Care Pathways and Packages Project
Developing currencies for mental health payment by results

Payment by Results Quality and Outcomes Indicators

Report for PRG Quality & Outcomes Sub Group.

May 2011

Contents

Introduction

This analysis has been undertaken to look into the results that can be obtained using clustered data. Although the analysis was undertaken separately by the Care Packages and Pathways Project (CPPP) and the NHS Information Centre (NHS IC), care was taken to ensure that, wherever possible, the analysis was done using the same parameters and definitions. The two sets of analysis are presented here in a single document.

The NHS IC had access to two quarters of clustered data, Q2 2010/2011 and Q3 2010/2011. For the settled accommodation and employment indicators, the NHS IC has compared the clustered data against the national results.

For Q2 2010/2011, only 4 providers were able to provide clustered information of the total 73 providers in the quarter that provided data.

For Q3 2010/2011, this number increased to 6 providers of the total number of 69 that provided data in the quarter.

The data has been anonymised and as such trusts are referred to as 1 to 6. The IC holds a key as to which trust is which number so as to be able to provide additional analysis if required.

The Care Pathways and Packages Project (CPPP) has access to a large data warehouse of clustered data from 7 providers. Q1-4 2010/2011 were used for this analysis. Data was extracted from the warehouse to perform analysis on proposed indicators.

Summary of the data

This section provides a quick high level summary of the figures that are used in this report.

NHS IC – quarterly files

In Q2 2010/2011 there were a total of 9,037 people who were clustered.

In Q3 2010/2011 there were a total of 22,085 people who were clustered.

CPPP

Six extracts were used for the analysis of proposed indicators.

For extract 1 (Indicator 2) there were a total of 46,000 people clustered.

For extract 2 (Indicators 5a and 5b) there were a total of 22,363 people clustered.

For extract 3 (Indicators 6a and 6b) there were a total of 22,292 people clustered.

For extract 4 (Indicator 9) there were a total of 2,889 people clustered.

For extract 5 (Indicator 11) there were a total of 2,036 people clustered.

For extract 6 (Indicator 12a) there were a total of 64,690 people clustered.

A break down of the total number of people in each cluster by IC quarter and CPPP extract is provided below in Table 1. In all tables where CPPP and NHS IC data are shown side by side, the cluster with the minimum value for each extract is shown in yellow (excluding cluster 9) and the maximum is shown in blue.

It should be noted that none of the CPPP organisations are included in the NHS IC figures so these represent different organisations.

As this is the first set of analysis to have been done looking at the Clusters in relation to outcome indicators, there is no comparative data and the quality and accuracy of the clustering may be questionable.

Table 1

PbR Cluster	NHS IC		CPPP					
	Q2 2010/2011	Q3 2010/2011	Extract 1	Extract 2	Extract 3	Extract 4	Extract 5	Extract 6
0	483	492	565	258	260	52	41	1389
1	623	1268	1466	842	832	126	93	4709
2	1804	2556	2296	1189	1181	158	118	4889
3	684	2051	4974	2230	2229	245	194	9196
4	388	1257	3449	1697	1689	217	174	5274
5	246	562	1064	519	521	73	44	1230
6	142	307	846	465	468	37	33	1178
7	173	584	1799	1117	1111	77	57	1987
8	600	1049	2043	1344	1332	176	134	2045
9	295	328	146	117	116	43	31	494
10	399	1252	2286	1680	1680	178	103	2335
11	1480	3149	7124	4558	4541	329	196	7680
12	690	1736	3733	2477	2476	226	146	3432
13	137	998	2042	1374	1369	192	116	1883
14	100	231	507	359	357	123	92	561
15	64	184	233	120	121	27	15	271
16	222	563	600	460	457	99	69	682

17	82	901	1289	1028	1024	205	129	1180
18	547	1488	3132	93	93	46	34	5144
19	174	1036	4220	190	191	143	119	6100
20	231	620	1652	175	172	87	71	2296
21	70	338	534	71	72	30	27	735
	9634	22950	46000	22363	22292	2889	2036	64690

Indicator 2 - Proportion of patients on Care Programme Approach (CPA)

The indicator is the numerator divided by the denominator, expressed as a percentage

Numerator: The number of people under adult mental illness specialties on CPA broken down by cluster

Denominator: The total number of peoples in contact with adult mental illness specialties broken down by cluster

Table 2 shows the percentage of the total number of people in each cluster who are on CPA.

Table 2

	NHS IC		CPPP					
	Q2	Q3						
PbR Cluster	2010/2011	2010/2011	Trust 1	Trust 3	Trust 4	Trust 5	Trust 6	Trust 7
0	30.4	34.6	92.3	33.6	25.1	59.5	35.3	40.0
1	40.0	31.2	88.5	37.2	27.8	67.0	25.4	29.6
2	49.9	44.9	97.4	38.1	30.3	68.7	24.7	33.6
3	33.3	28.6	94.4	40.9	33.7	57.7	26.7	38.9
4	54.9	39.8	91.7	51.9	37.0	63.0	23.5	58.8
5	63.4	51.4	100.0	54.2	35.0	71.7	46.0	80.5
6	70.4	46.3	93.8	58.0	38.5	70.8	29.3	63.6
7	64.7	49.8	97.0	57.3	44.6	75.6	56.6	56.7
8	69.8	64.3	100.0	63.0	39.3	78.0	45.2	77.0
9	44.7	43.3	100.0	38.9	23.8	61.9	8.3	64.3

10	74.4	60.1	93.1	58.1	42.6	92.9	37.6	91.0
11	85.7	76.2	97.3	66.7	51.0	64.9	57.0	73.0
12	89.9	83.0	94.0	73.1	53.9	81.9	71.7	87.5
13	79.6	81.2	98.2	70.4	55.4	90.1	81.7	91.7
14	83.0	74.0	100.0	68.0	43.0	87.8	55.6	95.1
15	84.4	67.4	100.0	65.0	45.3	77.5	66.7	76.7
16	87.4	82.8	100.0	83.7	45.0	85.6	80.8	93.2
17	92.7	42.2	100.0	87.1	56.5	94.4	88.5	94.7
18	6.4	9.7	83.3	30.5	10.0	2.6	16.3	19.4
19	12.6	22.2	86.7	42.2	19.0	13.8	7.8	33.6
20	13.9	24.0	80.0	56.8	26.2	34.6	47.5	39.6
21	17.1	22.8	100.0	60.7	26.6	44.1	14.3	56.3
88					32.8			
99					18.2	0.0	43.3	
Average	56.8	49.1	95.0	53.4	35.4	68.3	48.1	63.5

Indicator 2: Analysis by organisation:

Data source: MHMDS

Of the total number of people in the dataset, in Q2 2010/2011 56.7% had CPA recorded. In Q3 2010/2011 the number of people recorded as being on CPA was 50.0%

Table 3 shows the percentage of people in each provider in each cluster who were or are on enhanced CPA at some point in the reporting period.

