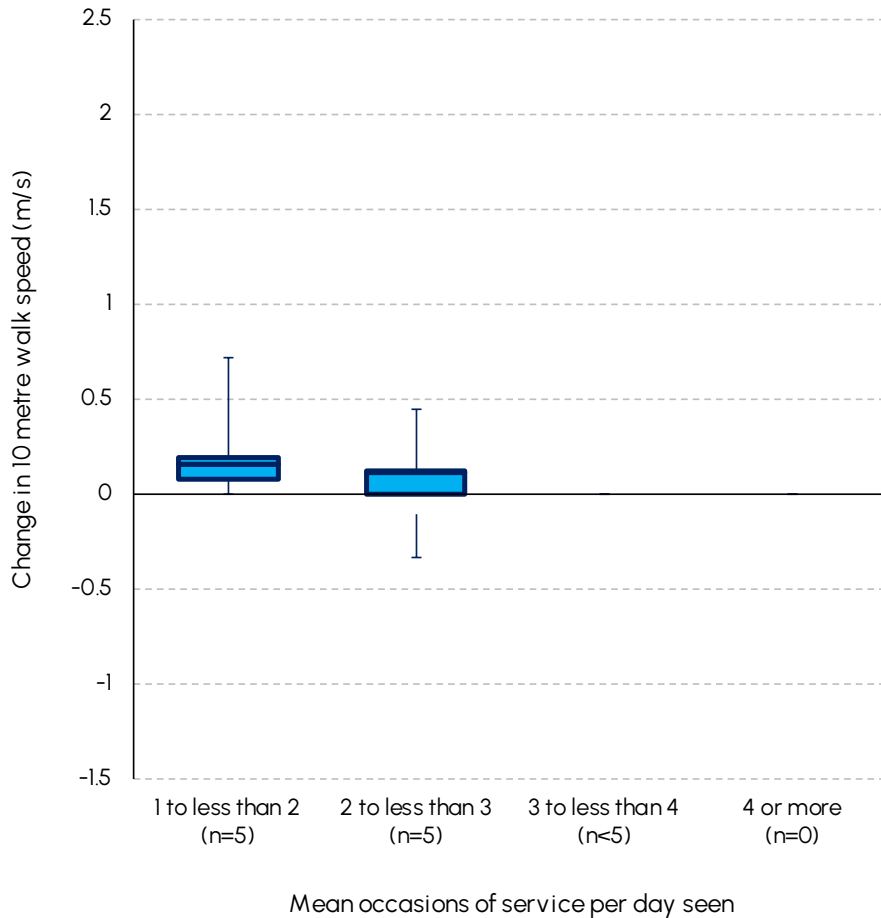


Note: Completed episodes only.

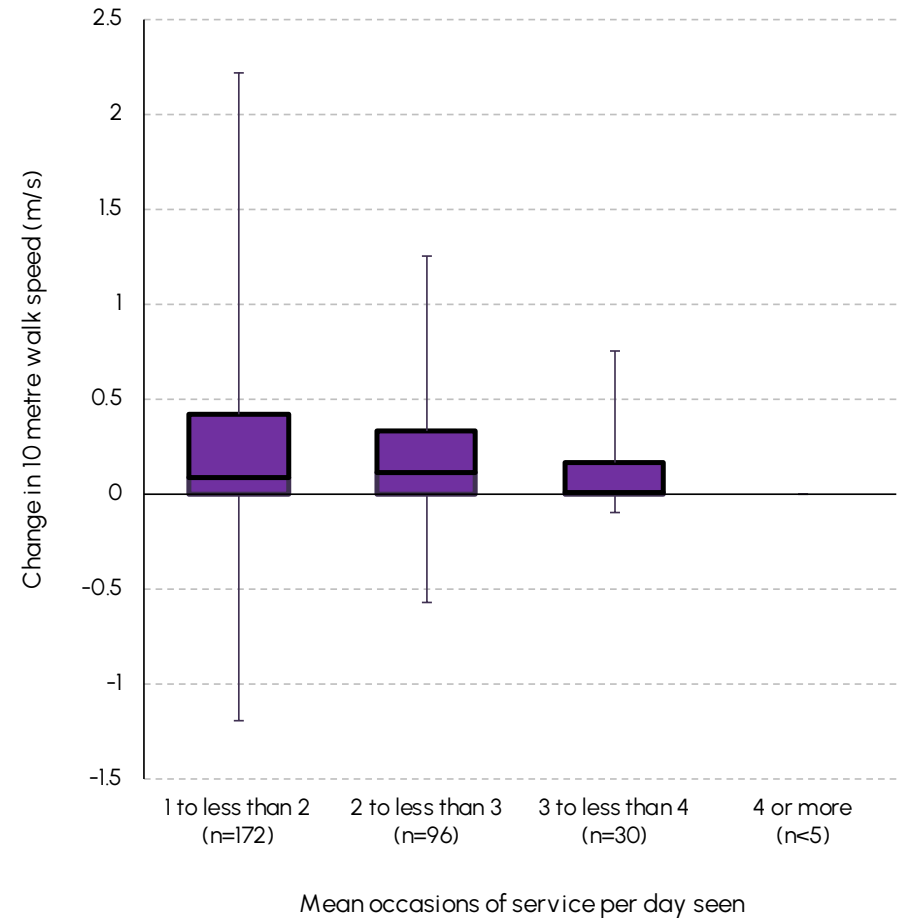
NOTE: To understand how to interpret these figures please refer to Appendix 3

