National Mental Health Benchmarking Project

An Australian Government funded initiative

A joint Australian, State and Territory Government Initiative

COMPARATIVE INDICATORS

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

Forensic Mental Health Services Forum

Version 1.0 Summary for Public Release

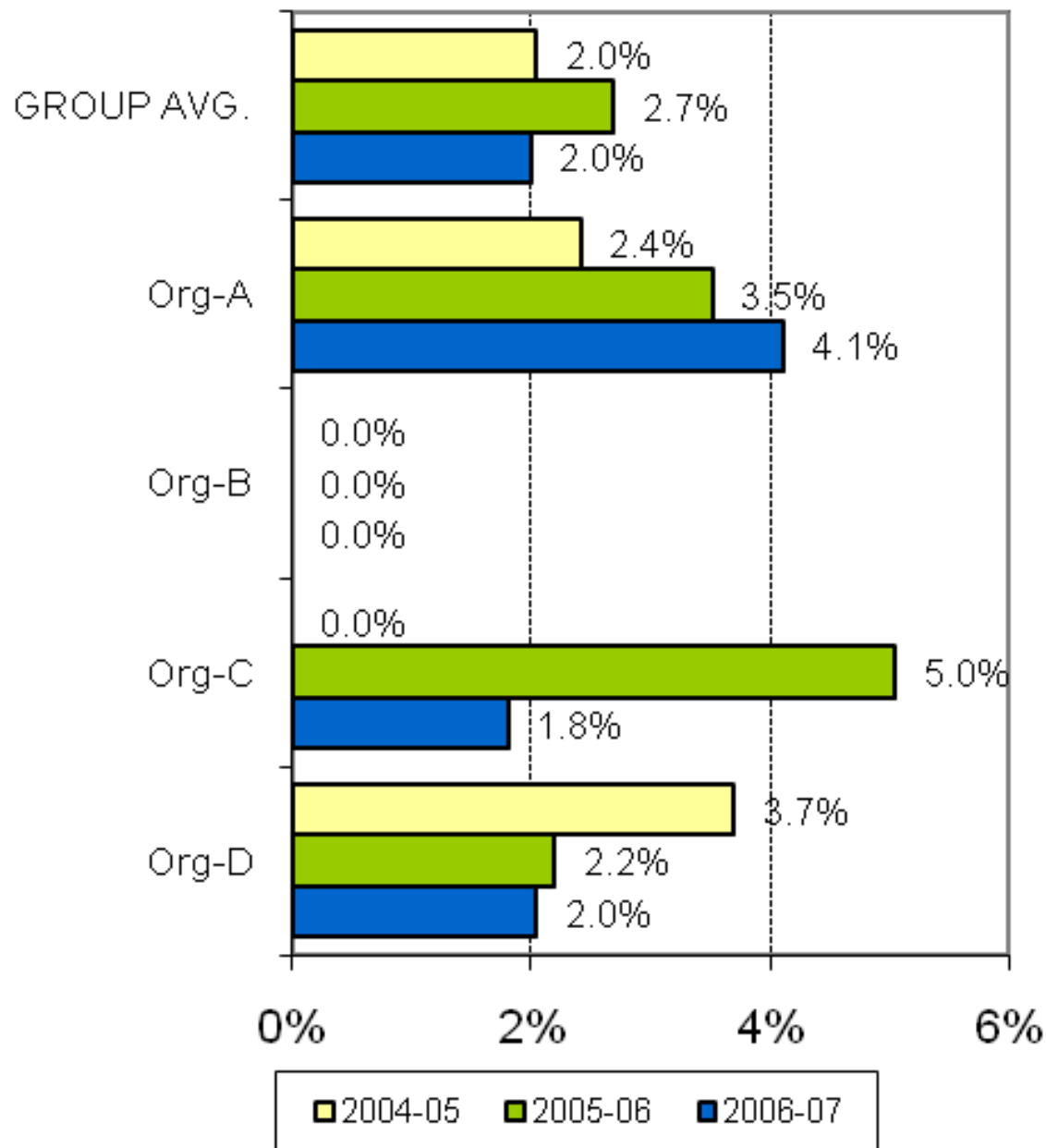**Australian Mental Health Outcomes and Classification Network**
November 2008

"Sharing Information to Improve Outcomes"

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.