Table 3

	Organisation Code											
	1		2		3		4		5		6	
PbR_Cluster	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3
0			30.4	34.6								
1	8.3	27.5	40.6	43.1		9.4	100.0	58.3		46.7		
2	16.7	41.2	50.1	51.4		9.9	75.0	70.6		52.9		

3	10.0	32.9	35.3	38.5		7.7		43.8		46.2		42.9
4	37.9	36.0	56.3	53.1		11.0		50.0		67.9		
5	21.1	47.6	67.0	61.0		28.8		66.7		87.5		
6		28.2	71.9	67.7		6.7				100.0		100.0
7	9.1	45.6	68.3	61.4		35.8		50.0	100.0	54.3		42.9
8	35.0	56.1	71.0	72.8		23.4		50.0		52.9		100.0
9		21.4	44.7	44.1						66.7		
10	77.8	78.2	73.9	78.0		38.9		50.0	100.0	75.0		
11	43.1	61.3	87.7	88.5		65.3	100.0	78.3	100.0	82.4		71.4
12	54.1	75.5	91.9	92.7		72.1	100.0	80.0		85.0		71.4
13	67.6	81.8	83.3	81.3		32.0		100.0		90.0		50.0
14	100.0	68.8	82.8	81.3		33.3		100.0		42.9		
15	40.0	54.0	92.6	89.7		66.7				55.6		
16	50.0	71.6	88.8	91.3		90.4		100.0		81.8		
17	55.6	86.4	97.3	99.1		0.4		100.0		85.5		100.0
18	12.0	20.3	6.1	6.2		1.6				27.3		
19	11.4	24.4	13.2	14.8		9.6				62.5		
20	11.8	30.1	14.0	12.3		3.3				65.0		
21		27.2	17.9	18.9		4.3				73.3		

Data source: CPPP Extract 1

Table 4 shows the percentage of people in each provider in each cluster who were or are on enhanced CPA at some point in the reporting period.

Table 4

	CPPP All	Trust 1	Trust 3	Trust 4	Trust 5	Trust 6	Trust 7
0	32.2	92.3	33.6	25.1	59.5	35.3	40.0
1	35.7	88.5	37.2	27.8	67.0	25.4	29.6
2	36.8	97.4	38.1	30.3	68.7	24.7	33.6
3	32.8	94.4	40.9	33.7	57.7	26.7	38.9
4	42.4	91.7	51.9	37.0	63.0	23.5	58.8
5	50.8	100.0	54.2	35.0	71.7	46.0	80.5
6	50.1	93.8	58.0	38.5	70.8	29.3	63.6
7	51.8	97.0	57.3	44.6	75.6	56.6	56.7
8	49.7	100.0	63.0	39.3	78.0	45.2	77.0
9	46.6	100.0	38.9	23.8	61.9	8.3	64.3
10	60.6	93.1	58.1	42.6	92.9	37.6	91.0
11	55.7	97.3	66.7	51.0	64.9	57.0	73.0
12	64.6	94.0	73.1	53.9	81.9	71.7	87.5
13	65.2	98.2	70.4	55.4	90.1	81.7	91.7
14	60.2	100.0	68.0	43.0	87.8	55.6	95.1
15	51.9	100.0	65.0	45.3	77.5	66.7	76.7
16	66.0	100.0	83.7	45.0	85.6	80.8	93.2
17	71.4	100.0	87.1	56.5	94.4	88.5	94.7
18	12.9	83.3	30.5	10.0	2.6	16.3	19.4
19	22.2	86.7	42.2	19.0	13.8	7.8	33.6
20	28.1	80.0	56.8	26.2	34.6	47.5	39.6
21	33.1	100.0	60.7	26.6	44.1	14.3	56.3
88	32.8			32.8			

99	8.6			18.2	0.0	43.3	
Total	44.2	95.0	53.4	35.4	68.3	48.1	63.5

Indicator 2: Proportion of patients on CPA - summary

- There seems to be high variability between Trusts in the non-psychotic clusters (1-8).
- It would be expected that more people in Cluster 3 (Non-Psychotic Moderate Severity) should be on CPA than in Cluster 2 (Common Mental Health Problems - Low Severity with greater need) but this is not the case for most organisations (9 out of 12 analysed).
- It would be expected that Cluster15 (Severe Psychotic Depression) would be more similar to 14 (Psychotic Crisis) and 16 (Dual Diagnosis) to be higher in line with 17 (Psychosis and Affective Disorder – Difficult to Engage).
- In all 12 Trusts, a higher number of people on Care Programme Approach were on Clusters 1-4 (Non-Psychotic, Mild/Moderate/Severe) than might have been expected.

- Whereas, overall, Cluster 11 (Ongoing Recurrent Psychosis - Low Symptoms) was the most common result, Cluster 17 (Psychosis and Affective Disorder – Difficult to Engage) was the most common for people on CPA.

- Similarly, Cluster 18 (Cognitive Impairment - Low Need) was the least likely cluster for people on CPA, Cluster 15 (Severe Psychotic Depression) was the least likely overall.

Indicator 4 - IAPT KPI indicators

IAPT 1: The proportion of people that enter treatment against the level of need in the general population i.e. the proportion of people who have depression and/or anxiety disorders who receive psychological therapies

The indicator is the numerator divided by the denominator, expressed as a percentage

Numerator: the number of people who have entered psychological therapies (KPI 4). "Entered psychological therapies" is defined as attending first therapeutic session, which may be during the same appointment as initial assessment.

Denominator: the number of people who have depression and/or anxiety disorders (local estimate based on Psychiatric Morbidity Survey (KPI 1)

IAPT 2: The proportion of those referred that enter treatment i.e. the proportion of people who are referred for psychological therapies who receive psychological therapies

The indicator is the numerator divided by the denominator, expressed as a percentage

Numerator: the number of people who have entered psychological therapies (KPI 4). "Entered psychological therapies" is defined as attending first therapeutic session, which may be during the same appointment as initial assessment.

Denominator: The number of people who have been referred for psychological therapies (KPI3a) This is a count of referrals that the service provider has received during the reporting period

IAPT 3: The number of people assessed as moving to recovery as a proportion of those who have completed a course of psychological treatment

This indicator only includes the people receiving treatment that are at 'caseness' on entry to treatment

Numerator: The number of people who are "moving to recovery" (KPI 6)This is a count of all those people at initial assessment achieved "caseness" and at final session did not. "Caseness" is defined by a score of 8 or more on GAD7 and 10 or more on PHQ-9.

Denominator: = a – b
  a) The number of people who have completed treatment (KPI 5) This is a count people who have left treatment within the reporting period for any reason including: planned completion; deceased; declined treatment; dropped out (unscheduled discontinuation); or unknown.
  b) The number of people who have completed treatment not at clinical caseness at treatment commencement

Frequency: quarterly

Data source: OMNIBUS

Table 5 below shows the national results for this over the annual period Q4 2009/2010 to Q3 2010/2011. The data has been broken down by quarter and by provider in the embedded Excel spreadsheet in appendix A.