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

Your Service 2024



All Ambulatory 2024

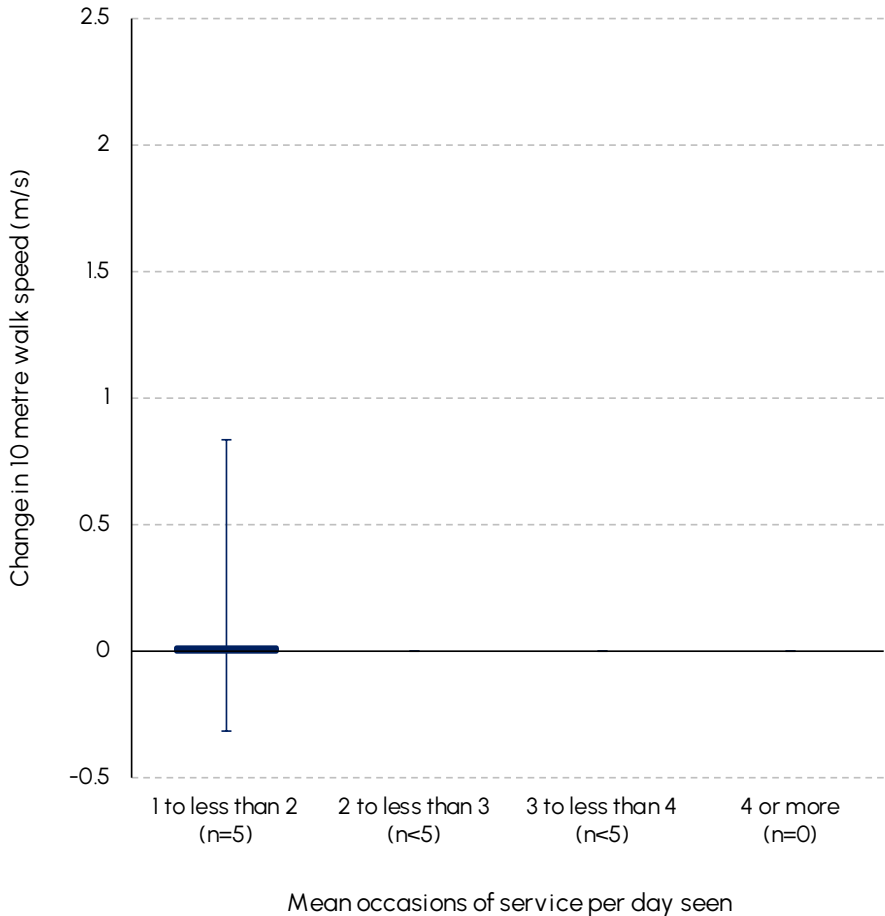


NOTE: To understand how to interpret these figures please refer to Appendix 3

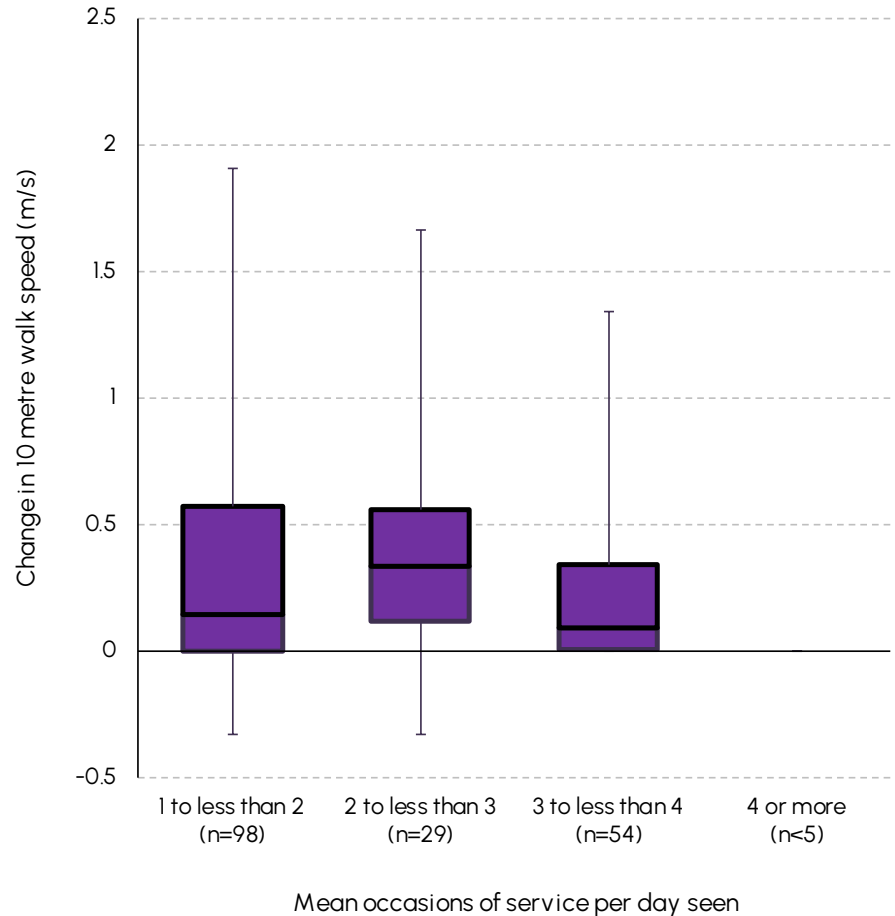
# Change in 10 metre walk speed by OOS/day seen – Orthopaedic fractures



Your Service 2024



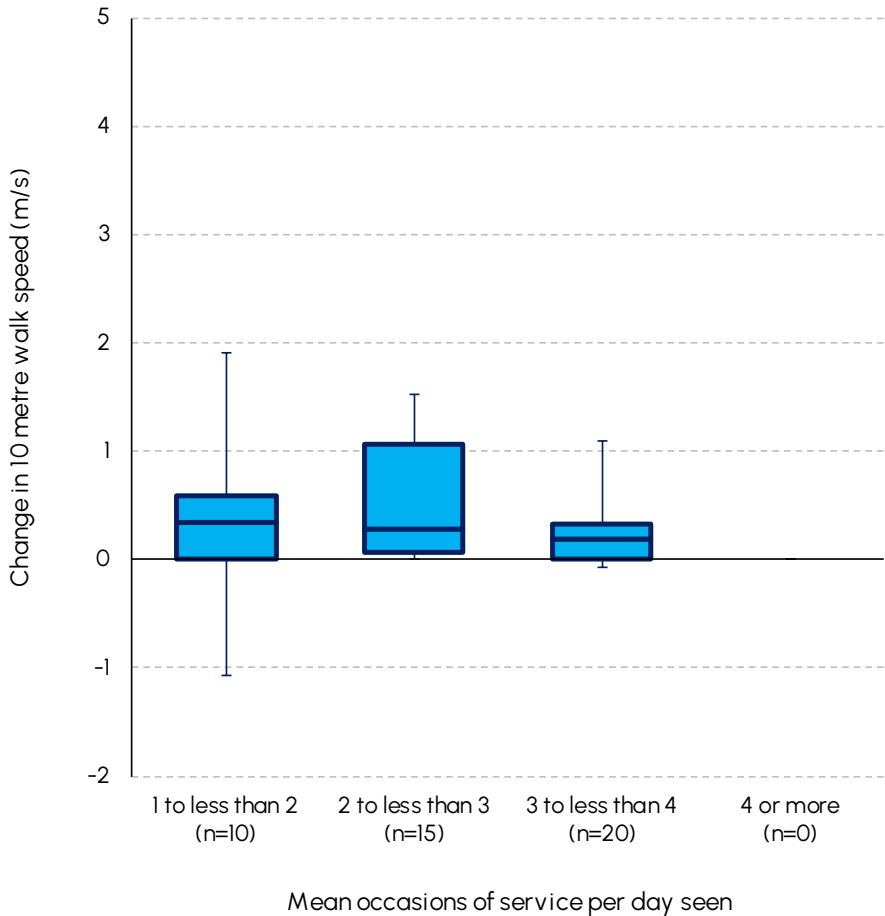
All Ambulatory 2024



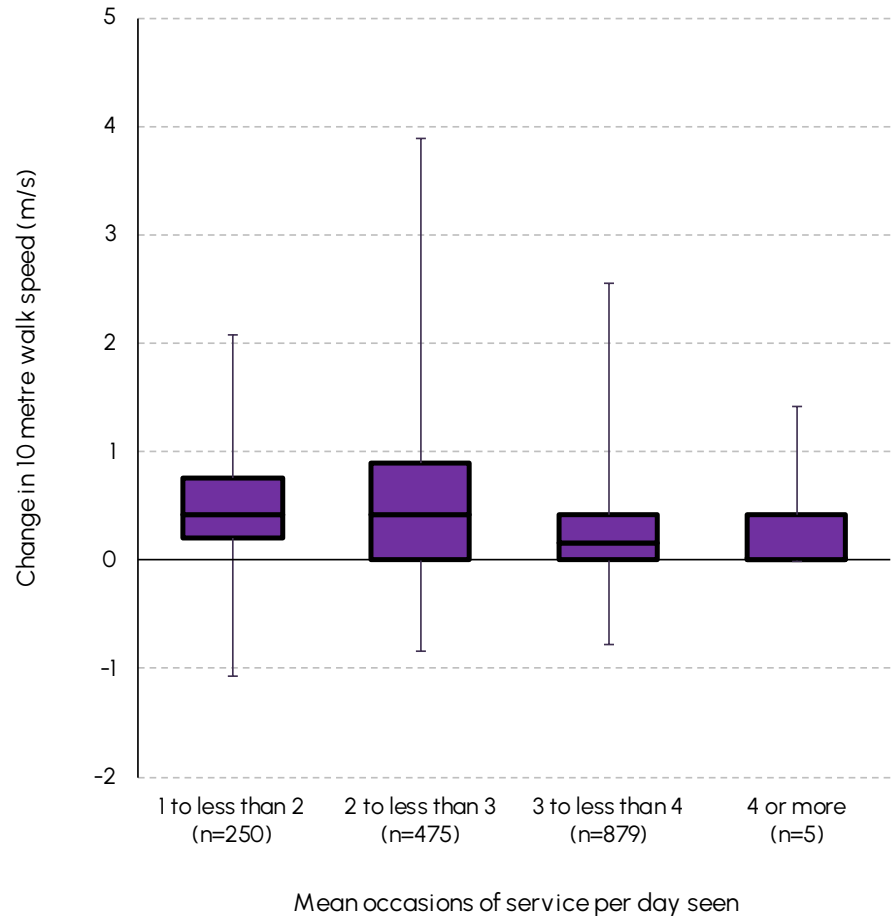
NOTE: To understand how to interpret these figures please refer to Appendix 3