KPI #1   28-day readmission rate

GROUP AVG.
- 2.0%
- 2.7%
- 2.0%

Org-A
- 2.4%
- 3.5%
- 4.1%

Org-B
- 0.0%
- 0.0%
- 0.0%

Org-C
- 0.0%
- 5.0%
- 1.8%

Org-D
- 3.7%
- 2.2%
- 2.0%

0%   2%   4%   6%

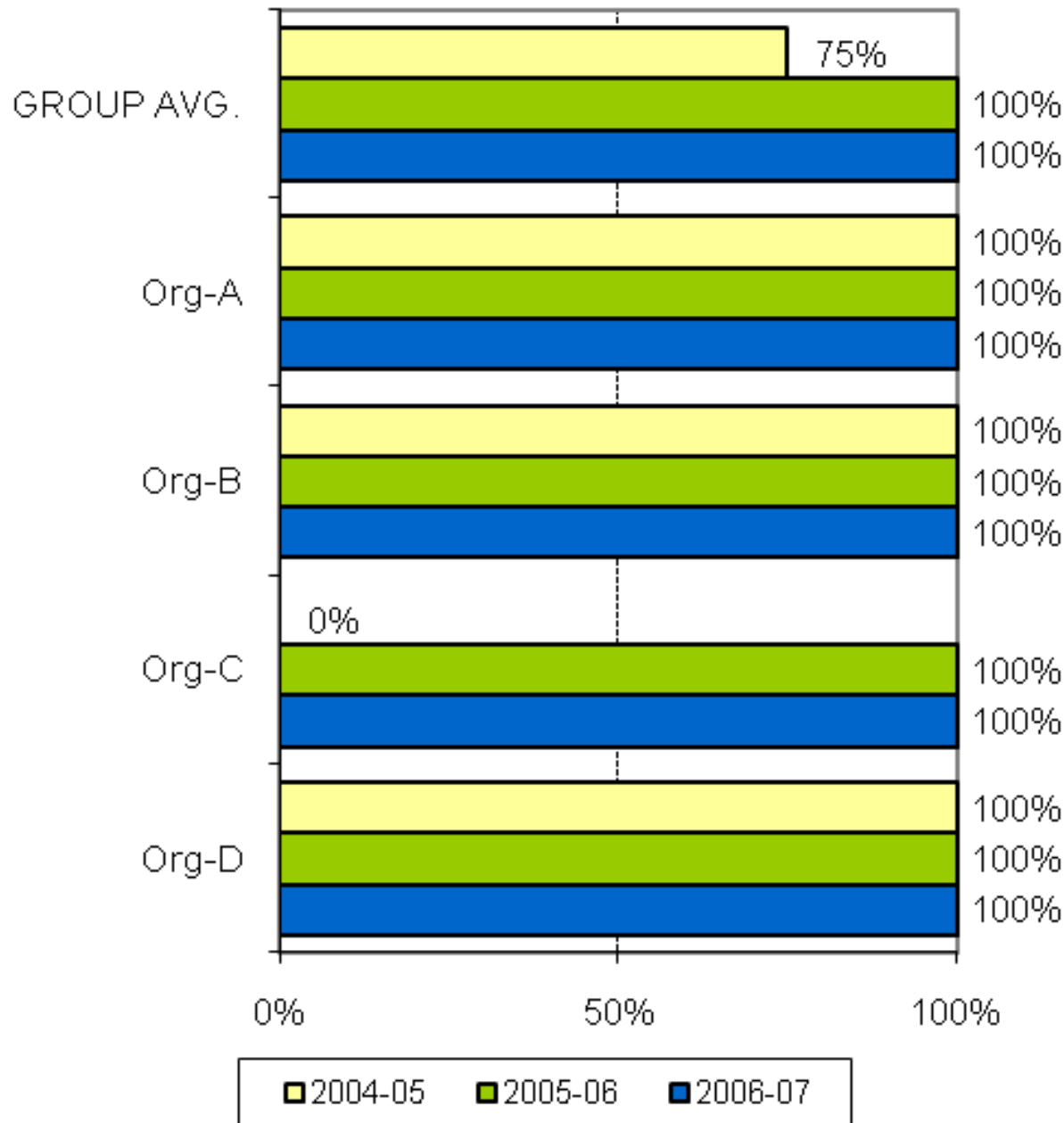☐ 2004-05   ☐ 2005-06   ☐ 2006-07

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"Sharing Information to Improve Outcomes"
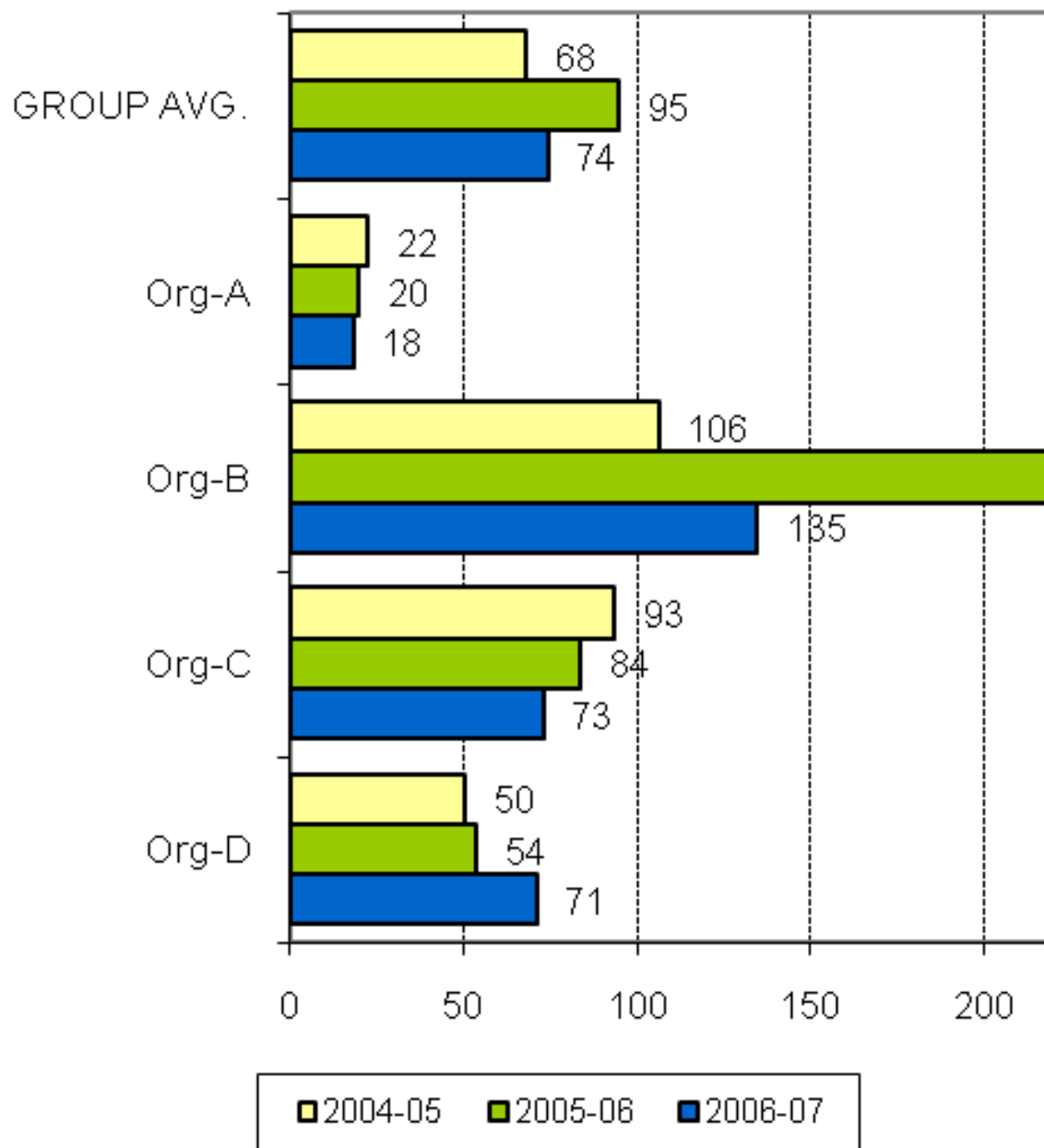