Table 5

Indicator 4 national (Annual Q4 2009/2010 - Q3 2010/2011)			
	IAPT1	IAPT2	IAPT3
National	5.6%	54.1%	39.7%

Indicator 5a - Accommodation status - completeness

Indicator: Proportion of adults on Care Programme Approach receiving secondary mental health services that have a valid entry recorded for their settled accommodation indicator

Numerator: The number of people aged between 18 and 69 who accessed secondary mental health services during the quarter and were either on CPA at the end of the reporting period or had a period of care on CPA within the reporting period that had valid entry for settled accommodation. The settled accommodation indicator used is the most recent entered for the patient in the last 12 months. Valid entries are those with settled accommodation values of '1' and '0'.

Denominator: The number of people aged between 18 and 69 who accessed secondary mental health services during the quarter and were either on CPA at the end of the reporting period or had a period of care on CPA within the reporting period

Table 6 shows the percentage of those on CPA aged 18 to 69 who had a valid settled accommodation status in each cluster.

Table 6

PbR Cluster	NHS IC		CPPP
	Q2 2010/2011	Q3 2010/2011	Extract2
0	85.6	82.0	39.7
1	92.5	90.5	41.6
2	92.0	92.8	43.7
3	93.3	87.1	44.1
4	93.6	91.9	45.4
5	90.7	89.2	49.2
6	96.9	95.7	54.0
7	94.5	92.3	46.3
8	91.8	89.2	41.6
9	94.6	93.6	37.9
10	94.4	85.3	46.8
11	94.3	90.3	51.4
12	95.0	93.0	51.4
13	91.7	91.5	52.8
14	92.3	91.4	45.9

15	83.3	88.9	50.0
16	96.9	93.9	50.4
17	97.3	95.6	55.4
18	92.3	84.6	43.5
19	92.3	93.2	41.8
20	80.0	71.2	44.2
21	80.0	80.0	46.4

Indicator 5a: by cluster and organisation

Source: MHMDS

Table 7 shows the percentage of people on CPA aged between 18 and 69 who had a valid settled accommodation code by provider and cluster.

Of the total number of people in the dataset, in Q2 2010/2011 there were 5,210 people who were on CPA aged 18 to 69. Of these, 53.5% had a valid settled accommodation status in the last 12 months. In Q3 2010/2011 there were 10,447 people who were on CPA aged 18 to 69. Of these, 58.8% had a valid settled accommodation code in the last 12 months.

For comparison, for Q2 2010/2011 the national value for those with a valid settled accommodation status across all providers nationally was 75.7%. For Q3 2010/2011 the national value for those with a valid settled accommodation status was 77.8%. Information taken from indicator 1a from the Mental Health Service Performance Indicators published at http://www.ic.nhs.uk/services/mhmds/quarterly

Table 7

	Organisation Code											
	1		2		3		4		5		6	
PbR Cluster	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3
0			42.5	53.3								
1	50.0	47.4	58.2	46.0		66.7	100.0	85.7		100.0		
2	50.0	53.5	63.9	48.9		69.0	100.0	100.0				
3	50.0	51.9	54.3	53.7		51.2		71.4		41.7		100.0
4	60.0	50.0	52.3	61.7		66.7		100.0		25.0		
5	75.0	54.5	49.7	44.2		62.1		100.0		50.0		
6		42.9	55.1	37.6		75.0				75.0		100.0
7	100.0	59.2	48.6	44.5		73.5		100.0	100.0	38.9		100.0
8	85.7	53.5	52.9	43.9		66.7		100.0		25.0		100.0
9		66.7	73.6	54.8						100.0		
10	71.4	57.0	49.8	45.3		55.0		100.0	60.0	58.8		
11	57.7	46.9	45.7	42.5		71.6	100.0	100.0	100.0	44.0		80.0
12	60.0	50.1	53.0	49.6		45.2	100.0	100.0		27.6		100.0
13	69.6	56.6	54.8	55.0		87.5		100.0		41.4		100.0
14		60.4	48.7	44.2		66.7		100.0		100.0		
15	50.0	69.0	38.0	44.2		70.0						
16	66.7	62.1	50.0	55.4		78.3		100.0		44.4		

17	100.0	59.0	60.0	77.2		50.0		100.0		27.3		100.0
18		42.9	61.5	43.8		50.0				100.0		
19	33.3	47.8	30.0	40.0		91.7				33.3		
20	100.0	20.0	57.1	14.3								
21		50.0	80.0	33.3		66.7				25.0		

Indicator 5b – Accommodation - in settled accommodation

Indicator: Proportion of adults on Care Programme Approach receiving secondary mental health services in settled accommodation

Numerator: The number of people aged between 18 and 69 who accessed secondary mental health services during the quarter and were either on Care Programme Approach (CPA) at the end of the reporting period or had a period of care on CPA within the reporting period, that were recorded as being in settled accommodation. The settled accommodation indicator used is the most recent entered for the patient in the last 12 months.

Denominator: The number of people aged between 18 and 69 who accessed secondary mental health services during the quarter and were either on Care Programme Approach (CPA) at the end of the reporting period or had a period of care on CPA within the reporting period.

Table 8 shows the percentage of those on CPA aged 18 to 69 who were in settled accommodation in each cluster.

Table 8

| PbR Cluster | NHS IC | | CPPP |
	Q2 2010/2011	Q3 2010/2011	ALL
0	76.7	73.1	60.5
1	87.9	85.9	62.9
2	84.9	85.8	64.8
3	88.8	82.6	55.8
4	89.7	87.9	58.3
5	86.1	84.1	59.7
6	88.8	89.9	63.9
7	85.3	84.2	60.9
8	80.5	76.6	60.9
9	79.1	77.1	47.9
10	83.7	78.1	58.1
11	88.9	84.8	61
12	88.5	85.1	62.3
13	78.7	79.3	64.9
14	85.9	79.8	64.6
15	77.8	84.6	55
16	83.9	80.5	66.7
17	84.0	87.4	62.6

			52.7
18	92.3	80.8	
19	76.9	79.7	51.6
20	60.0	38.5	52
21	80.0	56.0	59.2
88			55.2
99			31.3

Indicator 5b by organisation and cluster

Source: MHMDS

Of the total number of people in the dataset, in Q2 2010/2011 there were 5,210 people who were on CPA aged 18 to 69. Of these, 48.9% were recorded as being in settled accommodation in the last 12 months. In Q3 2010/2011 there were 10,447 people who were on CPA aged 18 to 69. Of these, 46.1% were recorded as being in settled accommodation in the last 12 months.

For comparison, for Q2 2010/2011 the national value for those with a valid settled accommodation status across all providers nationally was 67.7%. For Q3 2010/2011 the national value for those with a valid settled accommodation status was 69.5%. Information taken from indicator 1 from the Mental Health Service Performance Indicators published at http://www.ic.nhs.uk/services/mhmds/quarterly

Table 9 shows the percentage of people on CPA aged between 18 and 69 who had a settled accommodation code by provider and cluster.