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

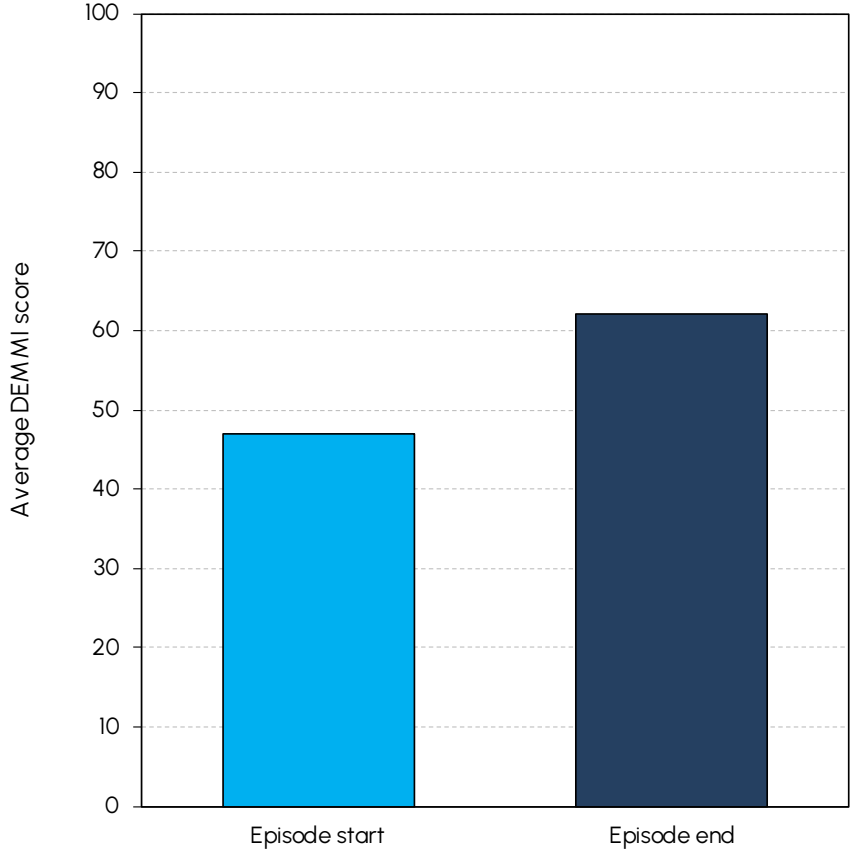
- 16.1 - Reconditioning following surgery
- 16.2 - Reconditioning following medical illness
- 16.3 - Cancer rehabilitation

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

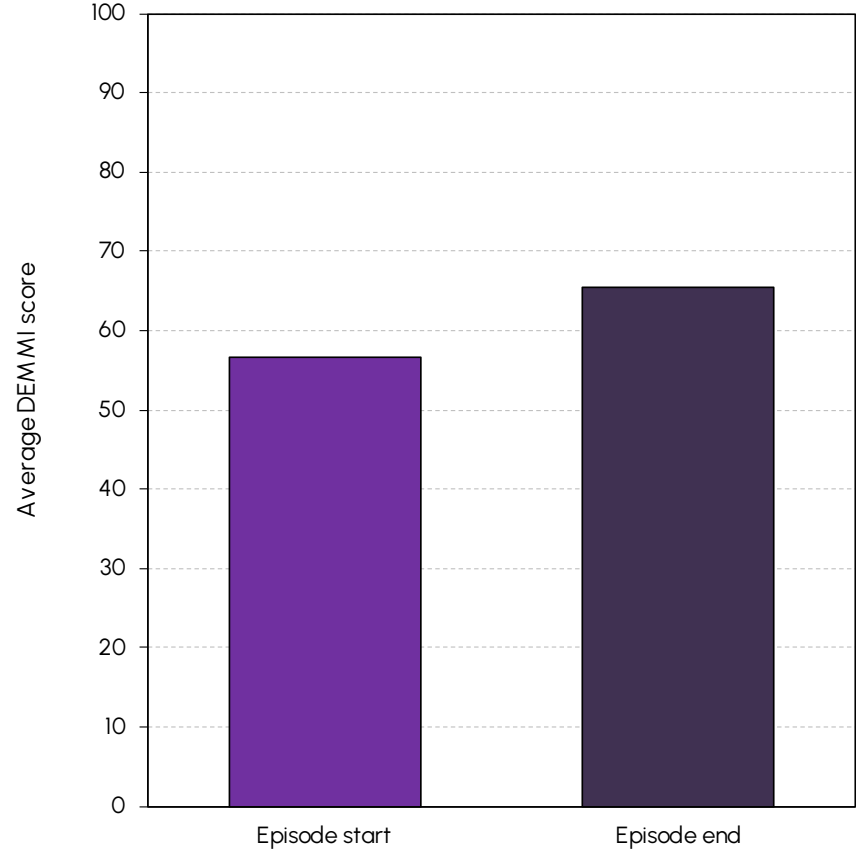
# Average DEMMI start and end score



Your Service 2024 (n=14)

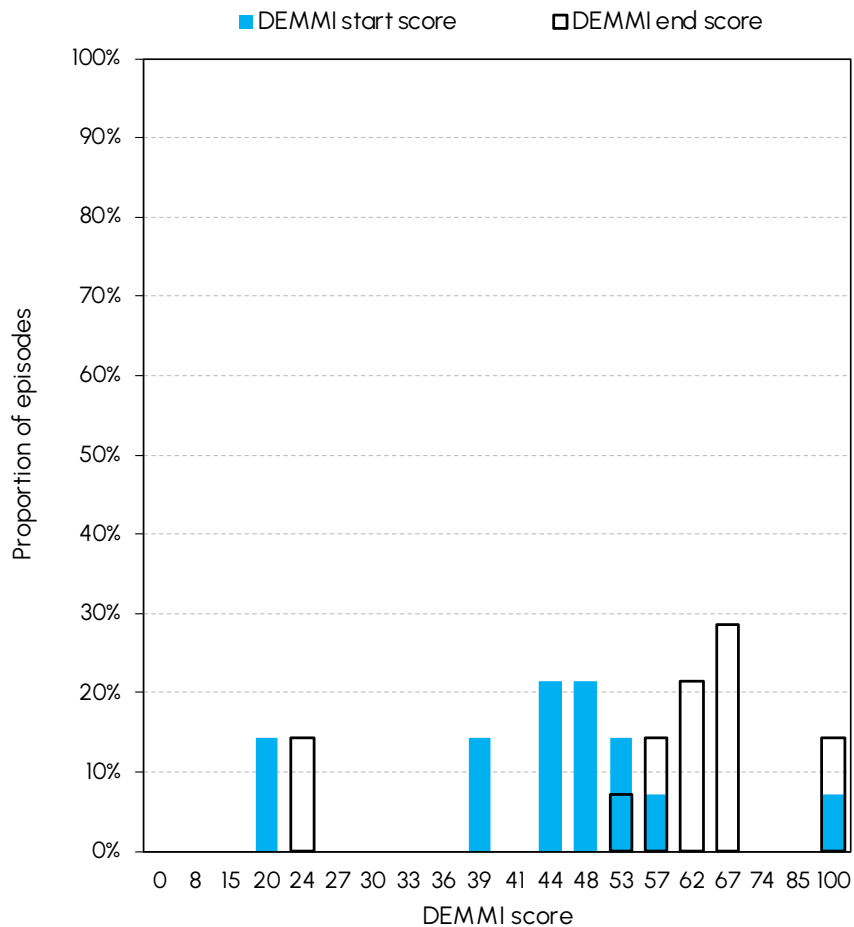


All Ambulatory 2024 (n=424)

