

PRIMHD summary report - HoNOS

Health of the Nation Outcomes Scales – working age adults report for New Zealand



This report summarises national Programme for the Integration of Mental Health Data (PRIMHD) data submitted by district health boards (DHBs). In particular, it presents Health of the National Outcomes Scale working aged adults (HoNOS) data, from services where HoNOS is the primary measure.

This report is organised into three major sections that provide information about:

1. **Outcomes related information:** This provides indications about what changes have occurred for service users between entering and leaving the service. Outcome is assessed by comparing the group admitted and the group discharged from the service in the same time period. This should provide a reasonable indication of outcomes achieved unless the service user mix has changed significantly over the usual period for which service is delivered.
2. **Service related information:** This provides information about the services, such as the overall severity of service users who use different services.
3. **Collection completion and validity:** This details the completeness of the data set provided by your mental health services. This is important because it indicates how valid and reliable the data sets are likely to be. The less complete the data set, the less valid the information is likely to be.

In many cases the data is presented graphically for New Zealand, and then presented as a table for the individual team types (see team type classification factsheet).

The time period covered differs for the different data presented. See the title or the notes under the graphs or tables for information about the time period covered. Unless otherwise stated, the notes under the graphs also apply to the corresponding table.

For all graphs and tables, if there are less than twenty cases in the data set, then the information is not presented. This is because small samples frequently provide inaccurate and potentially misleading results. See the notes and user guide for other important information about the graphs and tables.

Where appropriate, the statistical **confidence interval** is presented. This is shown by error bars (small lines above and below the average) on the graphs, and a score range in some tables. As a rule of thumb, if the confidence intervals of two data points do not overlap, the two points can be considered to be significantly different. If the confidence intervals of the data points do overlap, we assume the points are not significantly different. It is important to note that statistical significance may not indicate a clinically significant difference. **See the associated user guide for more information** about how to understand and use the data presented in this report.

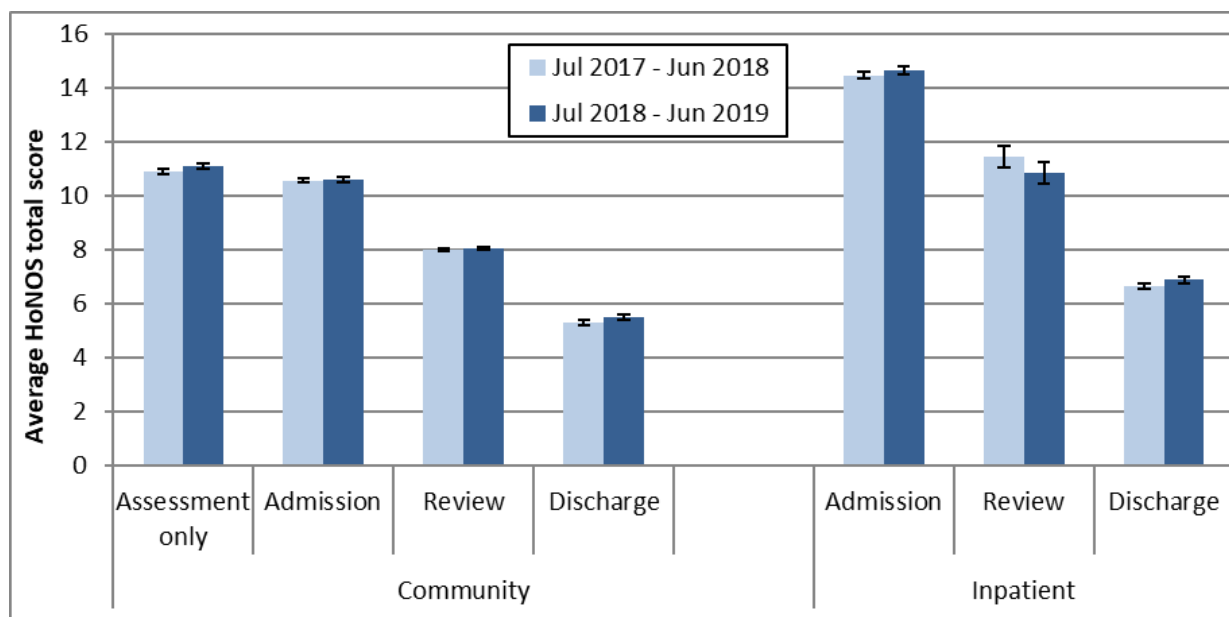
Data for graphs 11 and 12 was extracted 23 October 2019 from PRIMHD by the Ministry of Health and formatted by Te Pou. The data for graphs and tables 1 to 10 and 13 was extracted 9 October 2019 from PRIMHD by the Ministry of Health, then analysed and formatted by Te Pou.

Please note: For this period a few DHBs have incomplete data which will affect New Zealand totals.

1. Outcomes – changes in service user status

This section presents HoNOS data indicating the status of service users at different stages of their contact with DHB mental health services. Graph and Table 1 and 2 show results from HoNOS total scores. Graphs and Tables 3 to 5b show results related to the percentage of HoNOS items in the clinical range. Graph and Table 6 show results from the Index of Severity derived from HoNOS scores.

Graph 1: Average HoNOS total score (12 items) by collection type, New Zealand, Jul 2017 - Jun 2018 and Jul 2018 - Jun 2019



Notes: Error bars indicate the confidence intervals around the data point. If error bars overlap the data points are not significantly different. Community discharge does not include discharge to an inpatient unit.

Interpretation: Decrease between admission and discharge is an indication of the outcomes achieved by the service user and service. The greater the decrease between admission and discharge, and the lower the average HoNOS score at discharge, the more positive the outcome.

Target: A greater decrease from admission to discharge and lower average rating at discharge.

Table 1: Average HoNOS total score (12 items), by collection type and team, New Zealand, Jul 2018 - Jun 2019

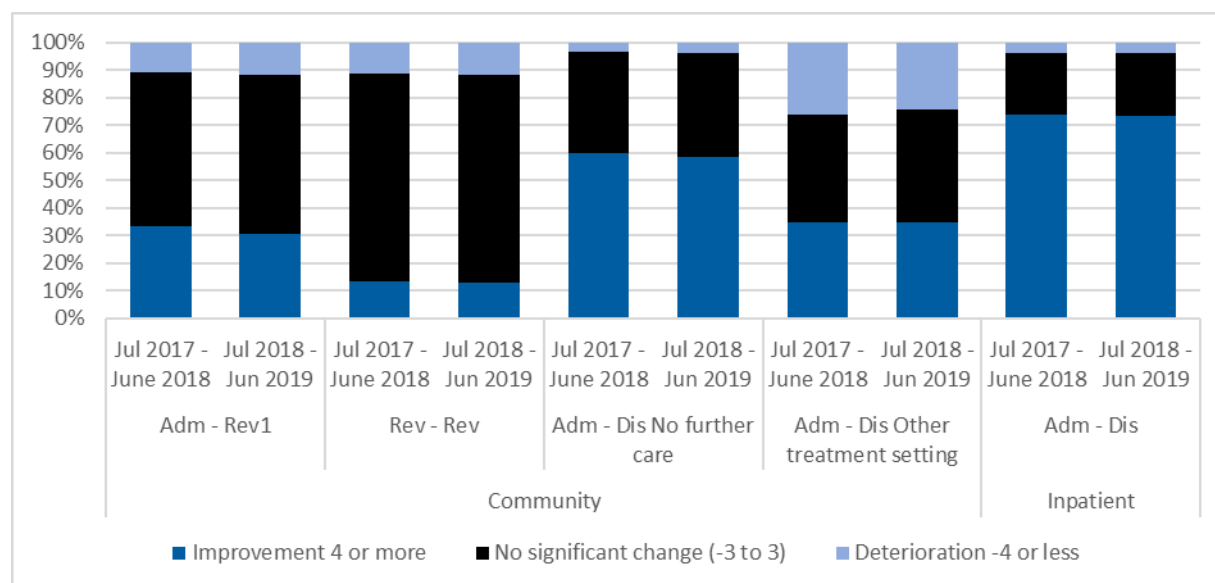
Team type	Assessment only			Admission			Review			Discharge		
	N	Mean	CI	N	Mean	CI	N	Mean	CI	N	Mean	CI
Community services												
Alcohol and drug team	437	11.9	11.3-12.5	600	10.3	9.9-10.7	789	6.8	6.4-7.1	322	5.1	4.6-5.6
Child and youth team	43	11.3	9.5-13.2	52	10.1	8.7-11.6	191	9.3	8.3-10.2	79	6.5	5.6-7.4
Co-existing problem team				20	15.3	12.6-17.9	31	10.0	7.5-12.5			
Community team	10,319	11.1	11.0-11.2	12,896	10.7	10.6-10.8	36,750	8.2	8.1-8.2	7,153	5.6	5.5-5.7
Early intervention team				331	10.5	9.9-11.2	1,265	8.4	8.1-8.7	139	5.7	4.9-6.4
Eating disorders team	42	10.3	9.0-11.6	302	11.3	10.7-11.9	387	10.5	9.8-11.1	174	5.9	5.1-6.6
Forensic team	59	9.0	7.0-11.0	100	10.8	9.7-11.9	114	7.7	6.8-8.7	128	5.9	5.1-6.7
Intellectual disability dual diagnosis team							31	12.0	10.1-13.9			
Kaupapa Māori team	337	11.8	11.2-12.3	502	11.4	10.8-11.9	2,935	8.4	8.2-8.7	295	7.3	6.6-8.0
Maternal mental health team	197	7.1	6.3-7.8	1,029	9.1	8.8-9.4	1,351	7.1	6.8-7.3	871	3.9	3.7-4.2
Older people team	31	10.0	7.6-12.4	68	11.4	10.0-12.7	122	10.4	9.4-11.3	41	9.5	7.8-11.2
Pacific people team				172	6.7	6.0-7.4	1,216	4.6	4.4-4.8	87	2.5	1.8-3.1
Specialty team	163	13.6	12.2-14.9	85	15.9	13.9-17.8	67	10.7	9.4-12.0	30	6.8	4.8-8.8
Total	11,654	11.1	11.0-11.2	16,172	10.6	10.5-10.7	45,289	8.1	8.0-8.1	9,341	5.5	5.4-5.6

Team type	Assessment only			Admission			Review			Discharge		
	N	Mean	CI	N	Mean	CI	N	Mean	CI	N	Mean	CI
Inpatient services												
Alcohol and drug team				258	8.2	7.8-8.7				238	6.4	6.0-6.7
Eating disorders team				22	10.1	8.6-11.7						
Forensic team				20	14.1	9.5-18.6	94	12.5	11.3-13.7	28	3.6	1.8-5.4
Inpatient team				8,664	14.9	14.7-15.0	1,093	10.7	10.3-11.1	8,293	6.9	6.8-7.0
Maternal mental health team				87	11.0	9.7-12.3				65	6.3	5.3-7.2
Older people team				41	12.5	10.7-14.4				38	10.3	7.8-12.7
Total				9,100	14.6	14.5-14.8	1,199	10.9	10.5-11.3	8,689	6.9	6.8-7.0

Notes: N = number of collections in period. Average = average HoNOS (12 item) score, CI = confidence interval for average score. Community discharge does not include discharges to an inpatient unit.

