# National Mental Health Benchmarking Project



An Australian Government funded initiative

# **COMPARATIVE INDICATORS**

3-year time series 2004-05 to 2006-07

**Forensic Mental Health Services Forum** 

Version 1.0 Summary for Public Release

Australian Mental Health Outcomes and Classification Network November 2008

This document was prepared from a more detailed version developed for restricted use by organisations participating in the National Mental Health Benchmarking Project. By agreement of all organisations, this version of the indicators has been prepared for wider use and unrestricted distribution. All identifying details and source data tables have been removed from this version.



#### **Contents**

# What this package contains

This document is organised into three parts.

#### PART A - Summary table and charts of the 13 national KPIs (Pages 4 - 8)

This part presents the national KPIs for each of the organisations in tabular and graphical format. All KPIs are derived from the data submitted by each organisation for each of the years 2004-05, 2005-06 and 2006-07, and constructed according to the specifications and definitions described in National Mental Health Benchmarking Project Manual.

#### PART B - Selected indicators grouped by themes

(Pages 11 - 32)

This part groups the national KPIs, plus a number of supplementary indicators, into nine themes.

- 1. Comparative resources available to the organisation
- 2. Efficiency in use of resources
- 3. Productivity and activity of ambulatory services
- 4. Continuity of care
- 5. Access to ambulatory care
- 6. Access to acute inpatient care
- 7. Safety (ACHS Indicators)
- 8. Capability
- 9. Acute Inpatient casemix (a) Diagnosis and (b) HoNOS at admission

The themes were selected only on the basis of what is feasible from the available data. They were not intended to restrict participating organisations to the eight categories, nor pre-empt where organisations focused their benchmarking effort.

All supplementary indicators are derived from source data submitted by organisations in their KPI workbooks. These details are not included in this public release version of the document. Details on how the supplementary indicators are constructed are however provided at the end of this Part of the document (pages 26-32).

#### PART C - Source data tables

Omitted from this public release version.

# **Version History**

# **Version history**

Version	Preparation date	Details
1.0	20-Nov-08	First public release version, using final validated data as signed off by participating organisations.

# PART A Summary table and charts of the 13 national KPIs

# **KPI Summary Table**

	KPI Summary Table		FORENSIC SERVICES - 3 year trends				
	NOTE: The indicators shown below are based on the calculation approach described in the Technical Specifications document and do not show any of the alternative approaches developed for several of the indicators.		Org-D	Org-C	Org-B	Org-A	GROUP AVG.
KPI #1	28-day readmissions	2004-05	3.7%	0.0%	n.a	2.4%	2.0%
		2005-06	2.2%	5.0%	0.0%	3.5%	2.7%
		2006-07	2.0%	1.8%	0.0%	4.1%	2.0%
KPI #2	National Standards compliance (Level 1)	2004-05	100%	0%	100%	100%	75%
		2005-06	100%	100%	100%	100%	100%
		2006-07	100%	100%	100%	100%	100%
KPI #3	Average acute LOS	2004-05	50.3	93.4	106.2	22.1	68.0
		2005-06	53.5	83.7	222.7	19.5	94.9
		2006-07	70.9	72.8	134.7	18.1	74.1
KPI #4	Average acute episode cost	2004-05	\$47,883	\$69,693	\$75,847	\$25,081	\$54,626
		2005-06	\$49,224	\$28,288	\$170,972	\$23,634	\$68,029
		2006-07	\$67,445	\$25,257	\$107,856	\$22,134	\$55,673
KPI #5	Treatment days per 3-month community care period	2004-05	6.4	3.5	3.7	10.4	6.0
		2005-06	6.8	4.5	3.2	7.2	5.4
		2006-07	6.4	4.1	2.9	10.0	5.9
KPI #6	Cost per 3-month community care period	2004-05	\$2,358	\$2,877	\$968	\$4,614	\$2,704
		2005-06	\$3,504	\$1,477	\$917	\$4,970	\$2,717
		2006-07	\$4,693	\$1,349	\$1,238	\$5,095	\$3,094

# KDI Summary Table

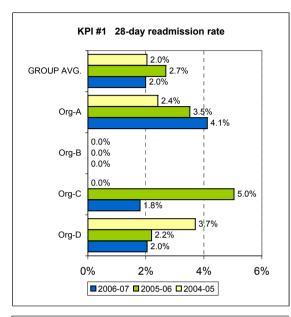
	KPI Summary Table		FORENSIC SERVICES - 3 year trends				
	NOTE: The indicators shown below are based on the calculation approach described in the Technical Specifications document and do not show any of the alternative approaches developed for several of the indicators.		Org-D	Org-C	Org-B	Org-A	GROUP AVG.
KPI #7	% target population receiving ambulatory services	2004-05	0.025%	0.028%	0.086%	0.017%	0.039%
		2005-06	0.023%	0.080%	0.090%	0.031%	0.056%
		2006-07	0.020%	0.125%	0.136%	0.030%	0.078%
	% target population receiving inpatient services	2004-05	0.004%	0.003%	0.003%	0.017%	0.007%
		2005-06	0.003%	0.003%	0.003%	0.020%	0.007%
		2006-07	0.003%	0.003%	0.003%	0.018%	0.007%
	% target population receiving residential services	2004-05					0.000%
		2005-06					0.000%
		2006-07					0.000%
KPI #8	Local access to inpatient care	2004-05	n.a	n.a	100%	100%	100%
		2005-06	100%	n.a	100%	100%	100%
		2006-07	n.a	n.a	100%	100%	100%
KPI #9	New client index	2004-05	46%	73%	35%	66%	55%
		2005-06	45%	79%	57%	79%	65%
		2006-07	47%	69%	66%	79%	65%
KPI #10	Area per capita resources - Ambulatory services	2004-05	\$0.56	\$2.29	\$0.89	\$1.02	\$1.19
		2005-06	\$0.68	\$1.70	\$1.03	\$1.03	\$1.11
		2006-07	\$0.80	\$1.96	\$1.99	\$1.11	\$1.46