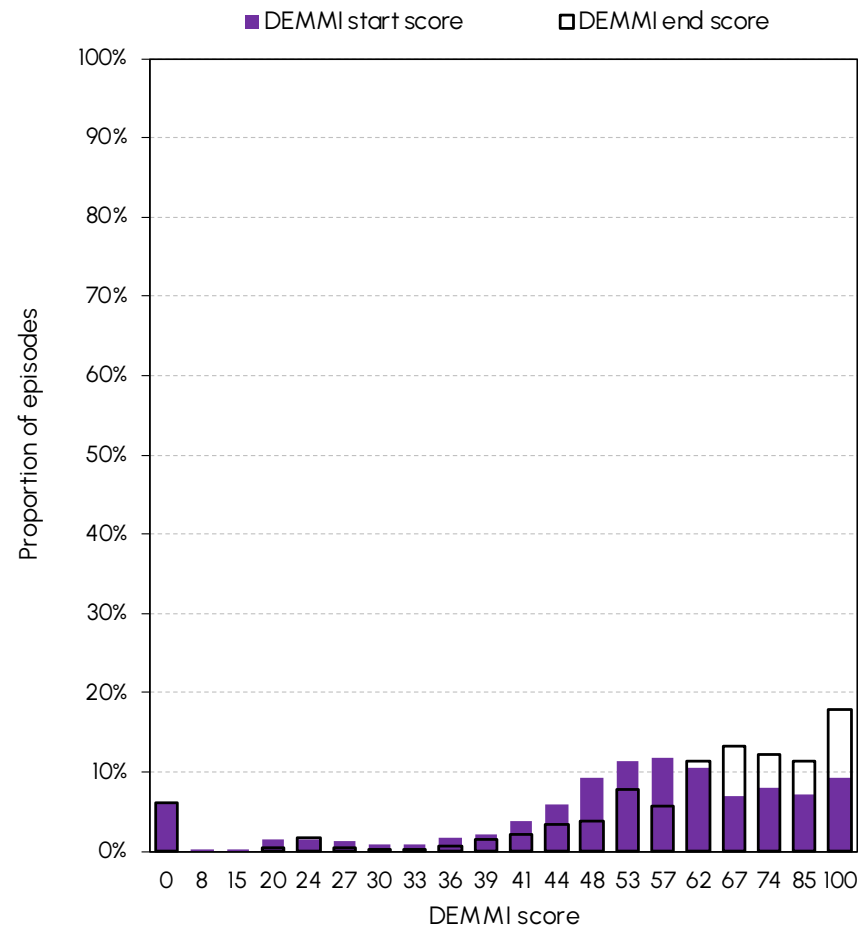


# DEMMI start and end total – all episodes

Your Service 2024 (n=14)



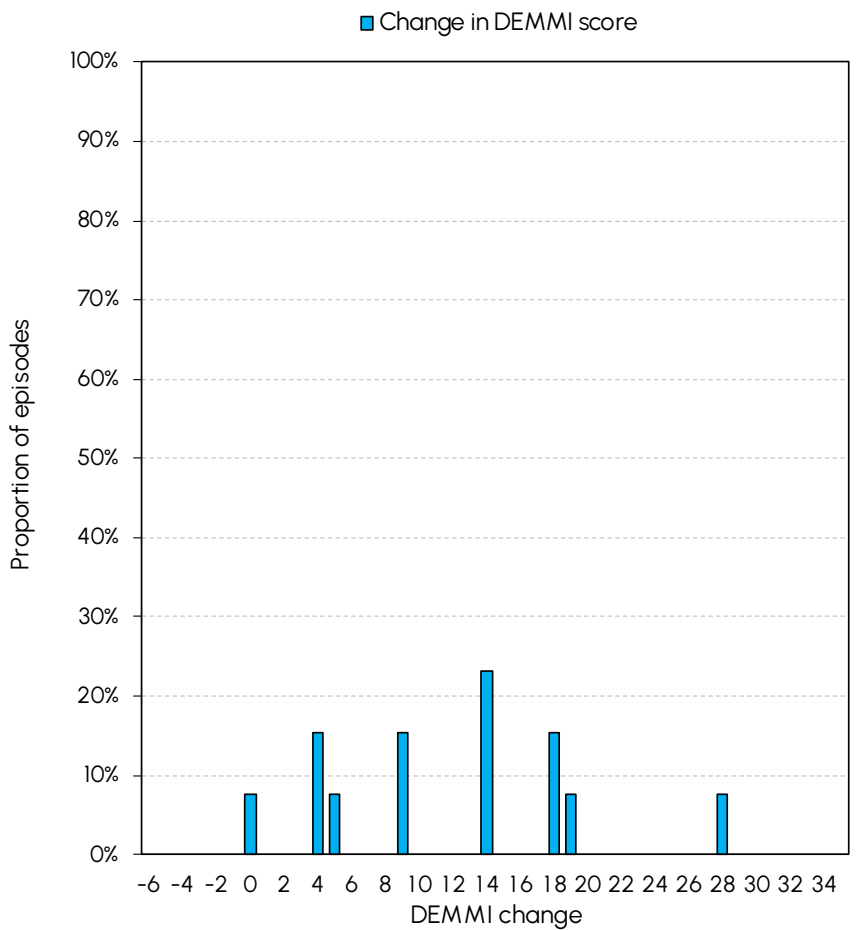
All Ambulatory 2024 (n=424)



