

The AROC Annual Report:

The state of rehabilitation in Australia in 2017



**Australasian Faculty
of Rehabilitation
Medicine**

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Introduction

This is the 13th comprehensive annual report describing discharge episodes from subacute inpatient rehabilitation programs provided by Australian facilities that are members of the Australasian Rehabilitation Outcomes Centre (AROC).

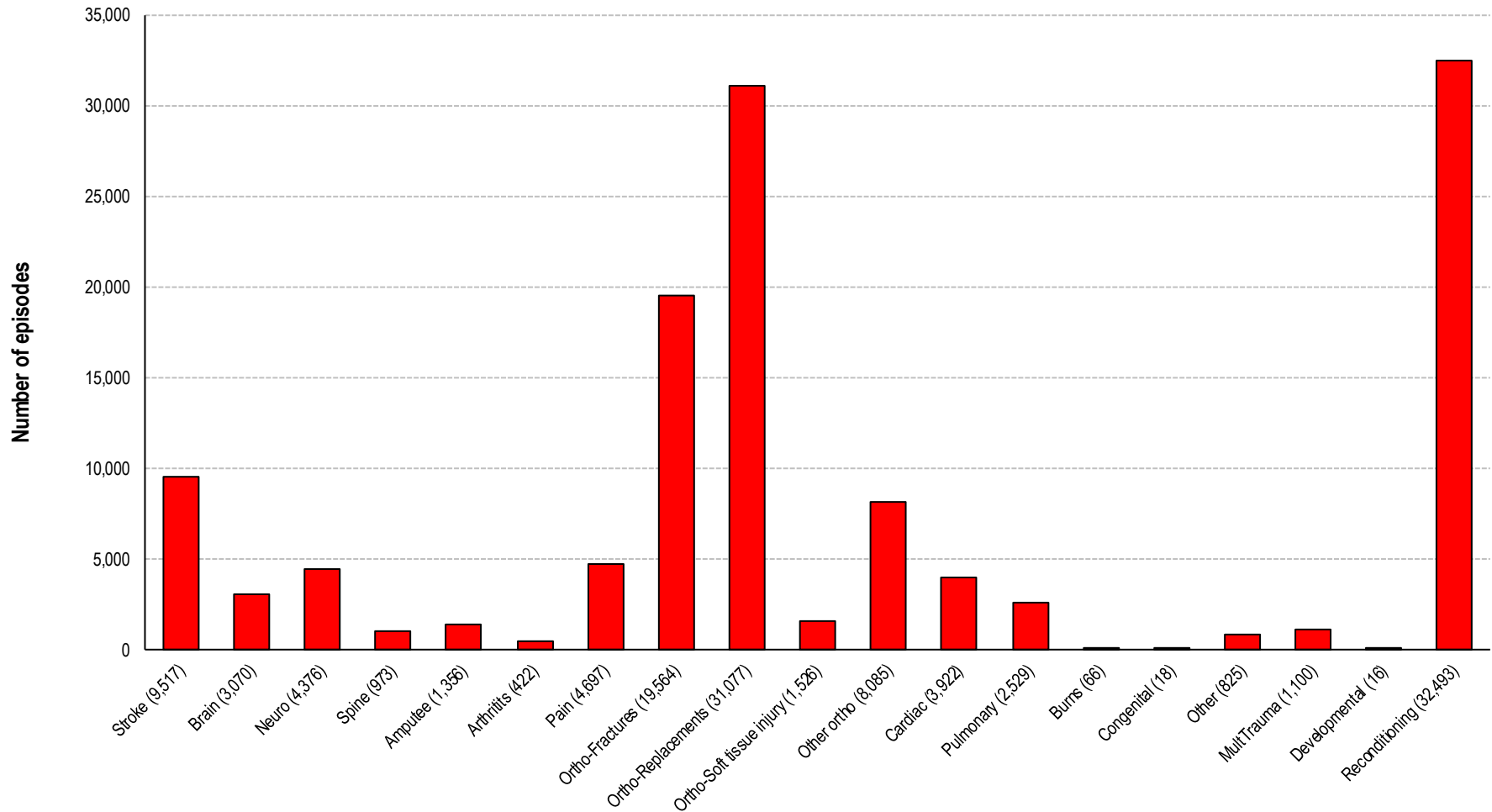
The inaugural report was published in April 2007 and described the 2005 data; this 13th instalment describes the 2017 data.

This report is the second to use the version 4 AN-SNAP classification (implemented in Australia in July 2016). For more information about AN-SNAP classification please refer to the AROC website: <http://ahsri.uow.edu.au/aroc>

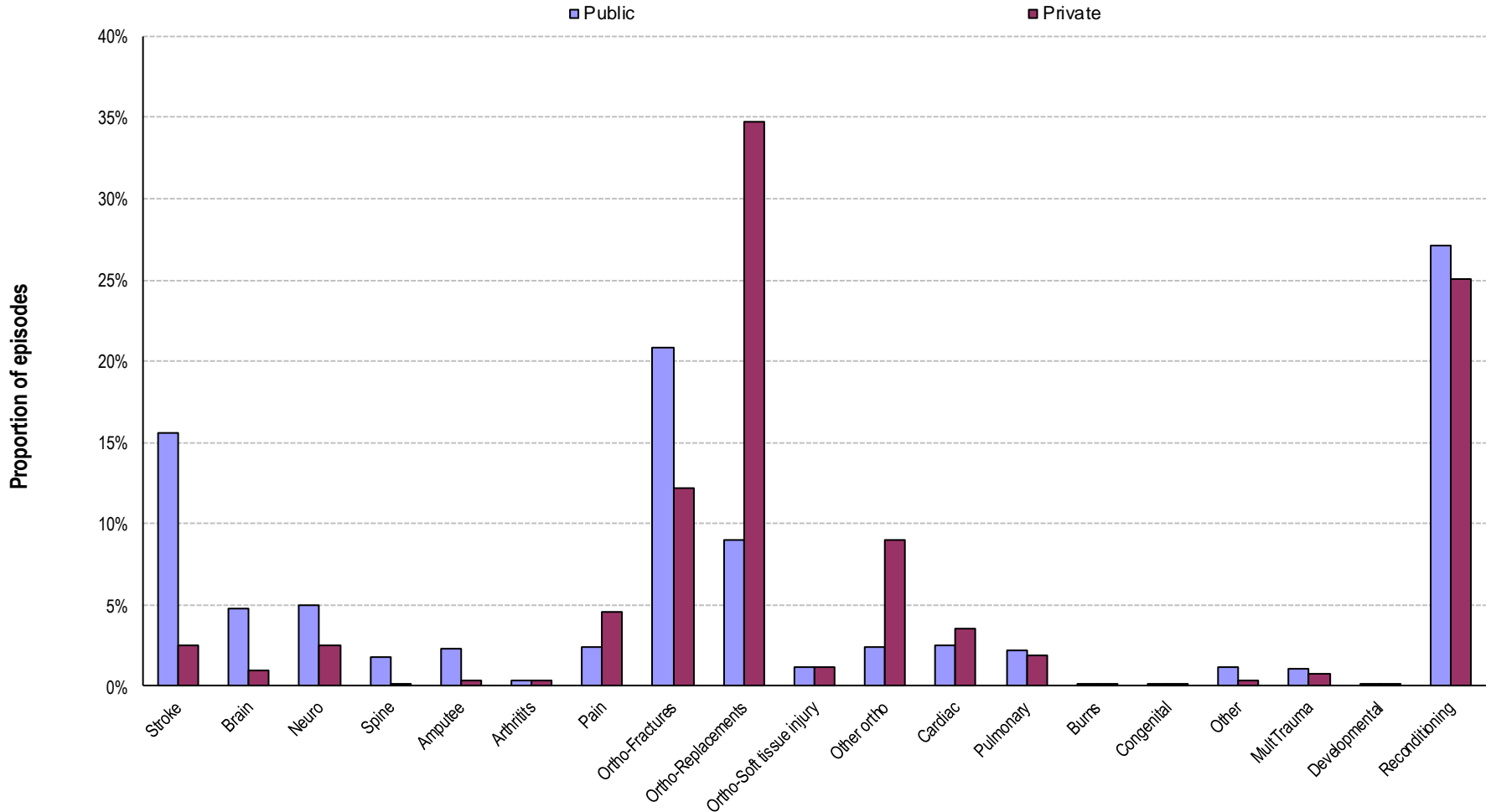
This report also includes an extended times series analysis, looking at change in various rehabilitation measures over the most recent five years.

The provision of rehabilitation in Australia continues to grow in volume, with 2017 seeing a 2.8% real increase in inpatient episodes of rehabilitation provided. The impairment groups with the greatest relative growth in 2017 were Pulmonary and Reconditioning.

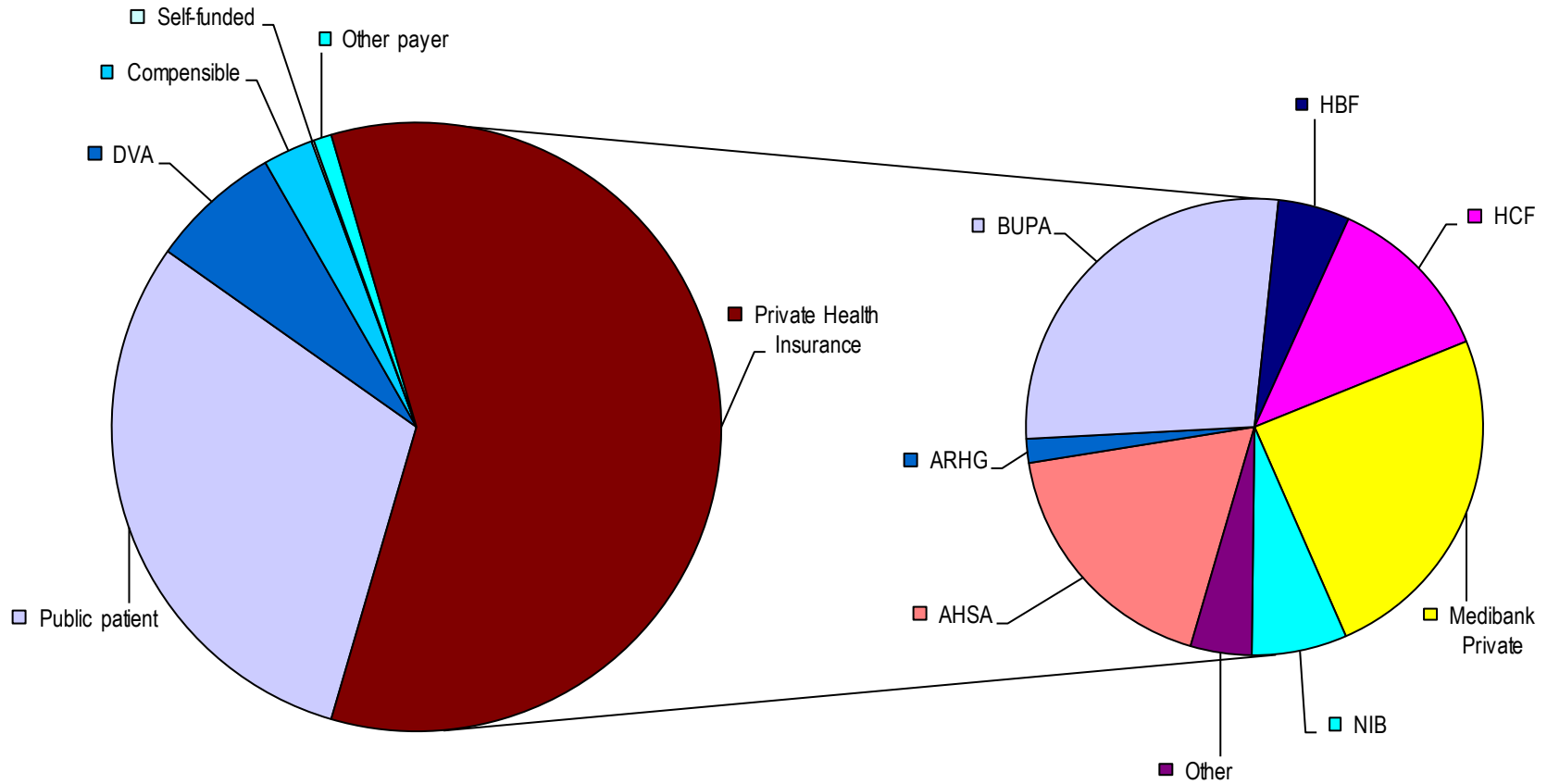
Number of episodes by impairment group, 2017



Proportion of episodes by impairment and sector, 2017



Funding source for rehabilitation in Australia, 2017

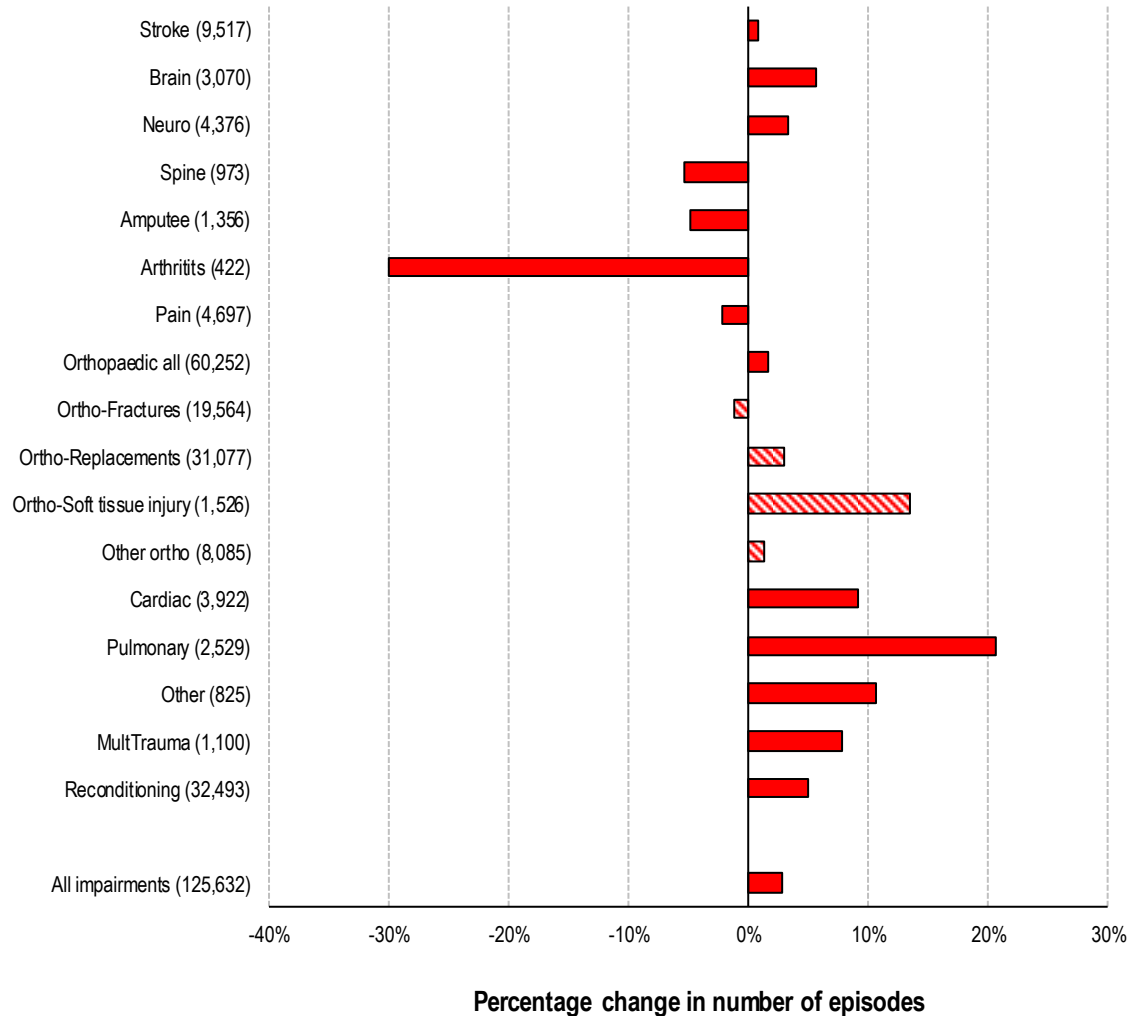


Changes in rehabilitation – compared to last year

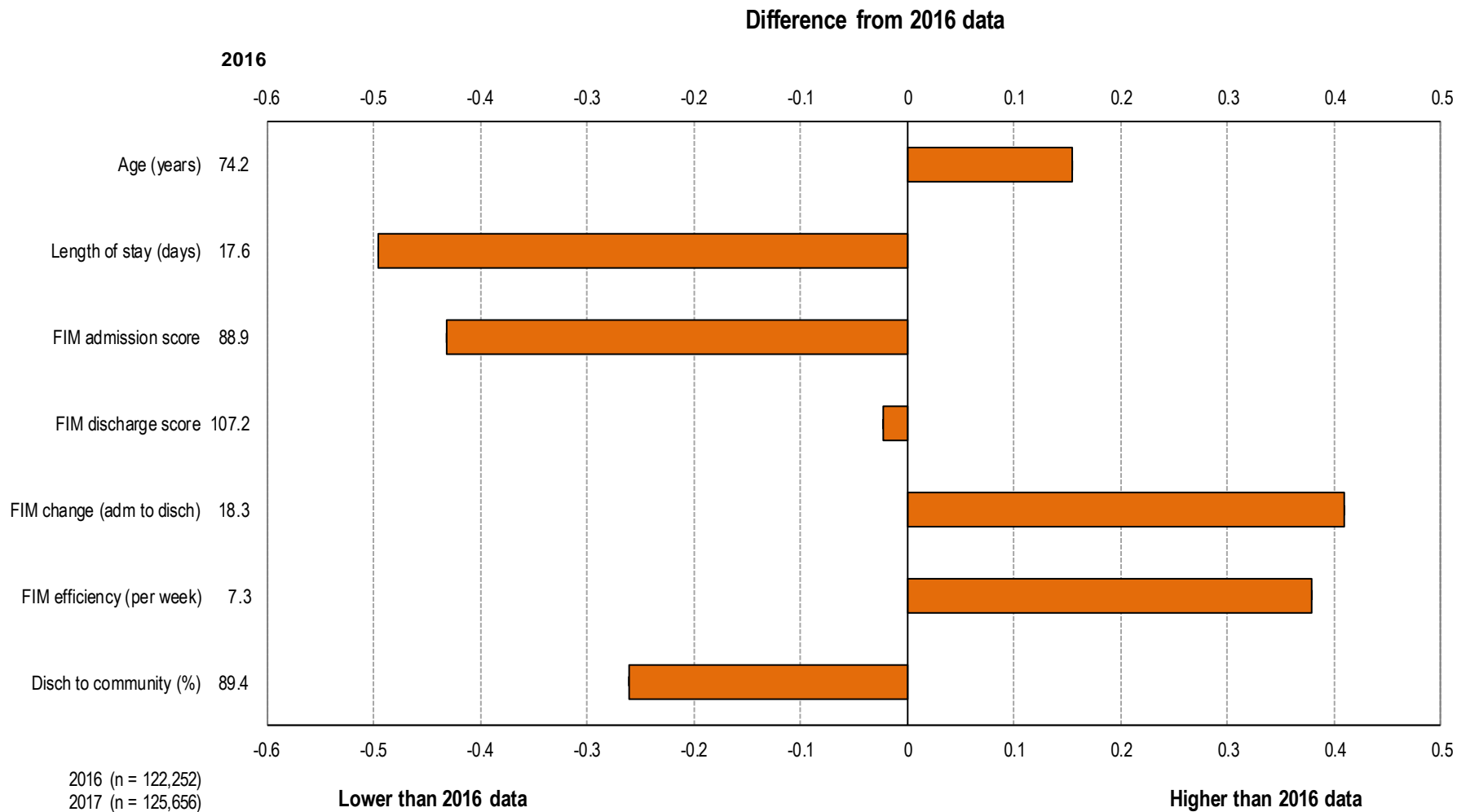
The following figures look at changes in rehabilitation between last year and this year:

- The first figure considers the number of episodes within each impairment group and documents real changes in episode volume since last year.
- The second figure presents the key changes in rehabilitation outcome measures between last year and this year. The horizontal axis describes the difference between last year and this year averages, while last years actual values are presented on the left side of the graph.

Change in number of episodes by impairment group, 2016 to 2017



Change in outcome measures, 2016 to 2017

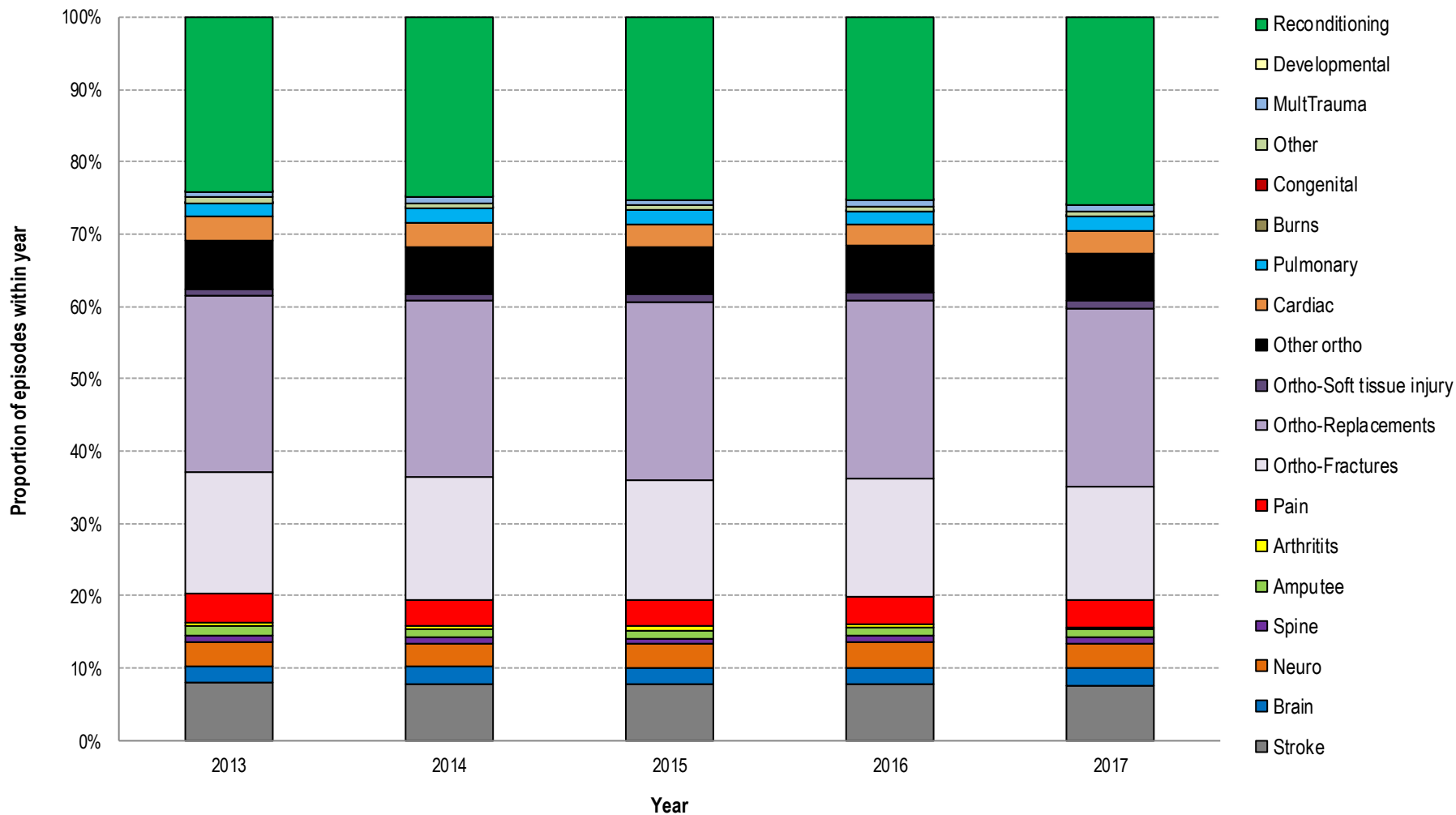


Changes in rehabilitation – compared to five years ago

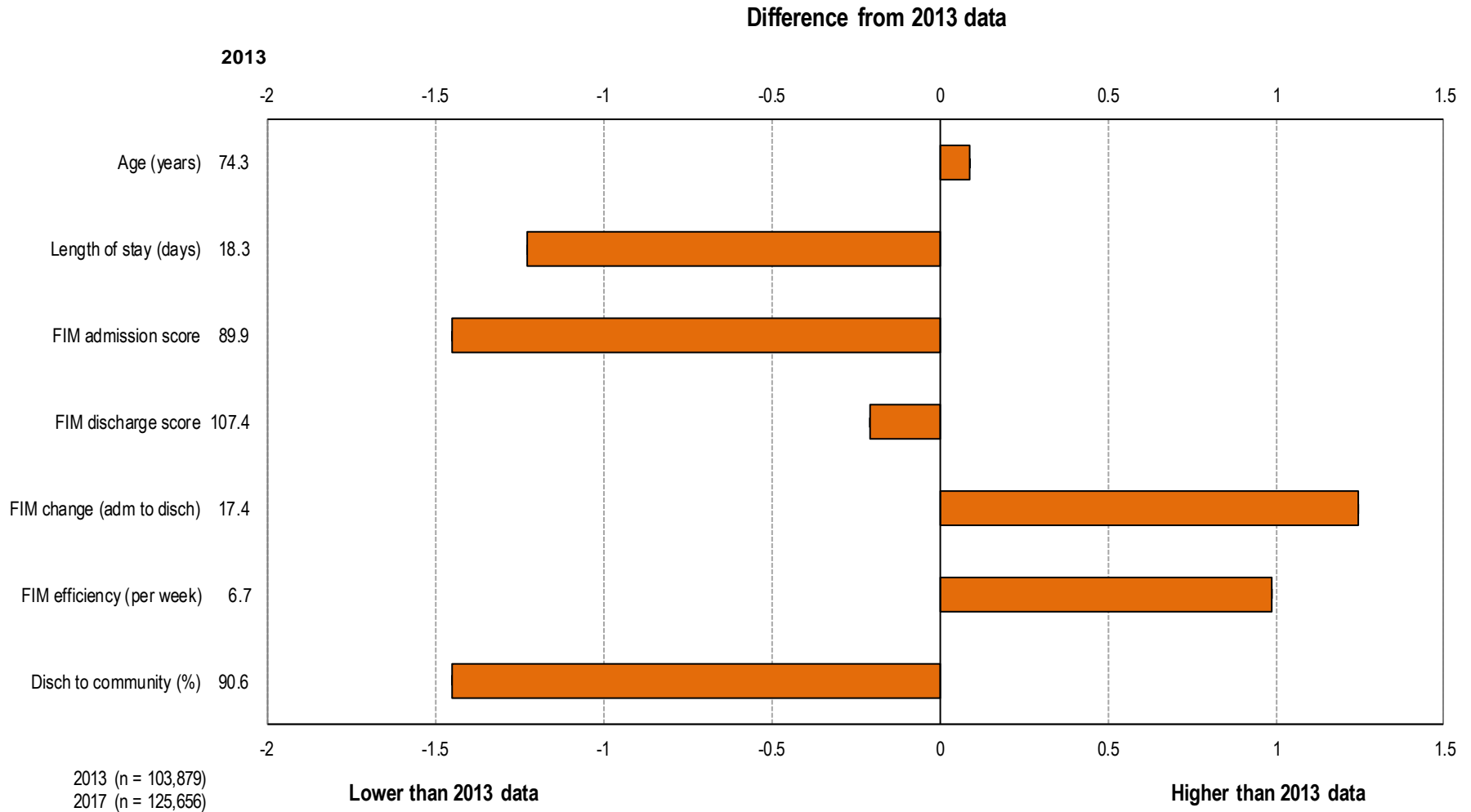
The following figures look at changes in rehabilitation over the last 5 years:

- The first figure outlines the changing proportion of episodes within each impairment group over the past five years as a proportion of all episodes each year.
- The second figure presents the key changes in rehabilitation outcome measures between five years ago and this year. The horizontal axis describes the difference between five years ago and this year averages, while the actual values from five years ago are presented on the left side of the graph.
- The remaining figures provide a graphical representation of the change in various rehabilitation measures over the most recent five years. Each bar (one per year) represents the difference, positive or negative, of that year's value to the value from five years ago. The value for the bar from five years ago will always be zero.
 - Age at admission
 - Admission to rehabilitation within a week of injury or onset of symptoms
 - Length of stay
 - Proportion of FIM assessments within three days of rehabilitation commencing
 - Admission FIM scores as a proportion of the total score possible
 - FIM change as a proportion of the total change possible
 - FIM efficiency

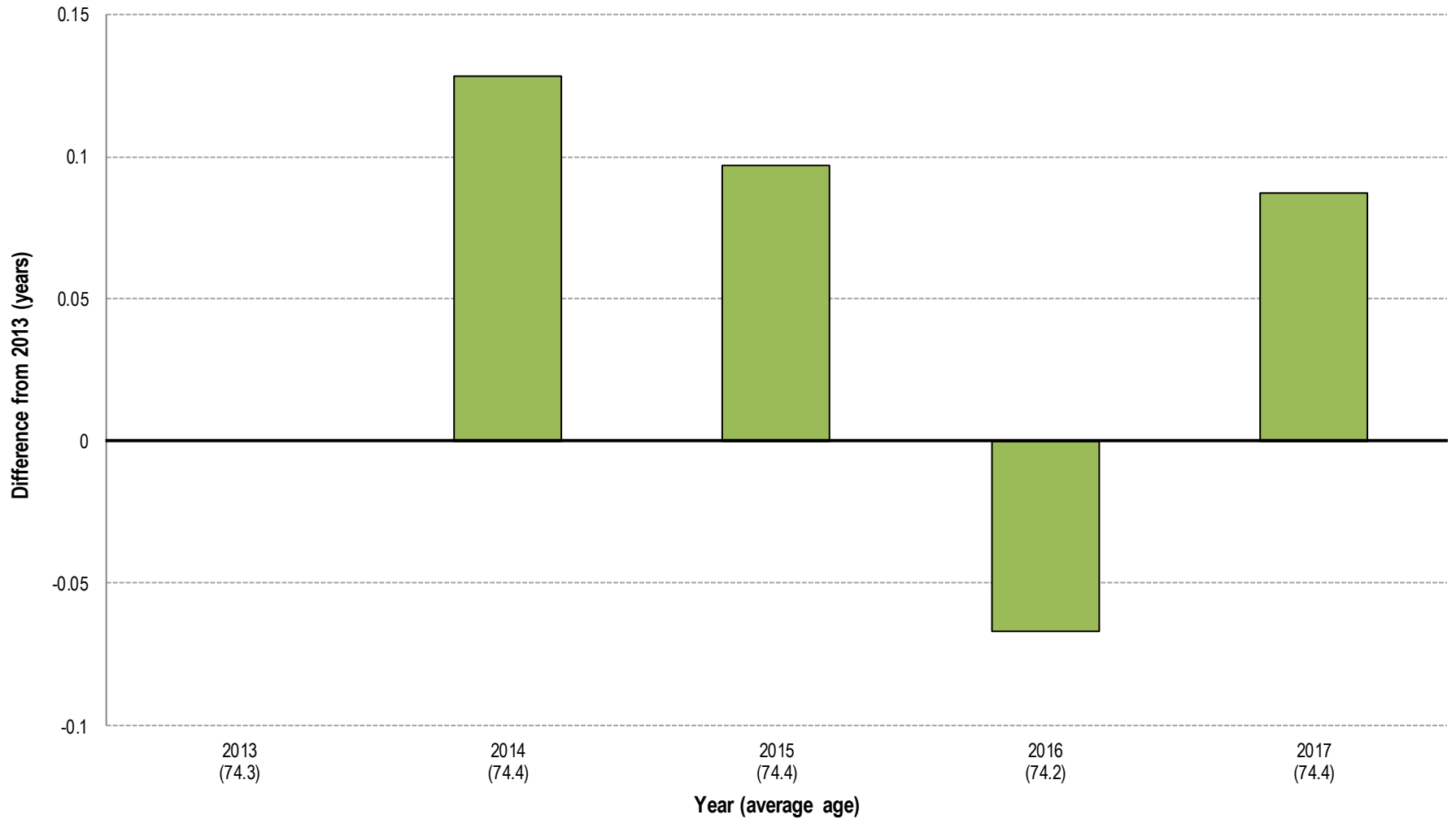
Proportion of episodes by impairment group, 2013 to 2017



Change in outcome measures, 2013 to 2017

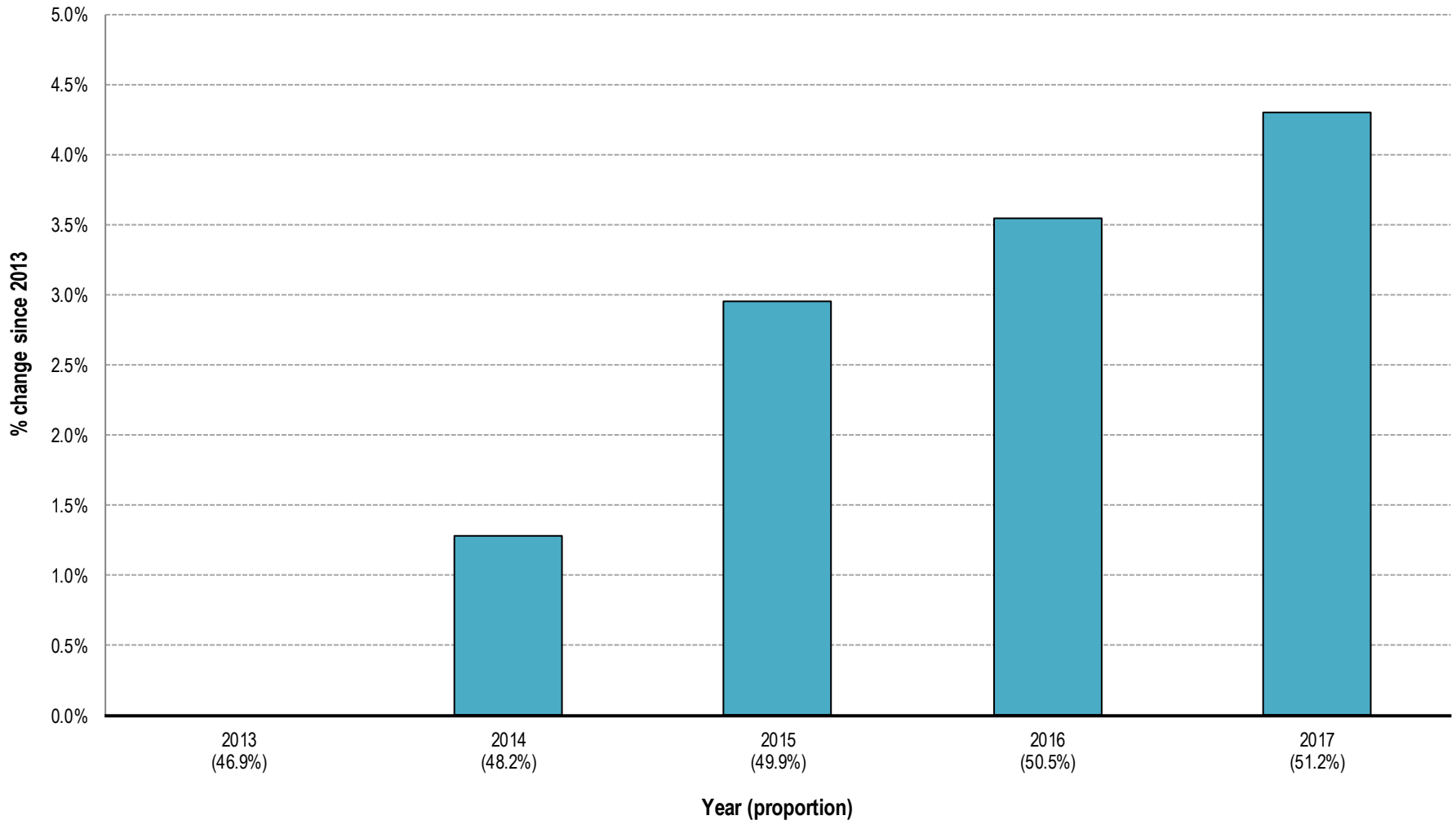


Average age compared to five years ago



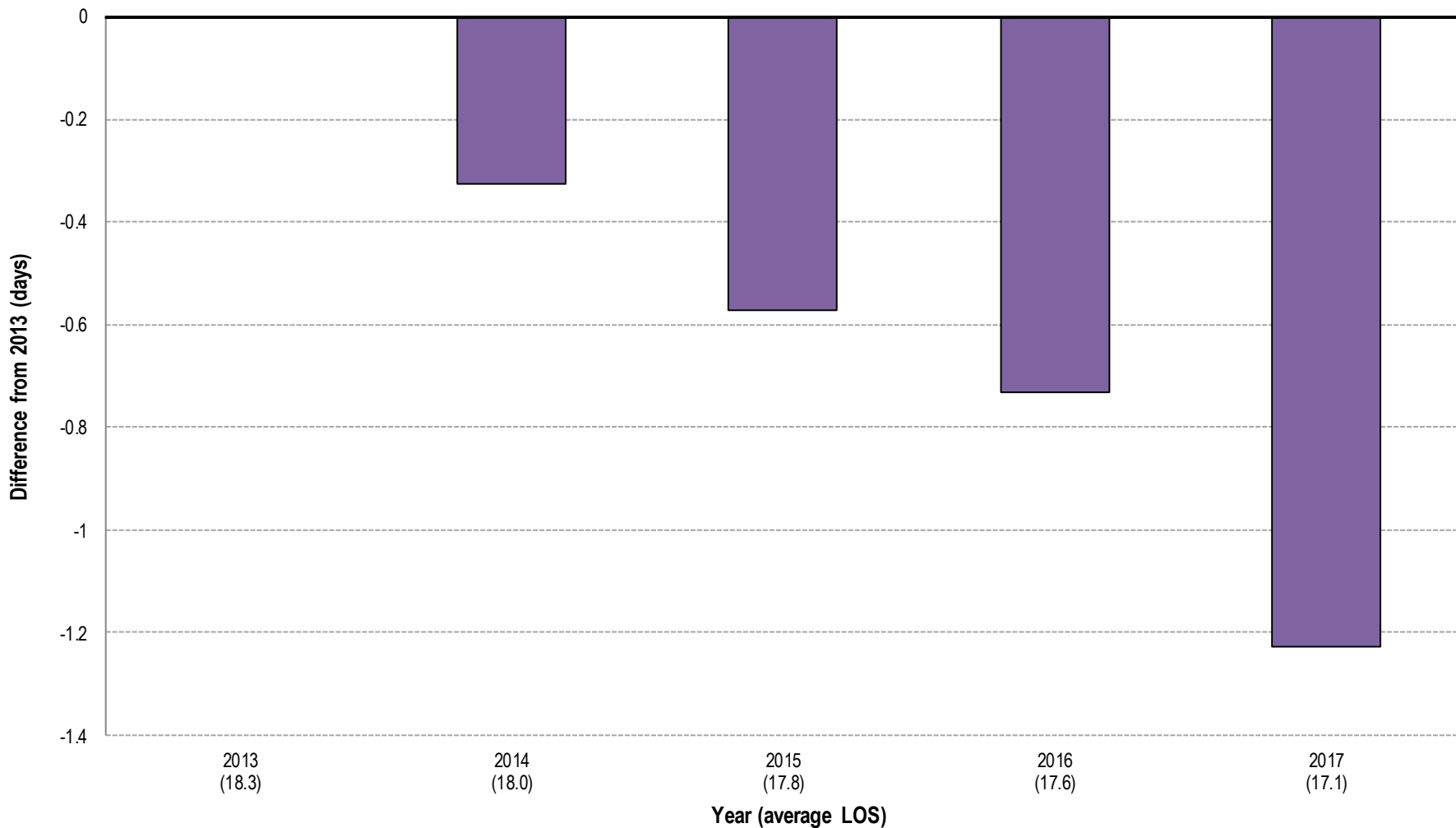
Over the last five years patient age has fluctuated very little.

Admission to rehabilitation within a week of injury or onset of symptoms compared to five years ago



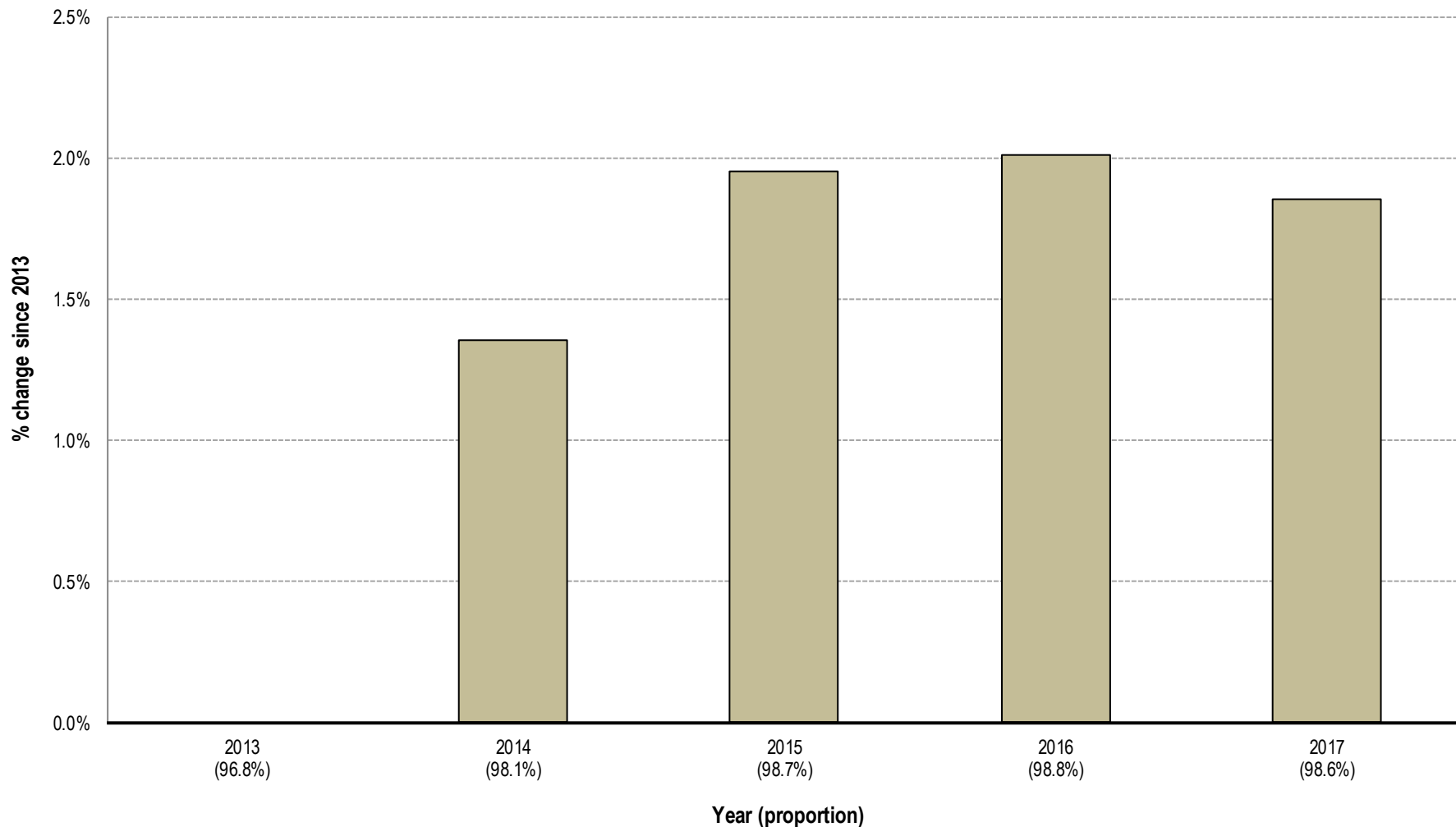
Over the last five years patients have been commencing rehabilitation sooner after their injury /onset of symptoms; in 2017 4% more patients were admitted to rehabilitation within a week of onset compared to in 2013.

Length of stay compared to five years ago



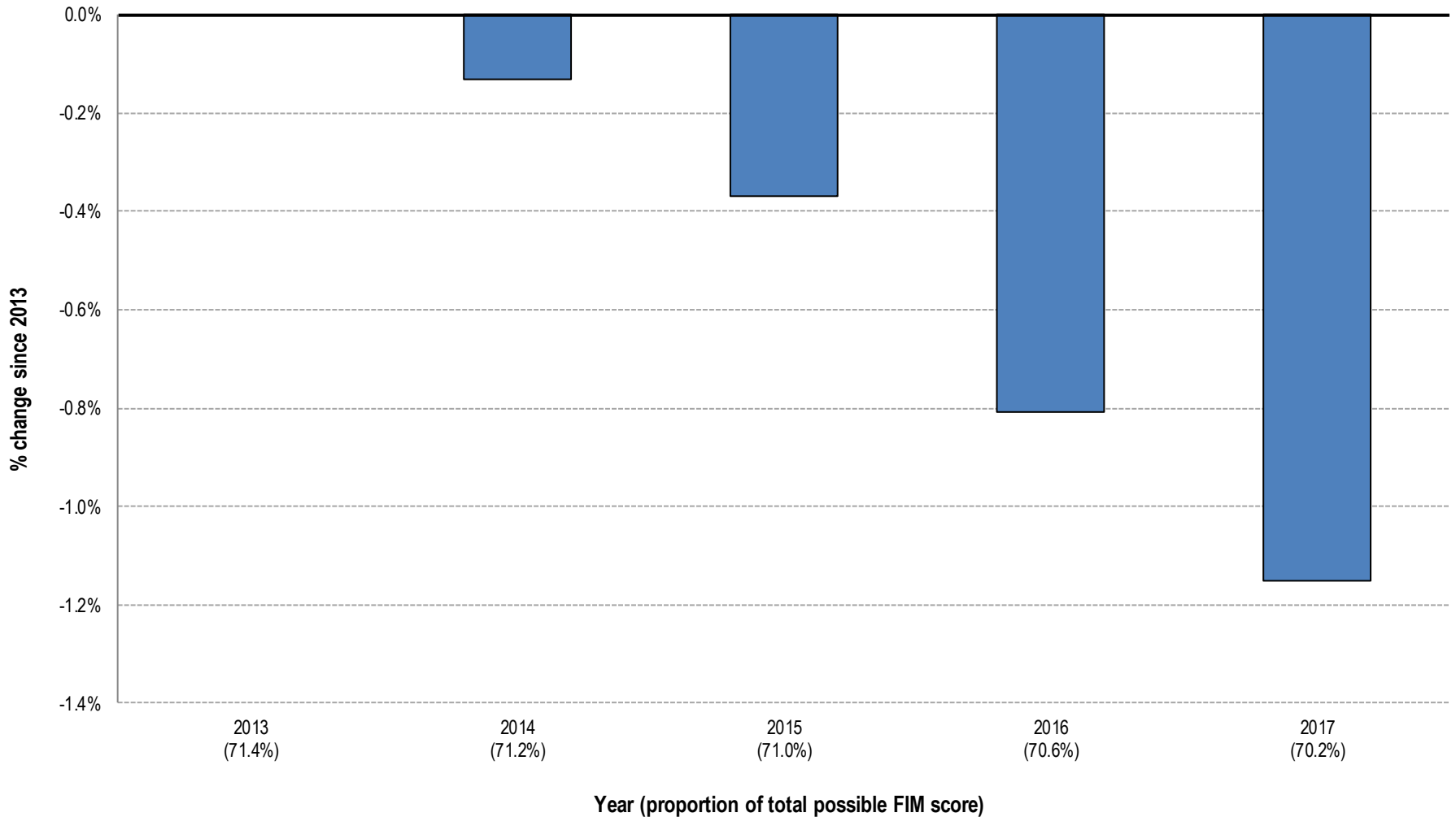
Over the last five years rehabilitation length of stay (LOS) has been declining slowly; in 2017 patients stayed just over 1 day less than they did in 2013.