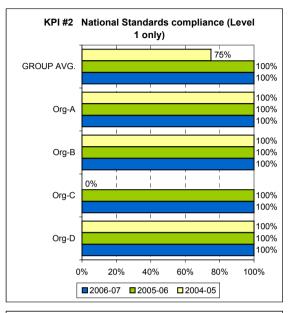
# KDI Summary Table

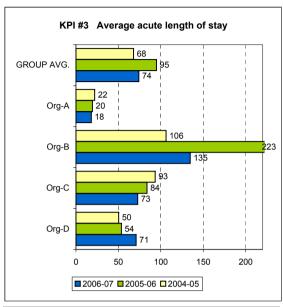
	KPI Summary Table		FORENSIC SERVICES - 3 year trends				
	NOTE: The indicators shown below are based on the calculation approach described in the Technical Specifications document and do not show any of the alternative approaches developed for several of the indicators.		Org-D	Org-C	Org-B	Org-A	GROUP AVG.
	Area per capita resources - Inpatient services	2004-05	\$7.63	\$3.64	\$5.29	\$7.29	\$5.96
		2005-06	\$7.21	\$1.91	\$5.86	\$7.36	\$5.58
		2006-07	\$6.82	\$1.94	\$5.11	\$7.93	\$5.45
	Area per capita resources - Residential services	2004-05					\$0.00
		2005-06					\$0.00
		2006-07					\$0.00
KPI #11	Pre admission community care	2004-05	100%	38%	44%	27%	52%
		2005-06	100%	75%	100%	28%	76%
		2006-07	100%	86%	100%	35%	80%
KPI #12	Post discharge community care	2004-05	49%	27%	64%	44%	46%
		2005-06	73%	47%	45%	51%	54%
		2006-07	69%	51%	38%	37%	49%
KPI #13	Outcomes readiness - inpatient services	2004-05	100%	103%	111%	108%	105%
		2005-06	100%	116%	101%	91%	102%
		2006-07	71%	100%	68%	52%	73%
	Outcomes readiness - ambulatory services	2004-05	3%	54%	0%	58%	29%
		2005-06	5%	55%	0%	39%	25%
		2006-07	17%	53%	0%	45%	29%

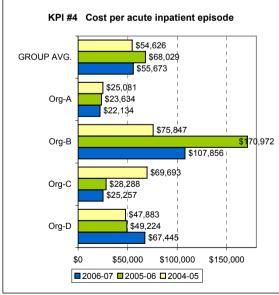
#### **National KPI Charts**

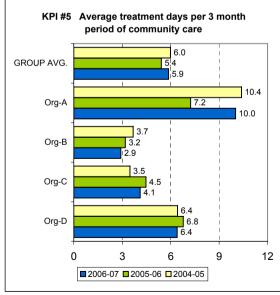
#### The 13 NATIONAL KPIs IN NUMERICAL ORDER

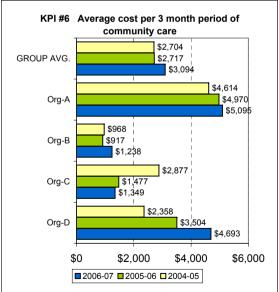






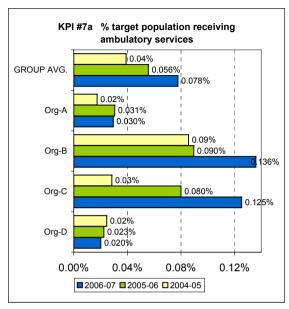


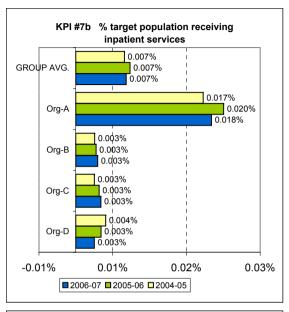


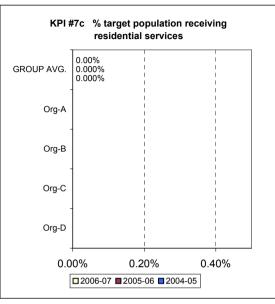


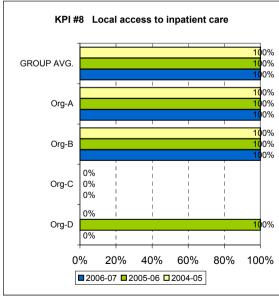
#### **National KPI Charts**

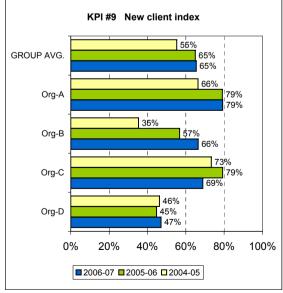
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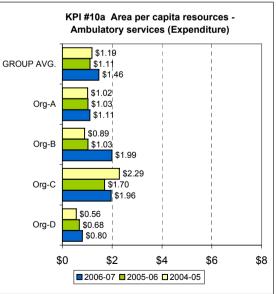






