

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. **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.
2. **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.
3. **Service related information:** This provides information about the services, such as the overall severity of service users who use different services.

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.

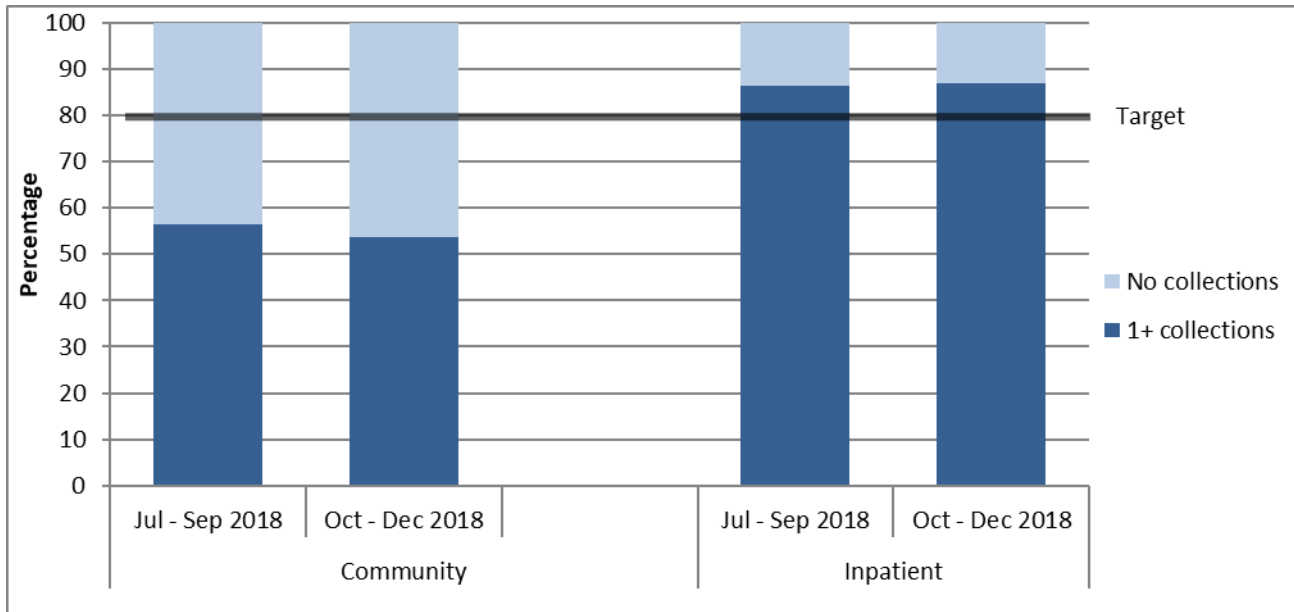
Data for graphs 1 and 2 was extracted 12 April 2019 from PRIMHD by the Ministry of Health and formatted by Te Pou. The data for graphs and tables 3 to 12 was extracted 9 April 2019 from PRIMHD by the Ministry of Health, then analysed and formatted by Te Pou.

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

1. 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 1: Percentage of service users with at least one collection during the period, New Zealand, Jul – Sep 2018 and Oct – Dec 2018 (18 to 64 years)

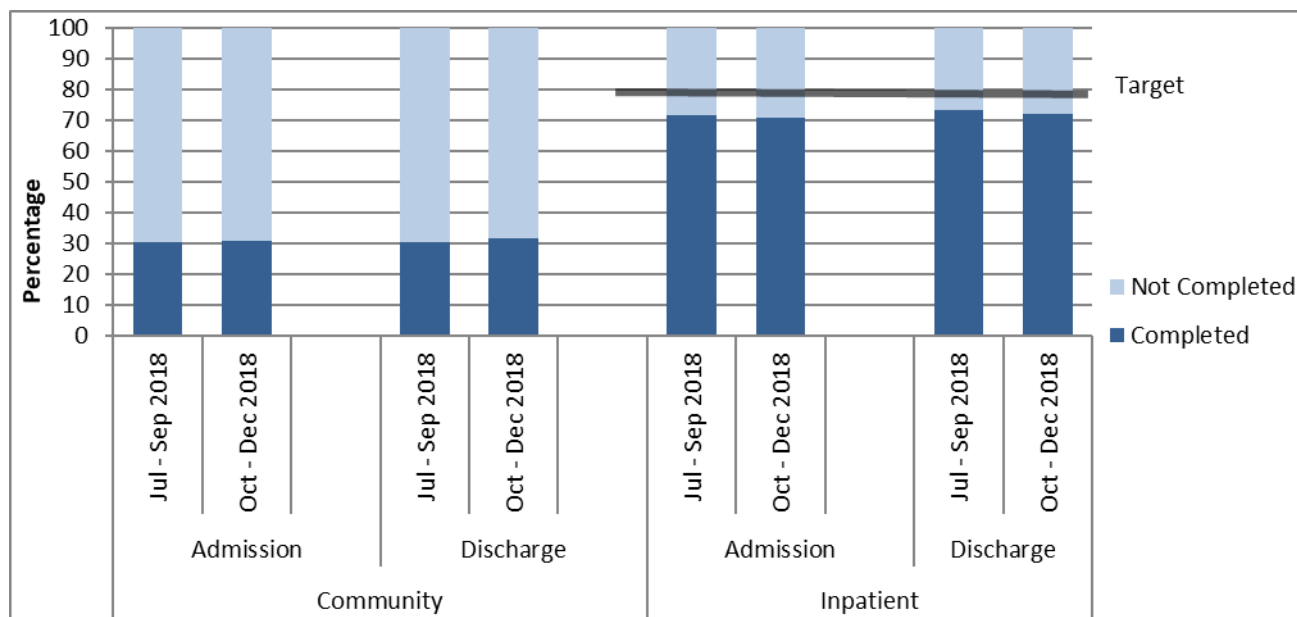


Notes: Community compliance is affected by crisis teams completing triage or brief assessment type activity which is not a comprehensive assessment.

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.

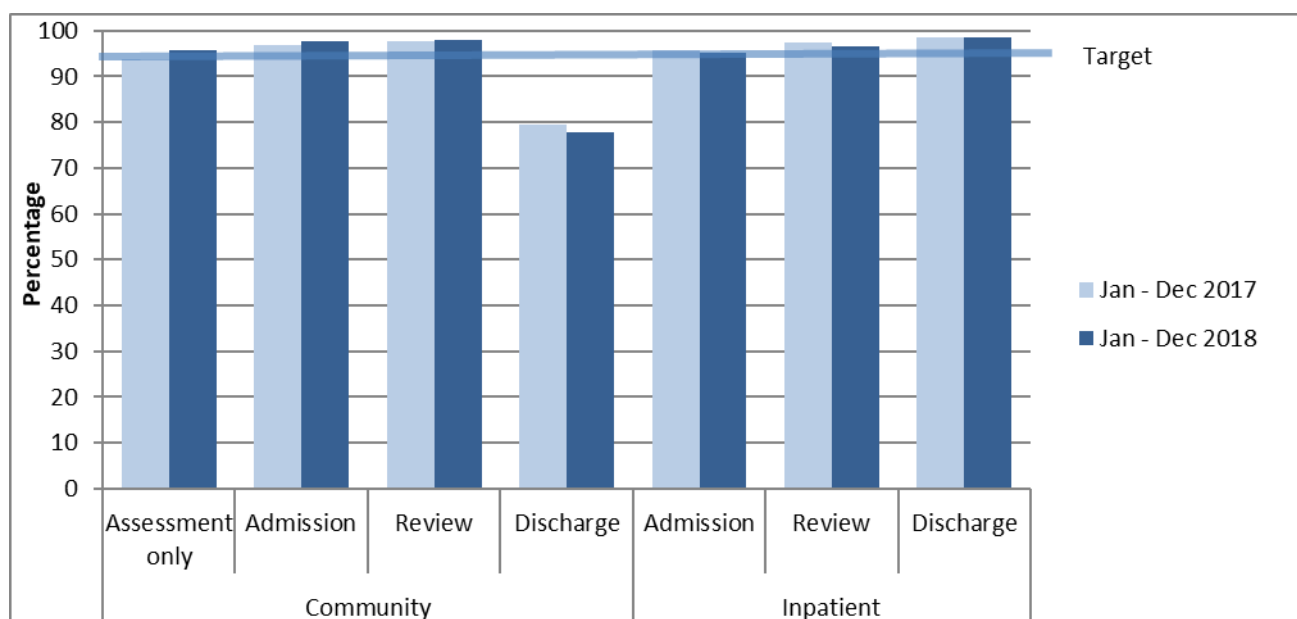
Graph 2: Percentage of service users with admission and discharge collections completed, New Zealand, Jul – Sep 2018 and Oct – Dec 2018 (18 to 64 years)