Interpretation: If confidence intervals for two scores do not overlap, then the scores are statistically significantly different. It is important to note that statistical significance may not indicate a clinically significant difference.

Graph 2: Difference in HoNOS total score (12 items) of matched pairs by pair type and setting, A DHB, Apr 2018 – Mar 2019

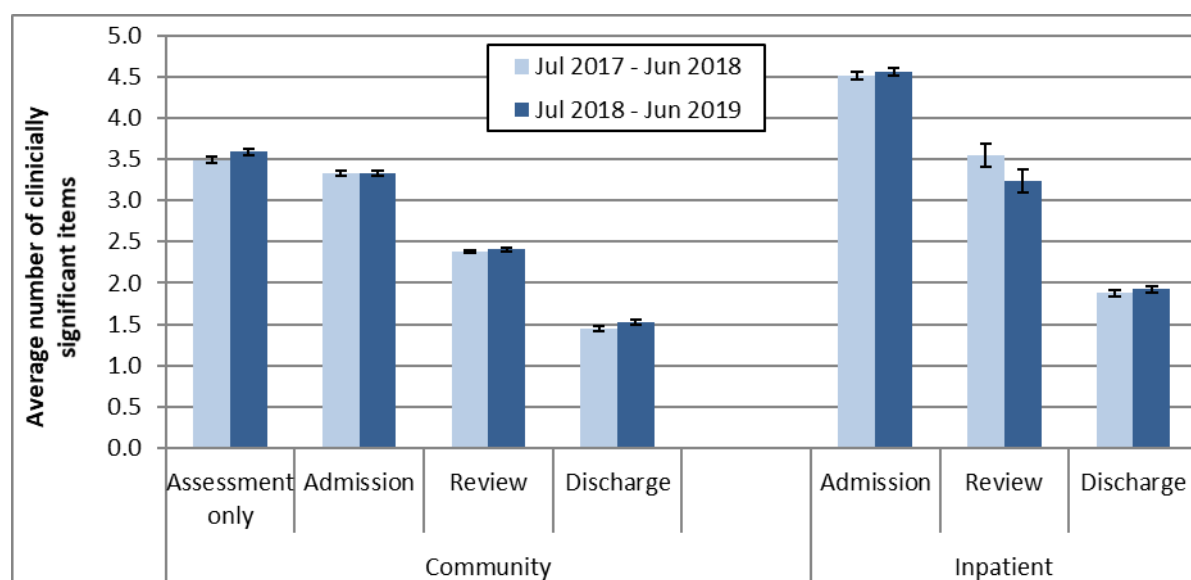


Notes: Shows the difference of the matched pair between the start and end HoNOS total score.

Interpretation: The graphs compare two time periods. Dark blue band indicates percentage improvement within the given time period, while black band indicates no significant change and light blue deterioration. Improvement = 4 or more, no significant change = -3 to 3 and deterioration = -4 or less.

Target: A greater percentage increase in improvement for both community and inpatient settings and a smaller percentage in deterioration.

Graph 3: Average number of clinically significant HoNOS items by collection type, New Zealand, Jul 2017 - Jun 2018 and Jul 2018 - Jun 2019



Notes: Average number clinically significant items = the average number of items in the clinical range (2, 3 or 4) per collection. Community discharge does not include discharge to an inpatient unit.

Interpretation: Points are significantly different if error bars don't overlap. Decrease between admission and discharge is an indication of the outcomes achieved by the service and service user. A greater decrease between admission and discharge indicates a better outcome. Lower admission score could be indication of service users seeking out and being engaged by services at a lower level of severity.

Target: A greater decrease from admission to discharge and smaller percentage in clinical range at discharge.

Table 3: Average number of clinically significant HoNOS items by collection type and team, New Zealand, Jul 2018 - Jun 2019

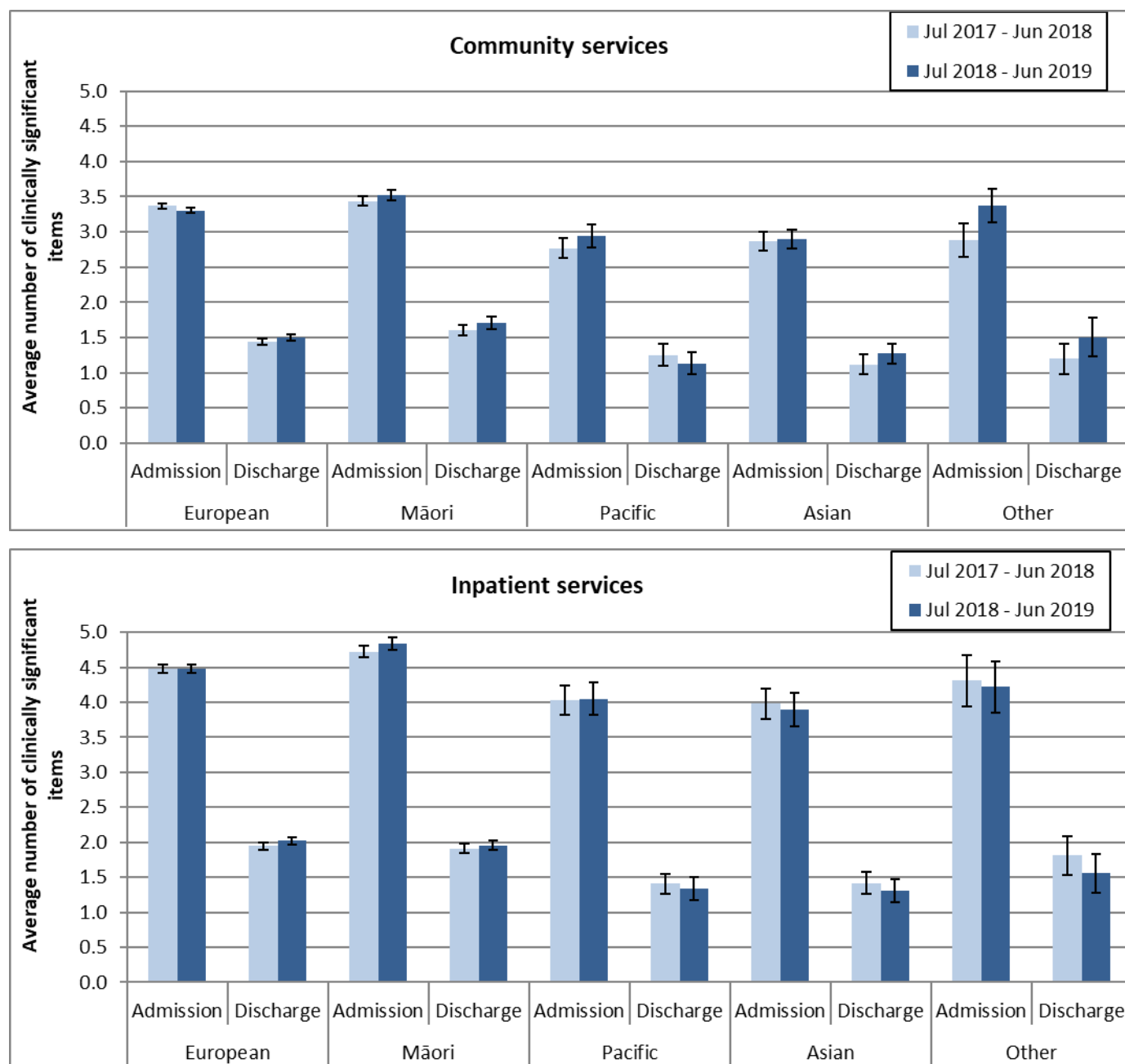
Team type	Assessment only			Admission			Review			Discharge		
	N	Mean	CI	N	Mean	CI	N	Mean	CI	N	Mean	CI
Community service												
Alcohol and drug team	437	3.8	3.6-4.0	600	3.2	3.1-3.4	789	2.0	1.9-2.1	322	1.4	1.2-1.6
Child and youth team	43	3.8	3.2-4.4	52	3.4	2.9-4.0	191	2.8	2.4-3.1	79	1.9	1.6-2.3
Co-existing problem team				20	4.8	3.7-5.9	31	3.0	2.0-3.9			
Community team	10,319	3.6	3.6-3.7	12,896	3.4	3.3-3.4	36,750	2.4	2.4-2.5	7,153	1.6	1.5-1.6
Early intervention team				331	3.2	2.9-3.4	1,265	2.5	2.4-2.6	139	1.7	1.4-2.0
Eating disorders team	42	3.4	2.8-3.9	302	3.5	3.3-3.8	387	3.2	3.0-3.5	174	1.7	1.4-1.9
Forensic team	59	2.4	1.8-3.0	100	3.0	2.6-3.4	114	2.1	1.8-2.5	128	1.3	1.1-1.5
Intellectual disability dual diagnosis team							31	3.9	3.2-4.6			
Kaupapa Māori team	337	3.7	3.5-4.0	502	3.6	3.4-3.8	2,935	2.5	2.4-2.6	295	2.1	1.8-2.3
Maternal mental health team	197	2.3	2.0-2.5	1,029	2.9	2.8-3.0	1,351	2.2	2.1-2.3	871	1.0	0.9-1.1
Older people team	31	2.9	2.1-3.7	68	3.4	2.9-3.8	122	3.2	2.8-3.5	41	2.8	2.3-3.3
Pacific people team				172	1.8	1.6-2.1	1,216	1.2	1.1-1.2	87	0.4	0.3-0.6
Specialty team	163	3.8	3.4-4.1	85	4.8	4.3-5.3	67	3.6	3.0-4.1	30	2.0	1.2-2.7
Total	11,654	3.6	3.6-3.6	16,172	3.3	3.3-3.4	45,289	2.4	2.4-2.4	9,341	1.5	1.5-1.6