Timeliness of FIM assessment within 72 hours compared to five years ago



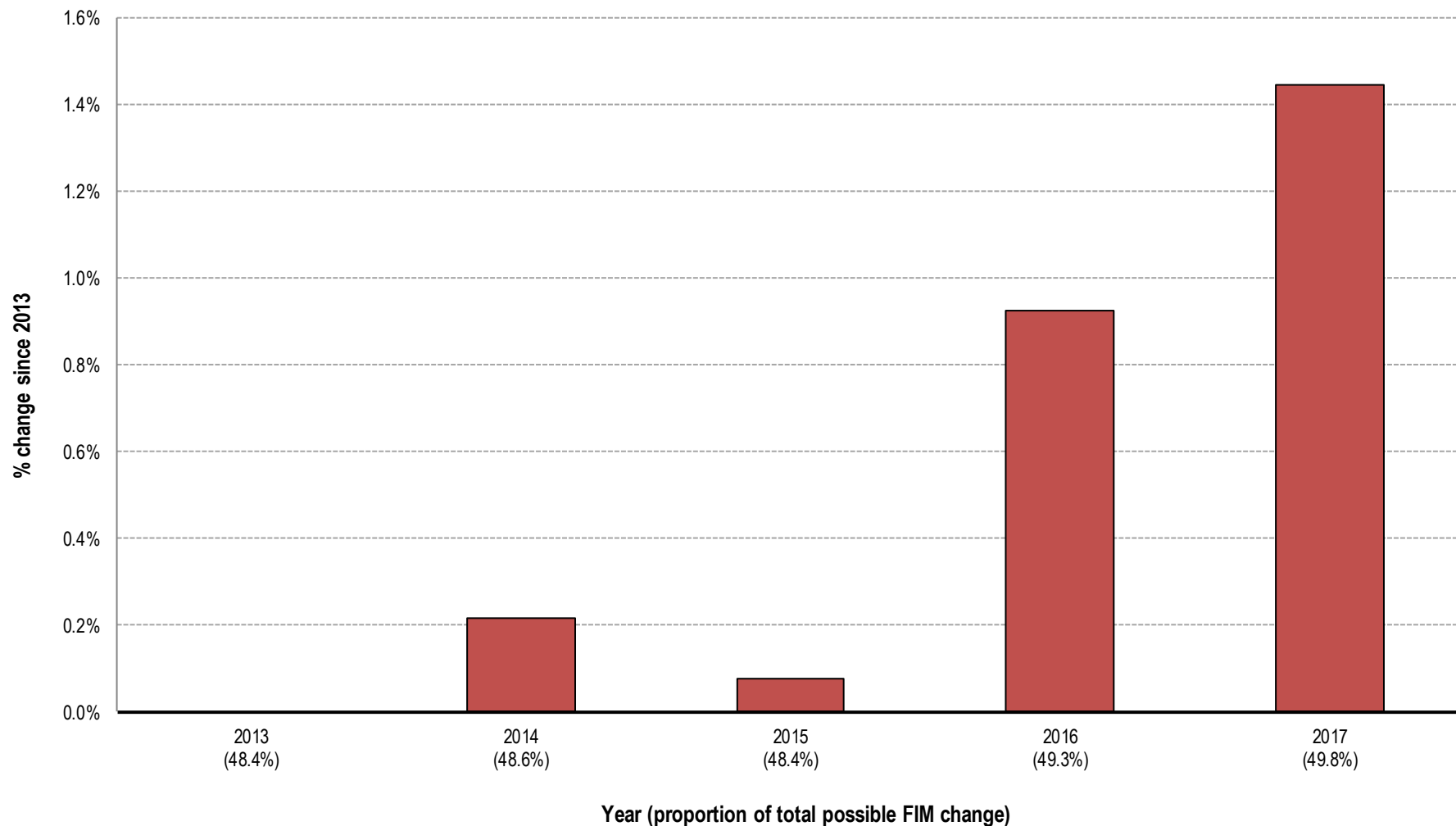
Over the last five years more patients have been assessed for their functional ability within three days of rehabilitation commencing; in 2017 2% more patients were assessed within three days compared to in 2013.

FIM scores at admission as a proportion of total possible compared to five years ago



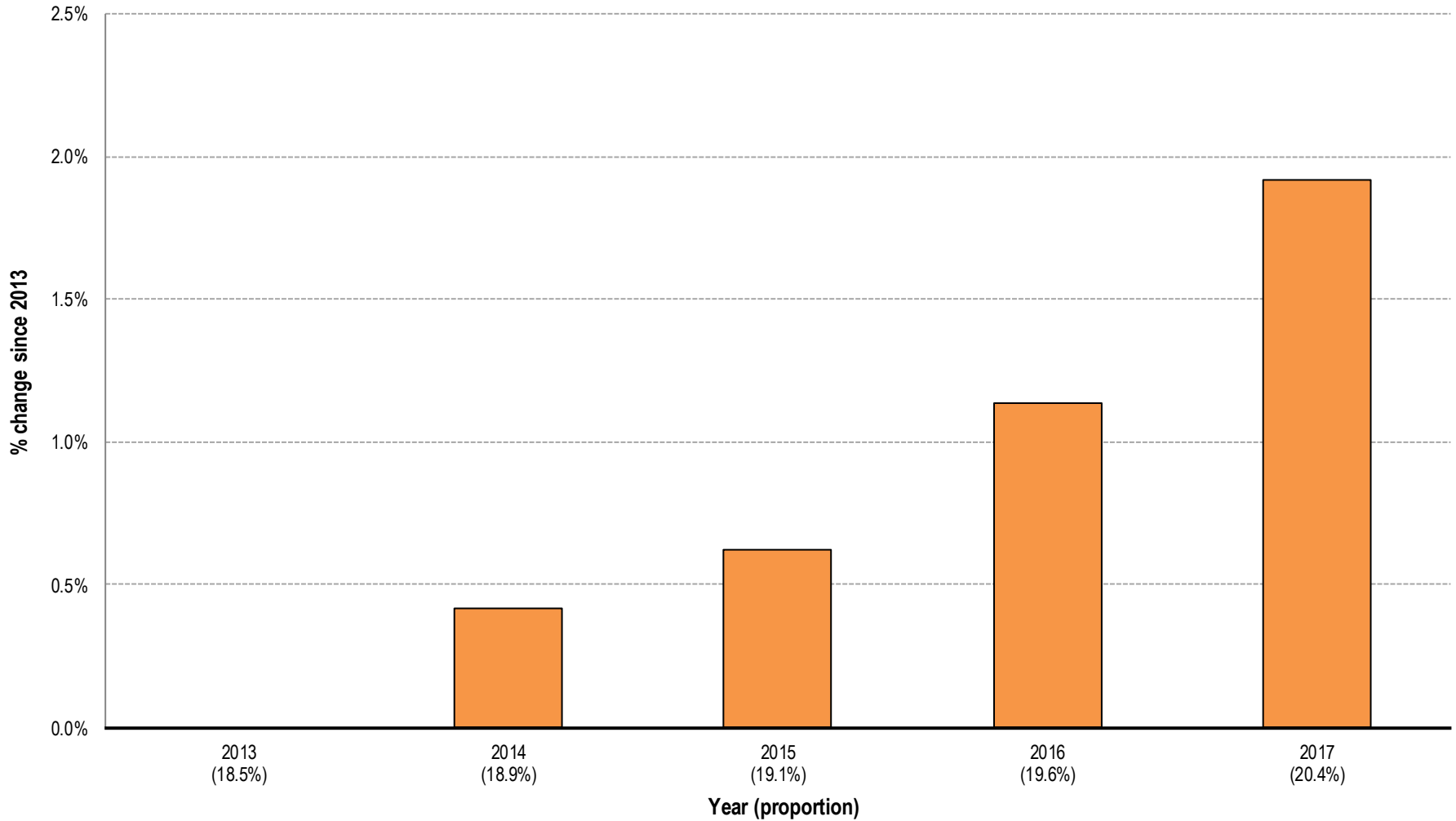
Over the last five years the FIM admission score has declined slightly, just over 1% lower in 2017 compared to in 2013.

Relative functional gain in FIM compared to five years ago



FIM Relative Functional Gain (RFG), or change in FIM score possible from admission to discharge, in 2017, was nearly 1½% higher than it was in 2013. In 2017 49.8% of FIM relative functional gain was achieved.

FIM efficiency per week compared to five years ago



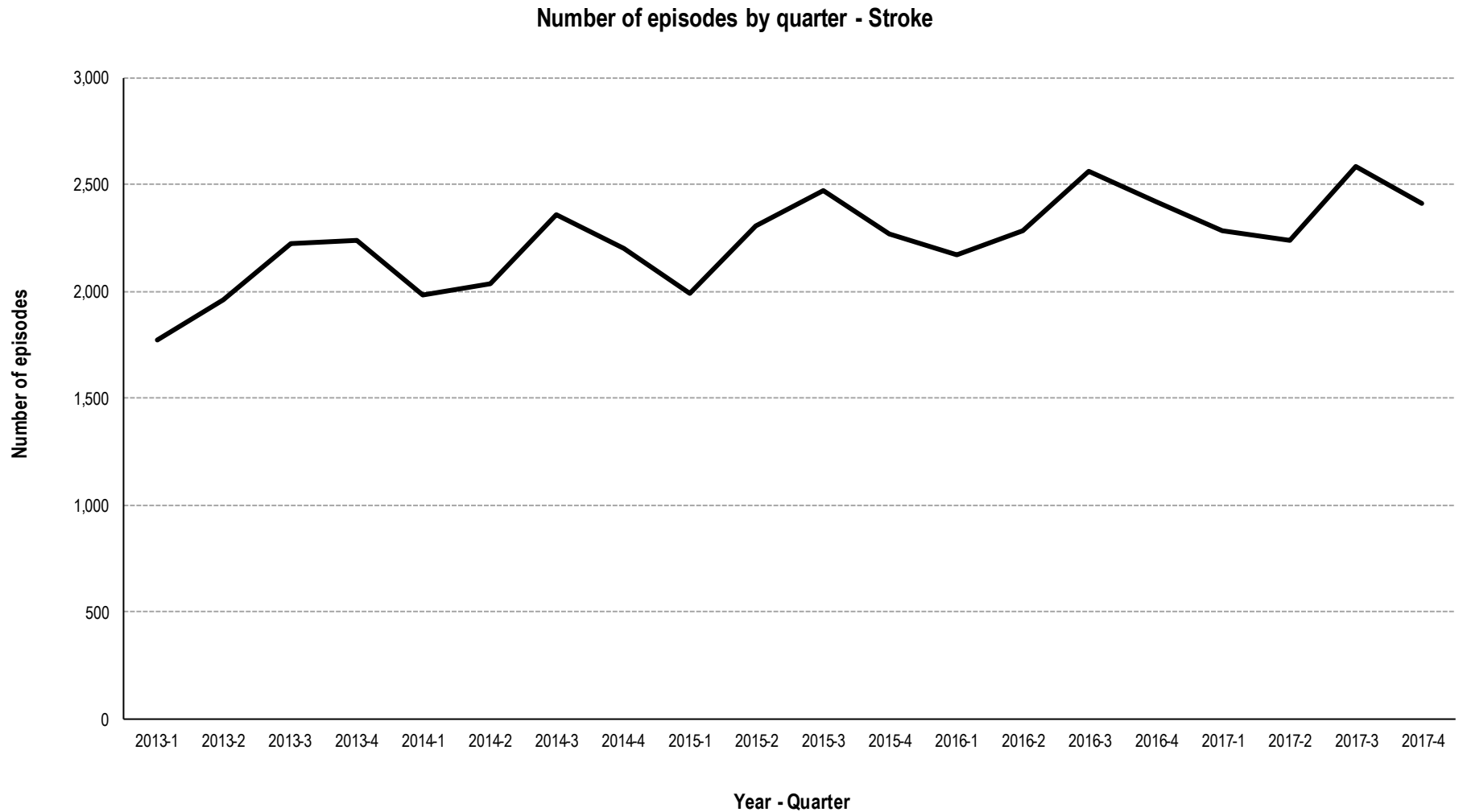
Over the last four years weekly FIM efficiency (change in FIM score possible from admission to discharge divided by length of stay x7) has not changed significantly although the trend has been for it to increase; in 2017 it was marginally higher than it was in 2013. The 1.9% increase from 2013 to 2017 is in keeping with the observed decline in LOS and static FIM change over this period.

Outcomes by impairment

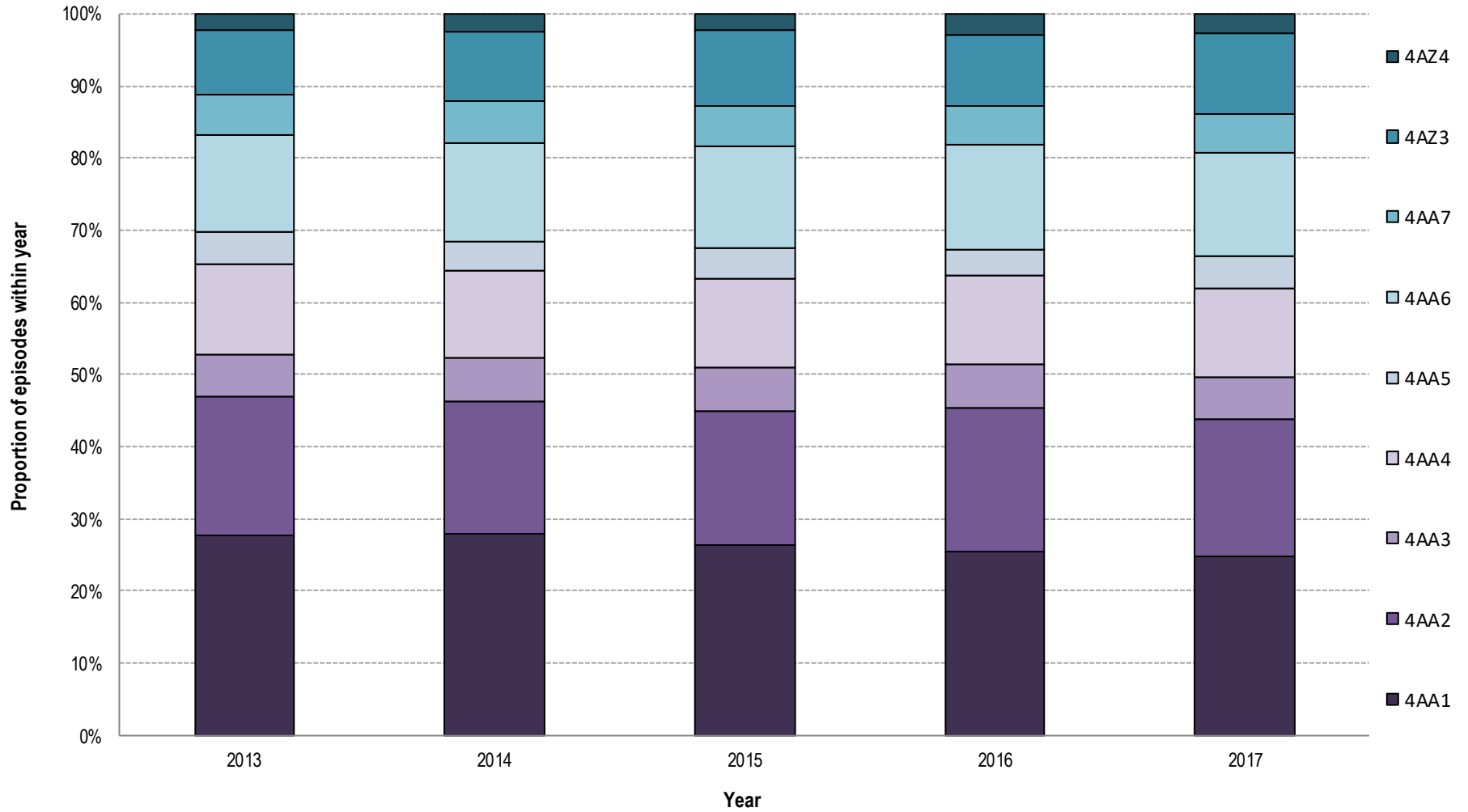
A series of figures and tables are provided for each impairment group; these outline the key descriptive data for this year, changes in episode volumes over the last 5 years, and changes in rehabilitation outcome measures between last year and this year:

- The first figure in each group outlines the number of episodes for each quarter over the past five years, and documents any changes in episode volume over time and/or seasonal trends.
- The second figure displays the proportion of episodes in each AN-SNAP class over the last 5 years.
- The third is a table outlining key data for the respective impairment group by AN-SNAP class.
- The fourth figure provides a summary of the discharge destination of all episodes by AN-SNAP class.
- The fifth figure provides a graphical representation of length of stay (LOS) and improvement in the FIM (Functional Independence Measure) by AN-SNAP class.
- Finally, the sixth figure presents the key changes in rehabilitation outcome measures between last year and this year. The horizontal axis describes the difference between last year and this year averages, while last year's actual values are presented on the left side of the graph.

Stroke episodes over time



Stroke casemix over time

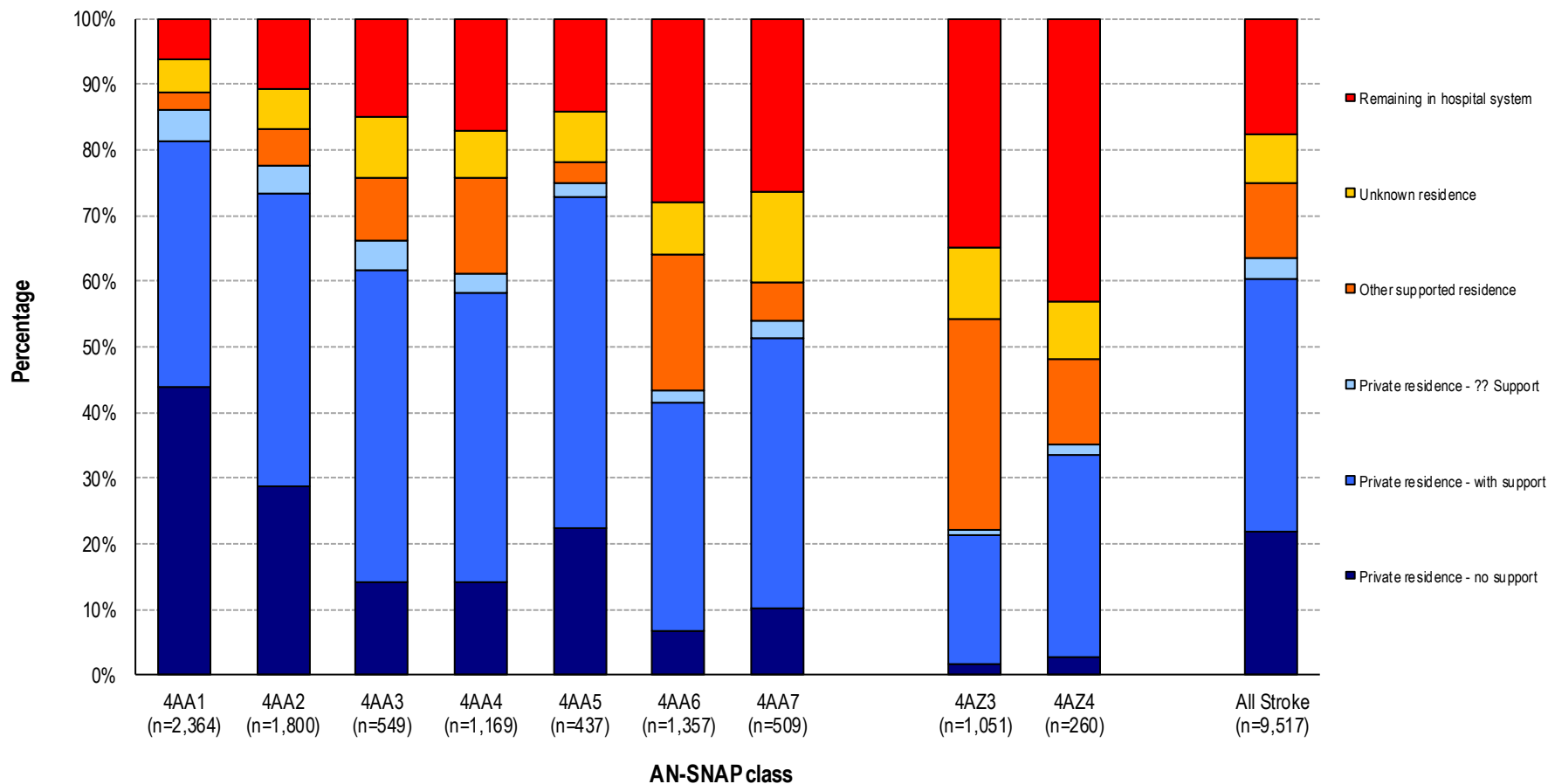


Stroke episodes in 2017

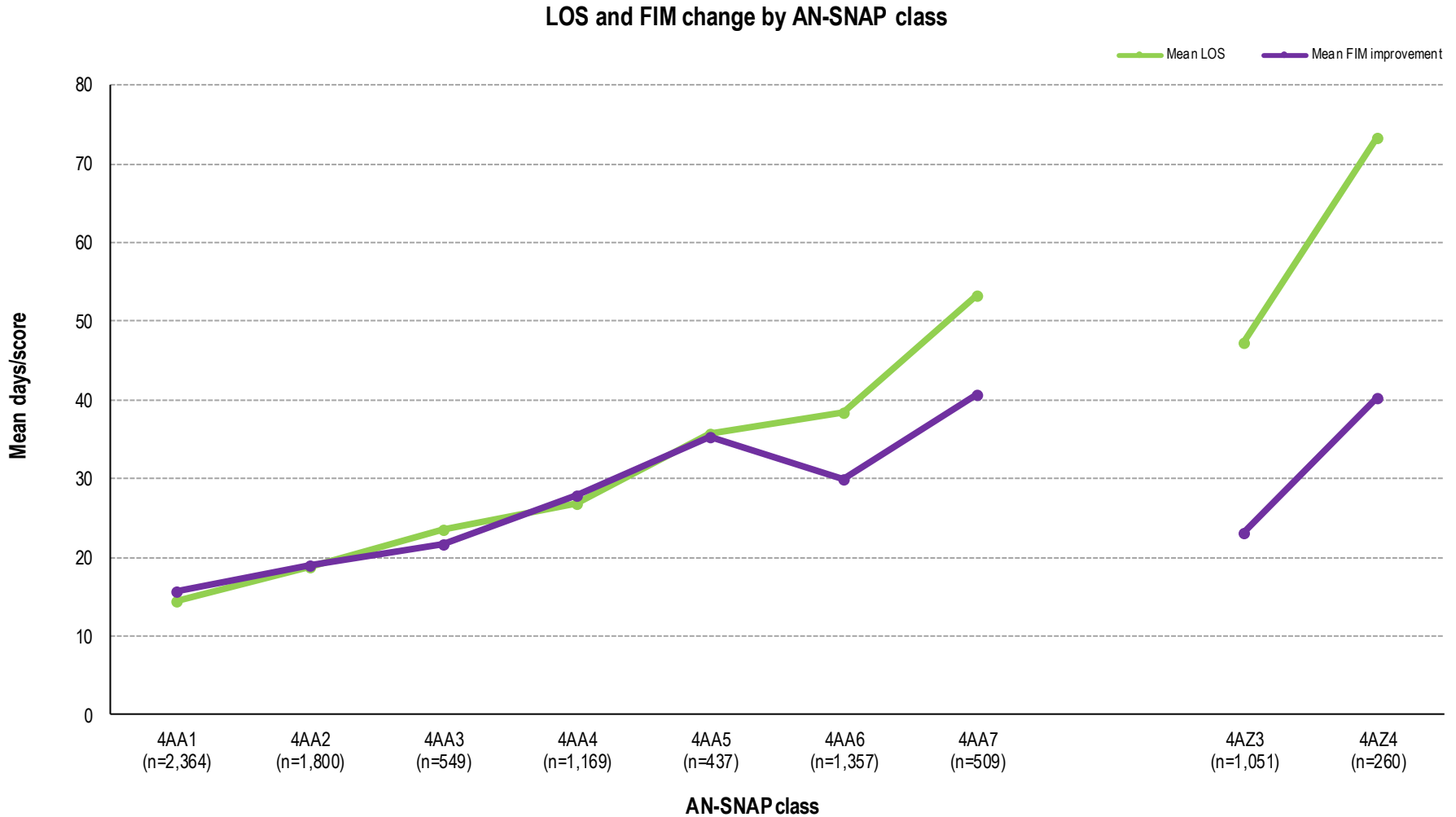
AN-SNAP class:	4AA1	4AA2	4AA3	4AA4	4AA5	4AA6	4AA7	4AZ3	4AZ4	All Stroke
Number of episodes	2,364	1,800	549	1,169	437	1,357	509	1,051	260	9,517
Proportion of episodes	24.8%	18.9%	5.8%	12.3%	4.6%	14.3%	5.3%	11.0%	2.7%	100.0%
Sector (%)										
<i>Private</i>	30.8%	24.6%	13.5%	21.5%	10.5%	17.2%	8.8%	8.9%	3.8%	20.3%
<i>Public</i>	69.2%	75.4%	86.5%	78.5%	89.5%	82.8%	91.2%	91.1%	96.2%	79.7%
Gender (%)										
<i>Female</i>	45.0%	42.9%	40.4%	50.4%	38.0%	49.8%	36.7%	49.6%	39.2%	45.3%
<i>Male</i>	55.0%	57.1%	59.4%	49.6%	62.0%	50.1%	63.3%	50.4%	60.4%	54.6%
Age (Mean+95%CI)	71.9 (71.4-72.5)	73.6 (72.9-74.2)	72.6 (71.5-73.7)	81.3 (80.9-81.8)	56.2 (55.2-57.1)	80.4 (80.0-80.8)	56.2 (55.4-57.1)	79.5 (79.0-79.9)	52.3 (51.1-53.5)	73.4 (73.1-73.6)
Admission FIM (Mean+95%CI)	100.5 (100.0-100.9)	90.0 (89.5-90.6)	79.2 (78.1-80.3)	67.1 (66.5-67.6)	67.9 (67.0-68.8)	48.7 (48.1-49.3)	49.3 (48.3-50.3)	29.2 (28.6-29.8)	27.9 (26.7-29.2)	74.5 (73.9-75.0)
LOS (Mean+95%CI)	14.4 (13.9-14.8)	18.8 (18.1-19.5)	23.6 (22.3-24.9)	26.9 (25.8-28.0)	35.7 (33.1-38.3)	38.3 (37.0-39.6)	53.2 (50.1-56.4)	47.2 (45.2-49.2)	73.4 (65.7-81.1)	27.4 (26.9-28.0)
Discharge destination (%)										
<i>Discharged to community</i>	93.9%	89.2%	85.2%	82.8%	85.8%	72.1%	73.6%	65.2%	56.9%	82.4%
<i>Remaining in hospital system</i>	6.1%	10.8%	14.8%	17.2%	14.2%	27.9%	26.4%	34.8%	43.1%	17.6%
FIM change (Mean+95%CI)	15.6 (15.2-16.0)	18.9 (18.4-19.4)	21.6 (20.3-22.8)	27.9 (27.0-28.9)	35.4 (33.9-36.9)	29.9 (28.7-31.2)	40.6 (38.5-42.7)	23.2 (21.5-24.8)	40.4 (36.0-44.7)	23.3 (23.0-23.7)
FIM efficiency (FIM change/LOS)	1.1	1.0	0.9	1.0	1.0	0.8	0.8	0.5	0.5	0.9

Stroke discharge destination by AN-SNAP class

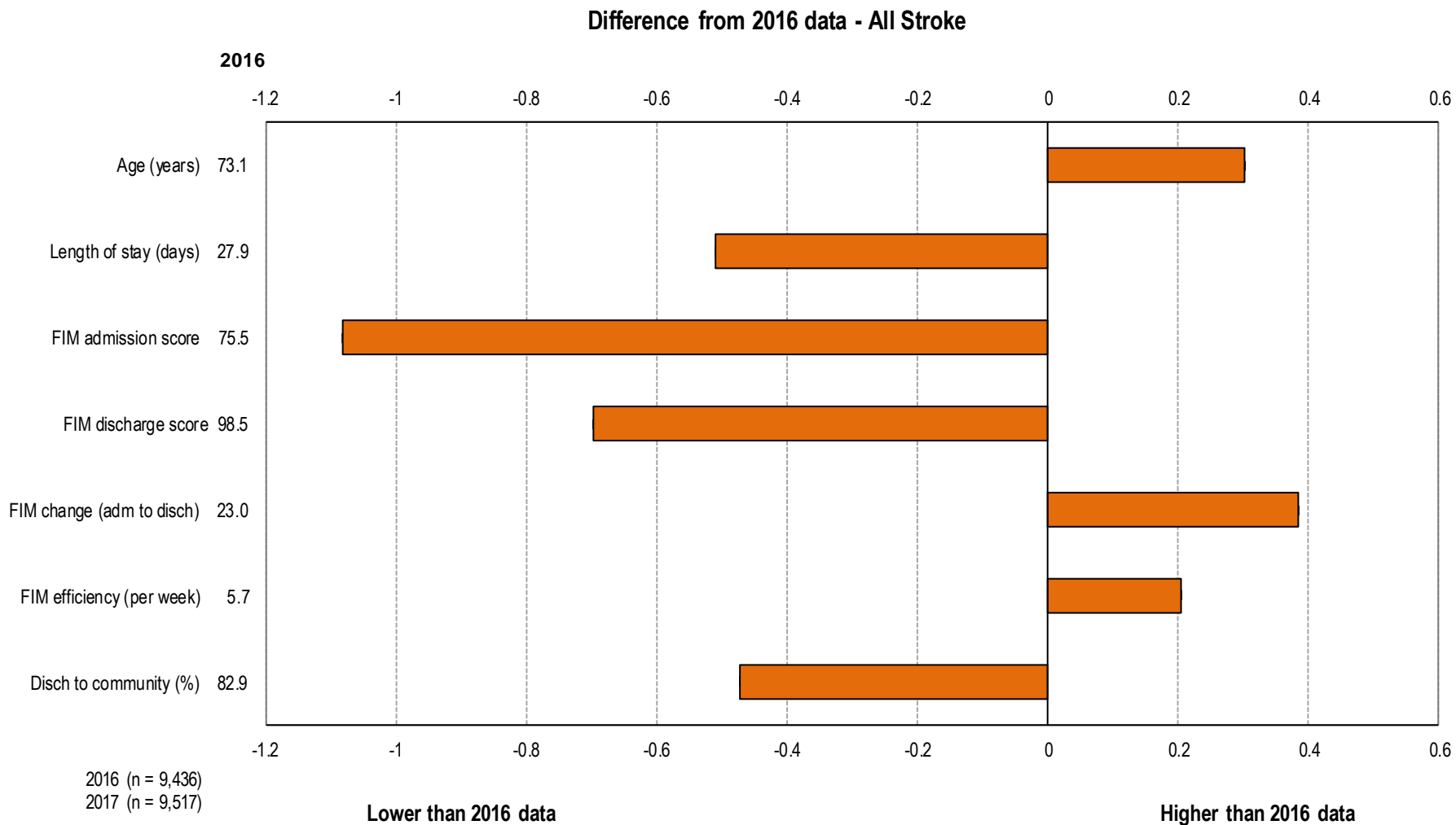
Discharge destination - Stroke



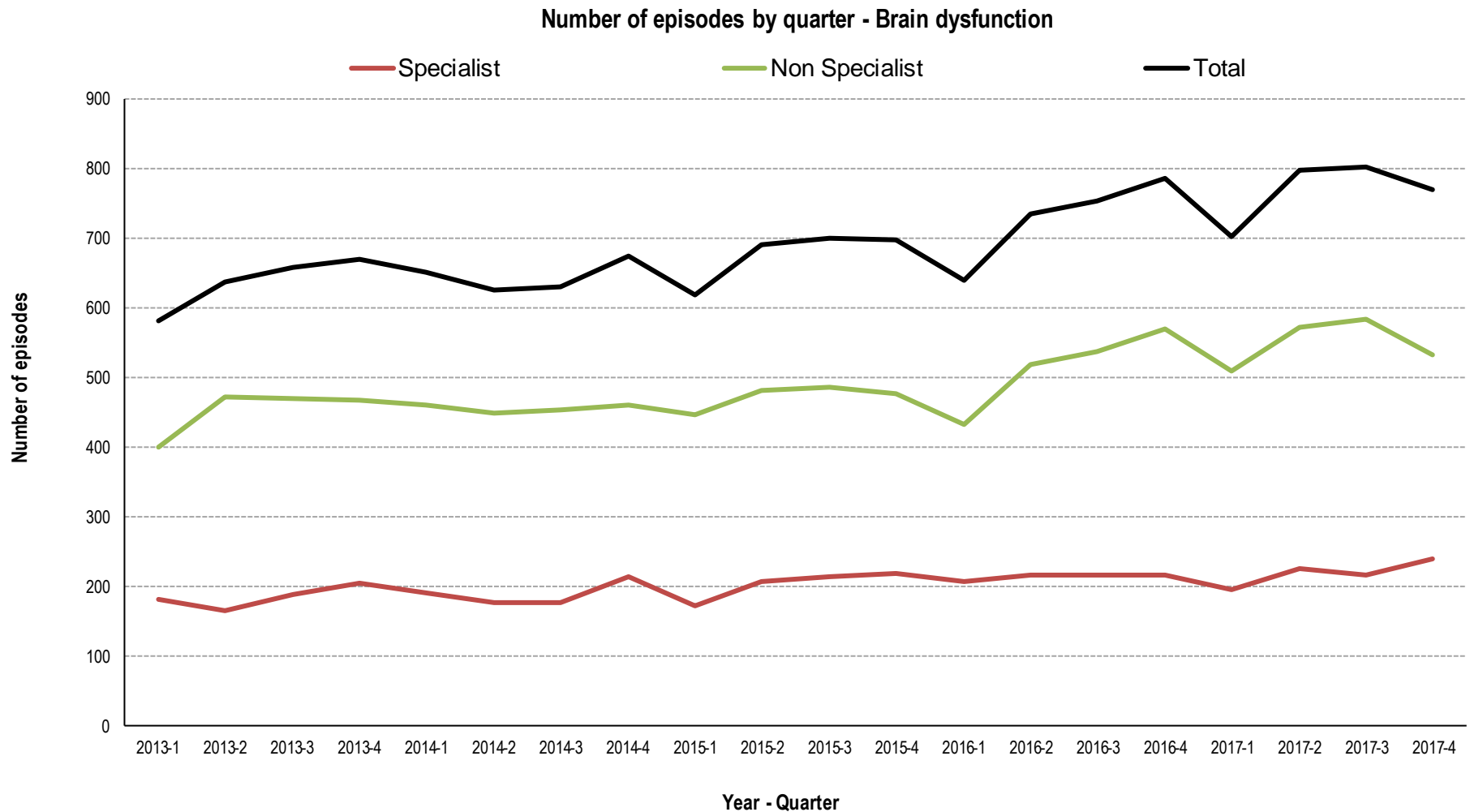
Stroke LOS and FIM change by AN-SNAP class



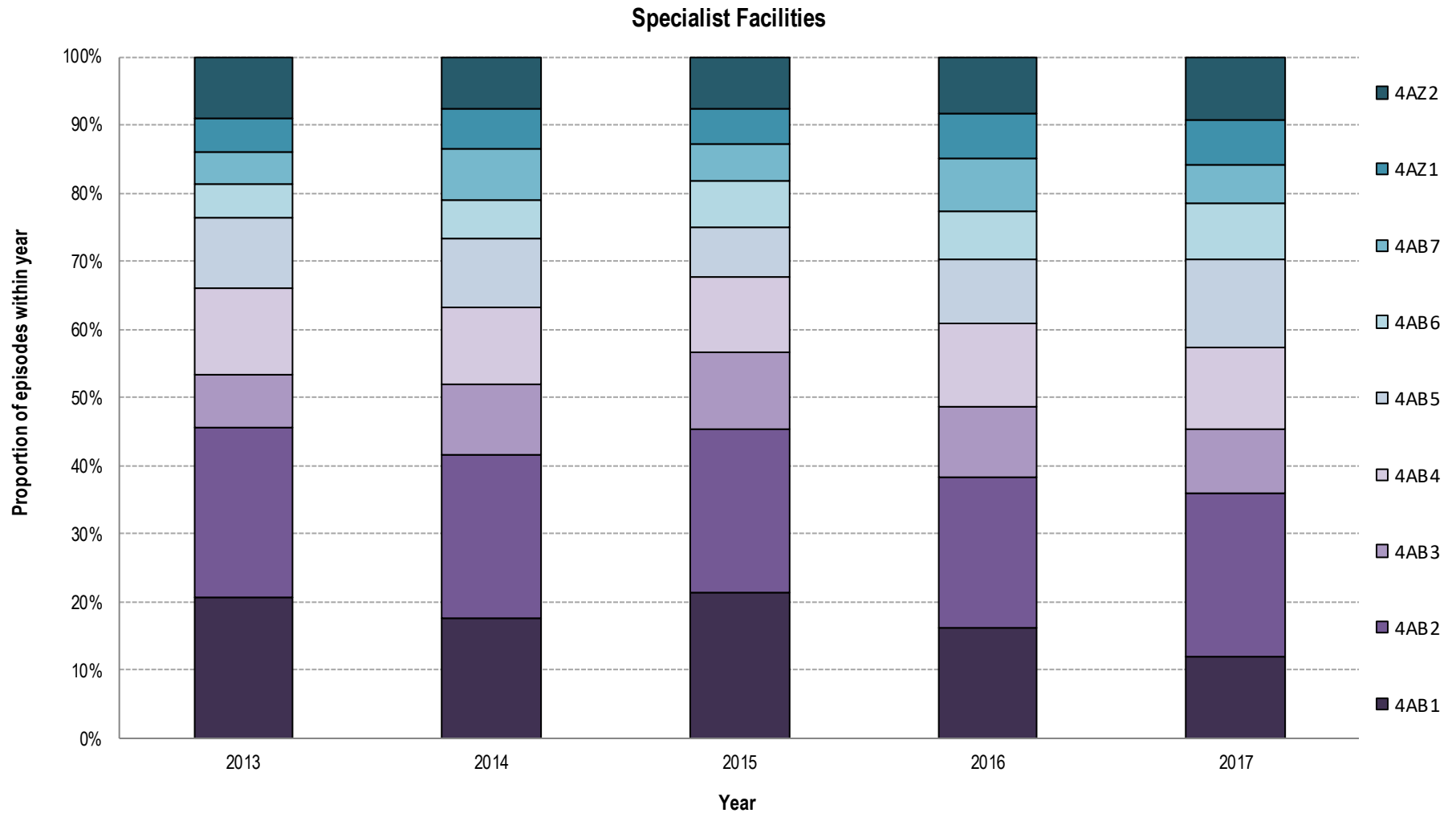
Change in outcome measures in stroke, 2016 to 2017