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 3: Percentage of valid collections, HoNOS, New Zealand, Jan - Dec 2017 and Jan - Dec 2018



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 3: Invalid collections by team, by HoNOS item, New Zealand, Jan - Dec 2018

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	3%	5%	17%	37	38	38	38	38	40	38	38	37	38	39	40	520
Community team	2%	2%	23%	4,015	4,136	4,791	4,185	4,218	4,248	4,253	4,351	4,283	4,324	4,597	4,656	72,408
Early intervention team	3%	2%	17%	80	86	98	88	88	92	82	88	79	83	119	84	1,772
Eating disorders team	1%	1%	12%	34	33	37	35	34	32	33	32	34	33	38	34	788
Forensic team	7%	1%	37%	101	100	115	101	101	103	104	101	106	107	115	114	542
Intellectual disability dual diagnosis team		0%		5	5	5	5	7	6	5	5	5	5	5	5	60
Kaupapa Māori team	3%	3%	21%	205	209	251	216	220	223	216	229	220	227	223	231	4,279
Maternal mental health team	2%	2%	21%	321	325	345	329	327	325	326	325	329	328	321	324	4,136
Older people team	3%	1%	7%	7	15	7	9	8	12	12	20	8	8	13	12	380
Pacific people team	2%	2%	27%	54	54	61	54	58	61	58	75	65	81	72	90	1,602
Specialist psychotherapy team				0	0	0	0	0	0	0	0	0	0	0	0	20
Specialty team	3%			2	3	4	6	4	2	2	10	32	39	61	62	332
Total	2%	2%	22%	4,861	5,004	5,752	5,066	5,103	5,144	5,129	5,274	5,198	5,273	5,603	5,652	86,858

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	1	0	1	0	36
Forensic team		0%		0	1	1	0	0	4	3	1	0	1	0	1	138
Inpatient team	5%	3%	1%	141	225	564	374	270	269	370	574	488	372	727	1,002	18,972
Maternal mental health team	11%		5%	11	12	15	13	11	12	13	12	15	15	17	17	142
Older people team	14%		8%	4	6	8	4	4	11	7	8	7	5	16	12	82
Total	5%	3%	1%	156	244	588	391	285	296	393	595	511	393	761	1,032	19,376

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.

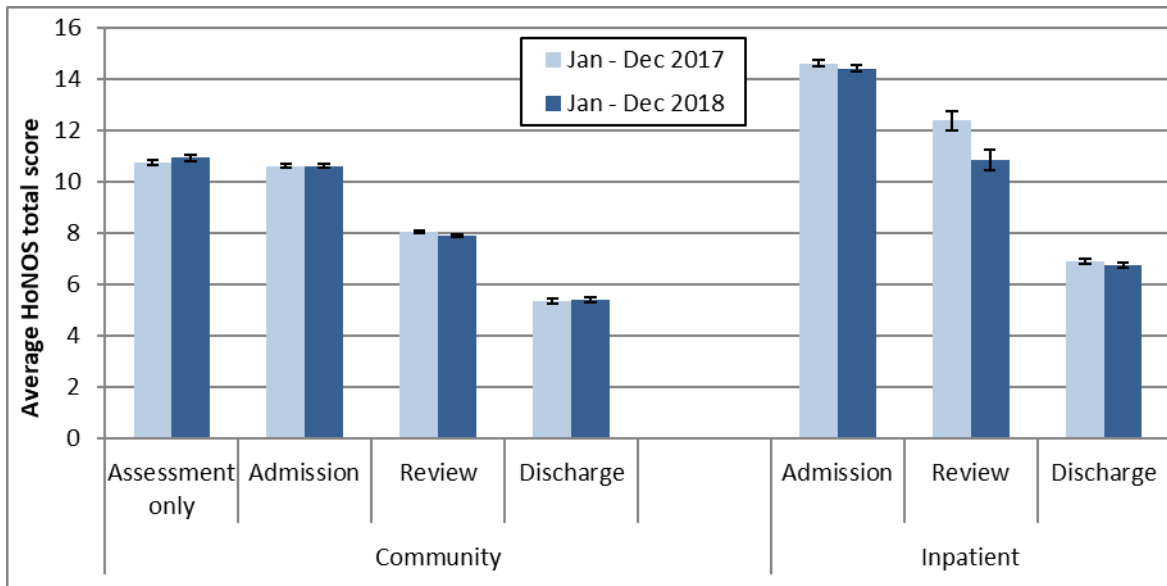
Interpretation: The lower the percentage of invalid collections by team, the higher the percentage of valid scores. The lower the number of invalid collections by HoNOS item, the more collections that have valid data on that HoNOS item.

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.

2. 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 4 show results from HoNOS total scores. Graphs and Tables 5 to 7B show results related to the percentage of HoNOS items in the clinical range. Graph and Table 8 show results from the Index of Severity derived from HoNOS scores.

Graph 4: Average HoNOS total score (12 items) by collection type, New Zealand, Jan - Dec 2017 and Jan - Dec 2018



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 4: Average HoNOS total score (12 items), by collection type and team, New Zealand, Jan - Dec 2018

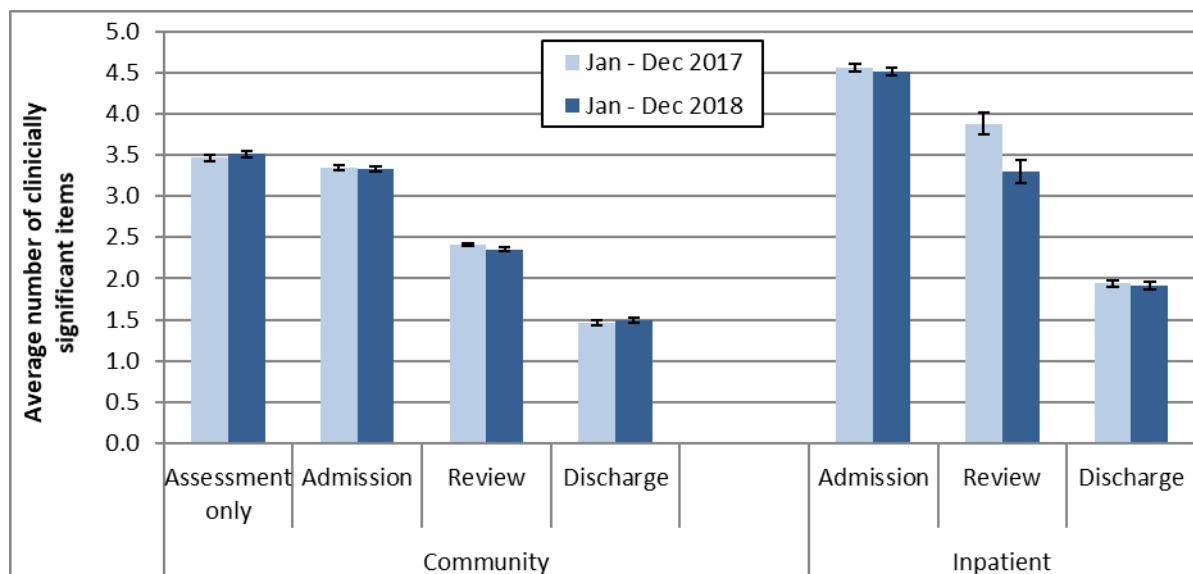
Team type	Assessment only			Admission			Review			Discharge		
	N	Mean	CI	N	Mean	CI	N	Mean	CI	N	Mean	CI
Community services												
Alcohol and drug team	429	12.1	11.6-12.7	597	10.3	9.9-10.7	827	6.4	6.1-6.8	282	5.1	4.5-5.6
Child and youth team	40	11.3	9.5-13.1	65	10.5	9.2-11.7	277	9.6	8.9-10.2	92	5.3	4.5-6.2
Co-existing problem team				25	15.8	13.5-18.0	33	10.0	8.0-12.1			
Community team	10,020	10.9	10.8-11.1	13,014	10.7	10.6-10.8	34,540	8.0	7.9-8.1	7,156	5.5	5.4-5.6
Early intervention team				325	9.9	9.3-10.6	1,099	8.1	7.8-8.5	120	5.8	4.9-6.6
Eating disorders team	41	9.2	7.7-10.7	233	11.0	10.4-11.7	274	10.0	9.3-10.7	158	5.5	4.9-6.2
Forensic team	42	8.2	5.8-10.7	97	10.3	9.2-11.4	138	7.7	6.9-8.4	128	6.0	5.2-6.8
Intellectual disability dual diagnosis team							39	11.5	9.7-13.2			
Kaupapa Māori team	265	12.0	11.3-12.7	504	10.8	10.3-11.4	2,885	8.3	8.0-8.5	256	6.6	5.9-7.3
Maternal mental health team	214	6.9	6.1-7.6	1,078	9.2	8.9-9.5	1,482	7.0	6.8-7.3	901	3.8	3.6-4.1
Older people team	25	11.7	8.9-14.4	110	13.0	11.8-14.1	165	11.1	10.3-11.9	46	9.4	8.0-10.9
Pacific people team				184	6.2	5.4-6.9	1,225	4.5	4.3-4.7	84	2.3	1.6-2.9
Specialty team	130	12.0	10.7-13.2	140	17.1	15.7-18.5						
Total	11,240	10.9	10.8-11.0	16,390	10.6	10.5-10.7	43,023	7.9	7.8-7.9	9,258	5.4	5.3-5.5