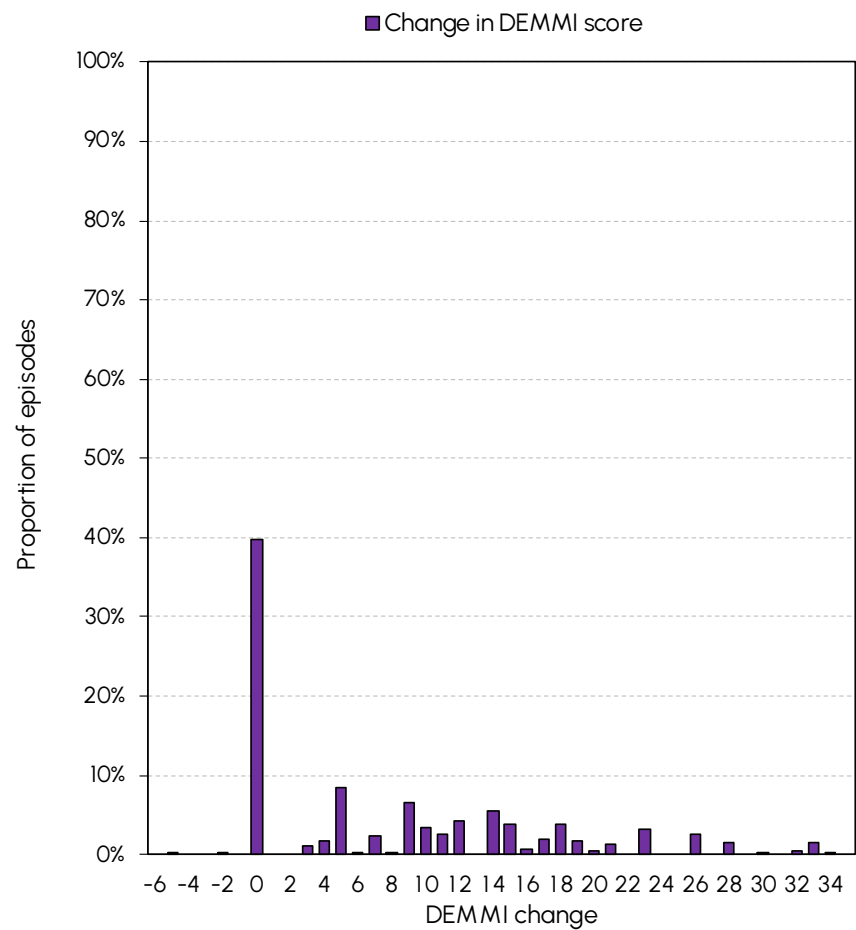
# Change in DEMMI score – all episodes



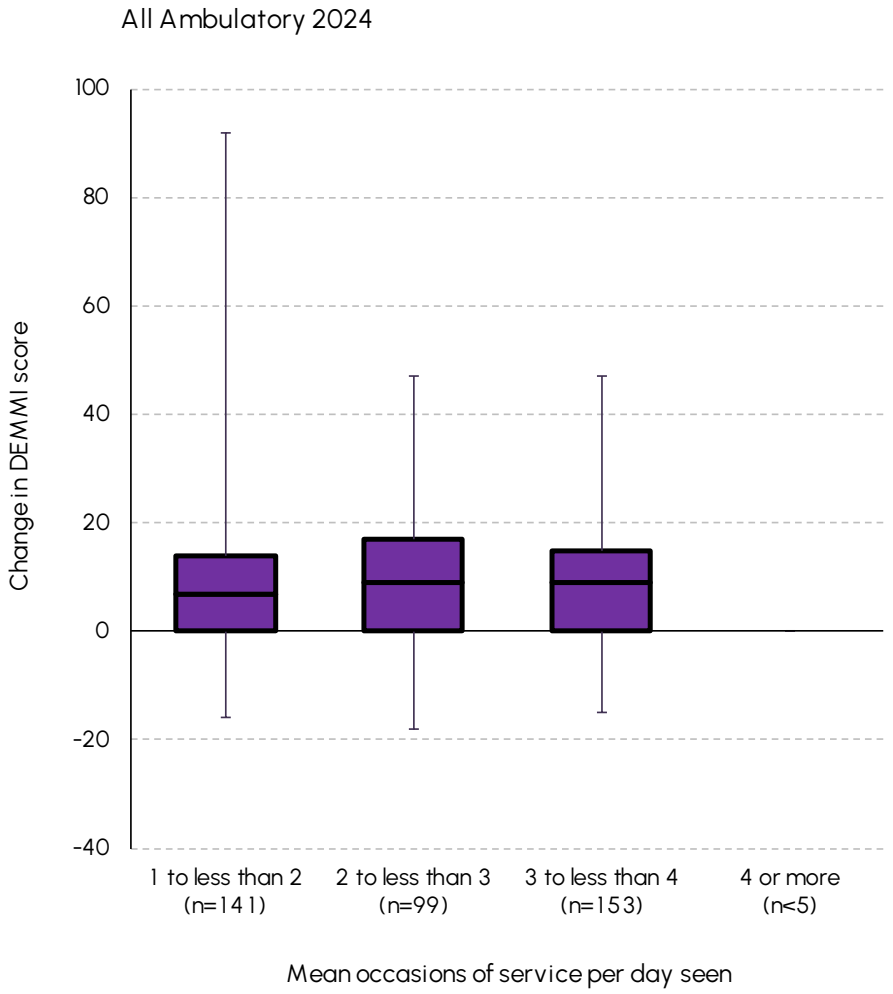
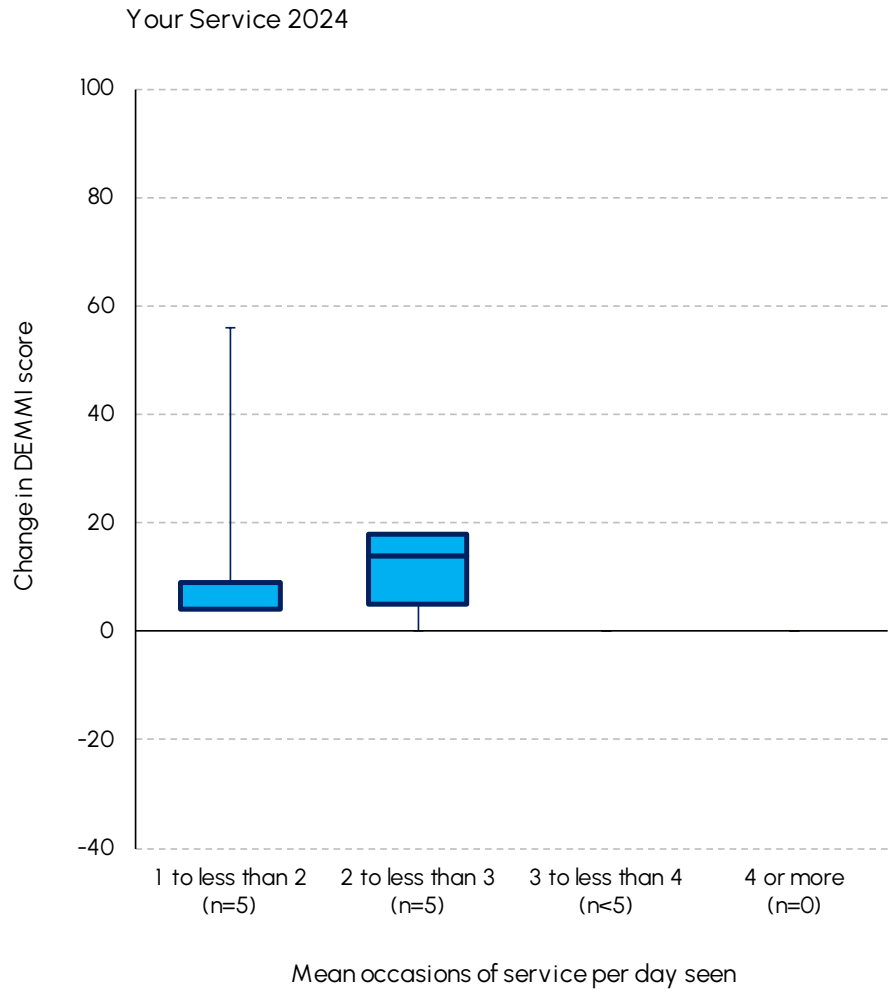
Your Service 2024 (n=14)



All Ambulatory 2024 (n=424)