Team type	Assessment only			Admission			Review			Discharge		
	N	Mean	CI	N	Mean	CI	N	Mean	CI	N	Mean	CI
Inpatient services												
Alcohol and drug team				258	2.2	2.1-2.4				238	1.8	1.7-1.9
Eating disorders team				22	3.1	2.6-3.6						
Forensic team				20	4.3	2.8-5.8	94	3.9	3.4-4.4	28	0.8	0.2-1.3
Inpatient team				8,664	4.6	4.6-4.7	1,093	3.2	3.0-3.3	8,293	1.9	1.9-2.0
Maternal mental health team				87	3.5	3.0-3.9				65	1.8	1.5-2.2
Older people team				41	3.9	3.2-4.6				38	3.1	2.3-3.9
Total				9,100	4.6	4.5-4.6	1,199	3.2	3.1-3.4	8,689	1.9	1.9-2.0

Notes: N = Number of collections in period. Average = average number of HoNOS items in the clinically significant range (ie scoring 2, 3, or 4), CI = confidence interval for average score. Community discharge does not include discharge to an inpatient unit.

Interpretation: If confidence intervals for two scores do not overlap, then the scores are statistically significantly different. Please note that statistical significance may not indicate a clinically significant difference.

Graph 4: Average number of clinically significant HoNOS items at admission and discharge by ethnic group, New Zealand, Jul 2017 - Jun 2018 and Jul 2018 - Jun 2019

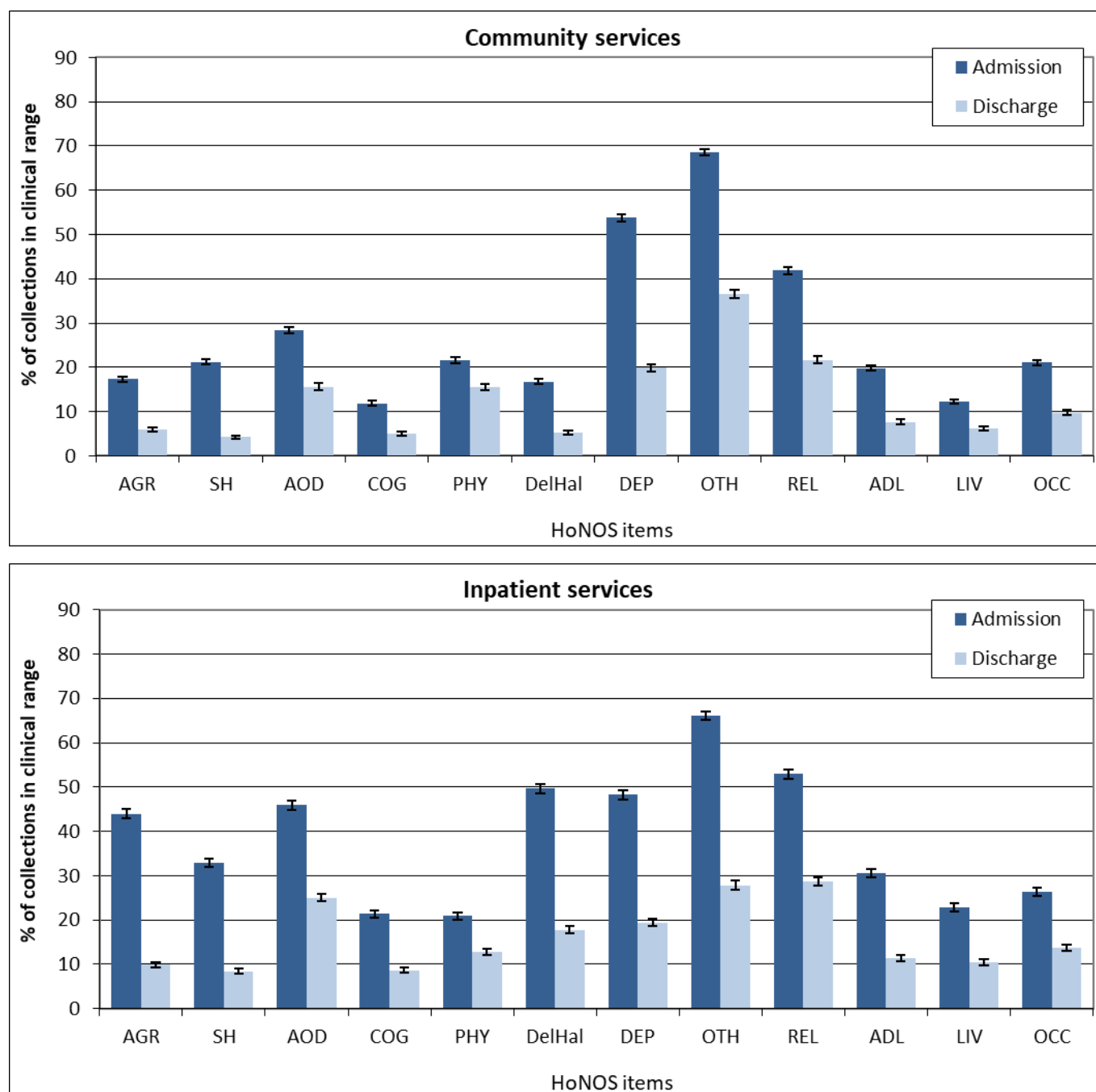


Notes: Average number of HoNOS items in the clinical range (2, 3 or 4). Community discharge does not include discharge to an inpatient unit.

Interpretation: Points are significantly different if error bars don't overlap. Decrease between admission and discharge is an indication of the outcomes achieved by the service and service user. A greater decrease between admission and discharge indicates a better outcome. A lower admission score could be indication of service users seeking out and being engaged by services at a lower level of acuity.

Target: A greater decrease from admission to discharge and smaller percentage in clinical range at discharge.

Graph 5a: Percentage of collections in clinical range on each HoNOS item, New Zealand, Jul 2018 - Jun 2019



Notes: Percentage of service users in the clinical range (2, 3 or 4) for each HoNOS item. Community discharge does not include discharge to an inpatient unit.

Interpretation: The longer the bar, the more prevalent the difficulty measured by the item is amongst service users. A greater decrease in the length of the bar from admission to discharge suggests a better outcome for the difficulty measured by the item. Items that show medium to high frequency and less change may suggest possible targets for service improvement.

Target: A greater decrease from admission to discharge and smaller percentage in clinical range at discharge.

Table 5a: Percentage of collections in clinical range on each HoNOS item (admission and discharge collections) by team, New Zealand, Jul 2018 - Jun 2019

Community services

First 6 HoNOS items														
Team type	N		AGR		SH		AOD		COG		PHY		DelHal	
	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch
Alcohol and drug team	600	322	16%	6%	13%	3%	89%	51%	8%	2%	23%	13%	3%	1%
Child and youth team	52	79	17%	3%	43%	10%	29%	13%	10%	6%	14%	11%	8%	9%
Co-existing problem team	20		55%		45%		65%		15%		20%		15%	
Community team	12,882	7,144	18%	6%	24%	4%	28%	16%	12%	5%	21%	16%	17%	6%
Early intervention team	331	139	17%	6%	12%	7%	27%	17%	21%	7%	11%	7%	50%	16%
Eating disorders team	302	174	9%	2%	11%	6%	13%	7%	17%	2%	40%	16%	11%	7%
Forensic team	100	128	16%	3%	9%	1%	41%	10%	11%	2%	14%	9%	7%	4%
Kaupapa Māori team	502	295	21%	12%	15%	7%	37%	28%	16%	6%	19%	14%	29%	11%
Maternal mental health team	1,029	871	13%	3%	8%	1%	4%	2%	4%	1%	22%	10%	3%	0%
Older people team	68	41	21%	7%	5%	0%	7%	0%	56%	73%	46%	54%	26%	7%
Pacific people team	172	87	6%	0%	2%	1%	17%	6%	8%	1%	15%	9%	20%	7%
Specialty team	85	30	25%	7%	32%	0%	32%	10%	25%	27%	51%	40%	16%	7%
Total	16,152	9,328	17%	6%	21%	4%	28%	16%	12%	5%	22%	16%	17%	5%