Table 9

	Organisation Code											
	1		2		3		4		5		6	
PbR Cluster	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3
0			39.7	46.1								
1		46.1	56.0	42.5		60.0	100.0	85.7		80.0		
2	50.0	47.4	58.9	44.8		62.1	100.0	90.9				
3	50.0	48.1	51.6	51.1		48.8		71.4		33.3		100.0
4	60.0	48.2	49.2	58.1		66.7		100.0		25.0		
5	75.0	51.9	46.9	40.6		62.1		100.0		50.0		
6		42.9	49.0	34.9		75.0				75.0		100.0
7	100.0	57.1	43.0	40.3		67.6		100.0	100.0	27.8		100.0
8	57.1	43.4	45.8	36.8		55.6		100.0		25.0		100.0

#												
9		66.7	63.6	45.2						100.0		
10	50.0	54.5	44.2	41.6		51.4		100.0	20.0	47.1		
11	57.7	42.8	43.1	40.2		67.9	100.0	100.0		38.0		80.0
12	45.0	44.2	48.6	45.9		40.5		100.0		27.6		100.0
13	65.2	48.7	45.2	45.9		87.5	100.0	100.0		39.7		100.0
14		47.2	43.6	38.5		66.7		100.0		100.0		
15	50.0	69.0	38.0	42.3		55.0						
16	33.3	53.4	41.6	47.1		63.0				22.2		
17	100.0	55.0	52.9	67.5		50.0		100.0		27.3		100.0
18		42.9	61.5	37.5		50.0				100.0		
19	33.3	41.3	30.0	40.0		83.3				16.7		
20	100.0	8.6	42.9	7.1								
21		25.0	80.0	33.3		66.7				25.0		

Table 10 shows the percentage of people on CPA in settled accommodation aged between 18 and 69 who by provider and cluster.

Table 10: Indicator 5b – Percentage in settled accommodation by cluster and trust

	CPPP	1	3	4	5	6	7
0	60.5	41.7	75	53.3	71.4	75	47.6
1	62.9	27	82.3	54.6	87.3	34	18.5
2	64.8	25.8	76	55.2	88.8	18.5	32.6
3	55.8	18.6	83	56.1	78.7	22.9	25.6
4	58.3	21.4	86.8	56.1	85	18.6	18.9
5	59.7	50	93.3	57.1	91.1	32.1	18.3
6	63.9	46.7	86.7	56.6	86.8	25	23.5
7	60.9	34.5	88.3	56.6	93.1	22.7	32.6
8	60.9	87.5	90	55.3	90.2	20.7	32.3
9	47.9	10	66.7	60	65	20	15.4
10	58.1	52.6	80.3	54.2	90.7	45.2	16
11	61	63.2	89.5	58.8	87.3	34.3	40.1
12	62.3	71.4	91.1	59.7	85.1	42.1	32.6
13	64.9	64.2	88.8	60.7	83.4	32.3	47.3
14	64.6	50	93.9	55.6	91.9	38.7	27.8
15	55	0	90	52.8	88.9	12.5	22.2
16	66.7	75	90.2	56.8	95.9	40	45.9
17	62.6	93	95.5	58.2		30.2	57.6
18	52.7	33.3	69.2	57.8	50	22.2	12.5
19	51.6	33.3	77.1	60.2	45.5	100	20
20	52	50	66.7	57.7	75	8.7	47.6
21	59.2	100	73.3	62.5	28.6	100	45.5
88	55.2	0	0	55.2	0	0	0
99	31.3	0	0	66.7	0	27.9	0

Indicator 5b: Percentage in settled accommodation - summary

- There is surprisingly little variation by cluster.
- Although there is no consistency in the cluster most likely to have a valid settled accommodation indicator, the least likely to have a valid settled accommodation indicator is Cluster 20 (Cognitive Impairment or Dementia Complicated - High Need)

Indicator 6a - Employment status- completeness

Indicator: Proportion of adults on Care Programme Approach receiving secondary mental health services that have a valid entry recorded for their employment status

Numerator: The number of people aged between 18 and 69 who accessed secondary mental health services during the quarter and were either on CPA at the end of the reporting period or had a period of care on CPA within the reporting period, that had a valid entry for employment. The employment status used is the most recent entered for the patient in the last 12 months. Valid entries are those with employment status values of 01, 02 or 03.

Denominator: The number of people aged between 18 and 69 who accessed secondary mental health services during the quarter and were either on CPA at the end of the reporting period or had a period of care on CPA within the reporting period

IC data analysis

Of the total number of people in the dataset, in Q2 2010/2011 there were 5,210 people who were on CPA aged 18 to 69. Of these, 46.3% had a valid employment status in the last 12 months. In Q3 2010/2011 there were 10,447 people who were on CPA aged 18 to 69. Of these, 45.8% had a valid employment status in the last 12 months.

For comparison, for Q2 2010/2011 the national value for those with a valid employment status across all providers nationally was 74.3%. For Q3 2010/2011 the national value for those with a valid employment status was 76.1%. Information taken from indicator 2a from the Mental Health Service Performance Indicators published at http://www.ic.nhs.uk/services/mhmds/quarterly

Table 11 shows the percentage of those on CPA aged 18 to 69 who had a valid employment status in each cluster.

Table 11

PbR Cluster	Q2 2010/2011	Q3 2010/2011
0	77.4	74.3
1	86.3	84.6
2	85.8	83.2
3	79.4	73.3
4	70.9	72.1
5	69.5	70.4
6	78.6	74.8
7	78.0	77.3
8	81.7	82.1
9	87.6	82.1

10	92.0	84.1
11	80.1	78.2
12	84.0	84.9
13	84.3	86.7
14	80.8	84.0
15	74.1	80.3
16	86.0	88.0
17	96.0	91.2
18	76.9	57.7
19	53.8	63.5
20	53.3	51.9
21	80.0	44.0

Frequency: Quarterly

Source: MHMDS

Table 12 shows the percentage of people on CPA aged between 18 and 69 who had a valid employment code by provider and cluster.

Table 12

| | Organisation Code | | | | | | | | | | | |
| | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | |
PbR Cluster	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3
0			37.7	49.1								
1	50.0	47.4	52.6	43.7		66.7	100.0	85.7		80.0		
2	50.0	49.1	59.2	43.9		69.0	100.0	100.0		16.7		
3	50.0	46.8	44.7	41.4		51.2		71.4		41.7		100.0
4	40.0	43.6	38.9	47.1		66.7		100.0		37.5		
5	75.0	53.2	32.7	30.3		62.1		100.0		50.0		
6		42.9	38.8	32.1		75.0				75.0		100.0
7	100.0	52.0	37.4	31.9		73.5		100.0	100.0	44.4		100.0
8	71.4	52.2	47.1	40.4		66.7		100.0		25.0		100.0
9		33.3	66.7	48.9						100.0		
10	71.4	57.5	48.7	43.6		55.0		100.0	60.0	58.8		
11	53.8	43.5	37.7	34.5		71.6	100.0	94.4		50.0		80.0
12	50.0	48.0	44.9	42.6		45.2		100.0		29.3		100.0
13	65.2	52.5	48.8	51.4		87.5	100.0	100.0		44.8		100.0
14		56.6	42.3	37.5		66.7		100.0		100.0		
15	50.0	59.5	34.0	40.4		70.0						
16	33.3	60.2	44.7	51.3		78.3		100.0		33.3		
17	100.0	55.0	58.6	74.6		50.0		100.0		31.8		75.0
18		14.3	46.2	43.8		50.0						
19	33.3	23.9	20.0	40.0		91.7				33.3		
20	100.0	11.4	28.6	14.3								
21		25.0	80.0	16.7		66.7						

Indicator 6b - Employment status – in employment

Indicator: Proportion of adults on Care Programme Approach receiving secondary mental health services in employment

Numerator: The number of people aged between 18 and 69 who accessed secondary mental health services during the quarter and were either on CPA at the end of the reporting period or had a period of care on CPA within the reporting period, that were recorded as being employed. The employment status used is the most recent entered for the patient in the last 12 months.