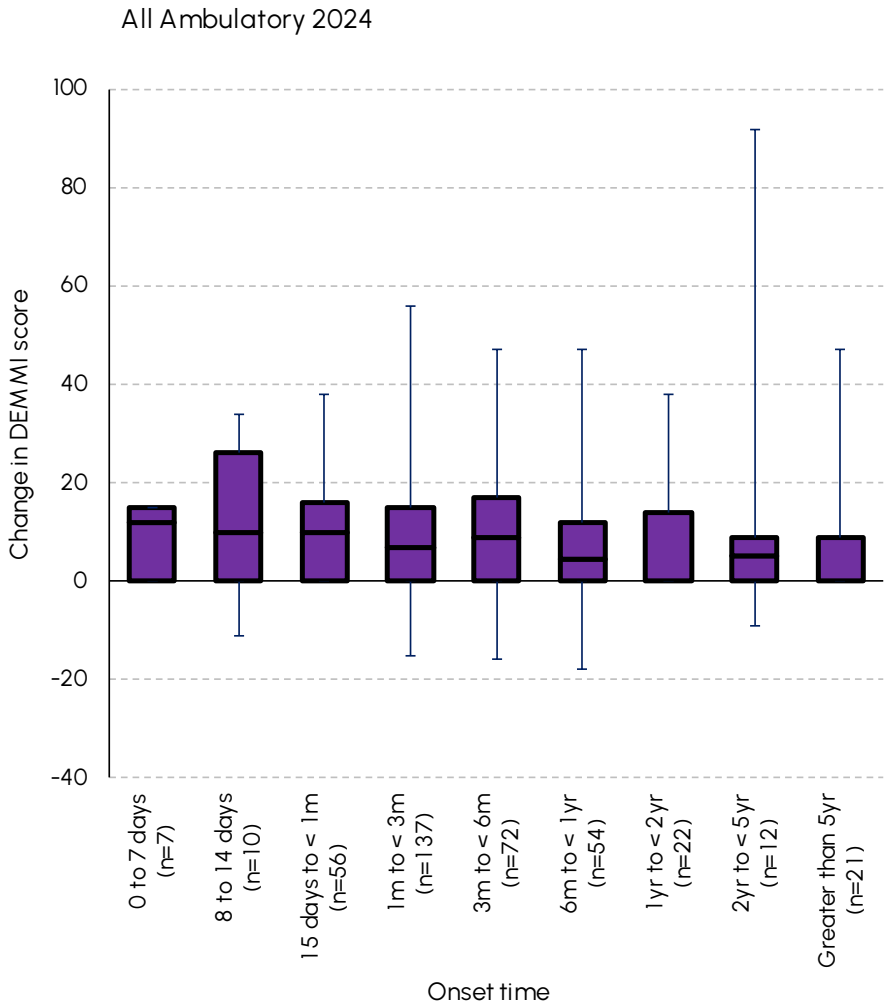
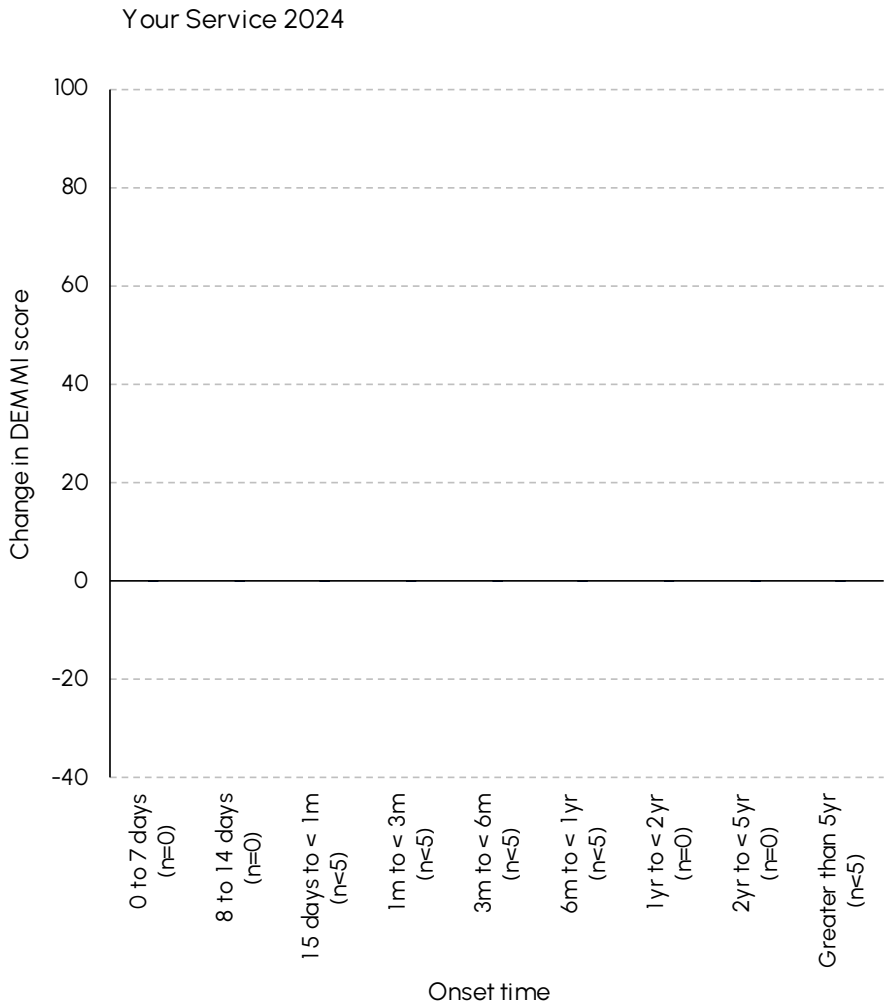


# Change in DEMMI score by OOS/day seen – all episodes



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

# Change in DEMMI score by onset time – all episodes



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

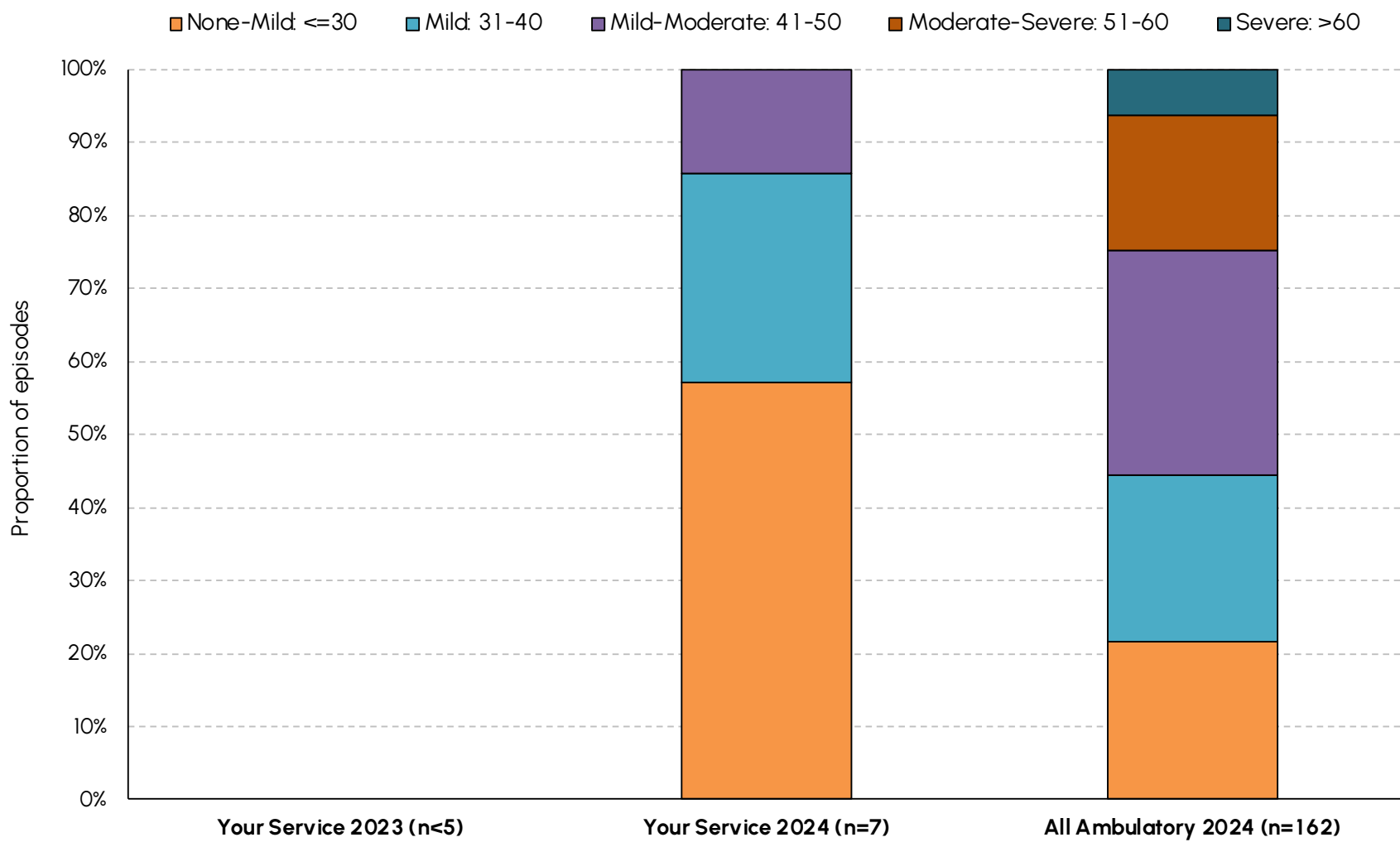
# Mayo-Portland Adaptability Index-4 (MPAI-4)



- 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.