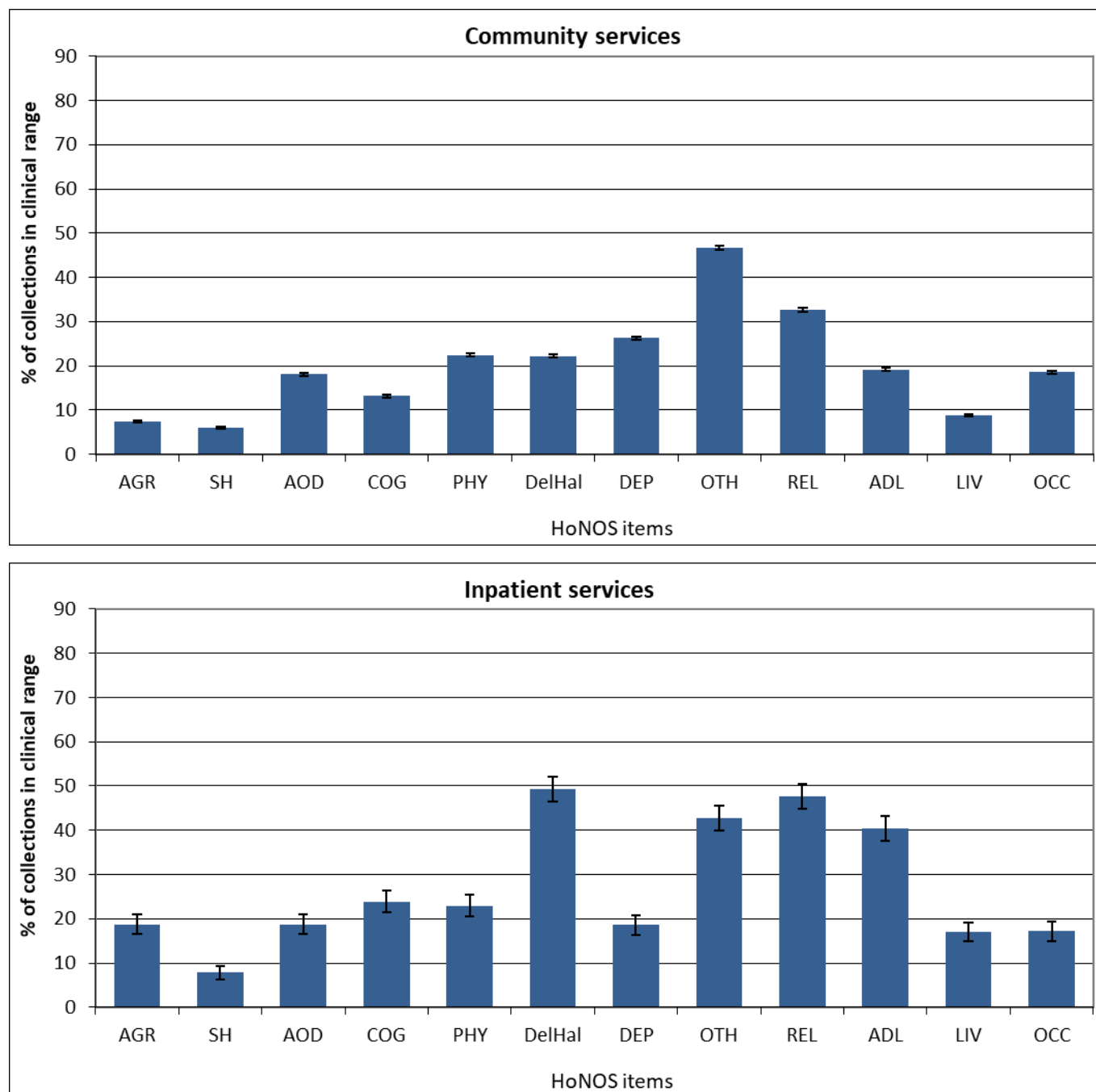
Second 6 HoNOS items												
Team type	DEP		OTH		REL		ADL		LIV		OCC	
	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch
Alcohol and drug team	34%	9%	50%	14%	44%	18%	14%	8%	13%	6%	20%	10%
Child and youth team	58%	25%	75%	54%	52%	34%	23%	15%	2%	4%	13%	9%
Co-existing problem team	55%		84%		65%		20%		0%		47%	
Community team	55%	21%	69%	37%	42%	22%	19%	8%	12%	6%	21%	10%
Early intervention team	31%	9%	56%	36%	39%	30%	26%	12%	12%	5%	19%	14%
Eating disorders team	56%	24%	98%	64%	36%	18%	38%	9%	9%	5%	18%	8%
Forensic team	12%	2%	25%	3%	28%	4%	10%	0%	67%	47%	64%	48%
Kaupapa Māori team	46%	28%	66%	35%	48%	32%	20%	11%	17%	13%	26%	10%
Maternal mental health team	73%	19%	85%	39%	37%	17%	19%	3%	10%	3%	15%	2%
Older people team	28%	10%	33%	17%	35%	32%	54%	63%	11%	10%	18%	7%
Pacific people team	27%	0%	28%	7%	34%	7%	12%	2%	8%	1%	9%	2%
Specialty team	39%	10%	86%	23%	46%	30%	54%	30%	24%	3%	52%	10%
Total	54%	20%	69%	37%	42%	22%	20%	8%	12%	6%	21%	10%

Inpatient services

First 6 HoNOS items														
Team type	N		AGR		SH		AOD		COG		PHY		DelHal	
	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch
Alcohol and drug team	258	238	5%	10%	2%	0%	100%	99%	3%	7%	27%	22%	2%	1%
Eating disorders team	22		5%		18%		9%		5%		50%		5%	
Forensic team	20	28	50%	0%	5%	0%	32%	7%	21%	4%	20%	4%	60%	14%
Inpatient team	8,647	8,290	46%	10%	34%	9%	45%	23%	22%	9%	21%	12%	52%	18%
Maternal mental health team	87	65	16%	11%	30%	8%	12%	5%	8%	3%	14%	3%	14%	3%
Older people team	41	38	24%	16%	8%	0%	15%	5%	46%	53%	49%	32%	23%	32%
Total	9,083	8,686	44%	10%	33%	8%	46%	25%	21%	9%	21%	13%	50%	18%
Second 6 HoNOS items														
Team type	DEP		OTH		REL		ADL		LIV		OCC			
	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch	Adm	Disch		
Alcohol and drug team	41%	21%	19%	13%	7%	3%	5%	2%	19%	6%	11%	0%		
Eating disorders team	73%		95%		23%		27%		0%		5%			
Forensic team	40%	0%	60%	21%	55%	11%	30%	7%	25%	7%	37%	4%		
Inpatient team	48%	19%	67%	28%	54%	29%	31%	11%	23%	11%	27%	14%		
Maternal mental health team	77%	40%	81%	67%	48%	34%	30%	5%	8%	5%	11%	2%		
Older people team	37%	13%	39%	27%	51%	49%	39%	50%	28%	23%	40%	24%		
Total	48%	19%	66%	28%	53%	29%	30%	11%	23%	10%	26%	14%		

Notes: Percentage of service users in the clinical range (2, 3 or 4) for each HoNOS item. Community discharge does not include discharge to an inpatient unit. **Interpretation:** The higher the percentage, the more prevalent the difficulty measured by the item is amongst service users. A greater decrease between admission to discharge suggests a better outcome for the difficulty measured by the item. Items that show medium to high frequency and less change may suggest possible targets for service improvement. **Target:** A greater decrease from admission to discharge and smaller percentage in clinical range at discharge.

Graph 5b: Percentage of collections in clinical range on each HoNOS item (review collections), New Zealand, Jul 2018 - Jun 2019



Notes: Percentage of service users in the clinical range (2, 3 or 4) for each HoNOS item on review collections. Due to most admission being less than 91 days, the data set for review collections in inpatient settings is relatively small.

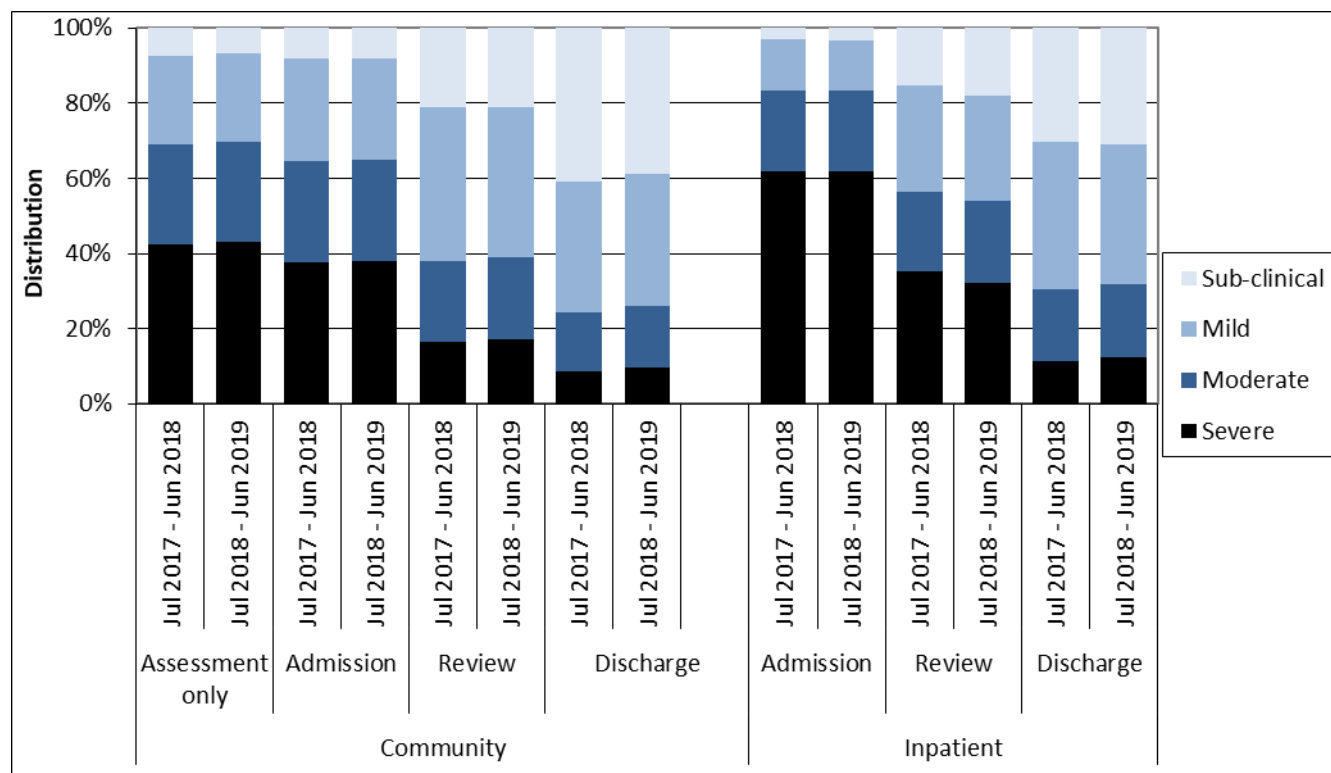
Interpretation: The longer the bar, the more prevalent the difficulty measured by the item is amongst service users.