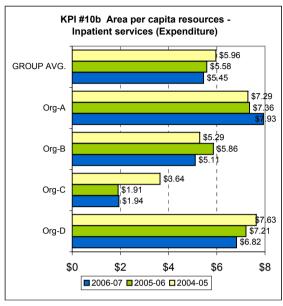


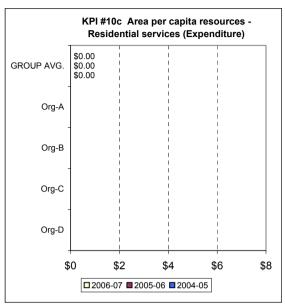


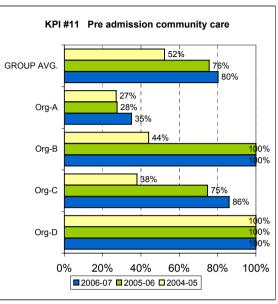


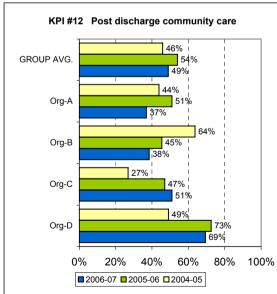
#### **National KPI Charts**

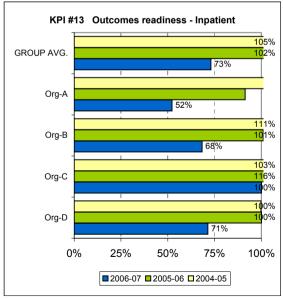
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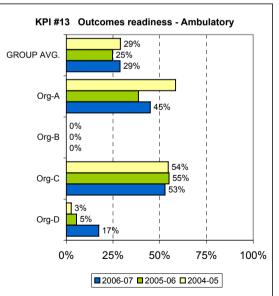










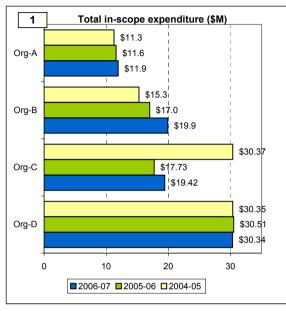


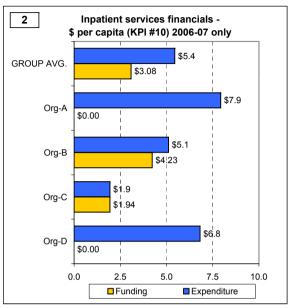
# PART B

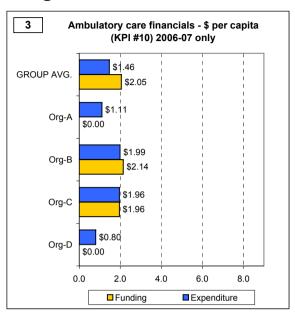
# Selected indicators grouped by themes

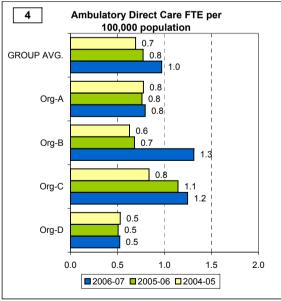
- 1. Comparative resources available to the organisation
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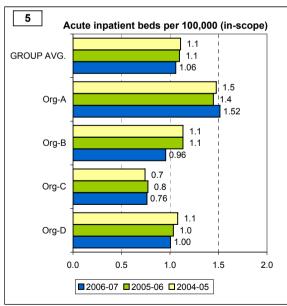
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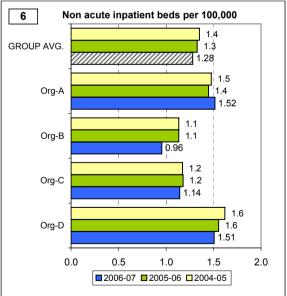




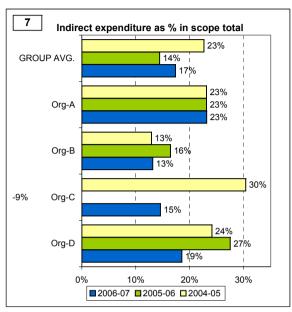


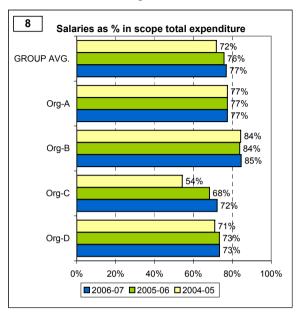


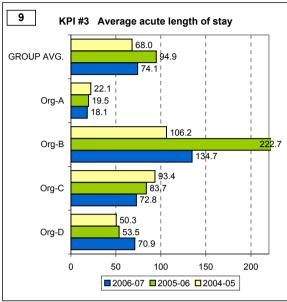


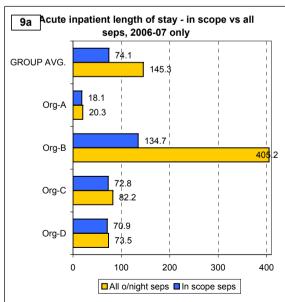


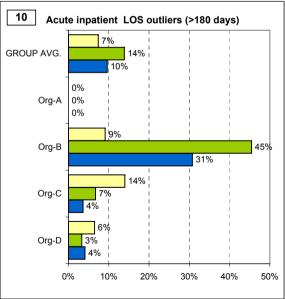
# **THEME 2: Efficiency in use of resources**

