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The AROC annual report: the state of rehabilitation in New Zealand in 2015

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The AROC annual report: the state of rehabilitation in New Zealand in 2015

Abstract

This is the fourth comprehensive annual report describing discharge episodes from subacute inpatient rehabilitation programs provided by New Zealand facilities that are members of the Australasian Rehabilitation Outcomes Centre (AROC). The inaugural report was published in 2013 and described the 2012 data; this fourth instalment describes the 2015 data. This report is the first to use the version 4 AN-SNAP classification (to be 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 introduces an extended times series analysis, looking at change in various rehabilitation measures over the most recent five years. The provision of rehabilitation in New Zealand continues to grow in volume, with 2015 seeing a 1.4% real increase in inpatient episodes of rehabilitation provided. The majority of that volume growth is coming from the reconditioning and orthopaedic fractures impairment groups.

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The AROC Annual Report:

The state of rehabilitation in New Zealand in 2015



Australasian Faculty of Rehabilitation

Medicine





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Introduction

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

The inaugural report was published in 2013 and described the 2012 data; this fourth instalment describes the 2015 data.

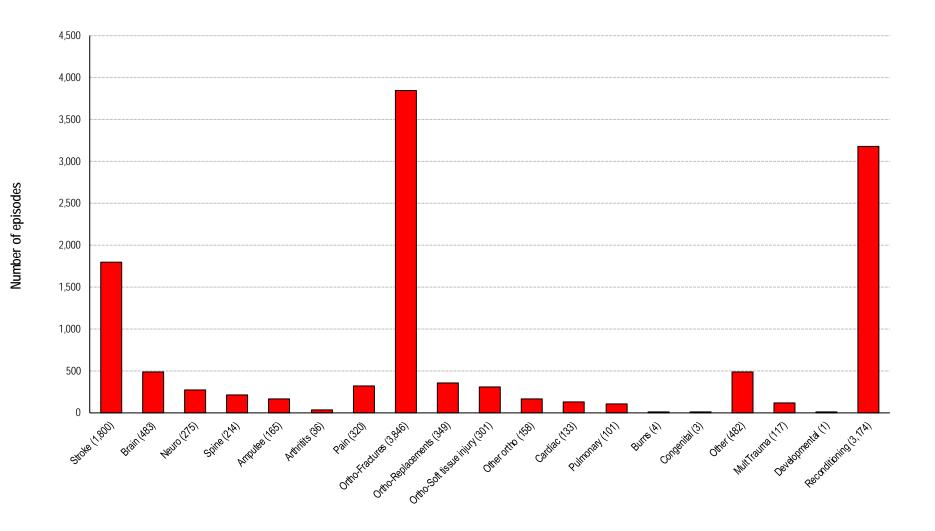
This report is the first to use the version 4 AN-SNAP classification (to be implemented in Australia in July 2016). For more information about AN-SNAP classification please refer to the AROC website: <u>http://ahsri.uow.edu.au/aroc</u>

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

The provision of rehabilitation in New Zealand continues to grow in volume, with 2015 seeing a 1.4% real increase in inpatient episodes of rehabilitation provided. The majority of that volume growth is coming from the reconditioning and orthopaedic fractures impairment groups.

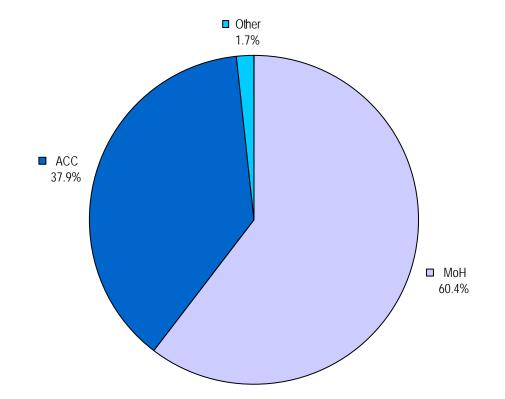


Number of episodes by impairment group, 2015



4

Funding source for rehabilitation in New Zealand, 2015



Changes in rehabilitation – compared to last year

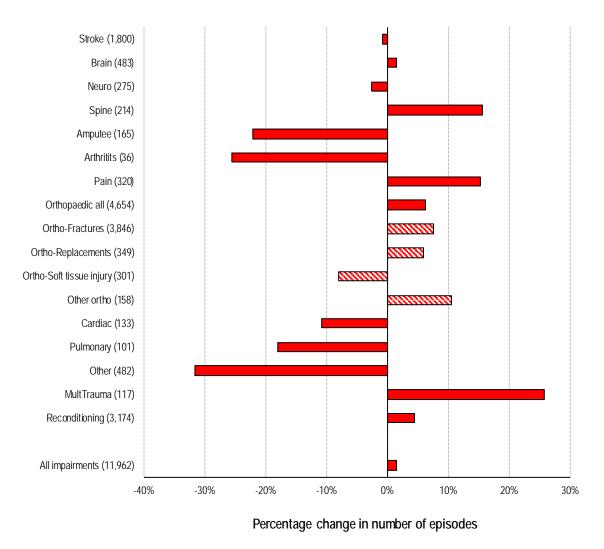


The following figures look at changes in rehabilitation between last year and this year:

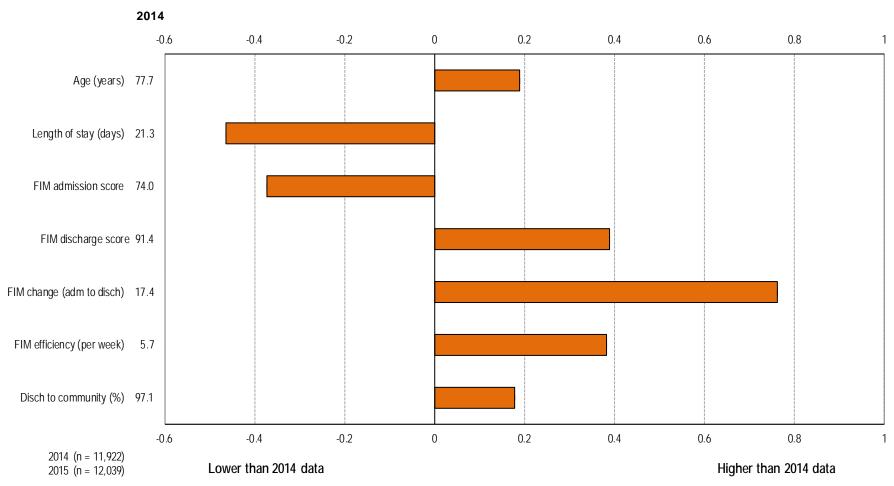
- The first figure considers the number of episodes within each impairment group and documents real changes in episode volume since last year.
- The second figure presents the key changes in rehabilitation outcome measures between last year and this year. The horizontal axis describes the difference 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, 2014 to 2015



Change in outcome measures, 2014 to 2015



Difference from 2014 data

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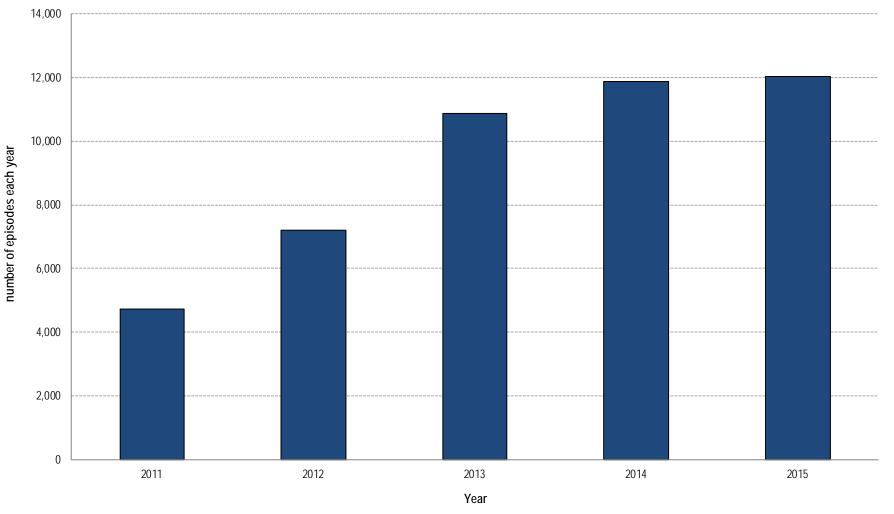
Changes in rehabilitation – compared to five years ago

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

- The first figure shows the total number of episodes each year over the past 5 years.
- The second 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 third 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 score as a proportion of the total score possible
 - FIM change as a proportion of the total change possible
 - FIM efficiency

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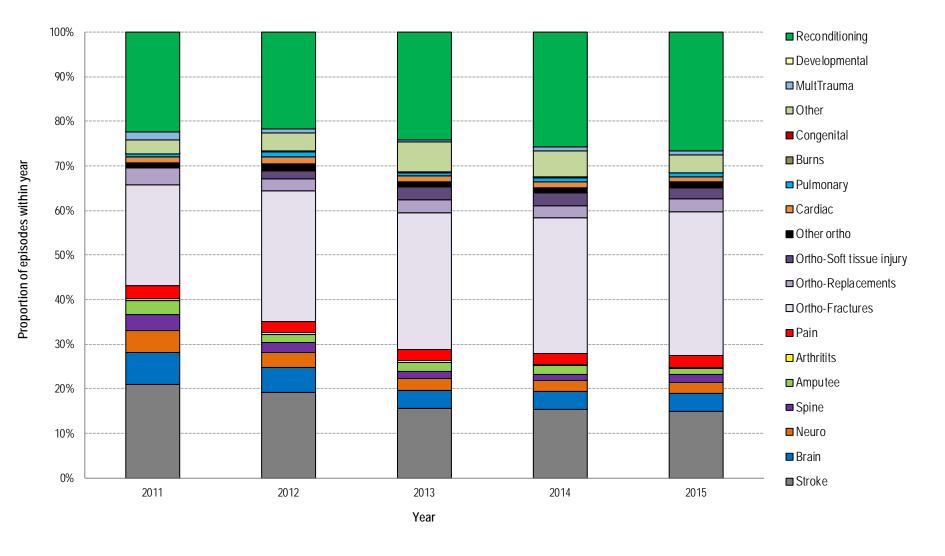
Number of episodes each year - 2011 to 2015



A large number of the New Zealand facilities joined AROC during the 2011-2012 period. This increase in data submitting facilities is responsible for most of the growth in number of episodes during 2011-2013.

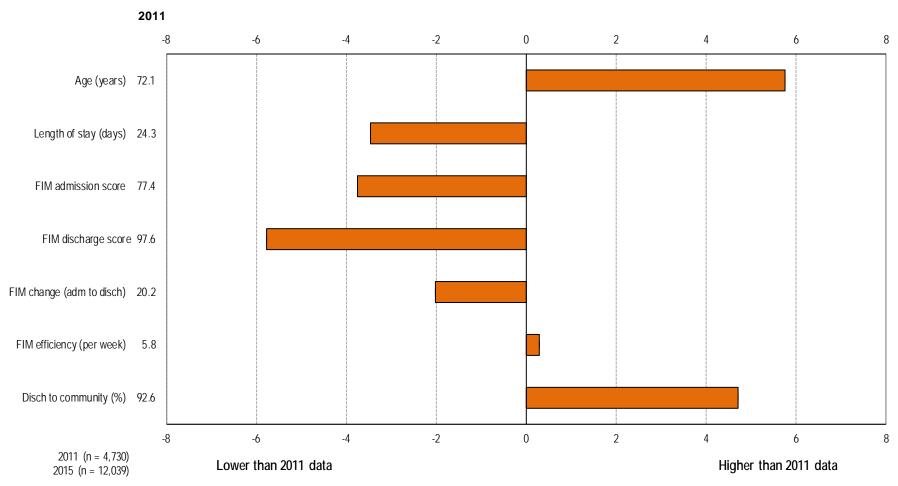
AROC State of Nations - 2015 report - New Zealand

Proportion of episodes by impairment group, 2011 to 2015



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Change in outcome measures, 2011 to 2015

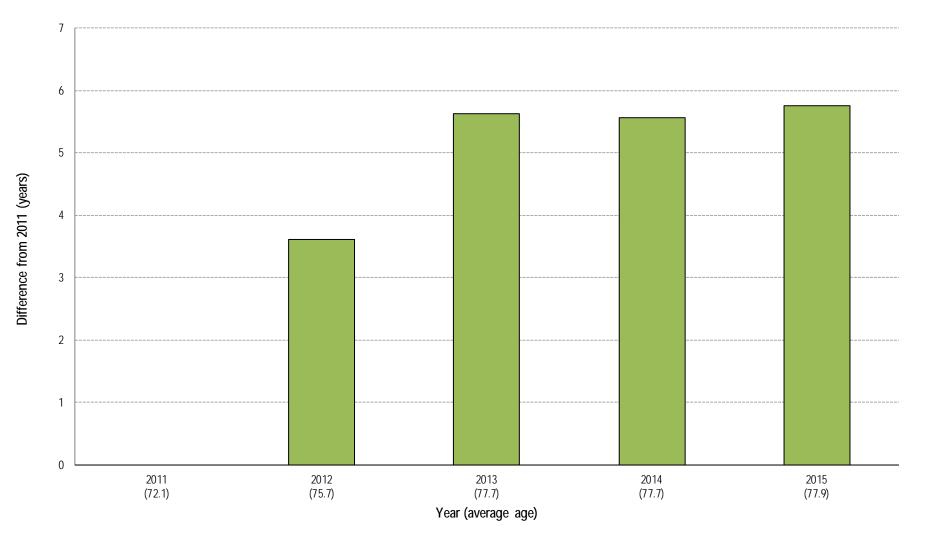


Difference from 2011 data

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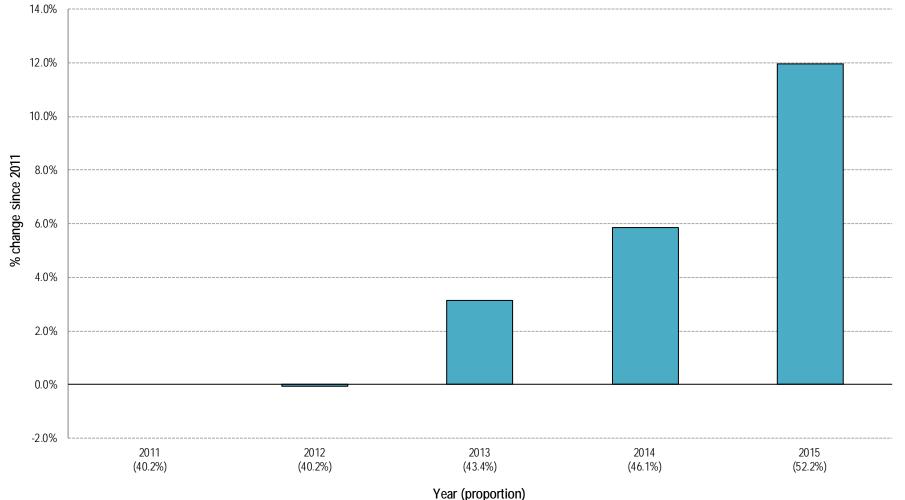


Average age compared to five years ago



Over the last five years patients have been getting older; patients in 2015 were almost 6 years older than in 2011.

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

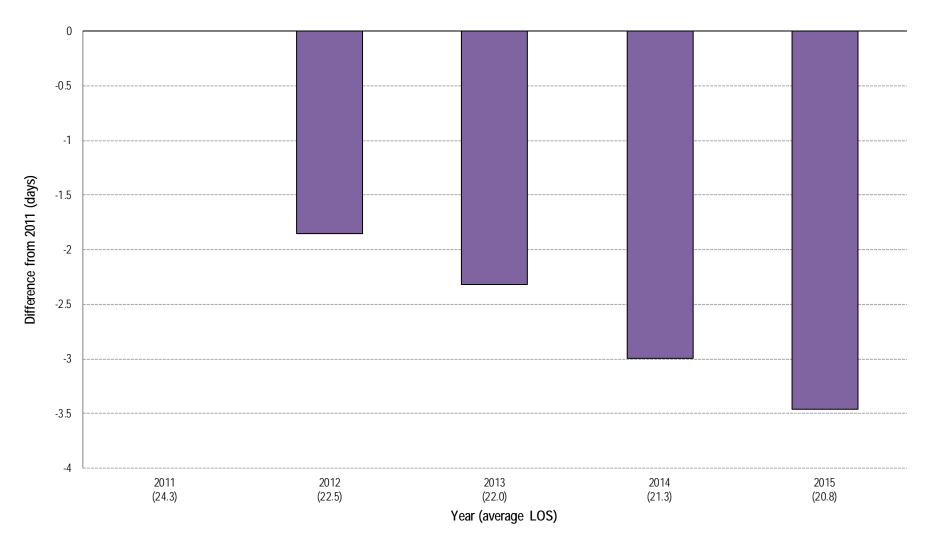


Over the last five years patients have been commencing rehabilitation sooner after their injury /onset of symptoms; in 2015 12% more patients were admitted to rehabilitation within a week of onset compared to in 2011.

AROC State of Nations - 2015 report - New Zealand

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Length of stay compared to five years ago



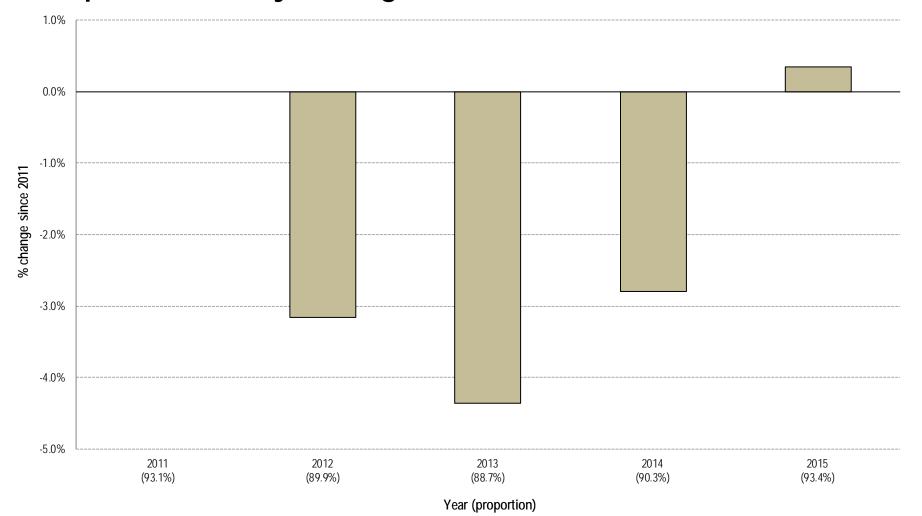
Over the last five years rehabilitation length of stay (LOS) has been declining; in 2015 patients stayed just under 3.5 days less than they did in 2011.

AROC State of Nations - 2015 report - New Zealand

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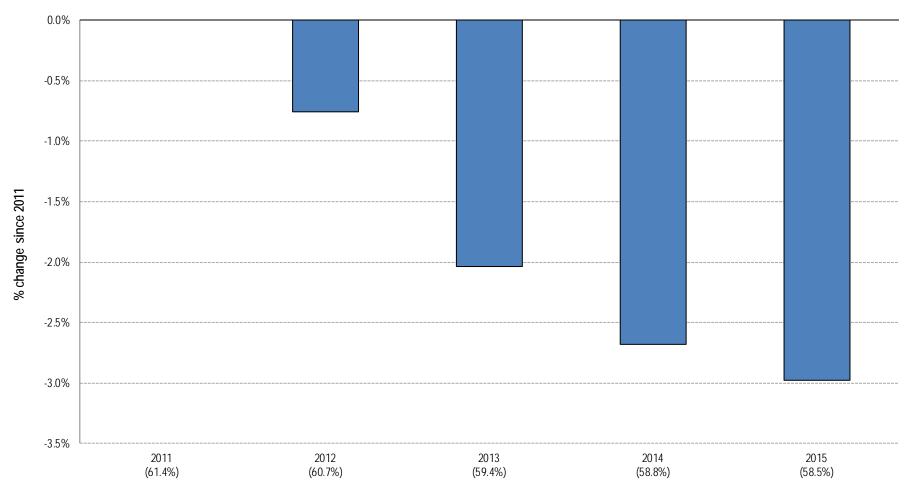
Timeliness of FIM assessment within 72 hours compared to five years ago



Over the last five years the number of patients assessed for their functional ability within three days of rehabilitation commencing has fluctuated. Since 2013 there has been a steady increase in the proportion of patients assessed for their functional ability within three days of rehabilitation.

AROC State of Nations - 2015 report - New Zealand

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

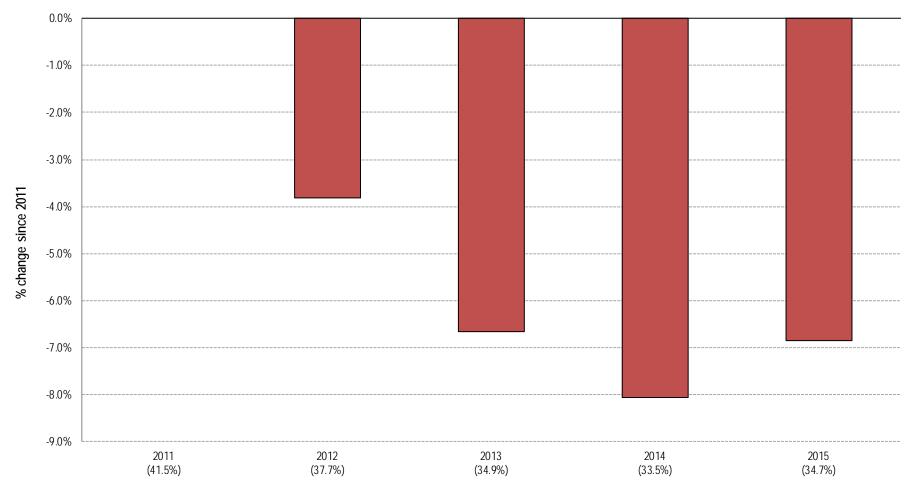


Year (proportion of total possible FIM score)

Over the last five years the FIM admission score has declined, 3% lower in 2015 compared to in 2011.