Table 5b: Percentage of collections in clinical range on each HoNOS item (review collections) by team, New Zealand, Jul 2018 - Jun 2019

Team type	N	AGR	SH	AOD	COG	PHY	DelHal	DEP	OTH	REL	ADL	LIV	OCC
Community services													
Alcohol and drug team	789	8%	5%	64%	6%	22%	2%	21%	28%	24%	6%	5%	8%
Child and youth team	191	11%	13%	22%	13%	13%	13%	37%	62%	41%	23%	10%	22%
Co-existing problem team	31	13%	10%	42%	10%	39%	6%	26%	52%	39%	29%	7%	26%
Community team	36,715	7%	6%	17%	13%	23%	23%	26%	47%	33%	20%	9%	19%
Early intervention team	1,265	9%	5%	26%	16%	10%	33%	21%	48%	35%	24%	9%	16%
Eating disorders team	387	10%	13%	9%	13%	39%	8%	53%	93%	32%	29%	9%	18%
Forensic team	114	2%	0%	11%	4%	25%	22%	5%	16%	17%	13%	42%	58%
Intellectual disability dual diagnosis team	31	13%	6%	0%	74%	37%	19%	13%	35%	77%	81%	13%	23%
Kaupapa Māori team	2,934	10%	6%	26%	14%	23%	27%	23%	43%	31%	17%	12%	19%
Maternal mental health team	1,351	8%	4%	4%	4%	17%	1%	52%	73%	33%	10%	6%	8%
Older people team	122	22%	3%	2%	66%	39%	25%	15%	27%	37%	65%	4%	12%
Pacific people team	1,216	2%	1%	10%	4%	14%	21%	7%	16%	14%	11%	5%	12%
Specialty team	67	9%	4%	6%	57%	36%	0%	40%	51%	57%	60%	13%	22%
Total	45,253	7%	6%	18%	13%	22%	22%	26%	47%	33%	19%	9%	19%
Inpatient services													
Forensic team	94	30%	10%	15%	35%	23%	63%	22%	54%	62%	53%	7%	19%
Inpatient team	1,093	18%	8%	19%	23%	23%	48%	18%	42%	46%	40%	18%	17%
Total	1,199	19%	8%	19%	24%	23%	49%	19%	43%	48%	40%	17%	17%

Notes: Percentage of service users in the clinical range (2, 3 or 4) for each HoNOS item on review collections. Due to most admission being less than 91 days, the data set for review collections in inpatient settings is relatively small. **Interpretation:** The higher the percentage, the more prevalent the difficulty measured by the item is amongst service users.

Graph 6: Index of Severity ratings for HoNOS by collection type, New Zealand, Jul 2017 - Jun 2018 and Jul 2018 - Jun 2019



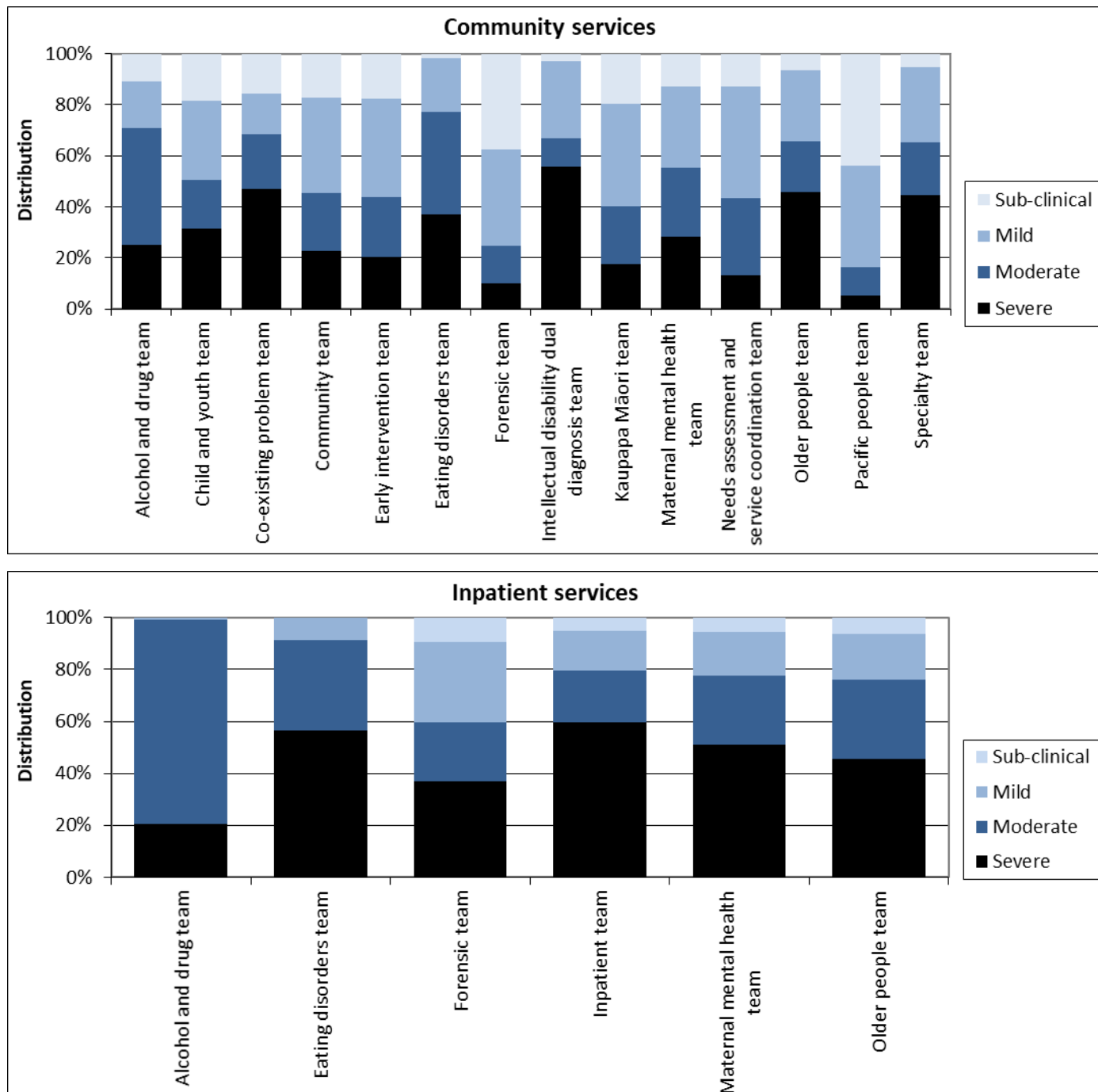
Notes: Index of Severity: Sub clinical = all items <2, mild = at least one item >1 and all items <3, moderate = at least one item >=3, severe = at least 2 items >=3 using first 10 items. Community discharge does not include discharge to an inpatient unit.

Interpretation: Darker bars indicate higher overall level of severity. More positive outcome shown by larger decrease in darker sections of bar between admission and discharge.

2. Other measures of service activity

This section presents other information related to data collected in PRIMHD that may be helpful for understanding how teams are operating. This includes information relevant to caseload intensity and team activity.

Graph 7: Index of Severity for HoNOS (admission and review collections) by team, New Zealand, Jul 2018 - Jun 2019



Notes: Only data related to collection at admission and review is included so that results reflect the severity of service users during their engagement with the service. Index of Severity: Sub clinical = all items <2, mild = at least one item >1 and all items <3, moderate = at least one item >=3, severe = at least 2 items >=3 using first 10 items.

Interpretation: This graph gives an impression of the overall severity of the caseload for different teams at admission. The longer the darker bar, the higher the overall severity of the team's caseload.

Table 7: Index of Severity for HoNOS by collection type and team, New Zealand, Jul 2018 - Jun 2019