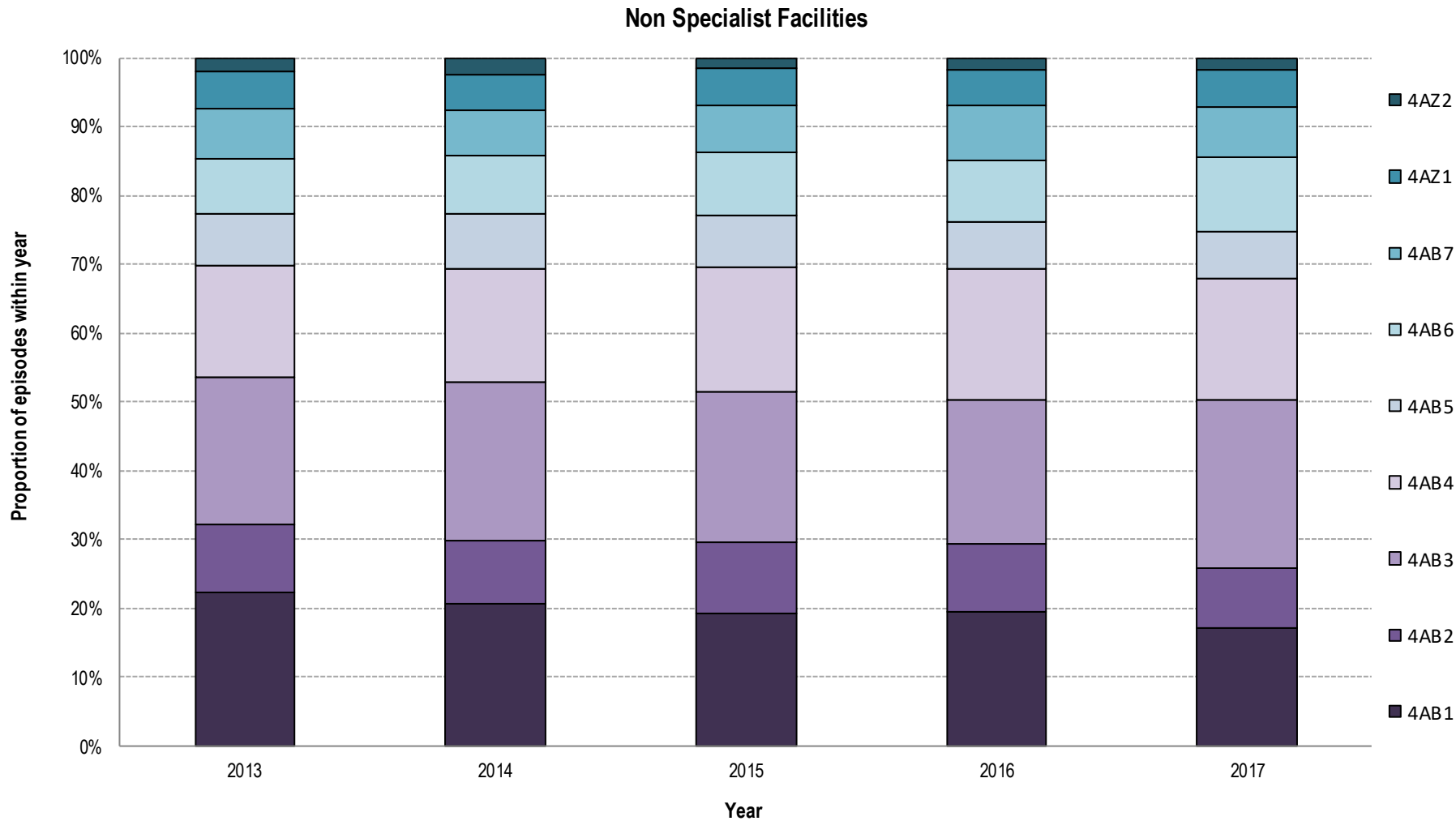
Brain dysfunction episodes over time



Brain dysfunction casemix over time – Specialist facilities



Brain dysfunction casemix over time – Non specialist facilities



Brain dysfunction episodes in 2017 - Specialist facilities

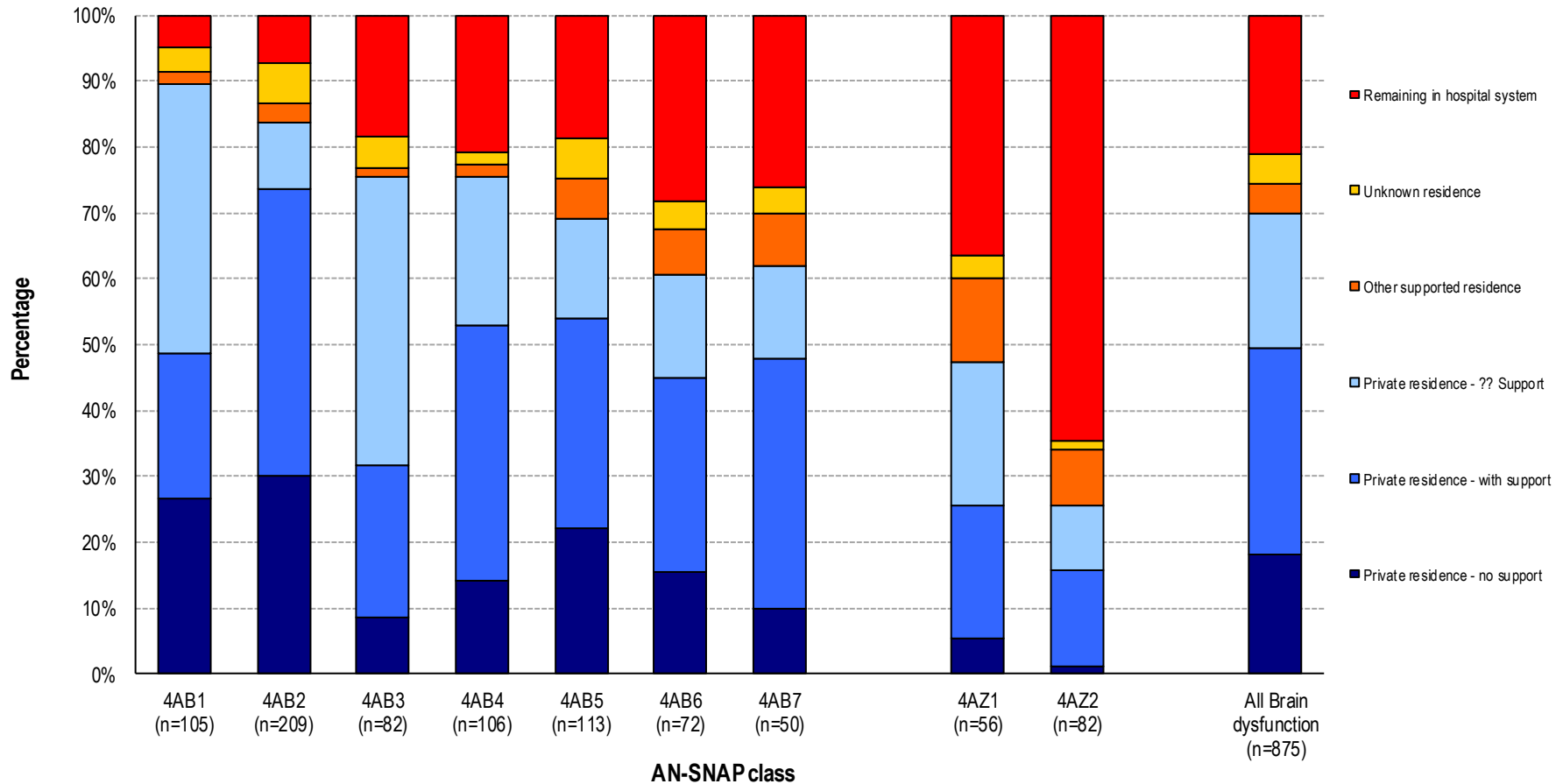
AN-SNAP class:	4AB1	4AB2	4AB3	4AB4	4AB5	4AB6	4AB7	4AZ1	4AZ2	All Brain dysfunction
Number of episodes	105	209	82	106	113	72	50	56	82	875
Proportion of episodes	12.0%	23.9%	9.4%	12.1%	12.9%	8.2%	5.7%	6.4%	9.4%	100.0%
Sector (%)										
<i>Private</i>	42.9%	2.9%	48.8%	16.0%	8.8%	6.9%	2.0%	5.4%	1.2%	14.6%
<i>Public</i>	57.1%	97.1%	51.2%	84.0%	91.2%	93.1%	98.0%	94.6%	98.8%	85.4%
Gender (%)										
<i>Female</i>	30.5%	25.8%	42.7%	32.1%	36.3%	29.2%	40.0%	37.5%	34.1%	32.7%
<i>Male</i>	69.5%	74.2%	57.3%	67.9%	63.7%	70.8%	60.0%	62.5%	65.9%	67.3%
Age (Mean+95%CI)	50.4 (46.6-54.3)	44.3 (42.1-46.5)	58.4 (53.7-63.1)	52.6 (48.6-56.6)	48.3 (45.1-51.6)	47.1 (42.9-51.4)	49.5 (44.7-54.2)	60.9 (59.0-62.8)	32.2 (30.0-34.4)	48.3 (47.1-49.6)
Admission FIM (Mean+95%CI)	109.2 (107.6-110.8)	99.0 (97.6-100.4)	88.8 (87.0-90.6)	77.0 (75.1-78.9)	67.6 (65.6-69.6)	47.8 (45.9-49.7)	37.2 (35.4-39.1)	22.4 (20.6-24.2)	22.5 (19.9-25.1)	78.7 (76.6-80.8)
LOS (Mean+95%CI)	13.2 (11.3-15.0)	28.0 (24.2-31.7)	22.5 (18.4-26.6)	29.8 (23.8-35.8)	43.8 (37.4-50.2)	57.2 (40.6-73.9)	63.2 (48.2-78.3)	01.8 (81.0-122.7)	14.8 (81.0-148.5)	38.3 (35.0-41.6)
Discharge destination (%)										
<i>Discharged to community</i>	74.6%	82.9%	47.2%	50.6%	56.8%	35.4%	35.6%	36.1%	29.0%	53.7%
<i>Remaining in hospital system</i>	25.4%	17.1%	52.8%	49.4%	43.2%	64.6%	64.4%	63.9%	71.0%	46.3%
FIM change (Mean+95%CI)	10.7 (8.7-12.6)	15.3 (13.6-17.1)	23.9 (21.0-26.8)	31.4 (28.5-34.4)	37.4 (33.9-40.9)	49.9 (44.2-55.5)	49.3 (40.6-58.0)	66.5 (54.3-78.7)	62.0 (47.6-76.4)	29.2 (27.3-31.0)
FIM efficiency (FIM change/LOS)	0.8	0.5	1.1	1.1	0.9	0.9	0.8	0.7	0.5	0.8

Brain dysfunction episodes in 2017 - Non specialist facilities

AN-SNAP class:	4AB1	4AB2	4AB3	4AB4	4AB5	4AB6	4AB7	4AZ1	4AZ2	All Brain dysfunction
Number of episodes	376	188	536	387	153	235	161	119	37	2,195
Proportion of episodes	17.1%	8.6%	24.4%	17.6%	7.0%	10.7%	7.3%	5.4%	1.7%	100.0%
Sector (%)										
<i>Private</i>	33.8%	15.4%	42.5%	28.2%	19.6%	18.3%	14.9%	11.8%	13.5%	27.7%
<i>Public</i>	66.2%	84.6%	57.5%	71.8%	80.4%	81.7%	85.1%	88.2%	86.5%	72.3%
Gender (%)										
<i>Female</i>	47.3%	31.9%	54.1%	41.3%	42.5%	43.0%	45.3%	51.3%	29.7%	45.6%
<i>Male</i>	52.7%	68.1%	45.9%	58.7%	57.5%	57.0%	54.7%	48.7%	70.3%	54.4%
Age (Mean+95%CI)	63.9 (62.2-65.6)	57.3 (54.9-59.7)	70.1 (68.8-71.5)	70.6 (69.1-72.1)	65.6 (63.0-68.1)	68.0 (65.7-70.3)	64.7 (61.9-67.4)	70.7 (68.7-72.8)	35.6 (32.6-38.5)	66.5 (65.8-67.2)
Admission FIM (Mean+95%CI)	107.3 (106.5-108.0)	97.8 (96.5-99.1)	86.9 (86.2-87.7)	75.2 (74.3-76.2)	65.2 (63.4-67.0)	51.8 (50.6-53.1)	39.7 (38.1-41.2)	24.7 (23.1-26.3)	25.8 (22.0-29.5)	79.0 (77.9-80.2)
LOS (Mean+95%CI)	12.5 (11.6-13.3)	17.9 (15.5-20.4)	18.6 (17.3-19.8)	22.5 (21.1-24.0)	28.8 (25.0-32.6)	30.8 (28.3-33.3)	41.8 (35.1-48.6)	50.6 (43.9-57.4)	94.6 (58.1-131.0)	23.3 (22.3-24.3)
Discharge destination (%)										
<i>Discharged to community</i>	91.1%	80.3%	86.3%	80.0%	59.5%	63.2%	61.3%	54.7%	21.1%	74.9%
<i>Remaining in hospital system</i>	8.9%	19.7%	13.7%	20.0%	40.5%	36.8%	38.7%	45.3%	78.9%	25.1%
FIM change (Mean+95%CI)	10.5 (9.8-11.3)	14.3 (13.0-15.7)	22.8 (21.8-23.8)	26.4 (24.9-27.9)	29.7 (26.5-32.9)	33.6 (30.6-36.7)	35.8 (30.9-40.8)	37.1 (29.9-44.3)	40.6 (24.0-57.2)	23.3 (22.5-24.1)
FIM efficiency (FIM change/LOS)	0.8	0.8	1.2	1.2	1.0	1.1	0.9	0.7	0.4	1.0

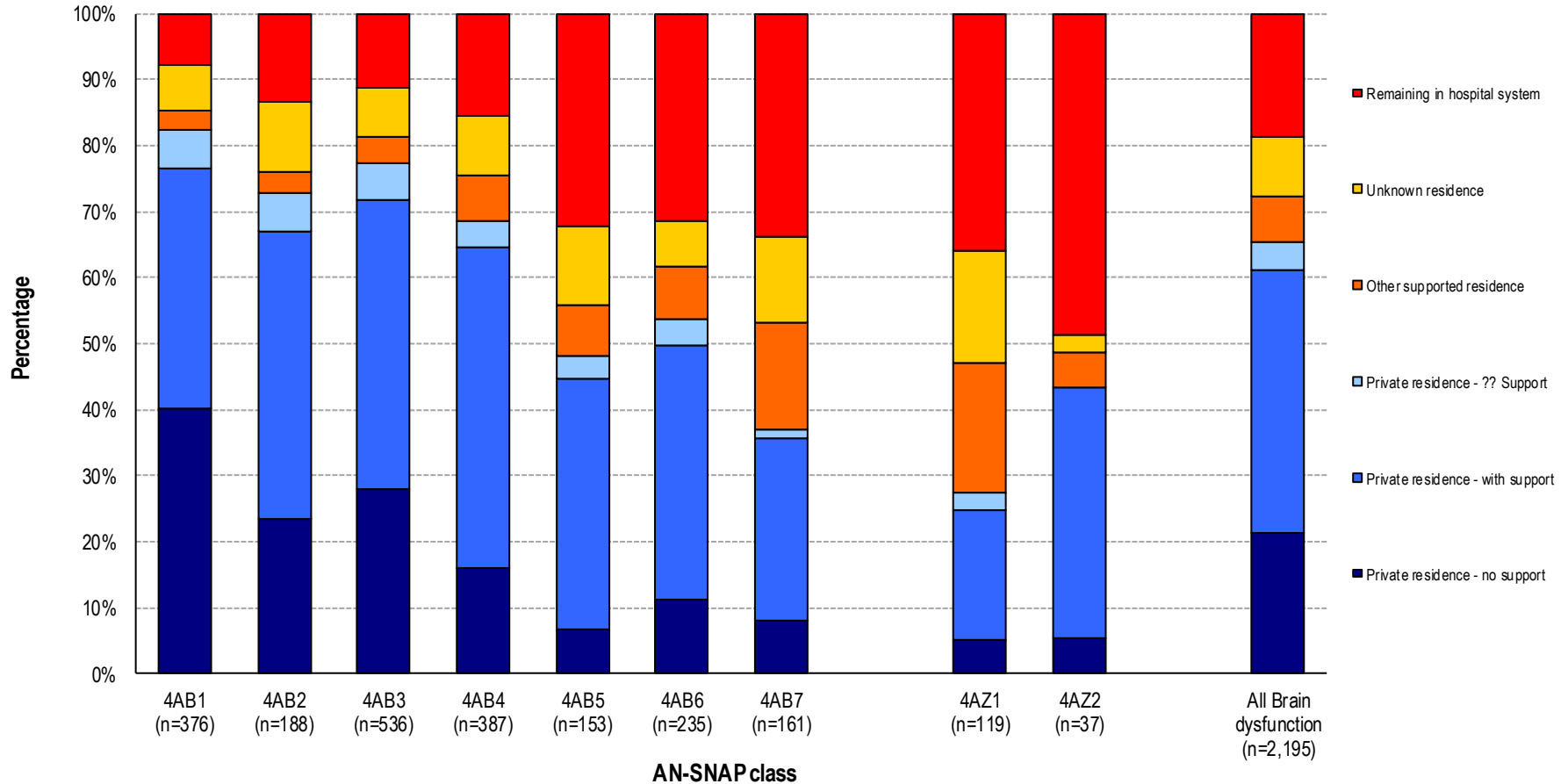
Brain dysfunction discharge destination by AN-SNAP Class – Specialist facilities

Specialist - Discharge destination - Brain dysfunction



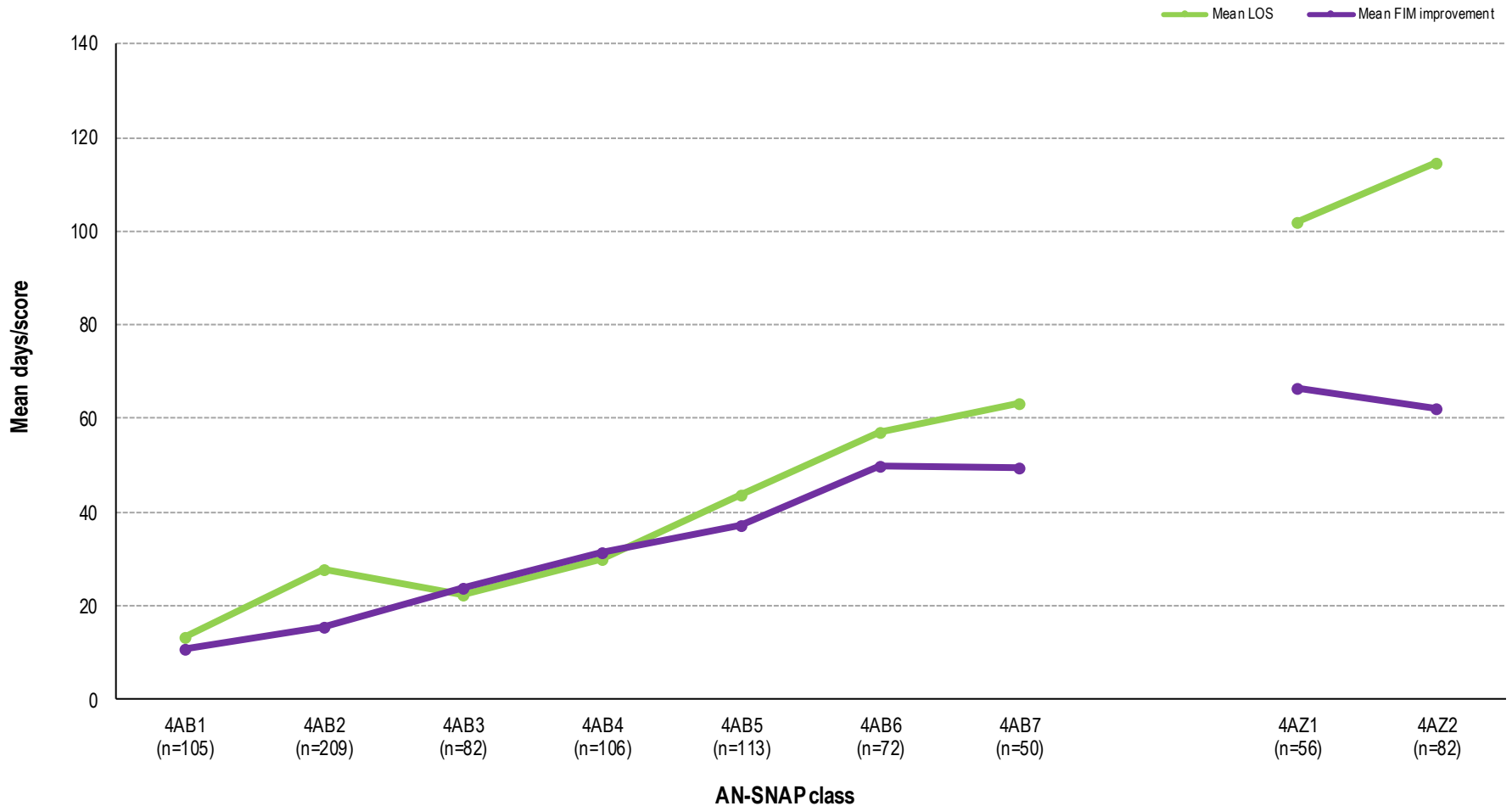
Brain dysfunction discharge destination by AN-SNAP Class – Non specialist facilities

Non specialist - Discharge destination - Brain dysfunction



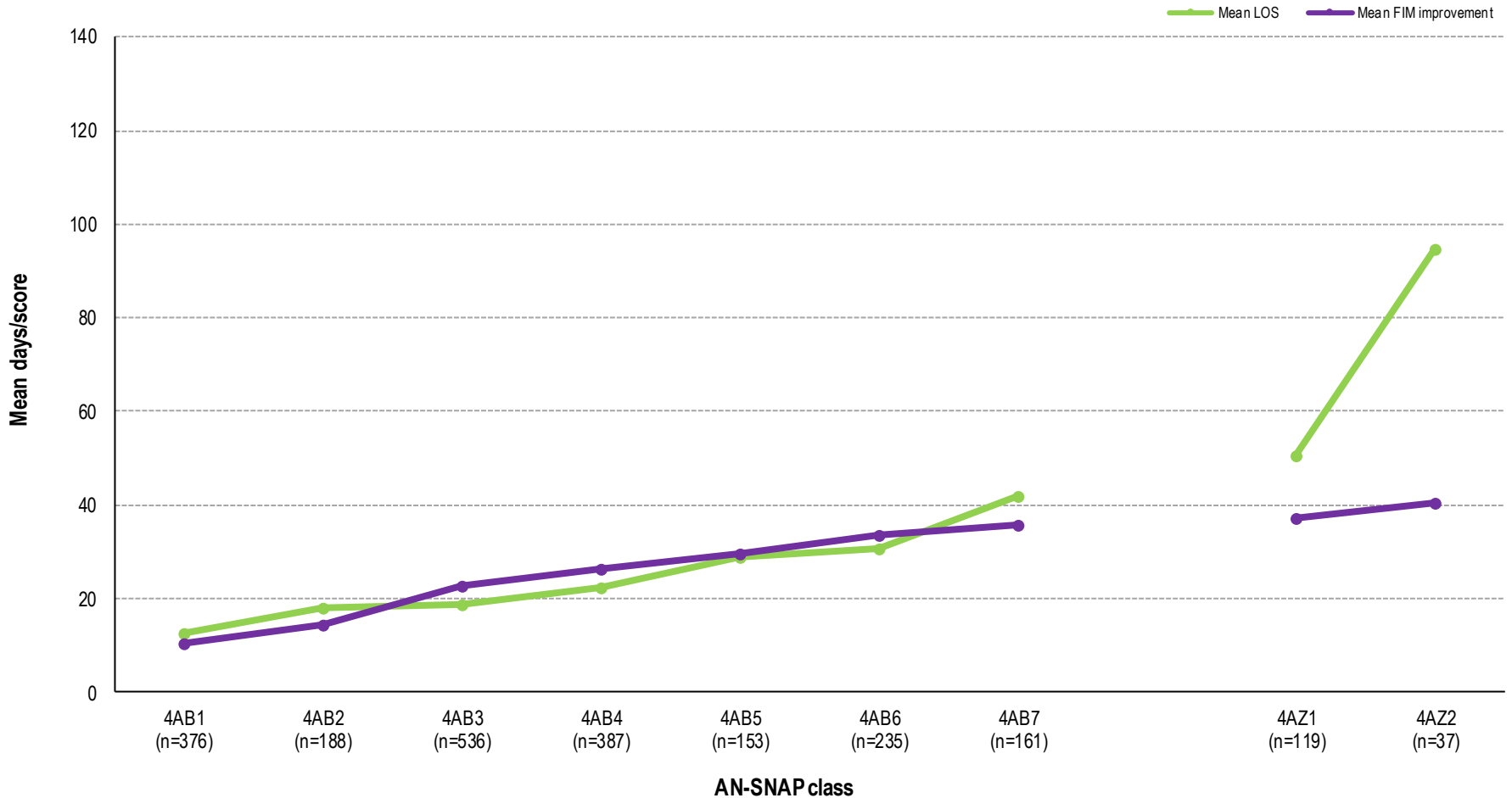
Brain dysfunction LOS and FIM change by AN-SNAP Class – Specialist facilities

Specialist - LOS and FIM change by AN-SNAP class



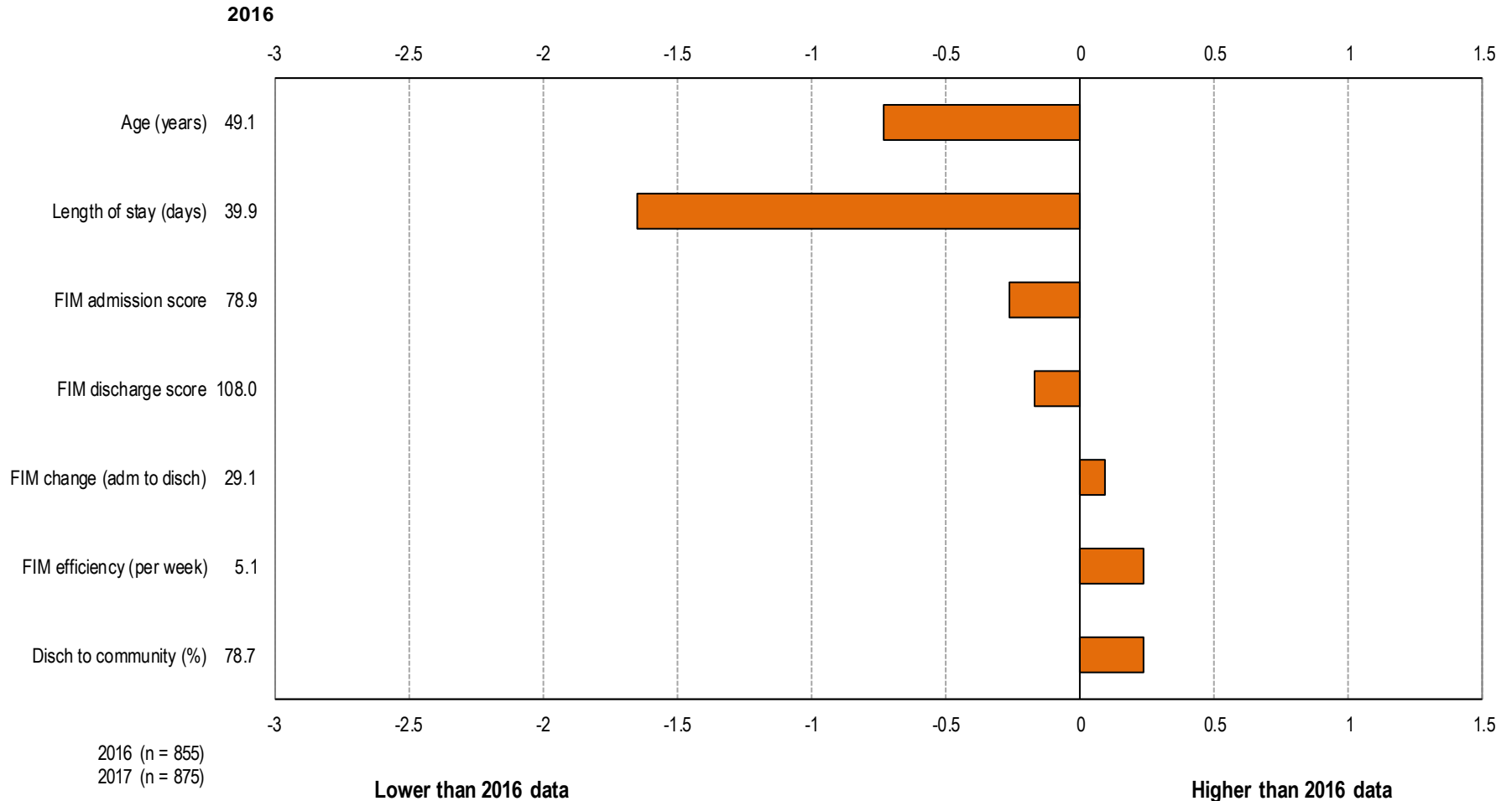
Brain dysfunction LOS and FIM change by AN-SNAP Class – Non specialist facilities

Non specialist - LOS and FIM change by AN-SNAP class



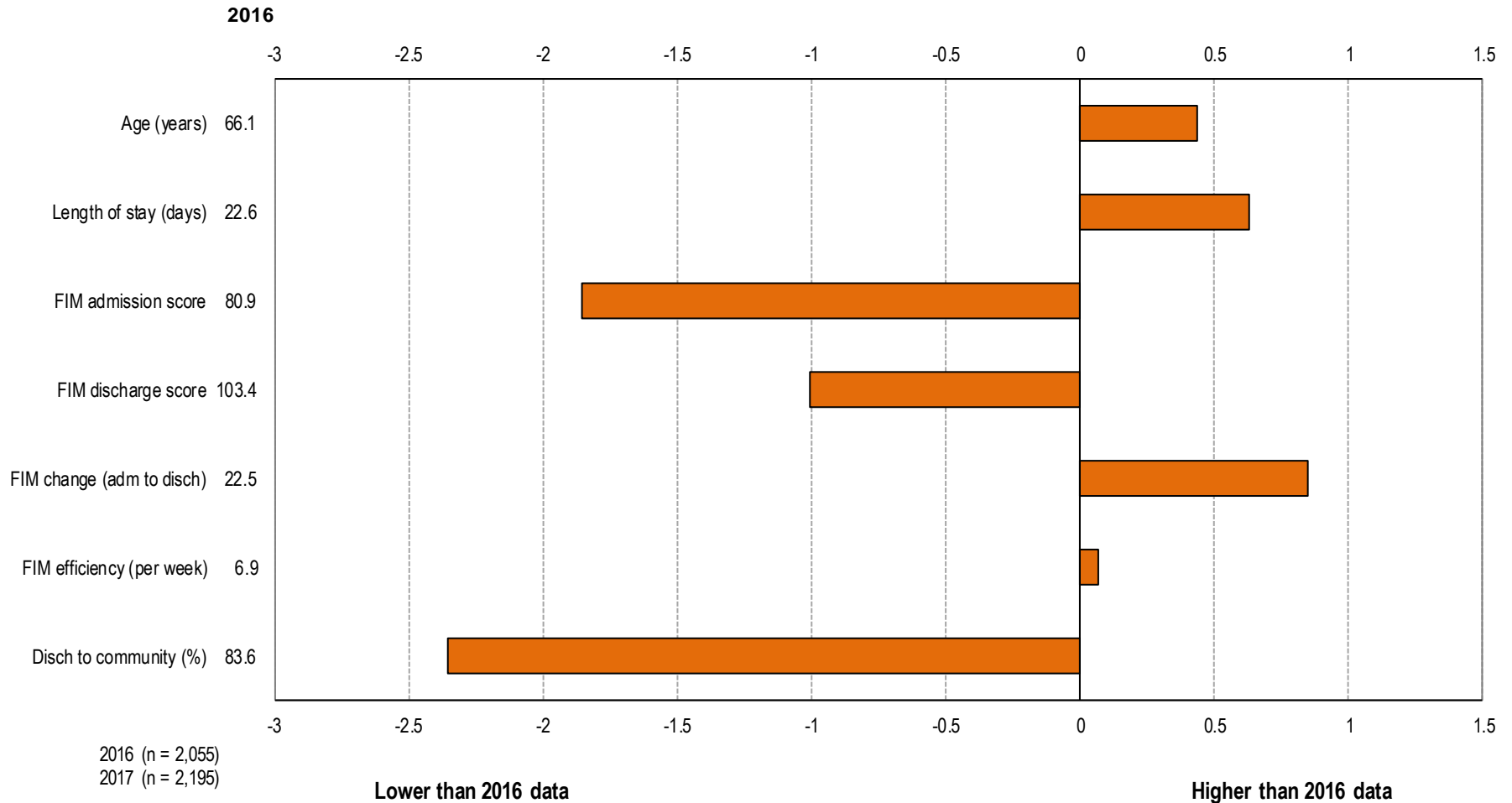
Change in outcome measures in brain dysfunction, 2016 to 2017 - Specialist facilities

Specialist - Difference from 2016 data - All Brain dysfunction



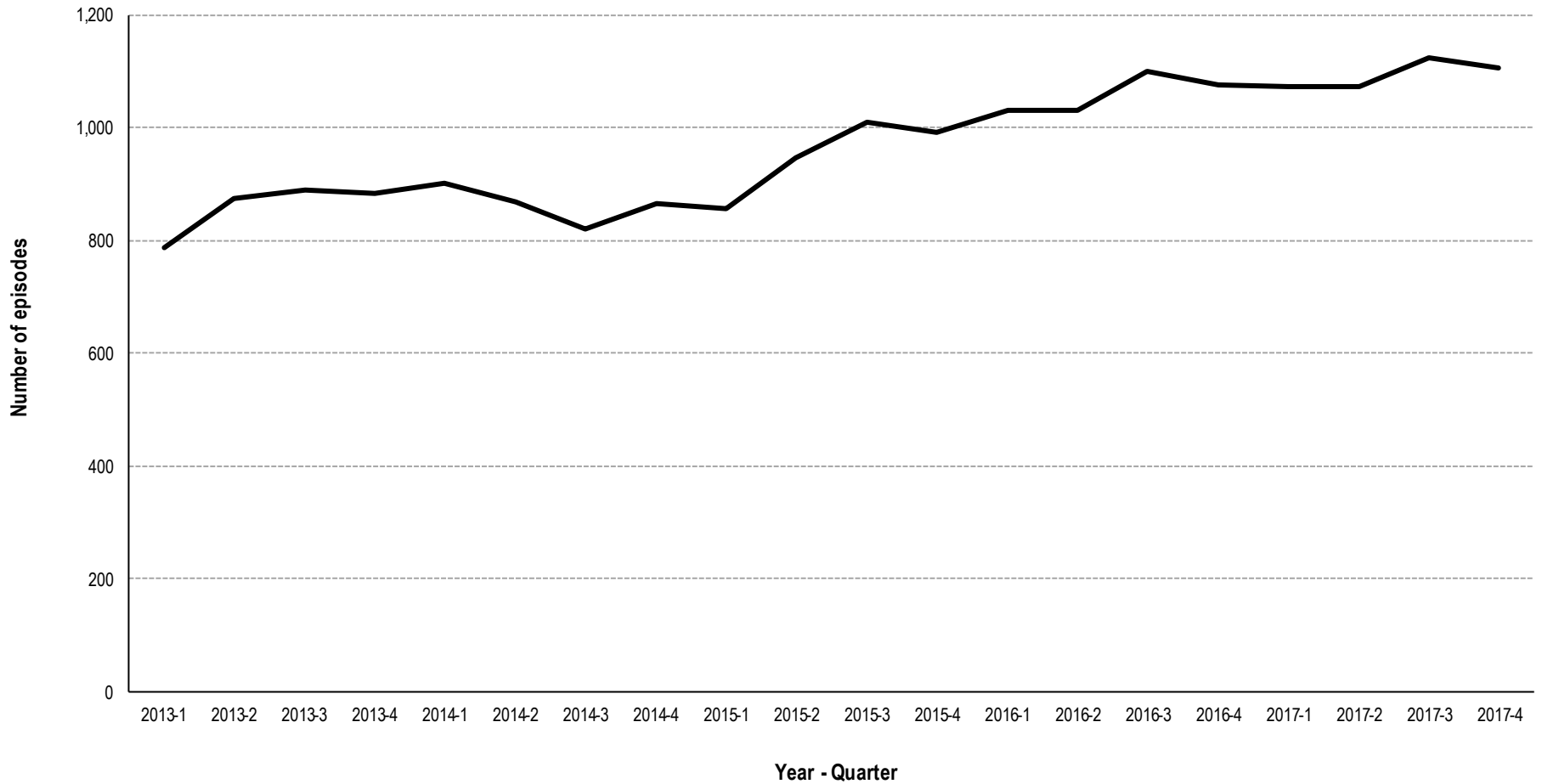
Change in outcome measures in brain dysfunction, 2016 to 2017 - Non specialist facilities

Non specialist - Difference from 2016 data - All Brain dysfunction

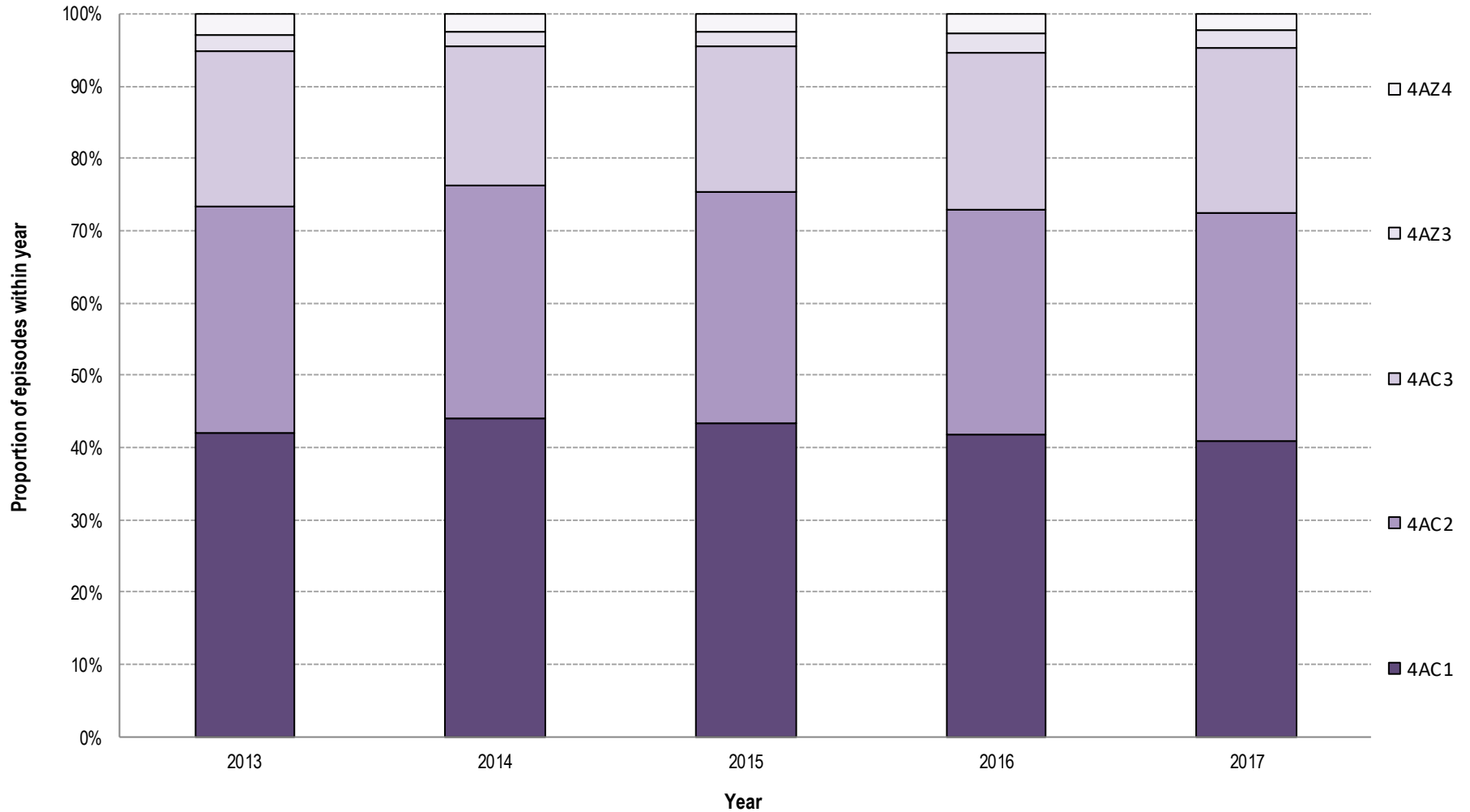


Neurological conditions episodes over time

Number of episodes by quarter - Neurological conditions



Neurological conditions casemix over time



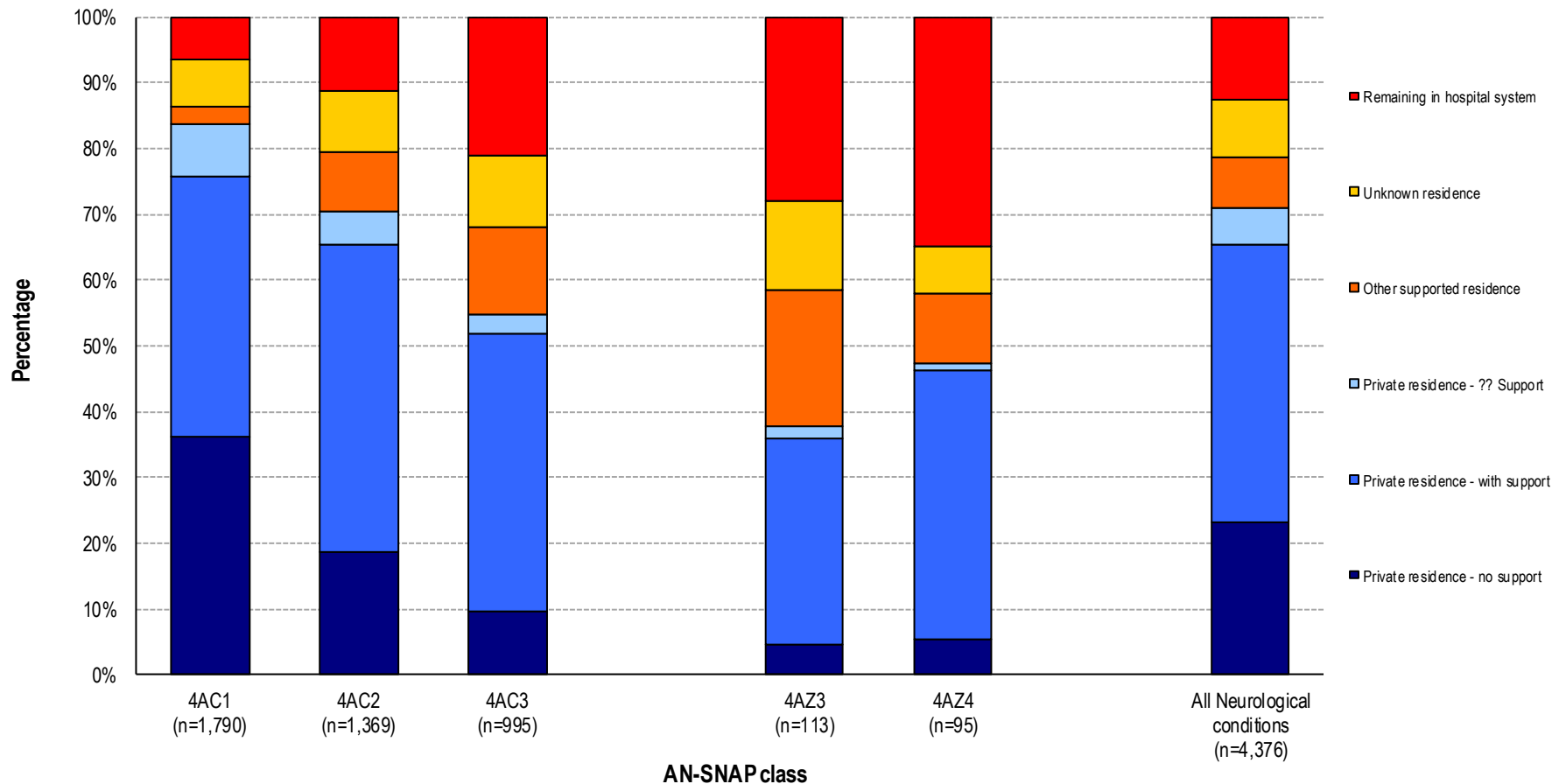
Neurological conditions episodes in 2017



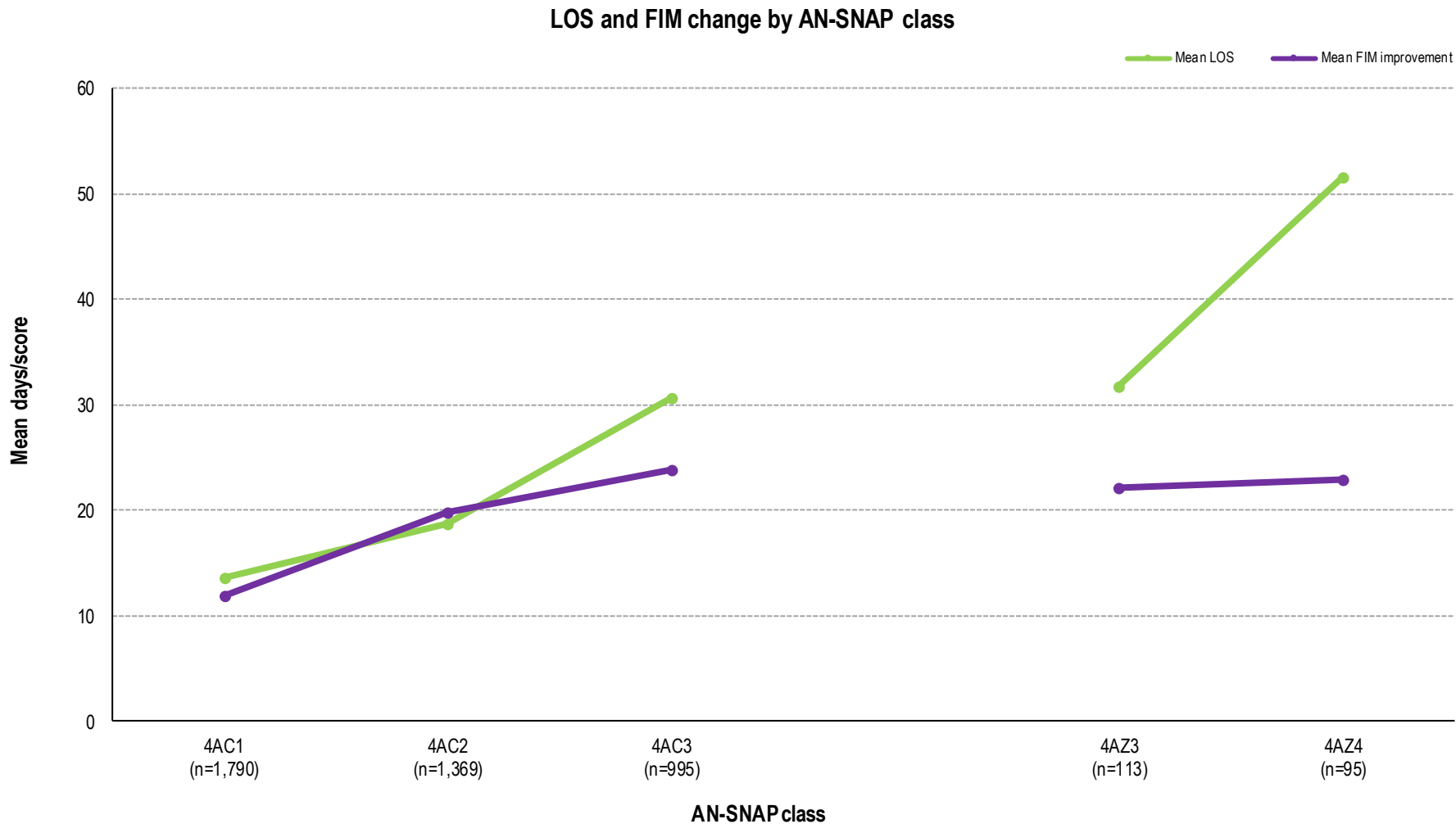
AN-SNAP class:	4AC1	4AC2	4AC3	4AZ3	4AZ4	All Neurological conditions
Number of episodes	1,790	1,369	995	113	95	4,376
Proportion of episodes	40.9%	31.3%	22.7%	2.6%	2.2%	100.0%
Sector (%)						
<i>Private</i>	52.8%	44.8%	32.2%	31.0%	14.7%	44.2%
<i>Public</i>	47.2%	55.2%	67.8%	69.0%	85.3%	55.8%
Gender (%)						
<i>Female</i>	52.3%	47.2%	48.4%	38.9%	53.7%	49.5%
<i>Male</i>	47.7%	52.8%	51.6%	61.1%	46.3%	50.5%
Age (Mean+95%CI)	66.2 (65.4-66.9)	70.6 (69.7-71.4)	68.1 (67.2-69.1)	76.1 (74.7-77.6)	48.3 (45.8-50.9)	67.8 (67.4-68.3)
Admission FIM (Mean+95%CI)	101.5 (101.0-101.9)	78.9 (78.4-79.4)	56.2 (55.4-57.0)	32.4 (30.2-34.6)	38.8 (36.4-41.1)	82.4 (81.7-83.1)
LOS (Mean+95%CI)	13.6 (13.2-13.9)	18.8 (18.1-19.4)	30.6 (28.8-32.5)	31.8 (26.5-37.1)	51.5 (37.1-65.9)	19.8 (19.2-20.4)
Discharge destination (%)						
<i>Discharged to community</i>	93.5%	88.7%	79.0%	72.1%	65.3%	87.5%
<i>Remaining in hospital system</i>	6.5%	11.3%	21.0%	27.9%	34.7%	12.5%
FIM change (Mean+95%CI)	12.0 (11.6-12.4)	19.7 (19.1-20.4)	23.9 (22.6-25.2)	22.1 (17.2-27.0)	22.9 (16.5-29.4)	17.3 (16.9-17.8)
FIM efficiency (FIM change/LOS)	0.9	1.1	0.8	0.7	0.4	0.9