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FIM change as a proportion of total possible compared **(aroc**) to five years ago



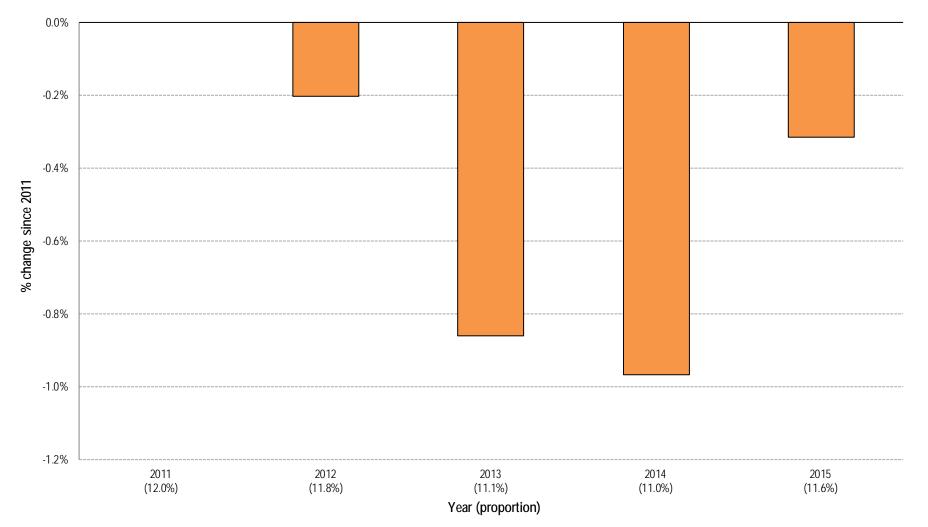
Year (proportion of total possible FIM change)

Change in FIM score possible from admission to discharge has declined annually from 2011 to 2014. In 2015 35% of FIM gain possible was achieved, down from 42% in 2011.

AROC State of Nations - 2015 report - New Zealand

FIM efficiency per week compared to five years ago





Over the last five years weekly FIM efficiency (change in FIM score possible from admission to discharge divided by length of stay x7) has not changed significantly; in 2015 it was marginally lower than it was in 2011.

Outcomes by impairment

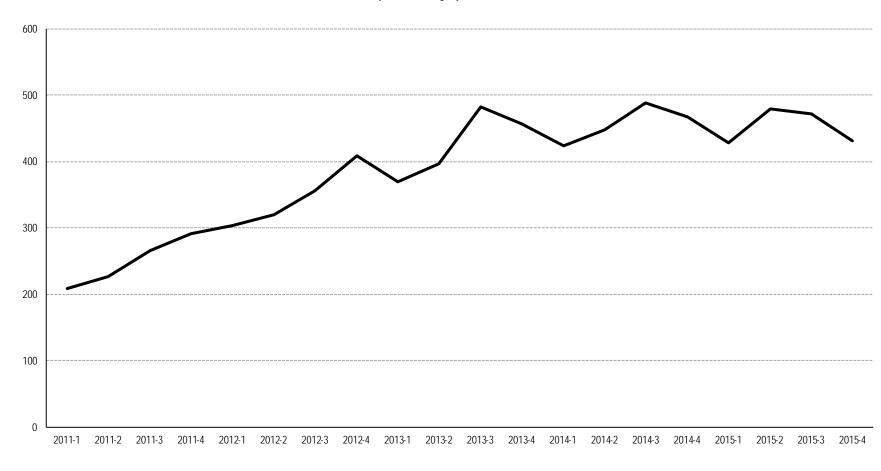


A series of figures and tables are provide for each impairment group; these outline the key descriptive data for this year, changes in episode volumes over the last 5 years, and changes in rehabilitation outcome measures between last year and this year:

- 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 overt he 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 years actual values are presented on the left side of the graph.

Stroke episodes over time

Number of episodes



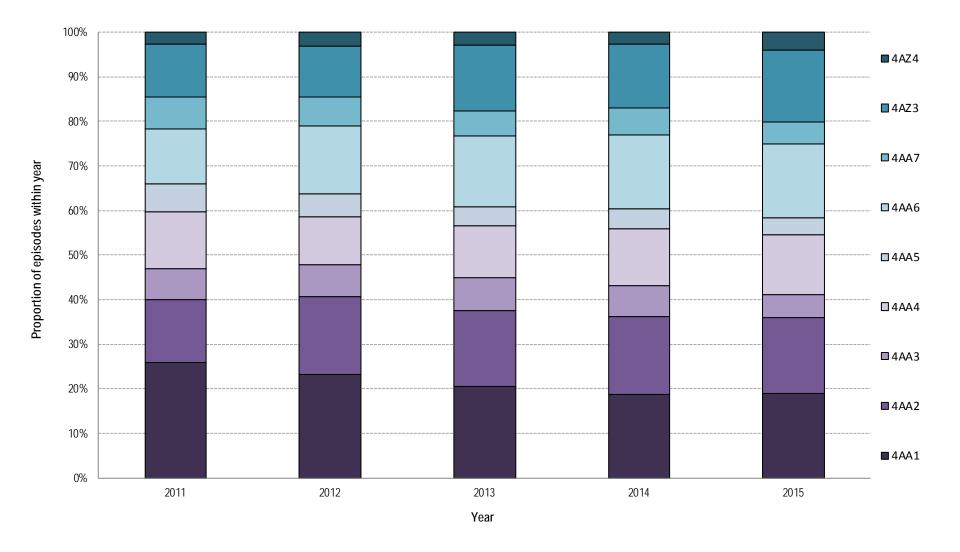
Number of episodes by quarter - Stroke

Year - Quarter

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Stroke casemix over time





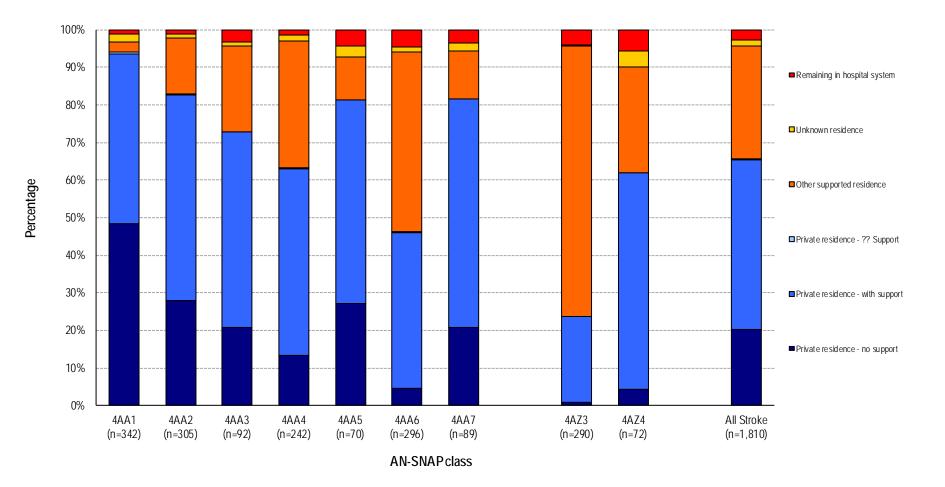
Stroke episodes in 2015

AN-SNAP class:	4AA1	4AA2	4AA3	4AA4	4AA5	4AA6	4AA7	4AZ3	4AZ4	All Stroke
Number of episodes	342	305	92	242	70	296	89	290	72	1,810
Proportion of episodes	18.9%	16.9%	5.1%	13.4%	3.9%	16.4%	4.9%	16.0%	4.0%	100.0%
Gender (%)										
Female	48.2%	48.2%	46.7%	52.1%	48.6%	50.3%	42.7%	53.4%	36.1%	49.2%
Male	51.8%	51.8%	53.3%	47.9%	51.4%	49.7%	57.3%	46.6%	63.9%	50.8%
Age group (%)										
Under 65	33.9%	22.0%	19.6%	0.0%	84.3%	0.0%	84.3%	0.0%	100.0%	22.6%
Over 65	65.5%	77.4%	80.4%	100.0%	15.7%	100.0%	15.7%	100.0%	0.0%	76.9%
Age (Mean+95%Cl)	70.2 (68.7-71.8)	74.0 (72.5-75.6)	73.7 (70.8-76.6)	81.7 (80.8-82.6)	55.6 (53.6-57.6)	81.0 (80.2-81.8)	55.4 (53.2-57.7)	81.6 (80.8-82.5)	56.4 (54.8-58.0)	74.4 (73.7-75.0)
Admission FIM (Mean+95%CI)	101.0 (99.8-102.2)	88.8 (87.6-90.0)	75.7 (73.5-77.9)	66.1 (64.9-67.4)	67.3 (65.0-69.6)	46.8 (45.6-48.0)	47.7 (45.7-49.7)	28.3 (27.3-29.3)	29.6 (27.9-31.3)	66.6 (65.3-67.9)
LOS (Mean+95%Cl)	12.6 (11.8-13.5)	16.2 (15.0-17.5)	20.8 (18.6-23.0)	24.9 (21.4-28.4)	32.6 (27.6-37.6)	35.2 (32.9-37.5)	49.0 (42.4-55.7)	37.5 (34.8-40.1)	65.1 (57.5-72.8)	27.3 (26.2-28.4)
Discharge destination (%)										
Discharged to community	98.8%	99.0%	96.7%	98.8%	95.7%	95.5%	96.6%	95.9%	94.4%	97.4%
Remaining in hospital system	1.2%	1.0%	3.3%	1.3%	4.3%	4.5%	3.4%	4.1%	5.6%	2.6%
FIM change (Mean+95%Cl)	13.7 (12.6-14.9)	15.8 (14.5-17.2)	19.6 (16.9-22.2)	23.4 (21.3-25.5)	35.9 (32.6-39.1)	26.3 (23.8-28.8)	44.1 (39.7-48.6)	20.1 (17.3-22.9)	40.3 (34.4-46.1)	22.2 (21.3-23.1)
FIM efficiency (FIM change/LOS)	1.1	1.0	0.9	0.9	1.1	0.7	0.9	0.5	0.6	0.8

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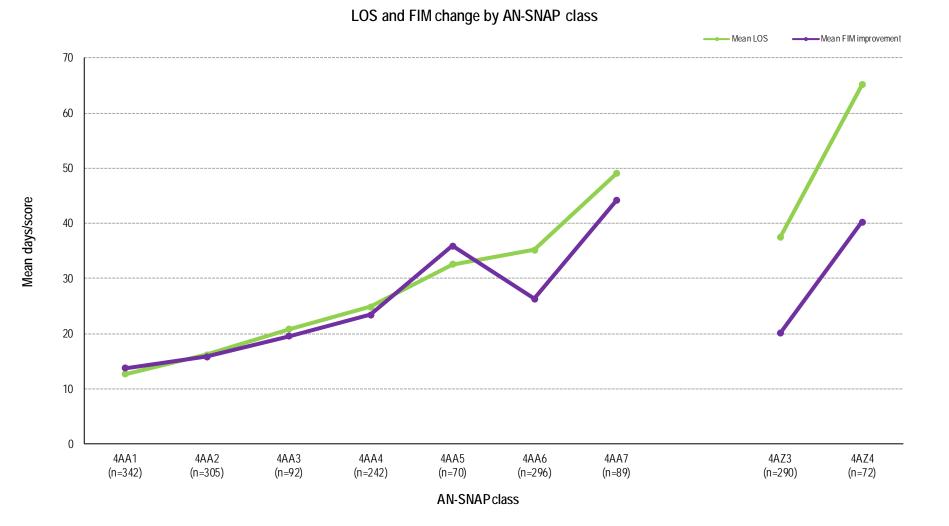
Stroke discharge destination by AN-SNAP class

Discharge destination - Stroke



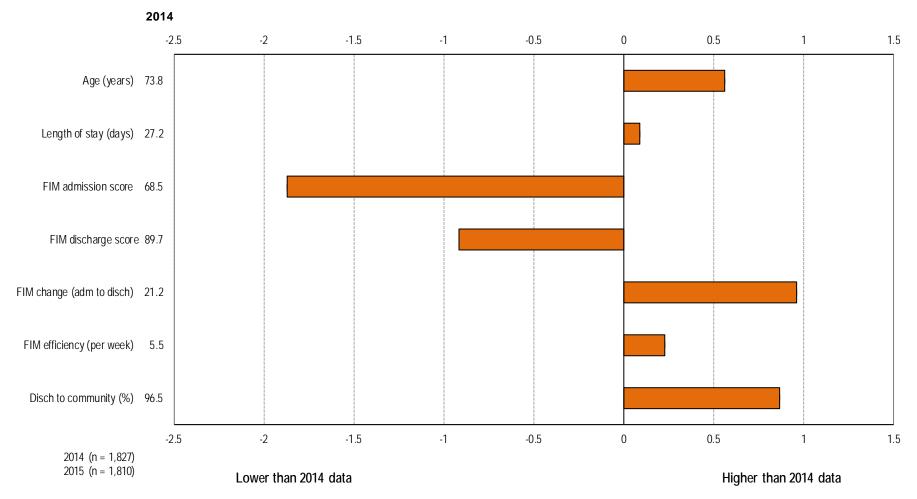


Stroke LOS and FIM change by AN-SNAP class



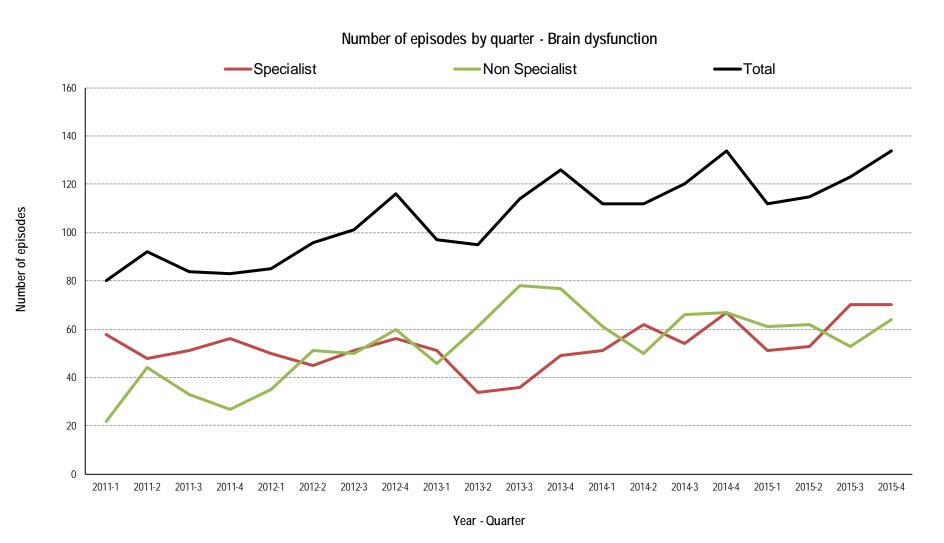
Change in outcome measures in stroke, 2014 to 2015





Difference from 2014 data - All Stroke

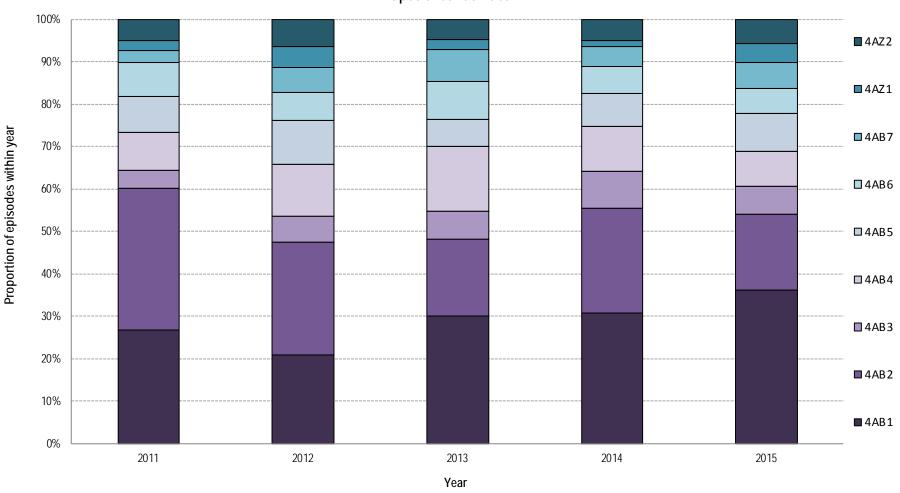
Brain dysfunction episodes over time



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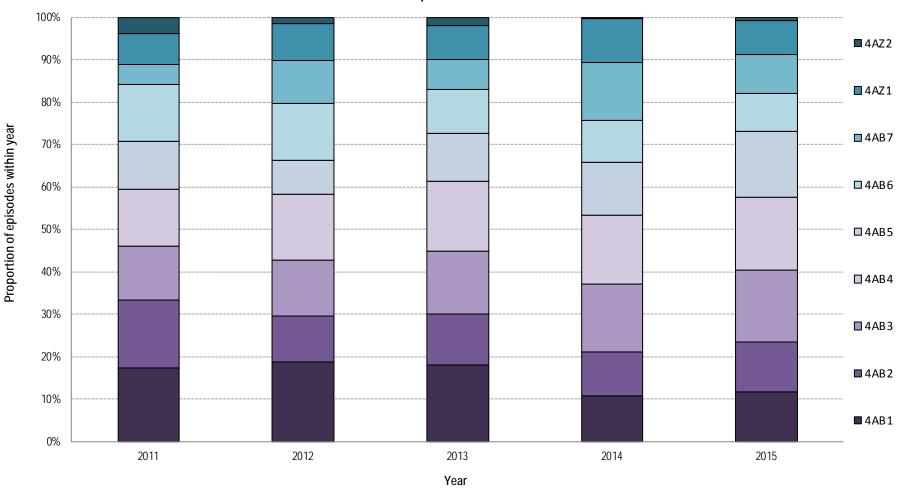
Brain dysfunction casemix over time – Specialist facilities



Specialist Facilities



Brain dysfunction casemix over time – Non specialist facilities



Non Specialist Facilities



Brain dysfunction episodes in 2015 -Specialist facilities

AN-SNAP class:	4AB1	4AB2	4AB3	4 A B4	4 A B5	4 A B6	4AB7	4AZ1	4AZ2	All Brain dysfunction
Number of episodes	88	44	16	20	22	14	15	11	14	244
Proportion of episodes	36.1%	18.0%	6.6%	8.2%	9.0%	5.7%	6.1%	4.5%	5.7%	100.0%
Gender (%)										
Female	36.4%	25.0%	56.3%	25.0%	31.8%	28.6%	26.7%	36.4%	50.0%	34.0%
Male	63.6%	75.0%	43.8%	75.0%	68.2%	71.4%	73.3%	63.6%	50.0%	66.0%
Age group (%)										
Under 65	86.4%	75.0%	75.0%	85.0%	63.6%	42.9%	66.7%	54.5%	100.0%	77.0%
Over 65	13.6%	25.0%	25.0%	15.0%	36.4%	57.1%	33.3%	45.5%	0.0%	23.0%
Age (Mean+95%Cl)	42.6 (38.5-46.7)	46.4 (40.8-52.0)	50.9 (43.1-58.8)	44.5 (35.8-53.1)	53.0 (44.6-61.3)	65.1 (59.0-71.2)	51.1 (40.9-61.3)	64.6 (58.0-71.3)	28.1 (24.0-32.2)	46.9 (44.4-49.4)
Admission FIM (Mean+95%CI)	110.4 (108.6-112.1)	00.4 (97.5-103.3)	86.7 (82.9-90.5)	76.7 (71.5-81.8)	66.3 (62.4-70.2)	47.8 (42.1-53.4)	35.7 (31.8-39.6)	20.8 (19.2-22.4)	22.3 (18.6-26.0)	84.2 (80.1-88.3)
LOS (Mean+95%Cl)	13.5 (11.7-15.2)	27.1 (18.4-35.8)	20.9 (14.9-26.9)	25.5 (18.3-32.8)	29.6 (22.8-36.3)	60.0 (29.7-90.3)	59.9 (40.4-79.3)	78.8 (52.0-105.6)	05.3 (56.9-153.7)	31.2 (26.5-35.9)
Discharge destination (%)										
Discharged to community	100.0%	95.6%	94.1%	87.0%	80.8%	85.7%	100.0%	66.7%	71.4%	91.4%
Remaining in hospital systen	n 0.0%	4.4%	5.9%	13.0%	19.2%	14.3%	0.0%	33.3%	28.6%	8.6%
FIM change (Mean+95%CI)	11.2 (9.6-12.7)	18.2 (14.7-21.6)	28.9 (23.4-34.5)	37.6 (30.9-44.3)	46.8 (41.7-51.9)	52.9 (40.1-65.8)	63.1 (48.9-77.4)	56.3 (32.1-80.5)	67.9 (45.7-90.1)	29.1 (25.8-32.4)
FIM efficiency (FIM change/LOS)	0.8	0.7	1.4	1.5	1.6	0.9	1.1	0.7	0.6	0.9



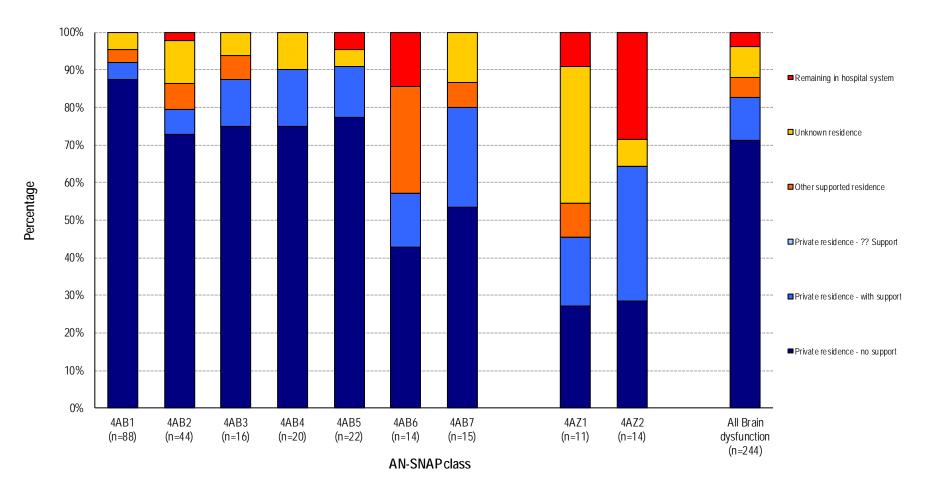
Brain dysfunction episodes in 2015 -Non specialist facilities