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	7.6	7.3-8.0				238	5.8	5.4-6.1
Eating disorders team				21	10.8	9.0-12.6						
Forensic team							106	12.2	11.0-13.4			
Inpatient team				9,058	14.6	14.5-14.8	1,052	10.7	10.3-11.2	8,589	6.7	6.6-6.9
Maternal mental health team				71	11.0	9.8-12.2				54	7.3	6.0-8.7
Older people team				32	14.4	11.0-17.8				37	11.6	9.1-14.1
Total				9,461	14.4	14.3-14.5	1,168	10.9	10.5-11.3	8,948	6.7	6.6-6.8

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 5: Average number of clinically significant HoNOS items by collection type, New Zealand, Jan - Dec 2017 and Jan - Dec 2018



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 5: Average number of clinically significant HoNOS items by collection type and team, New Zealand, Jan - Dec 2018

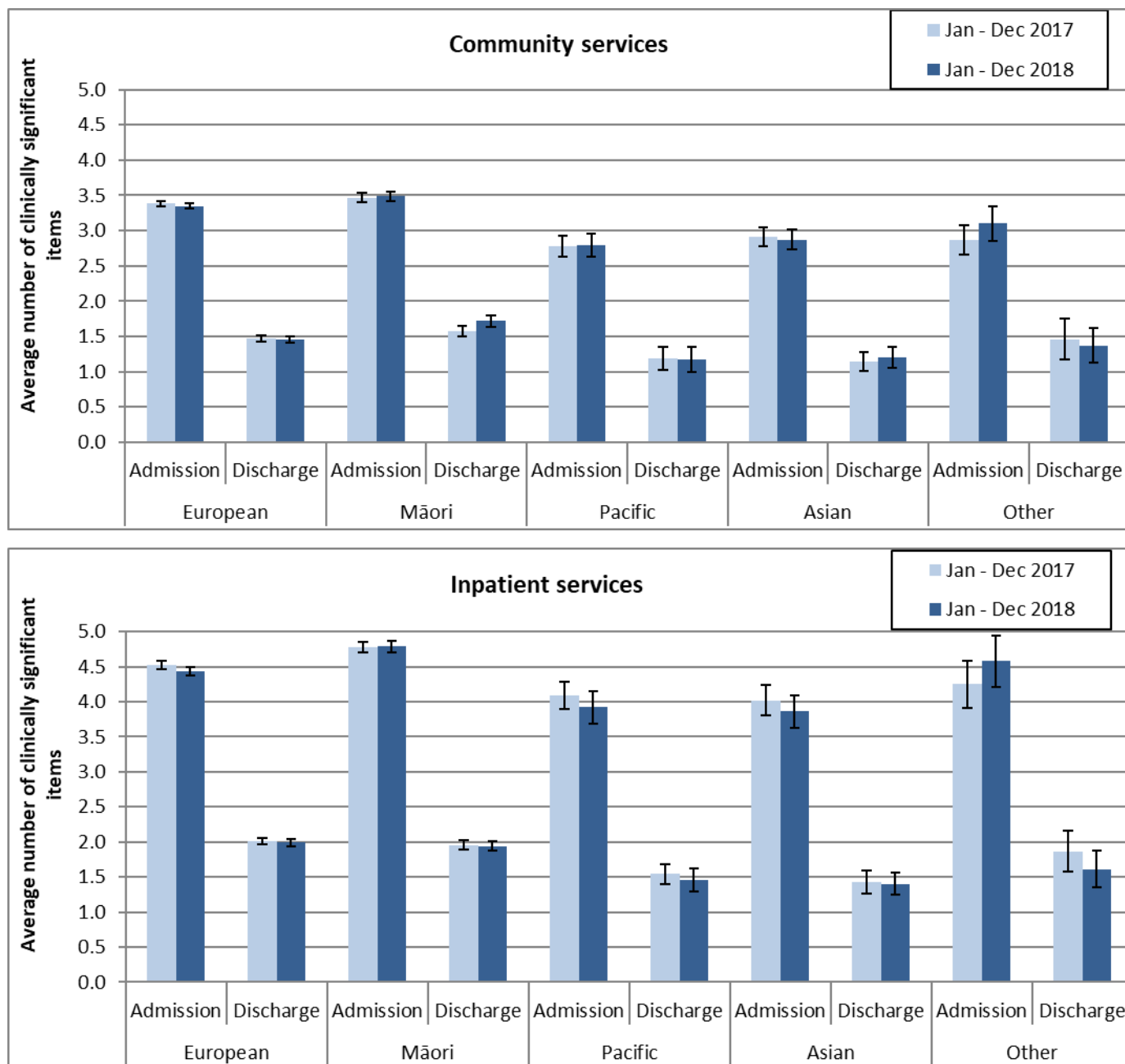
Team type	Assessment only			Admission			Review			Discharge		
	N	Mean	CI	N	Mean	CI	N	Mean	CI	N	Mean	CI
Community service												
Alcohol and drug team	429	3.9	3.7-4.1	597	3.2	3.0-3.4	827	1.9	1.8-2.0	282	1.4	1.2-1.6
Child and youth team	40	3.8	3.1-4.4	65	3.4	2.9-3.9	277	2.9	2.6-3.2	92	1.5	1.2-1.9
Co-existing problem team				25	5.0	4.1-5.9	33	3.2	2.4-4.0			
Community team	10,020	3.5	3.5-3.6	13,014	3.4	3.3-3.4	34,540	2.4	2.4-2.4	7,156	1.5	1.5-1.6
Early intervention team				325	2.9	2.7-3.2	1,099	2.4	2.3-2.6	120	1.7	1.4-2.1
Eating disorders team	41	3.1	2.5-3.6	233	3.3	3.1-3.6	274	3.0	2.8-3.3	158	1.6	1.4-1.9
Forensic team	42	2.2	1.5-3.0	97	2.7	2.4-3.1	138	2.1	1.8-2.3	128	1.4	1.1-1.6
Intellectual disability dual diagnosis team							39	3.8	3.2-4.4			
Kaupapa Māori team	265	3.9	3.6-4.1	504	3.4	3.2-3.5	2,885	2.4	2.3-2.5	256	1.8	1.5-2.0
Maternal mental health team	214	2.2	1.9-2.5	1,078	2.9	2.8-3.0	1,482	2.2	2.1-2.3	901	1.0	0.9-1.1
Older people team	25	3.4	2.6-4.2	110	4.1	3.7-4.6	165	3.5	3.2-3.8	46	2.8	2.3-3.2
Pacific people team				184	1.7	1.5-2.0	1,225	1.1	1.1-1.2	84	0.4	0.2-0.6
Specialty team	130	3.4	3.1-3.8	140	4.8	4.4-5.2						
Total	11,240	3.5	3.5-3.5	16,390	3.3	3.3-3.4	43,023	2.4	2.3-2.4	9,258	1.5	1.5-1.5

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	2.0	1.8-2.1				238	1.6	1.5-1.8
Eating disorders team				21	3.2	2.6-3.7						
Forensic team							106	3.7	3.3-4.2			
Inpatient team				9,058	4.6	4.5-4.6	1,052	3.2	3.1-3.4	8,589	1.9	1.9-2.0
Maternal mental health team				71	3.3	2.9-3.7				54	2.1	1.7-2.6
Older people team				32	4.2	3.1-5.2				37	3.6	2.8-4.5
Total				9,461	4.5	4.5-4.6	1,168	3.3	3.2-3.4	8,948	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 6: Average number of clinically significant HoNOS items at admission and discharge by ethnic group, New Zealand, Jan - Dec 2017 and Jan - Dec 2018