KPI#2 National Standards compliance
(Level 1 only)

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KPI#3 Average acute length of stay

GROUP AVG.: 68 (2004-05), 95 (2005-06), 74 (2006-07)
Org-A: 22 (2004-05), 20 (2005-06), 18 (2006-07)
Org-B: 106 (2004-05), 135 (2006-07)
Org-C: 93 (2004-05), 84 (2005-06), 73 (2006-07)
Org-D: 50 (2004-05), 54 (2005-06), 71 (2006-07)
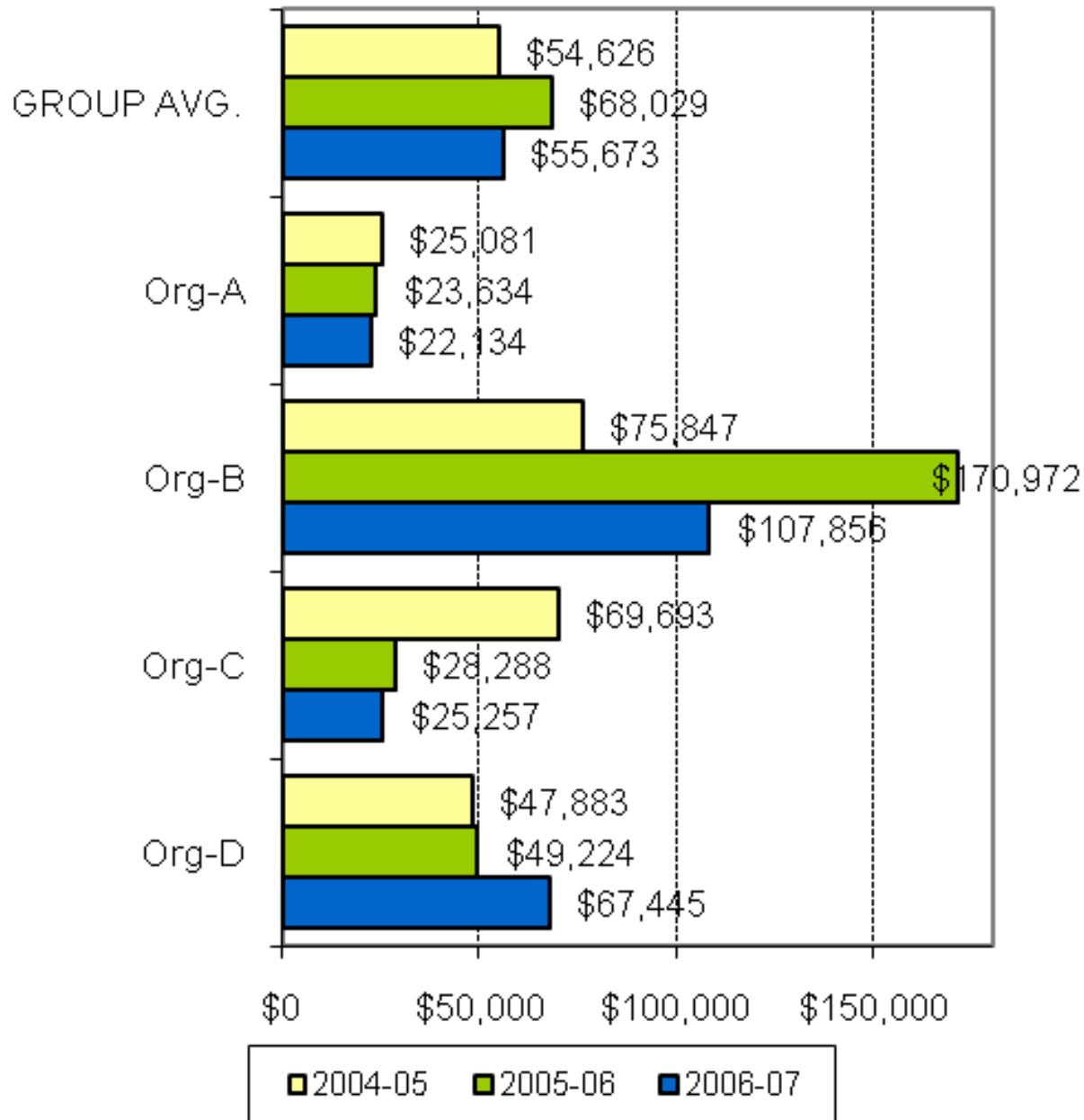
2004-05   2005-06   2006-07