AN-SNAP class:	4 A B1	4AB2	4AB3	4AB4	4AB5	4 A B6	4AB7	4AZ1	4AZ2	All Brain dysfunction
Number of episodes	28	28	40	41	37	21	22	19	2	240
Proportion of episodes	11.7%	11.7%	16.7%	17.1%	15.4%	8.8%	9.2%	7.9%	n < 5	100.0%
Gender (%)										
Female	42.9%	46.4%	62.5%	43.9%	59.5%	57.1%	36.4%	68.4%	n < 5	51.3%
Male	57.1%	53.6%	37.5%	56.1%	40.5%	42.9%	63.6%	31.6%	n < 5	48.8%
Age group (%)										
Under 65	32.1%	60.7%	25.0%	29.3%	21.6%	33.3%	31.8%	36.8%	n < 5	33.3%
Over 65	67.9%	39.3%	72.5%	70.7%	78.4%	66.7%	68.2%	63.2%	n < 5	66.3%
Age (Mean+95%CI)	70.4 (65.7-75.1)	59.8 (53.0-66.5)	73.0 (68.0-78.0)	73.9 (69.2-78.5)	75.5 (71.1-79.8)	73.2 (65.6-80.8)	67.6 (61.7-73.4)	72.4 (66.5-78.4)	n < 5	70.9 (68.9-72.9)
Admission FIM (Mean+95%CI)	106.5 (103.9-109.1)	99.7 (96.1-103.4)	86.7 (84.2-89.2)	76.9 (73.9-79.8)	64.7 (61.4-67.9)	51.7 (48.0-55.4)	35.4 (31.6-39.1)	24.8 (21.7-27.9)	n < 5	73.2 (69.7-76.6)
LOS (Mean+95%CI)	10.1 (8.2-12.0)	18.2 (13.2-23.1)	19.8 (13.1-26.6)	20.7 (17.2-24.2)	23.7 (17.3-30.1)	25.5 (18.0-33.0)	38.1 (30.7-45.5)	31.9 (18.4-45.4)	n < 5	22.7 (20.2-25.1)
Discharge destination (%)										
Discharged to community	100.0%	93.1%	97.5%	92.7%	86.5%	91.3%	100.0%	72.2%	n < 5	91.1%
Remaining in hospital system	n 0.0%	6.9%	2.5%	7.3%	13.5%	8.7%	0.0%	27.8%	n < 5	8.9%
FIM change (Mean+95%CI)	8.7 (6.4-10.9)	9.7 (5.7-13.6)	20.0 (16.6-23.4)	19.5 (15.1-24.0)	20.4 (14.1-26.6)	25.5 (17.9-33.0)	34.4 (23.2-45.5)	26.0 (14.3-37.7)	n < 5	20.1 (17.7-22.4)
FIM efficiency (FIM change/LOS)	0.9	0.5	1.0	0.9	0.9	1.0	0.9	0.8	n < 5	0.9

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

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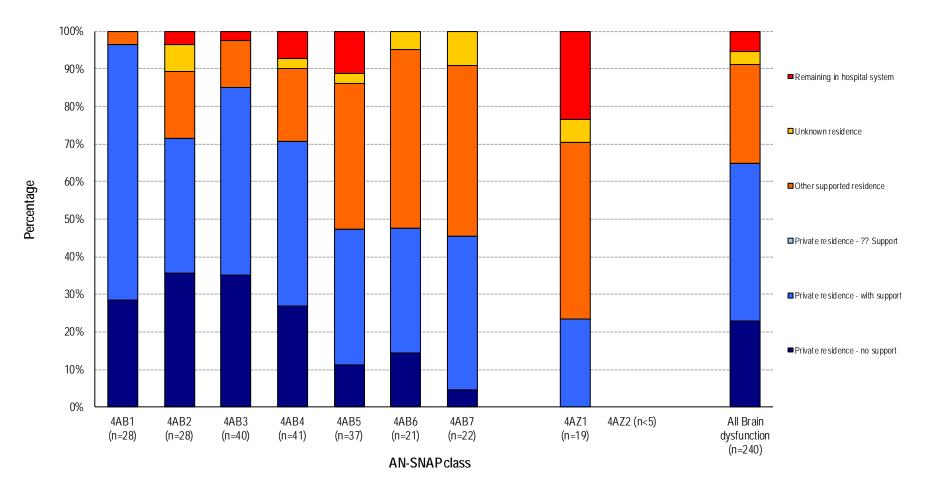
Specialist - Discharge destination - Brain dysfunction



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

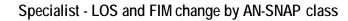
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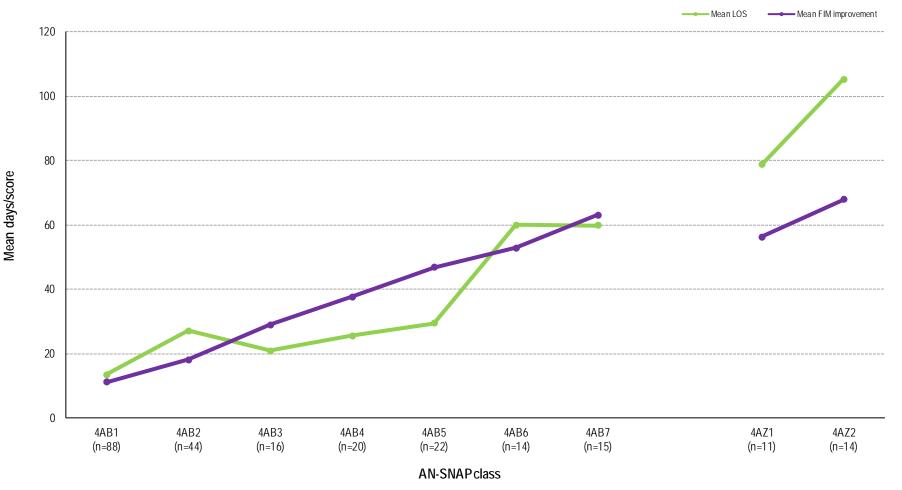
Non specialist - Discharge destination - Brain dysfunction



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

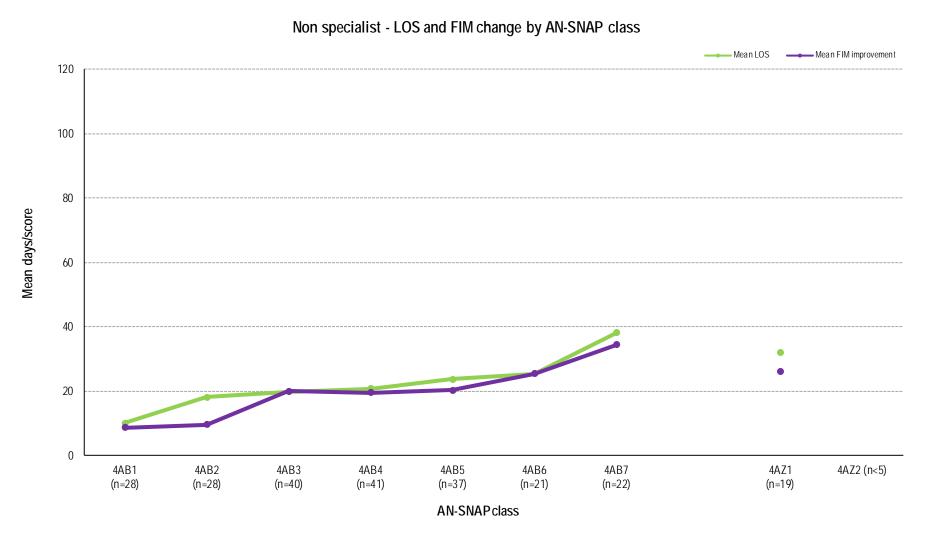




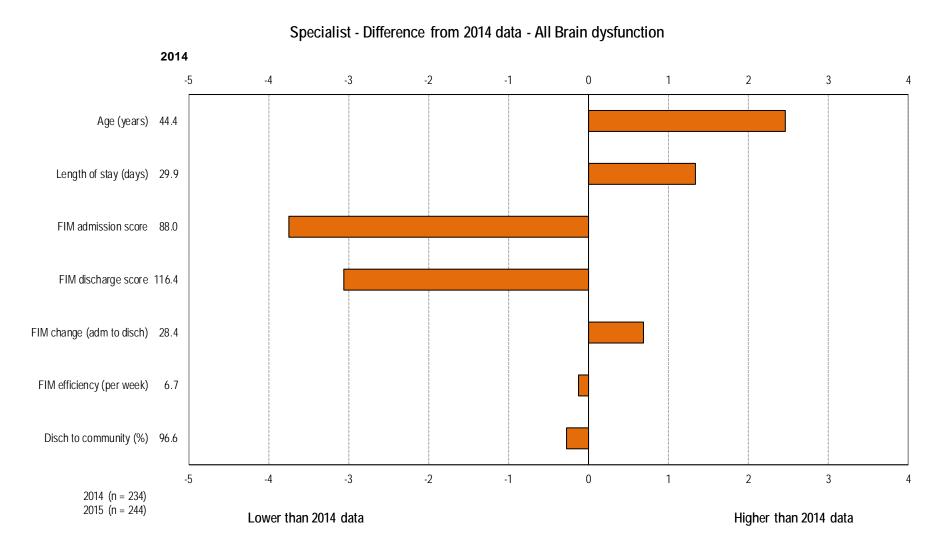


Brain dysfunction LOS and FIM change by AN-SNAP Class – Non specialist facilities

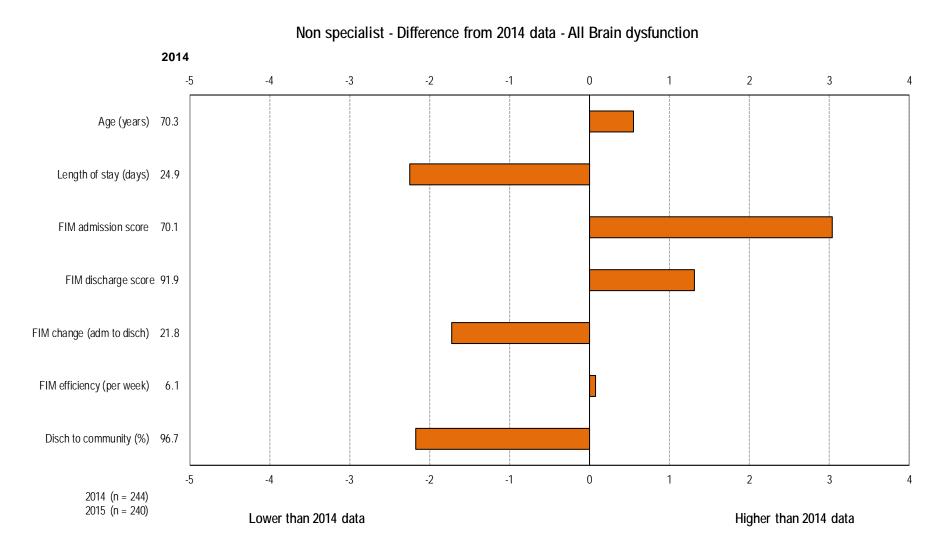




Change in outcome measures in brain dysfunction, 2014 to 2015 - Specialist facilities

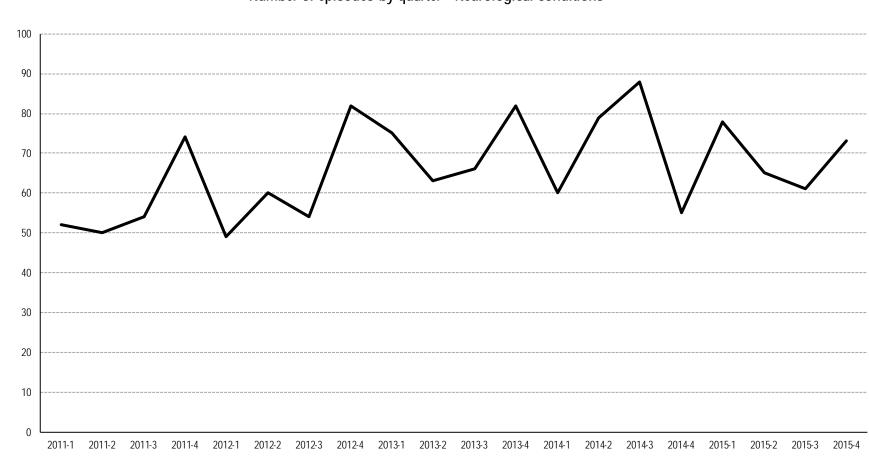


Change in outcome measures in brain dysfunction, 2014 to 2015 - Non specialist facilities



Neurological conditions episodes over time

Number of episodes

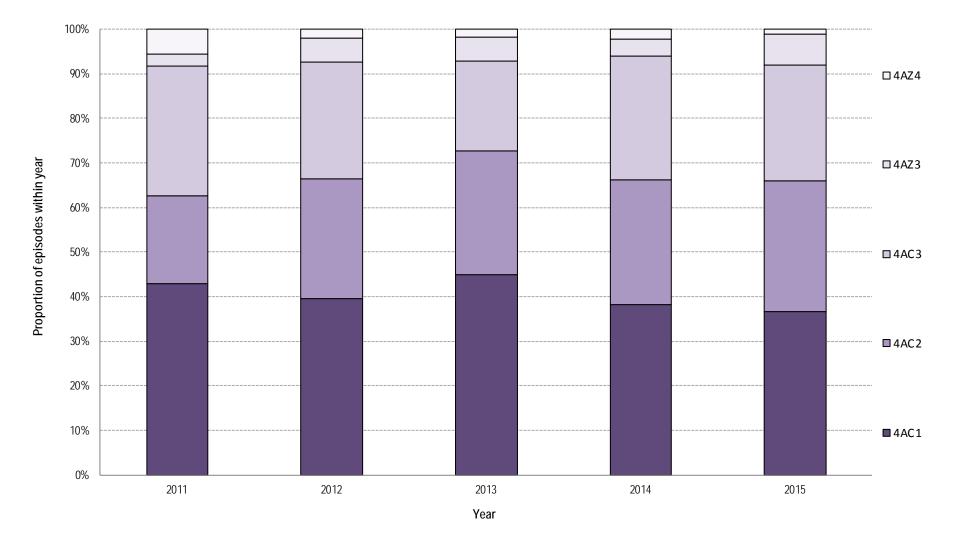


Number of episodes by quarter - Neurological conditions

Year - Quarter

Neurological conditions casemix over time





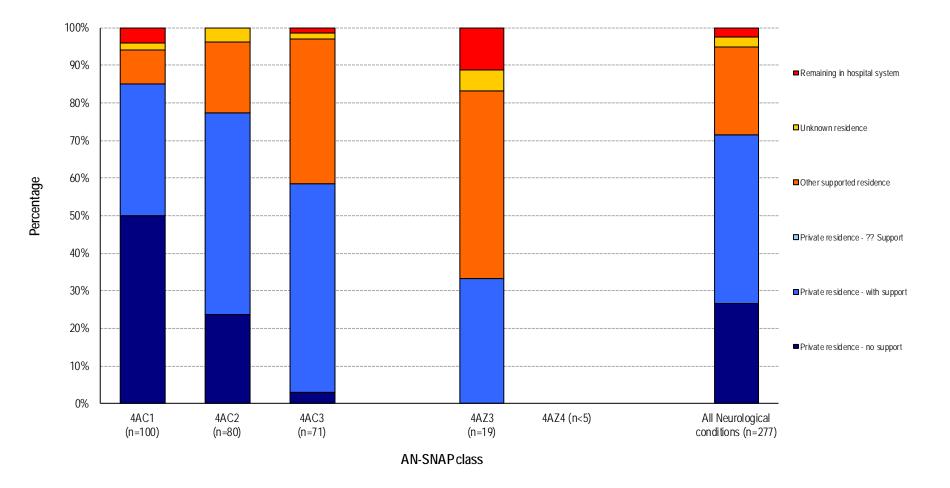
Neurological conditions episodes in 2015

AN-SNAP class:	4AC1	4AC2	4AC3	4 AZ 3	4 AZ 4	All Neurological conditions
Number of episodes	100	80	71	19	3	277
Proportion of episodes	36.1%	28.9%	25.6%	6.9%	n < 5	100.0%
Gender (%)						
Female	43.0%	42.5%	47.9%	42.1%	n < 5	44.4%
Male	57.0%	57.5%	52.1%	57.9%	n < 5	55.6%
Age group (%)						
Under 65	42.0%	22.5%	31.0%	0.0%	n < 5	31.0%
Over 65	58.0%	76.3%	69.0%	100.0%	n < 5	68.2%
Age (Mean+95%Cl)	63.0 (59.5-66.6)	69.6 (66.3-72.9)	70.6 (67.4-73.7)	79.6 (76.4-82.9)	n < 5	68.0 (66.1-69.9)
Admission FIM (Mean+95%CI)	101.4 (99.1-103.7)	76.9 (74.7-79.2)	55.5 (52.6-58.3)	30.4 (25.4-35.4)	n < 5	77.0 (74.0-80.0)
LOS (Mean+95%Cl)	14.9 (12.6-17.2)	20.3 (16.9-23.6)	29.9 (25.2-34.6)	32.1 (17.1-47.2)	n < 5	21.7 (19.5-23.8)
Discharge destination (%)						
Discharged to community	96.0%	100.0%	98.6%	88.9%	n < 5	97.5%
Remaining in hospital system	4.0%	0.0%	1.4%	11.1%	n < 5	2.5%
FIM change (Mean+95%Cl)	9.0 (6.6-11.3)	14.1 (10.9-17.4)	21.9 (16.7-27.0)	22.9 (11.5-34.2)	n < 5	14.6 (12.5-16.7)
FIM efficiency (FIM change/LOS)	0.6	0.7	0.7	0.7	n < 5	0.7

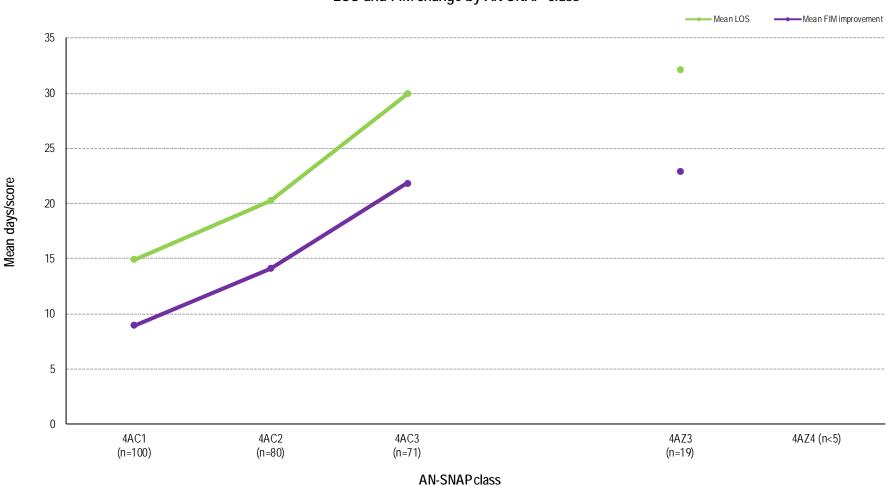


Neurological conditions discharge destination by AN-SNAP class

Discharge destination - Neurological conditions



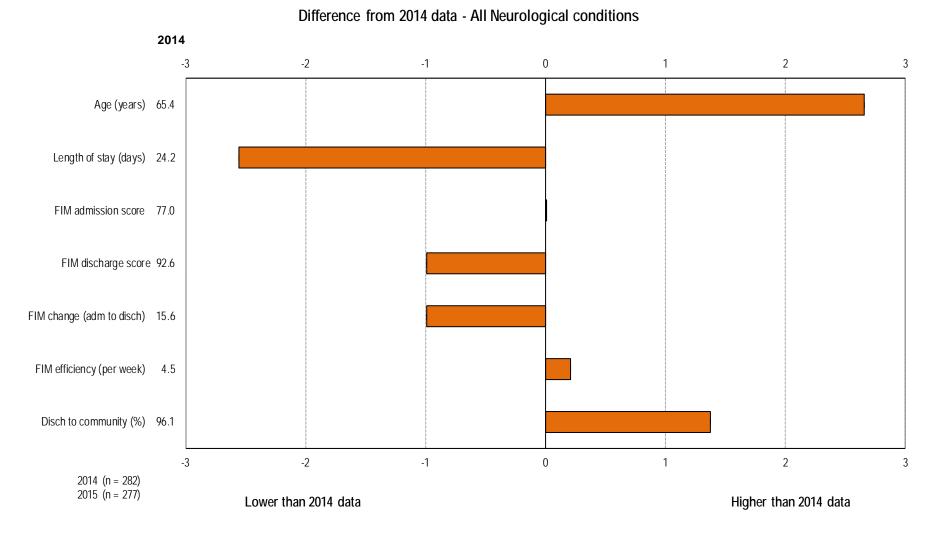
Neurological conditions LOS and FIM change by AN-SNAP class