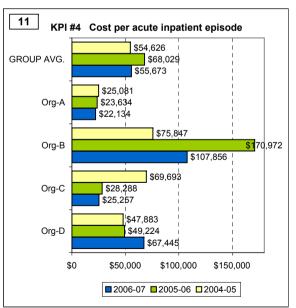




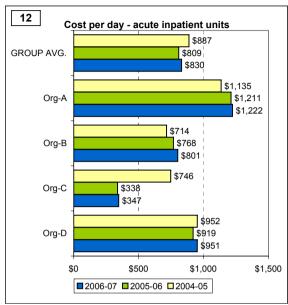


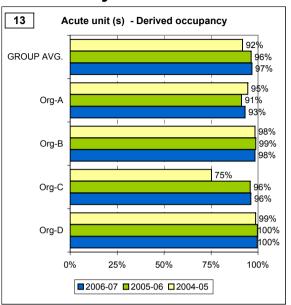


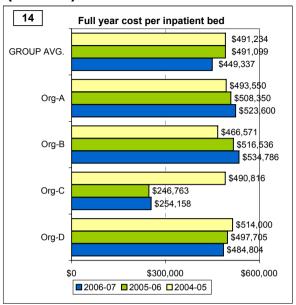




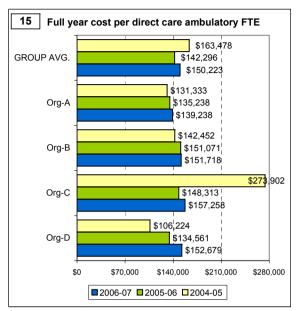
# THEME 2: Efficiency in use of resources (cont'd)

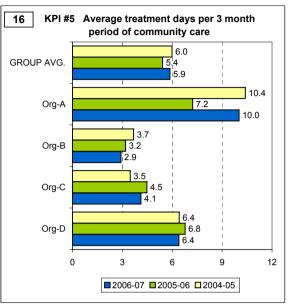


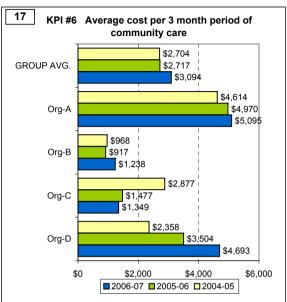


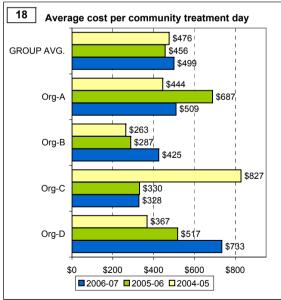


# THEME 2: Efficiency in use of resources (cont'd)

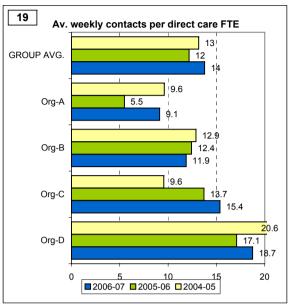


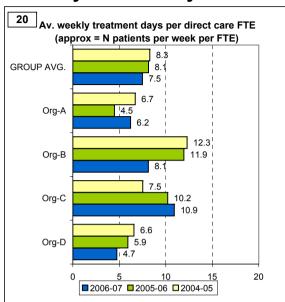


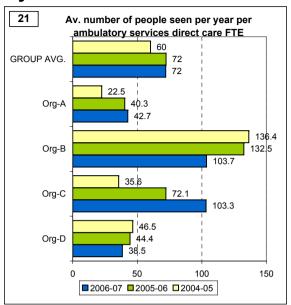


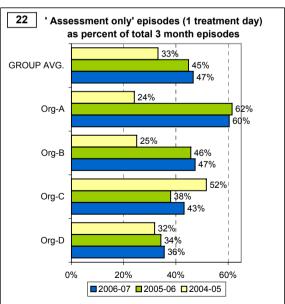


# THEME 3: Productivity and activity of ambulatory services







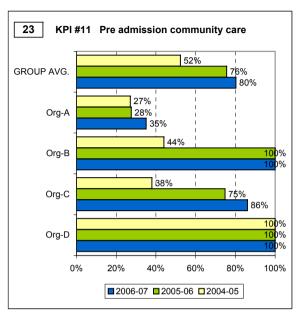


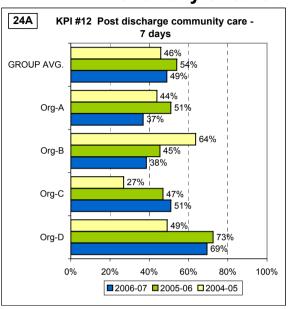
#### Supplementary information reported for KPI #5:

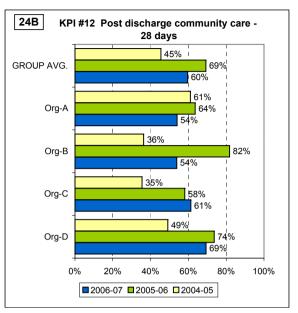
% 'assessment only' episodes by ambulatory service type 2006-07 only

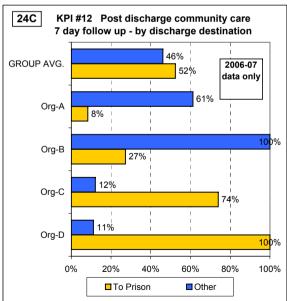
	Org-D	Org-C	Org-B	Org-A
Prison	n.a	0%	76%	n.a
Community	26%	30%	n.a	49%
Court Liaison	57%	56%	40%	80%
Consultation-Liaison	44%	n.a	48%	n.a