Denominator: The number of people aged between 18 and 69 who accessed secondary mental health services during the quarter and were either on CPA at the end of the reporting period or had a period of care on CPA within the reporting period

In the NHS IC dataset, in Q2 2010/2011 there were 5,210 people who were on CPA aged 18 to 69. Of these, 46.3% were recorded as being in employment in the last 12 months. In Q3 2010/2011 there were 10,447 people who were on CPA aged 18 to 69. Of these, 45.8% were recorded as being in employment in the last 12 months.

For comparison, for Q2 2010/2011 the national value for those recorded as being in employment in the last 12 months was 8.8%. For Q3 2010/2011 the national value for those were recorded as being in employment in the last 12 months was 8.8%. Information taken from indicator 2 from the Mental Health Service Performance Indicators published at http://www.ic.nhs.uk/services/mhmds/quarterly

Table 13 shows the percentage or number of patients of those on CPA aged 18 to 69 who were in employment.

Table 13

PbR Cluster	MHMDS Q2 2010/2011	MHMDS Q3 2010/2011	CPPP (no of patients)
0	11.6%	12.6%	260
1	23.8%	18.8%	832
2	21.8%	20.0%	1181
3	15.2%	14.8%	2229
4	11.8%	15.8%	1689
5	12.6%	6.9%	521
6	17.3%	15.8%	468
7	8.3%	7.7%	1111
8	12.8%	9.6%	1332
9	5.4%	4.3%	116
10	10.4%	9.0%	1680
11	10.6%	9.1%	4541
12	3.3%	4.3%	2476
13	3.7%	3.8%	1369
14	14.1%	10.4%	357
15	9.3%	7.7%	121
16	1.6%	1.8%	457
17	2.7%	3.3%	1024
18	0.0%	0.0%	93
19	0.0%	2.7%	191
20	0.0%	1.9%	172
21	0.0%	0.0%	72
88			57
99			67

Table 14 shows the percentage of people on CPA aged between 18 and 69 who were recorded as being in employment by provider and cluster.

Table 14

PbR Cluster	Organisation Code											
	1		2		3		4		5		6	
	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3
0			5.5	9.6								
1		2.6	16.8	10.7		6.7	50.0	28.6		20.0		
2		9.6	15.5	12.5		27.6	33.3	18.2				
3		7.1	11.4	11.3		4.9				8.3		
4		6.4	6.2	15.3				50.0				
5		2.6	4.8	4.8		3.4						
6			6.1	6.4								
7		4.1	4.7	4.2		2.9				11.1		33.3
8		3.1	7.4	6.5								
9			3.9	2.2								
10		8.5	5.2	6.4		2.3		33.3				
11	3.8	4.1	6.1	4.8		0.9		5.6		8.0		20.0
12		3.5	1.4	1.9								
13	4.3	2.0	3.6	4.5				12.5		1.7		
14		1.9	9.0	5.8				100.0				
15	25.0	11.9	8.0	3.8								
16		1.9	1.1			2.2						
17	20.0	3.5										
18												
19		2.2										
20												
21												

CPPP data in Table 15 shows the number of people recorded as being in employment by cluster and Trust.

Table 15: Indicator 6b – Percentage in employment by cluster and trust

	CPPP	1	3	4	5	6	7
0	10.8	8.3	20.3	9.7	0.0	25.0	4.8
1	8.7	1.6	22.8	14.0	0.0	6.4	0.0
2	7.1	0.0	20.0	12.1	0.0	4.6	8.7
3	10.3	2.9	31.8	12.0	0.0	6.3	4.4
4	12.2	0.0	37.0	14.6	0.0	4.7	4.2
5	6.5	0.0	36.7	11.2	0.0	5.4	0.0
6	12.2	0.0	35.0	18.9	0.0	0.0	5.9
7	8.8	3.4	26.6	7.5	0.0	5.7	7.4
8	5.4	6.3	10.0	8.2	0.0	1.7	1.9
9	2.6	0.0	4.2	7.1	0.0	20.0	0.0
10	11.6	10.4	26.5	18.8	0.0	16.1	1.1
11	7.1	4.4	23.8	6.7	0.0	7.8	6.1
12	4.2	1.8	16.9	3.8	0.0	8.8	2.4
13	3.6	3.8	10.0	2.9	0.0	3.2	5.0
14	6.2	25.0	9.1	10.5	0.0	6.5	5.6
15	11.6	0.0	40.0	18.5	0.0	0.0	0.0
16	3.5	0.0	9.8	3.7	0.0	8.0	4.1
17	3.4	0.0	6.3	4.1	0.0	2.4	4.1
18	14.0	0.0	19.2	13.3	0.0	11.1	12.5
19	5.2	0.0	8.6	7.1	0.0	0.0	0.0
20	9.3	0.0	5.6	12.8	0.0	4.3	9.5
21	12.5	0.0	6.7	21.2	0.0	0.0	9.1
88	12.3			12.3	0.0		
99	6.0			33.3	0.0	3.3	
Total	7.6	3.5	22.2	9.5	0.0	6.8	4.0

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Indicator 6b: Percentage in employment - summary

- As 5b, seems not to be linked to cluster.
- National data has higher numbers in employment, in lower clusters.
- Nationally, employment status is only monitored for people who are on CPA
- The Mental Health Provider Forum Recovery Star analysis shows that employment is the area where people are making least progress.

Indicator 7 - Equity of access – ethnicity

Indicator: Ethnic coding data quality

Numerator: Care spells with valid coding (excluding "not stated" and "not known")

Denominator: Total Care spells which include a care element (see IC definitions for IC_CARE_STATUS for "admitted" and "only non-admitted", MHMDS Statistics: Data Quality and Methodology)

Frequency: quarterly

Source: MHMDS

IC data analysis

In Q2 2010/2011 of the total 9,037 people who were clustered, 93.4% had a code recorded for ethnicity. For Q3 2010/2011 of the total 22,085 people who were clustered 95.0% had a code recorded for ethnicity. These values include all codes irregardless of whether it was valid or default.

In Q2 2010/2011 of the total 9,037 people who were clustered, 92.8 had a valid ethnicity code. In Q3 2010/2011 of the total 22,085 people clustered 92.9% had a valid code for ethnicity recorded. Valid codes are those recorded as A, B, C, D, E, F, G, H, J, K, L, M, N, P and R. This compares to the national data quality recorded of 90.0% for Q2 2010/2011 which is published in the Organisation level data quality reports found at http://www.ic.nhs.uk/services/mhmds/dq There is no report published for Q3 2010/2011 as the refresh data has not yet been received.