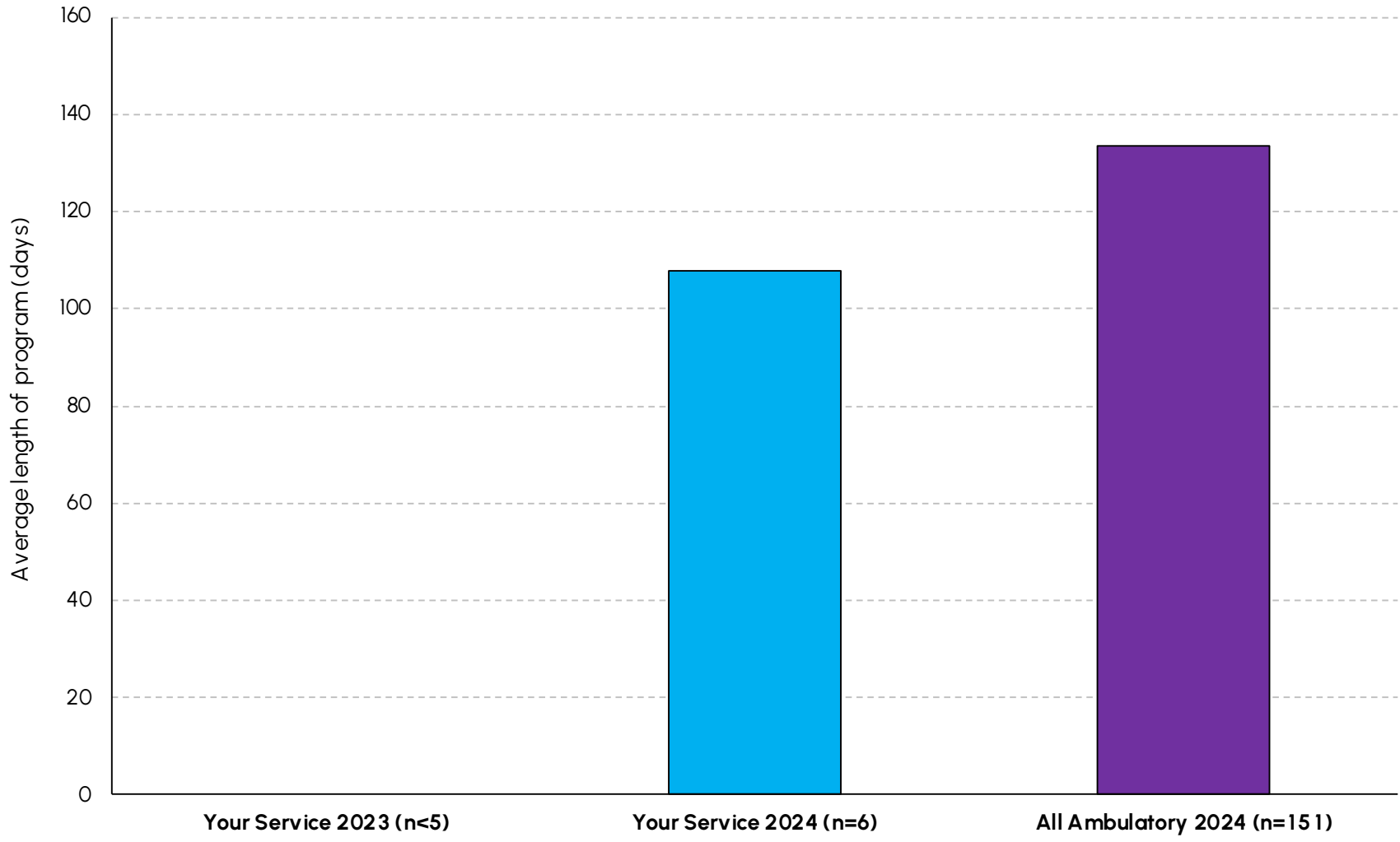
For further information refer to the AROC Ambulatory Data Dictionary V4.1 for Clinicians.

# Casemix of episodes submitted MPAI-4



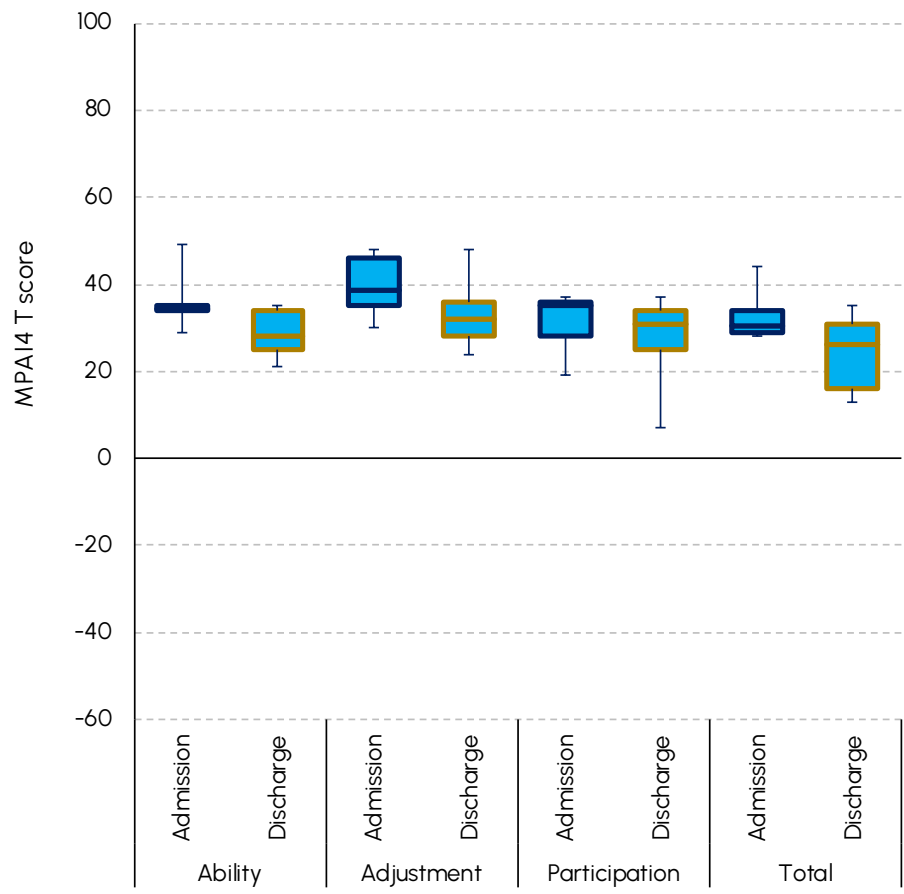


# Average program length for episodes with submitted MPAI-4

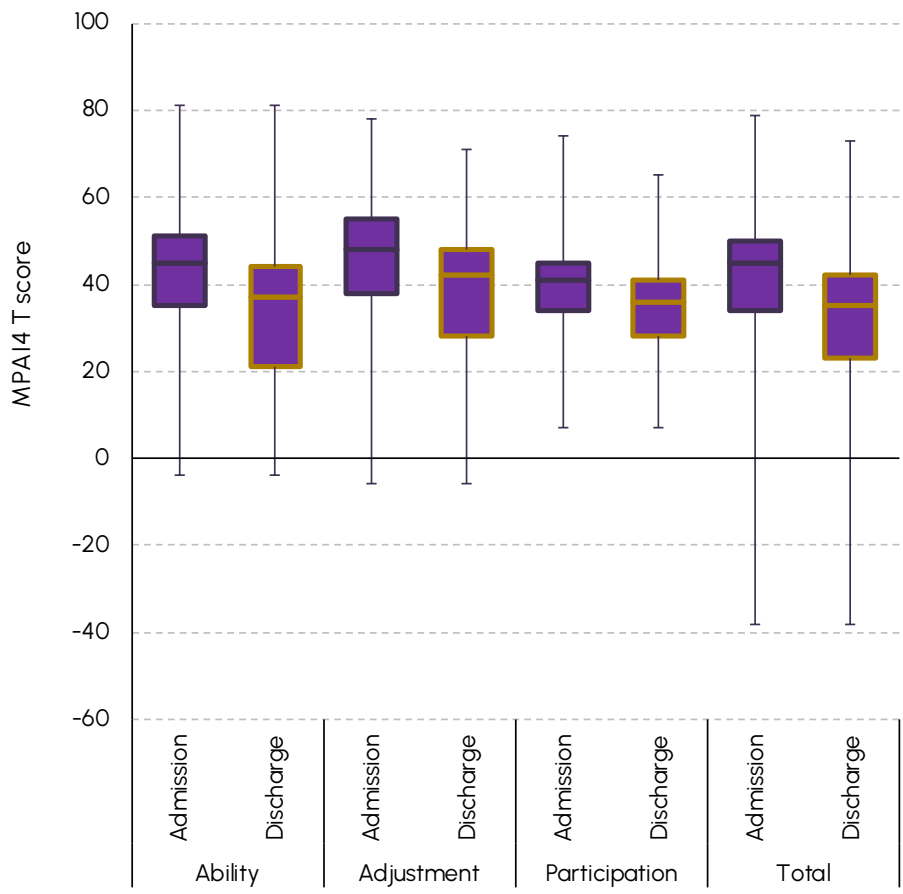


# Admission and discharge T score distribution of spread by MPAl-4 index

Your Service 2024 (n=6)