Neurological conditions discharge destination by AN-SNAP class

Discharge destination - Neurological conditions

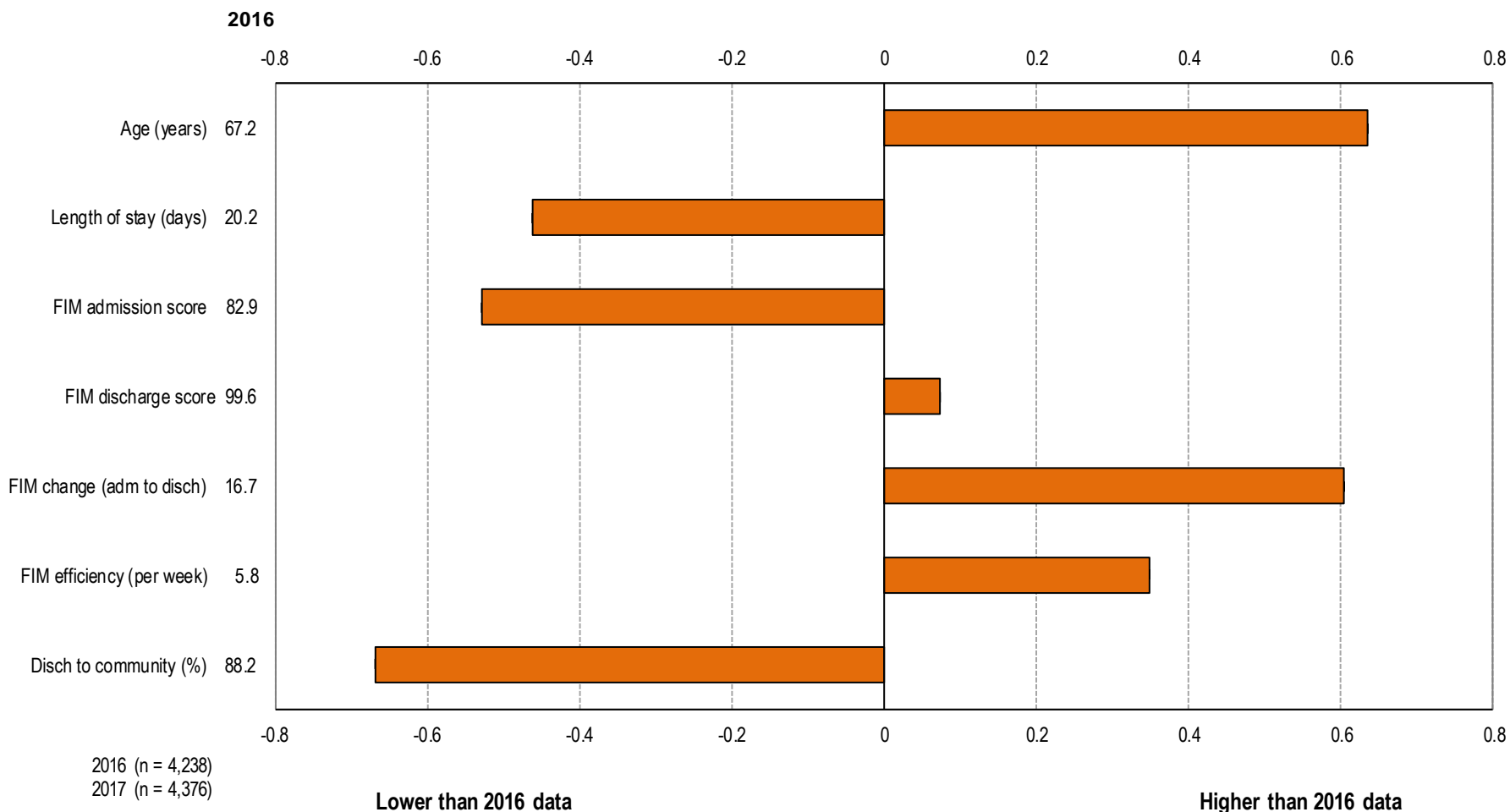


Neurological conditions LOS and FIM change by AN-SNAP class

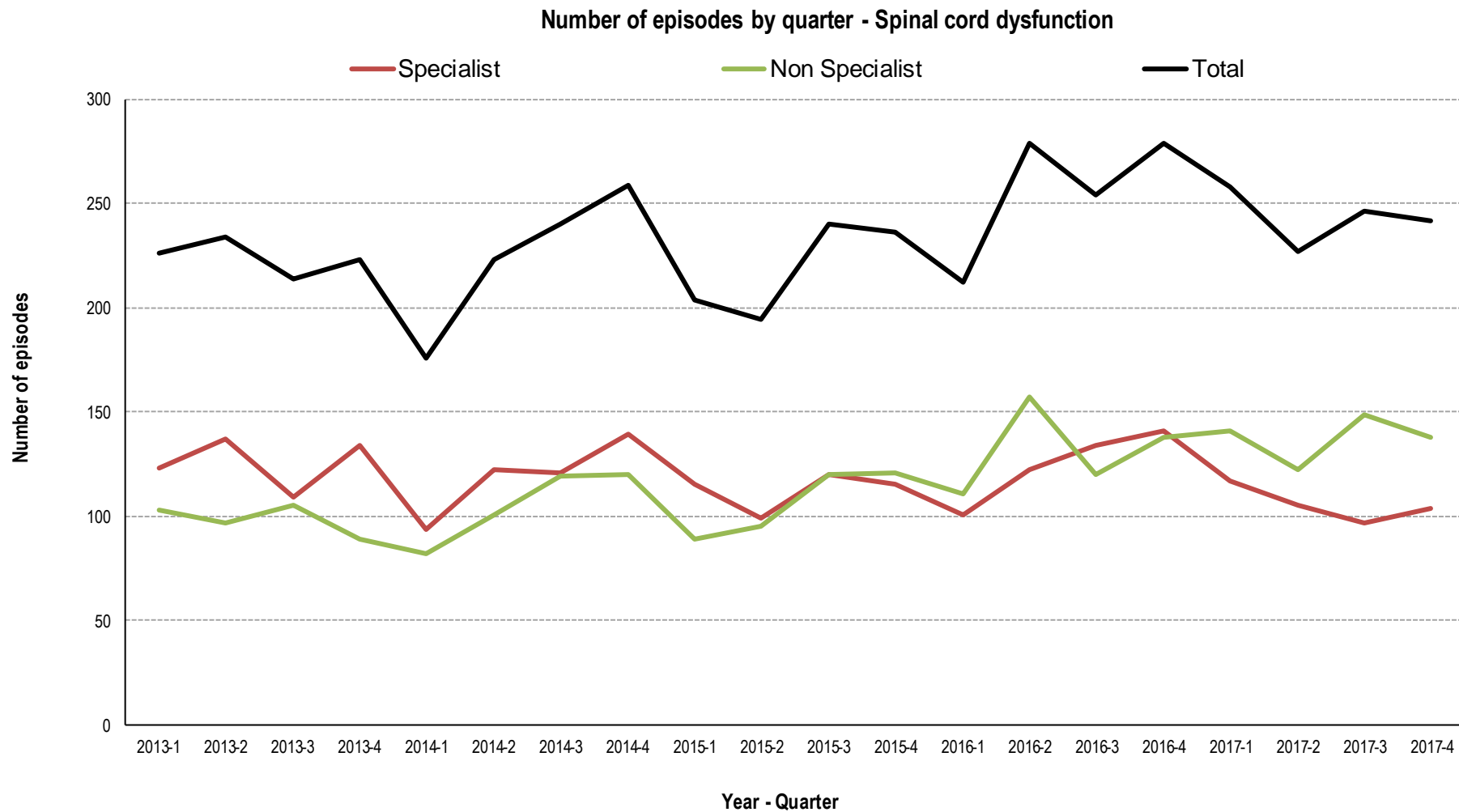


Change in outcome measures in neurological conditions, 2016 to 2017

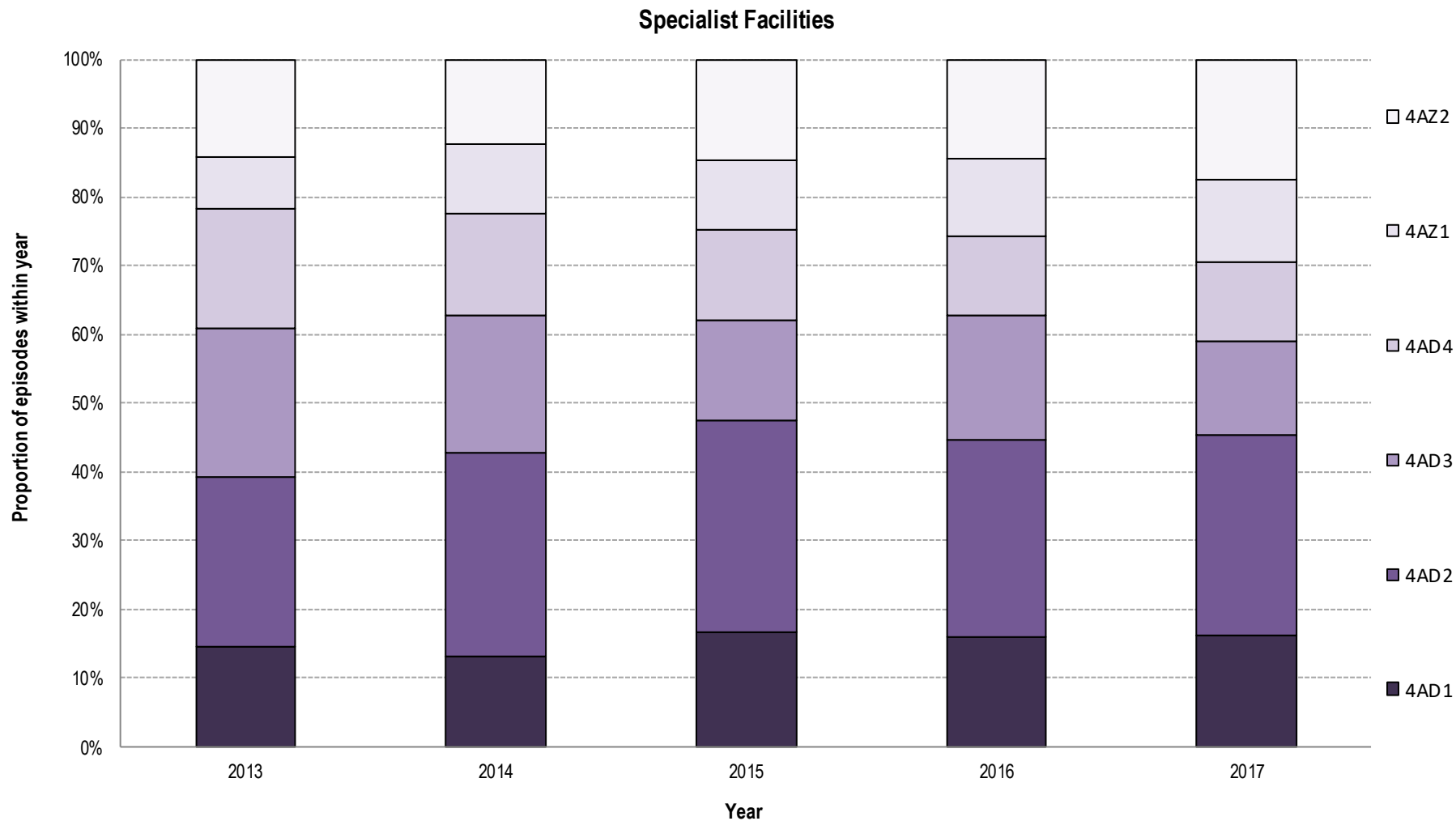
Difference from 2016 data - All Neurological conditions



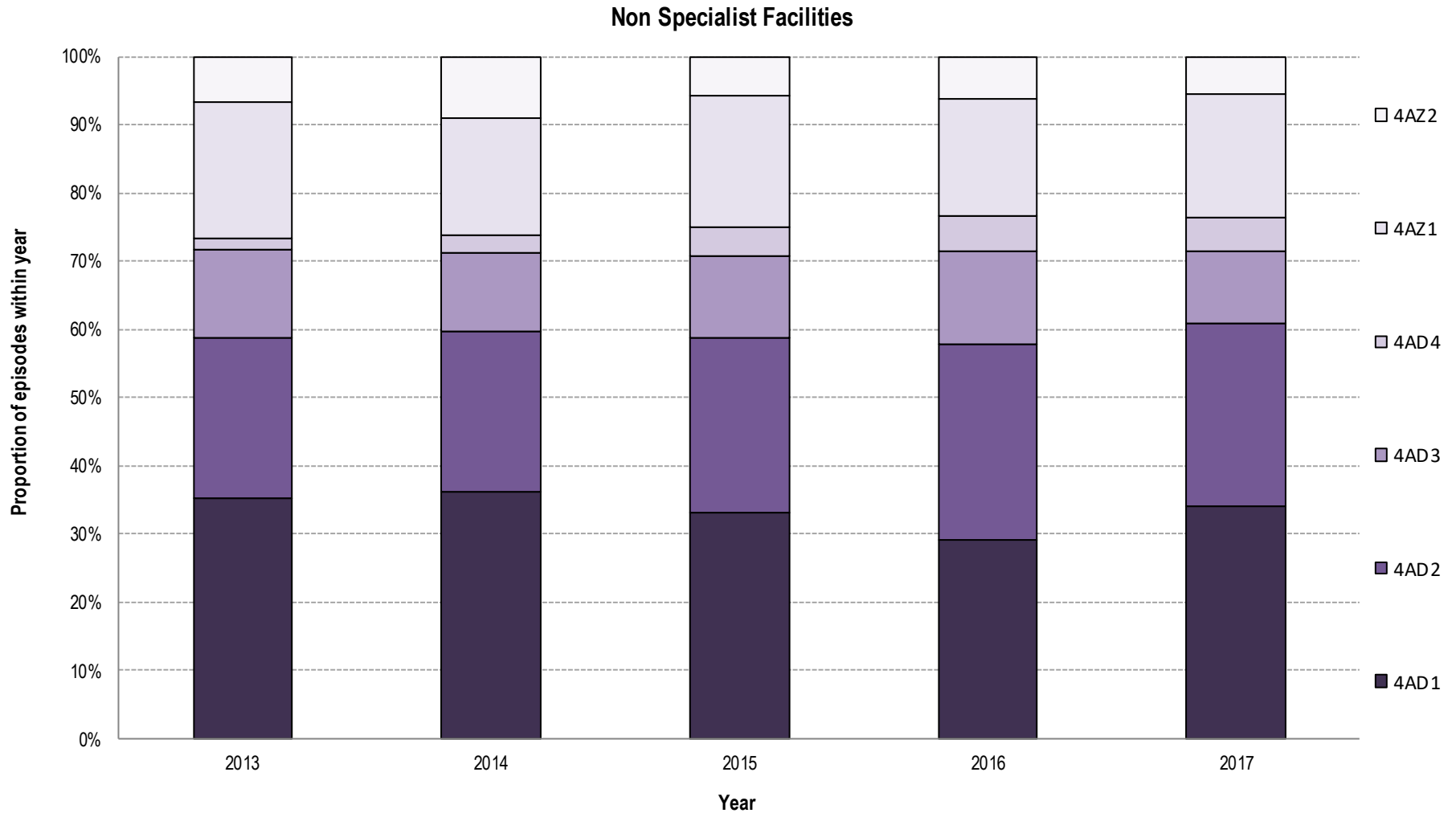
Spinal cord dysfunction episodes over time



Spinal cord dysfunction casemix over time – Specialist facilities



Spinal cord dysfunction casemix over time – Non specialist facilities



Spinal cord dysfunction episodes in 2017 - Specialist facilities



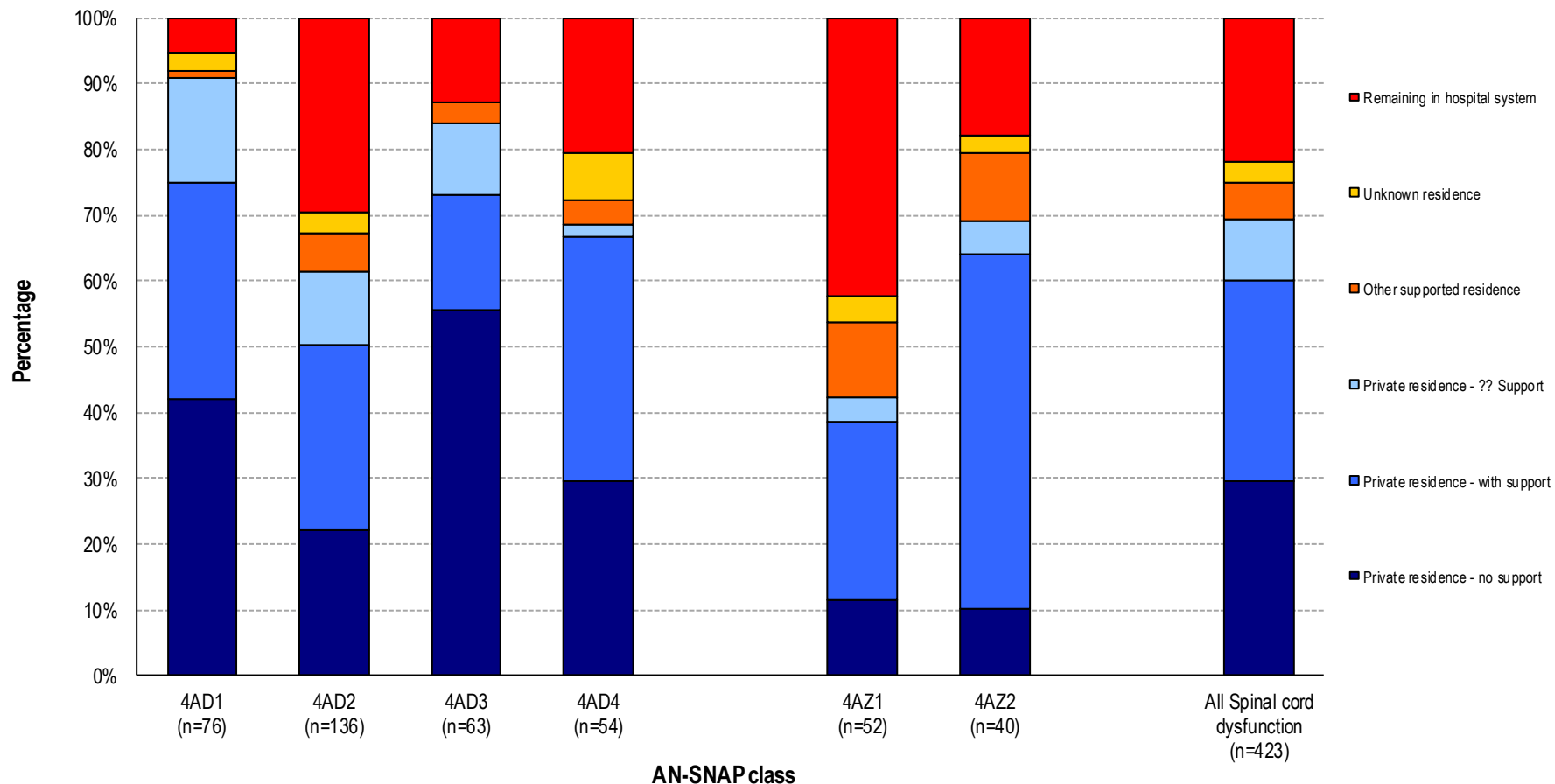
AN-SNAP class:	4AD1	4AD2	4AD3	4AD4	4AZ1	4AZ2	All Spinal cord dysfunction
Number of episodes	76	136	63	54	52	40	423
Proportion of episodes	18.0%	32.2%	14.9%	12.8%	12.3%	9.5%	100.0%
Sector (%)							
<i>Private</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Public</i>	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Gender (%)							
<i>Female</i>	34.2%	47.8%	38.1%	18.5%	21.2%	15.0%	33.8%
<i>Male</i>	65.8%	52.2%	61.9%	81.5%	78.8%	85.0%	66.2%
Age (Mean+95%CI)	65.7 (63.7-67.7)	66.2 (64.6-67.7)	35.7 (33.4-38.0)	35.2 (32.6-37.9)	64.1 (61.6-66.5)	31.8 (28.9-34.7)	53.9 (52.2-55.6)
Admission FIM (Mean+95%CI)	92.5 (89.1-95.8)	61.4 (59.7-63.1)	94.2 (90.0-98.3)	57.6 (54.9-60.3)	43.3 (39.3-47.3)	44.4 (40.5-48.2)	69.8 (67.3-72.2)
LOS (Mean+95%CI)	40.4 (33.3-47.5)	89.0 (75.6-102.4)	50.6 (37.7-63.4)	95.7 (71.3-120.1)	106.4 (79.3-133.6)	26.3 (100.5-152.2)	78.2 (70.9-85.5)
Discharge destination (%)							
<i>Discharged to community</i>	64.3%	49.2%	78.6%	64.2%	49.2%	74.4%	60.0%
<i>Remaining in hospital system</i>	35.7%	50.8%	21.4%	35.8%	50.8%	25.6%	40.0%
FIM change (Mean+95%CI)	18.9 (16.1-21.6)	34.7 (30.9-38.5)	19.5 (15.7-23.3)	38.9 (31.7-46.2)	30.8 (21.0-40.6)	39.2 (28.5-49.9)	29.3 (27.0-31.6)
FIM efficiency (FIM change/LOS)	0.5	0.4	0.4	0.4	0.3	0.3	0.4

Spinal cord dysfunction episodes in 2017 - Non specialist facilities

AN-SNAP class:	4AD1	4AD2	4AD3	4AD4	4AZ1	4AZ2	All Spinal cord dysfunction
Number of episodes	223	177	70	31	39	10	550
Proportion of episodes	40.5%	32.2%	12.7%	5.6%	7.1%	1.8%	100.0%
Sector (%)							
<i>Private</i>	26.0%	16.9%	11.4%	22.6%	5.1%	20.0%	19.5%
<i>Public</i>	74.0%	83.1%	88.6%	77.4%	94.9%	80.0%	80.5%
Gender (%)							
<i>Female</i>	37.2%	40.1%	40.0%	54.8%	38.5%	40.0%	39.6%
<i>Male</i>	62.8%	59.9%	60.0%	45.2%	61.5%	60.0%	60.4%
Age (Mean+95%CI)	69.1 (67.7-70.4)	68.7 (67.1-70.3)	37.7 (35.5-39.9)	36.1 (32.6-39.6)	71.6 (68.0-75.3)	35.0 (27.8-42.2)	62.7 (61.3-64.0)
Admission FIM (Mean+95%CI)	93.7 (91.8-95.6)	62.0 (60.4-63.6)	94.5 (90.8-98.1)	61.2 (58.5-63.8)	42.0 (38.8-45.2)	43.7 (33.5-53.9)	78.7 (76.6-80.8)
LOS (Mean+95%CI)	21.1 (18.6-23.6)	44.3 (39.1-49.6)	26.2 (17.5-35.0)	50.0 (25.7-74.3)	55.7 (41.5-69.9)	31.5 (15.1-47.9)	32.5 (29.6-35.4)
Discharge destination (%)							
<i>Discharged to community</i>	82.4%	54.6%	80.8%	42.9%	49.2%	35.3%	65.8%
<i>Remaining in hospital system</i>	17.6%	45.4%	19.2%	57.1%	50.8%	64.7%	34.2%
FIM change (Mean+95%CI)	18.2 (16.7-19.8)	24.9 (21.8-28.0)	17.3 (14.1-20.6)	30.3 (21.2-39.4)	16.9 (9.3-24.5)	16.3 (-7.1-39.8)	20.5 (19.0-21.9)
FIM efficiency (FIM change/LOS)	0.9	0.6	0.7	0.6	0.3	0.5	0.6

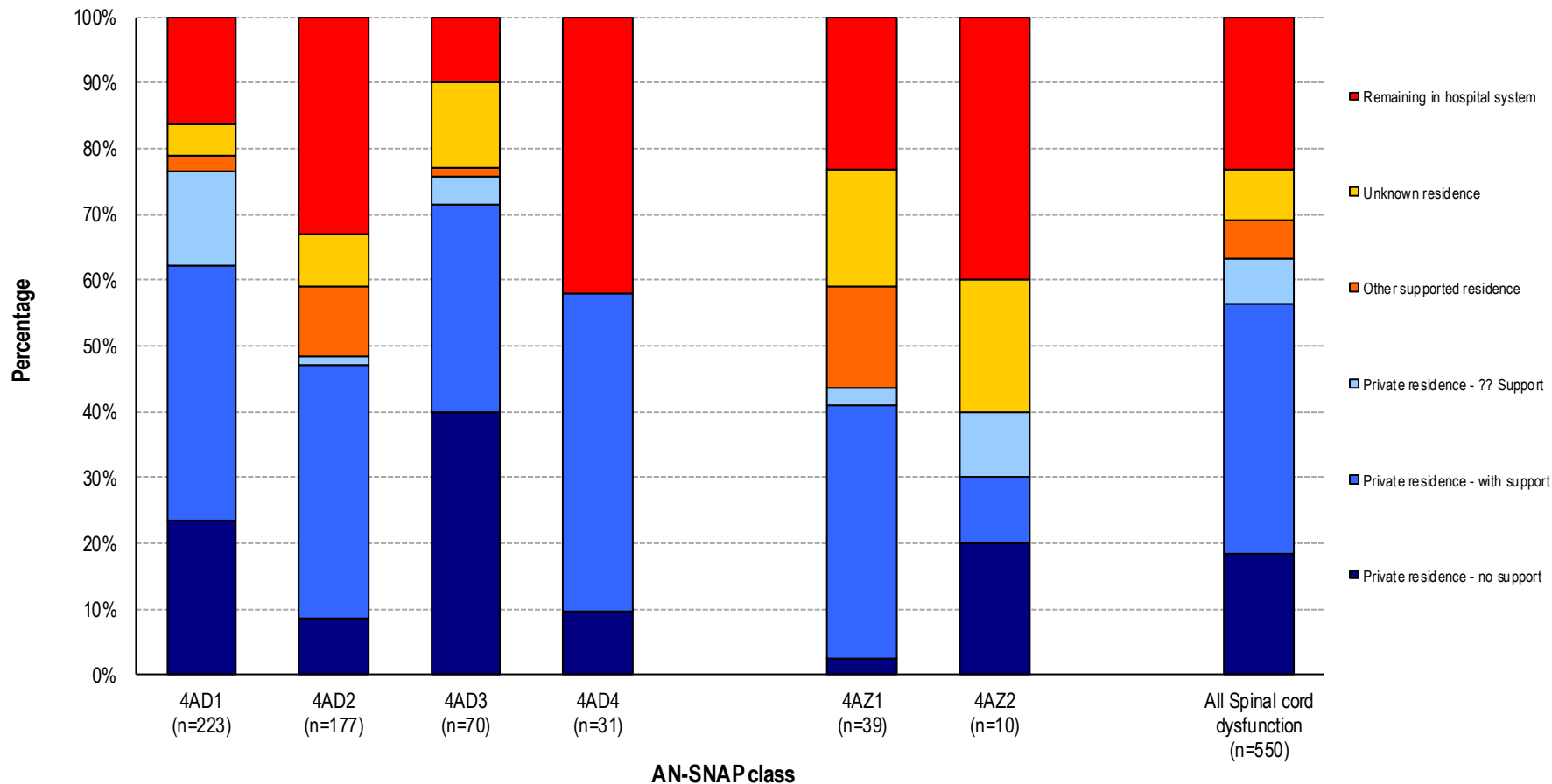
Spinal cord dysfunction discharge destination by AN-SNAP class – Specialist facilities

Specialist - Discharge destination - Spinal cord dysfunction



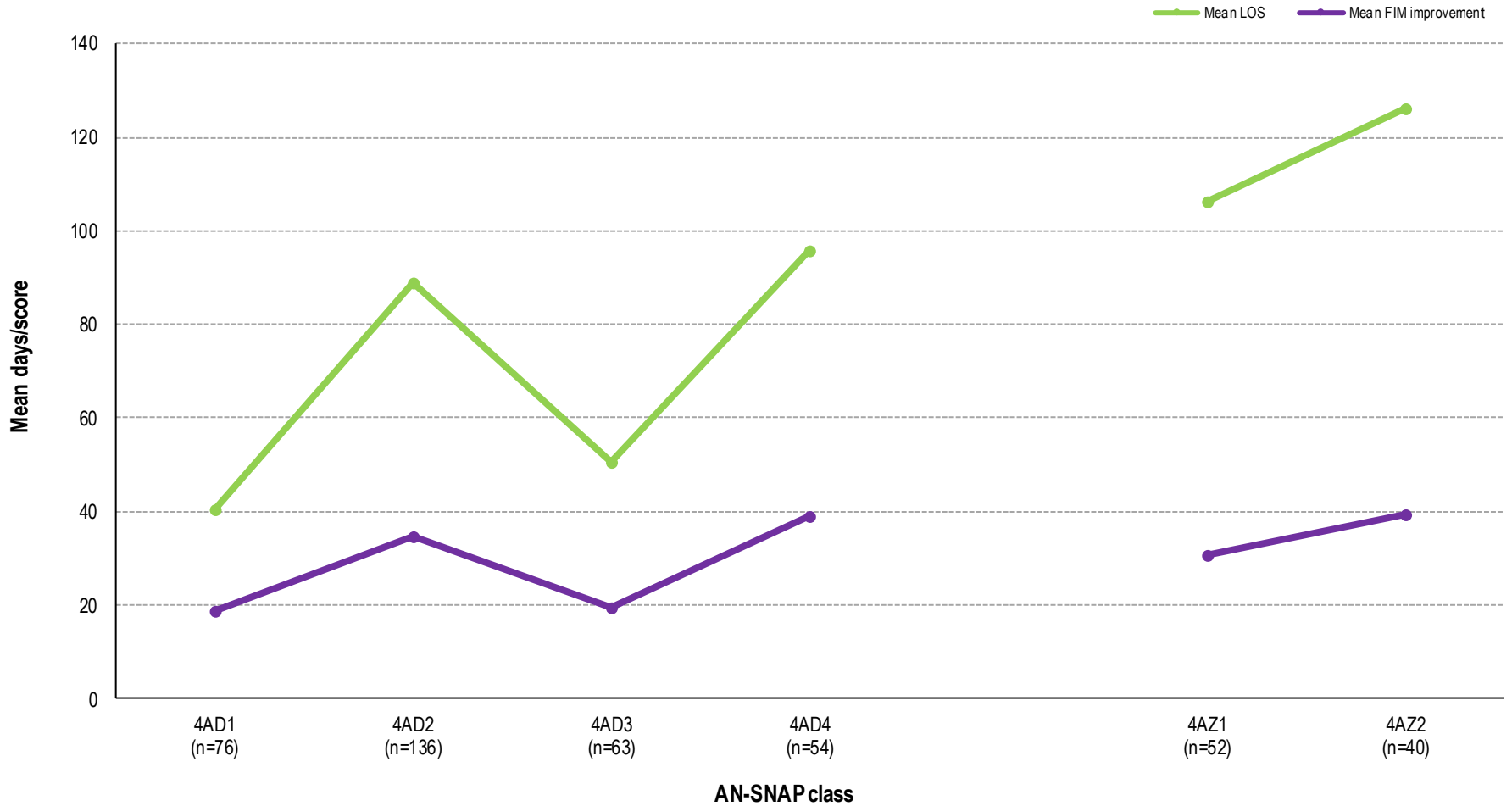
Spinal cord dysfunction discharge destination by AN-SNAP class – Non specialist facilities

Non specialist - Discharge destination - Spinal cord dysfunction



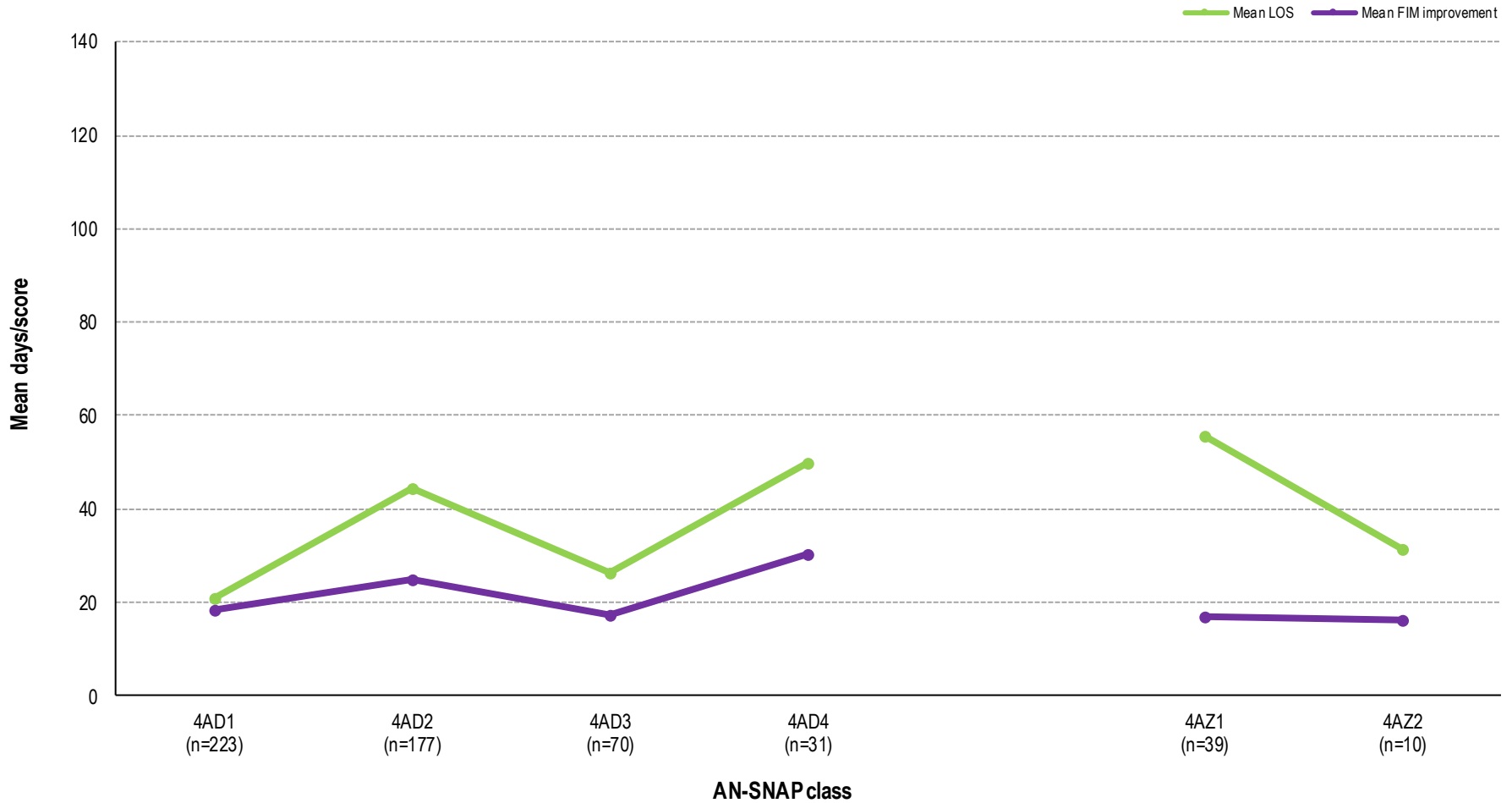
Spinal cord dysfunction LOS and FIM change by AN-SNAP class – Specialist facilities

Specialist - LOS and FIM change by AN-SNAP class



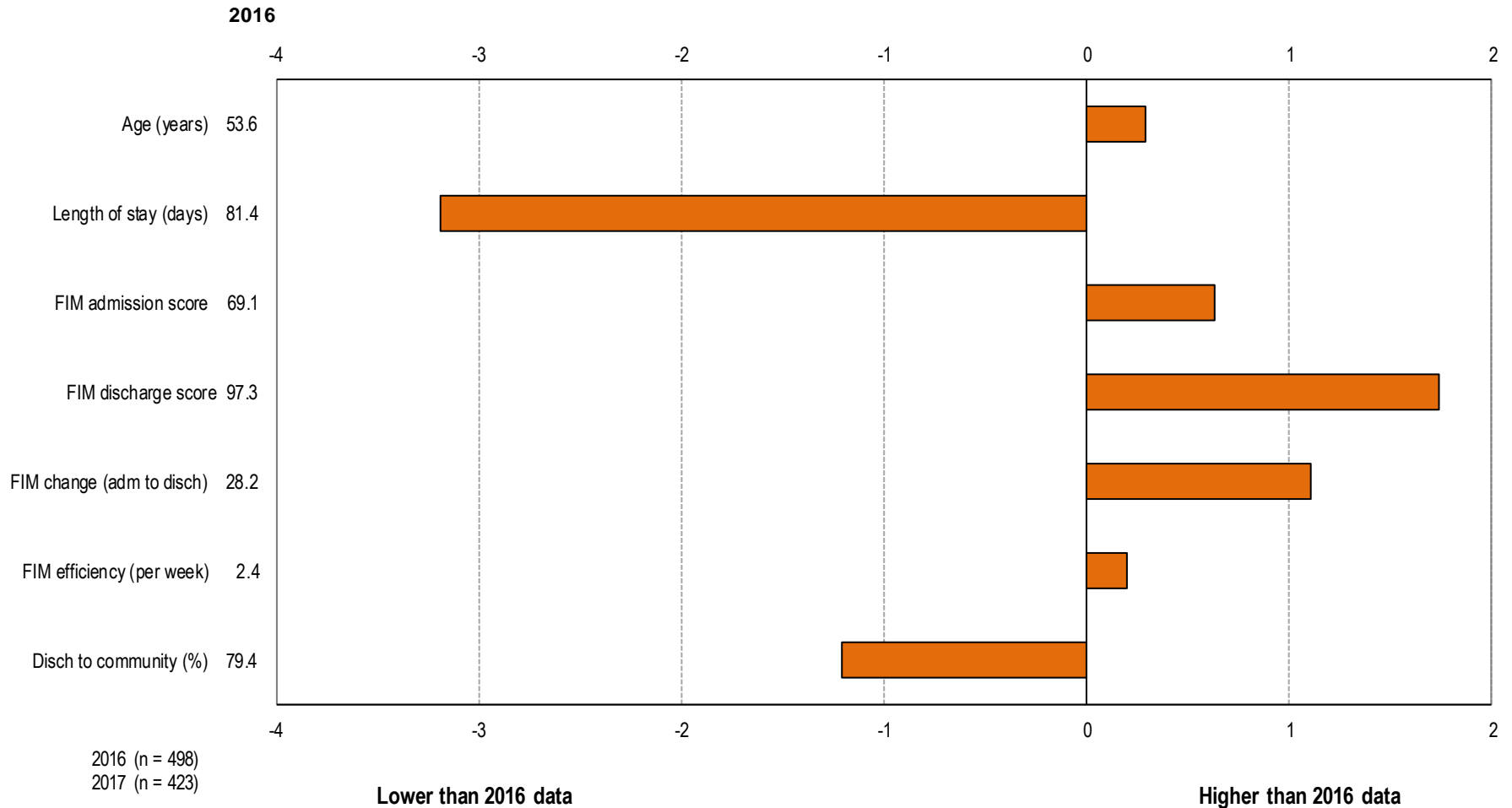
Spinal cord dysfunction LOS and FIM change by AN-SNAP class – Non specialist facilities

Non specialist - LOS and FIM change by AN-SNAP class



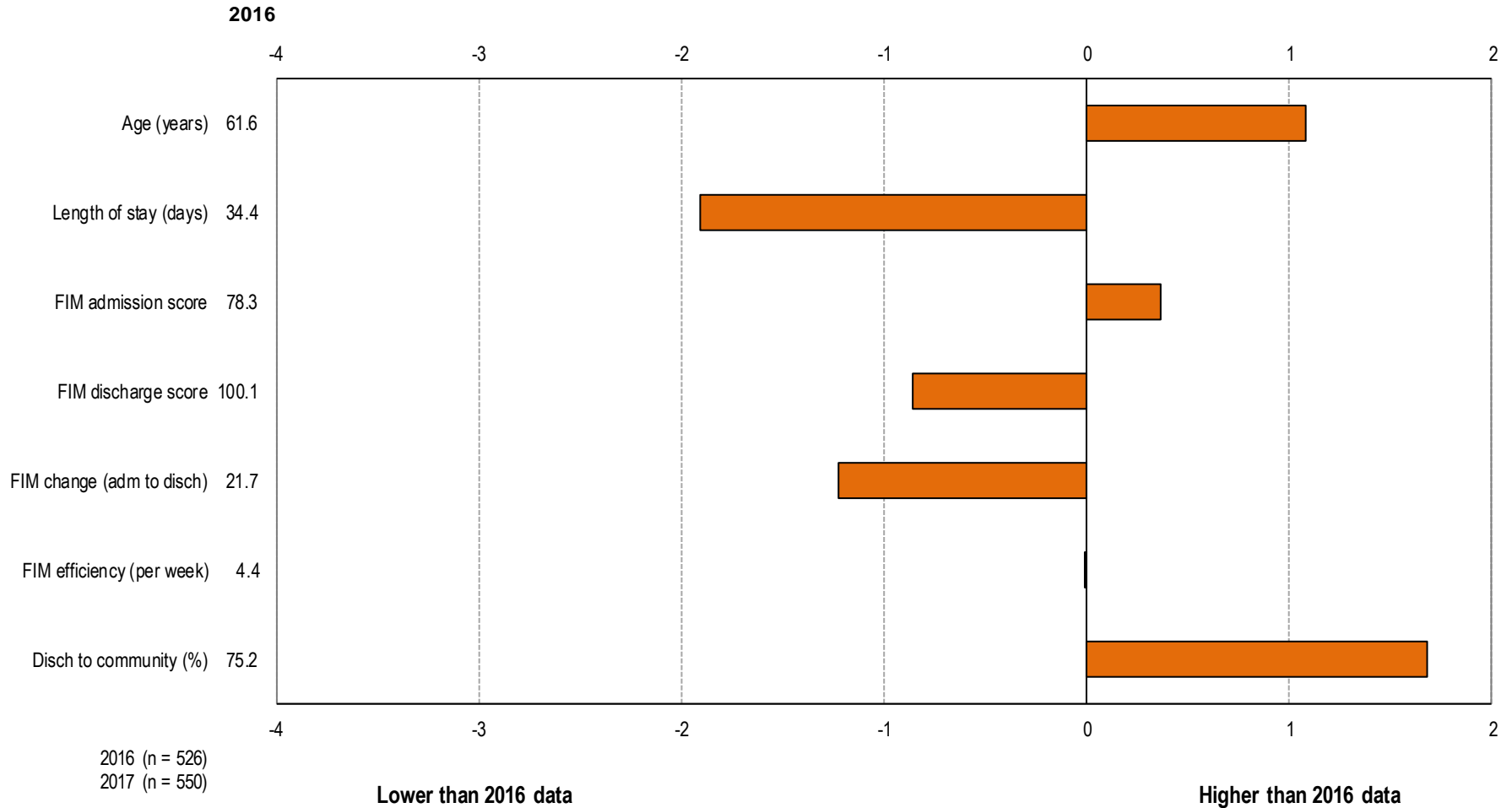
Change in outcome measures in spinal cord dysfunction, 2016 to 2017 - Specialist facilities

Specialist - Difference from 2016 data - All Spinal cord dysfunction



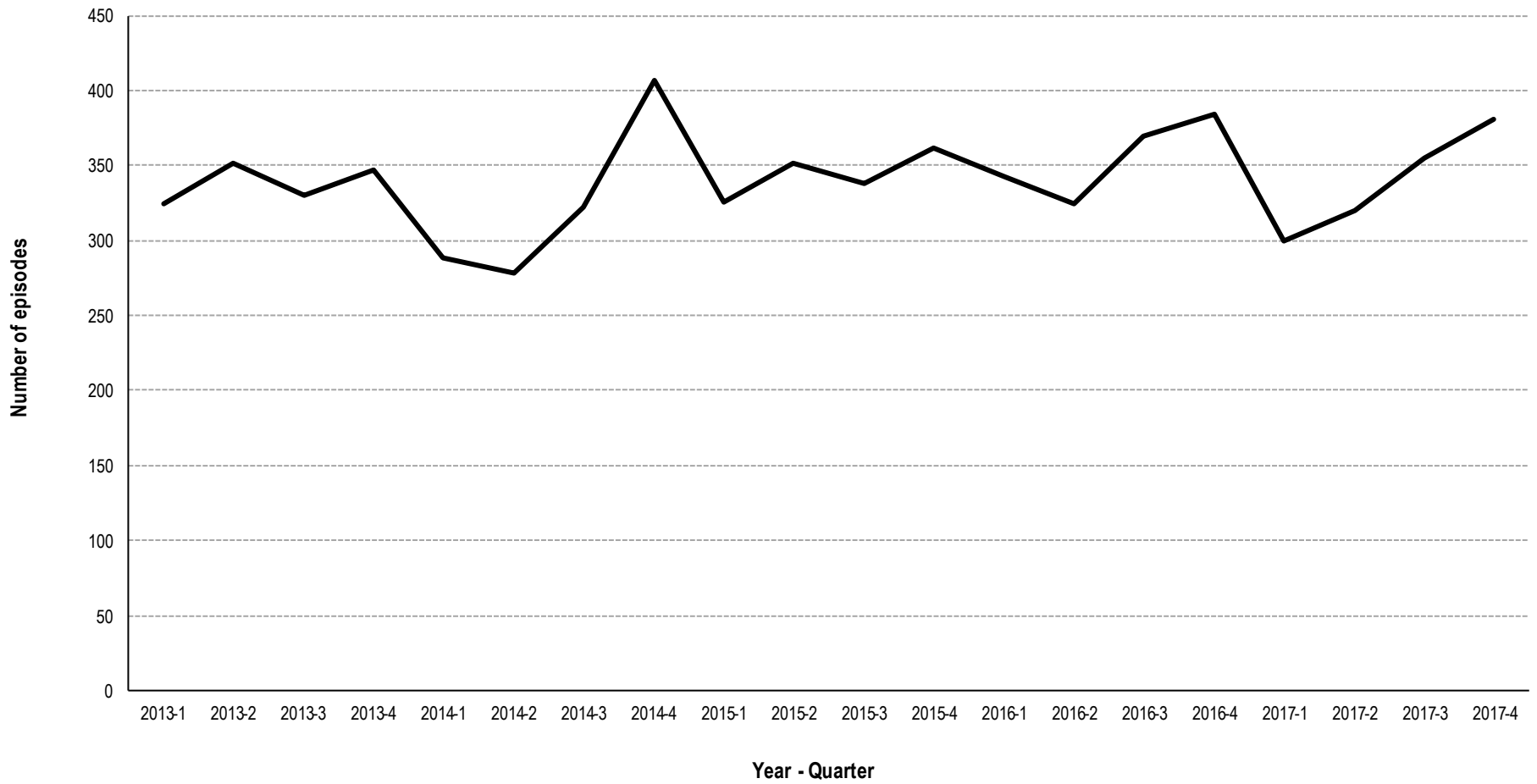
Change in outcome measures in spinal cord dysfunction, 2016 to 2017 - Non specialist facilities