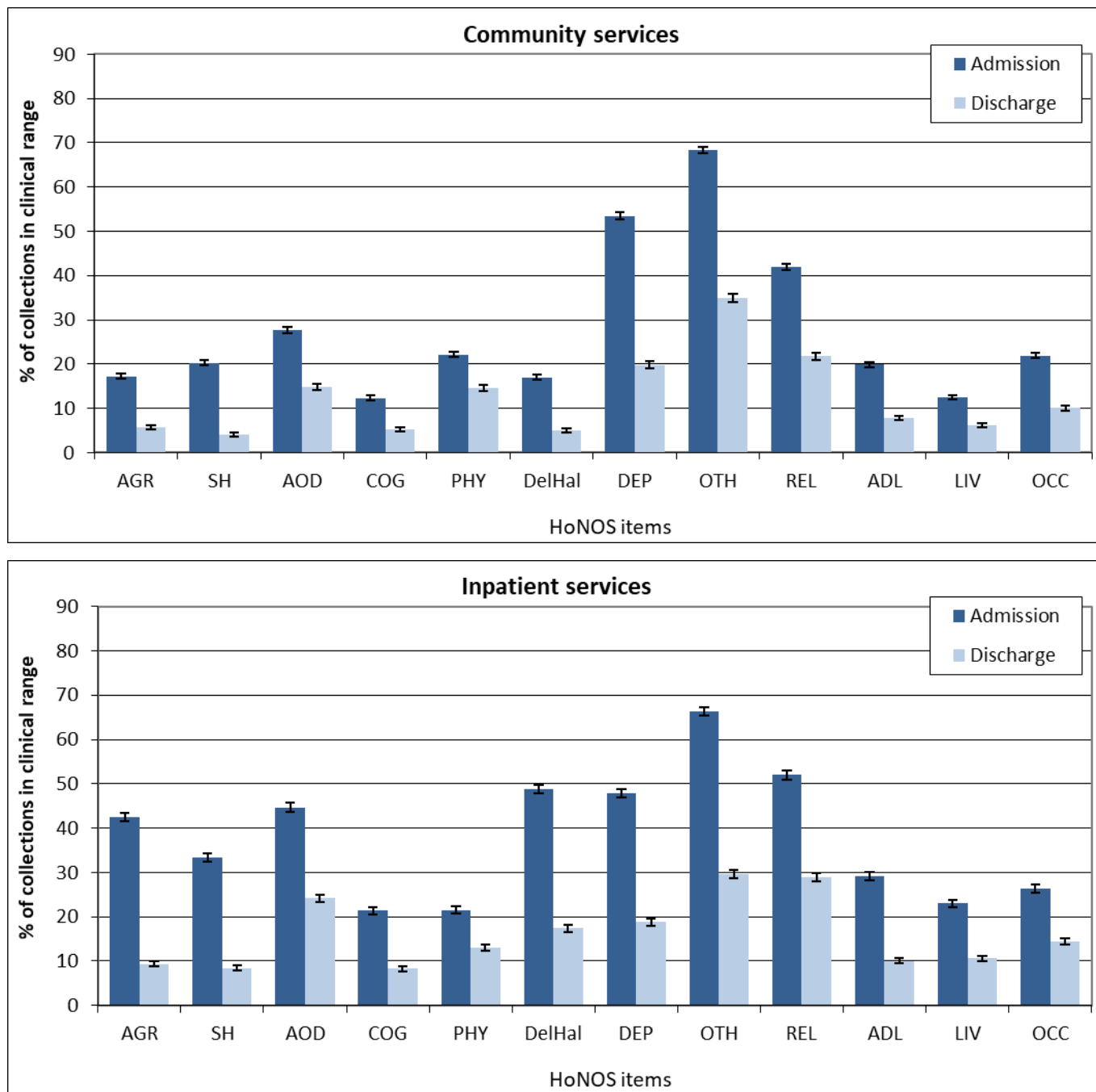


Notes: Average number of HoNOS items in the clinical range (2, 3 or 4). Community discharge does not include discharge to an inpatient unit.

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 7a: Percentage of collections in clinical range on each HoNOS item, New Zealand, Jan - Dec 2018



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 7a: Percentage of collections in clinical range on each HoNOS item (admission and discharge collections) by team, New Zealand, Jan - Dec 2018

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	597	282	14%	5%	13%	2%	88%	47%	9%	3%	23%	13%	3%	1%
Child and youth team	65	92	18%	3%	45%	2%	28%	13%	9%	7%	15%	9%	8%	3%
Co-existing problem team	25		60%		44%		68%		16%		24%		20%	
Community team	13,003	7,145	18%	6%	23%	5%	27%	15%	13%	5%	22%	16%	18%	5%
Early intervention team	324	120	12%	5%	10%	7%	26%	20%	20%	9%	9%	8%	48%	18%
Eating disorders team	233	158	8%	3%	15%	8%	13%	9%	11%	3%	36%	10%	12%	3%
Forensic team	97	128	15%	2%	7%	0%	42%	7%	9%	2%	7%	5%	5%	6%
Kaupapa Māori team	504	256	17%	8%	12%	5%	33%	27%	15%	5%	20%	14%	29%	8%
Maternal mental health team	1,078	901	13%	4%	8%	1%	5%	2%	4%	1%	22%	8%	2%	0%
Older people team	110	46	27%	11%	3%	0%	8%	4%	67%	65%	55%	50%	27%	4%
Pacific people team	184	84	6%	2%	4%	0%	17%	6%	5%	1%	13%	2%	21%	8%
Specialty team	140		23%		23%		28%		15%		73%		12%	
Total	16,375	9,246	17%	6%	20%	4%	28%	15%	12%	5%	22%	15%	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	37%	9%	47%	18%	42%	20%	15%	9%	11%	5%	23%	11%
Child and youth team	62%	24%	74%	40%	48%	24%	23%	10%	2%	7%	12%	11%
Co-existing problem team	54%		88%		68%		20%		4%		42%	
Community team	55%	21%	69%	35%	43%	22%	19%	8%	12%	6%	22%	11%
Early intervention team	27%	11%	50%	37%	41%	30%	26%	14%	12%	6%	15%	9%
Eating disorders team	59%	32%	97%	68%	31%	14%	33%	7%	5%	3%	13%	3%
Forensic team	9%	2%	28%	9%	22%	7%	7%	0%	62%	48%	59%	51%
Kaupapa Māori team	43%	21%	62%	32%	49%	28%	18%	9%	15%	12%	23%	10%
Maternal mental health team	73%	17%	86%	37%	36%	18%	20%	3%	10%	4%	14%	2%
Older people team	29%	13%	43%	17%	45%	35%	69%	59%	15%	9%	27%	9%
Pacific people team	19%	2%	32%	8%	30%	6%	9%	0%	9%	2%	8%	4%
Specialty team	34%		85%		44%		57%		26%		68%	
Total	53%	20%	68%	35%	42%	22%	20%	8%	13%	6%	22%	10%