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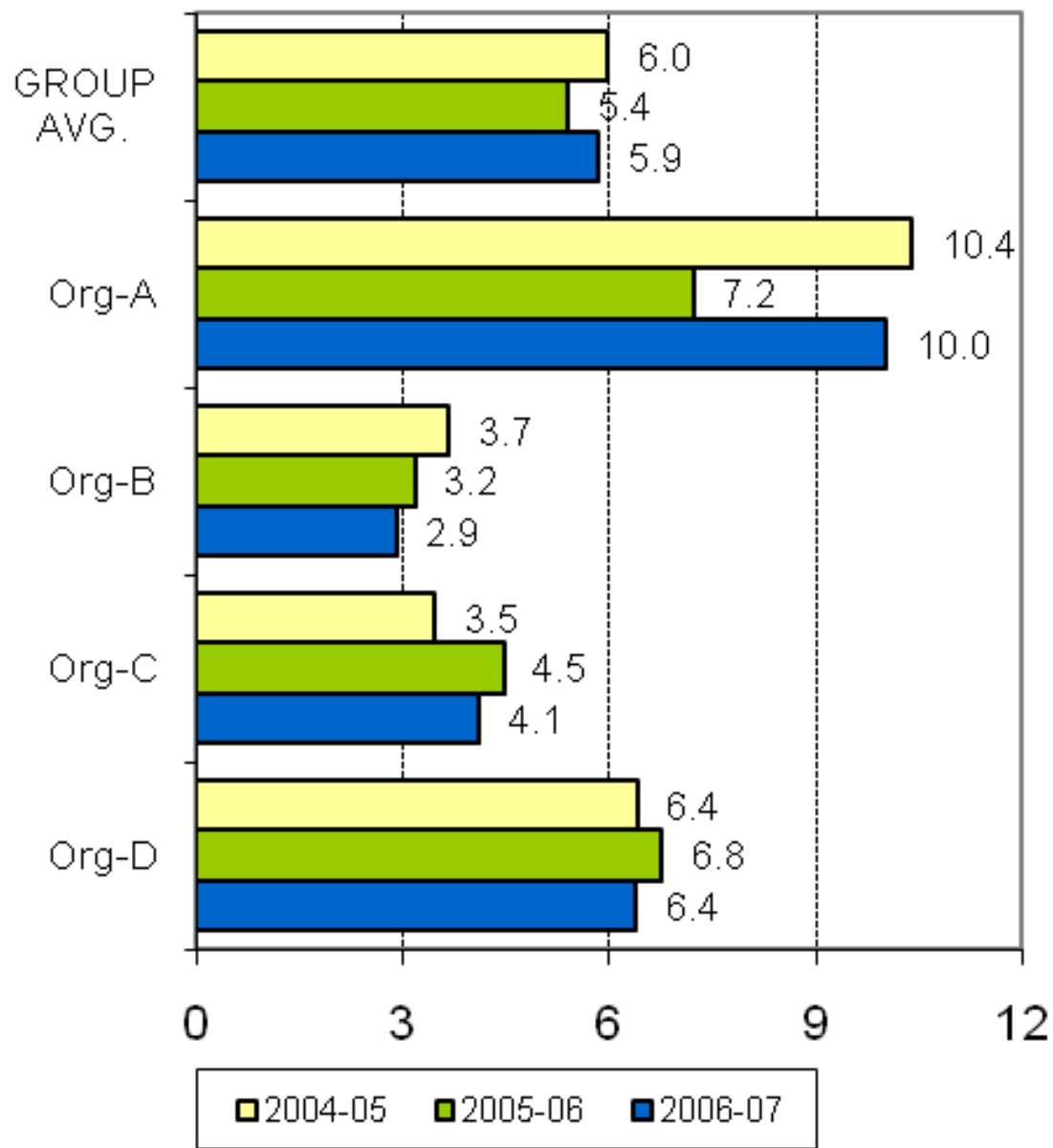
KPI#4 Cost per acute inpatient episode

	2004-05	2005-06	2006-07
GROUP AVG.	$54,626	$68,029	$55,673
Org-A	$25,081	$23,634	$22,134
Org-B	$75,847	$170,972	$107,856
Org-C	$69,693	$28,288	$25,257
Org-D	$47,883	$49,224	$67,445