LOS and FIM change by AN-SNAP class

Change in outcome measures in neurological conditions, 2014 to 2015

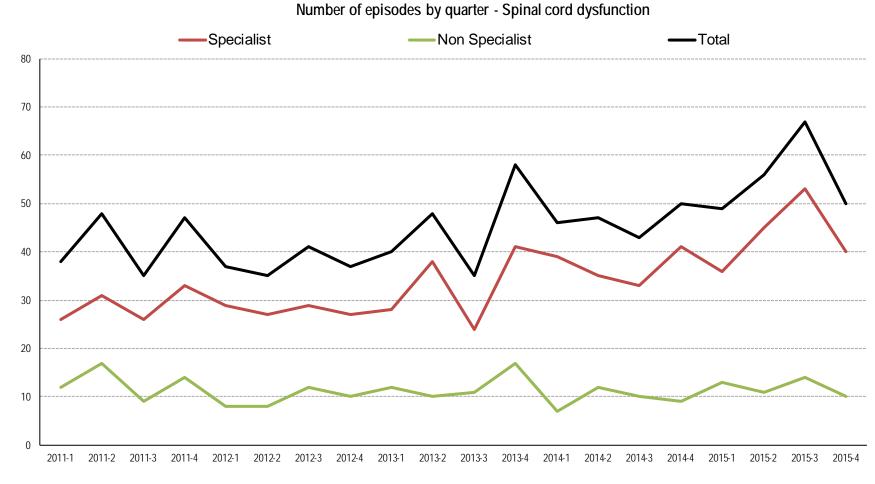




Spinal cord dysfunction episodes over time

Number of episodes

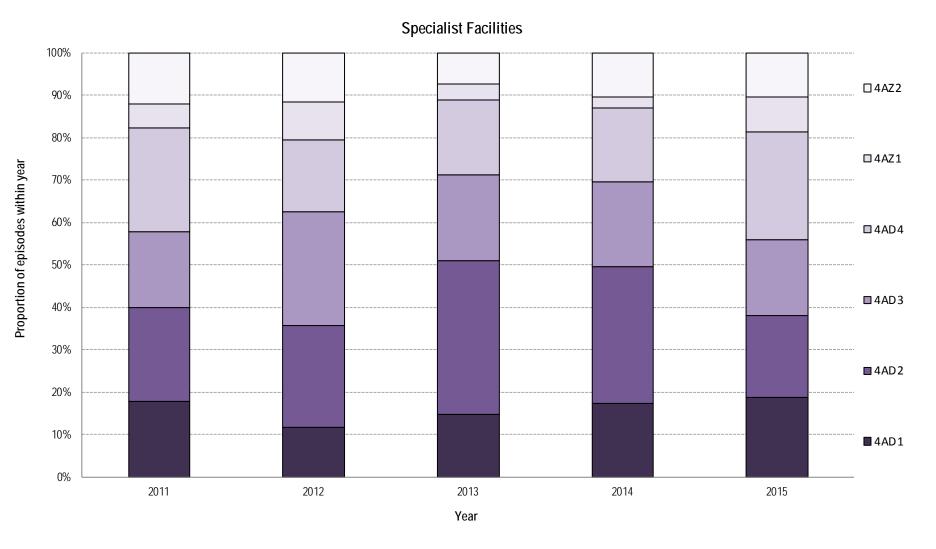




Year - Quarter

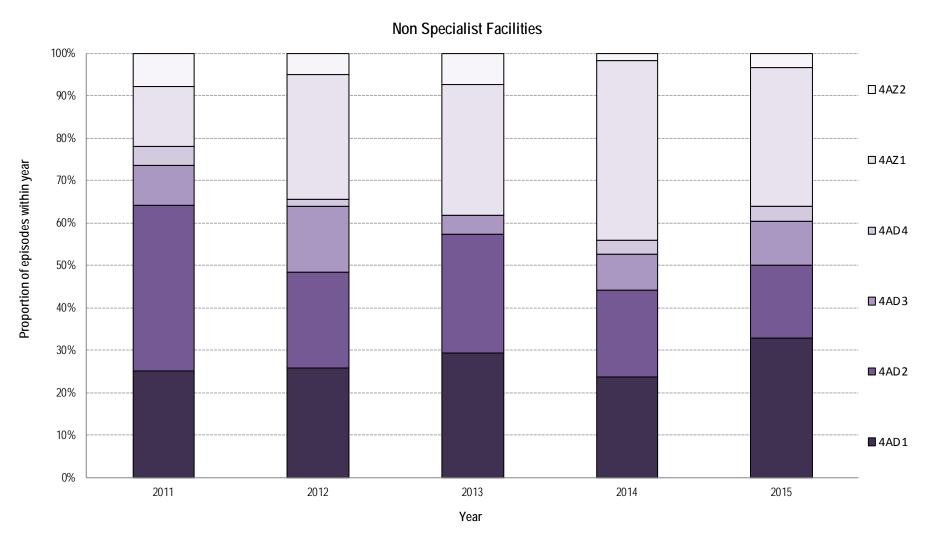
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Spinal cord dysfunction casemix over time – Specialist facilities



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Spinal cord dysfunction episodes over time – Non specialist facilities



Spinal cord dysfunction episodes in 2015 -Specialist facilities

AN-SNAP class:	4AD1	4AD2	4AD3	4AD4	4AZ1	4 AZ 2	All Spinal cord dysfunction
Number of episodes	25	26	24	34	29		174
Proportion of episodes	14.4%	14.9%	13.8%	19.5%	16.7%	16.1%	100.0%
Gender (%)							
Female	20.0%	42.3%	41.7%	41.2%	17.2%	14.3%	28.2%
Male	80.0%	57.7%	58.3%	58.8%	82.8%	85.7%	71.8%
Age group (%)							
Under 65	64.0%	50.0%	100.0%	100.0%	51.7%	100.0%	74.7%
Over 65	36.0%	50.0%	0.0%	0.0%	48.3%	0.0%	20.7%
Age (Mean+95%Cl)	60.7 (57.4-63.9)	65.5 (61.6-69.4)	31.8 (27.9-35.8)	33.9 (30.6-37.3)	64.3 (60.6-68.1)	34.3 (30.0-38.6)	48.0 (45.2-50.7)
Admission FIM (Mean+95%CI)	94.5 (88.8-100.3)	60.4 (57.6-63.1)	89.7 (84.0-95.4)	58.1 (56.0-60.3)	42.4 (39.3-45.4)	43.0 (40.1-45.8)	63.1 (59.8-66.4)
LOS (Mean+95%Cl)	27.5 (20.0-35.0)	41.7 (36.1-47.3)	29.2 (21.2-37.1)	74.1 (60.9-87.3)	91.8 (75.2-108.4)	103.4 (82.6-124.1)	63.6 (56.6-70.6)
Discharge destination (%)							
Discharged to community	100.0%	96.3%	100.0%	97.1%	93.3%	100.0%	97.7%
Remaining in hospital system	0.0%	3.7%	0.0%	2.9%	6.7%	0.0%	2.3%
FIM change (Mean+95%Cl)	16.1 (10.7-21.5)	30.2 (23.0-37.4)	27.2 (21.7-32.6)	41.1 (35.1-47.0)	24.3 (15.3-33.2)	22.9 (13.7-32.0)	27.4 (24.3-30.5)
FIM efficiency (FIM change/LOS)	0.6	0.7	0.9	0.6	0.3	0.2	0.4



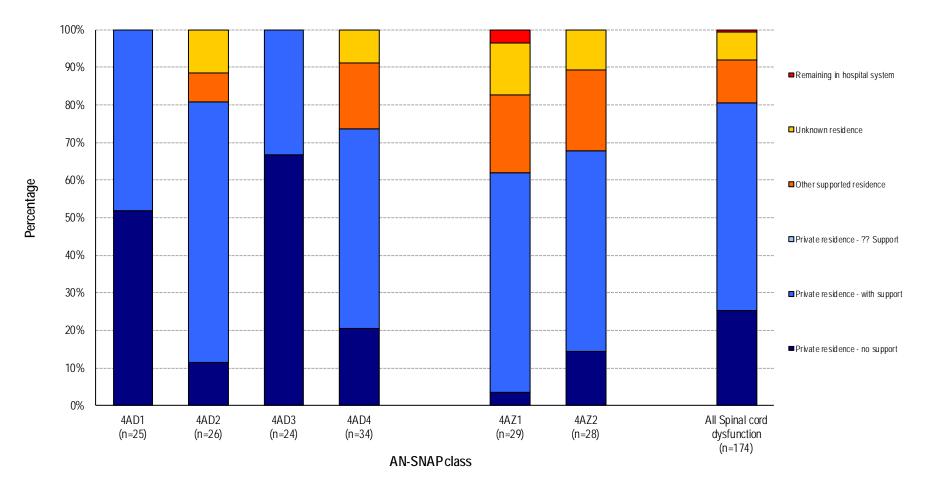
Spinal cord dysfunction episodes in 2015 -Non specialist facilities

							All Spinal cord
AN-SNAP class:	4AD1	4AD2	4AD3	4AD4	4AZ1	4AZ2	dysfunction
Number of episodes	19	10	6	2	9	2	48
Proportion of episodes	39.6%	20.8%	12.5%	n < 5	18.8%	n < 5	100.0%
Gender (%)							
Female	31.6%	40.0%	50.0%	n < 5	44.4%	n < 5	39.6%
Male	68.4%	60.0%	50.0%	n < 5	55.6%	n < 5	60.4%
Age group (%)							
Under 65	47.4%	60.0%	100.0%	n < 5	11.1%	n < 5	54.2%
Over 65	52.6%	40.0%	0.0%	n < 5	88.9%	n < 5	45.8%
Age (Mean+95%CI)	65.6 (60.9-70.3)	67.3 (60.9-73.7)	37.7 (32.4-43.0)	n < 5	74.1 (66.3-81.9)	n < 5	61.2 (56.3-66.0)
Admission FIM (Mean+95%CI)	92.2 (85.1-99.2)	59.8 (51.1-68.5)	94.8 (82.4-107.3)	n < 5	42.5 (35.5-49.5)	n < 5	74.3 (67.0-81.5)
LOS (Mean+95%Cl)	15.4 (9.9-21.0)	41.0 (23.8-58.2)	24.7 (16.0-33.3)	n < 5	41.1 (25.5-56.7)	n < 5	28.2 (21.6-34.8)
Discharge destination (%)							
Discharged to community	100.0%	90.0%	100.0%	n < 5	80.0%	n < 5	91.8%
Remaining in hospital system	0.0%	10.0%	0.0%	n < 5	20.0%	n < 5	8.2%
FIM change (Mean+95%Cl)	14.7 (10.3-19.1)	30.7 (16.7-44.6)	22.2 (10.0-34.3)	n < 5	23.9 (9.6-38.2)	n < 5	20.3 (15.6-25.0)
FIM efficiency (FIM change/LOS)	1.0	0.7	0.9	n < 5	0.6	n < 5	0.7



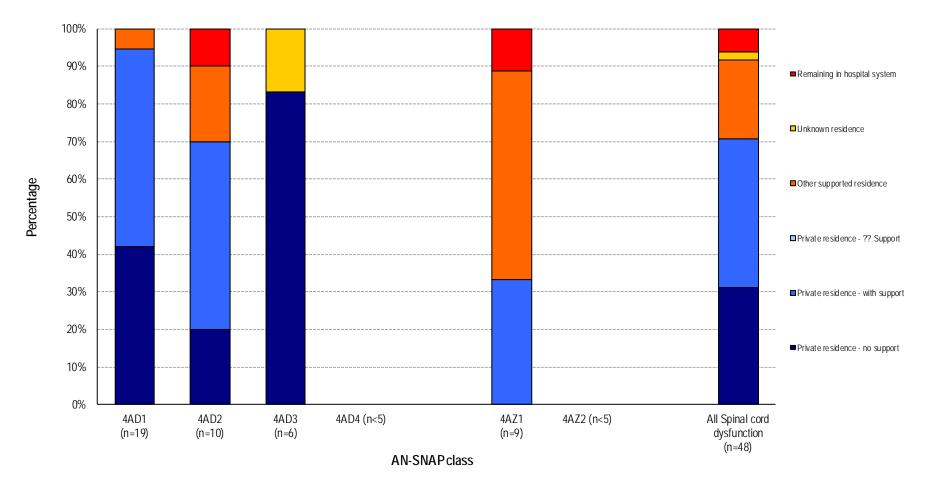
Spinal cord dysfunction discharge destination by AN-SNAP class – Specialist facilities

Specialist - Discharge destination - Spinal cord dysfunction



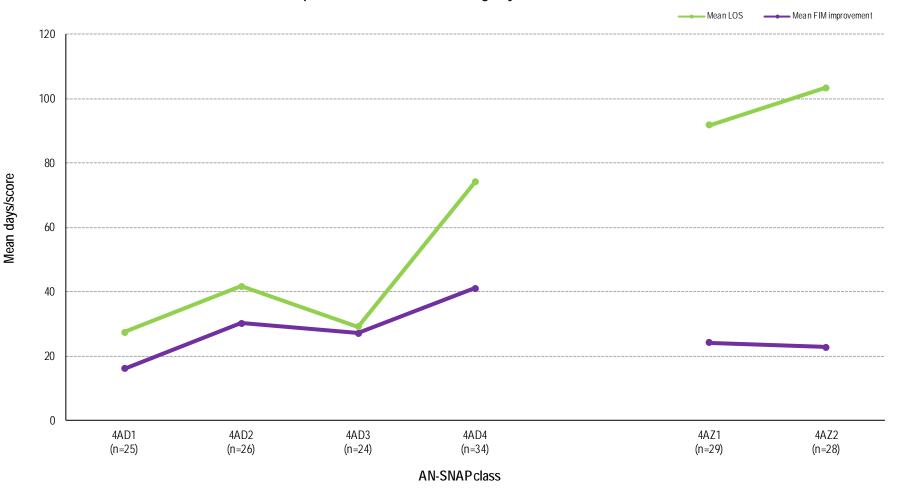
Spinal cord dysfunction discharge destination by AN-SNAP class – Non specialist facilities

Non specialist - Discharge destination - Spinal cord dysfunction

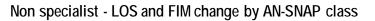


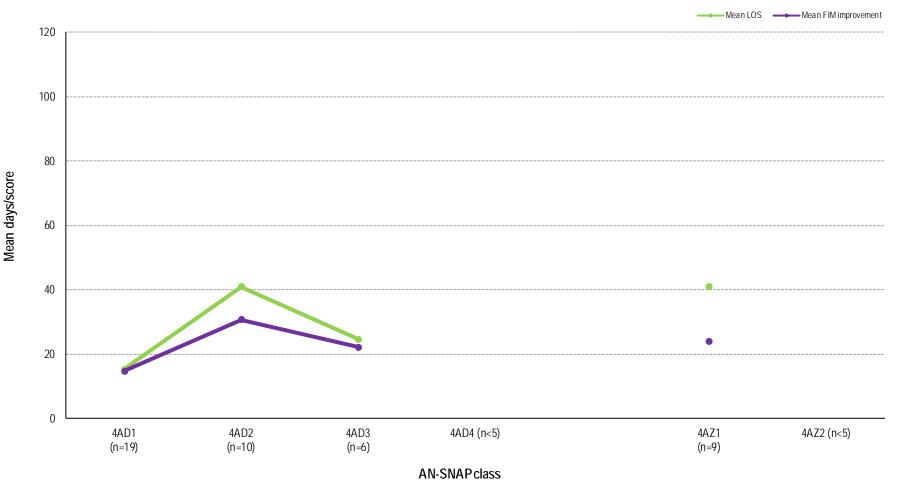
Spinal cord dysfunction LOS and FIM change by AN-SNAP class – Specialist facilities



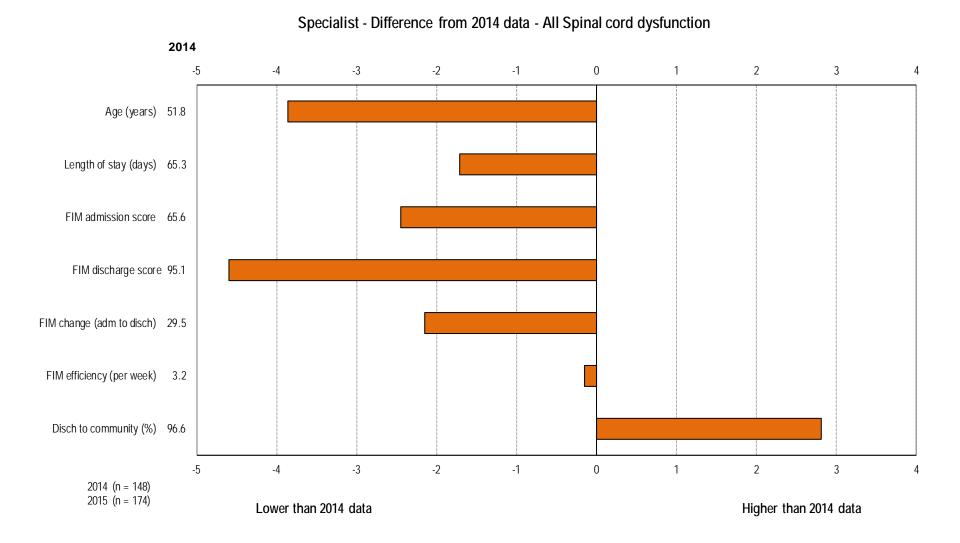


Spinal cord dysfunction LOS and FIM change by AN-SNAP class – Non specialist facilities

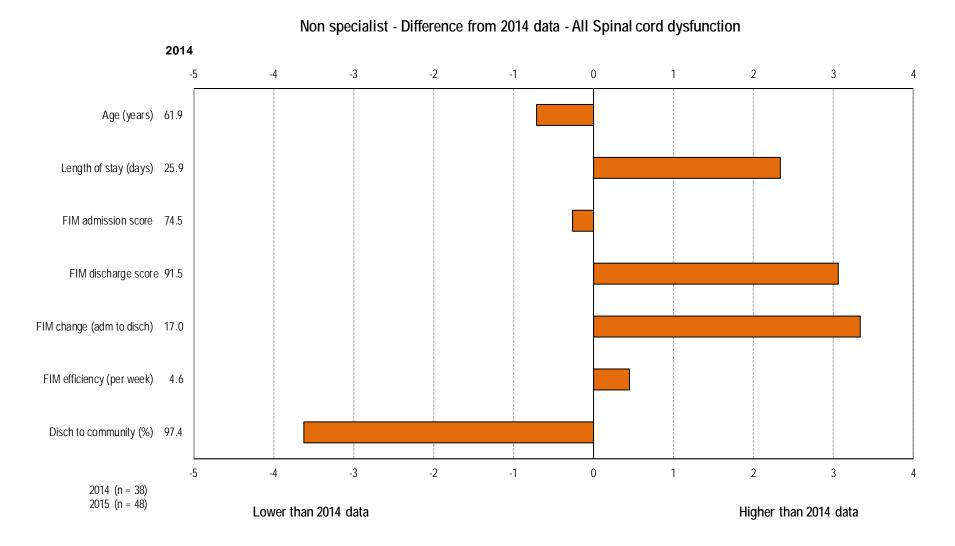




Change in outcome measures in spinal cord dysfunction, 2014 to 2015 - Specialist facilities

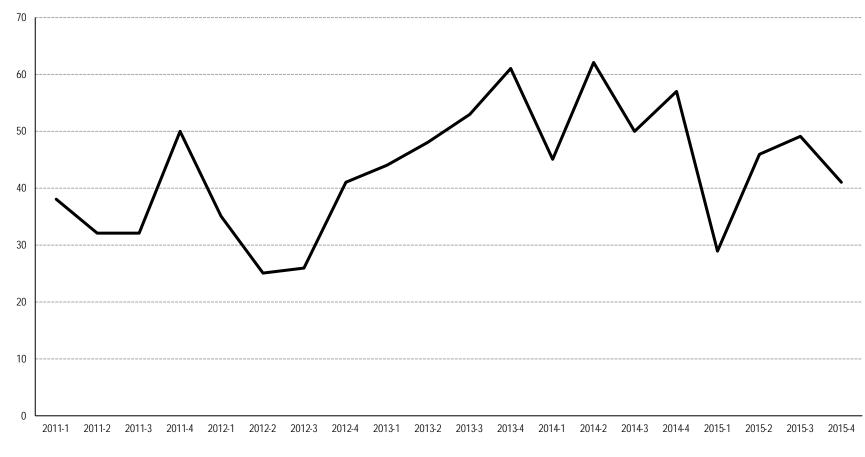


Change in outcome measures in spinal cord dysfunction, 2014 to 2015 - Non specialist facilities



Amputation episodes over time

Number of episodes



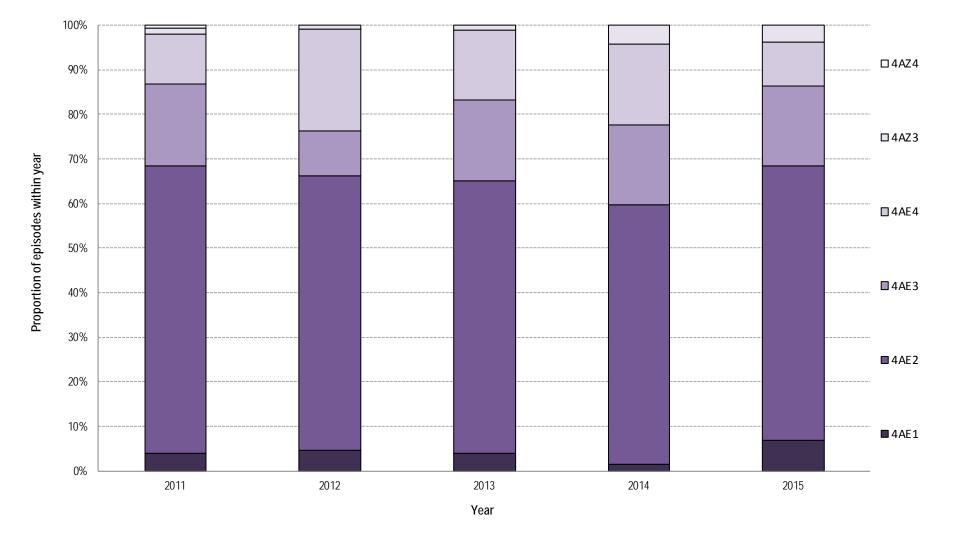
Number of episodes by quarter - Amputation of limb

Year - Quarter

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Amputation casemix over time