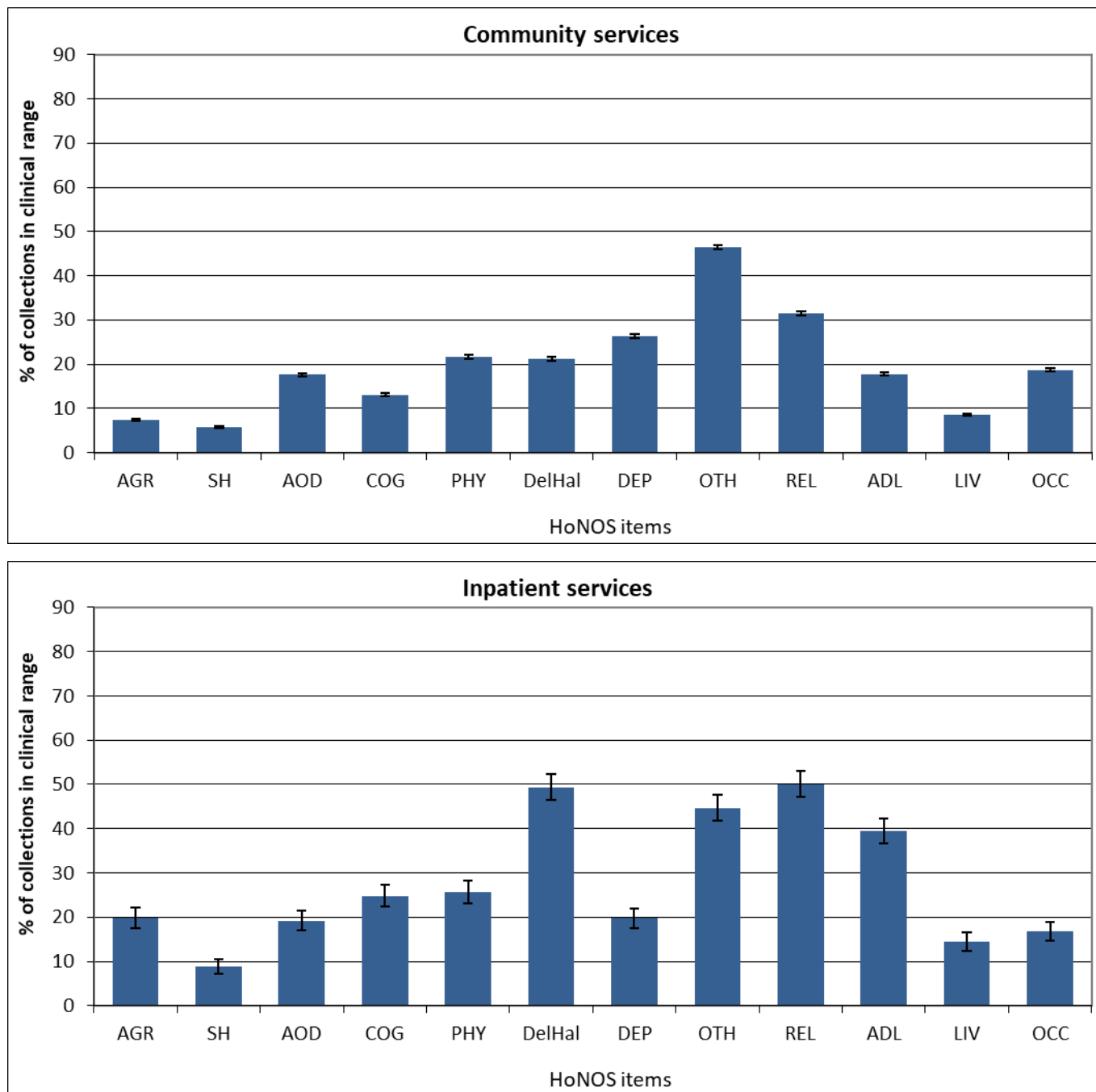
Inpatient services

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	6%	8%	3%	0%	100%	97%	3%	5%	21%	16%	0%	1%
Eating disorders team	21		0%		5%		10%		14%		62%		0%	
Inpatient team	9,044	8,586	44%	9%	35%	9%	44%	22%	22%	8%	21%	13%	51%	18%
Maternal mental health team	71	54	15%	7%	21%	7%	9%	4%	10%	4%	14%	6%	15%	4%
Older people team	32	37	22%	22%	10%	3%	13%	6%	50%	59%	59%	43%	21%	42%
Total	9,447	8,945	43%	9%	33%	8%	45%	24%	21%	8%	21%	13%	49%	17%

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%	18%	18%	12%	6%	3%	2%	1%	9%	3%	2%	0%	
Eating disorders team	67%		100%		30%		24%		5%		5%		
Inpatient team	48%	19%	68%	30%	53%	29%	30%	10%	23%	11%	27%	15%	
Maternal mental health team	73%	41%	85%	70%	48%	46%	28%	4%	4%	15%	6%	4%	
Older people team	32%	14%	37%	16%	56%	44%	47%	62%	48%	30%	41%	33%	
Total	48%	19%	66%	30%	52%	29%	29%	10%	23%	11%	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 7b: Percentage of collections in clinical range on each HoNOS item (review collections), New Zealand, Jan - Dec 2018



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.

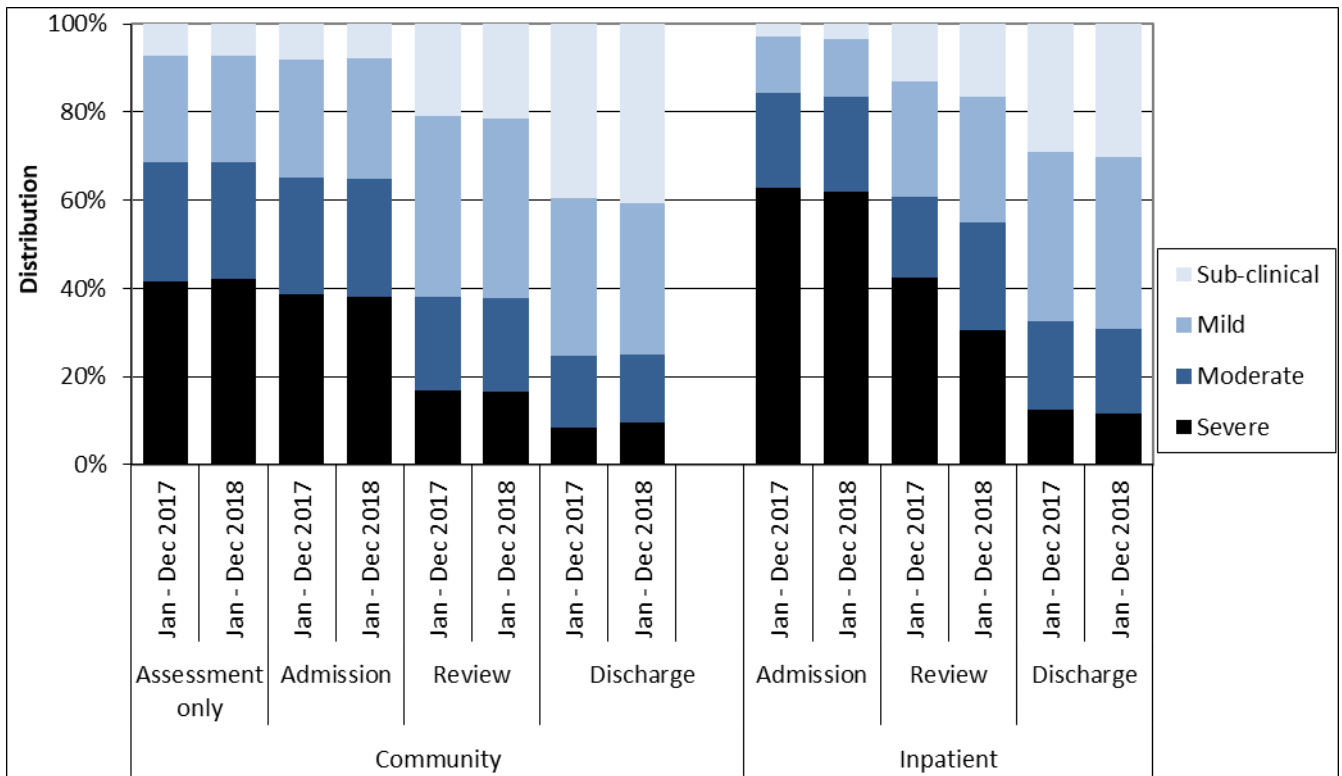
Interpretation: The longer the bar, the more prevalent the difficulty measured by the item is amongst service users.

Table 7b: Percentage of collections in clinical range on each HoNOS item (review collections) by team, New Zealand, Jan - Dec 2018

Team type	N	AGR	SH	AOD	COG	PHY	DelHal	DEP	OTH	REL	ADL	LIV	OCC
Community services													
Alcohol and drug team	827	7%	5%	54%	6%	24%	2%	21%	26%	23%	6%	7%	8%
Child and youth team	277	13%	9%	20%	16%	13%	10%	36%	66%	47%	26%	9%	25%
Co-existing problem team	33	12%	6%	58%	9%	30%	6%	33%	64%	39%	27%	9%	24%
Community team	34,520	7%	6%	17%	13%	22%	22%	26%	47%	32%	18%	9%	19%
Early intervention team	1,099	7%	6%	28%	14%	8%	34%	22%	42%	33%	23%	9%	17%
Eating disorders team	274	8%	10%	7%	14%	38%	10%	54%	90%	27%	26%	7%	13%
Forensic team	138	3%	1%	7%	5%	18%	17%	5%	25%	19%	11%	39%	56%
Intellectual disability dual diagnosis team	39	28%	5%	0%	64%	24%	13%	18%	56%	59%	64%	18%	31%
Kaupapa Māori team	2,884	10%	5%	26%	15%	22%	26%	20%	40%	32%	17%	12%	19%
Maternal mental health team	1,482	8%	4%	4%	4%	16%	1%	55%	75%	32%	9%	5%	8%
Older people team	165	24%	1%	3%	77%	48%	18%	16%	26%	48%	68%	5%	16%
Pacific people team	1,224	2%	1%	9%	4%	14%	18%	5%	16%	13%	13%	4%	13%
Total	43,000	7%	6%	18%	13%	22%	21%	26%	46%	31%	18%	9%	19%
Inpatient services													
Forensic team	106	28%	9%	11%	41%	18%	55%	20%	52%	66%	51%	8%	18%
Inpatient team	1,051	19%	8%	20%	23%	26%	49%	19%	44%	48%	38%	15%	17%
Total	1,167	20%	9%	19%	25%	26%	49%	20%	45%	50%	40%	14%	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 8: Index of Severity ratings for HoNOS by collection type, New Zealand, Jan - Dec 2017 and Jan - Dec 2018