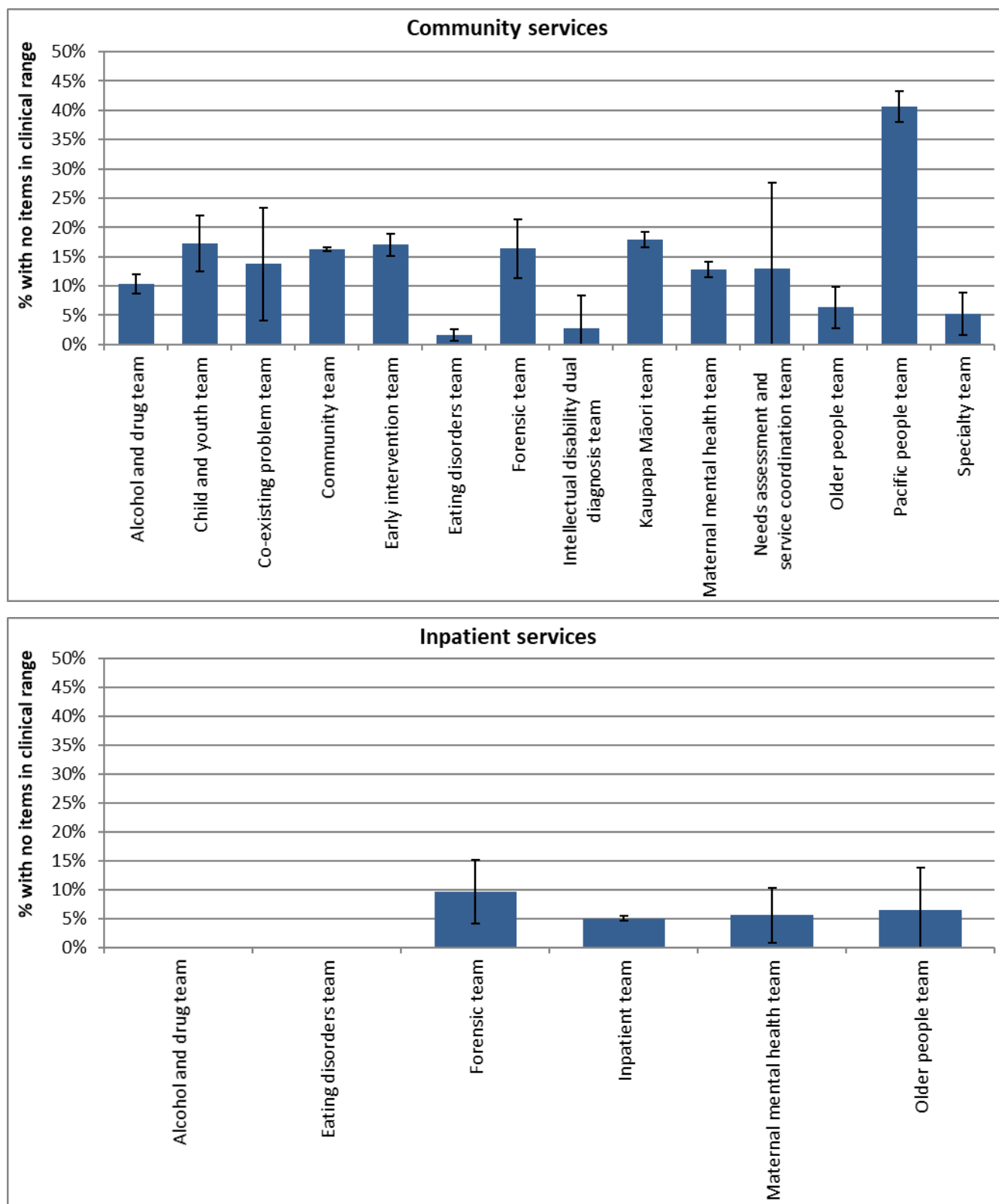
Team type	Assessment only					Admission					Review					Discharge				
	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N
Community services																				
Alcohol and drug team	5%	14%	32%	49%	437	3%	14%	46%	37%	600	16%	21%	46%	16%	789	34%	34%	22%	11%	322
Child and youth team	2%	26%	28%	44%	43	4%	19%	35%	42%	52	23%	34%	15%	28%	191	20%	56%	14%	10%	79
Co-existing problem team						5%	5%	15%	75%	20	23%	23%	26%	29%	31					
Community team	6%	24%	27%	43%	10,319	8%	27%	26%	38%	12,896	21%	41%	21%	17%	36,750	38%	35%	17%	10%	7,153
Early intervention team						12%	34%	25%	29%	331	19%	40%	23%	18%	1,265	35%	39%	19%	7%	139
Eating disorders team	0%	19%	38%	43%	42	0%	14%	43%	43%	302	3%	27%	38%	32%	387	29%	37%	21%	13%	174
Forensic team	41%	31%	19%	10%	59	26%	38%	19%	17%	100	47%	38%	11%	4%	114	75%	16%	7%	2%	128
Intellectual disability dual diagnosis team											3%	29%	13%	55%	31					
Kaupapa Māori team	8%	28%	25%	39%	337	8%	35%	25%	31%	502	22%	41%	22%	15%	2,935	32%	38%	17%	14%	295
Maternal mental health team	20%	43%	18%	19%	197	6%	24%	30%	40%	1,029	18%	38%	25%	19%	1,351	49%	36%	10%	5%	871
Older people team	16%	23%	13%	48%	31	3%	28%	24%	46%	68	8%	28%	18%	46%	122	10%	22%	24%	44%	41
Pacific people team						28%	36%	22%	14%	172	46%	40%	10%	4%	1,216	72%	20%	5%	3%	87
Specialty team	6%	15%	26%	53%	163	2%	26%	16%	55%	85	9%	34%	25%	31%	67	30%	33%	23%	13%	30
Total	7%	24%	27%	43%	11,654	8%	27%	27%	38%	16,172	21%	40%	22%	17%	45,289	39%	35%	16%	10%	9,341

Team type	Assessment only					Admission					Review					Discharge				
	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N
Inpatient services																				
Alcohol and drug team						0%	1%	79%	21%	258						1%	4%	81%	14%	238
Eating disorders team						0%	5%	36%	59%	22										
Forensic team						10%	30%	20%	40%	20	10%	31%	23%	36%	94	64%	32%	0%	4%	28
Inpatient team						4%	14%	20%	63%	8,664	19%	28%	22%	32%	1,093	32%	38%	17%	12%	8,293
Maternal mental health team						5%	16%	28%	52%	87						23%	38%	23%	15%	65
Older people team						7%	17%	27%	49%	41						13%	34%	26%	26%	38
Total						4%	13%	21%	62%	9,100	18%	28%	22%	32%	1,199	31%	37%	19%	12%	8,689

Notes: Sub = sub clinical, Mild = mild, Mod = moderate, Sev = severe on Index of Severity. Only admission collection data is included so that results reflect the severity of service users during their engagement with the service. Index of Severity: Sub clinical = all items <2, mild = at least one item >1 and all items <3, moderate = at least one item >=3, severe = at least 2 items >=3 using first 10 items. Community discharge does not include discharge to an inpatient unit.

Interpretation: Larger percentages in the columns to the right for each type of collection, the higher the overall severity of the team's caseload.

Graph 8: Collections with no HoNOS items in clinical range, New Zealand, Jul 2018 - Jun 2019



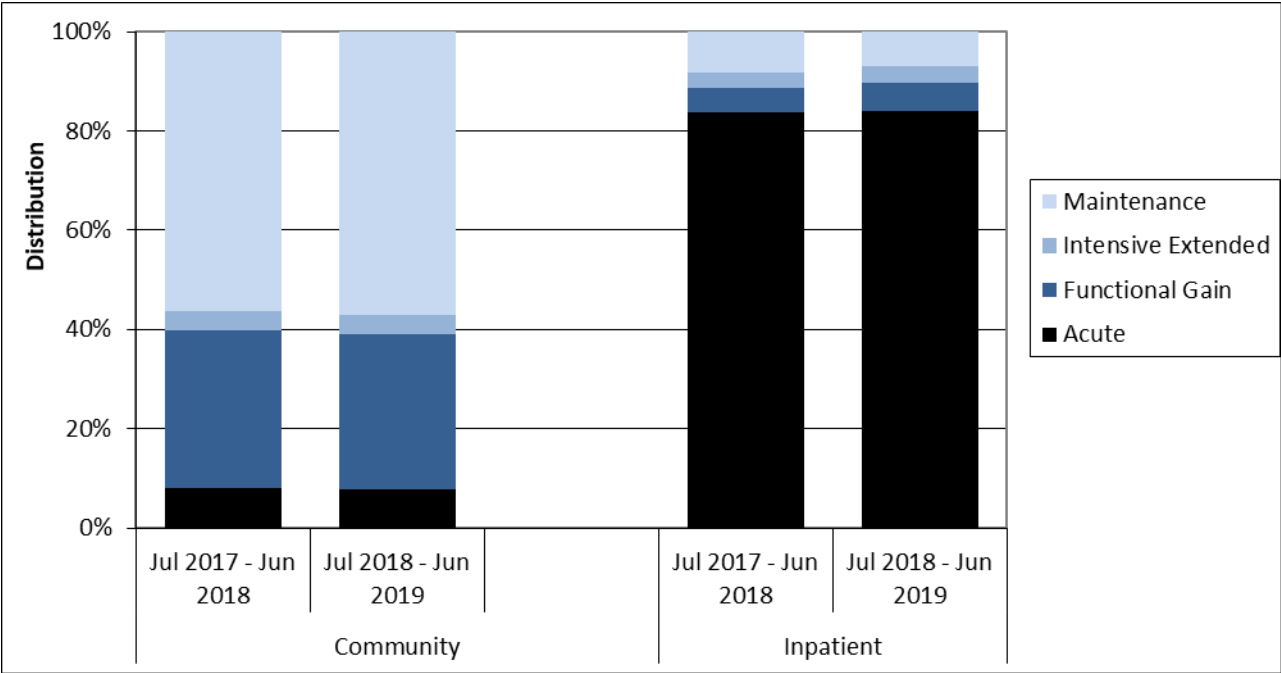
Notes: Includes admission and review collections. Shows percentage of service users with all HoNOS items less than two, ie no HoNOS items in the clinical range. **Interpretation:** There are a variety of reasons that may make it appropriate for service users to remain in the service even though they show no HoNOS items in the clinical range. However, teams showing a larger or substantial percentage of service users with no HoNOS items in the clinical range could benefit from reviewing these cases to ensure that the service remains appropriate for this service user.

Table 8: Collections with no HoNOS items in clinical range, New Zealand, Jul 2018 - Jun 2019

Team type	Number of collections with no items in clinical range	Percentage with no items in clinical range
Community services		
Alcohol and drug team	144	10%
Child and youth team	42	17%
Co-existing problem team	7	14%
Community team	8,100	16%
Early intervention team	272	17%
Eating disorders team	11	2%
Forensic team	35	16%
Intellectual disability dual diagnosis team	1	3%
Kaupapa Māori team	617	18%
Maternal mental health team	305	13%
Needs assessment and service coordination team	3	13%
Older people team	12	6%
Pacific people team	564	41%
Specialty team	8	5%
Total	10,125	16%
Inpatient services		
Alcohol and drug team	0	0%
Eating disorders team	0	0%
Forensic team	11	10%
Inpatient team	488	5%
Maternal mental health team	5	6%
Older people team	3	7%
Total	507	5%

Notes: For further information see notes for Graph 8.

Graph 9: Focus of care categories, New Zealand, Jul 2017 - Jun 2018 and Jul 2018 - Jun 2019



Notes: Data from review and discharge collections.