KPI #5 Average treatment days per 3 month period of community care

KPI#6 Average cost per 3 month period of community care

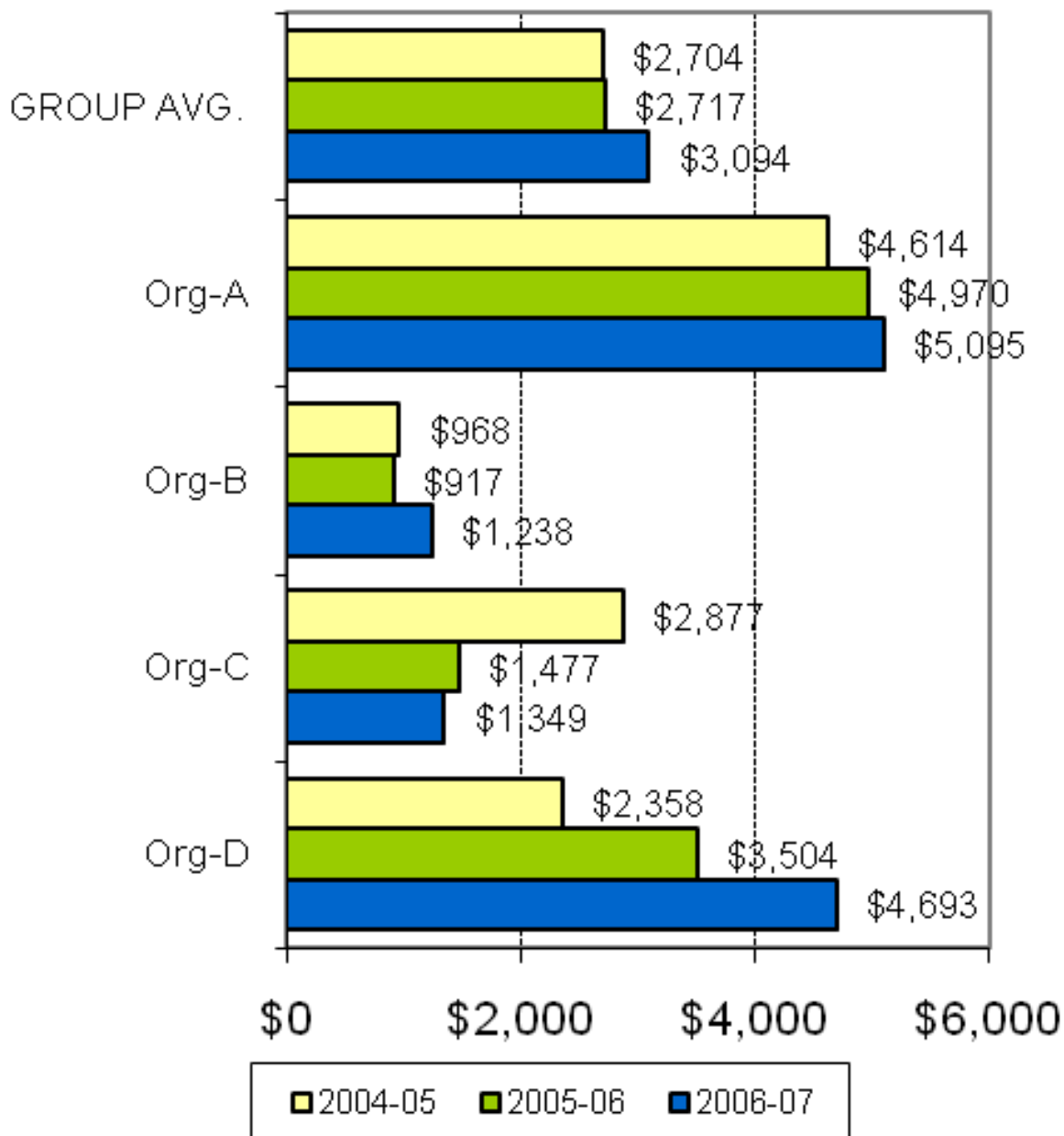|	2004-05	2005-06	2006-07
GROUP AVG.	$2,704	$2,717	$3,094
Org-A	$4,614	$4,970	$5,095
Org-B	$968	$917	$1,238
Org-C	$2,877	$1,477	$1,349
Org-D	$2,358	$3,504	$4,693