Non specialist - Difference from 2016 data - All Spinal cord dysfunction

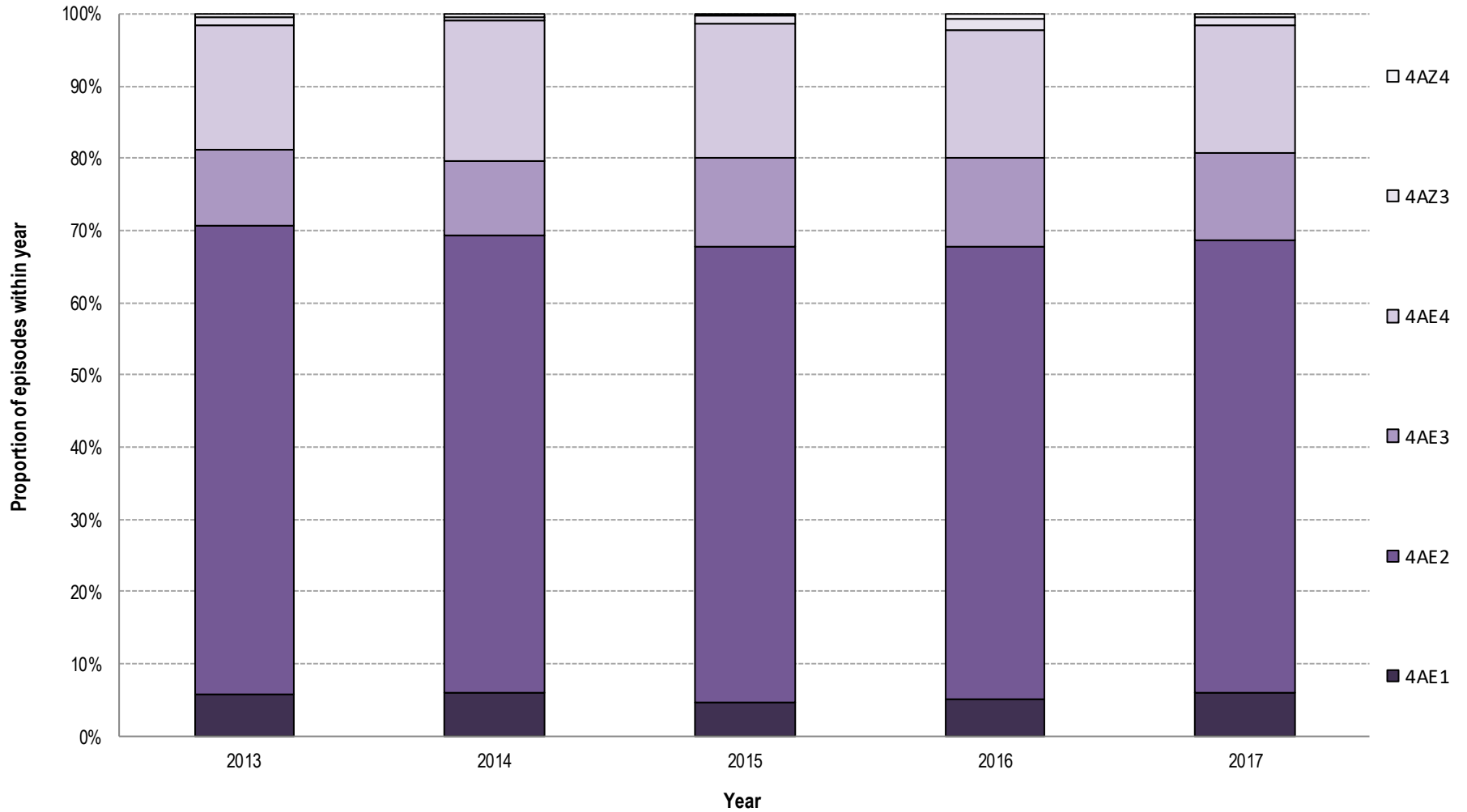


Amputation episodes over time

Number of episodes by quarter - Amputation of limb



Amputation casemix over time



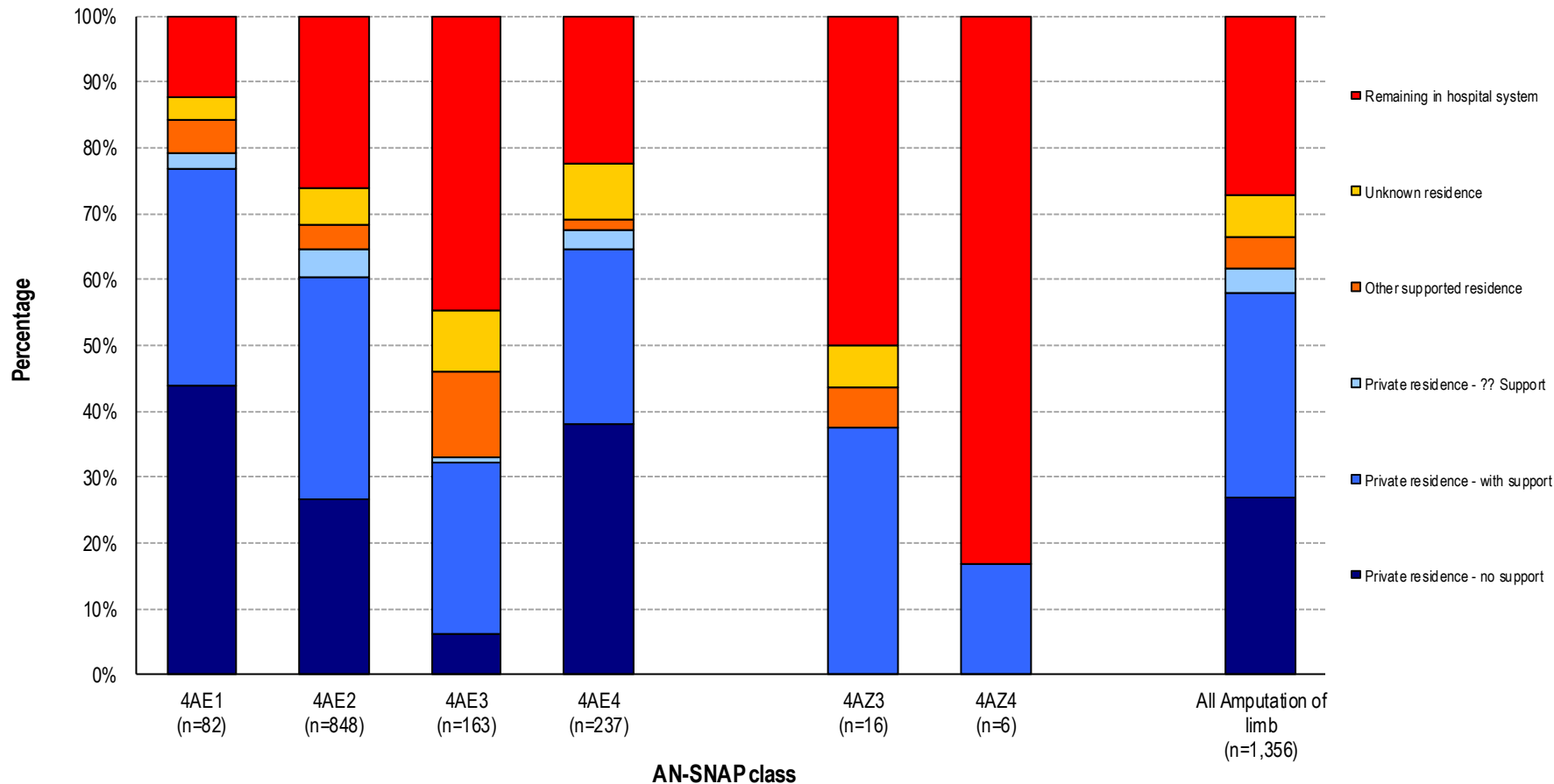
Amputation episodes in 2017



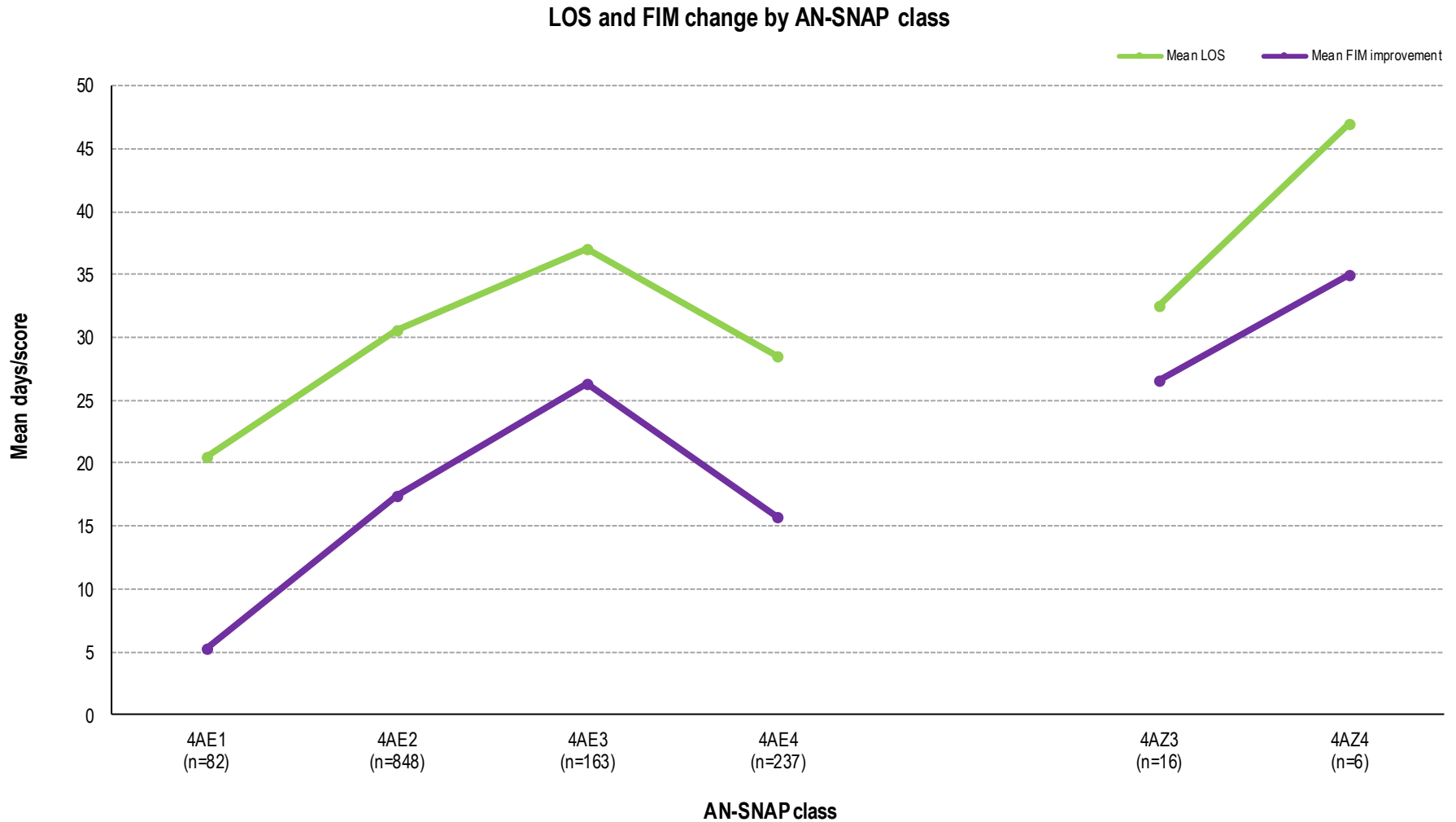
AN-SNAP class:	4AE1	4AE2	4AE3	4AE4	4AZ3	4AZ4	All Amputation of limb
Number of episodes	82	848	163	237	16	6	1,356
Proportion of episodes	6.0%	62.5%	12.0%	17.5%	1.2%	0.4%	100.0%
Sector (%)							
<i>Private</i>	11.0%	19.6%	17.2%	9.7%	31.3%	0.0%	17.0%
<i>Public</i>	89.0%	80.4%	82.8%	90.3%	68.8%	100.0%	83.0%
Gender (%)							
<i>Female</i>	17.1%	22.2%	25.8%	32.9%	31.3%	33.3%	24.3%
<i>Male</i>	82.9%	77.8%	74.2%	67.1%	68.8%	66.7%	75.7%
Age (Mean+95%CI)	65.8 (64.0-67.5)	70.7 (70.0-71.4)	74.5 (73.0-75.9)	43.1 (42.0-44.2)	75.8 (71.2-80.3)	53.2 (47.0-59.3)	66.0 (65.2-66.7)
Admission FIM (Mean+95%CI)	112.2 (111.0-113.3)	88.8 (87.7-89.8)	54.0 (52.4-55.7)	98.1 (95.6-100.6)	40.8 (36.6-44.9)	27.0 (NULL-NULL)	88.2 (87.0-89.4)
LOS (Mean+95%CI)	20.5 (15.3-25.8)	30.6 (28.6-32.5)	37.1 (32.2-42.0)	28.5 (25.4-31.6)	32.5 (8.1-56.9)	47.0 (NULL-NULL)	30.2 (28.7-31.7)
Discharge destination (%)							
<i>Discharged to community</i>	87.8%	74.0%	55.3%	77.6%	50.0%	16.7%	72.8%
<i>Remaining in hospital system</i>	12.2%	26.0%	44.7%	22.4%	50.0%	83.3%	27.2%
FIM change (Mean+95%CI)	5.3 (4.2-6.5)	17.5 (16.6-18.4)	26.4 (23.3-29.4)	15.7 (13.7-17.7)	26.6 (14.9-38.3)	35.0 (NULL-NULL)	17.3 (16.5-18.1)
FIM efficiency (FIM change/LOS)	0.3	0.6	0.7	0.5	0.8	0.7	0.6

Amputation discharge destination by AN-SNAP class

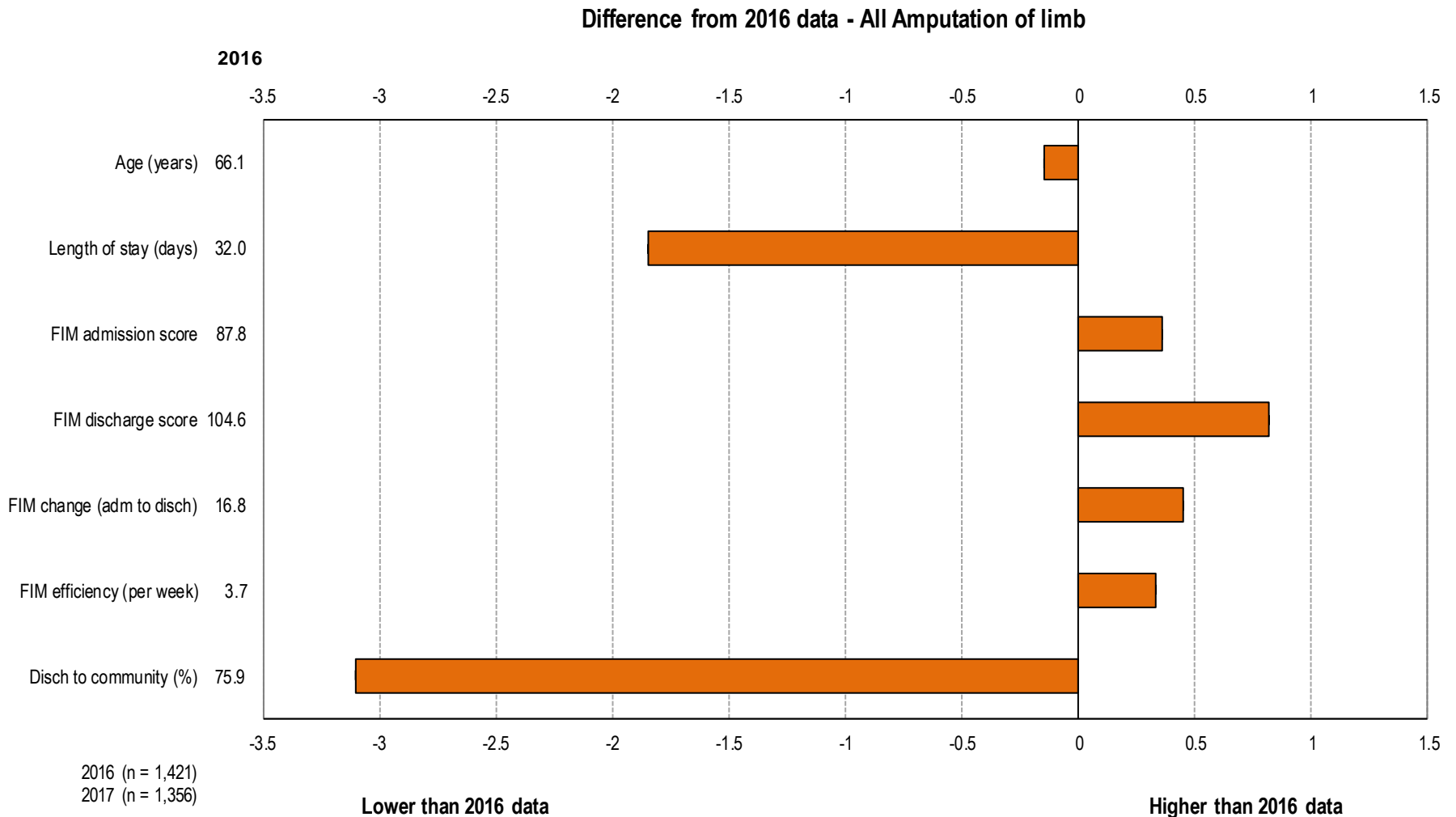
Discharge destination - Amputation of limb



Amputation LOS and FIM change by AN-SNAP class

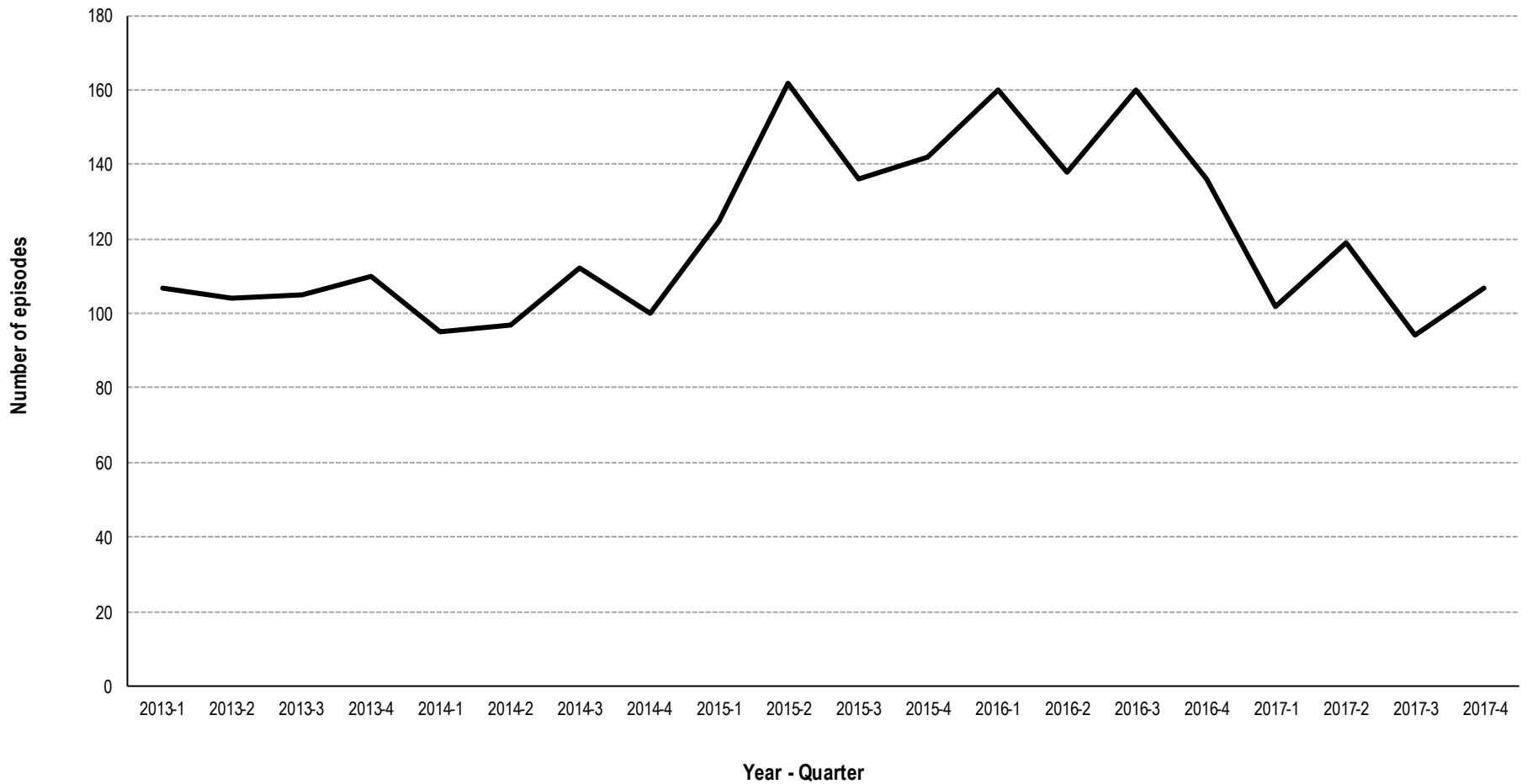


Change in outcome measures in amputation, 2016 to 2017

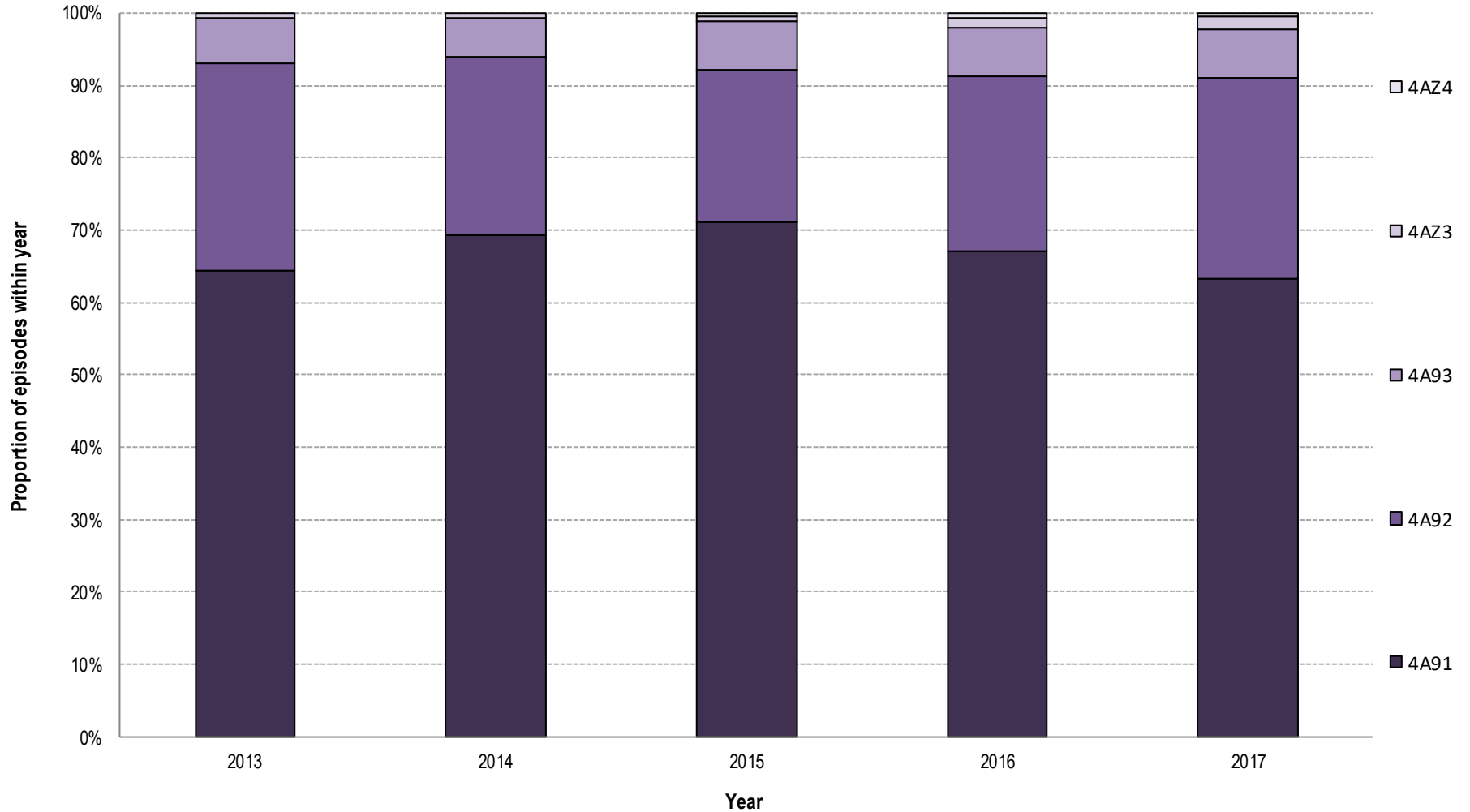


Arthritis episodes over time

Number of episodes by quarter - Arthritis



Arthritis casemix over time



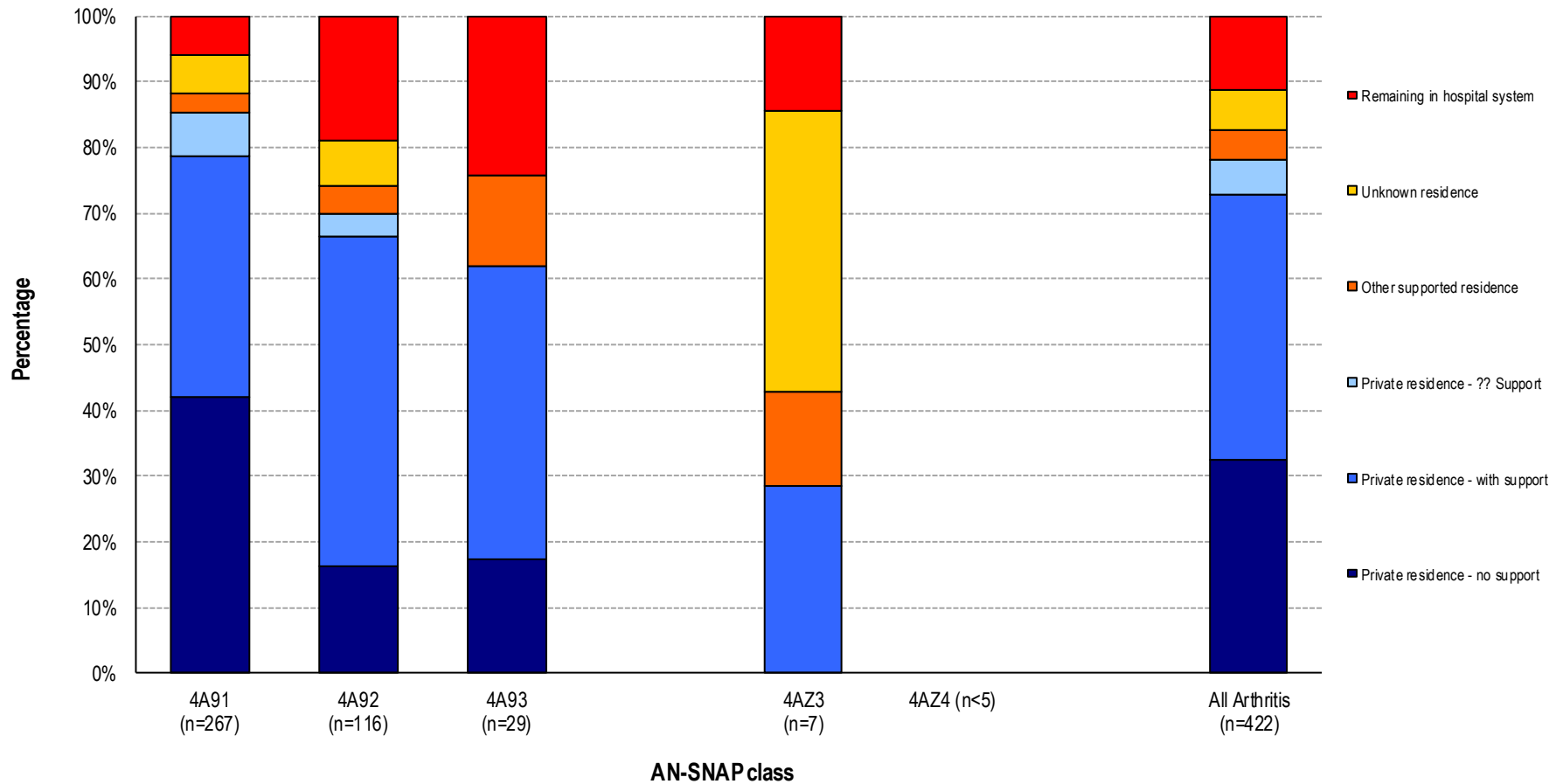
Arthritis episodes in 2017



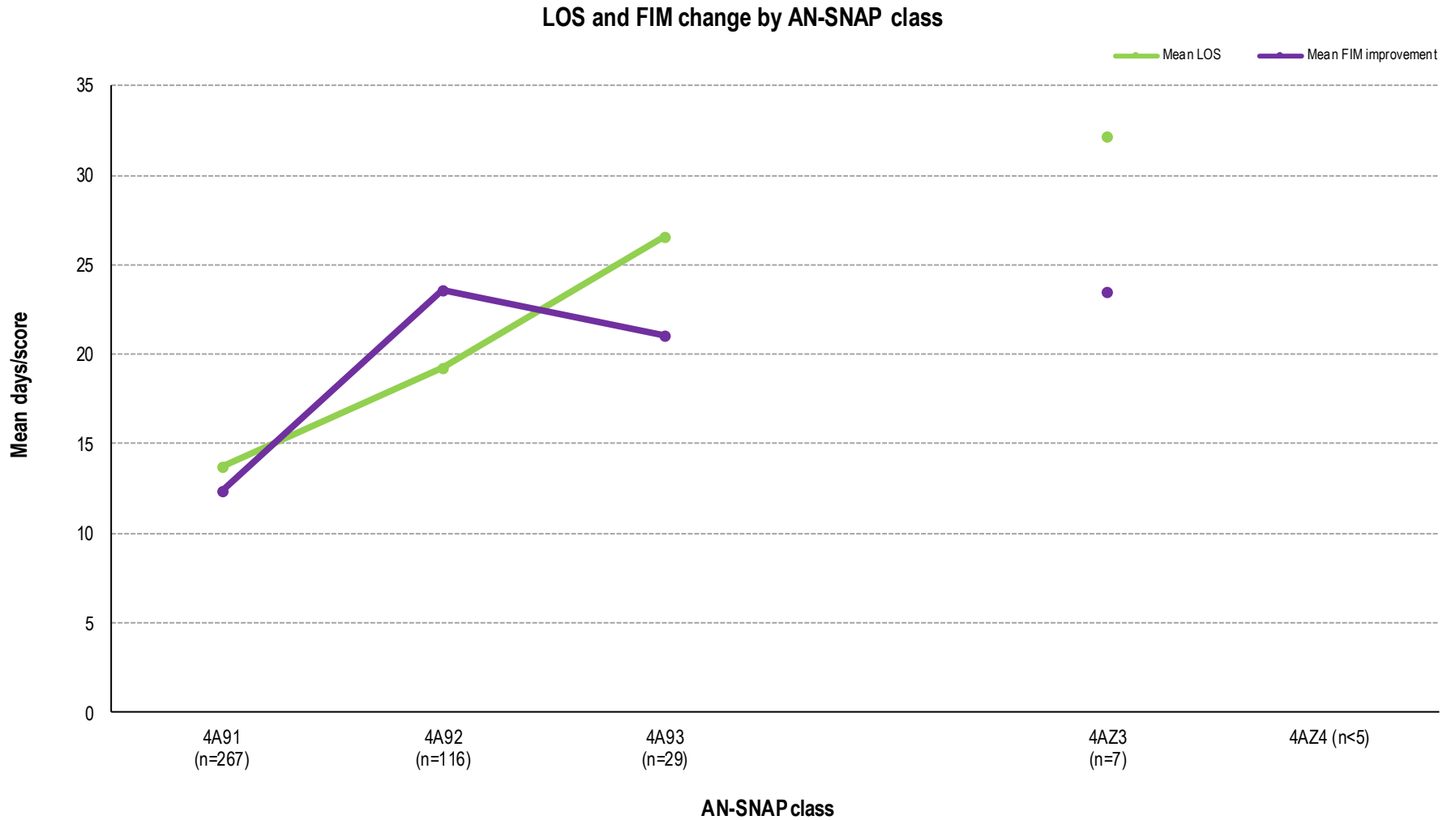
AN-SNAP class:	4A91	4A92	4A93	4AZ3	4AZ4	All Arthritis
Number of episodes	267	116	29	7	2	422
Proportion of episodes	63.3%	27.5%	6.9%	1.7%	n < 5	100.0%
Sector (%)						
<i>Private</i>	65.2%	36.2%	34.5%	42.9%	n < 5	54.5%
<i>Public</i>	34.8%	63.8%	65.5%	57.1%	n < 5	45.5%
Gender (%)						
<i>Female</i>	69.7%	58.6%	72.4%	85.7%	n < 5	67.1%
<i>Male</i>	30.3%	41.4%	27.6%	14.3%	n < 5	32.9%
Age (Mean+95%CI)	76.2 (74.6-77.7)	77.8 (75.6-79.9)	75.7 (71.3-80.1)	86.3 (78.5-94.1)	n < 5	76.6 (75.4-77.8)
Admission FIM (Mean+95%CI)	100.7 (99.2-102.3)	73.8 (71.9-75.8)	55.6 (52.7-58.5)	40.2 (33.3-47.1)	n < 5	89.7 (87.7-91.7)
LOS (Mean+95%CI)	13.7 (12.5-15.0)	19.2 (17.0-21.4)	26.6 (20.8-32.4)	32.2 (26.8-37.5)	n < 5	16.3 (15.1-17.4)
Discharge destination (%)						
<i>Discharged to community</i>	94.0%	81.0%	75.9%	85.7%	n < 5	88.9%
<i>Remaining in hospital system</i>	6.0%	19.0%	24.1%	14.3%	n < 5	11.1%
FIM change (Mean+95%CI)	12.3 (11.3-13.3)	23.6 (21.4-25.8)	21.1 (13.7-28.4)	23.5 (11.5-35.5)	n < 5	16.0 (14.9-17.2)
FIM efficiency (FIM change/LOS)	0.9	1.2	0.8	0.7	n < 5	1.0

Arthritis discharge destination by AN-SNAP class

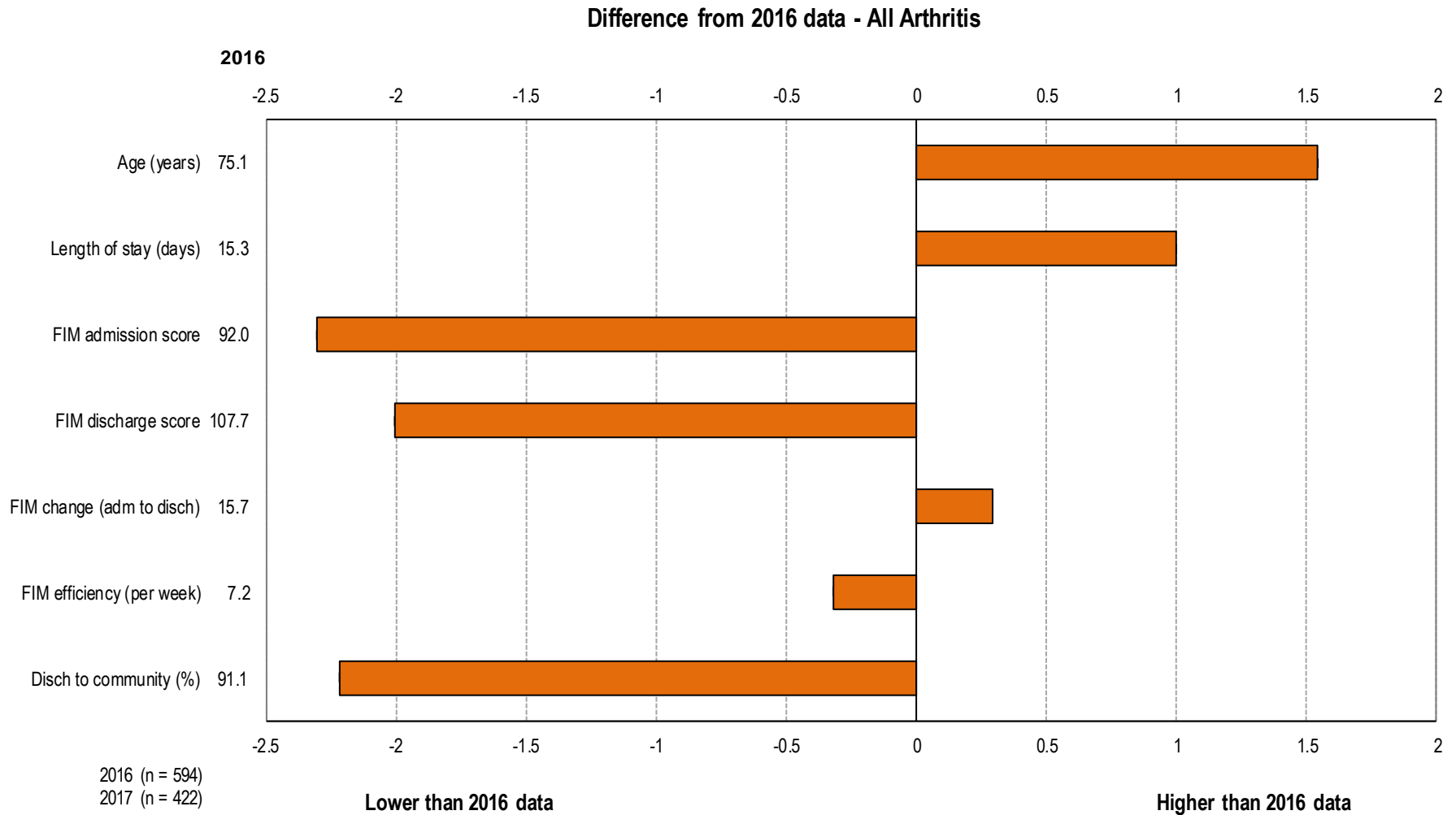
Discharge destination - Arthritis



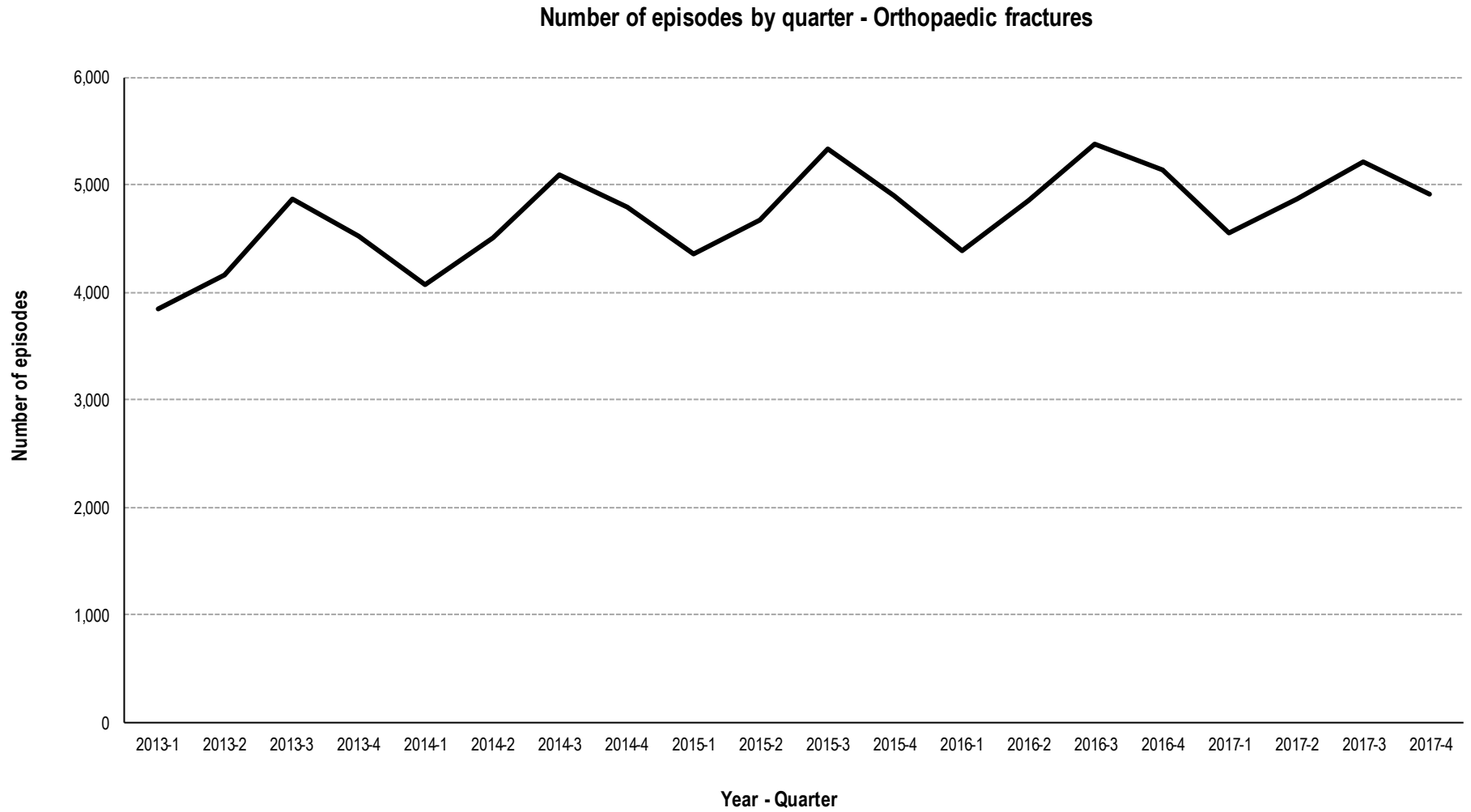
Arthritis LOS and FIM change by AN-SNAP class



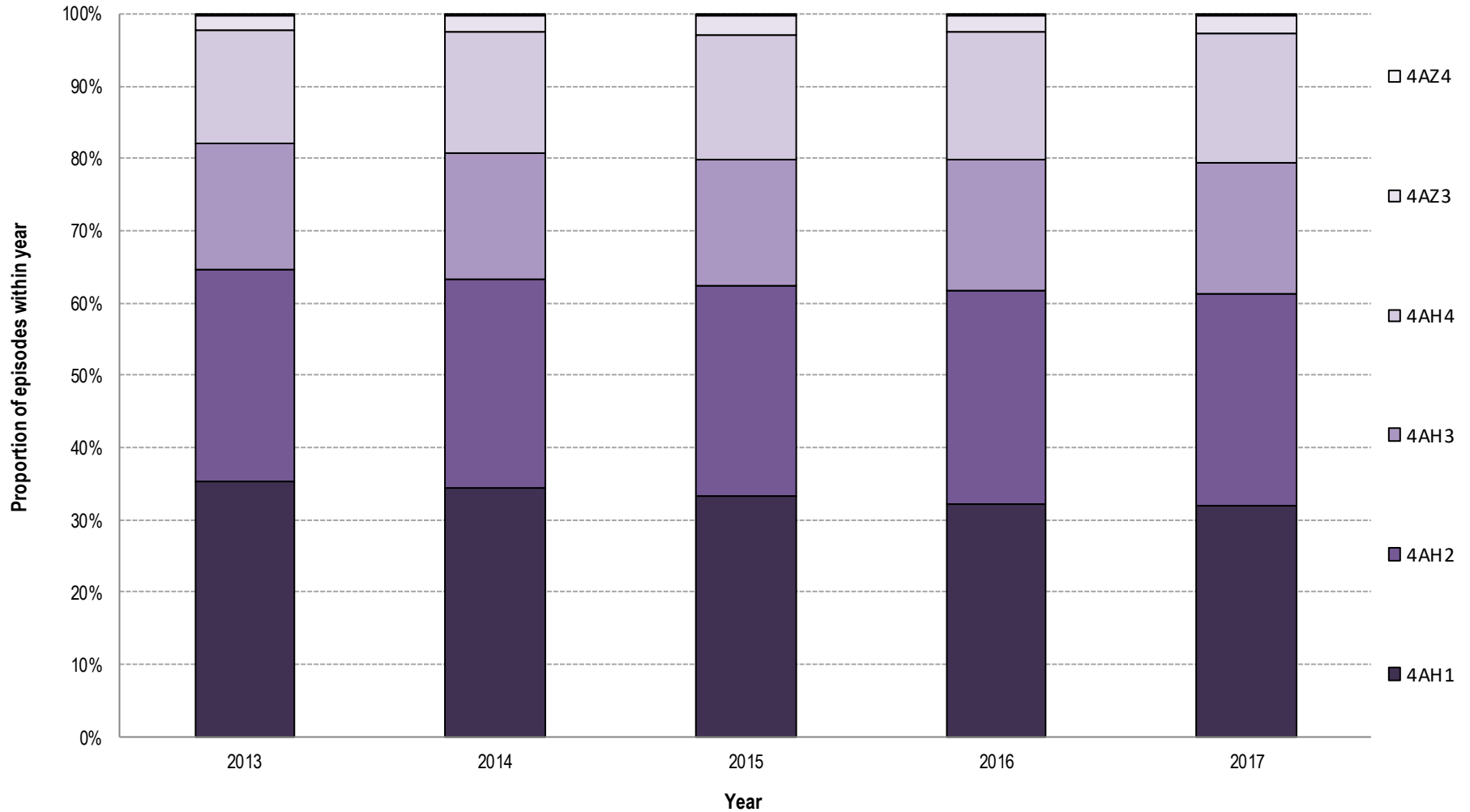
Change in outcome measures in arthritis, 2016 to 2017