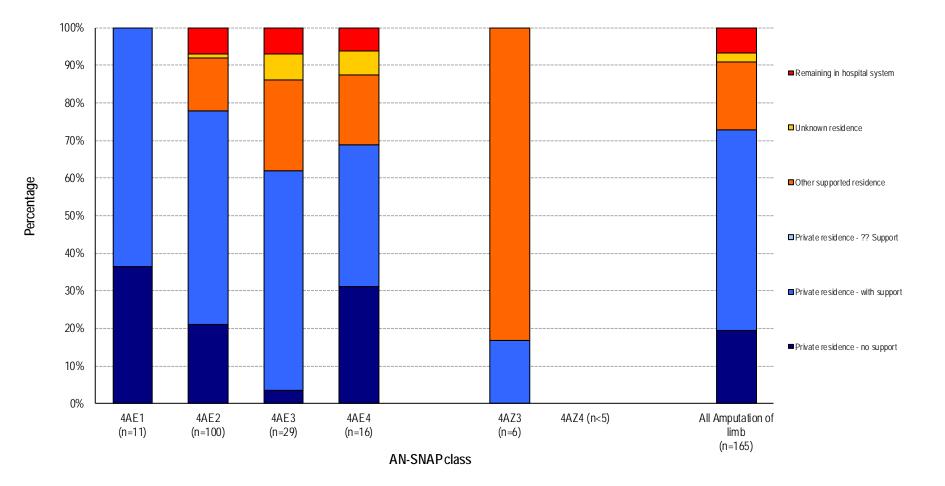
Amputation episodes in 2015



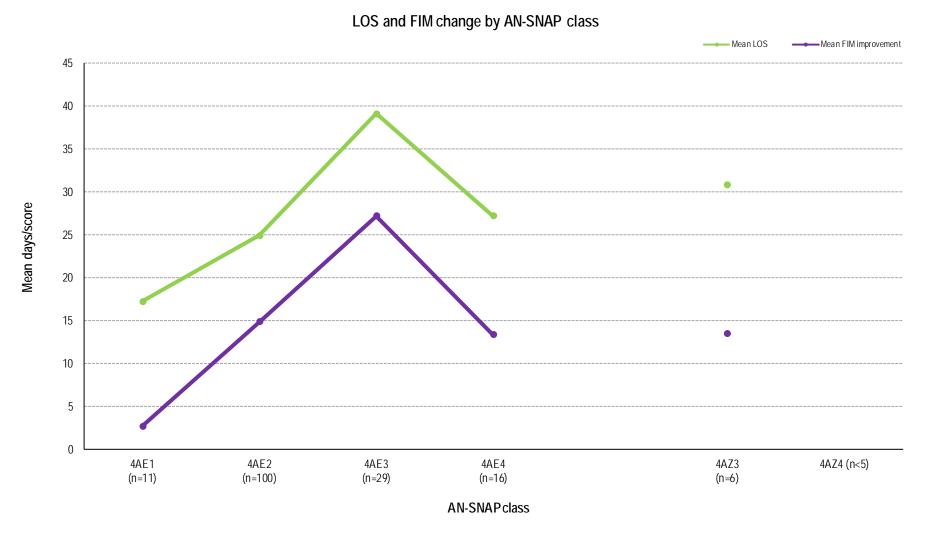
							All Amputation
AN-SNAP class:	4AE1	4AE2	4AE3	4AE4	4AZ3	4AZ4	of limb
Number of episodes	11	100	29	16	6	0	165
Proportion of episodes	6.7%	60.6%	17.6%	9.7%	3.6%	n < 5	100.0%
Gender (%)							
Female	9.1%	46.0%	24.1%	25.0%	50.0%	n < 5	37.6%
Male	90.9%	54.0%	75.9%	75.0%	50.0%	n < 5	62.4%
Age group (%)							
Under 65	45.5%	24.0%	6.9%	100.0%	0.0%	n < 5	29.7%
Over 65	54.5%	76.0%	93.1%	0.0%	100.0%	n < 5	70.3%
Age (Mean+95%Cl)	66.5 (60.8-72.1)	72.8 (70.7-74.8)	76.0 (73.2-78.7)	43.7 (40.6-46.7)	80.7 (75.8-85.5)	n < 5	70.1 (68.1-72.1)
Admission FIM (Mean+95%CI)	113.2 (110.3-116.1)	85.9 (82.8-89.1)	52.8 (49.3-56.2)	88.7 (78.5-99.0)	37.3 (31.4-43.3)	n < 5	80.3 (76.7-84.0)
LOS (Mean+95%Cl)	17.3 (9.9-24.6)	24.9 (21.7-28.2)	39.1 (32.0-46.2)	27.2 (14.8-39.6)	30.8 (27.4-34.2)	n < 5	27.3 (24.5-30.2)
Discharge destination (%)							
Discharged to community	100.0%	93.0%	93.1%	93.8%	100.0%	n < 5	93.3%
Remaining in hospital system	0.0%	7.0%	6.9%	6.3%	0.0%	n < 5	6.7%
FIM change (Mean+95%Cl)	2.7 (0.1-5.3)	14.9 (12.8-17.0)	27.2 (21.4-32.9)	13.4 (5.7-21.0)	13.5 (3.4-23.6)	n < 5	16.0 (14.0-18.1)
FIM efficiency (FIM change/LOS)	0.2	0.6	0.7	0.5	0.4	n < 5	0.6

Amputation discharge destination by AN-SNAP class

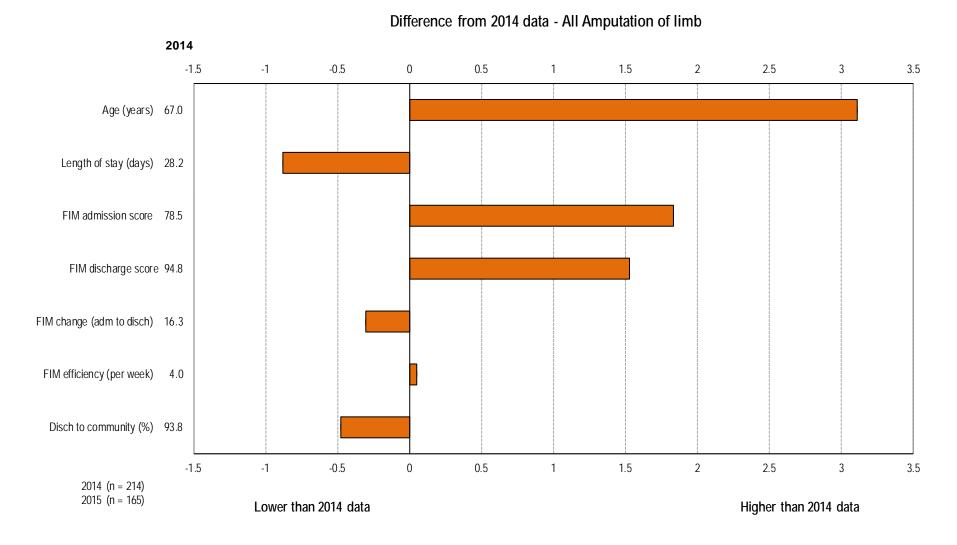
Discharge destination - Amputation of limb



Amputation LOS and FIM change by AN-SNAP class



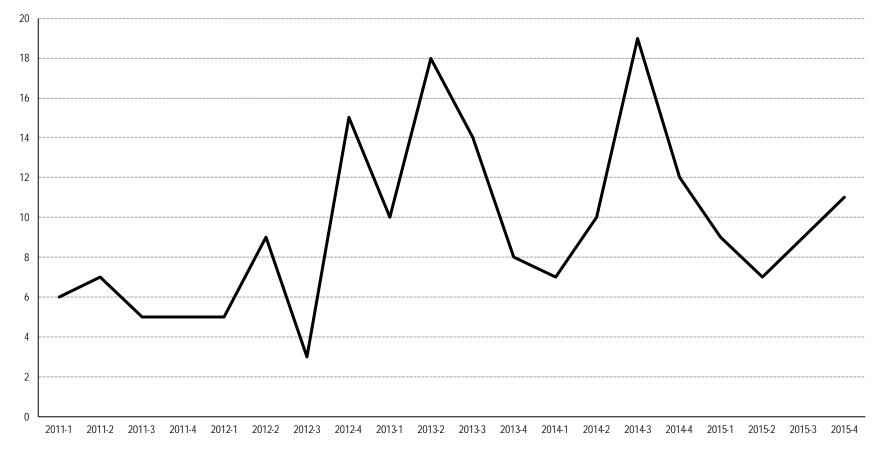
Change in outcome measures in amputation, 2014 to 2015





Arthritis episodes over time

Number of episodes

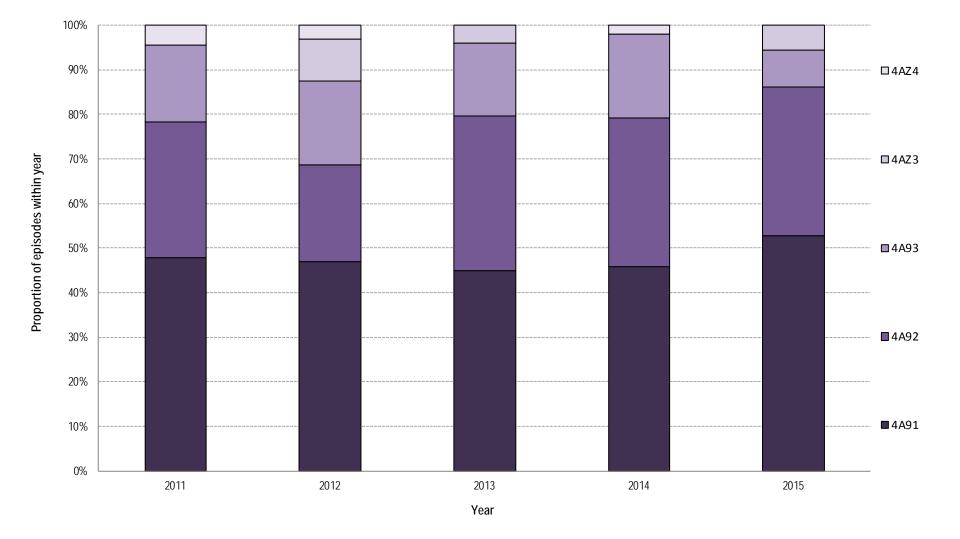


Number of episodes by quarter - Arthritis

Year - Quarter

Arthritis casemix over time





Arthritis episodes in 2015

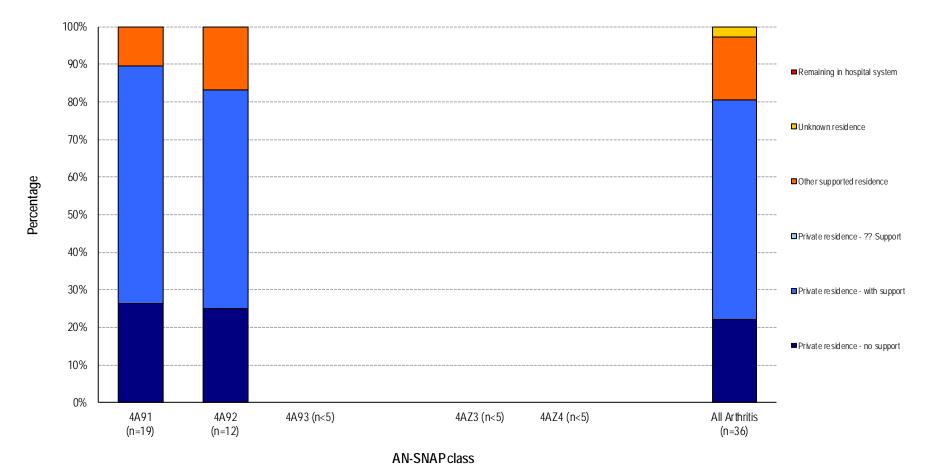
2	roc

AN-SNAP class:	4A91	4A92	4A93	4AZ3	4AZ4	All Arthritis
Number of episodes	19	12	3	2	0	36
Proportion of episodes	52.8%	33.3%	n < 5	n < 5	n < 5	100.0%
Gender (%)						
Female	57.9%	75.0%	n < 5	n < 5	n < 5	69.4%
Male	42.1%	25.0%	n < 5	n < 5	n < 5	30.6%
Age group (%)						
Under 65	10.5%	8.3%	n < 5	n < 5	n < 5	8.3%
Over 65	89.5%	91.7%	n < 5	n < 5	n < 5	91.7%
Age (Mean+95%Cl)	76.4 (71.7-81.0)	75.8 (69.8-81.7)	n < 5	n < 5	n < 5	78.3 (74.7-82.0)
Admission FIM (Mean+95%CI)	98.8 (93.4-104.3)	73.9 (68.1-79.8)	n < 5	n < 5	n < 5	82.9 (75.5-90.4)
LOS (Mean+95%Cl)	13.1 (9.8-16.4)	20.8 (15.2-26.4)	n < 5	n < 5	n < 5	16.5 (13.6-19.4)
Discharge destination (%)						
Discharged to community	100.0%	100.0%	n < 5	n < 5	n < 5	100.0%
Remaining in hospital system	0.0%	0.0%	n < 5	n < 5	n < 5	0.0%
FIM change (Mean+95%Cl)	10.7 (7.8-13.5)	27.2 (21.0-33.4)	n < 5	n < 5	n < 5	16.1 (11.9-20.3)
FIM efficiency (FIM change/LOS)	0.8	1.3	n < 5	n < 5	n < 5	1.0



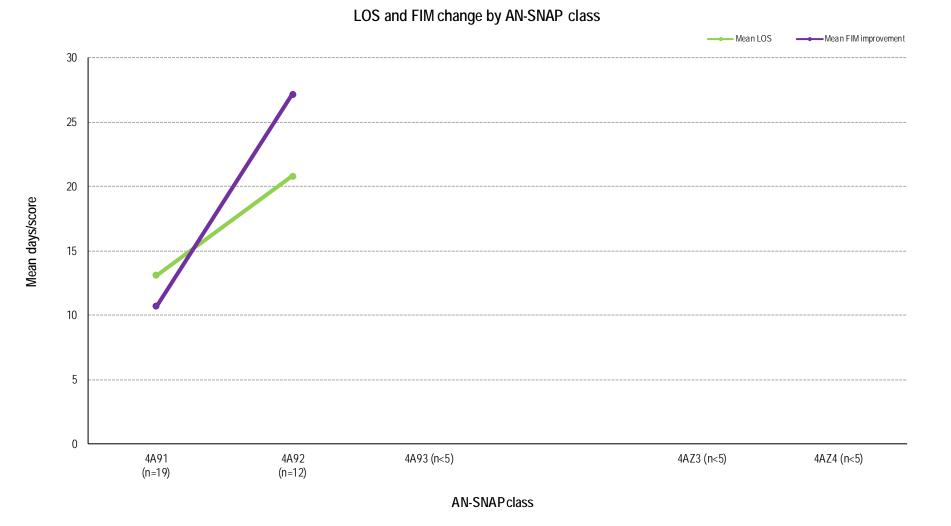
Arthritis discharge destination by AN-SNAP class





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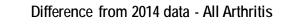
Arthritis LOS and FIM change by AN-SNAP class

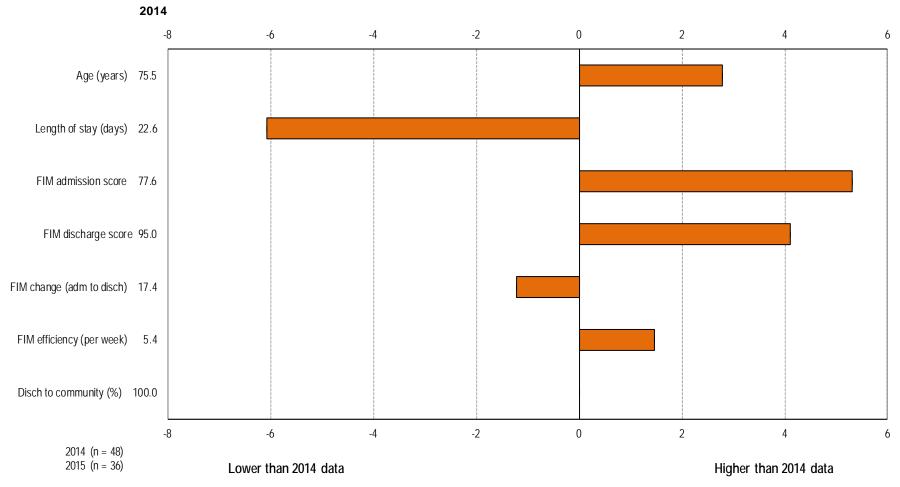


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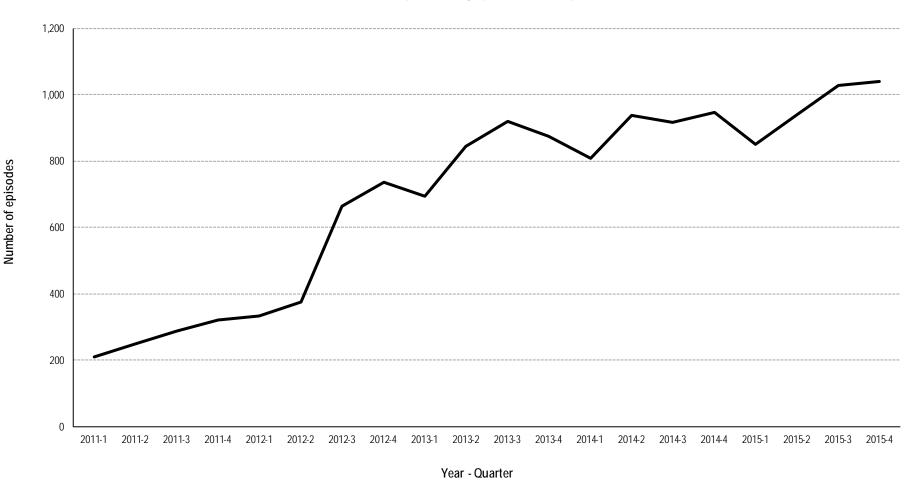
Change in outcome measures in arthritis, 2014 to 2015







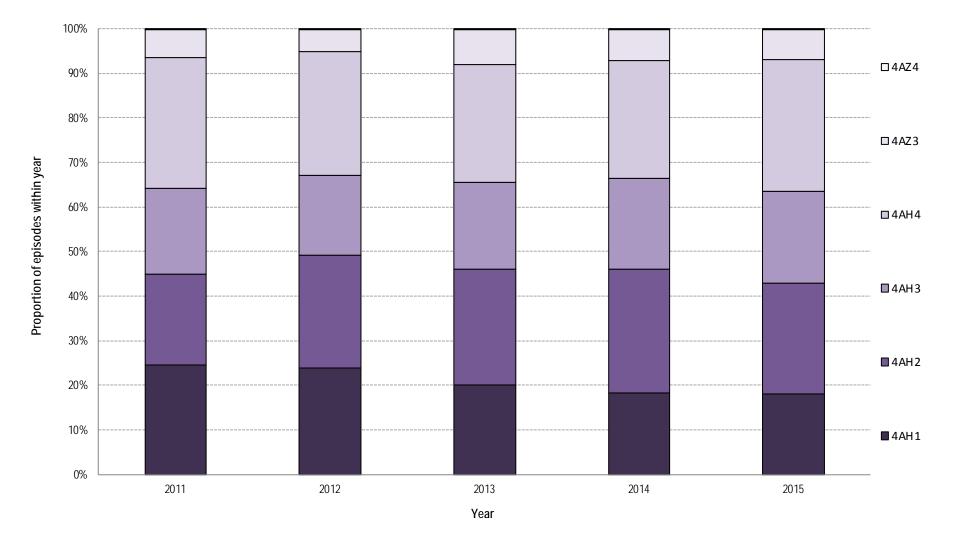
Orthopaedic fracture episodes over time



Number of episodes by quarter - Orthopaedic fractures

Orthopaedic fracture casemix over time





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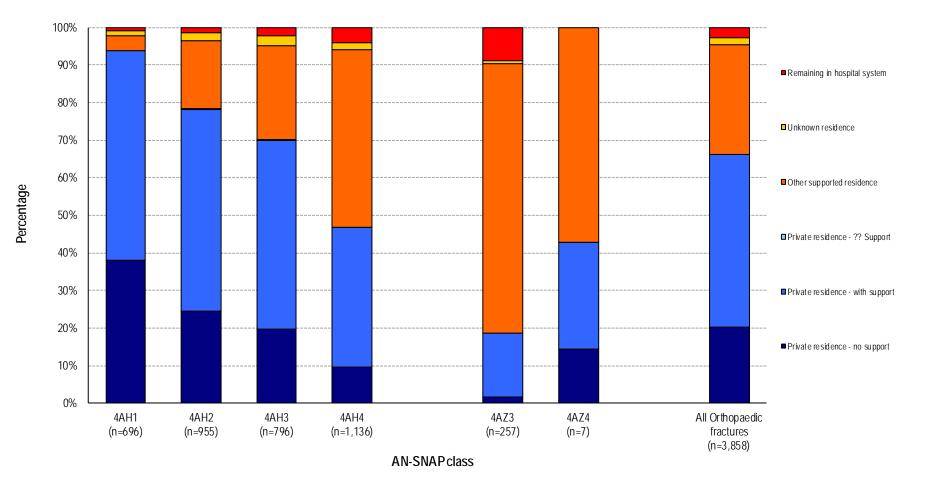
Orthopaedic fracture episodes in 2015