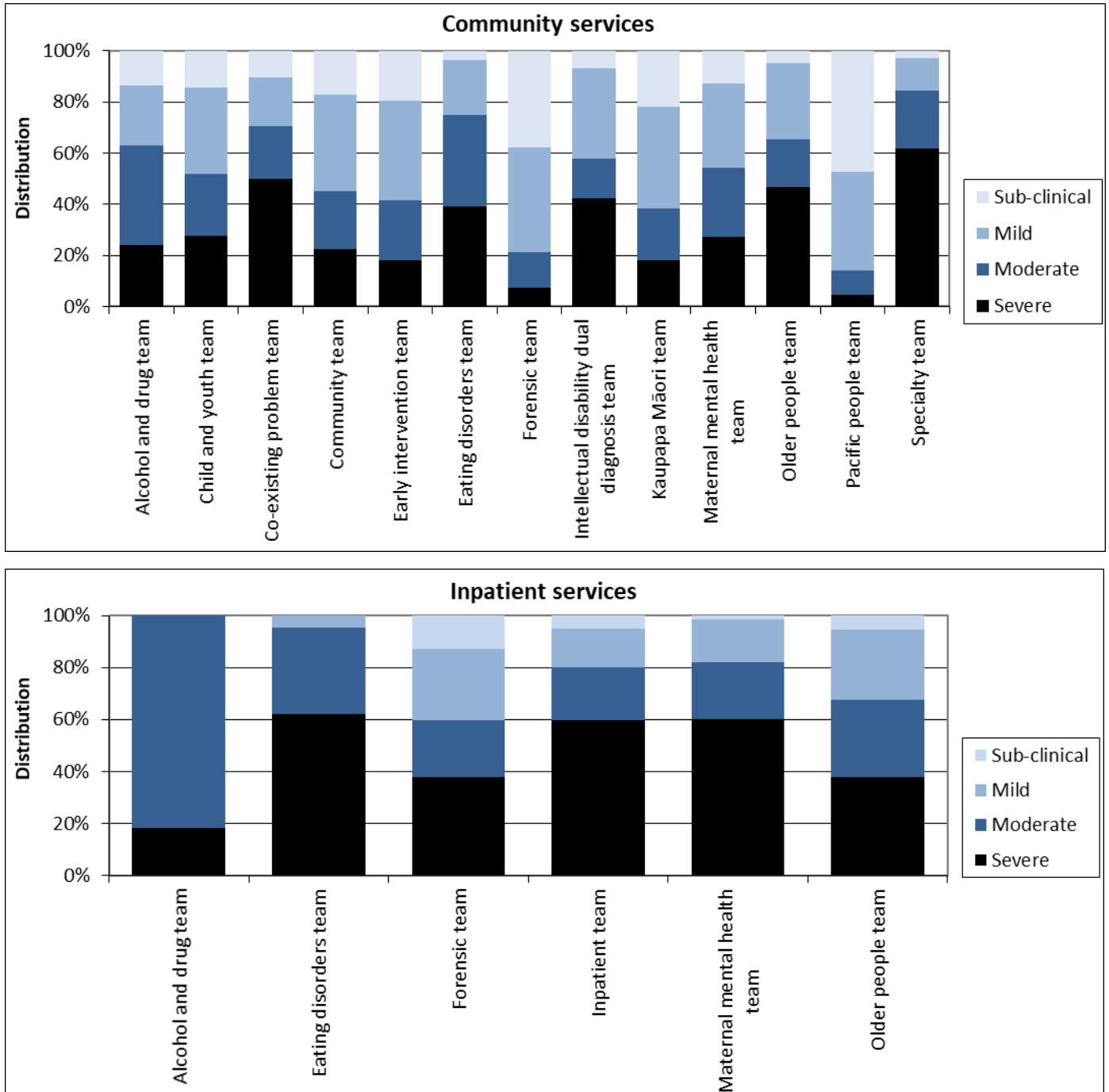
Notes: Index of Severity: Sub clinical = all items <2, mild = at least one item >1 and all items <3, moderate = at least one item >=3, severe = at least 2 items >=3 using first 10 items. Community discharge does not include discharge to an inpatient unit.

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.

3. 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 9: Index of Severity for HoNOS (admission and review collections) by team, New Zealand, Jan - Dec 2018



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 9: Index of Severity for HoNOS by collection type and team, New Zealand, Jan - Dec 2018