□ 2004-05   ■ 2005-06   ■ 2006-07

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KPI#7a % target population receiving ambulatory services
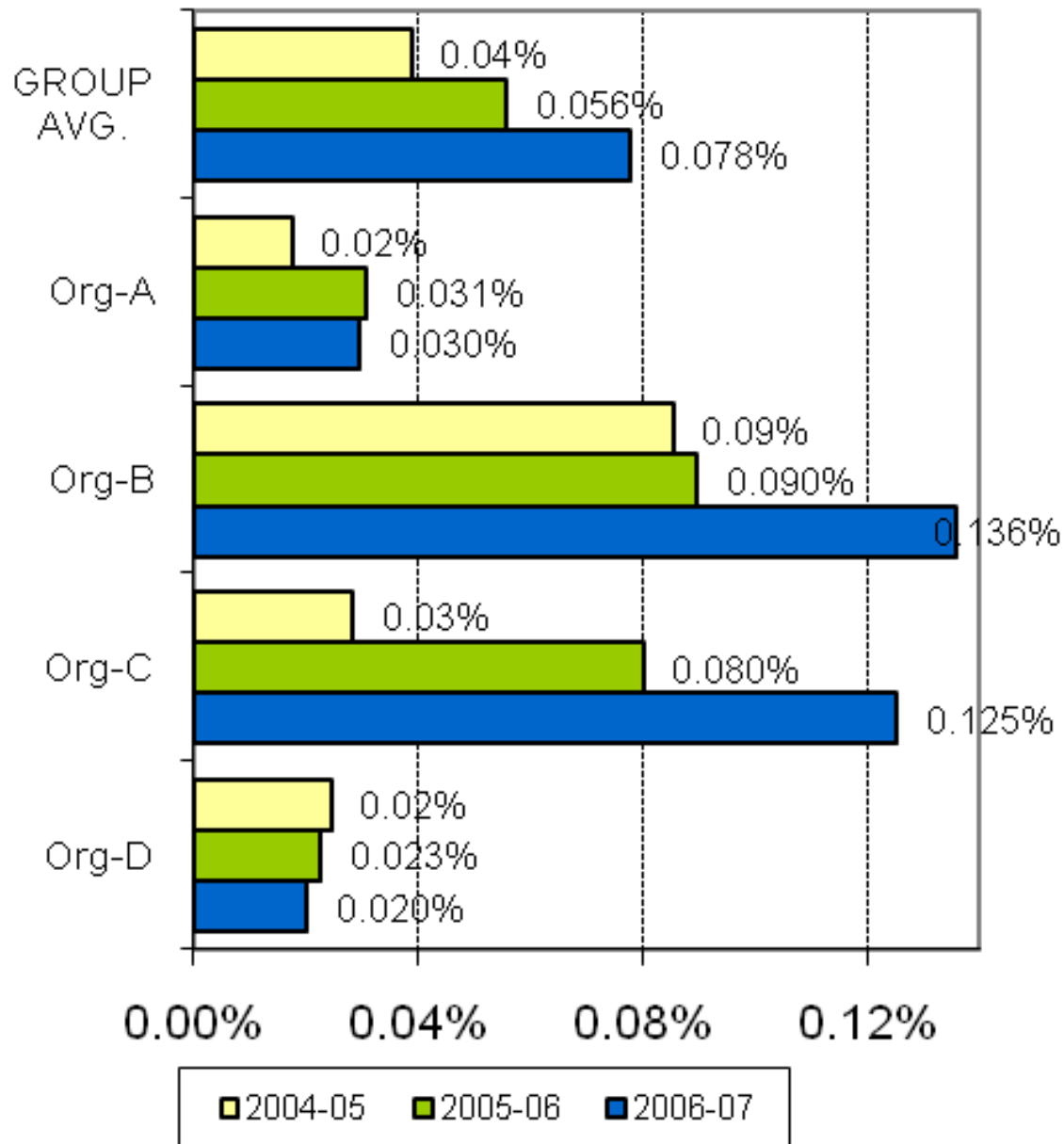
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KPI#7b % target population receiving inpatient services

GROUP AVG.
- 0.007% (2004-05)
- 0.007% (2005-06)
- 0.007% (2006-07)

Org-A
- 0.017% (2004-05)
- 0.020% (2005-06)
- 0.018% (2006-07)

Org-B
- 0.003% (2004-05)
- 0.003% (2005-06)
- 0.003% (2006-07)

Org-C
- 0.003% (2004-05)
- 0.003% (2005-06)
- 0.003% (2006-07)

Org-D
- 0.004% (2004-05)
- 0.003% (2005-06)
- 0.003% (2006-07)