							All Orthopaedic
AN-SNAP class:	4AH1	4AH2	4AH3	4AH4	4AZ3	4AZ4	fractures
Number of episodes	696	955	796	1,136	257	7	3,858
Proportion of episodes	18.0%	24.8%	20.6%	29.4%	6.7%	0.2%	100.0%
Gender (%)							
Female	76.6%	74.2%	72.9%	71.9%	73.5%	71.4%	73.7%
Male	23.3%	25.8%	27.1%	28.1%	26.5%	28.6%	26.3%
Age group (%)							
Under 65	7.8%	5.0%	2.1%	2.6%	0.0%	100.0%	4.1%
Over 65	91.8%	94.9%	97.5%	96.9%	100.0%	0.0%	95.6%
Age (Mean+95%Cl)	78.9 (78.1-79.7)	82.2 (81.6-82.7)	83.5 (82.9-84.1)	84.3 (83.8-84.8)	86.2 (85.3-87.0)	60.6 (57.3-63.9)	82.7 (82.4-83.0)
Admission FIM (Mean+95%CI)	96.2 (95.5-96.8)	84.2 (83.6-84.9)	69.4 (68.8-70.0)	51.3 (50.6-51.9)	29.3 (28.2-30.4)	29.0 (21.6-36.4)	70.5 (69.8-71.2)
LOS (Mean+95%Cl)	13.6 (12.8-14.3)	16.4 (15.3-17.4)	20.2 (19.3-21.1)	23.3 (22.5-24.2)	22.1 (20.5-23.8)	39.7 (20.2-59.2)	19.1 (18.6-19.5)
Discharge destination (%)							
Discharged to community	99.1%	98.5%	97.8%	96.0%	91.1%	100.0%	97.3%
Remaining in hospital system	0.9%	1.5%	2.2%	4.0%	8.9%	0.0%	2.7%
FIM change (Mean+95%Cl)	14.2 (13.6-14.8)	14.6 (13.9-15.2)	23.0 (22.1-23.8)	25.6 (24.6-26.6)	18.3 (15.6-21.0)	30.3 (11.2-49.4)	19.7 (19.2-20.2)
FIM efficiency (FIM change/LOS)	1.0	0.9	1.1	1.1	0.8	0.8	1.0



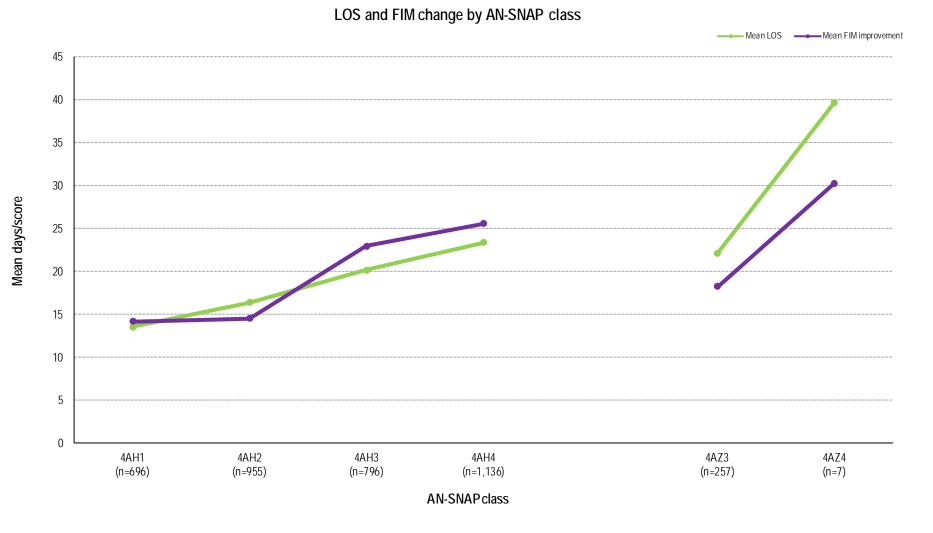
Orthopaedic fracture discharge destination by AN-SNAP class

Discharge destination - Orthopaedic fractures

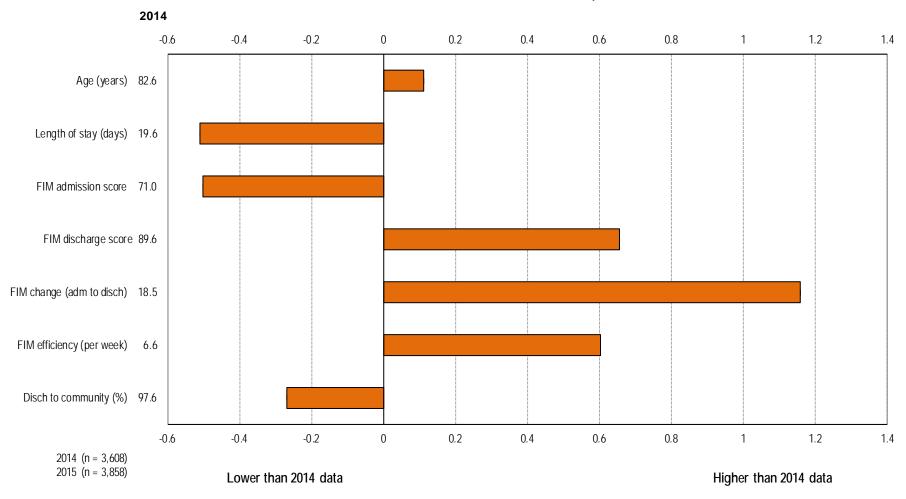




Orthopaedic fracture LOS and FIM change by AN-SNAP class



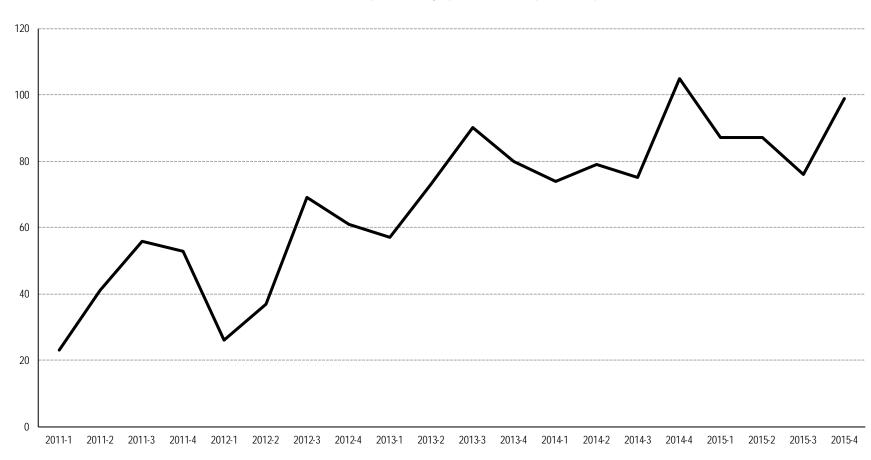
Change in outcome measures in orthopaedic fracture, 2014 to 2015



Difference from 2014 data - All Orthopaedic fractures

Orthopaedic replacement episodes over time

Number of episodes



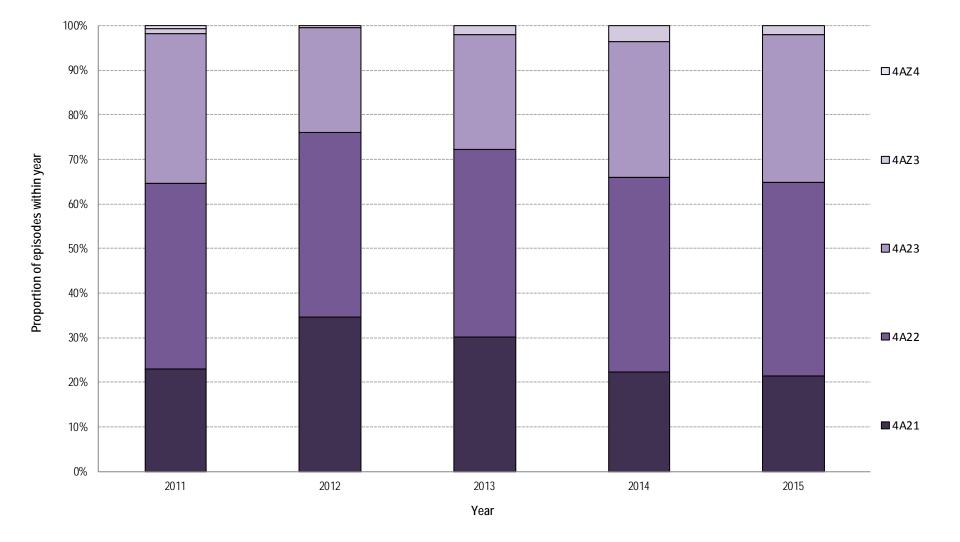
Number of episodes by quarter - Orthopaedic replacements

Year - Quarter

73

Orthopaedic replacement casemix over time





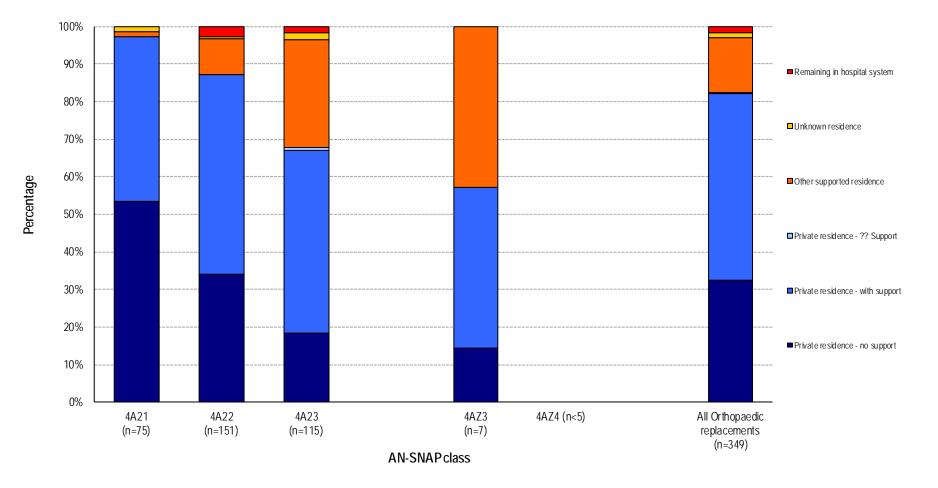
Orthopaedic replacement episodes in 2015

						All Orthopaedic
AN-SNAP class:	4A21	4A22	4A23	4AZ3	4AZ4	replacements
Number of episodes	75	151	115	7	0	349
Proportion of episodes	21.5%	43.3%	33.0%	2.0%	n < 5	100.0%
Gender (%)						
Female	68.0%	62.3%	69.6%	71.4%	n < 5	66.2%
Male	32.0%	37.7%	30.4%	28.6%	n < 5	33.8%
Age group (%)						
Under 65	5.3%	5.3%	7.0%	0.0%	n < 5	5.7%
Over 65	94.7%	94.7%	93.0%	100.0%	n < 5	94.3%
Age (Mean+95%Cl)	79.1 (77.4-80.9)	79.3 (78.0-80.6)	79.1 (77.3-80.9)	81.9 (74.8-88.9)	n < 5	79.3 (78.4-80.2)
Admission FIM (Mean+95%CI)	104.4 (103.0-105.8)	87.0 (85.7-88.3)	62.6 (60.1-65.1)	37.0 (32.1-41.9)	n < 5	81.7 (79.6-83.8)
LOS (Mean+95%Cl)	9.9 (8.8-11.1)	12.4 (11.4-13.5)	20.5 (18.3-22.8)	30.7 (15.0-46.5)	n < 5	14.9 (13.9-16.0)
Discharge destination (%)						
Discharged to community	100.0%	97.3%	98.3%	100.0%	n < 5	98.3%
Remaining in hospital system	0.0%	2.7%	1.7%	0.0%	n < 5	1.7%
FIM change (Mean+95%CI)	7.4 (6.3-8.5)	16.7 (15.3-18.0)	24.7 (22.2-27.1)	32.6 (8.7-56.4)	n < 5	17.6 (16.3-18.9)
FIM efficiency (FIM change/LOS)	0.7	1.3	1.2	1.1	n < 5	1.2



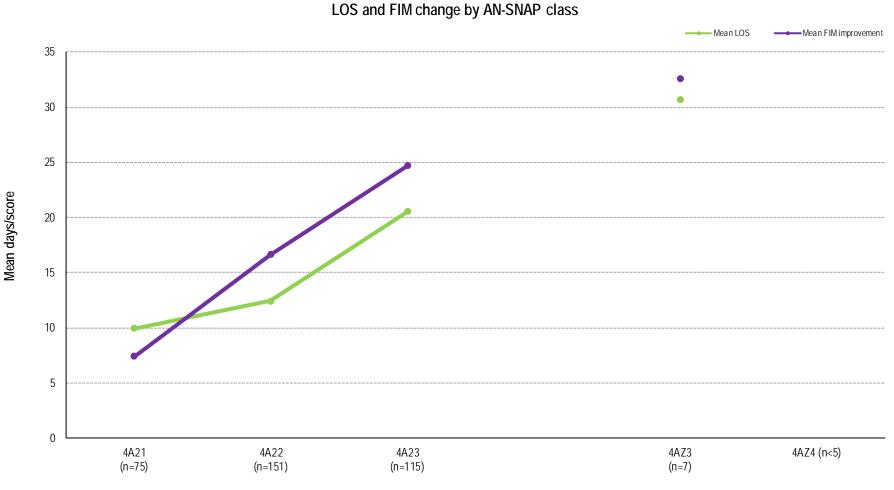
Orthopaedic replacement discharge destination by AN-SNAP class

Discharge destination - Orthopaedic replacements





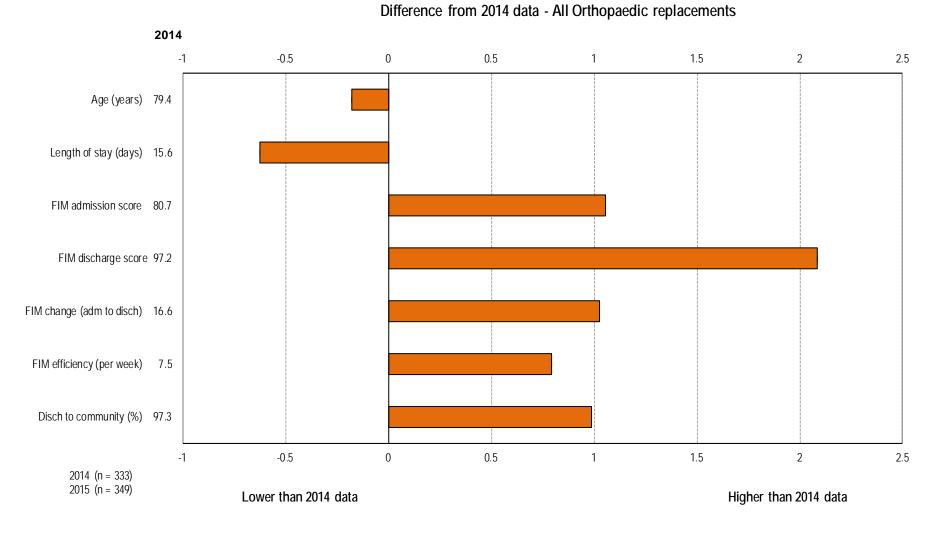
Orthopaedic replacement LOS and FIM change by AN-SNAP class



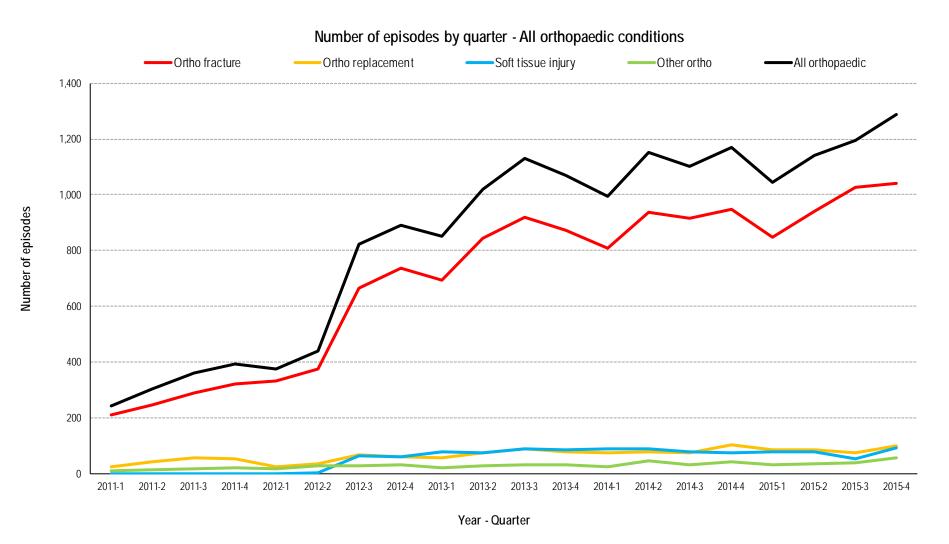
AN-SNAP class



Change in outcome measures in orthopaedic replacement, 2014 to 2015



All orthopaedic episodes over time



All orthopaedic episodes in 2015

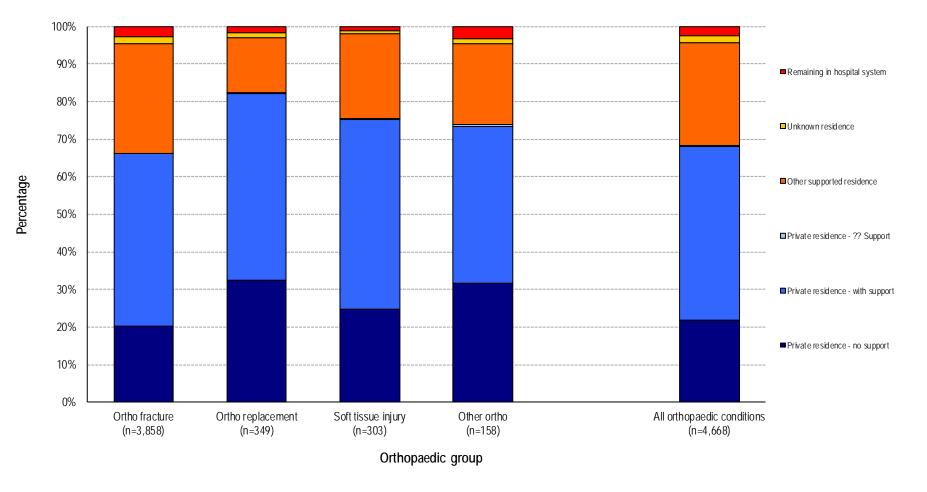


		Ortho	Soft tissue		All orthopaedic
AN-SNAP class:	Ortho fracture	replacement	injury	Other ortho	conditions
Number of episodes	3,858	349	303	158	4,668
Proportion of episodes	82.6%	7.5%	6.5%	3.4%	100.0%
Gender (%)					
Female	73.7%	66.2%	64.0%	51.9%	71.7%
Male	26.3%	33.8%	36.0%	48.1%	28.2%
Age group (%)					
Under 65	4.1%	5.7%	5.0%	22.2%	4.9%
Over 65	95.6%	94.3%	94.4%	77.8%	94.8%
Age (Mean+95%Cl)	82.7 (82.4-83.0)	79.3 (78.4-80.2)	82.1 (81.0-83.3)	74.2 (72.0-76.3)	82.1 (81.8-82.4)
Admission FIM (Mean+95%Cl)	70.5 (69.8-71.2)	81.7 (79.6-83.8)	79.9 (77.5-82.3)	81.8 (78.3-85.3)	72.4 (71.7-73.0)
LOS (Mean+95%Cl)	19.1 (18.6-19.5)	14.9 (13.9-16.0)	16.1 (13.1-19.1)	16.6 (14.8-18.4)	18.5 (18.0-18.9)
Discharge destination (%)					
Discharged to community	97.3%	98.3%	99.0%	96.8%	97.5%
Remaining in hospital system	2.7%	1.7%	1.0%	3.2%	2.5%
FIM change (Mean+95%CI)	19.7 (19.2-20.2)	17.6 (16.3-18.9)	14.0 (12.6-15.4)	16.7 (14.5-18.9)	19.1 (18.6-19.5)
FIM efficiency (FIM change/LOS)	1.0	1.2	0.9	1.0	1.0



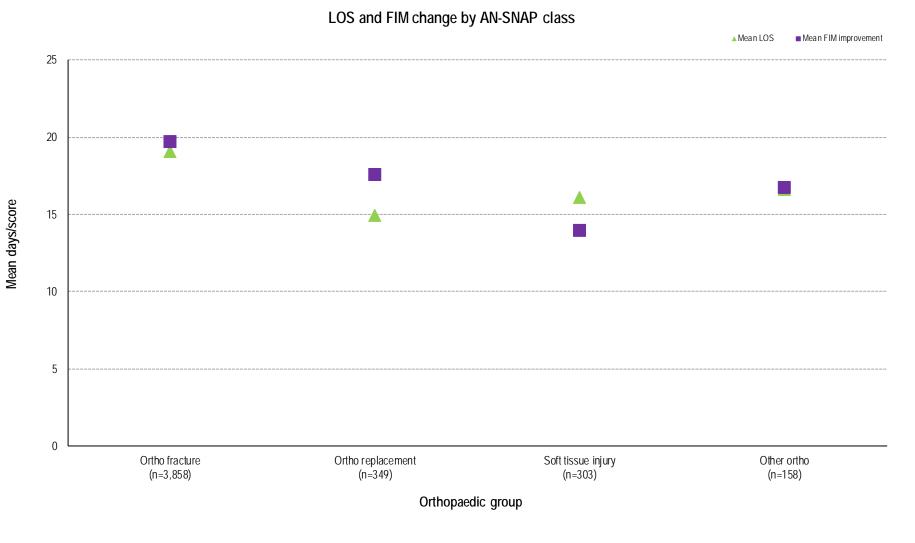
All Orthopaedic episodes discharge destination by orthopaedic group