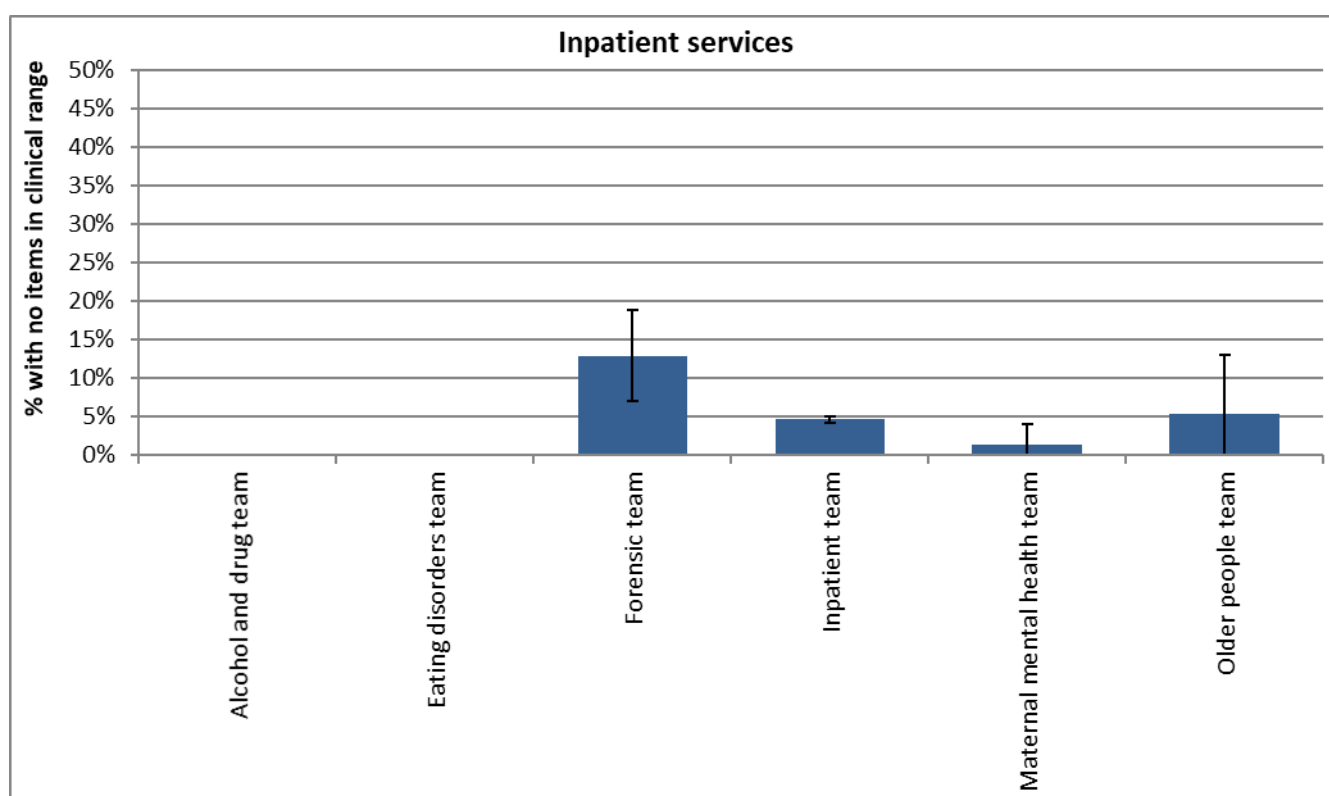
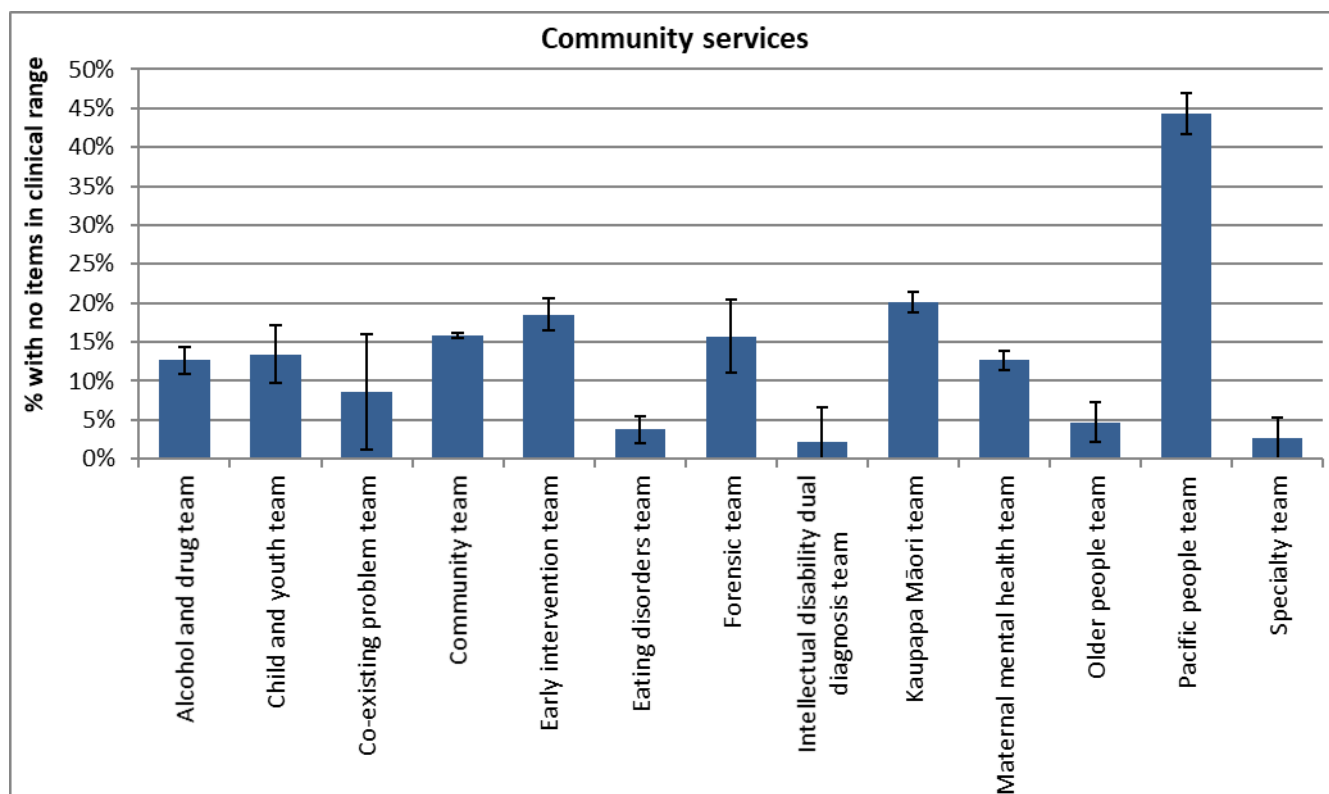
Team type	Assessment only					Admission					Review					Discharge				
	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N	Sub	Mild	Mod	Sev	N
Community services																				
Alcohol and drug team	2%	13%	33%	51%	429	3%	15%	47%	34%	597	21%	30%	33%	16%	827	37%	32%	23%	9%	282
Child and youth team	5%	15%	33%	48%	40	6%	25%	28%	42%	65	16%	36%	24%	24%	277	35%	49%	12%	4%	92
Co-existing problem team						4%	4%	12%	80%	25	15%	30%	27%	27%	33					
Community team	7%	24%	26%	42%	10,020	8%	28%	26%	39%	13,014	21%	41%	21%	16%	34,540	39%	35%	16%	10%	7,156
Eating disorders team						15%	37%	27%	22%	325	21%	40%	23%	17%	1,099	33%	44%	16%	8%	120
Eating disorders team	0%	15%	51%	34%	41	0%	15%	37%	47%	233	7%	27%	34%	32%	274	24%	38%	26%	12%	158
Forensic team	43%	26%	19%	12%	42	28%	41%	20%	11%	97	45%	41%	10%	4%	138	71%	21%	6%	2%	128
Intellectual disability dual diagnosis team											8%	36%	10%	46%	39					
Kaupapa Māori team	8%	27%	25%	41%	265	9%	37%	24%	30%	504	24%	40%	19%	16%	2,885	38%	39%	13%	11%	256
Maternal mental health team	21%	37%	20%	21%	214	7%	23%	31%	39%	1,078	17%	40%	25%	19%	1,482	52%	31%	10%	6%	901
Older people team	12%	16%	8%	64%	25	3%	25%	23%	49%	110	6%	33%	16%	45%	165	13%	17%	20%	50%	46
Pacific people team						35%	35%	20%	11%	184	49%	39%	8%	4%	1,225	79%	15%	4%	2%	84
Specialty team	5%	17%	34%	45%	130	3%	11%	22%	64%	140										
Total	7%	24%	27%	42%	11,240	8%	27%	27%	38%	16,390	21%	41%	21%	16%	43,023	41%	34%	16%	9%	9,258

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%	0%	82%	18%	258						3%	8%	79%	10%	238
Eating disorders team						0%	5%	33%	62%	21										
Forensic team											15%	25%	21%	40%	106					
Inpatient team						4%	13%	20%	63%	9,058	17%	29%	25%	30%	1,052	31%	40%	18%	12%	8,589
Maternal mental health team						1%	15%	23%	61%	71						19%	33%	20%	28%	54
Older people team						6%	28%	25%	41%	32						11%	35%	22%	32%	37
Total						3%	13%	22%	62%	9,461	17%	29%	24%	31%	1,168	30%	39%	19%	12%	8,948

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 10: Collections with no HoNOS items in clinical range, New Zealand, Jan - Dec 2018



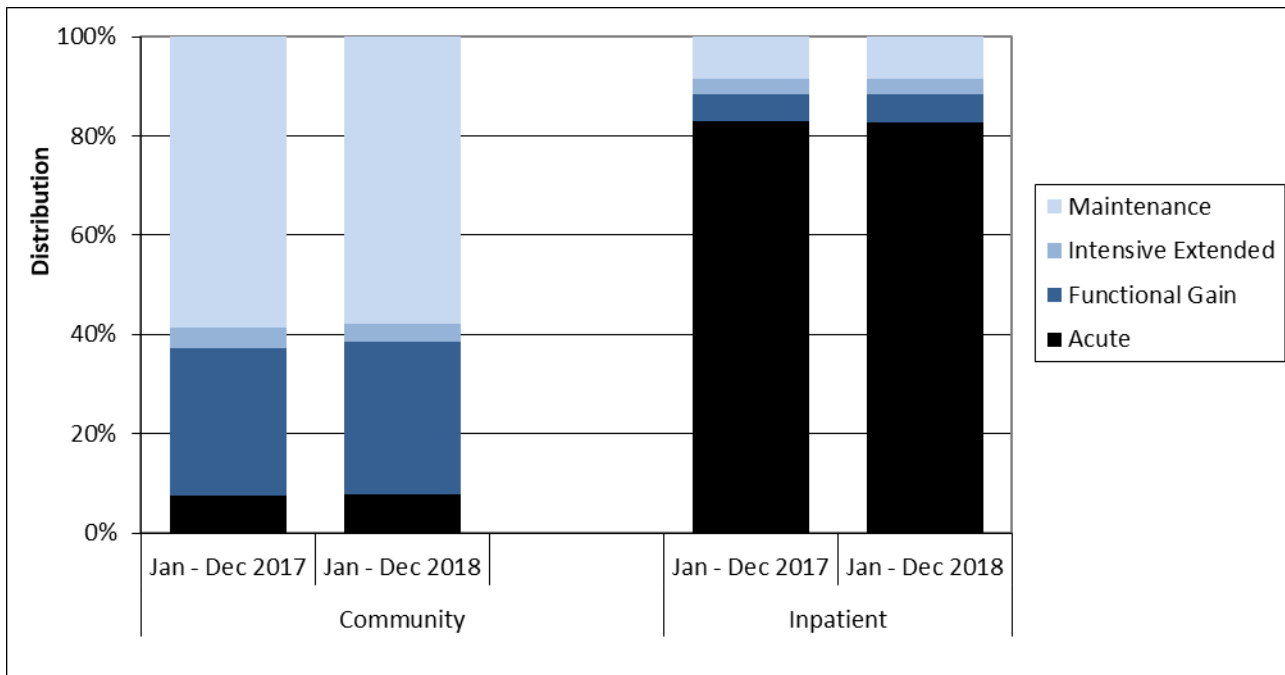
Notes: Includes admission and review collections. Shows percentage of service users with all HoNOS items less than two, ie no HoNOS items in the clinical range. **Interpretation:** There are a variety of reasons that may make it appropriate for service users to remain in the service even though they 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 10: Collections with no HoNOS items in clinical range, New Zealand, Jan - Dec 2018

Team type	Number of collections with no items in clinical range	Percentage with no items in clinical range
Community services		
Alcohol and drug team	180	13%
Child and youth team	46	13%
Co-existing problem team	5	9%
Community team	7,562	16%
Early intervention team	264	19%
Eating disorders team	19	4%
Forensic team	37	16%
Intellectual disability dual diagnosis team	1	2%
Kaupapa Māori team	682	20%
Maternal mental health team	324	13%
Older people team	13	5%
Pacific people team	624	44%
Specialty team	4	3%
Total	9,765	16%
Inpatient services		
Alcohol and drug team	0	0%
Eating disorders team	0	0%
Forensic team	16	13%
Inpatient team	466	5%
Maternal mental health team	1	1%
Older people team	2	5%
Total	485	5%

Notes: For further information see notes for Graph 10.