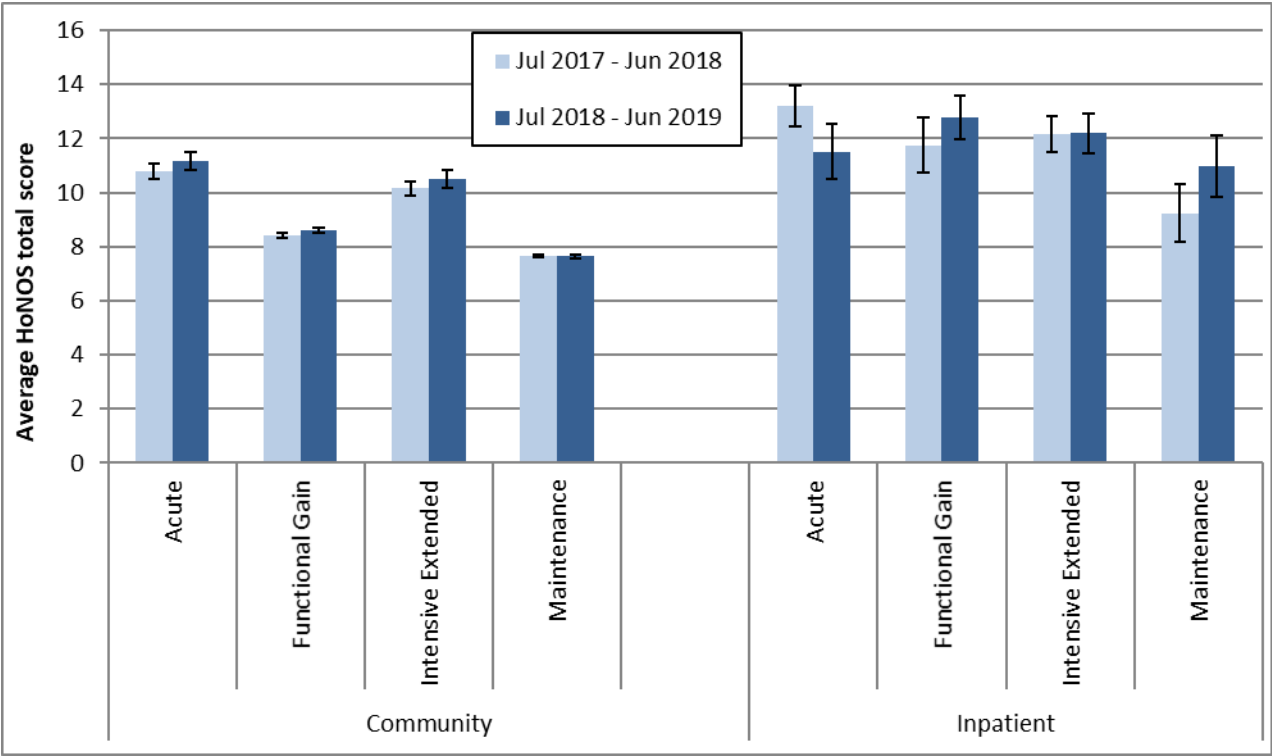
Interpretation: Darker bars indicate more intensive involvement in care, so a longer or darker bar in general suggests more intensive working. A longer functional gain bar and shorter maintenance bar potentially suggests more recovery focused ways of working.

Table 9: Focus of care categories by team, New Zealand, Jul 2017 - Jun 2018 and Jul 2018 - Jun 2019

Team type	Acute		Functional gain		Intensive extended		Maintenance		Number of collections	
	Last period	This period	Last period	This period	Last period	This period	Last period	This period	Last period	This period
Community services										
Alcohol and drug team	11%	7%	37%	42%	1%	1%	51%	50%	1,086	1,123
Child and youth team	5%	4%	29%	36%	10%	7%	55%	52%	287	265
Co-existing problem team	20%	17%	18%	11%	0%	6%	61%	67%	49	36
Community team	8%	8%	31%	30%	4%	4%	57%	57%	44,506	40,655
Early intervention team	4%	5%	47%	48%	4%	3%	45%	45%	1,089	1,302
Eating disorders team	6%	6%	67%	62%	15%	12%	12%	19%	538	580
Forensic team	6%	5%	3%	5%	4%	1%	88%	89%	340	154
Intellectual disability dual diagnosis team	3%	3%	3%	0%	0%	0%	93%	97%	30	30
Kaupapa Māori team	6%	5%	17%	17%	2%	3%	75%	75%	2,909	2,947
Maternal mental health team	13%	7%	50%	55%	2%	2%	36%	35%	2,469	2,120
Needs assessment and service coordination team		5%		25%		5%		65%		20
Older people team	13%	10%	12%	13%	4%	1%	71%	76%	100	98
Pacific people team	1%	1%	19%	14%	0%	0%	80%	85%	879	1,061
Specialty team	3%	11%	29%	25%	16%	13%	51%	51%	170	101
Total	8%	8%	32%	31%	4%	4%	56%	57%	54,506	50,524
Inpatient services										
Alcohol and drug team	99%	100%	1%	0%	0%	0%	0%	0%	234	234
Forensic team	73%	11%	15%	11%	0%	65%	12%	14%	26	114
Inpatient team	16%	84%	9%	6%	37%	3%	39%	7%	90	8,077
Maternal mental health team	84%	92%	5%	0%	3%	0%	8%	8%	8,992	64
Older people team	65%	89%	3%	0%	0%	0%	32%	11%	34	28
Total	84%	84%	5%	6%	3%	3%	8%	7%	9,398	8,546

Notes: For further information see notes for Graph 9.

Graph 10: HoNOS total score (review collections) by focus of care, New Zealand, Jul 2017 - Jun 2018 and Jul 2018 - Jun 2019



Notes: This data is just for review collections.

Interpretation: Points are significantly different if error bars don't overlap. A general downward trend in scores from acute to maintenance focus of care might be expected.

Table 10: HoNOS total score (review collections) by focus of care by team, New Zealand, Jul 2018 - Jun 2019

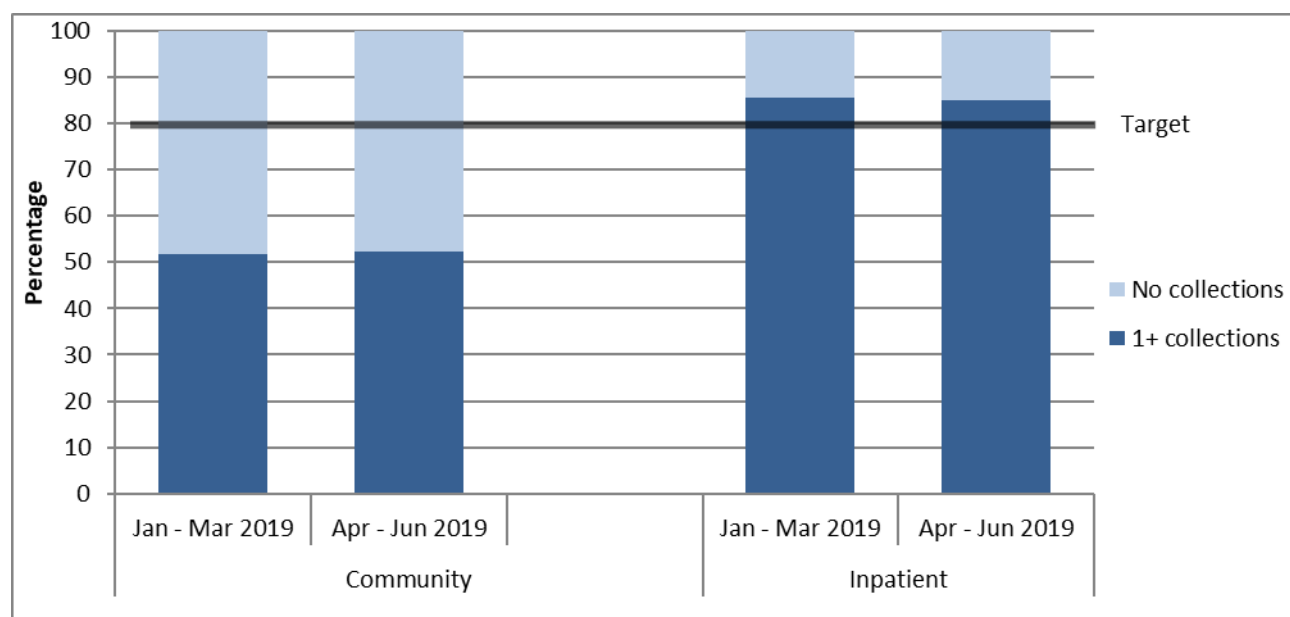
Team type	Acute			Functional gain			Intensive extended			Maintenance		
	N	Mean	CI	N	Mean	CI	N	Mean	CI	N	Mean	CI
Community services												
Alcohol and drug team	44	12.0	10.4-13.5	182	8.3	7.6-9.0				524	5.2	4.9-5.6
Child and youth team				69	9.9	8.4-11.4				93	7.2	6.1-8.2
Co-existing problem team										20	8.9	6.0-11.8
Community team	999	11.1	10.7-11.5	9,518	8.6	8.5-8.7	1,350	10.4	10.1-10.7	20,195	7.8	7.7-7.9
Early intervention team	28	14.9	12.1-17.7	524	8.4	7.9-8.8	32	11.3	8.6-14.0	476	7.9	7.4-8.5
Eating disorders team				213	10.6	9.7-11.4	50	12.4	10.2-14.6	86	9.4	8.1-10.6
Forensic team										101	7.6	6.6-8.6
Intellectual disability dual diagnosis team										25	10.6	8.8-12.5
Kaupapa Māori team	70	12.8	11.4-14.1	419	9.5	8.8-10.1	73	9.6	8.3-11.0	2,000	8.1	7.8-8.3
Maternal mental health team	78	7.6	6.4-8.8	716	7.9	7.5-8.2	25	7.4	5.8-8.9	430	6.0	5.6-6.3
Older people team										55	8.6	7.2-9.9
Pacific people team				113	4.9	4.1-5.7				835	4.2	4.0-4.5
Specialty team										32	9.3	7.3-11.2
Total	1,253	11.2	10.8-11.5	11,804	8.6	8.5-8.7	1,569	10.5	10.2-10.8	24,894	7.6	7.6-7.7
Inpatient services												
Forensic team							72	13.4	12.2-14.6			
Inpatient team	262	11.5	10.4-12.5	196	12.9	12.1-13.7	142	11.5	10.6-12.4	129	11.4	10.2-12.6
Total	273	11.5	10.5-12.5	201	12.8	12.0-13.6	215	12.2	11.5-12.9	141	11.0	9.8-12.1

Notes: For further information see notes for Graph 10.

3. Collection completion and validity

This section presents information about the completeness and validity of the data on which the remainder of this report is based. It also shows the current targets for the variables presented.