Table 16 shows the break down of ethnicity by cluster. It has not been provided at provider level due to the size of the table. For completeness, the key to ethnicity is as follows:
A British
B Irish
C Any other White background
D White and Black Caribbean
E White and Black African
F White and Asian
G Any other mixed background

H Indian
J Pakistani
K Bangladeshi
L Any other Asian background
M Caribbean
N African
P Any other Black background
R Chinese
S Any other ethnic group
Z Not stated

Table 16

Ethnicity	Quarter	PbR_Cluster																					
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
A	Q2	3.5%	5.0%	16.1%	5.8%	3.6%	2.4%	1.3%	1.7%	5.9%	2.7%	3.3%	14.3%	6.8%	1.2%	1.0%	0.6%	2.2%	0.7%	4.1%	1.2%	1.9%	0.6%
	Q3	1.5%	4.0%	9.0%	6.6%	4.0%	1.9%	1.0%	1.9%	3.9%	1.2%	3.9%	9.6%	4.7%	2.0%	0.7%	0.6%	1.8%	2.7%	4.5%	2.8%	1.7%	1.0%
B	Q2	0.0%	0.0%	0.0%	0.0%			0.0%	0.0%	0.0%			0.1%	0.0%				0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
	Q3	0.0%	0.1%	0.1%	0.2%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.2%	0.2%	0.1%	0.0%	0.0%	0.1%	0.1%	0.1%	0.2%	0.1%	0.0%
C	Q2	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%		0.2%	0.1%	0.0%	0.0%			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Q3	0.0%	0.2%	0.2%	0.4%	0.2%	0.1%	0.1%	0.2%	0.1%	0.0%	0.3%	0.6%	0.3%	0.3%	0.0%	0.0%	0.1%	0.2%	0.3%	0.3%	0.2%	0.1%
D	Q2	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%		0.0%			0.0%	0.1%	0.0%				0.0%	0.1%				
	Q3		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%
E	Q2								0.0%									0.0%					
	Q3					0.0%	0.0%		0.0%	0.0%			0.0%	0.0%	0.0%	0.0%			0.0%	0.0%	0.0%		
F	Q2	0.0%			0.0%	0.0%		0.0%					0.0%	0.0%	0.0%			0.0%				0.0%	
	Q3	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
G	Q2			0.0%	0.0%	0.0%	0.0%						0.0%	0.0%									
	Q3		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
H	Q2	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%		0.0%		0.0%	0.0%	0.3%	0.2%	0.1%		0.0%		0.0%	0.0%	0.0%	0.0%	
	Q3	0.0%	0.1%	0.1%	0.2%	0.1%	0.1%	0.0%	0.1%	0.1%	0.0%	0.1%	0.6%	0.5%	0.3%	0.0%	0.0%	0.1%	0.1%	0.2%	0.3%	0.1%	0.1%
J	Q2	0.0%	0.0%	0.3%	0.1%	0.1%	0.0%	0.0%		0.0%		0.2%	0.4%	0.1%	0.0%	0.0%	0.0%	0.1%		0.0%			
	Q3	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%	0.2%	0.1%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	
K	Q2			0.1%					0.0%		0.0%		0.1%	0.0%						0.0%			
	Q3		0.0%	0.0%	0.0%	0.0%			0.0%	0.0%		0.0%	0.1%	0.1%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%		
L	Q2	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.1%	0.1%	0.1%	0.1%			0.0%	0.0%	0.0%	0.0%	0.0%	
	Q3	0.0%	0.1%	0.1%	0.2%	0.1%	0.1%	0.0%	0.1%	0.1%		0.1%	0.5%	0.4%	0.4%	0.0%	0.0%	0.1%	0.1%	0.1%	0.2%	0.1%	0.1%
M	Q2	0.1%	0.0%	0.1%		0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%		
	Q3	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.5%	0.4%	0.3%	0.0%		0.1%	0.1%	0.1%	0.2%	0.1%	0.0%
N	Q2	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%		0.0%		0.1%	0.2%	0.1%	0.0%	0.0%			0.0%		0.0%		
	Q3	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%		0.2%	0.6%	0.3%	0.3%	0.1%	0.0%	0.1%	0.2%	0.0%	0.1%	0.0%	0.0%
P	Q2			0.0%	0.0%	0.0%		0.0%				0.0%	0.1%		0.0%		0.0%	0.0%	0.0%				
	Q3		0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%		0.1%	0.5%	0.3%	0.3%	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%
R	Q2								0.0%				0.0%	0.0%								0.0%	
	Q3		0.0%			0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%					0.0%	0.0%	0.0%	0.0%
S	Q2		0.1%	0.1%	0.1%	0.0%	0.0%		0.0%	0.0%		0.0%	0.2%	0.0%	0.0%						0.0%	0.0%	
	Q3		0.1%	0.1%	0.3%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.4%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%	0.0%

Indicator 9a - Section usage

Indicator: Proportion of inpatients detained on section 2 or 3 of the Mental Health Act

Numerator: number of people whose highest legal status equates to section 2 or 3, in the reporting period broken down by cluster.

Denominator: number of inpatient episodes in the open during the period (this will include opened during, closed during and open throughout the period). Broken down by cluster

Table 17

PbR_Cluster	MHMDSQ2 2010/2011 (%)	MHMDS Q3 2010/2011(%)	CPPP No. of patients
0	57.8	54.5	52
1	20.8	26.2	126
2	25.9	28.8	158
3	15.6	26.2	245
4	36.1	28.0	217
5	41.2	37.1	73
6	50.0	47.1	37
7	72.7	54.3	77
8	53.4	42.5	176
9	14.6	15.0	43
10	58.7	63.1	178
11	56.4	59.8	329
12	71.1	69.6	226
13	76.9	72.1	192
14	61.9	66.7	123
15	53.3	59.5	27
16	57.1	63.3	99
17	89.3	82.5	205
18	50.0	52.0	46
19	33.3	51.1	143

			87
20	52.2	56.9	
21	==12.5==	==17.5==	30
88			2340
99			66

N.B. MHMDS Assembler rule

Table 17 shows the number of proportion of people or number of people who were detained on section 2 or 3 against the total number of episodes in the quarter. It is important to note that the numerator is a count of people and so if they were sectioned twice during the quarter on section 2, they will only be counted once yet both periods of detention will appear in the denominator as defined in the definitions. Also, due to the way the MHMDS captures the data, we only have the persons highest legal status in the reporting period. If patient is detained on a legal status higher then a section 2 or 3 we will not have this information. For example if the patient was on section 2 at one point and then moved to a section 43 we will have the patients highest legal history as section 43 and as such they will not appear in the denominator so this may lead to slight undercounting based on how it is currently collected. This is changing in version 4 of the MHMDS. This also applies to Table 18.

Frequency: quarterly

Source: MHMDS

Table 18 shows the breakdown of indicator 9 by provider and cluster.