# **THEME 4: Continuity of care**

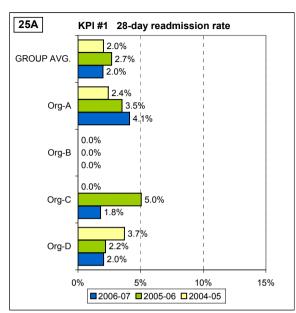


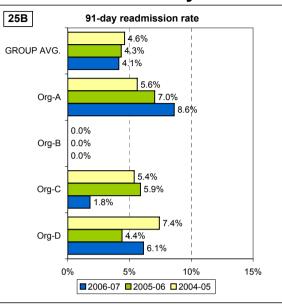


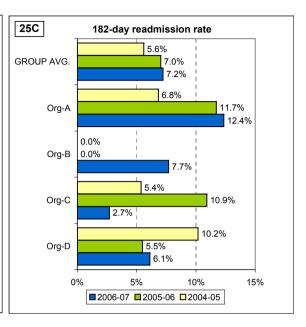


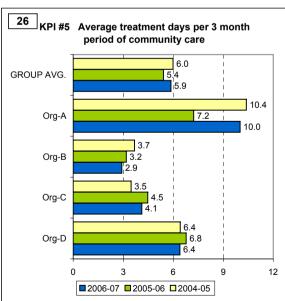


# **THEME 4: Continuity of care**

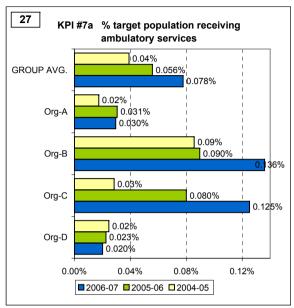


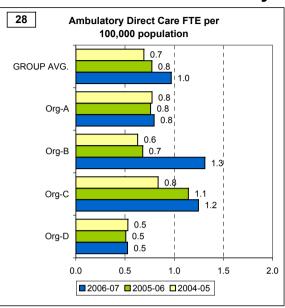


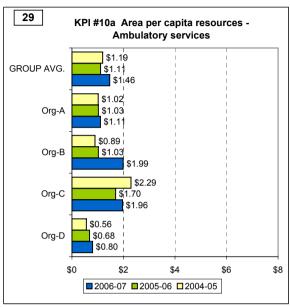


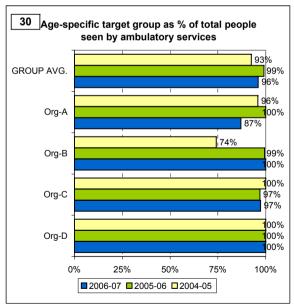


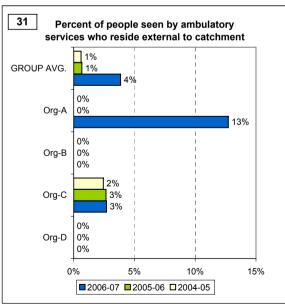
# **THEME 5: Access to ambulatory care**

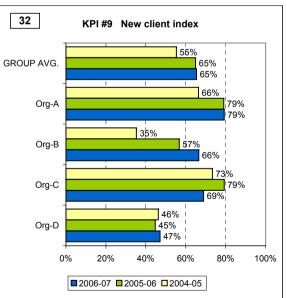




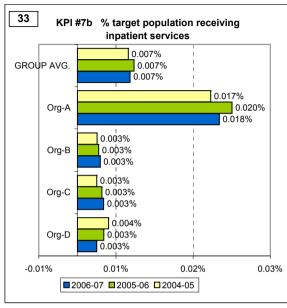


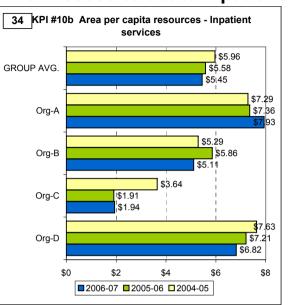


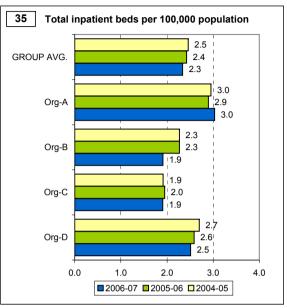


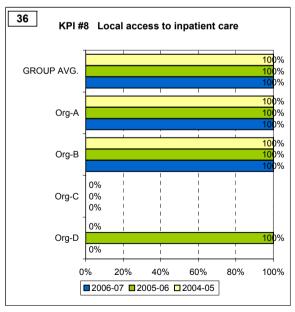


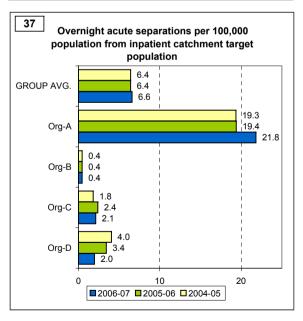
## **THEME 6: Access to acute inpatient care**