Orthopaedic fracture episodes over time



Orthopaedic fracture casemix over time



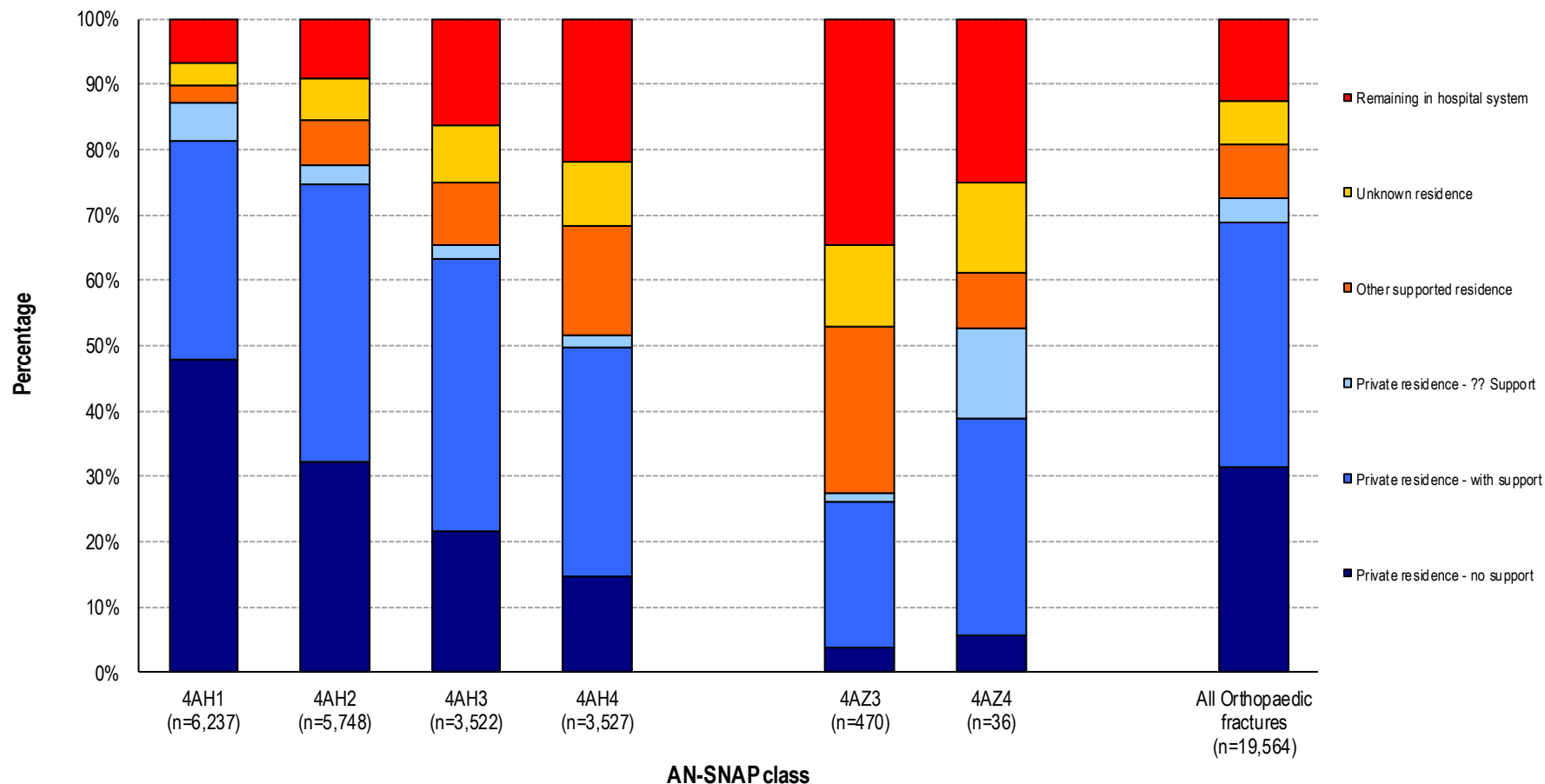
Orthopaedic fracture episodes in 2017



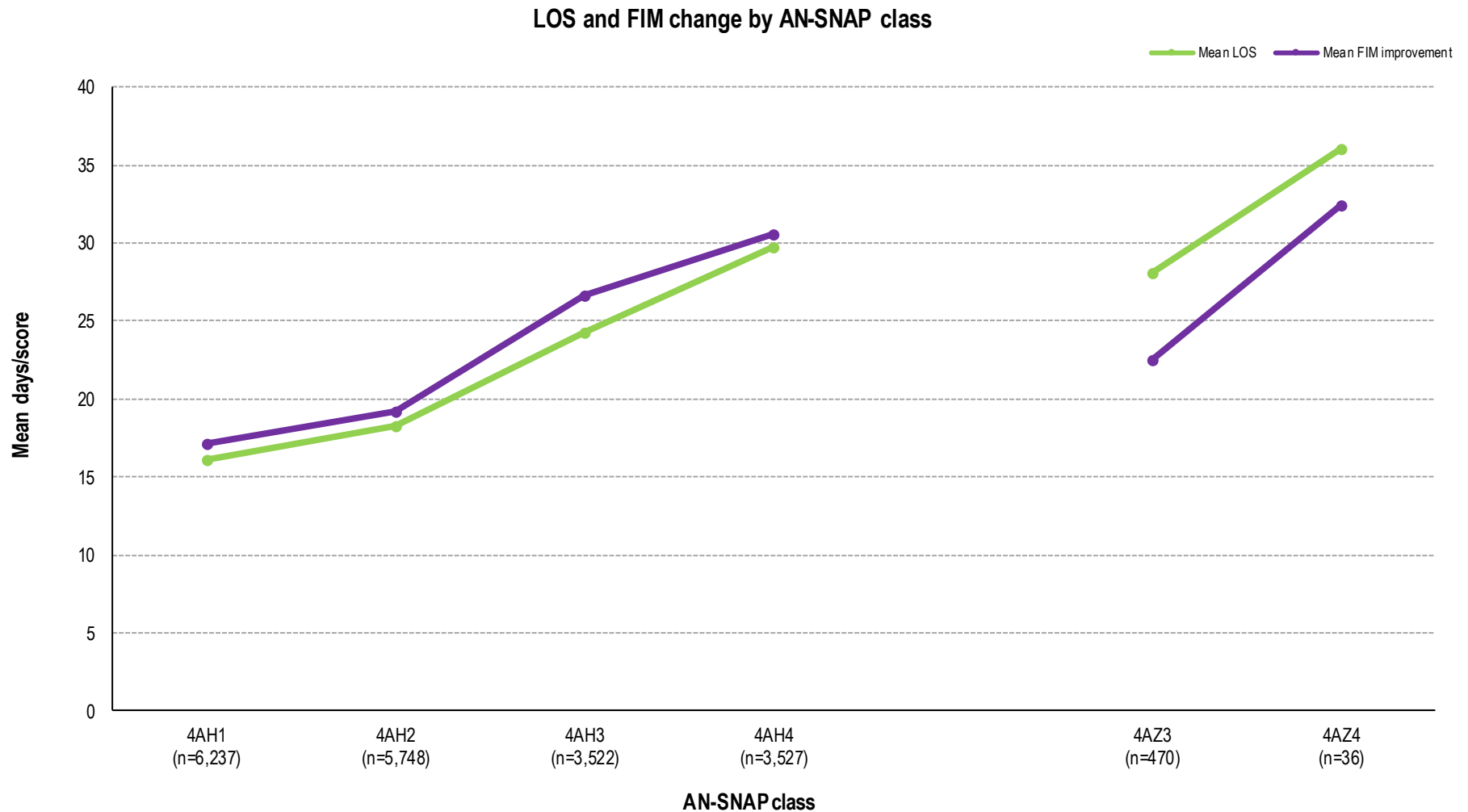
AN-SNAP class:	4AH1	4AH2	4AH3	4AH4	4AZ3	4AZ4	All Orthopaedic fractures
Number of episodes	6,237	5,748	3,522	3,527	470	36	19,564
Proportion of episodes	31.9%	29.4%	18.0%	18.0%	2.4%	0.2%	100.0%
Sector (%)							
<i>Private</i>	58.3%	50.7%	43.8%	32.8%	26.0%	19.4%	48.0%
<i>Public</i>	41.7%	49.3%	56.2%	67.2%	74.0%	80.6%	52.0%
Gender (%)							
<i>Female</i>	72.1%	69.1%	71.3%	67.8%	67.7%	58.3%	70.2%
<i>Male</i>	27.8%	30.9%	28.7%	32.2%	32.3%	41.7%	29.8%
Age (Mean+95%CI)	74.5 (74.1-74.8)	79.9 (79.6-80.2)	80.0 (79.6-80.4)	80.2 (79.8-80.6)	84.5 (83.8-85.3)	53.2 (49.2-57.2)	78.3 (78.1-78.5)
Admission FIM (Mean+95%CI)	96.5 (96.3-96.8)	85.3 (85.0-85.5)	70.6 (70.3-70.9)	54.5 (54.1-54.9)	31.9 (30.8-33.0)	36.4 (31.9-41.0)	80.5 (80.2-80.8)
LOS (Mean+95%CI)	16.1 (15.8-16.3)	18.3 (17.9-18.6)	24.2 (23.7-24.7)	29.7 (29.1-30.4)	28.0 (26.1-30.0)	36.0 (23.4-48.6)	20.6 (20.4-20.8)
Discharge destination (%)							
<i>Discharged to community</i>	93.4%	91.1%	83.6%	78.2%	65.4%	75.0%	87.5%
<i>Remaining in hospital system</i>	6.6%	8.9%	16.4%	21.8%	34.6%	25.0%	12.5%
FIM change (Mean+95%CI)	17.2 (17.0-17.4)	19.2 (19.0-19.5)	26.6 (26.2-27.1)	30.6 (30.0-31.2)	22.5 (20.1-24.8)	32.4 (24.3-40.5)	21.7 (21.6-21.9)
FIM efficiency (FIM change/LOS)	1.1	1.1	1.1	1.0	0.8	0.9	1.1

Orthopaedic fracture discharge destination by AN-SNAP class

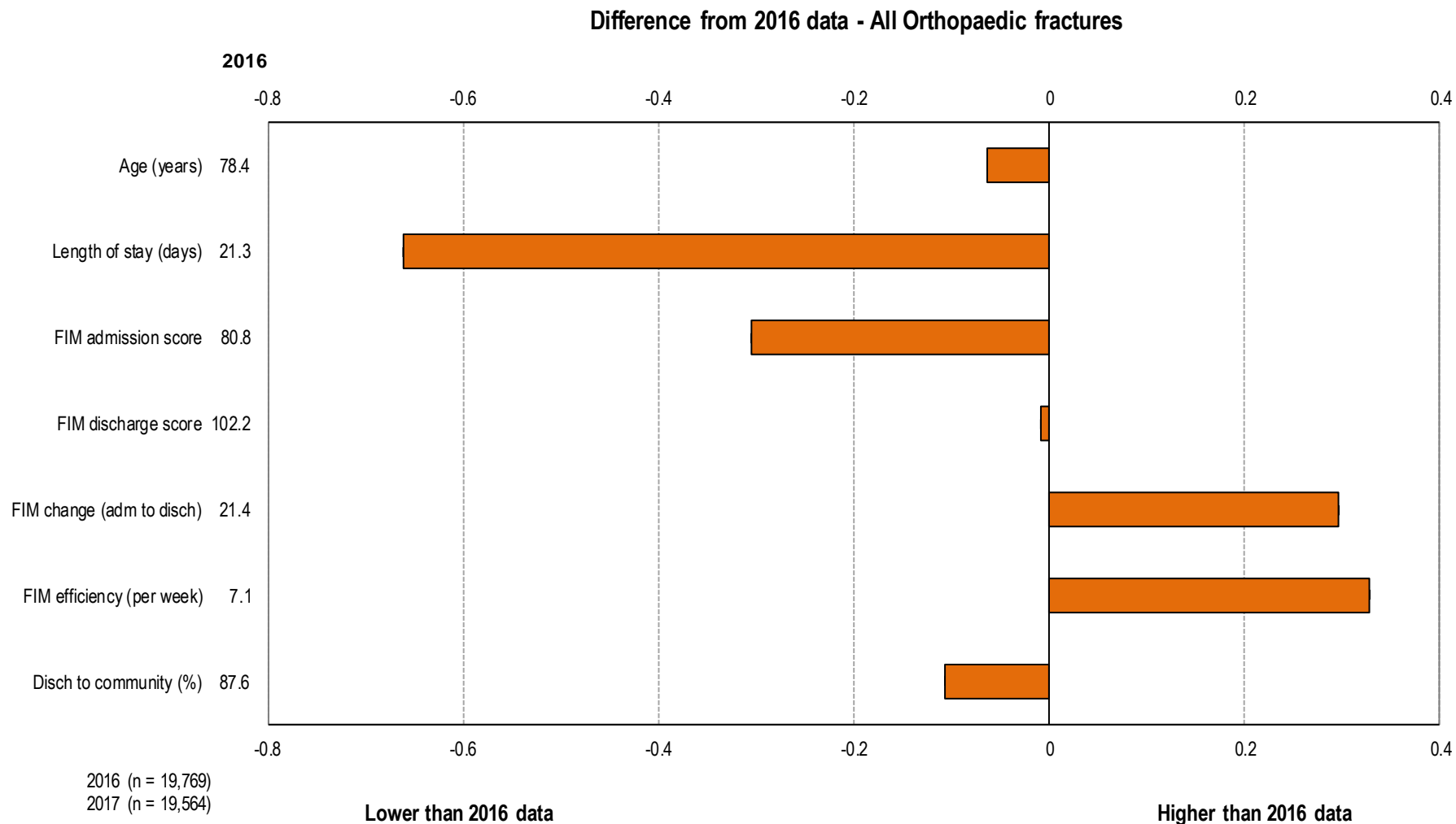
Discharge destination - Orthopaedic fractures



Orthopaedic fracture LOS and FIM change by AN-SNAP class



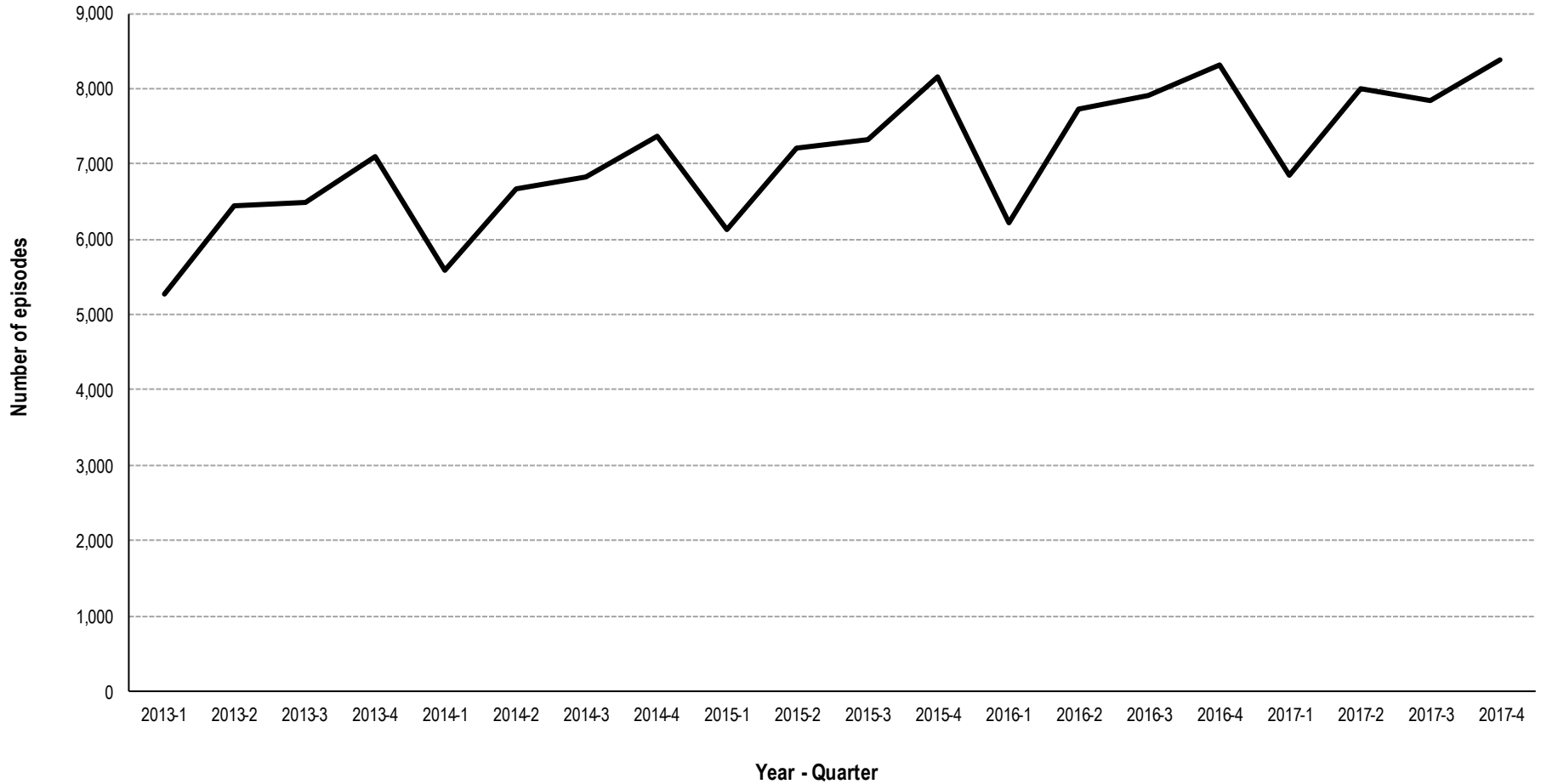
Change in outcome measures in orthopaedic fracture, 2016 to 2017



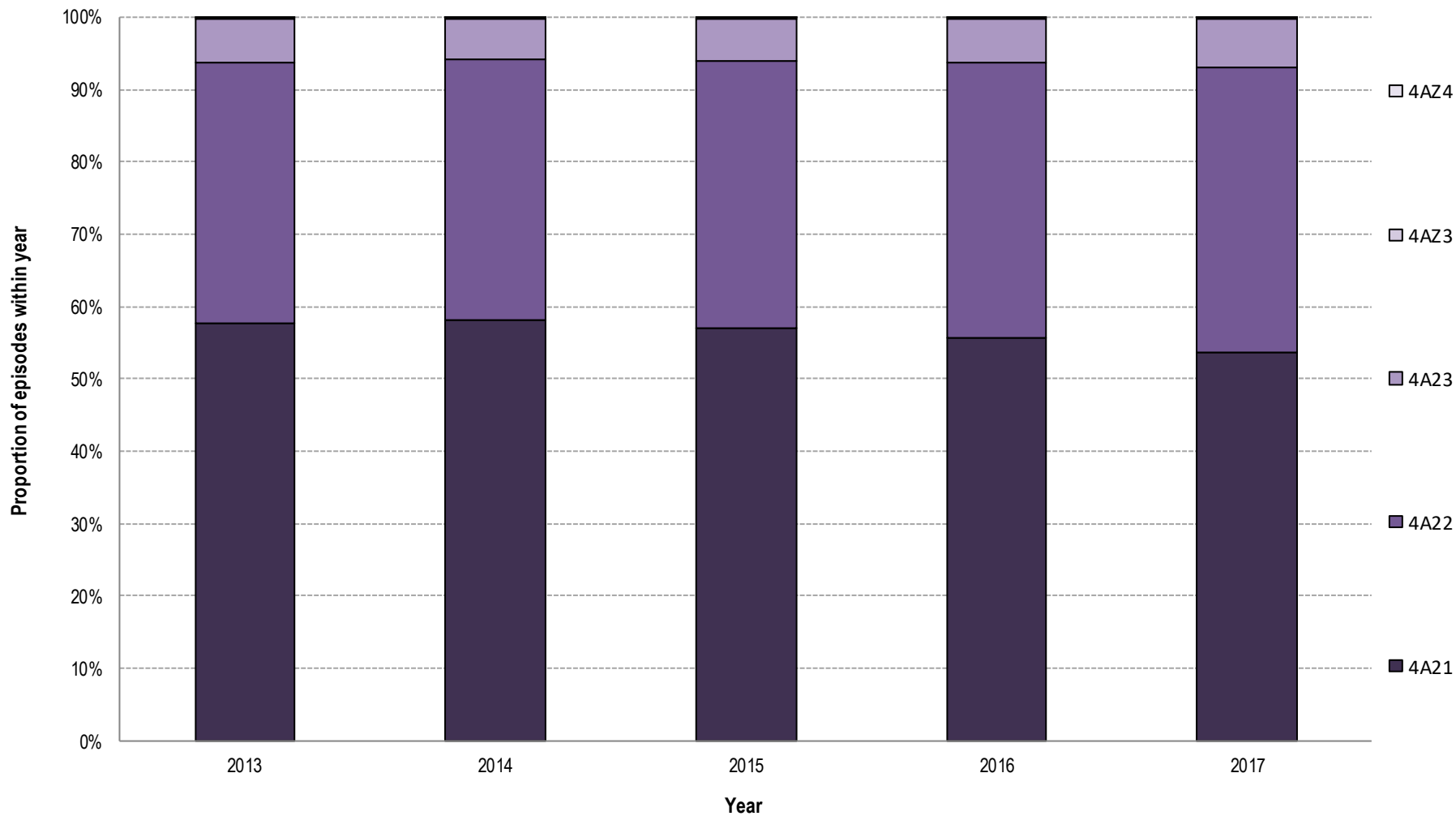
Orthopaedic replacement episodes over time



Number of episodes by quarter - Orthopaedic replacements



Orthopaedic replacement casemix over time



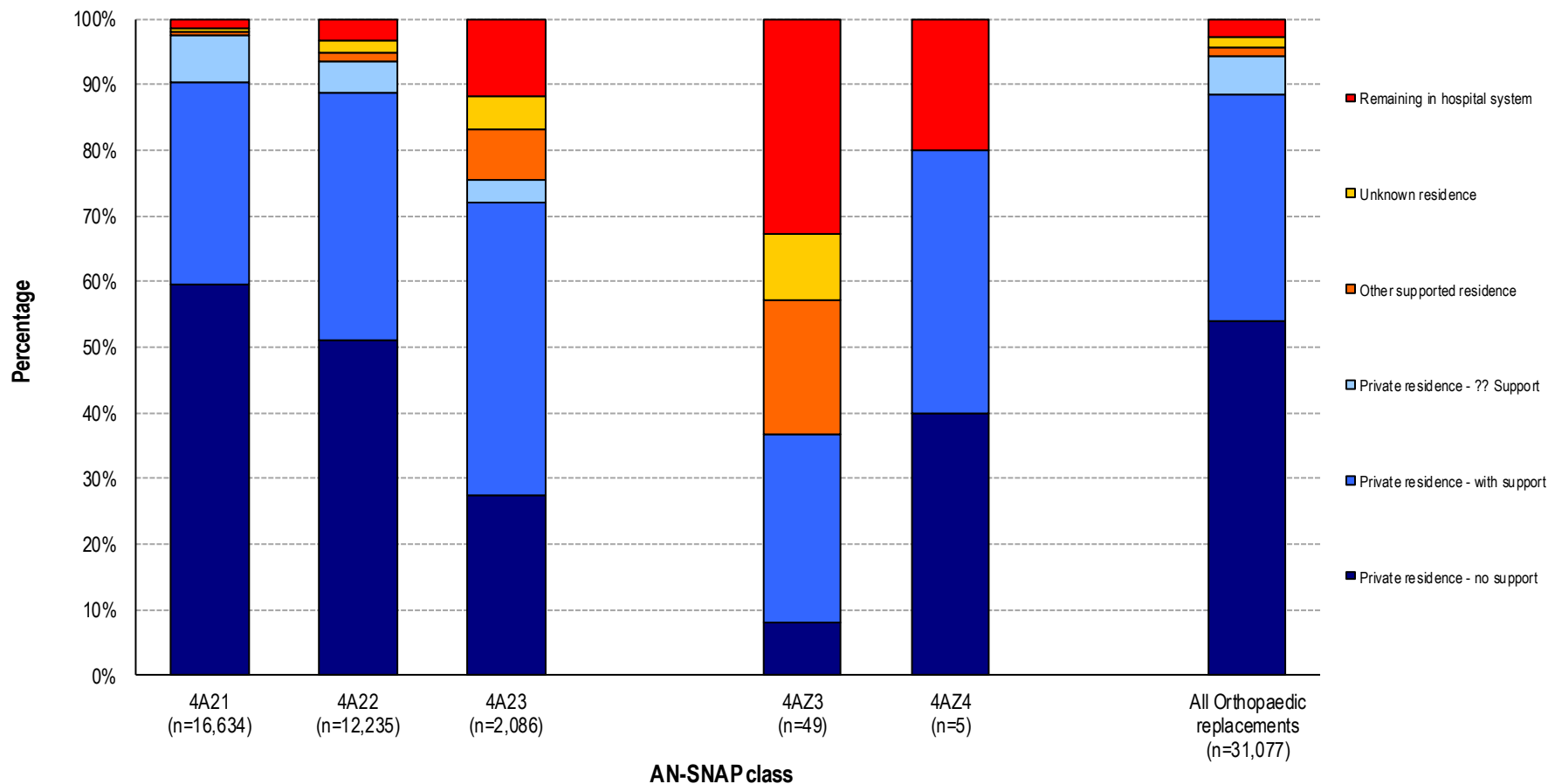
Orthopaedic replacement episodes in 2017



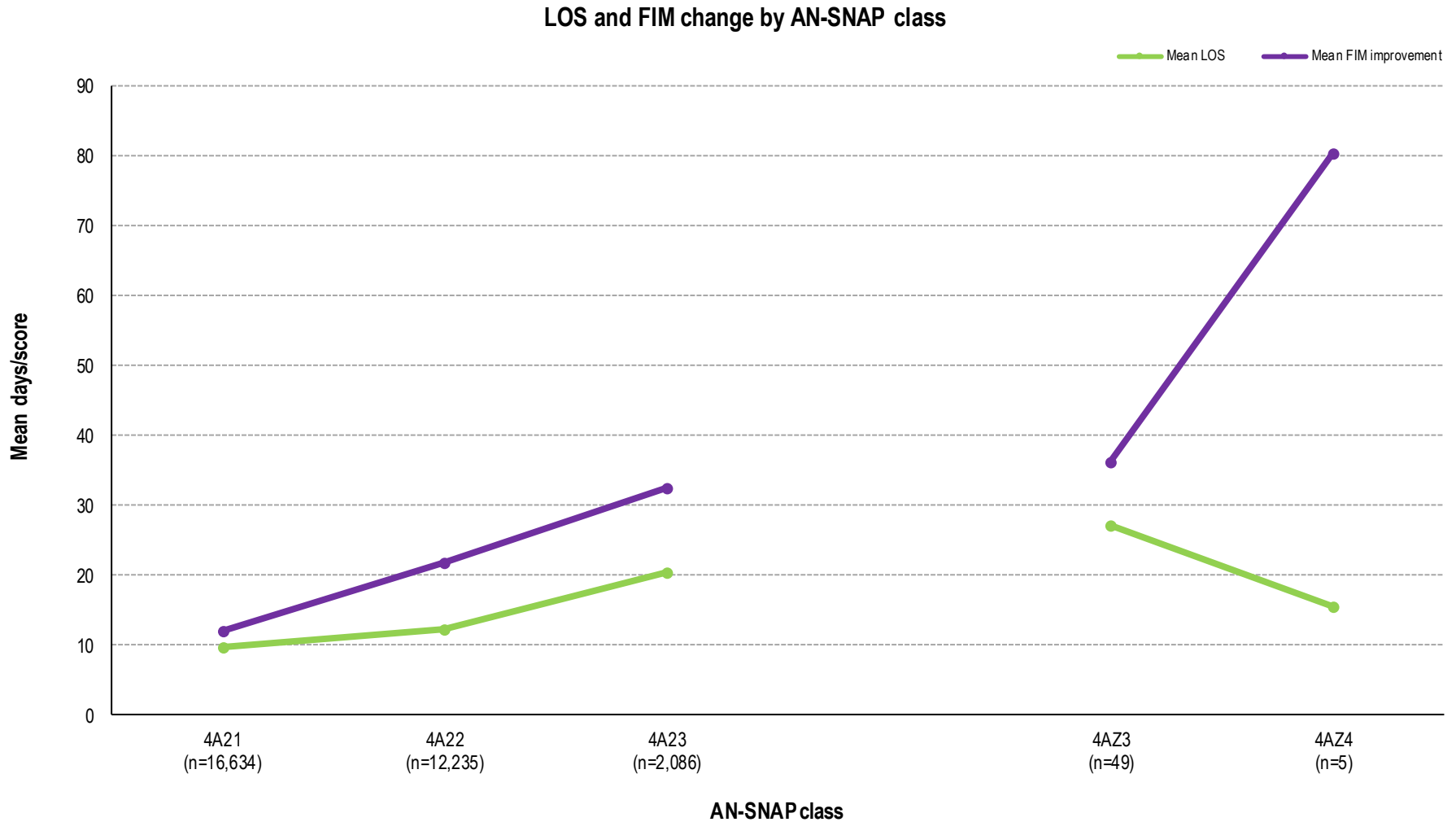
AN-SNAP class:	4A21	4A22	4A23	4AZ3	4AZ4	All Orthopaedic replacements
Number of episodes	16,634	12,235	2,086	49	5	31,077
Proportion of episodes	53.5%	39.4%	6.7%	0.2%	0.0%	100.0%
Sector (%)						
<i>Private</i>	92.1%	82.8%	54.2%	42.9%	60.0%	85.8%
<i>Public</i>	7.9%	17.2%	45.8%	57.1%	40.0%	14.2%
Gender (%)						
<i>Female</i>	60.1%	67.5%	68.6%	67.3%	80.0%	63.6%
<i>Male</i>	39.9%	32.5%	31.3%	32.7%	20.0%	36.4%
Age (Mean+95%CI)	69.0 (68.9-69.2)	73.8 (73.6-74.0)	77.6 (77.2-78.0)	81.4 (78.9-84.0)	58.6 (54.4-62.8)	71.5 (71.4-71.6)
Admission FIM (Mean+95%CI)	106.5 (106.5-106.6)	91.7 (91.5-91.8)	68.1 (67.6-68.6)	30.2 (26.8-33.6)	28.0 (8.4-47.6)	98.3 (98.1-98.4)
LOS (Mean+95%CI)	9.8 (9.7-9.8)	12.3 (12.2-12.5)	20.4 (19.7-21.1)	27.1 (20.6-33.5)	15.5 (6.7-24.3)	11.4 (11.4-11.5)
Discharge destination (%)						
<i>Discharged to community</i>	98.7%	96.7%	88.4%	67.3%	80.0%	97.2%
<i>Remaining in hospital system</i>	1.3%	3.3%	11.6%	32.7%	20.0%	2.8%
FIM change (Mean+95%CI)	11.9 (11.9-12.0)	21.9 (21.8-22.0)	32.4 (31.8-33.0)	36.3 (25.9-46.6)	80.5 (65.8-95.2)	17.1 (17.0-17.2)
FIM efficiency (FIM change/LOS)	1.2	1.8	1.6	1.3	5.2	1.5

Orthopaedic replacement discharge destination by AN-SNAP class

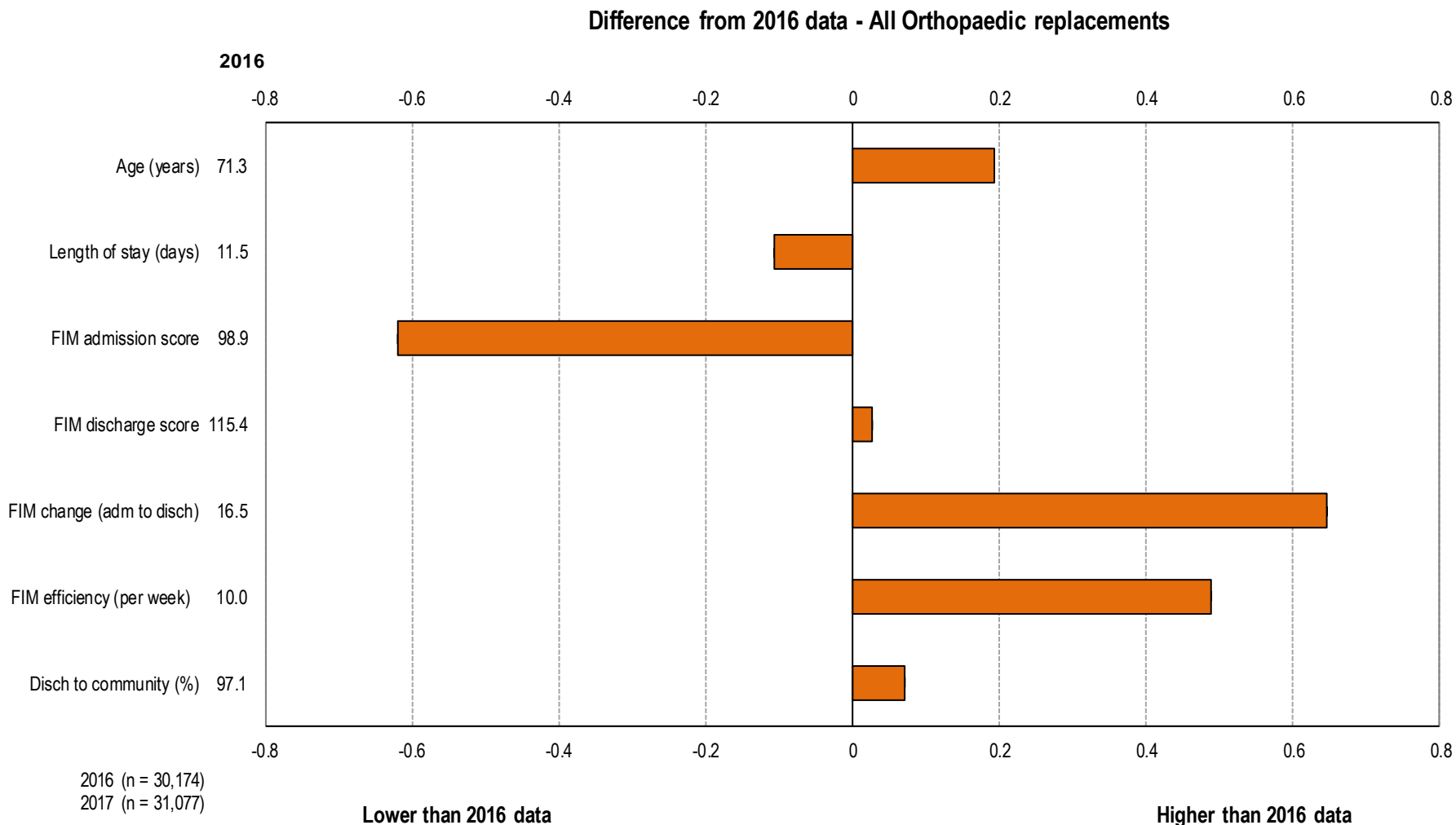
Discharge destination - Orthopaedic replacements



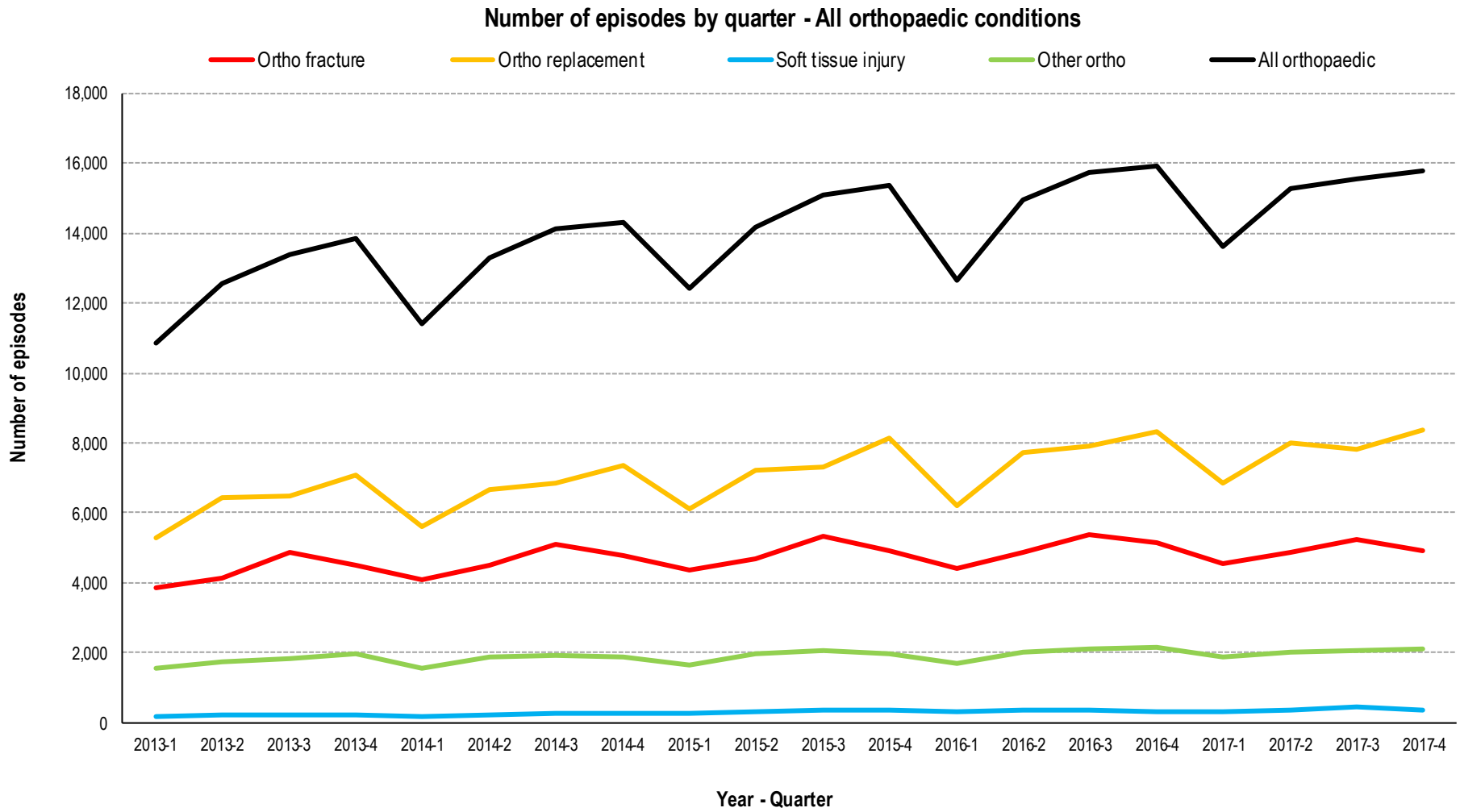
Orthopaedic replacement LOS and FIM change by AN-SNAP class



Change in outcome measures in orthopaedic replacement, 2016 to 2017



All orthopaedic episodes over time

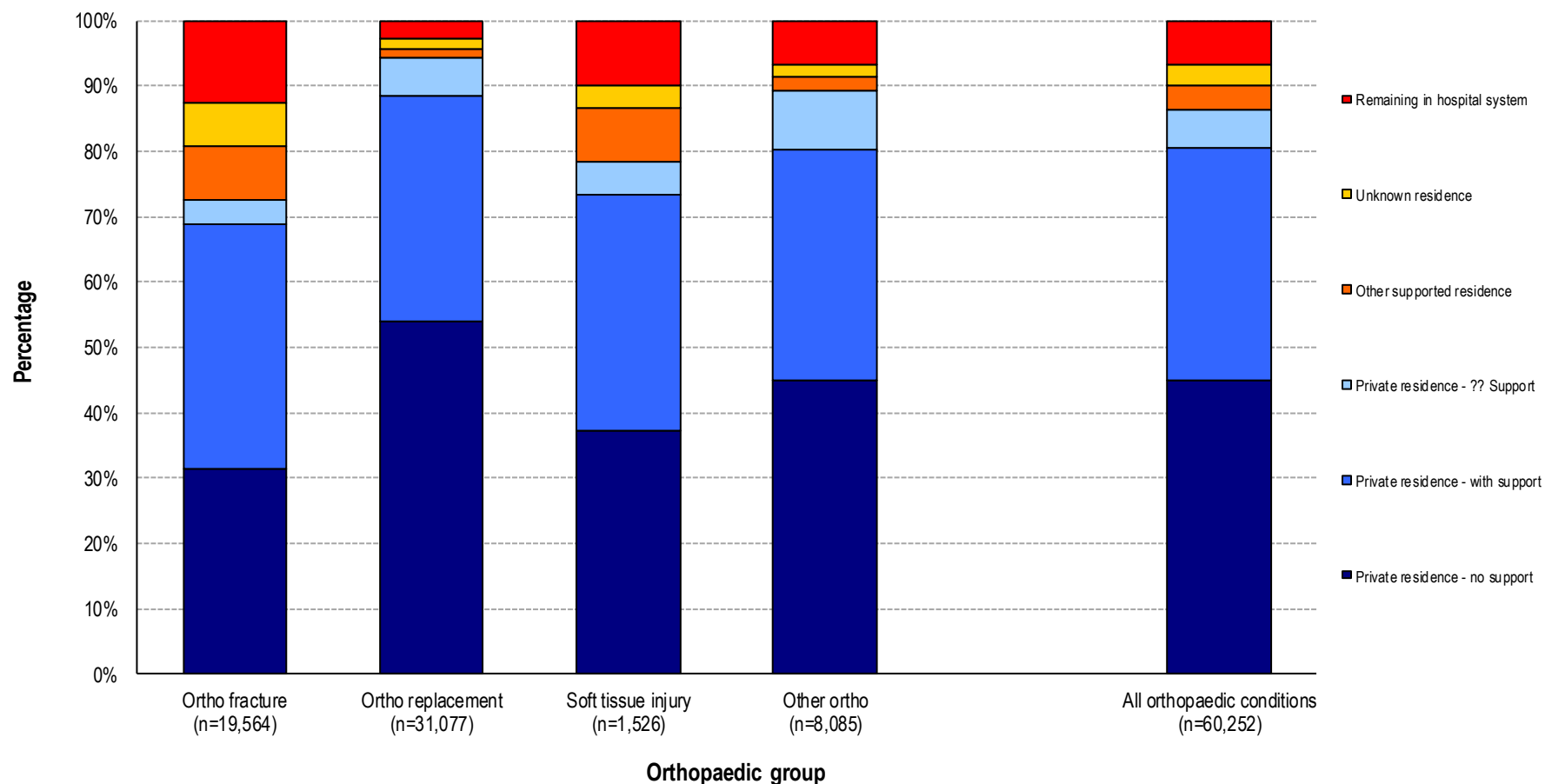


All orthopaedic episodes in 2017

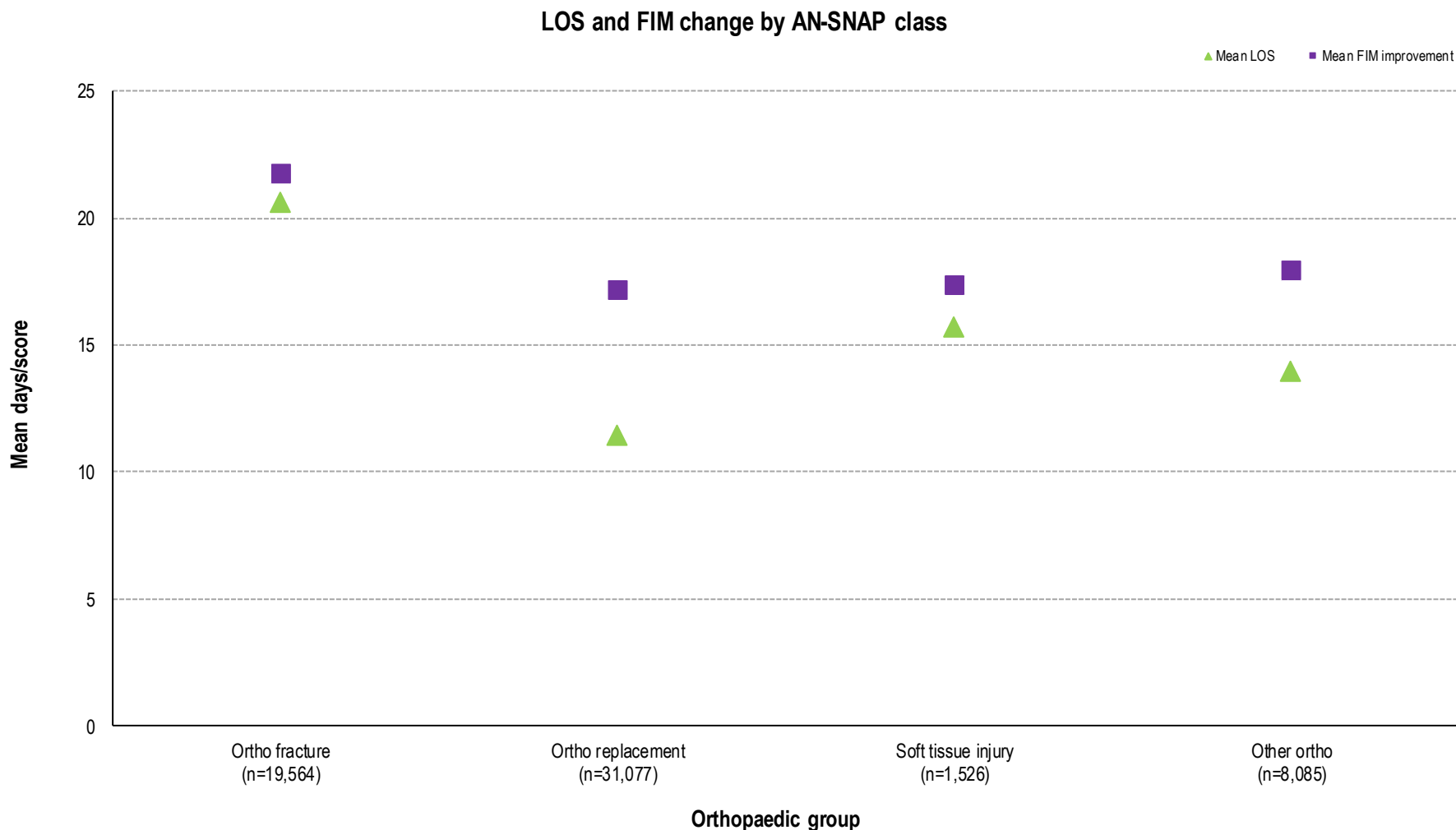
AN-SNAP class:	Ortho fracture	Ortho replacement	Soft tissue injury	Other ortho	All orthopaedic conditions
Number of episodes	19,564	31,077	1,526	8,085	60,252
Proportion of episodes	32.5%	51.6%	2.5%	13.4%	100.0%
Sector (%)					
<i>Private</i>	48.0%	85.8%	61.1%	85.5%	72.9%
<i>Public</i>	52.0%	14.2%	38.9%	14.5%	27.1%
Gender (%)					
<i>Female</i>	70.2%	63.6%	65.4%	61.6%	65.5%
<i>Male</i>	29.8%	36.4%	34.6%	38.4%	34.5%
Age (Mean+95%CI)	78.3 (78.1-78.5)	71.5 (71.4-71.6)	81.3 (80.7-81.9)	69.5 (69.2-69.8)	73.7 (73.6-73.8)
Admission FIM (Mean+95%CI)	80.5 (80.2-80.8)	98.3 (98.1-98.4)	87.3 (86.4-88.2)	96.2 (95.9-96.6)	92.3 (92.1-92.4)
LOS (Mean+95%CI)	20.6 (20.4-20.8)	11.4 (11.4-11.5)	15.7 (15.2-16.3)	14.0 (13.7-14.2)	14.7 (14.6-14.8)
Discharge destination (%)					
<i>Discharged to community</i>	87.5%	97.2%	90.1%	93.4%	93.4%
<i>Remaining in hospital system</i>	12.5%	2.8%	9.9%	6.6%	6.6%
FIM change (Mean+95%CI)	21.7 (21.6-21.9)	17.1 (17.0-17.2)	17.3 (16.7-18.0)	18.0 (17.7-18.2)	18.7 (18.6-18.8)
FIM efficiency (FIM change/LOS)	1.1	1.5	1.1	1.3	1.3