Table 18

	Organisation Code											
	1		2		3		4		5		6	
PbR Cluster	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3
0			57.8	54.5								
1		14.3	20.8	45.0		20.0						
2		32.0	26.5	30.8		14.3				100.0		
3		28.6	16.1	21.1		26.5				60.0		
4		26.3	37.1	35.7		7.1						
5		36.4	43.8	35.3		42.9						
6		100.0	50.0	40.0		40.0						100.0
7	100.0	75.0	70.0	46.2		38.5				50.0		

8		33.3	53.4	47.3		42.9						
9			14.6	15.0								
10	83.3	78.3	56.5	58.2		62.3		33.3		100.0		
11		55.6	57.0	59.2		67.5		66.7		57.1		
12	25.0	65.2	73.3	70.0		85.0		100.0		77.8		
13	75.0	72.1	77.1	75.6		52.9				91.7		
14		78.8	63.4	60.7		57.1		100.0		50.0		
15		66.7	57.1	28.6		63.2				100.0		
16		57.1	57.1	61.2		73.9				100.0		
17	100.0	81.7	88.5	82.4		100.0		100.0		81.8		100.0
18		100.0	50.0	75.0		27.3						
19		60.9	33.3	40.0		46.2						
20		70.0	52.2	54.2		16.7				100.0		
21		22.2	12.5	38.9		3.7						

Source: CPPP Extract 4

Table 19: Indicator 9 – Percentage inpatients detained on section 2 or 3 of the Mental Health Act

	CPP All	1	2	3	4	5	6
0	9.6		50.0	16.7	0.0	0.0	20.0
1	10.3	33.3	45.5	0.0	4.4	7.1	21.4
2	13.9	0.0	44.4	25.0	3.8	17.9	11.1
3	10.6	25.0	23.5	25.0	2.4	18.4	3.8
4	7.8	50.0	25.0	5.9	0.0	10.9	16.0
5	8.2		22.2	25.0	0.0	11.8	0.0
6	18.9		100.0	0.0	7.7	20.0	40.0
7	15.6		50.0	40.0	4.0	7.1	0.0
8	13.1	100.0	23.1	40.0	9.9	13.0	20.0
9	16.3	0.0	0.0	50.0	16.7	0.0	18.2
10	27.0	0.0	37.5	46.2	25.5	38.9	33.3
11	21.0	40.0	50.0	33.3	12.9	13.9	35.3
12	20.4	28.6	33.3	61.1	11.1	13.3	40.0
13	20.3	75.0	52.8	30.8	2.8	15.0	22.2
14	20.3	75.0	50.0	50.0	7.1	14.3	33.3
15	14.8		100.0	50.0	0.0	25.0	33.3
16	19.2	0.0	58.3	70.0	4.2	13.6	0.0
17	15.6	33.3	61.9	43.8	0.0	0.0	22.9
18	15.2	36.4	50.0	33.3	0.0	0.0	40.0
19	13.3	100.0	81.8	7.7	0.0	8.3	21.4
20	17.2	0.0	33.3	40.0	0.0	26.7	35.3
21	13.3		100.0	0.0	0.0	25.0	
88	18.0		38.5	43.9	6.2	18.4	18.8
99	22.7	15.9	28.6				16.1

Total	17.0	22.7	39.6	37.3	6.2	16.8	21.8

Indicator 9 : Section usage - summary

- The results are misleading and we may want to separate section 2 and 3 (assessment and treatment). CPPP are able to separate data for section 2 and 3 but the MHMDS data shows only the highest legal status in the period so the split for MHMDS data would be people whose highest legal status was 2 from those whose highest legal status was 3.

- More work is required to understand this data and to work out what good looks like before an indicator can be developed.

Indicator 11-   Readmission rates

Indicator: The proportion of people readmitted to in-patient psychiatric care within the 90 days of discharge.

Numerator: The number of people readmitted to in-patient facility within 90 days of discharge

Denominator: The total number of people discharged from a in-patient facility in the reporting period

Frequency: quarterly

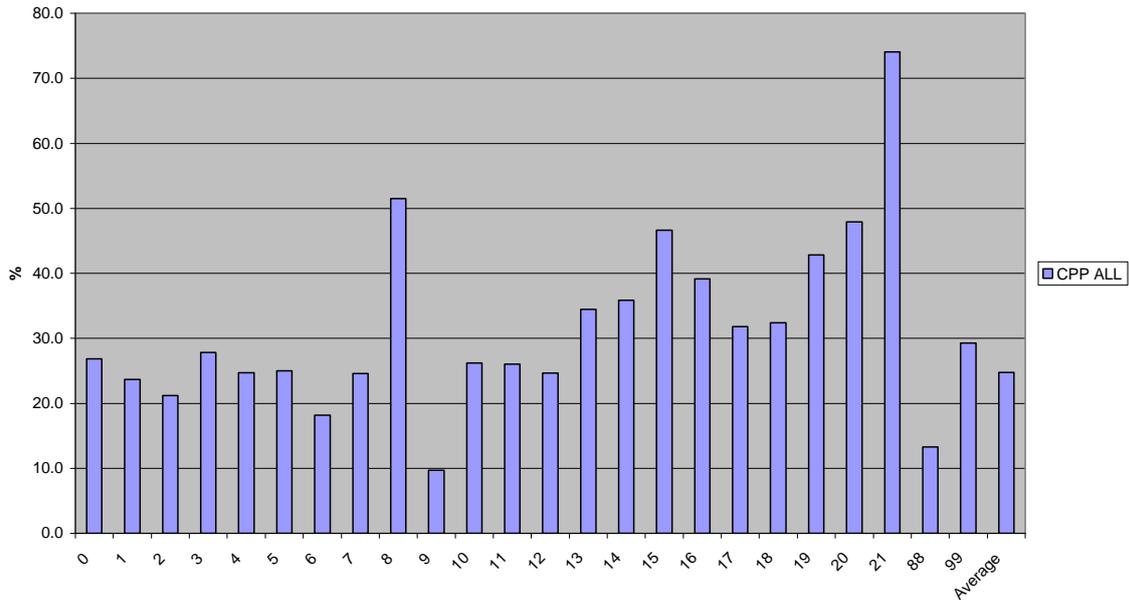**Source:** CPPP Extract 5 (See table 5 for number of patients)

Table 20: Indicator 11 - Percentage readmitted to in-patient psychiatric care within 90 days of discharge.

	YES	NO	Total	IND 11 % readmitted within 90 days of discharge
0	11	30	41	26.8
1	22	71	93	23.7
2	25	93	118	21.2
3	54	140	194	27.8
4	43	131	174	24.7
5	11	33	44	25.0

6	6	27	33	18.2
7	14	43	57	24.6
8	69	65	134	51.5
9	3	28	31	9.7
10	27	76	103	26.2
11	51	145	196	26.0
12	36	110	146	24.7
13	40	76	116	34.5
14	33	59	92	35.9
15	7	8	15	46.7
16	27	42	69	39.1
17	41	88	129	31.8
18	11	23	34	32.4
19	51	68	119	42.9
20	34	37	71	47.9
21	20	7	27	74.1
88	154	1008	1162	13.3
99	12	29	41	29.3
Total	802	2437	3239	24.8

NB Numbers too small to split by Provider.