Graph 11: Focus of care categories, New Zealand, Jan - Dec 2017 and Jan - Dec 2018



Notes: Data from review and discharge collections.

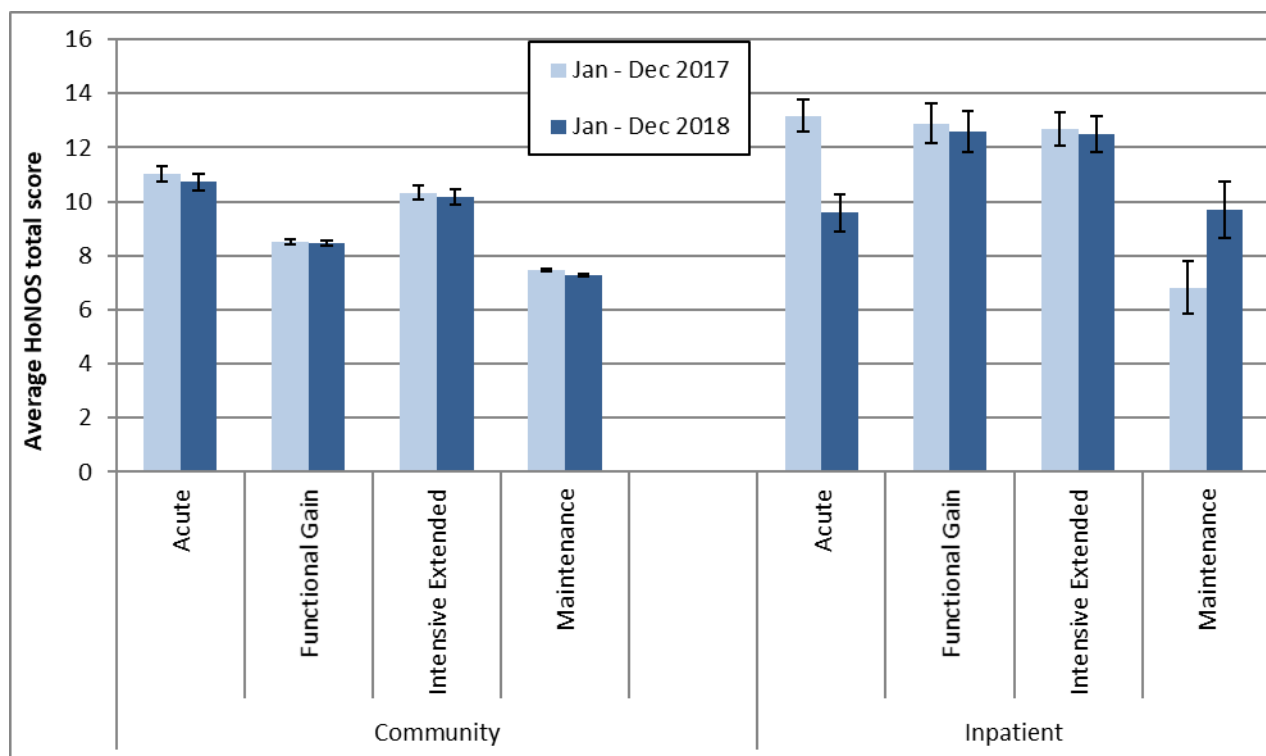
Interpretation: Darker bars indicate more intensive involvement in care, so a longer or darker bar in general suggests more intensive working. A longer functional gain bar and shorter maintenance bar potentially suggests more recovery focused ways of working.

Table 11: Focus of care categories by team, New Zealand, Jan - Dec 2017 and Jan - Dec 2018

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	9%	8%	38%	39%	0%	1%	52%	52%	1,032	1,127
Child and youth team	5%	4%	30%	29%	11%	8%	55%	59%	355	365
Co-existing problem team	8%	28%	16%	19%	2%	5%	73%	49%	49	43
Community team	8%	8%	29%	30%	4%	4%	58%	58%	47,964	42,032
Early intervention team	4%	4%	41%	40%	6%	2%	49%	54%	1,198	1,263
Eating disorders team	6%	9%	69%	58%	12%	16%	13%	17%	656	448
Forensic team	4%	7%	1%	6%	4%	0%	91%	87%	324	206
Intellectual disability dual diagnosis team	3%	2%	13%	8%	0%	0%	85%	90%	40	49
Kaupapa Māori team	5%	5%	15%	20%	2%	2%	77%	73%	3,170	2,923
Maternal mental health team	11%	11%	51%	52%	2%	2%	35%	35%	2,506	2,374
Older people team	6%	11%	9%	10%	8%	10%	77%	68%	241	210
Pacific people team	1%	1%	12%	13%	0%	0%	86%	86%	1,464	1,257
Residential/accommodation team	0%		5%		10%		86%		21	
Specialty team	2%		36%		11%		50%		44	
Total	8%	8%	30%	31%	4%	4%	59%	58%	59,086	52,361
Inpatient services										
Alcohol and drug team	99%	100%	1%	0%	0%	0%	0%	0%	254	228
Eating disorders team	67%		22%		3%		8%		36	
Forensic team	18%	12%	9%	8%	55%	50%	18%	30%	77	116
Inpatient team	83%	83%	6%	6%	3%	3%	8%	8%	10,382	9,257
Maternal mental health team	83%	84%	4%	4%	0%	0%	13%	12%	70	50
Older people team	68%	76%	5%	2%	0%	0%	27%	22%	37	41
Total	83%	83%	5%	6%	3%	3%	8%	9%	10,859	9,710

Notes: For further information see notes for Graph 11.

Graph 12: HoNOS total score (review collections) by focus of care, New Zealand, Jan - Dec 2017 and Jan - Dec 2018



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 12: HoNOS total score (review collections) by focus of care by team, New Zealand, Jan - Dec 2018

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	58	12.3	10.6-13.9	184	7.4	6.7-8.1				542	4.9	4.6-5.2
Child and youth team				82	10.6	9.4-11.9	24	12.3	9.3-15.4	147	8.2	7.4-9.1
Community team	1,050	10.8	10.4-11.2	9,812	8.5	8.4-8.6	1,383	9.9	9.7-10.2	20,532	7.4	7.4-7.5
Early intervention team	29	13.3	10.3-16.4	426	8.2	7.7-8.6	20	12.9	9.3-16.4	571	7.6	7.1-8.1
Eating disorders team				162	9.6	8.8-10.4	41	13.9	11.3-16.5	45	7.9	6.4-9.5
Forensic team										127	7.4	6.6-8.2
Intellectual disability dual diagnosis team										38	11.5	9.6-13.3
Kaupapa Māori team	91	13.2	11.9-14.4	509	9.3	8.8-9.9	62	9.0	7.5-10.5	1,933	7.5	7.3-7.8
Maternal mental health team	126	6.0	5.2-6.8	772	8.1	7.7-8.4				495	6.1	5.7-6.4
Older people team							20	12.4	10.8-14.0	111	10.8	9.9-11.7
Pacific people team				126	4.3	3.7-5.0				1,032	4.5	4.2-4.7
Total	1,404	10.7	10.4-11.0	12,112	8.5	8.4-8.5	1,577	10.1	9.9-10.4	25,606	7.3	7.2-7.3
Inpatient services												
Forensic team							58	13.5	12.3-14.6	31	8.5	5.9-11.1
Inpatient team	493	9.4	8.7-10.1	212	12.7	12.0-13.5	163	12.1	11.3-12.9	149	9.9	8.8-11.1
Total	506	9.6	8.9-10.3	218	12.6	11.9-13.3	223	12.5	11.8-13.1	183	9.7	8.7-10.8

Notes: For further information see notes for Graph 12.