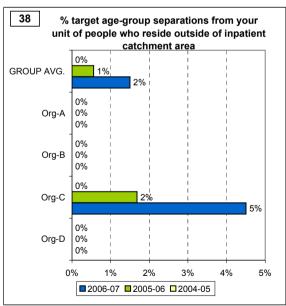




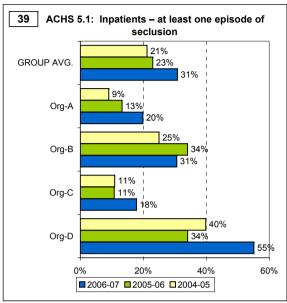


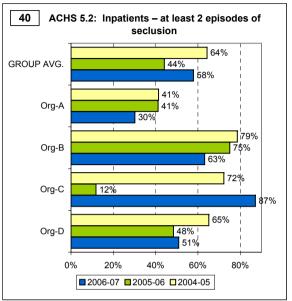


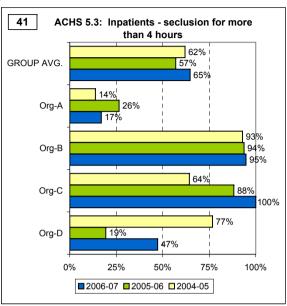


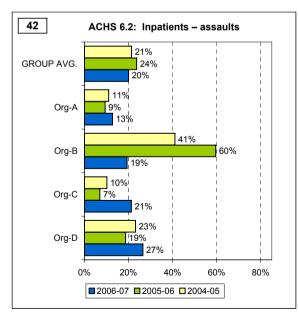


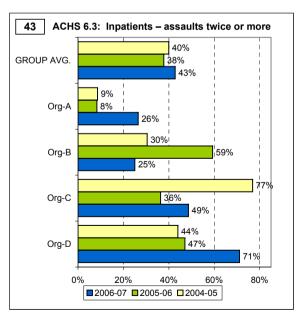
# **THEME 7: Safety (ACHS Indicators)**



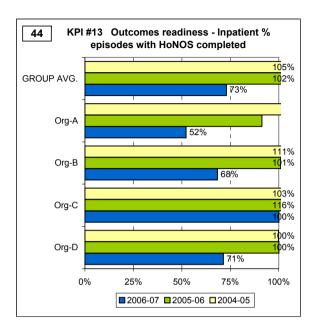


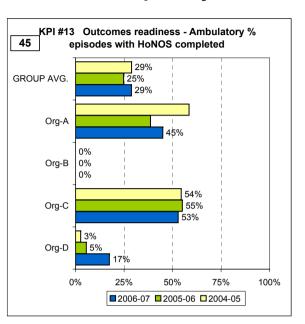




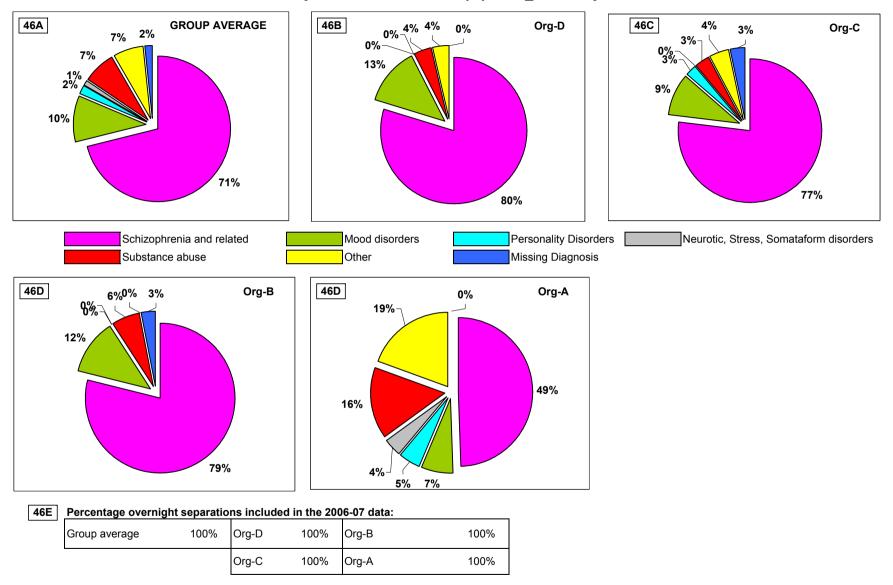


# **THEME 8: Capability**

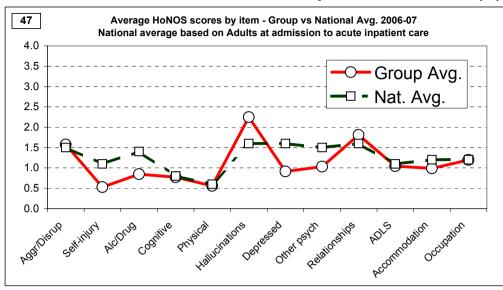


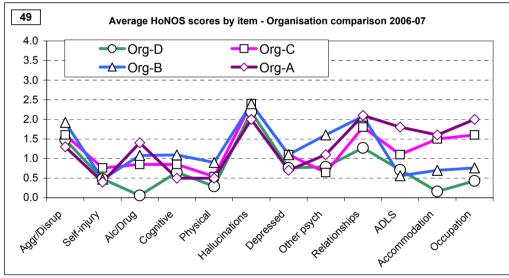


# THEME 9: Acute Inpatient casemix- (a) Diagnosis profile 2006-07



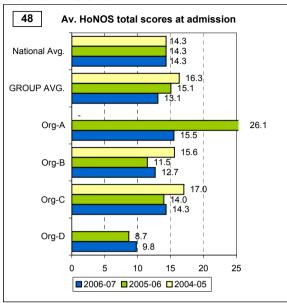
## THEME 9: Acute Inpatient casemix- (b) HoNOS at admission

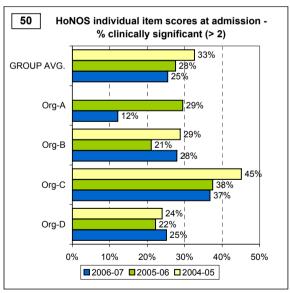




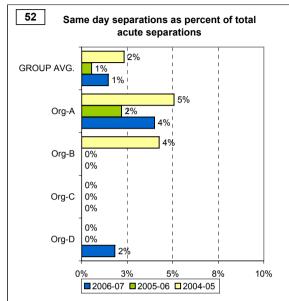


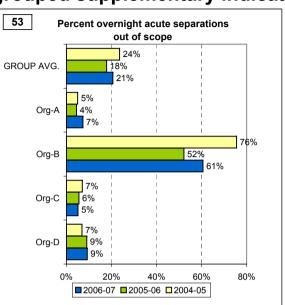
Group average	80%	Org-D	117%	Org-B	79%
•		Org-C	67%	Org-A	59%