All Orthopaedic episodes discharge destination by orthopaedic group

Discharge destination - All orthopaedic conditions

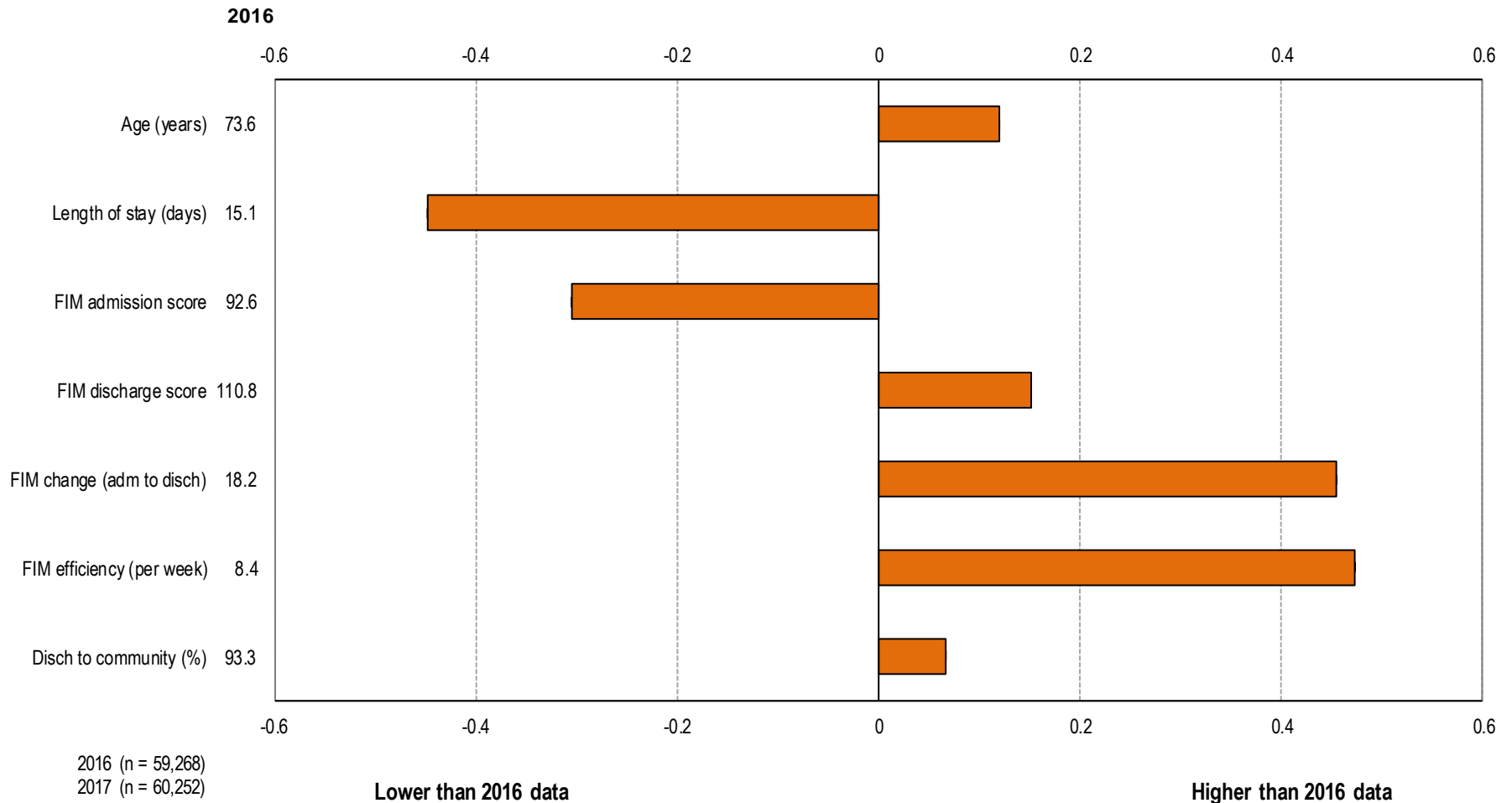


All orthopaedic conditions LOS and FIM change by orthopaedic group



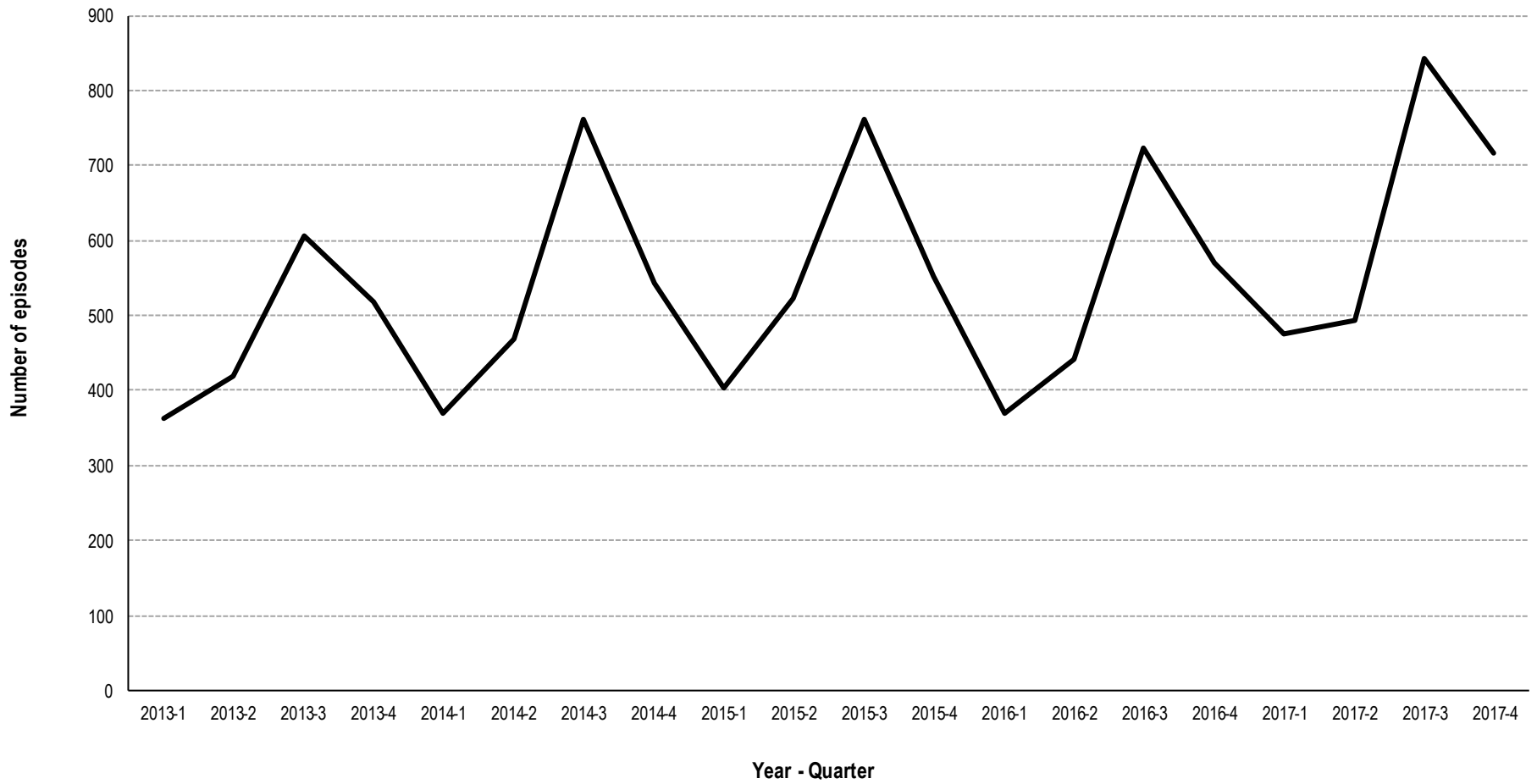
Change in outcome measures in orthopaedic conditions, 2016 to 2017

Difference from 2016 data - All orthopaedic conditions

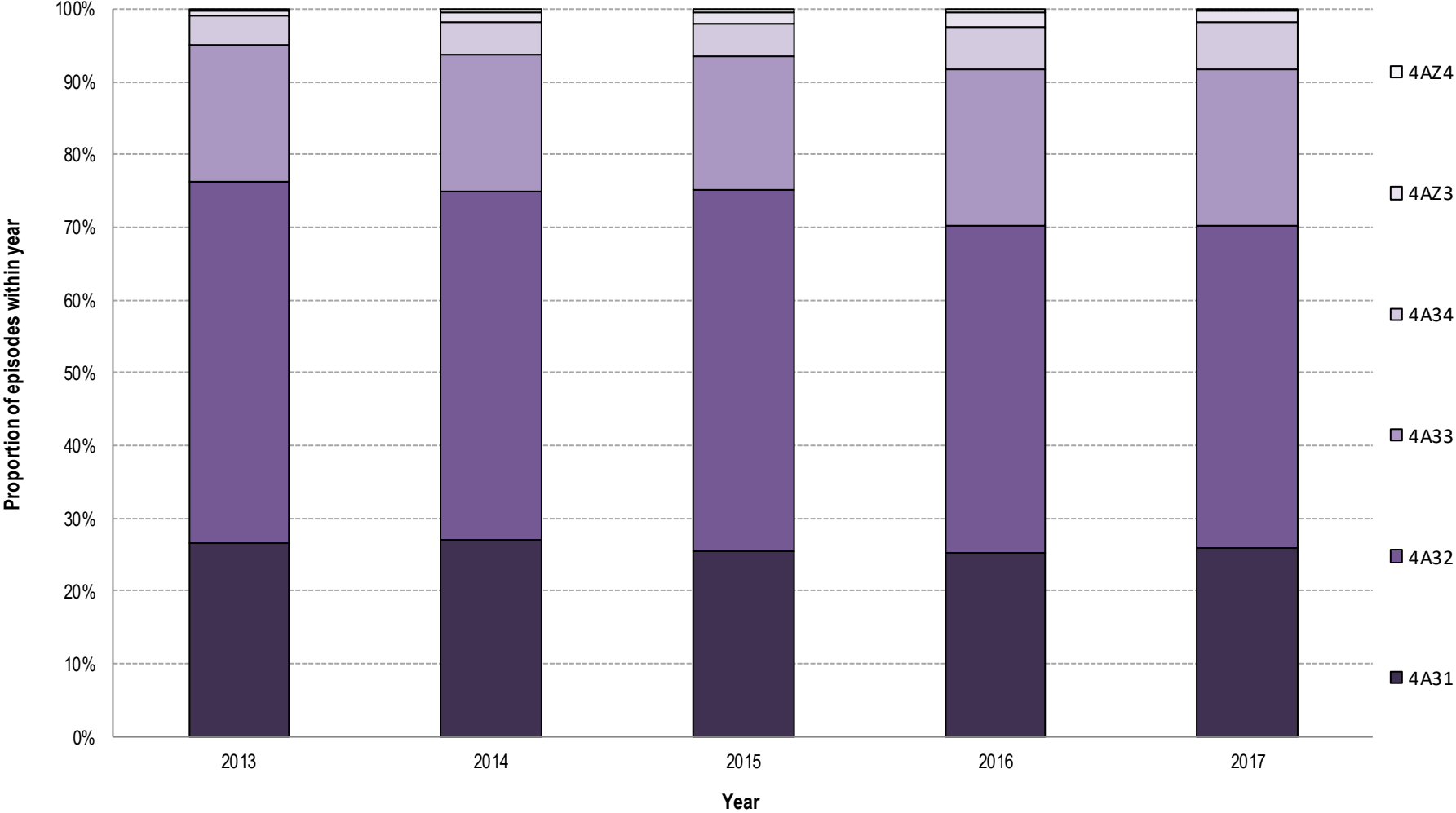


Pulmonary episodes over time

Number of episodes by quarter - Pulmonary



Pulmonary casemix over time



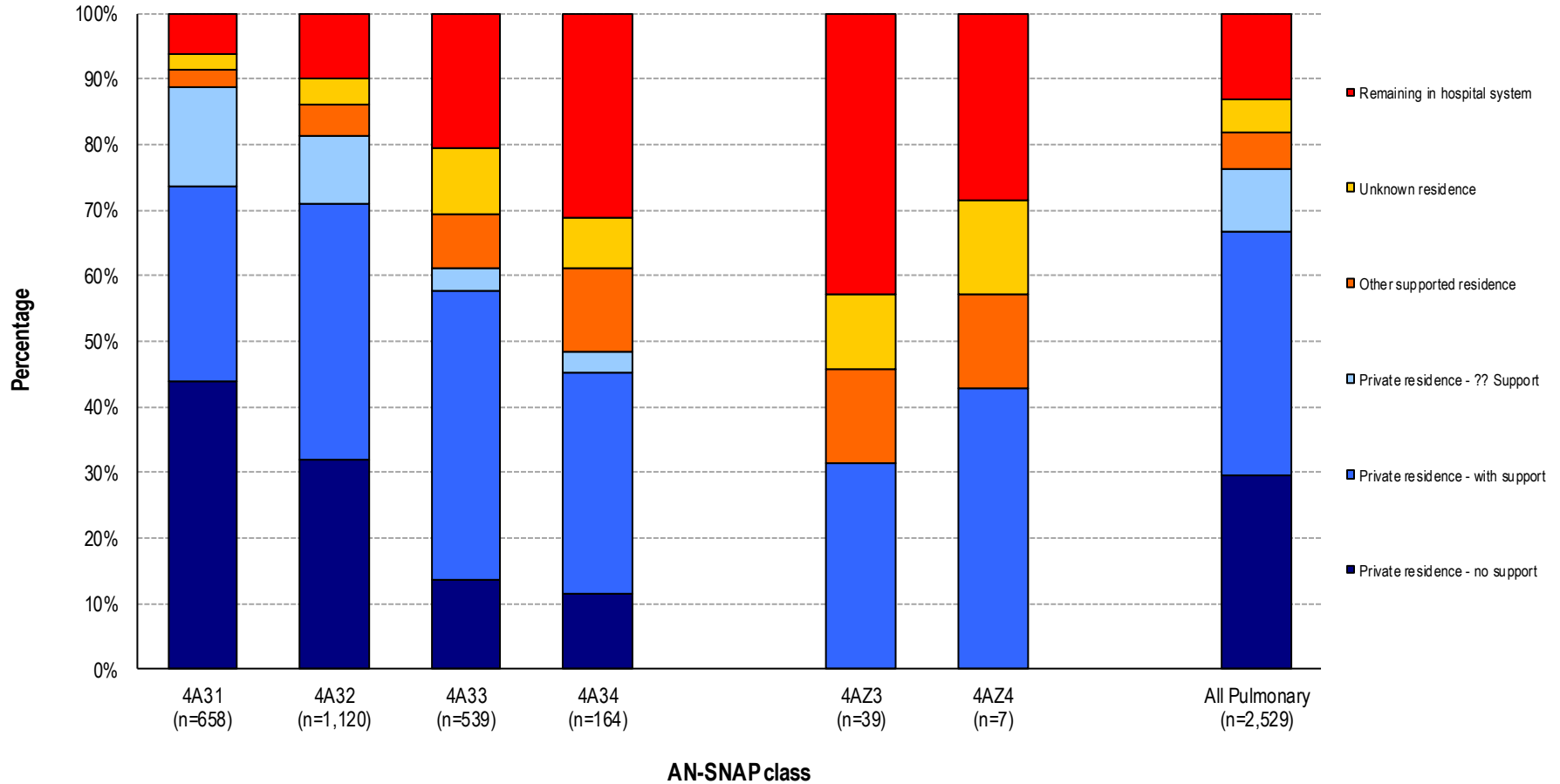
Pulmonary episodes in 2017



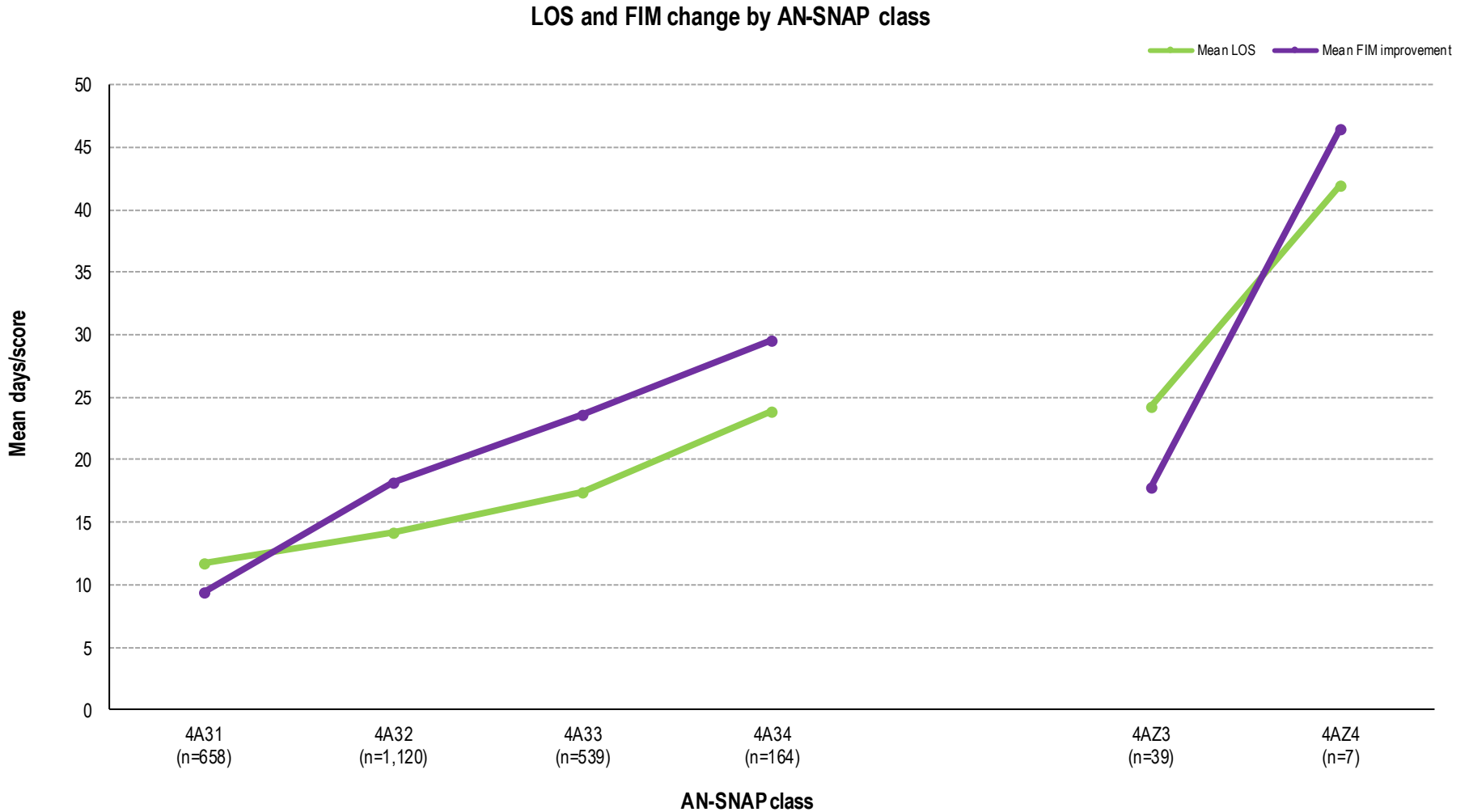
AN-SNAP class:	4A31	4A32	4A33	4A34	4AZ3	4AZ4	All Pulmonary
Number of episodes	658	1,120	539	164	39	7	2,529
Proportion of episodes	26.0%	44.3%	21.3%	6.5%	1.5%	0.3%	100.0%
Sector (%)							
<i>Private</i>	68.1%	63.0%	43.0%	30.5%	20.5%	14.3%	57.2%
<i>Public</i>	31.9%	37.0%	57.0%	69.5%	79.5%	85.7%	42.8%
Gender (%)							
<i>Female</i>	55.5%	56.7%	54.7%	47.0%	46.2%	14.3%	55.0%
<i>Male</i>	44.5%	43.3%	45.3%	53.0%	53.8%	85.7%	45.0%
Age (Mean+95%CI)	77.1 (76.3-78.0)	80.0 (79.4-80.6)	81.4 (80.5-82.3)	77.0 (74.9-79.2)	83.9 (81.4-86.4)	48.9 (38.9-58.9)	79.3 (78.9-79.8)
Admission FIM (Mean+95%CI)	108.3 (107.7-108.8)	91.3 (90.8-91.8)	71.6 (70.7-72.5)	52.6 (50.6-54.5)	30.9 (27.0-34.8)	29.5 (17.7-41.3)	89.5 (88.8-90.3)
LOS (Mean+95%CI)	11.7 (11.2-12.2)	14.2 (13.7-14.6)	17.4 (16.5-18.3)	23.9 (21.1-26.6)	24.3 (19.0-29.6)	42.0 (23.6-60.4)	14.7 (14.4-15.1)
Discharge destination (%)							
<i>Discharged to community</i>	93.9%	90.1%	79.5%	68.8%	57.1%	71.4%	87.0%
<i>Remaining in hospital system</i>	6.1%	9.9%	20.5%	31.2%	42.9%	28.6%	13.0%
FIM change (Mean+95%CI)	9.4 (9.0-9.9)	18.1 (17.6-18.7)	23.7 (22.5-24.8)	29.6 (25.5-33.7)	17.8 (10.2-25.5)	46.5 (15.8-77.2)	17.4 (16.9-17.9)
FIM efficiency (FIM change/LOS)	0.8	1.3	1.4	1.2	0.7	1.1	1.2

Pulmonary discharge destination by AN-SNAP class

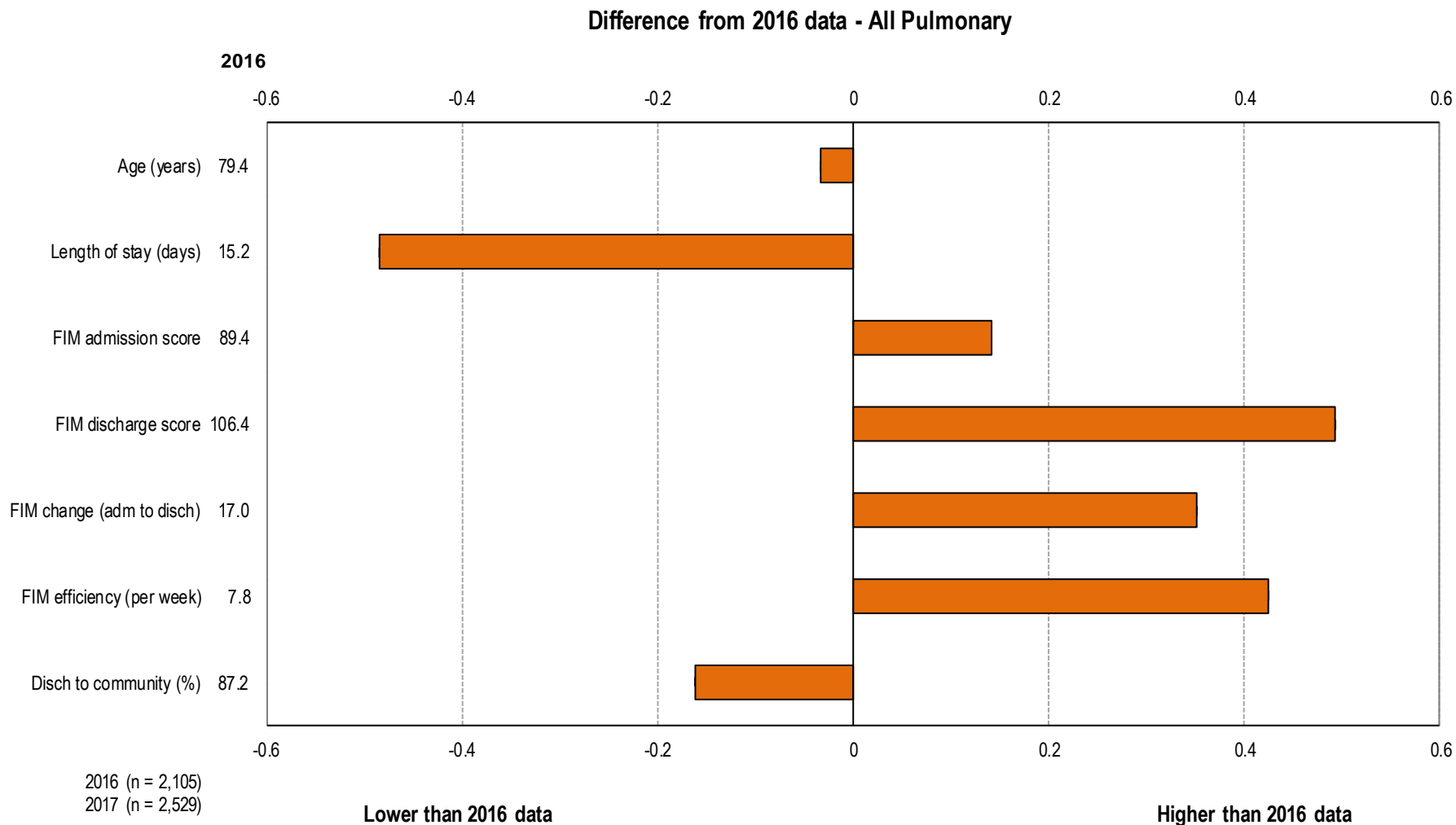
Discharge destination - Pulmonary



Pulmonary LOS and FIM change by AN-SNAP class



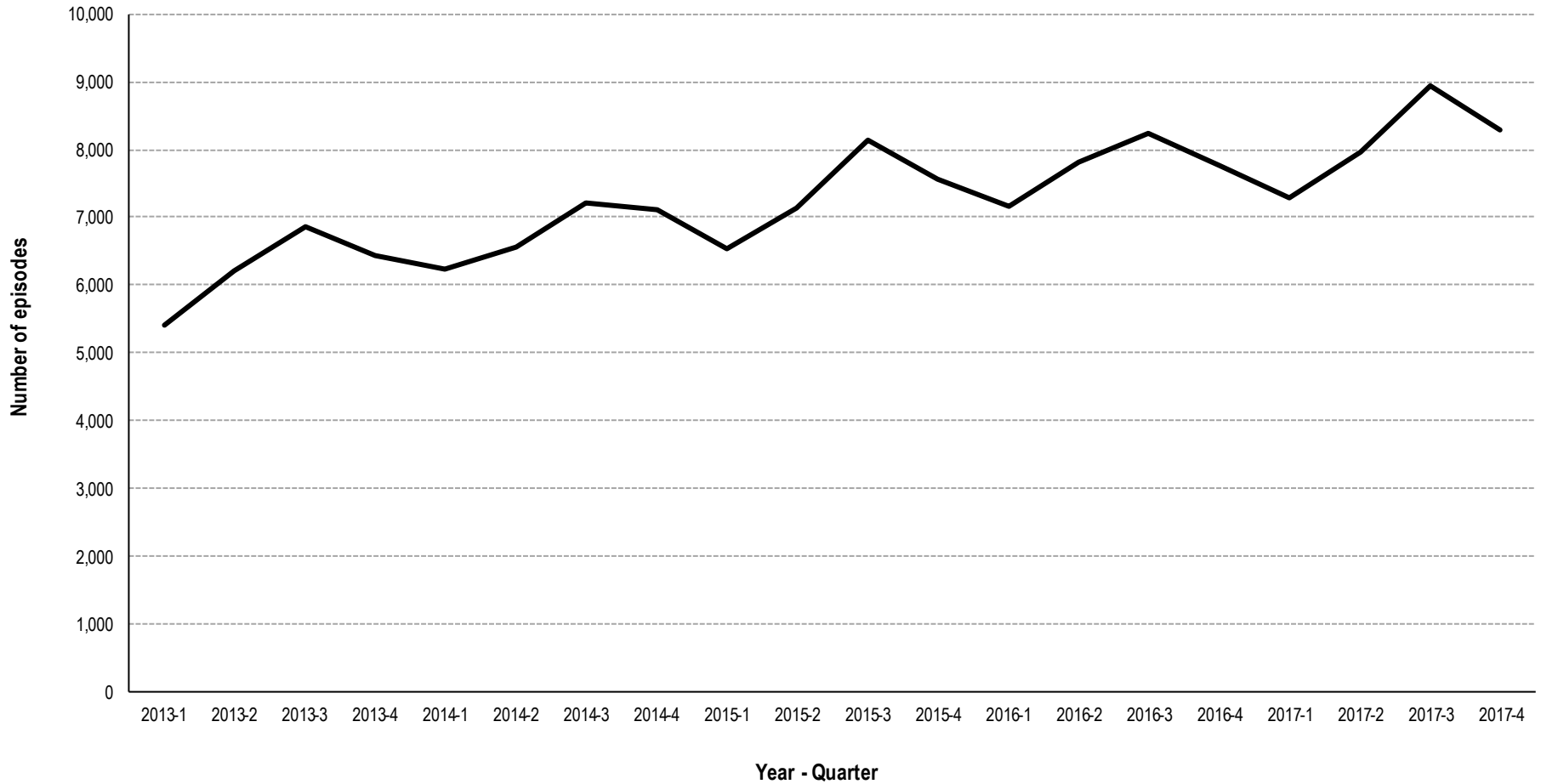
Change in outcome measures in pulmonary, 2016 to 2017



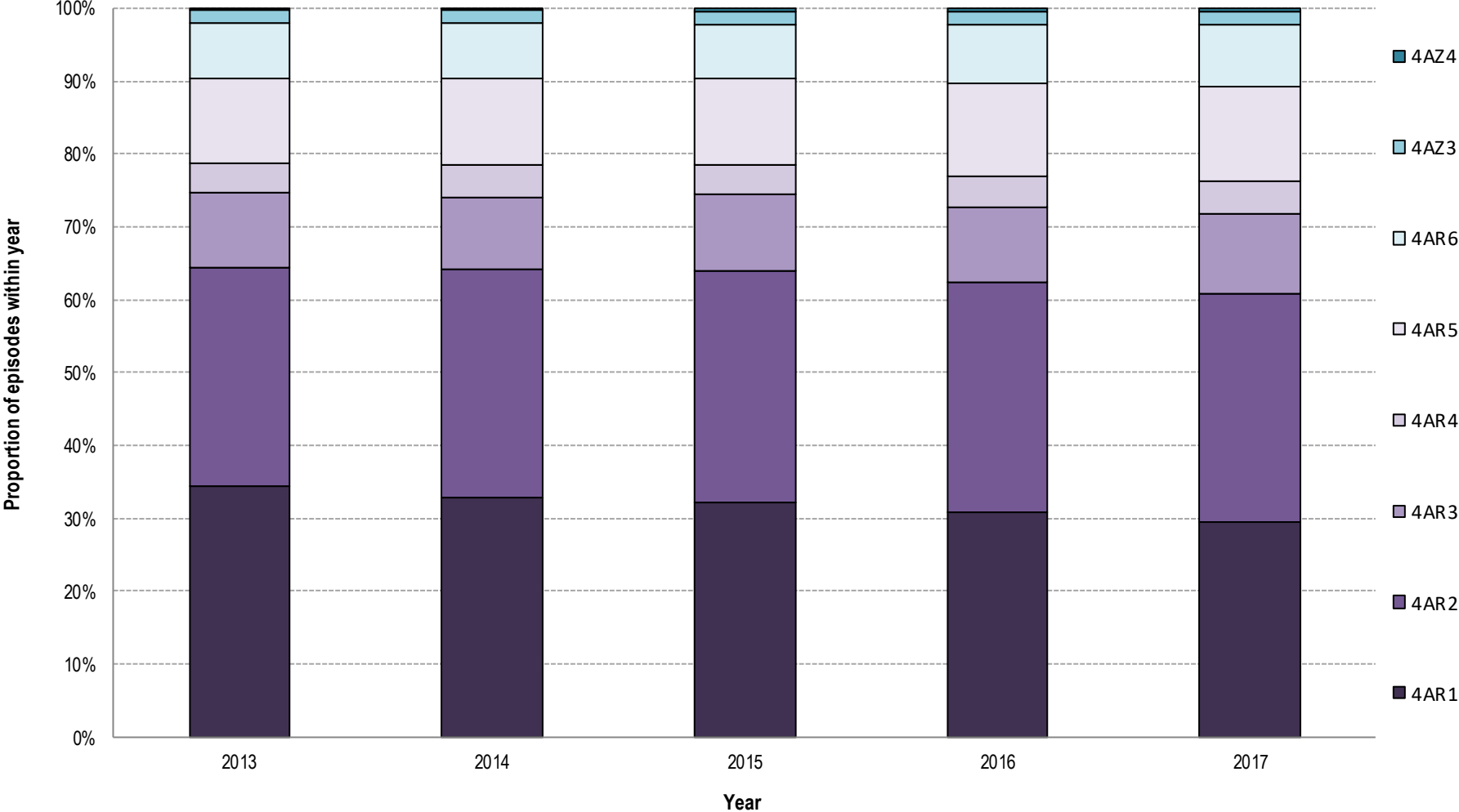
Reconditioning episodes over time



Number of episodes by quarter - Reconditioning



Reconditioning casemix over time



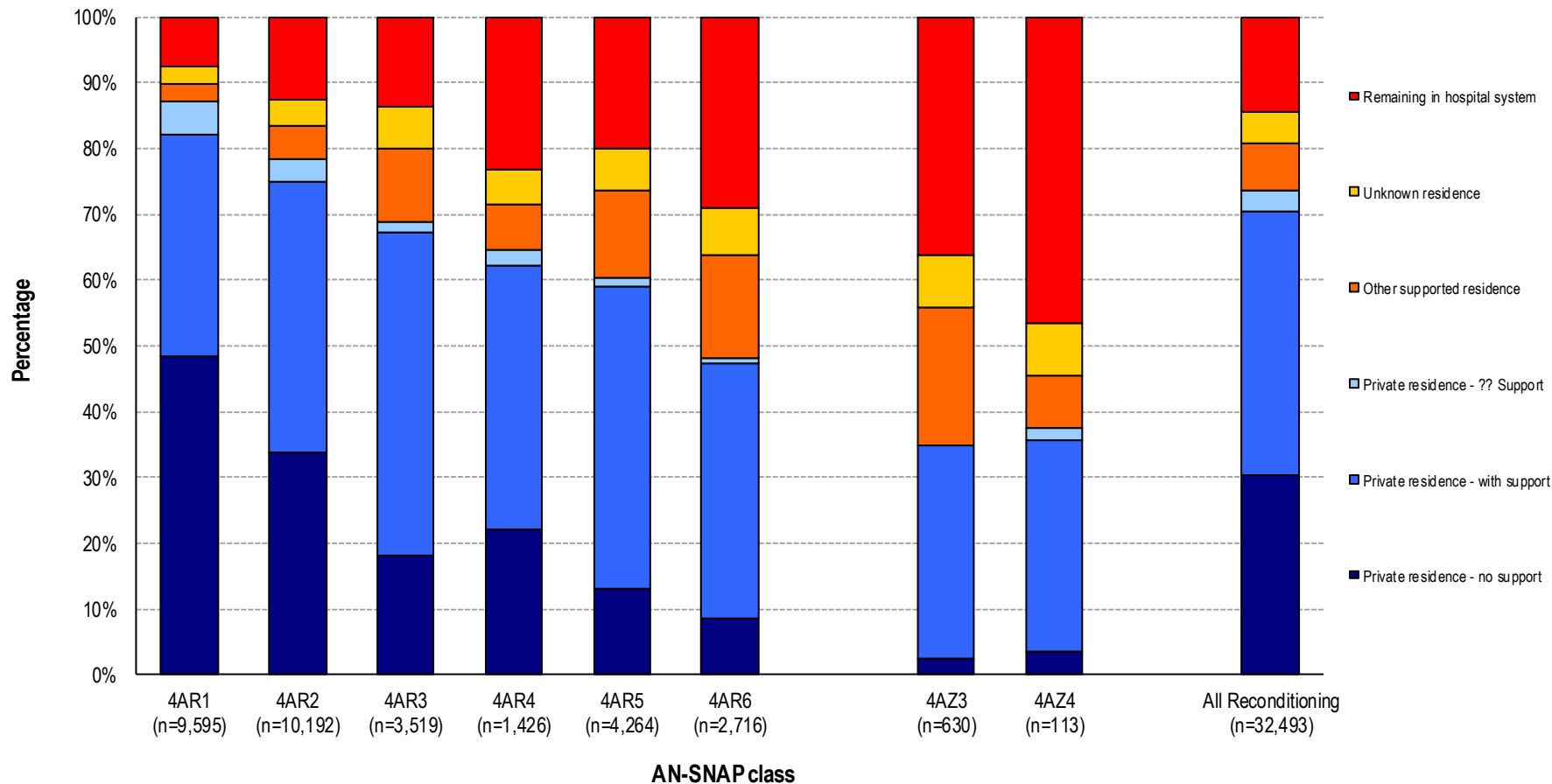
Reconditioning episodes in 2017



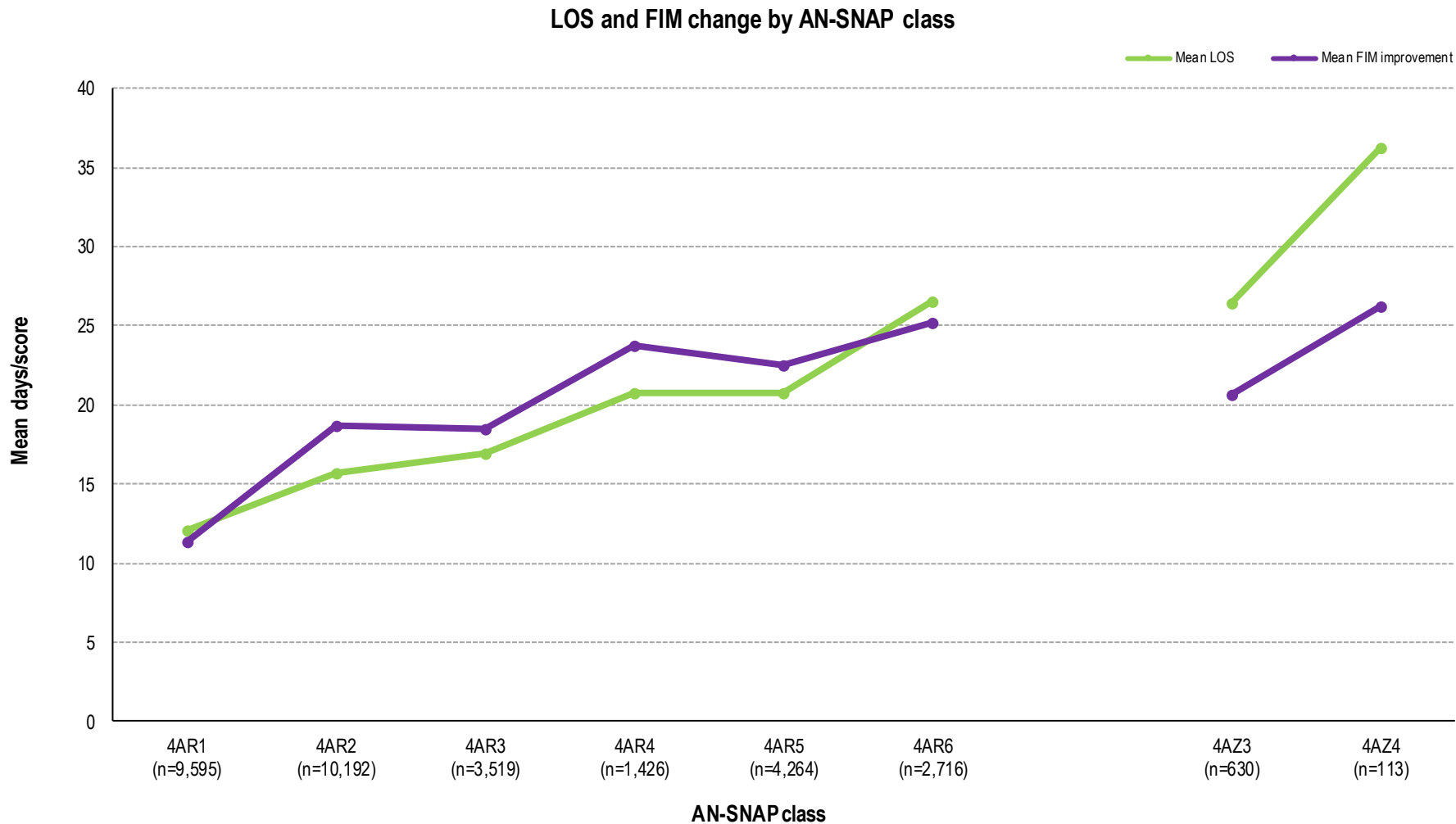
AN-SNAP class:	4AR1	4AR2	4AR3	4AR4	4AR5	4AR6	4AZ3	4AZ4	All Reconditioning
Number of episodes	9,595	10,192	3,519	1,426	4,264	2,716	630	113	32,493
Proportion of episodes	29.5%	31.4%	10.8%	4.4%	13.1%	8.4%	1.9%	0.3%	100.0%
Sector (%)									
<i>Private</i>	71.9%	66.8%	51.3%	48.7%	44.2%	33.6%	30.0%	8.0%	59.2%
<i>Public</i>	28.1%	33.2%	48.7%	51.3%	55.8%	66.4%	70.0%	92.0%	40.8%
Gender (%)									
<i>Female</i>	56.8%	59.8%	53.8%	55.8%	50.8%	49.4%	51.9%	44.2%	55.8%
<i>Male</i>	43.2%	40.2%	46.2%	44.2%	49.2%	50.6%	48.1%	55.8%	44.2%
Age (Mean+95%CI)	77.1 (76.9-77.3)	80.7 (80.5-80.9)	82.2 (81.9-82.5)	77.0 (76.3-77.6)	82.1 (81.8-82.4)	78.1 (77.6-78.6)	82.5 (81.8-83.1)	52.8 (50.9-54.8)	79.5 (79.4-79.7)
Admission FIM (Mean+95%CI)	104.3 (104.2-104.5)	89.1 (89.0-89.2)	76.9 (76.7-77.1)	76.0 (75.8-76.3)	64.5 (64.2-64.7)	50.3 (49.9-50.7)	30.9 (30.0-31.8)	36.1 (33.7-38.5)	85.3 (85.1-85.5)
LOS (Mean+95%CI)	12.1 (12.0-12.2)	15.7 (15.5-15.8)	17.0 (16.6-17.3)	20.8 (20.0-21.5)	20.7 (20.3-21.1)	26.5 (25.7-27.3)	26.4 (24.5-28.3)	36.3 (31.5-41.1)	16.5 (16.3-16.6)
Discharge destination (%)									
<i>Discharged to community</i>	92.6%	87.5%	86.3%	76.9%	79.9%	70.9%	63.7%	53.6%	85.5%
<i>Remaining in hospital system</i>	7.4%	12.5%	13.7%	23.1%	20.1%	29.1%	36.3%	46.4%	14.5%
FIM change (Mean+95%CI)	11.3 (11.2-11.5)	18.7 (18.5-18.9)	18.5 (18.1-18.9)	23.8 (23.0-24.5)	22.5 (22.0-23.0)	25.2 (24.4-26.0)	20.7 (18.6-22.8)	26.2 (19.9-32.6)	17.5 (17.4-17.7)
FIM efficiency (FIM change/LOS)	0.9	1.2	1.1	1.1	1.1	1.0	0.8	0.7	1.1