Graph 11: Percentage of service users with at least one collection during the period, New Zealand, Jan – Mar 2019 and Apr – Jun 2019 (18 to 64 years)

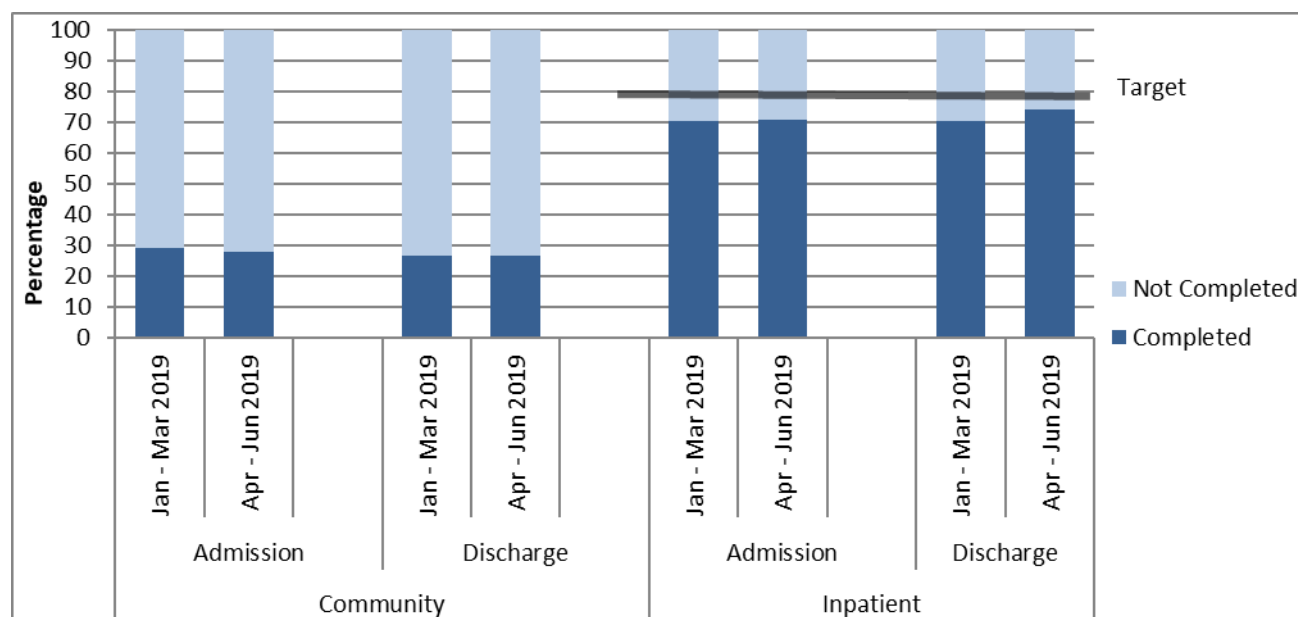


Notes: Community compliance is affected by crisis teams completing triage or brief assessment type activity which is not a comprehensive assessment.

Interpretation: The longer the dark part of the bar, the more completely the data set includes all service users, and the more meaningful and representative the graphs, tables, and analyses using this data will be. The data is approximate due to movements of service users between teams and similar variations; however, it does provide a reasonably accurate representation of completion of measures. The data only includes valid collections.

Target: To meet or exceed the target shown on the graph for the percentage of service users with at least one collection within the period.

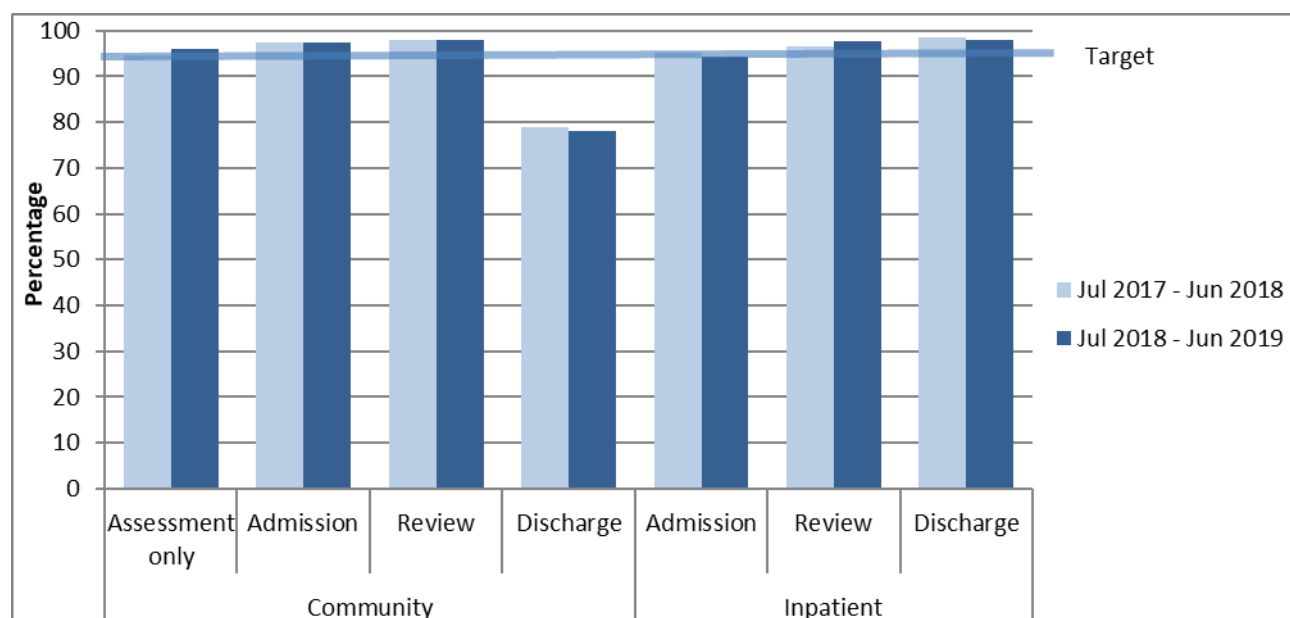
Graph 12: Percentage of service users with admission and discharge collections completed, New Zealand, Jan – Mar 2019 and Apr – Jun 2019 (18 to 64 years)



Notes: Community compliance is affected by crisis teams completing triage or brief assessment type activity which is not a comprehensive assessment.

Interpretation: The longer the dark bar, the larger the percentage of admission and discharge that had the relevant data collection type. Data is approximate due to movements of service users between teams and similar variations; however, it does provide a reasonably accurate representation of completion of measures. The data only includes valid collections.

Graph 13: Percentage of valid collections, HoNOS, New Zealand, Jul 2017 - Jun 2018 and Jul 2018 - Jun 2019



Notes: Valid = Two or fewer of the 12 items scored as unknown or missing. Discharge exclude collection types for lost to care, discharge dead and brief episode of care. Collection in drug and alcohol teams is not required, therefore AOD data is excluded.

Interpretation: The longer the dark lines, the higher the percentage of valid scores.

Target: Aim for 95% valid collections.

Table 13: Invalid collections by team, by HoNOS item, New Zealand, Jul 2018 - Jun 2019

Team type	% Invalid			Number of invalid ratings by HoNOS item												Total number
	Adm	Rev	Dch	1	2	3	4	5	6	7	8	9	10	11	12	
Community services																
Child and youth team	5%	2%	13%	21	22	24	21	22	24	21	21	21	21	22	22	397
Community team	3%	2%	22%	4,039	4,193	4,858	4,261	4,252	4,281	4,316	4,479	4,388	4,391	4,631	4,764	75,172
Early intervention team	5%	2%	19%	110	118	119	118	115	118	112	124	108	112	130	112	2,023
Eating disorders team	1%	2%	7%	24	28	28	28	24	26	33	26	29	28	31	30	1,011
Forensic team	1%	2%	44%	116	117	127	116	116	119	118	118	122	121	129	130	538
Intellectual disability dual diagnosis team		0%		5	5	5	5	6	5	5	6	5	5	6	5	54
Kaupapa Māori team	3%	3%	15%	163	165	217	177	172	182	174	190	183	183	183	179	4,414
Maternal mental health team	2%	2%	24%	364	361	390	364	367	363	362	363	365	367	367	370	3,960
Older people team	4%	1%	16%	9	21	11	11	10	14	15	23	13	12	14	15	293
Pacific people team	4%	2%	19%	46	53	54	49	62	56	52	63	61	81	69	95	1,606
Specialty team	7%	11%	12%	17	22	22	22	19	21	20	19	66	76	83	89	444
Total	3%	2%	22%	4,914	5,105	5,855	5,172	5,165	5,209	5,228	5,432	5,361	5,397	5,666	5,811	89,948

Team type	% Invalid			Number of invalid ratings by HoNOS item												Total number
	Adm	Rev	Dch	1	2	3	4	5	6	7	8	9	10	11	12	
Inpatient services																
Eating disorders team	0%			0	0	0	0	0	0	0	0	0	0	0	0	40
Forensic team	17%	0%	0%	1	2	2	2	0	4	2	2	2	2	2	4	145
Inpatient team	6%	2%	2%	195	265	661	418	313	316	399	612	568	488	850	1,141	18,460
Maternal mental health team	4%		9%	5	8	14	9	9	10	9	11	9	8	12	12	164
Older people team	15%		7%	3	6	5	3	3	8	5	7	7	5	22	19	94
Total	6%	2%	2%	204	281	682	432	325	338	415	632	586	503	886	1,177	18,923

Notes: Percentage of invalid collections = the percentage of collections that had three or more of the 12 items scored as unknown or missing. Number of invalid ratings by HoNOS item = for each of the HoNOS items, the number of collections for which that item was unknown or missing. Discharge excludes collection types for lost to care, deceased and brief episode of care. Collection in drug and alcohol teams is not required, therefore AOD data is excluded.

Interpretation: The lower the percentage of invalid collections by team, the higher the percentage of valid scores. The lower the number of invalid collections by HoNOS item, the more collections that have valid data on that HoNOS item.

Target: Aim for 95% valid collections (5% invalid collections) or better. Aim for as few invalid items as possible, with all items having a similar validity rate.