All Ambulatory 2024 (n=151)

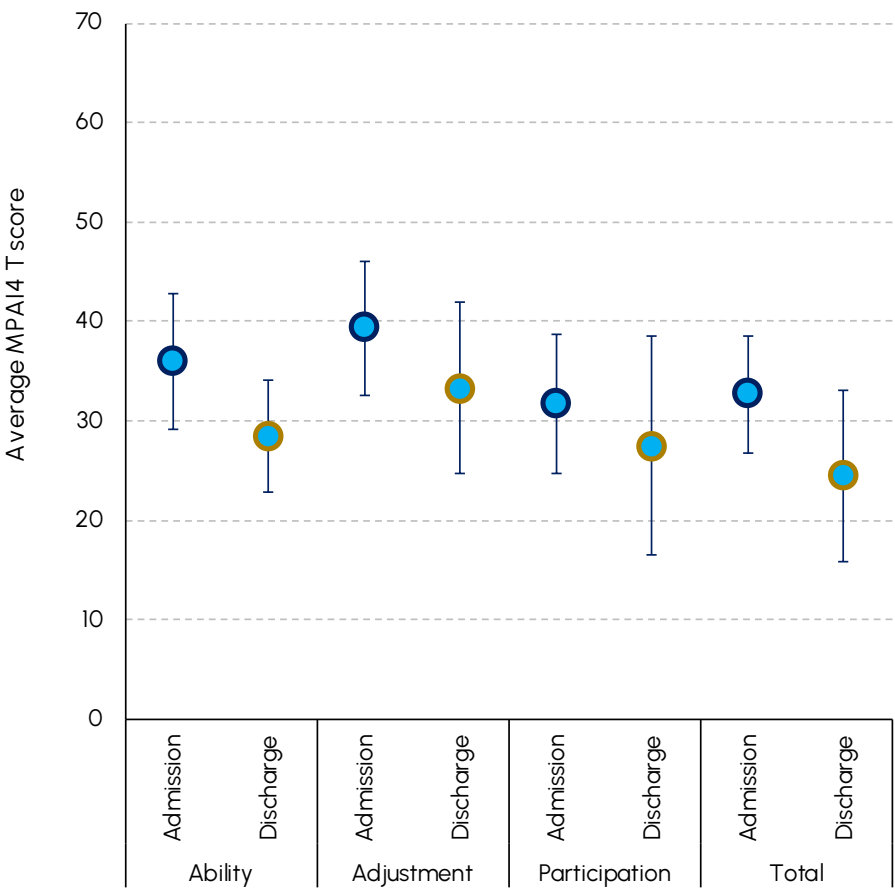


NOTE: To understand how to interpret these figures please refer to Appendix 3

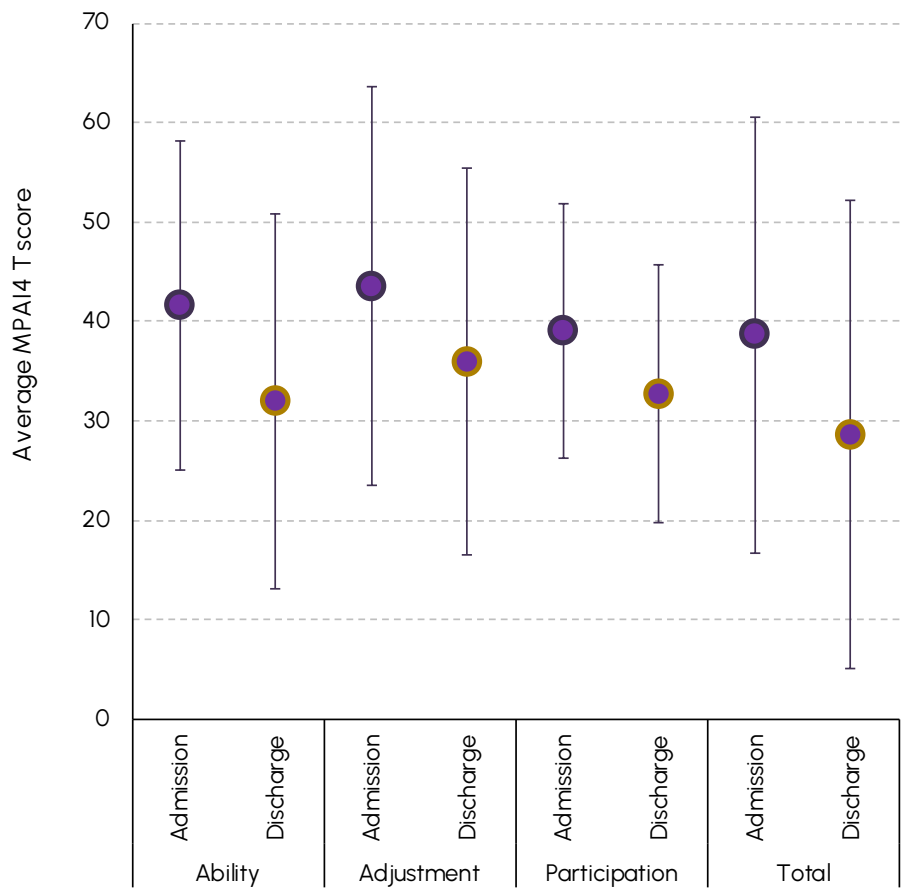
# Admission and discharge average T score by MPAI-4 index



Your Service 2024 (n=6)



All Ambulatory 2024 (n=151)



# 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

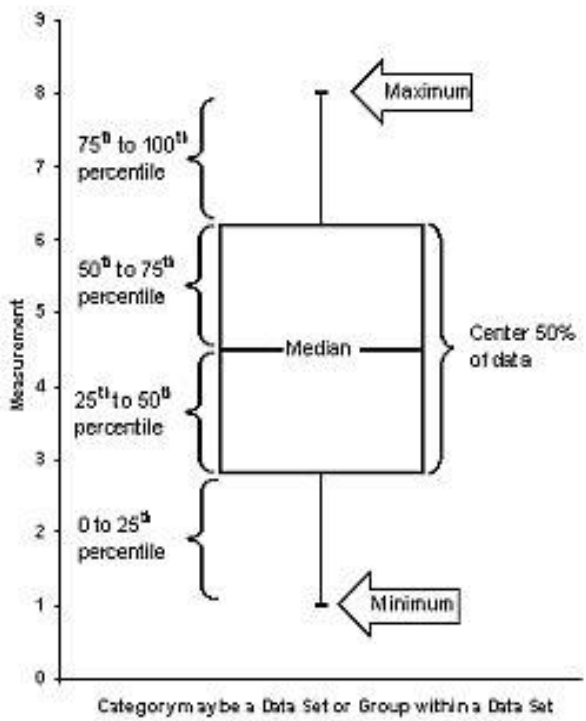
A valid Outcome Measure requires all items within the scale to have a value assigned and be completed for both the episode begin and episode end assessments.



# 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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