Discharge destination - All orthopaedic conditions



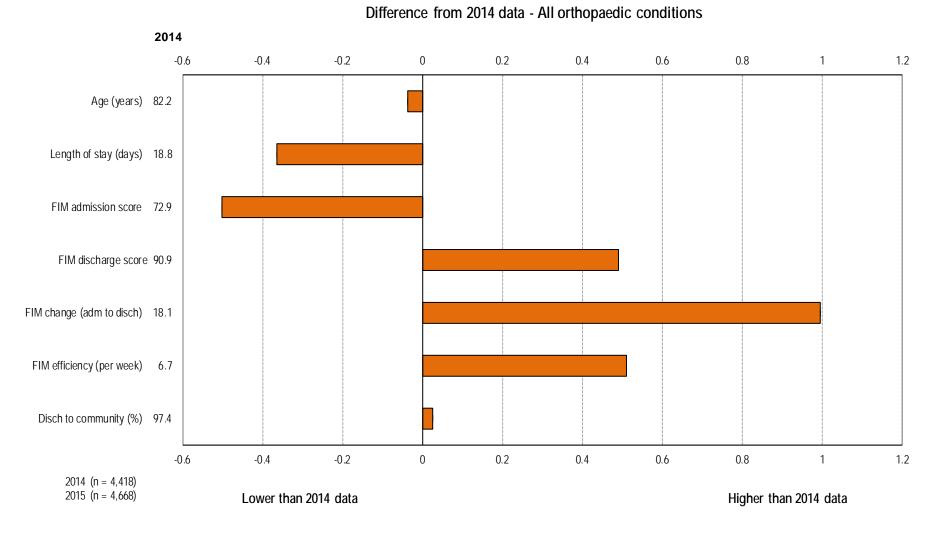


All orthopaedic conditions LOS and FIM change by orthopaedic group



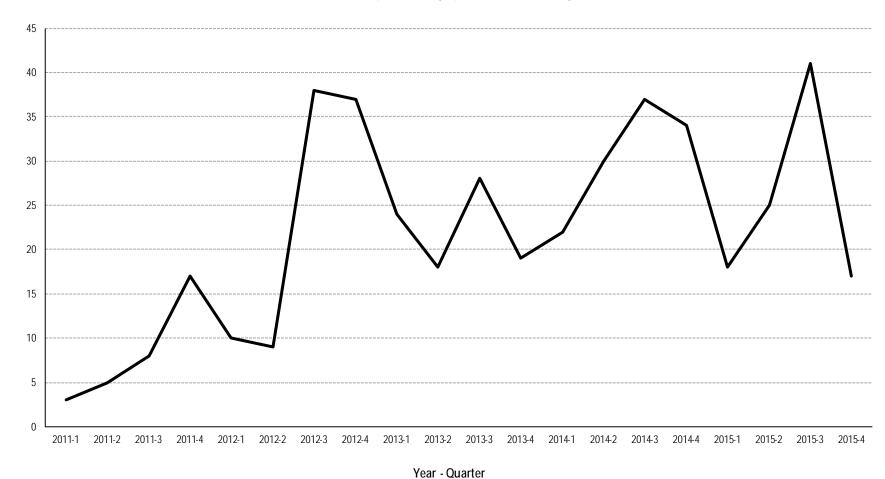
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Change in outcome measures in orthopaedic conditions, 2014 to 2015



Pulmonary episodes over time

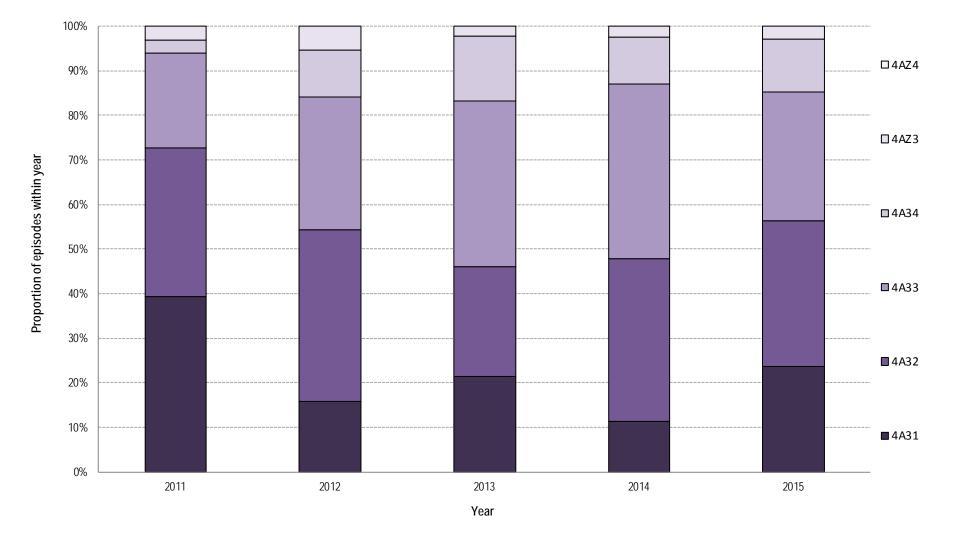
Number of episodes



Number of episodes by quarter - Pulmonary

Pulmonary casemix over time





Pulmonary episodes in 2015

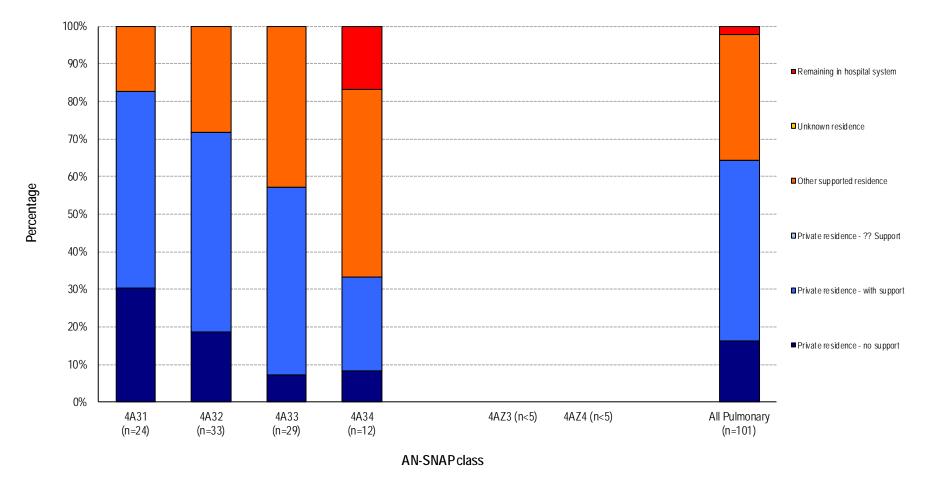


AN-SNAP class:	4A31	4A32	4A33	4A34	4AZ3	4AZ4	All Pulmonary
Number of episodes	24	33	29	12	3	0	101
Proportion of episodes	23.8%	32.7%	28.7%	11.9%	n < 5	n < 5	100.0%
Gender (%)							
Female	70.8%	51.5%	48.3%	66.7%	n < 5	n < 5	57.4%
Male	29.2%	48.5%	51.7%	33.3%	n < 5	n < 5	42.6%
Age group (%)							
Under 65	8.3%	3.0%	0.0%	0.0%	n < 5	n < 5	3.0%
Over 65	91.7%	97.0%	100.0%	100.0%	n < 5	n < 5	97.0%
Age (Mean+95%CI)	78.1 (75.0-81.3)	81.6 (78.3-84.9)	84.8 (82.0-87.6)	80.5 (76.2-84.8)	n < 5	n < 5	81.5 (79.8-83.1)
Admission FIM (Mean+95%CI)	107.3 (104.0-110.5)	87.1 (83.8-90.4)	66.0 (61.7-70.4)	45.4 (41.3-49.5)	n < 5	n < 5	79.5 (74.8-84.3)
LOS (Mean+95%CI)	14.5 (10.6-18.4)	14.8 (11.8-17.8)	17.0 (13.9-20.1)	21.6 (17.3-25.9)	n < 5	n < 5	16.2 (14.5-18.0)
Discharge destination (%)							
Discharged to community	100.0%	100.0%	100.0%	83.3%	n < 5	n < 5	98.0%
Remaining in hospital system	0.0%	0.0%	0.0%	16.7%	n < 5	n < 5	2.0%
FIM change (Mean+95%Cl)	4.1 (1.4-6.8)	11.5 (8.3-14.7)	18.1 (13.6-22.5)	16.7 (8.7-24.7)	n < 5	n < 5	12.3 (10.0-14.7)
FIM efficiency (FIM change/LOS)	0.3	0.8	1.1	0.8	n < 5	n < 5	0.8



Pulmonary discharge destination by AN-SNAP class

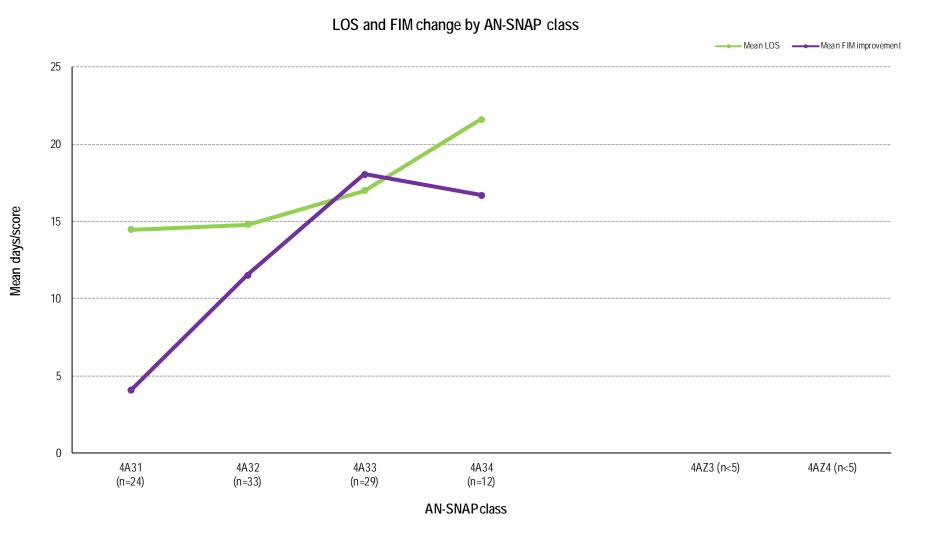
Discharge destination - Pulmonary



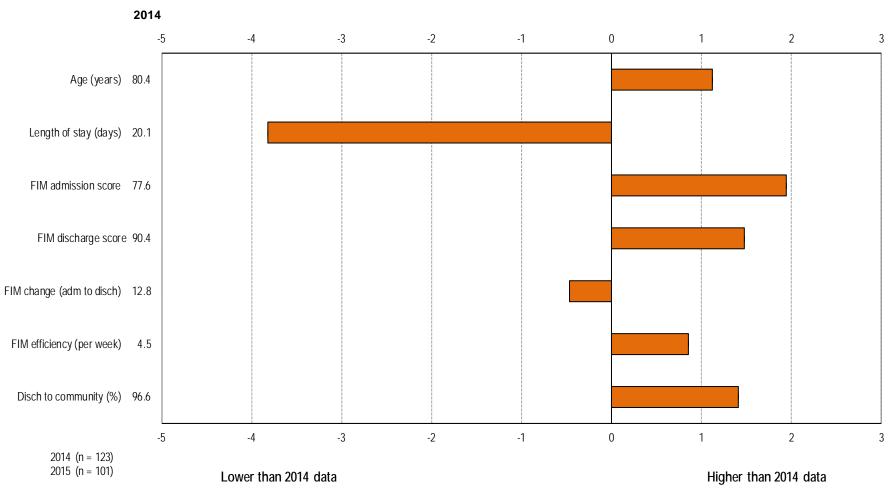
87



Pulmonary LOS and FIM change by AN-SNAP class



Change in outcome measures in pulmonary, 2014 to 2015

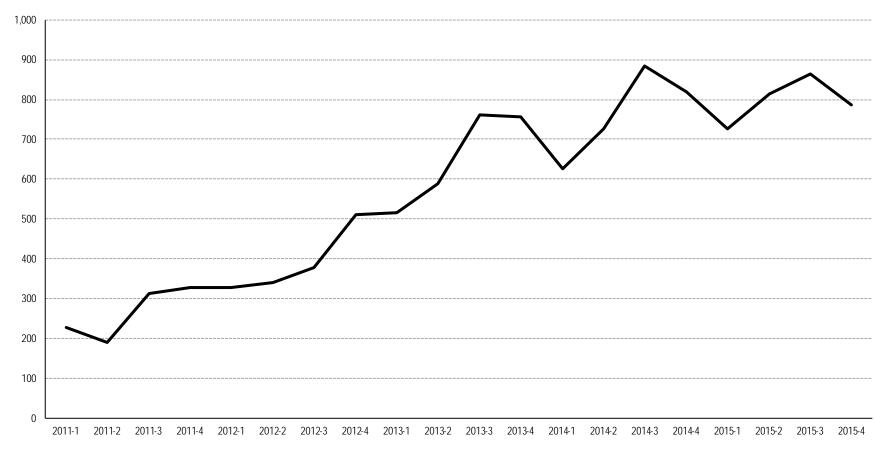


Difference from 2014 data - All Pulmonary



Reconditioning episodes over time

Number of episodes



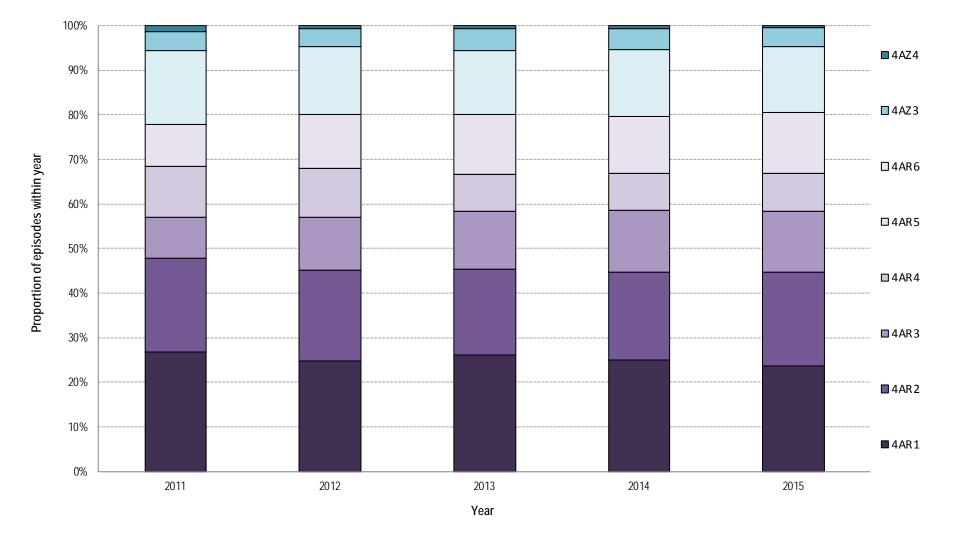
Number of episodes by quarter - Reconditioning

Year - Quarter

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Reconditioning casemix over time





AROC State of Nations - 2015 report - New Zealand

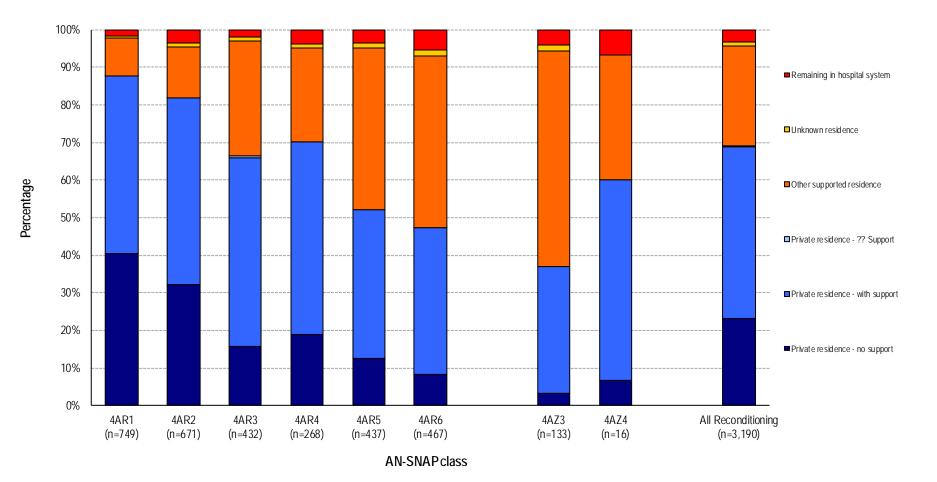
Reconditioning episodes in 2015



									All
AN-SNAP class:	4AR1	4AR2	4AR3	4AR4	4AR5	4AR6	4AZ3	4AZ4	Reconditioning
Number of episodes	749	671	432	268	437	467	133	16	3,190
Proportion of episodes	23.5%	21.0%	13.5%	8.4%	13.7%	14.6%	4.2%	0.5%	100.0%
Gender (%)									
Female	54.1%	54.4%	54.2%	49.6%	51.0%	48.8%	53.4%	43.8%	52.5%
Male	45.9%	45.6%	45.8%	50.4%	49.0%	51.2%	46.6%	50.0%	47.4%
Age group (%)									
Under 65	11.9%	6.7%	3.5%	9.0%	7.1%	9.2%	0.0%	100.0%	8.3%
Over 65	87.6%	92.7%	95.6%	90.3%	92.7%	90.8%	100.0%	0.0%	91.2%
Age (Mean+95%CI)	77.7 (76.9-78.5)	80.0 (79.2-80.8)	82.1 (81.2-83.0)	79.6 (78.2-80.9)	82.2 (81.3-83.2)	79.7 (78.6-80.7)	81.7 (80.2-83.1)	49.6 (42.7-56.6)	79.9 (79.5-80.3)
Admission FIM (Mean+95%CI)	103.1 (102.5-103.8)	88.5 (88.0-88.9)	75.7 (75.1-76.4)	71.9 (71.2-72.6)	59.1 (58.4-59.8)	46.5 (45.5-47.4)	29.5 (27.6-31.3)	40.4 (34.5-46.2)	76.5 (75.6-77.3)
LOS (Mean+95%CI)	11.8 (11.2-12.3)	14.8 (14.1-15.6)	16.2 (15.2-17.2)	19.6 (17.3-21.9)	20.3 (18.3-22.3)	24.4 (22.8-26.1)	25.3 (21.3-29.3)	27.8 (16.6-39.0)	17.2 (16.7-17.8)
Discharge destination (%)									
Discharged to community	98.4%	96.4%	98.1%	96.2%	96.5%	94.7%	95.9%	93.3%	96.8%
Remaining in hospital system	1.6%	3.6%	1.9%	3.8%	3.5%	5.3%	4.1%	6.7%	3.2%
FIM change (Mean+95%CI)	7.4 (6.9-7.9)	14.3 (13.6-15.1)	13.8 (12.6-14.9)	21.4 (19.8-23.0)	19.1 (17.7-20.6)	21.2 (19.3-23.0)	15.0 (11.5-18.5)	15.8 (5.0-26.6)	14.8 (14.3-15.3)
FIM efficiency (FIM change/LOS)	0.6	1.0	0.8	1.1	0.9	0.9	0.6	0.6	0.9

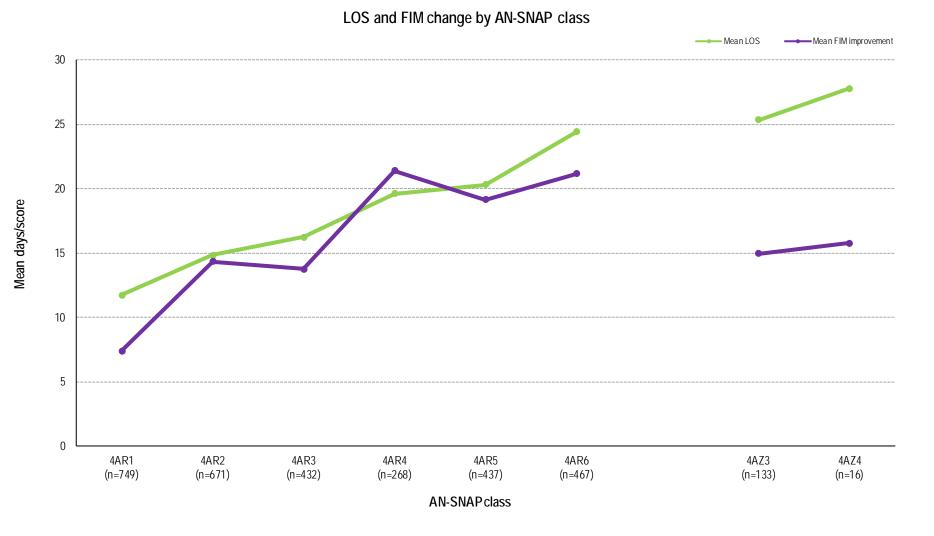
Reconditioning discharge destination by AN-SNAP class

Discharge destination - Reconditioning

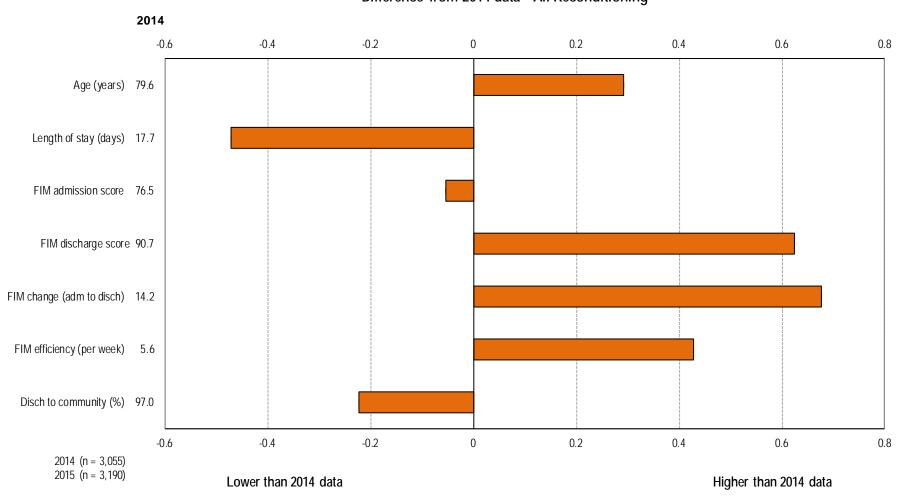




Reconditioning LOS and FIM change by AN-SNAP class



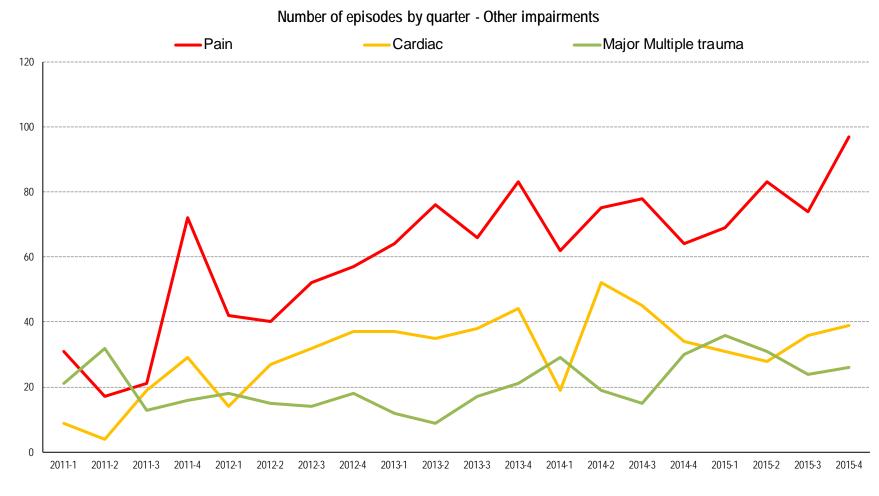
Change in outcome measures in reconditioning, 2014 to 2015