Indicator 11: Readmission rates

Indicator 11: Readmission rates - summary

- Seems fine. Would expect high rates for cluster 8 and 15.
- There is an anomaly with cluster 21 but this may be due to underlying data rules e.g. the system rule that ward leave should not be more than 28 days long resulting in people being admitted on a PAS and then immediately sent back on leave.
- Would not expect clusters 1- 5 to be admitted and readmitted but the data indicates otherwise.
- further work needs to be done on a national definition for use with MHMDS e.g. is it readmission only to the same provider.

Indicator 12a - Average Number of bed days

Indicator: Average number of bed days broken down by diagnosis and cluster

Numerator: Total number of bed days

Denominator: The number of people who have been in contact with specialist mental health services in the same year
Indicator should be broken down by cluster if data is available

NHS IC data analysis
Table 21 below shows the average number of bed days broken down by cluster.

Table 21

PbR_Cluster	Q2 2010/2011	Q3 2010/2011	CPPP (all)
0	5	3	1.17

1	1	1	0.67
2	1	1	1.34
3	1	1	0.94
4	3	2	1.65
5	2	2	3.28
6	2	2	1.22
7	2	4	2.42
8	2	5	4.19
9	2	2	1.14
10	7	4	3.91
11	3	3	2.38
12	6	6	6.09
13	16	12	10.87
14	18	15	12.91
15	7	7	8.95
16	6	8	6.7
17	16	6	9.96
18	1	1	0.4
19	3	2	1.54
20	5	5	5.59
21	4	4	6.34
88			3.35
99			2.92

Frequency: quarterly

Source: MHMDS

Table 22 shows the breakdown of average bed days by provider and by cluster.

Table 22

PbR Cluster	Organisation Code											
	1		2		3		4		5		6	
	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3	Q2	Q3
0			5	3								
1	0	0	2	2		2	0	0		1		
2	1	3	1	1		1	10	1		5		0
3	0	1	1	1		2		4	6	1		2
4	1	2	3	2		1		0		0		0
5	1	3	2	1		2		0		0		
6	0	0	3	3		1				0		30
7	3	4	2	3		6		0	0	1		0
8	0	7	2	4		5		0		2		0
9		0	2	3						0		
10	17	4	7	6		3		19	0	3		
11	0	2	3	3		9	0	17	0	4		0
12	8	6	6	5		15		23		3		0
13	4	12	20	15		22	0	7		5		0
14	20	17	18	14		21		24		3		
15	2	8	8	2		17				2		
16	0	7	6	6		22		0		4		
17	5	12	18	20		0		55		6		6
18	0	0	1	1		1			0	1		0
19	0	2	4	3		3			0	1		0
20	0	3	5	6		16				4		
21	0	2	5	8		4				8		

CPPP Data Analysis

Source: CPPP Extract 6

Table 23: Indicator 12a - Average number of bed days by cluster and trust

Cluster	CPPP (all)	1	2	3	4	5	6	7
0	1.17	0.66	2.32	0.36	0.22	2.23	1.77	2.21
1	0.67	0.26	0.99	0.3	0.73	0.84	0.81	0.4
2	1.34	0.6	1.98	0.33	0.95	2.14	1.05	0.48
3	0.94	0.22	1.26	0.62	1.41	1.13	0.61	0.6
4	1.65	2.22	1.42	1.31	2.2	2.08	1.24	1.17
5	3.28	0	3.12	5.77	4.22	4.69	0.7	2.09
6	1.22	2.31	0.97	0.49	1.36	2.05	0.87	0.44
7	2.42	0	3.23	2.1	2.2	3.3	1.95	2.12
8	4.19	5.89	3.52	3.07	3.8	5.53	4.45	3.24
9	1.14	0.13	0	0.97	1.12	0.82	2.16	2.28
10	3.91	2.22	4.58	2.66	3.46	4.79	4.54	4.05
11	2.38	2.8	3.97	1.92	2.91	2.4	1.4	2.14
12	6.09	2.97	5.18	3.78	5.32	10.3	4.28	4.06
13	10.87	8.62	10.39	5.89	12.99	15.44	8.23	6.64
14	12.91	0	13.22	22.11	12.54	15.43	11.9	6.47
15	8.95	16.75	5.41	13.35	6.18	11.18	24.3	3.7
16	6.7	7.38	6.69	6.16	5.4	9.79	7.76	4.68
17	9.96	6.95	10.71	8.12	9.93	12.97	12.68	8.29
18	0.4	1.38	0.37	0.15	0.33	1.21	0.32	0.32
19	1.54	5.12	1.6	0.78	1.46	3.85	0.81	1.19
20	5.59	1.6	3.64	1.72	6.49	9.76	4.16	4.17
21	6.34	0	3.57	0.02	4.71	22.79	5.5	2.34
88	3.35	0			3.45			
99	2.92						3.7	

Indicator 12a: Average number of bed days - summary

- Peaks are where expected on average but still some variability between trusts.
- Data consistent between IC and CPPP
- Data probably skewed by long term care services eg. Rehab and forensic.

Indicator 12b - Bed days greater than 90 days

Indicator: Proportion of people with severe mental illness(1) spending more than 90 days in a given year in in-patient psychiatric care

Numerator: The number of people who have spent more than 90 days of a given year in an inpatient psychiatric ward (person only counted once)

Denominator: the number of people who have been in contact with specialist mental health services in the same year (2)

Notes (1) Being in contact with a specialist MH services is taken as a good proxy for having an SMI

(2) The indicator applies correctly when both the numerator and the denominator have the same coverage eg people cared for by the same specialist MH provider or across a large region such as an SHA or England as a whole

Frequency: tbc

Source: MHMDS

NHS IC data analysis
This analysis is still being updated. Attached in the excel spreadsheet is the break down for each quarter for people who have spent 90 days or more in the quarter. The numbers, as expected are very low. The analysis that is still ongoing is the combination of bed days for people over the 6 month period that the IC has access to clustered data for. This analysis will follow very shortly.

Indicator 12c - Length of Stay

Numerator: The number of psychiatric inpatient stays which are above
a fixed benchmark (where benchmark is the national upper quartile LOS for a base year)

Denominator: The total of finished episodes during reference period

NHS IC data analysis
This proportion should be broken down by major diagnostic category (ICD10) as follows:

F00-F09	Organic, including symptomatic, mental disorders
F10-F19	Mental and behavioural disorders due to psychoactive substance use
F20-F29	Schizophrenia, schizotypal and delusional disorders
F30-F39	Mood [affective] disorders
F40-F48	Neurotic, stress-related and somatoform disorders
F50-F59	Behavioural syndromes associated with physiological disturbances and physical factors
F60-F69	Disorders of adult personality and behaviour
F80-F89	Disorders of psychological development
F90-F98	Behavioural and emotional disorders with onset usually occurring in childhood and adolescence
F99	Unspecified mental disorder

The information for this indicator has been provided in the Excel spreadsheet attached.

However it should be noted that no analysis of this has been undertaken at this time as the benchmark for the upper quartile LOS has not yet been defined. As soon this information is made available the analysis will be undertaken.

Appendix A

The embedded excel spreadsheet below contains the information on each of the indicators that has been provided. It also includes the breakdown by provider and by quarter where these relevant additional analyses are required.

PbR P&O
indicators.xls