Reconditioning discharge destination by AN-SNAP class

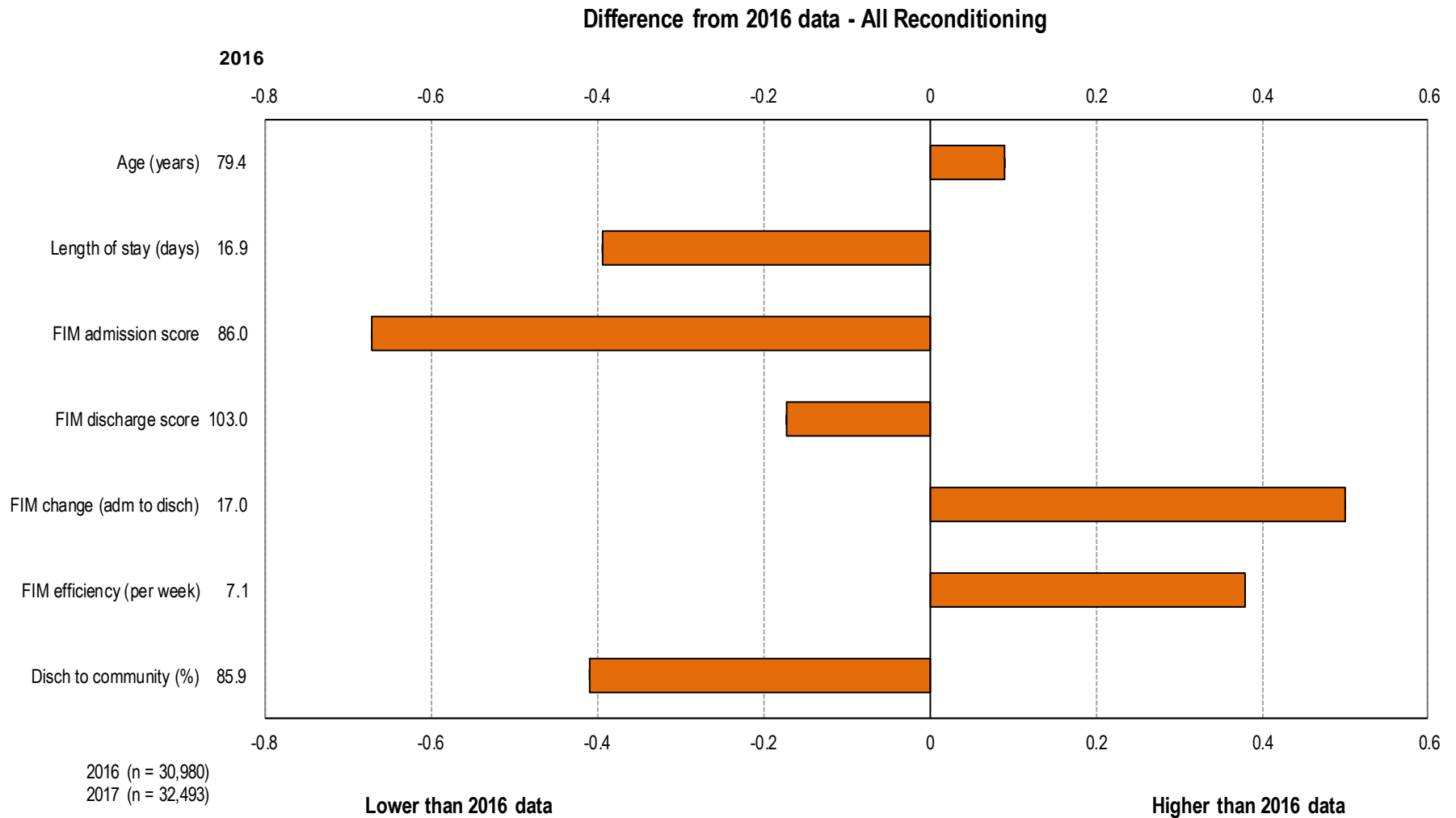
Discharge destination - Reconditioning



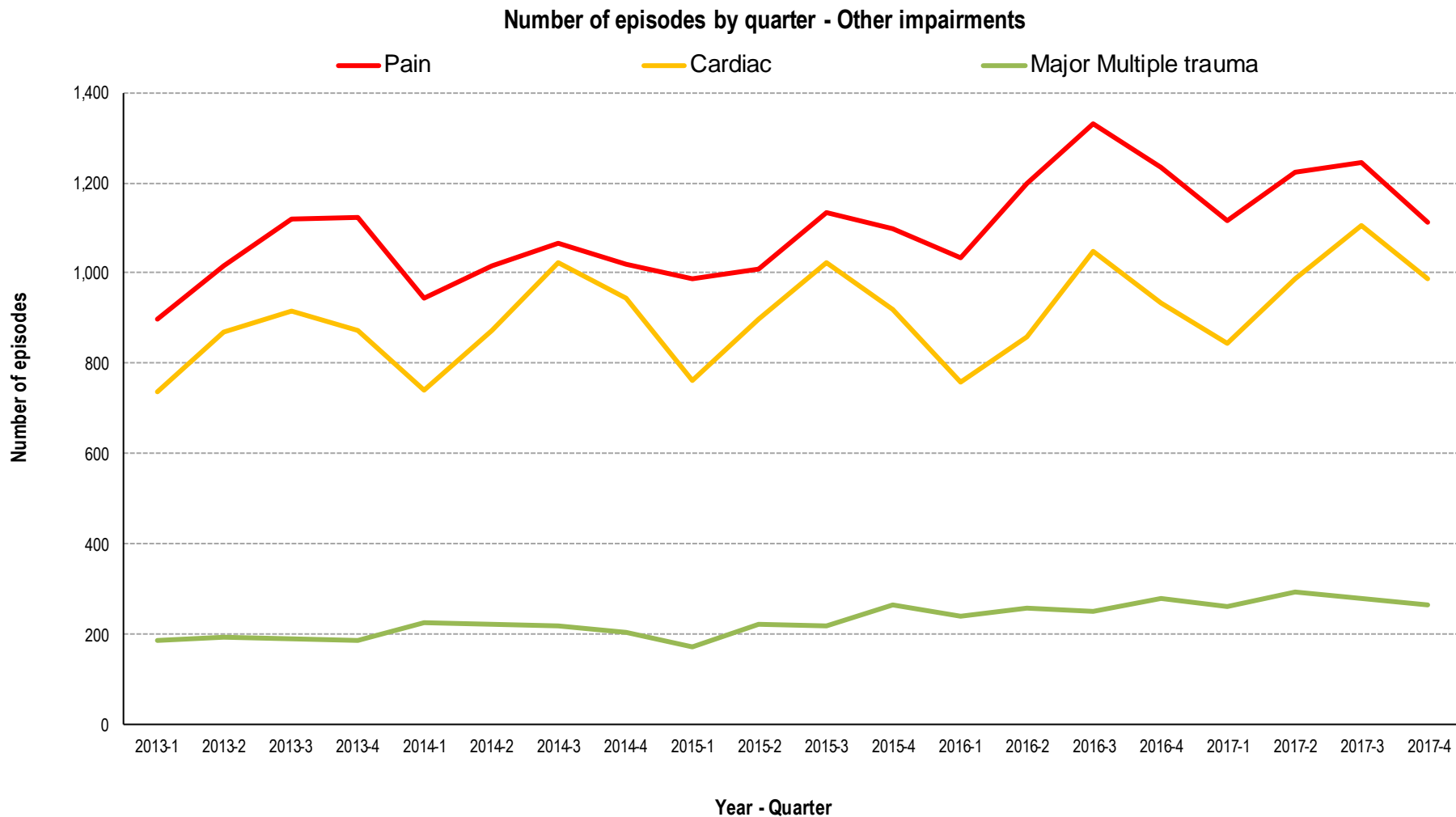
Reconditioning LOS and FIM change by AN-SNAP class



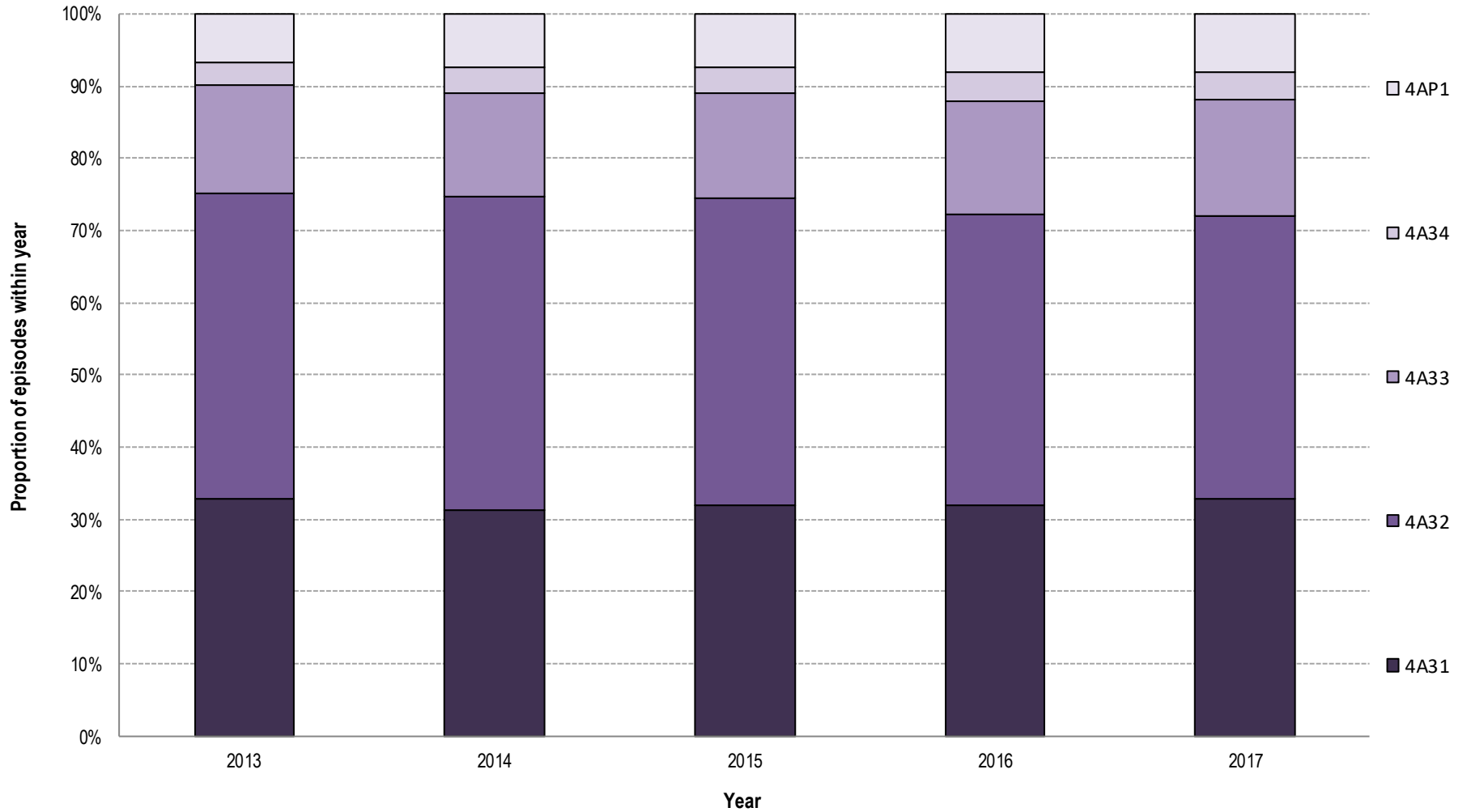
Change in outcome measures in reconditioning, 2016 to 2017



Other impairment episodes over time



Other impairments casemix over time

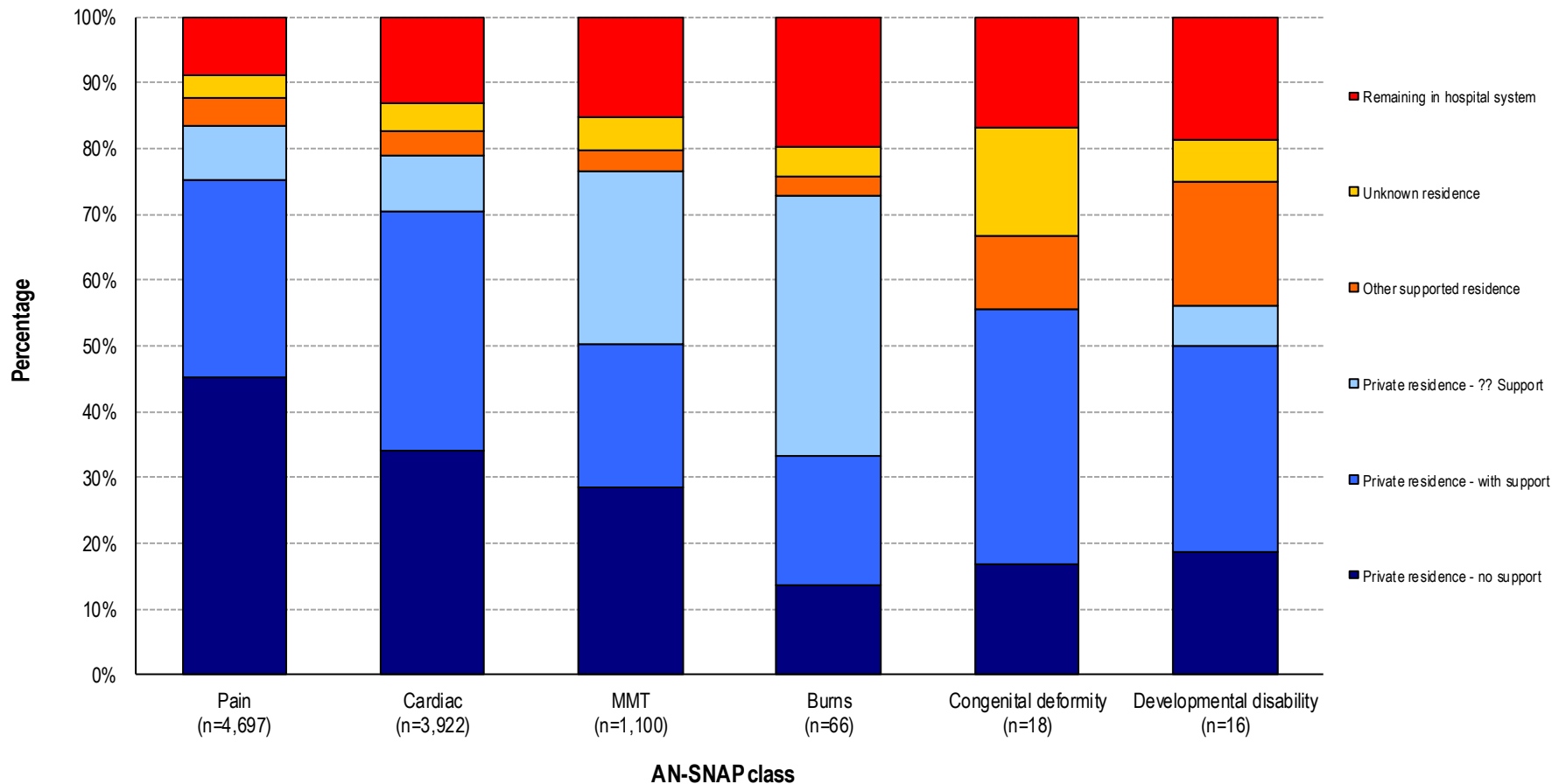


Other impairment episodes in 2017

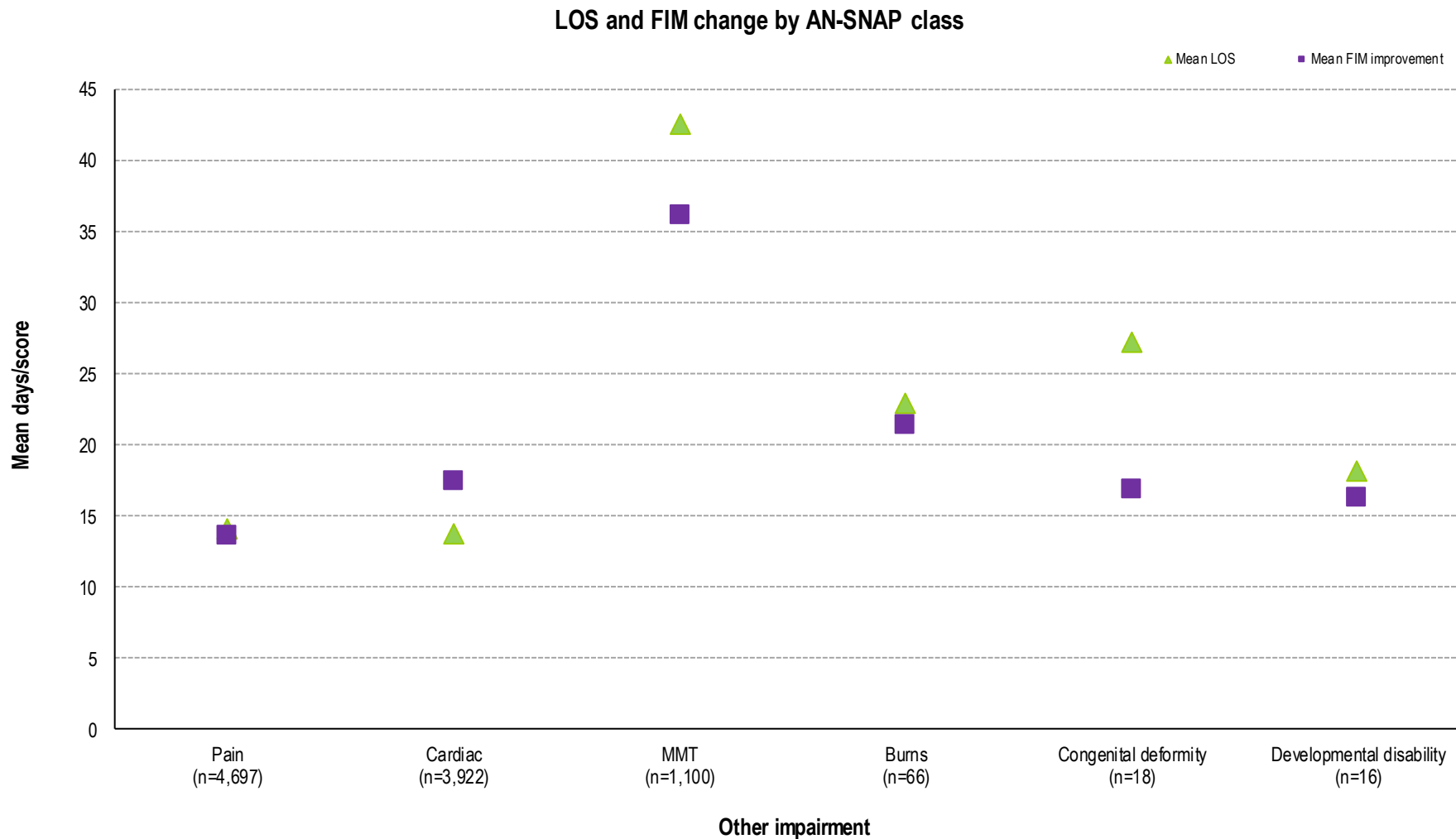
AN-SNAP class:	Pain	Cardiac	MMT	Burns	Congenital deformity	Developmental disability
Number of episodes	4,697	3,922	1,100	66	18	16
Proportion of total episodes in 2017	3.7%	3.1%	0.9%	0.1%	0.0%	0.0%
Sector (%)						
<i>Private</i>	<i>74.5%</i>	<i>69.0%</i>	<i>51.0%</i>	<i>12.1%</i>	<i>22.2%</i>	<i>31.3%</i>
<i>Public</i>	<i>25.5%</i>	<i>31.0%</i>	<i>49.0%</i>	<i>87.9%</i>	<i>77.8%</i>	<i>68.8%</i>
Gender (%)						
<i>Female</i>	<i>68.9%</i>	<i>47.9%</i>	<i>31.0%</i>	<i>31.8%</i>	<i>61.1%</i>	<i>50.0%</i>
<i>Male</i>	<i>31.1%</i>	<i>52.1%</i>	<i>69.0%</i>	<i>68.2%</i>	<i>38.9%</i>	<i>50.0%</i>
Age (Mean+95%CI)	70.2 (69.6-70.7)	79.2 (78.9-79.5)	48.7 (47.5-49.9)	60.6 (55.8-65.4)	60.9 (50.4-71.5)	53.6 (41.9-65.3)
Admission FIM (Mean+95%CI)	98.2 (97.6-98.7)	93.4 (92.8-93.9)	73.9 (72.4-75.4)	86.3 (80.9-91.7)	75.5 (63.1-87.9)	77.9 (66.2-89.6)
LOS (Mean+95%CI)	14.1 (13.7-14.4)	13.7 (13.5-14.0)	42.6 (39.5-45.7)	22.9 (18.8-27.0)	27.2 (17.7-36.7)	18.2 (12.8-23.7)
Discharge destination (%)						
<i>Discharged to community</i>	<i>91.2%</i>	<i>87.0%</i>	<i>84.9%</i>	<i>80.3%</i>	<i>83.3%</i>	<i>81.3%</i>
<i>Remaining in hospital system</i>	<i>8.8%</i>	<i>13.0%</i>	<i>15.1%</i>	<i>19.7%</i>	<i>16.7%</i>	<i>18.8%</i>
FIM change (Mean+95%CI)	13.7 (13.3-14.0)	17.4 (17.1-17.8)	36.2 (34.8-37.6)	21.4 (17.0-25.8)	16.9 (10.5-23.4)	16.3 (10.1-22.5)
FIM efficiency (FIM change/LOS)	1.0	1.3	0.8	0.9	0.6	0.9

Other impairment discharge destination by impairment group

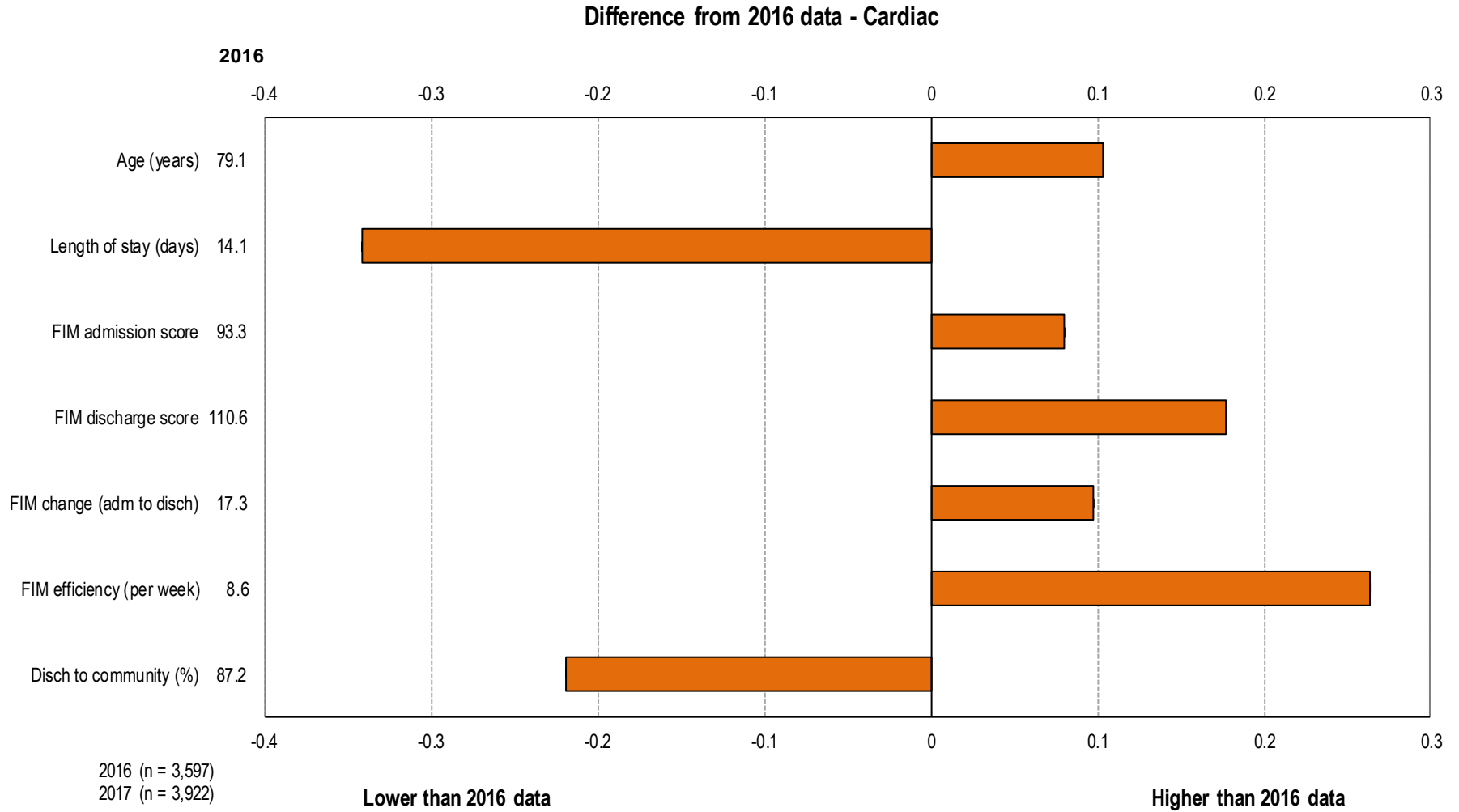
Discharge destination - Other impairments



Other impairment LOS and FIM change by impairment group



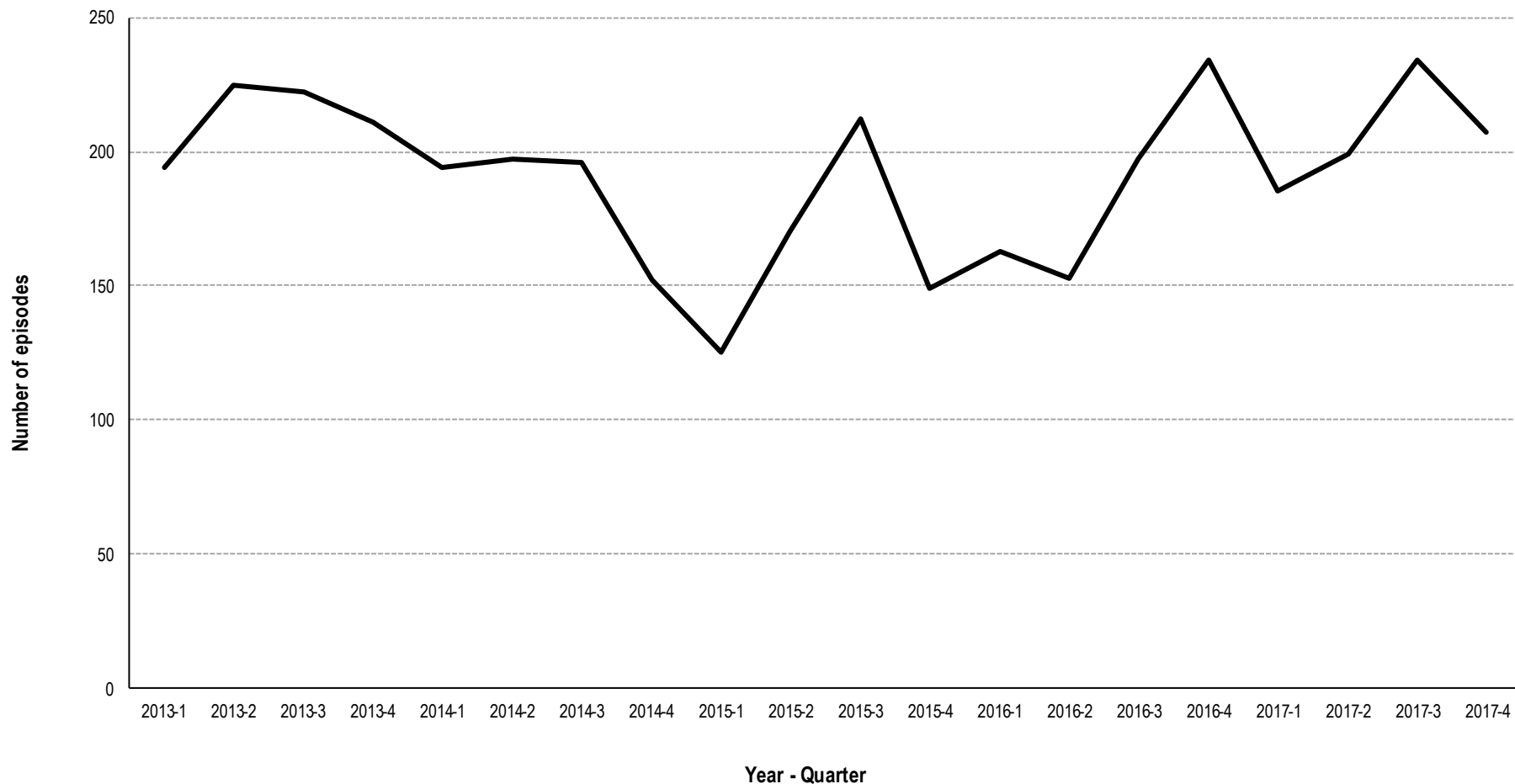
Change in outcome measures in cardiac, 2016 to 2017



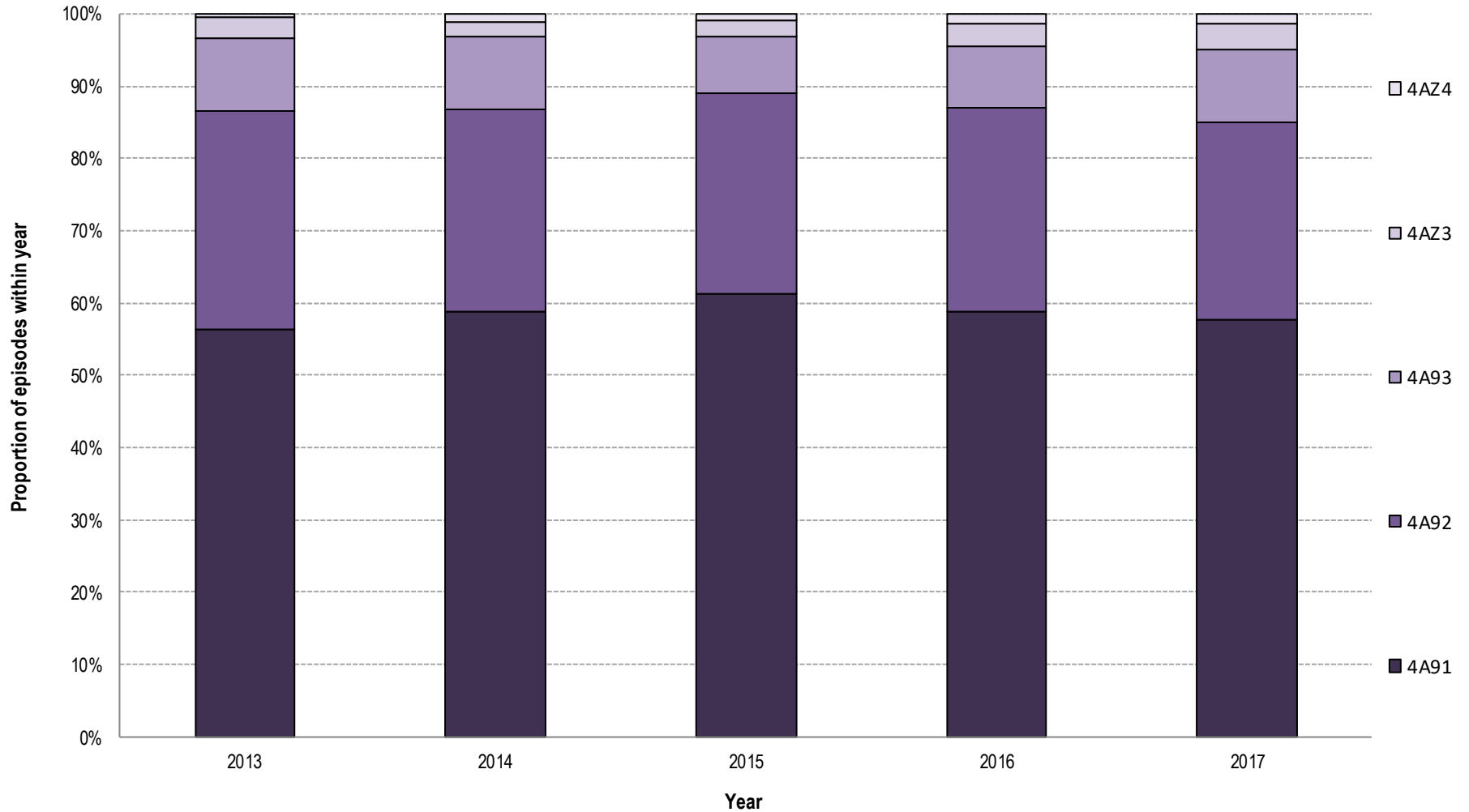
Other disabling impairment episodes over time



Number of episodes by quarter - Other disabling impairments



Other disabling impairments casemix over time



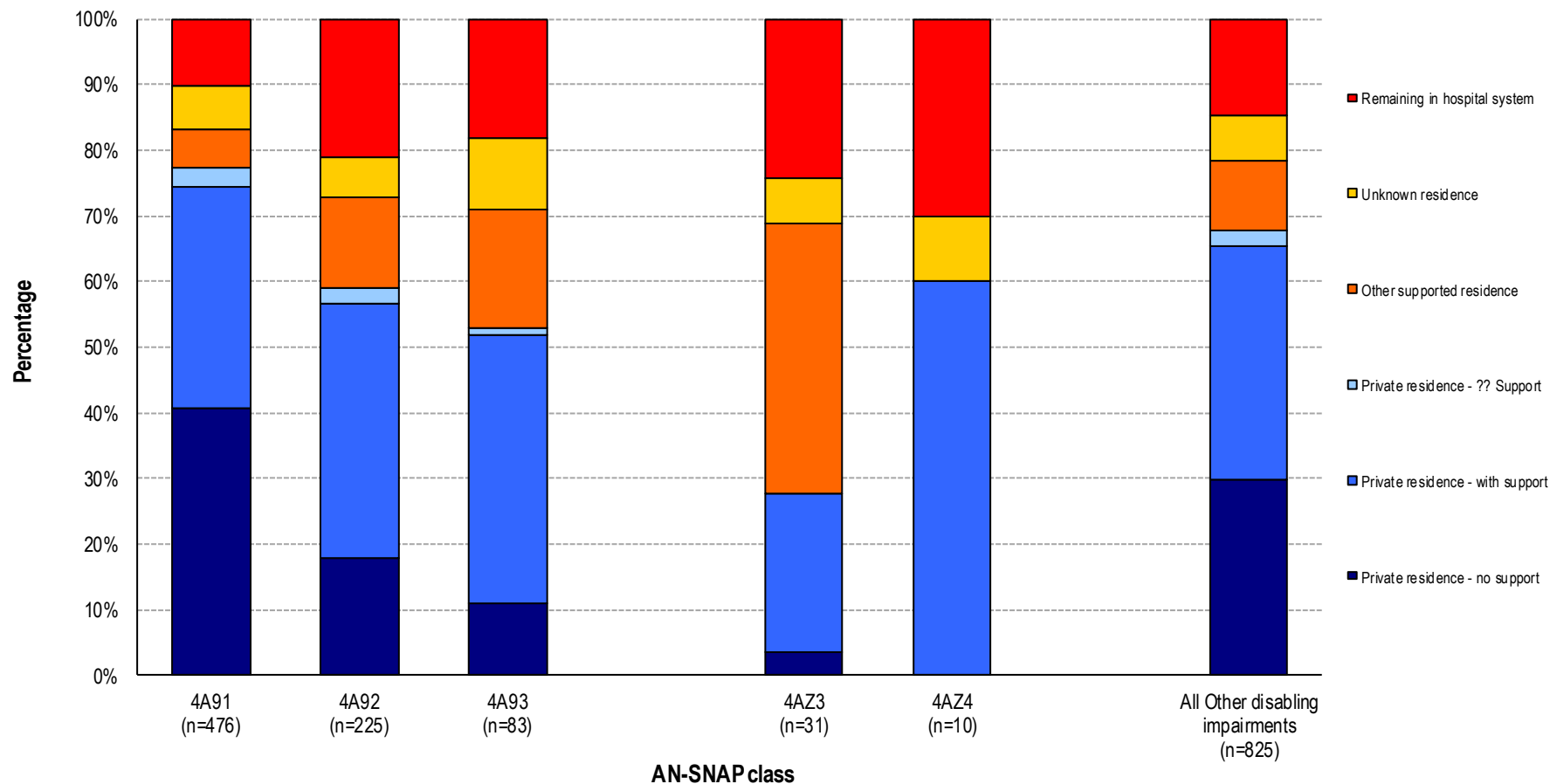
Other disabling impairment episodes in 2017



AN-SNAP class:	4A91	4A92	4A93	4AZ3	4AZ4	All Other disabling impairments
Number of episodes	476	225	83	31	10	825
Proportion of episodes	57.7%	27.3%	10.1%	3.8%	1.2%	100.0%
Sector (%)						
<i>Private</i>	43.9%	16.9%	15.7%	3.2%	10.0%	31.8%
<i>Public</i>	56.1%	83.1%	84.3%	96.8%	90.0%	68.2%
Gender (%)						
<i>Female</i>	59.9%	56.4%	48.2%	51.6%	50.0%	57.3%
<i>Male</i>	40.1%	43.6%	51.8%	48.4%	40.0%	42.5%
Age (Mean+95%CI)	68.3 (66.7-69.9)	73.6 (71.2-76.0)	71.0 (67.2-74.7)	80.3 (77.7-82.9)	47.9 (41.7-54.1)	70.2 (69.0-71.5)
Admission FIM (Mean+95%CI)	99.5 (98.3-100.7)	69.8 (68.2-71.3)	51.0 (48.7-53.4)	28.0 (23.9-32.2)	30.3 (22.1-38.5)	84.2 (82.5-86.0)
LOS (Mean+95%CI)	16.4 (15.4-17.4)	20.6 (18.3-22.9)	25.8 (20.9-30.7)	21.1 (14.9-27.3)	42.6 (16.5-68.7)	18.8 (17.8-19.9)
Discharge destination (%)						
<i>Discharged to community</i>	89.9%	79.0%	81.9%	75.9%	70.0%	85.4%
<i>Remaining in hospital system</i>	10.1%	21.0%	18.1%	24.1%	30.0%	14.6%
FIM change (Mean+95%CI)	11.3 (10.4-12.2)	21.8 (19.6-24.0)	23.0 (18.1-27.8)	18.4 (7.5-29.2)	17.4 (-1.4-36.3)	15.4 (14.4-16.5)
FIM efficiency (FIM change/LOS)	0.7	1.1	0.9	0.9	0.4	0.8

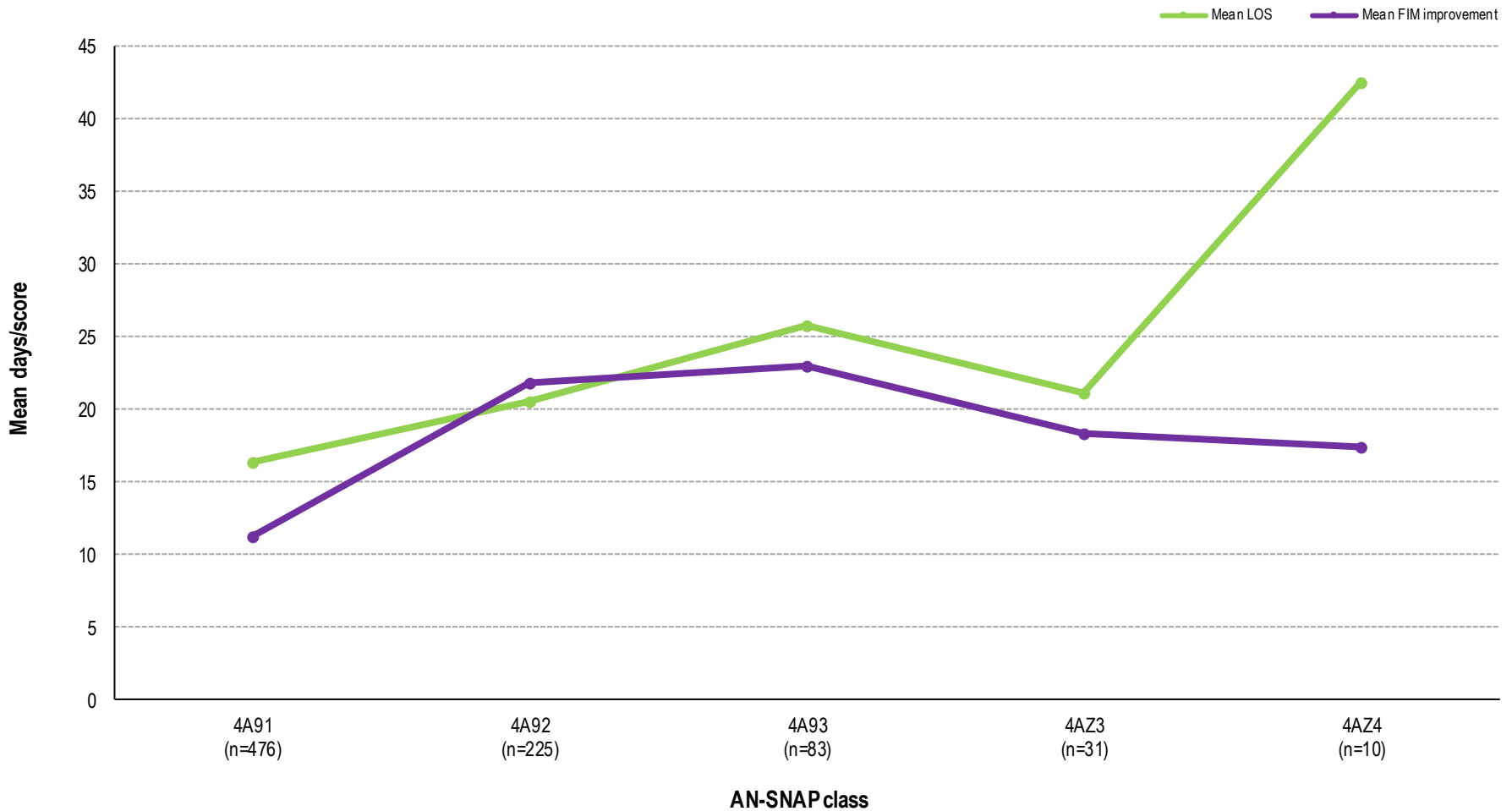
Other disabling impairment discharge destination by AN-SNAP class

Discharge destination - Other disabling impairments

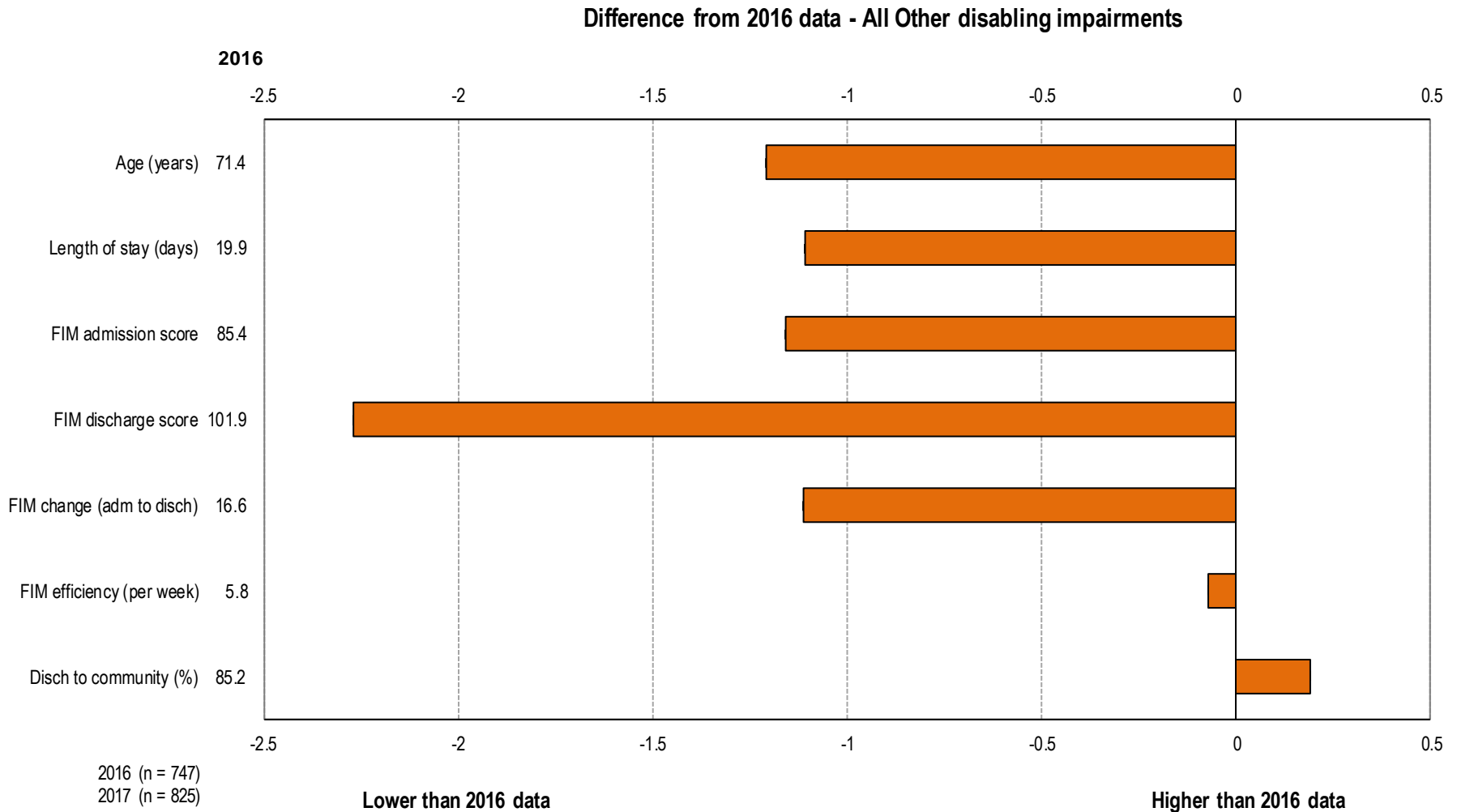


Other disabling impairment LOS and FIM change by AN-SNAP class

LOS and FIM change by AN-SNAP class



Change in outcome measures in other disabling impairments, 2016 to 2017



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