# **Ungrouped supplementary indicators**





All refe	erence numbers link to the numbers in	boxes within the indicator charts		
Ref		Numerator	Denominator	Notes
	THEME 1: Comparative resou	rces available to the organisa	tion	
1	Total in-scope expenditure (\$M)			Simply adds all in scope expenditure reported and converts to millions
2	Inpatient services financials - \$ per capita	Total expenditure/funding reported for in scope inpatient services (acute and non acute)	Total catchment population for in scope acute inpatient services	Indicator shows differential between funding and expenditure
3	Ambulatory services financials - \$ per capita	Total expenditure/funding reported for in scope ambulatory services	Total catchment population for in scope ambulatory services	Indicator shows the difference between funding and expenditure
SI	Ambulatory services Direct Care FTE per 100,000 population	Number of ambulatory services direct care FTE	Total catchment population for in scope ambulatory services	
5		Number of in scope acute inpatient beds	Total catchment population for in scope acute inpatient services	
6		Number of in scope non acute inpatient beds	Total catchment population for in scope non acute inpatient services	
	THEME 2: Efficiency in use of	resources		
7	Indirect expenditure as % in scope total	Total indirect expenditure reported for all in scope services	Total expenditure reported for all in scope services	Indicator is intended to assess the extent to which organisations are comparable in what is included in the overall reported expenditure
8	Salaries as % in scope total expenditure	Total salaries and wages expenditure reported for all in scope services	Total expenditure reported for all in scope services	Indicator is intended to assess the extent to which organisations are comparable in what is included in the overall reported expenditure
9	Acute inpatient length of stay (KPI #3 )			Constructed as per KPI #3 - see Technical Specifications

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9a	Acute inpatient length of stay - in scope vs all seps, 2006-07 only			For in scope separations: Constructed as per KPI #3 - see Technical Specifications; For all separations: Same approach except all separations included in numeratot and denominator.
10	days)	Number of in scope overnight separations with length of stay >180 days, reported at KPI #3	Number of in scope overnight separations, reported at KPI #1	
11	Cost per acute inpatient episode (KPI #4)			Constructed as per KPI #4 - see Technical Specifications
12	Cost per day - acute inpatient units	Total expenditure reported for in scope acute units	Total acrrued mental health care days reported for in scope acute units, reported at KPI #4	
13		Total acrrued mental health care days reported for in scope acute units, reported at KPI #4	Number of beds reported for in scope acute inpatient units x 365	
14	Full year cost per inpatient bed	Total expenditure reported for in scope acute and non acute units	Number of in scope acute and non acute inpatient beds	
15	Full year cost per direct care ambulatory FTE	Total expenditure reported for in scope ambulatory services	Number of ambulatory services direct care FTE	Not equivalent to average salaries - because costs are total and include non salary and indirect
16	KPI #5 Average treatment days per 3 month period of community care			Constructed as per KPI #5 - see Technical Specifications
17	KPI #6 Average cost per 3 month period of community care			Constructed as per KPI #6 - see Technical Specifications
18		Total expenditure/funding reported for in scope ambulatory services	Total number of treatment days, reported at KPI #5	
	THEME 3: Productivity and ac	ctivity of ambulatory services		
		Numerator	Denominator	Notes
19		Total service contacts, reported at KPI #5	Total direct care ambulatory FTE x 44	Assumes 44 working weeks per direct care FTE

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Ref		Numerator	Denominator	Notes
20	Av. weekly treatment days per direct care FTE (approx = N patients per week per FTE)	Total treatment days, reported at KPI #5	Total direct care ambulatory FTE x 44	Assumes 44 working weeks per direct care FTE. NOTE: This indicator approximates av. number of consumers seen per week per direct care FTE
21	Av. number of seen people per years per ambulatory services direct care FTE	Number of people receiving one or more contacts from in scope ambulatory service teams, reported at KPI #7	Total direct care ambulatory FTE	
22	'Assessment only' episodes (1 treatment day) as percent of total 3 month episodes	Number of consumers receiving one treatment day only, reported at KPI #5	Total 3-month periods of care, reported at KPI #5	
	THEME 4: Continuity of care			
23	KPI #11 Pre admission community care			Constructed as per KPI #11 - see Technical Specifications
	KPI #12 Post discharge community care - 7 days			Constructed as per KPI #12 - see Technical Specifications
24B	KPI #12 Post discharge community care			Constructed as per KPI #12 - see Technical Specifications, except follow up period extended to 28 days post discharge
24C	KPI #12 Post discharge community care 7 day follow up - by discharge destination (2006-07 data only)			Constructed as per KPI #11 - see Technical Specifications. Separate counts shown for discharges back to prison and other destinations
25A	KPI #1 28-day readmission rate			Constructed as per KPI #1 - see Technical Specifications
25B	91-day readmission rate			Constructed as per KPI #1 - see Technical Specifications except readmission period extended to 91 days post discharge.
25C	182-day readmission rate			Constructed as per KPI #1 - see Technical Specifications except readmission period extended to 182 days post discharge.
26	KPI #5 Average treatment days per 3 month period of community care			Constructed as per KPI #5 - see Technical Specifications