Difference from 2014 data - All Reconditioning

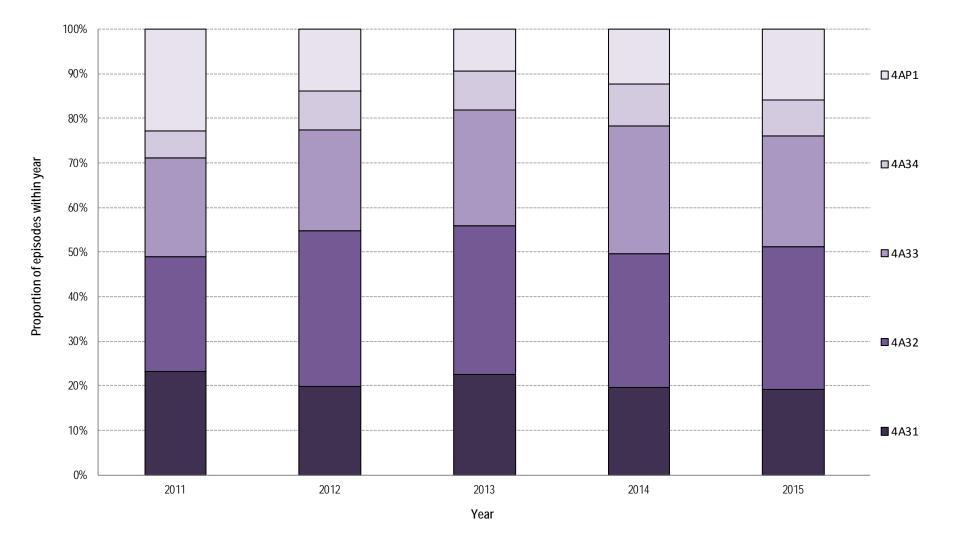
Other impairment episodes over time

Number of episodes



Year - Quarter

Other impairments casemix over time



Other impairment episodes in 2015

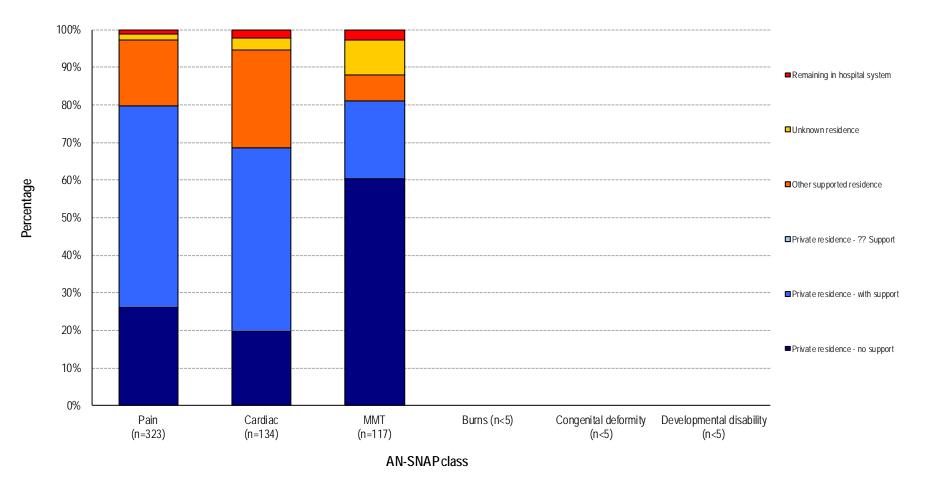
•	•					
AN-SNAP class:	Pain	Cardiac	ММТ	Burns	Congenital deformity	Developmental disability
Number of episodes	323	134	117	4	3	1
Proportion of total episodes in 2015	2.7%	1.1%	1.0%	n < 5	n < 5	n < 5
Gender (%)						
Female	73.1%	56.0%	27.4%	n < 5	n < 5	n < 5
Male	26.9%	44.0%	72.6%	n < 5	n < 5	n < 5
Age group (%)						
Under 65	6.2%	3.7%	75.2%	n < 5	n < 5	n < 5
Over 65	92.9%	95.5%	24.8%	n < 5	n < 5	n < 5
Age (Mean+95%Cl)	80.9 (79.7-82.1)	82.6 (81.2-84.0)	45.9 (41.7-50.0)	n < 5	n < 5	n < 5
Admission FIM (Mean+95%CI)	83.3 (81.2-85.5)	82.9 (79.1-86.8)	77.7 (72.0-83.4)	n < 5	n < 5	n < 5
LOS (Mean+95%CI)	15.2 (13.9-16.4)	16.6 (14.8-18.4)	38.8 (32.0-45.5)	n < 5	n < 5	n < 5
Discharge destination (%)						
Discharged to community	98.8%	97.7%	97.4%	n < 5	n < 5	n < 5
Remaining in hospital system	1.2%	2.3%	2.6%	n < 5	n < 5	n < 5
FIM change (Mean+95%Cl)	15.3 (13.9-16.6)	12.6 (10.2-14.9)	30.6 (25.9-35.4)	n < 5	n < 5	n < 5
FIM efficiency (FIM change/LOS)	1.0	0.8	0.8	n < 5	n < 5	n < 5

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Other impairment discharge destination by impairment group

Discharge destination - Other impairments

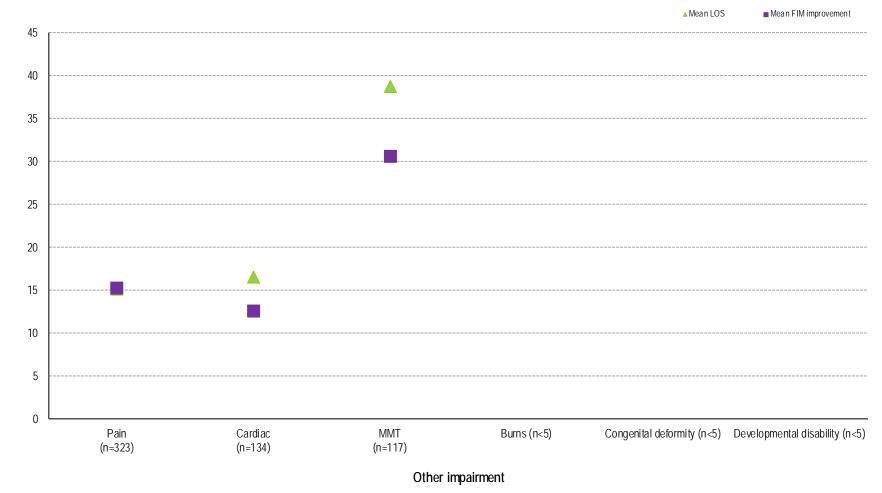




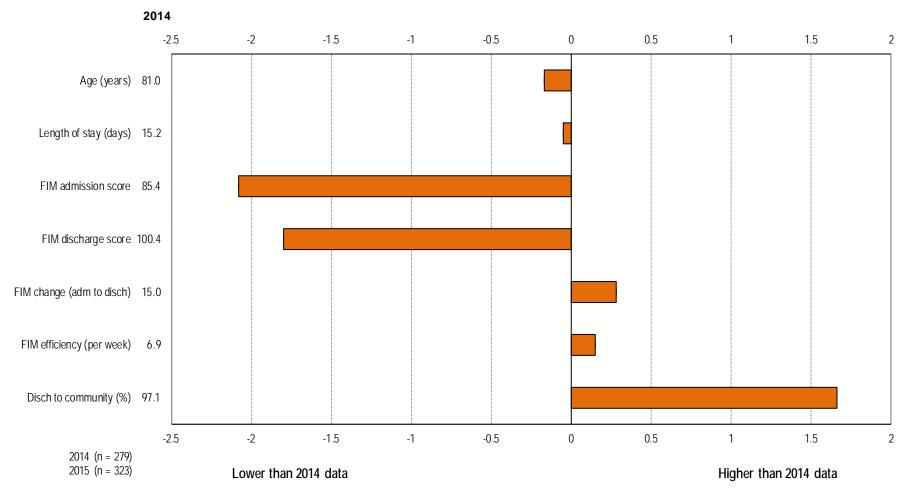
Other impairment LOS and FIM change by impairment group

Mean days/score

LOS and FIM change by AN-SNAP class



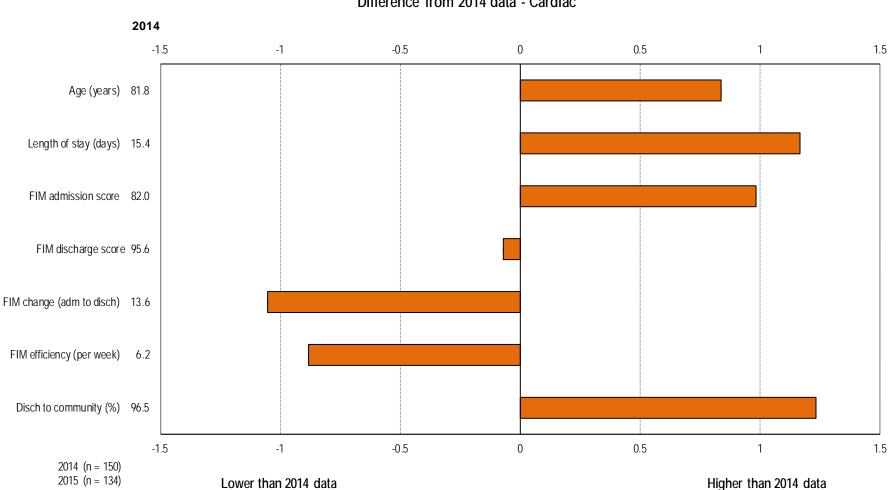
Change in outcome measures in pain, 2014 to 2015



Difference from 2014 data - Pain



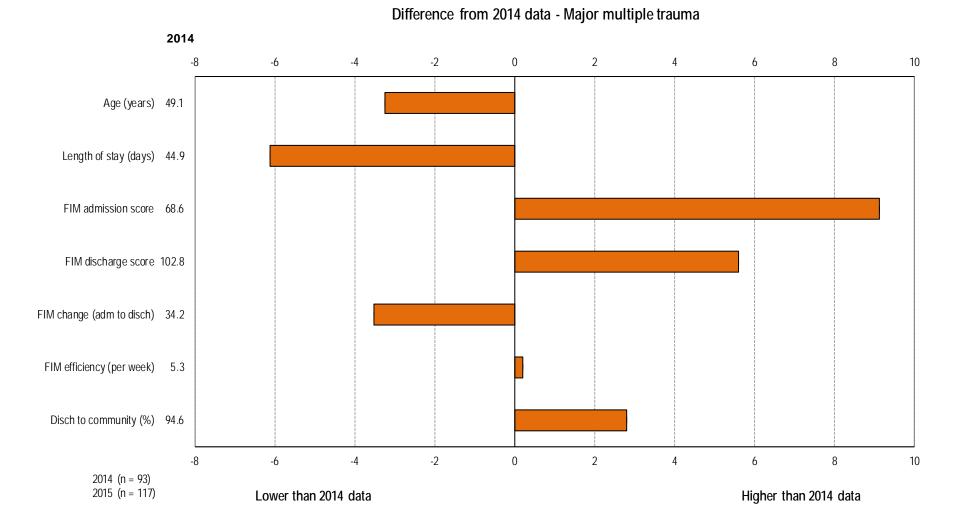
Change in outcome measures in cardiac, 2014 to 2015



Difference from 2014 data - Cardiac



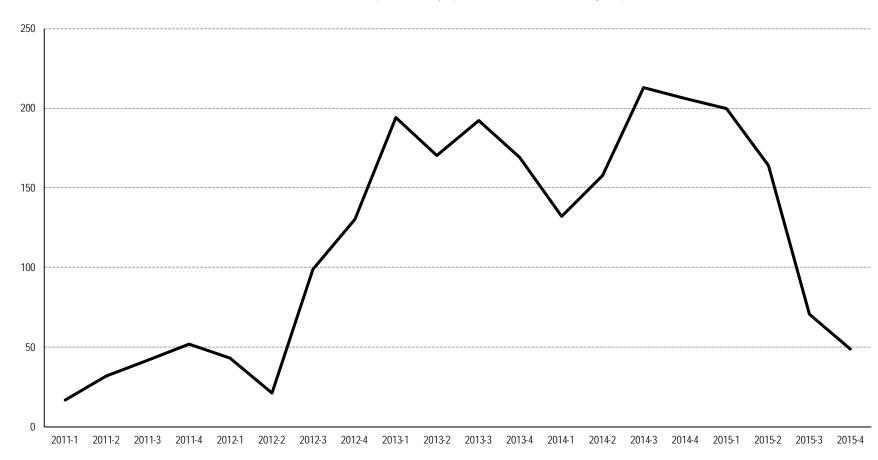
Change in outcome measures in MMT, 2014 to 2015





Other disabling impairment episodes over time

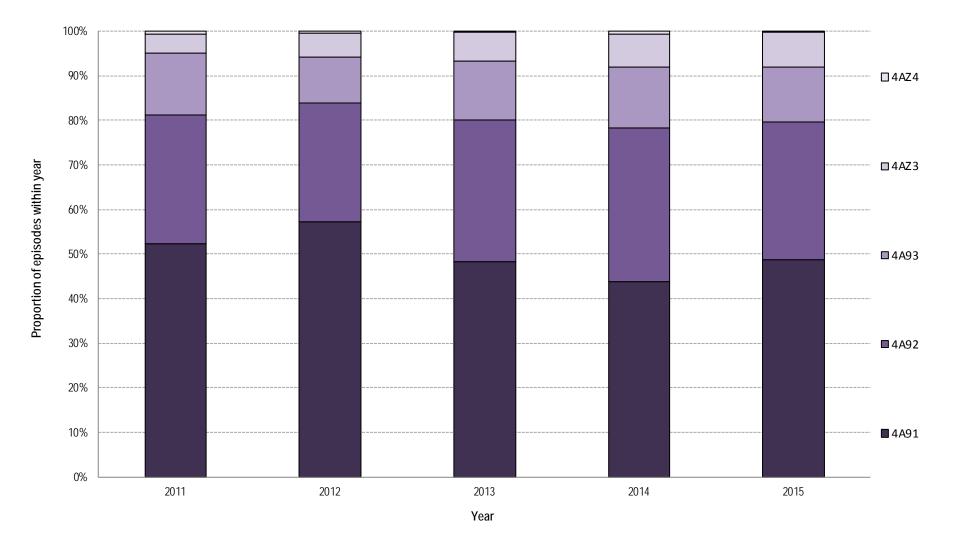
Number of episodes



Number of episodes by quarter - Other disabling impairments

Year - Quarter

Other disabling impairments casemix over time



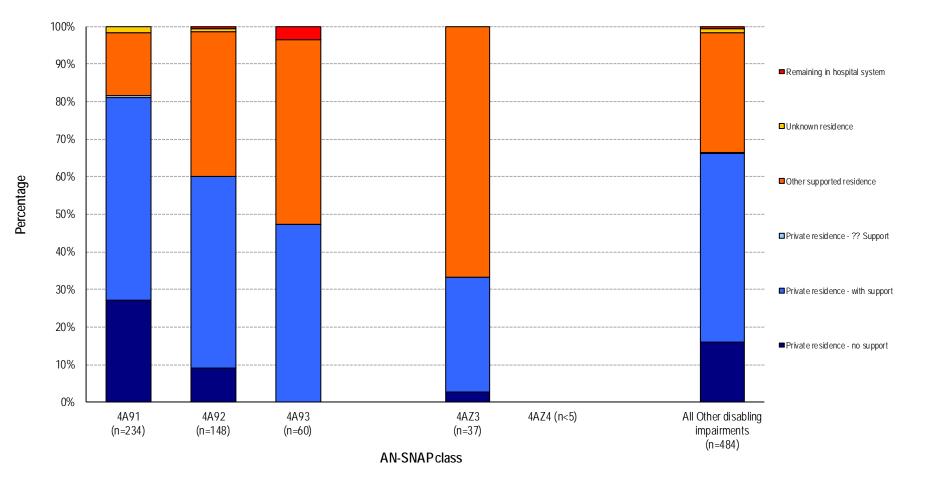
Other disabling impairment episodes in 2015

						All Other disabling
AN-SNAP class:	4A91	4A92	4A93	4AZ3	4AZ4	impairments
Number of episodes	234	148	60	37	1	484
Proportion of episodes	48.3%	30.6%	12.4%	7.6%	n < 5	100.0%
Gender (%)						
Female	57.7%	54.1%	46.7%	62.2%	n < 5	55.2%
Male	41.9%	45.9%	53.3%	37.8%	n < 5	44.4%
Age group (%)						
Under 65	12.8%	3.4%	3.3%	0.0%	n < 5	7.9%
Over 65	86.8%	96.6%	95.0%	100.0%	n < 5	91.7%
Age (Mean+95%Cl)	77.5 (75.7-79.3)	82.3 (80.6-84.0)	81.1 (78.7-83.4)	82.4 (79.7-85.0)	n < 5	79.8 (78.7-80.9)
Admission FIM (Mean+95%CI)	95.6 (93.9-97.2)	67.4 (65.7-69.1)	49.2 (46.0-52.5)	31.6 (28.2-35.1)	n < 5	76.6 (74.4-78.9)
LOS (Mean+95%CI)	15.8 (13.9-17.6)	20.2 (17.9-22.5)	25.7 (22.7-28.7)	41.7 (19.1-64.3)	n < 5	20.2 (18.1-22.3)
Discharge destination (%)						
Discharged to community	100.0%	99.3%	96.6%	100.0%	n < 5	99.4%
Remaining in hospital system	0.0%	0.7%	3.4%	0.0%	n < 5	0.6%
FIM change (Mean+95%CI)	8.7 (7.5-9.8)	13.5 (11.4-15.7)	14.2 (10.3-18.2)	10.7 (4.0-17.4)	n < 5	11.0 (9.9-12.1)
FIM efficiency (FIM change/LOS)	0.6	0.7	0.6	0.3	n < 5	0.5



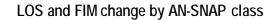
Other disabling impairment discharge destination by AN-SNAP class

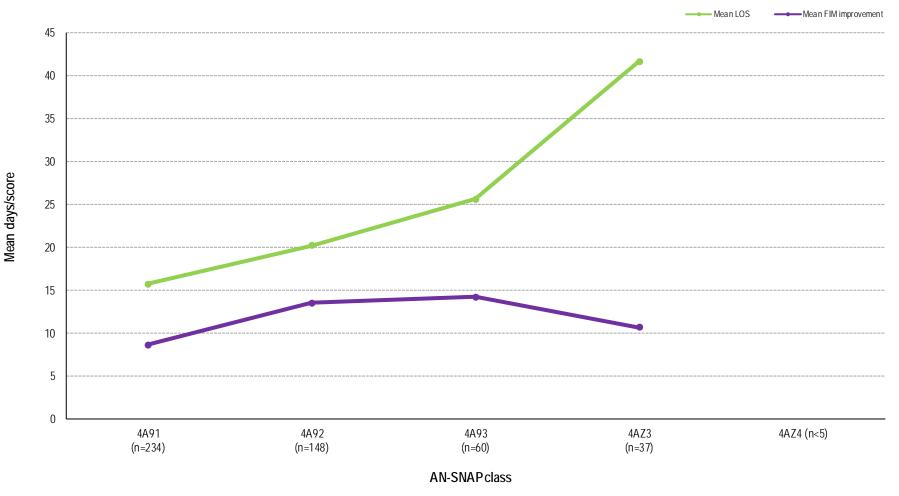
Discharge destination - Other disabling impairments



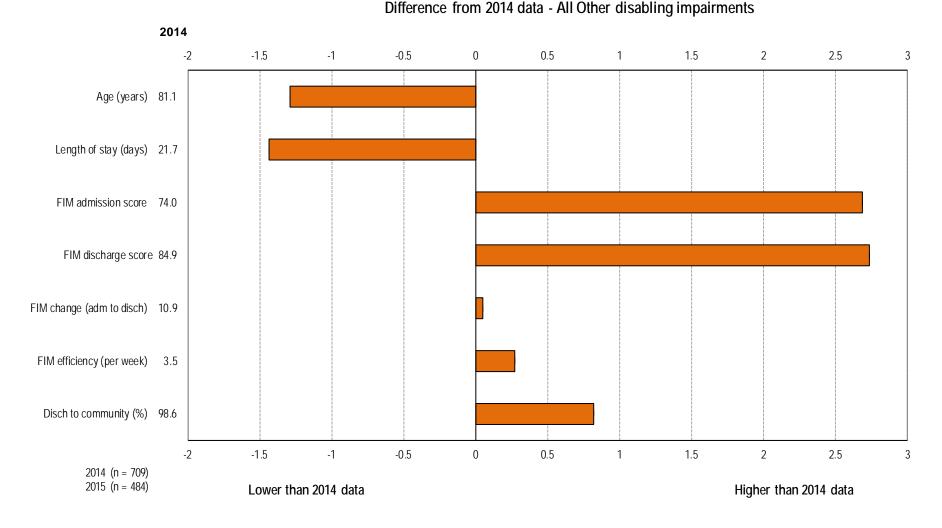


Other disabling impairment LOS and FIM change by AN-SNAP class





Change in outcome measures in other disabling impairments, 2014 to 2015







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