-0.01%   0.01%   0.02%   0.03%

□ 2004-05 ■ 2005-06 ■ 2006-07
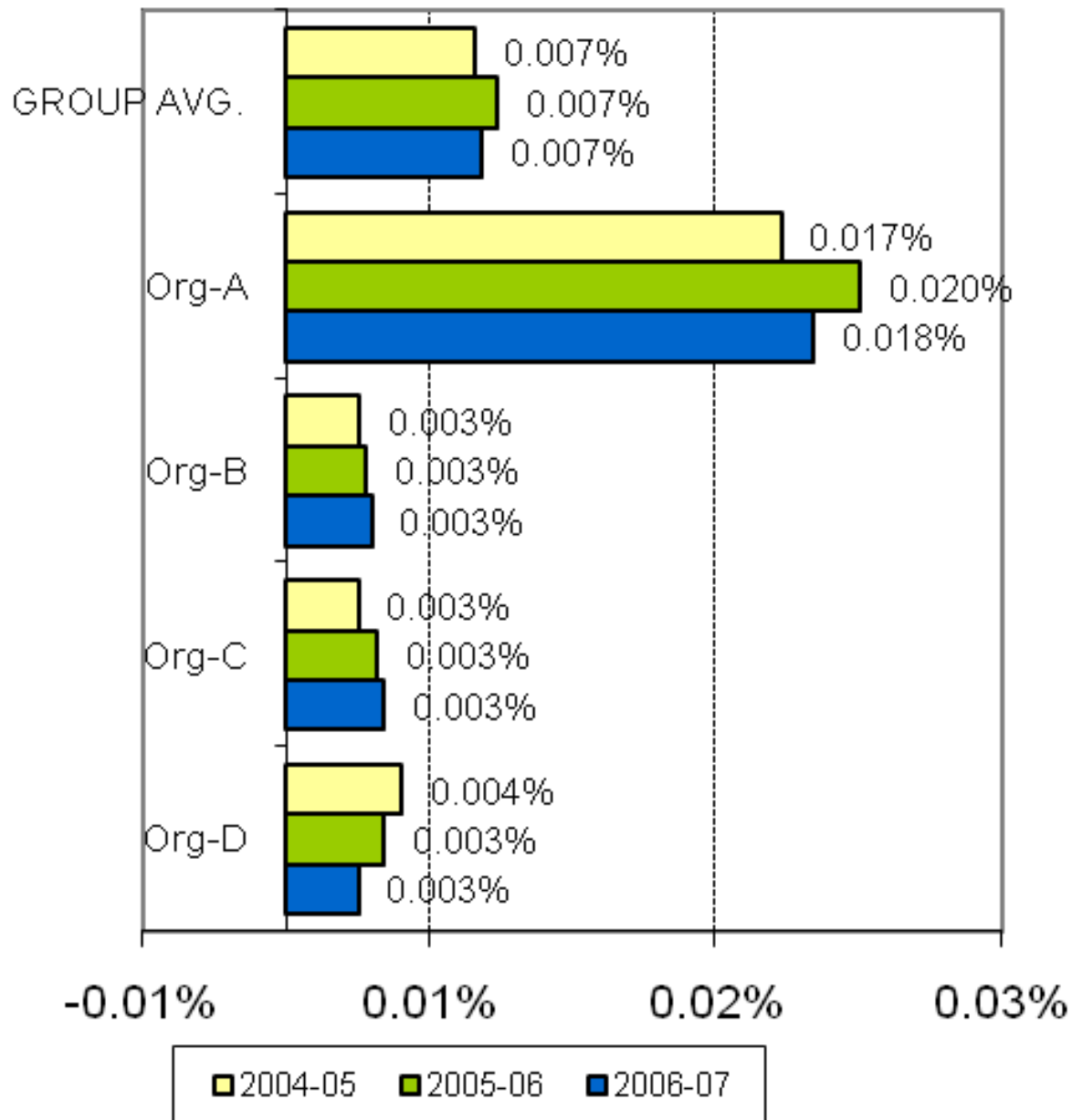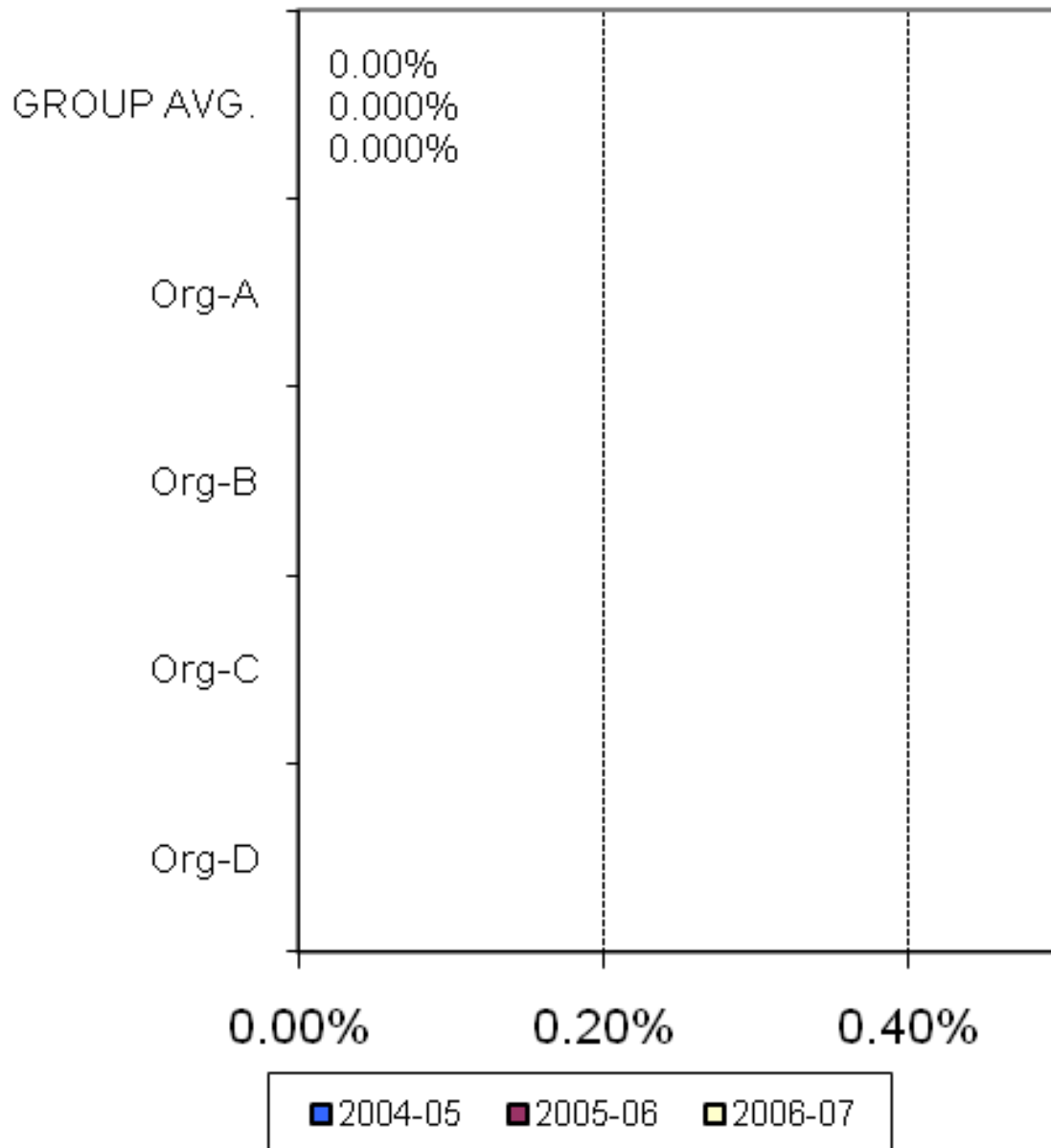
national mental health strategy