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Ref		Numerator	Denominator	Notes
	THEME 5: Access to ambulate	ory care		
27	KPI #7a % target population receiving ambulatory services			Constructed as per KPI #7 - see Technical Specifications
28	Ambulatory services Direct Care FTE per 100,000 population	Number of ambulatory services direct care FTE	Total catchment population for in scope ambulatory services	Same as reference 4 above
29	KPI #10a Area per capita resources - Ambulatory services			Constructed as per KPI #10 - see Technical Specifications
30	Age-specific target group as % of total people seen by ambulatory services	Number of people receiving one or more contacts from in-scope ambulatory services who reside in catchment area and are within age target group, reported at KPI #7	Total number of people receiving one or more contacts from in scope ambulatory service teams, reported at KPI #7	
31	Percent of people seen by ambulatory services who reside external to catchment	Number of people receiving one or more contacts from in-scope ambulatory services who reside external to catchment area, reported at KPI #7	Total number of people receiving one or more contacts from in scope ambulatory service teams, reported at KPI #7	
32	KPI #9 New client index			Constructed as per KPI #9 - see Technical Specifications
	THEME 6: Access to acute in	patient care		
33	KPI #7b % target population receiving inpatient services			Constructed as per KPI #7 - see Technical Specifications
34	KPI #10b Area per capita resources - Inpatient services			Constructed as per KPI #10 - see Technical Specifications
35	Acute beds per 100,000 population	Number of in scope acute inpatient beds	Total catchment population for in scope acute inpatient services	Same as reference 5 above
36	KPI #8 Local access to inpatient care (% total area overnight separations managed by your organisation)			Constructed as per KPI #8 - see Technical Specifications

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37	Overnight acute separations per 100,000 population from inpatient catchment target population	Total overnight separations by persons in age-specific target population from the organisation catchment, reported at KPI #8	Acute inpatient services age-specific Area catchment population at December 2004, reported at KPI #7	Numerator includes separations from all inpatient services including those not managed by the organisation
38	% target age-group separations from your unit of people who reside outside of inpatient catchment area	Number of target age-group separations from your unit of people who reside outside of inpatient catchment area, reported at KPI #8	Number of separations by target age- group from your unit, reported at KPI #8	
	THEME 7: Safety (ACHS indic	ators)		
39	ACHS 5.1 Inpatients – at least one episode of seclusion	Numerator: Number of inpatients having at least one episode of seclusion, in an admission	Denominator: Total number of inpatients.	As defined by ACHS, Mental health inpatient indicators, version 5
40	ACHS 5.2 Inpatients - at least 2 episodes of seclusion	Numerator: Number of inpatients having at least two episodes of seclusion, in an admission or in a one month period of an extended admission	Denominator: Total number of inpatients having seclusion.	As defined by ACHS, Mental health inpatient indicators, version 5
41	ACHS 5.3 Inpatients - seclusion for more than 4 hours	Numerator: Number of inpatients having seclusion for more than four hours in one episode, in an admission	Denominator: Total number of inpatients having seclusion.	As defined by ACHS, Mental health inpatient indicators, version 5
42	ACHS 6.2 Inpatients - assault	Numerator: Number of inpatients who assault in an admission.	Denominator: Total number of inpatients.	As defined by ACHS, Mental health inpatient indicators, version 5
43	ACHS 6.3 Inpatients - assault twice or more	Numerator: Number of inpatients who assault twice or more in an admission	Denominator:Total number of inpatients who have assaulted.	As defined by ACHS, Mental health inpatient indicators, version 5
	THEME 8: Capability			
44	KPI #13 Outcomes readiness - % Inpatient episodes with HoNOS completed			Constructed as per KPI #13 - see Technic Specifications

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	KPI #13 Outcomes readiness - % Inpatient episodes with HoNOS completed			Constructed as per KPI #13 - see Technical Specifications
	THEME 9: Acute Inpatient cas	semix - (a) Diagnosis		
46A to 46D		from in-scope acute inpatient units.	by organisations covering separations ups, number of separations is expressed .	New data submitted to allow comparison of acute inpatient profiles
46E	Percentage overnight separations included in the data	Total separations reported with a diagnosis	Total overnight separations from in scope acute units as reported at KPI #1	This indicator shows the coverage of diagnostic data submitted by each organisation and provides information about the extent to which the diagnostic profile is representative of total acute inpatient separations for the organisation
	THEME 9: Acute Inpatient cas	semix - (b) HoNOS at admissi	on	
47	Average HONOS scores by item - Group vs National Avg.	New data as submitted by organisat Group average is average of benchi taken from AMHOCN Decision Supp scores for adult admissions to inpati	New data submitted to allow comparison of acute inpatient profiles	
48	Av. HoNOS total scores at admission	New data as submitted by organisat National data taken from AMHOCN above)	New data submitted to allow comparison of acute inpatient profiles	
49	Average HoNOS scores by item - Organisation comparison	New data as submitted by organisat		
50	HoNOS scores at admission - % clinically significant	Number of HoNOS items with a score > 2, summed across all 12 scales for all admissions	(Total number of separations included in sample) x 12	New data submitted to allow comparison of acute inpatient profiles. This indicator provides an alternative to Total HoNOS score as an overall measure of casemix severity

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51	Percentage overnight separations with HoNOS Admission data	Total separations reported with HoNOS admission data	Total overnight separations from in scope acute units as reported at KPI #1	This indicator shows the coverage of HoNOS data submitted by each organisation and provides information abou the extent to which the HoNOS profile is representative of total acute inpatient separations for the organisation
	Ungrouped supplementary indicators			
52	Same day separations as percent of total acute separations			
53	Percent overnight acute separations out of scope			