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KPI#7c % target population receiving residential services

GROUP AVG.   0.00%
              0.000%
              0.000%

Org-A

Org-B

Org-C

Org-D

0.00%   0.20%   0.40%

■ 2004-05   ■ 2005-06   □ 2006-07

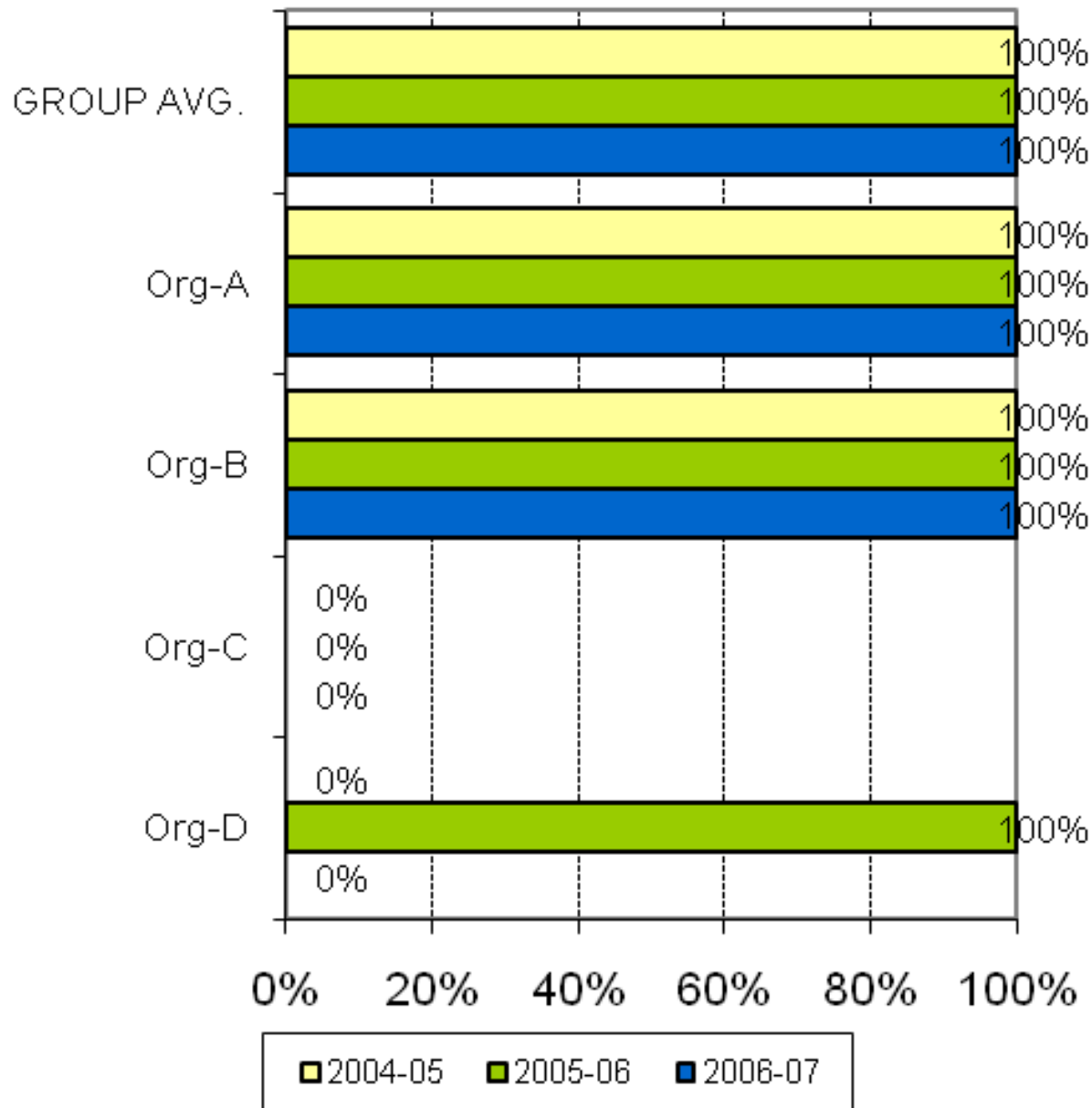national
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KPI#8 Local access to inpatient care

KPI#9 New client index
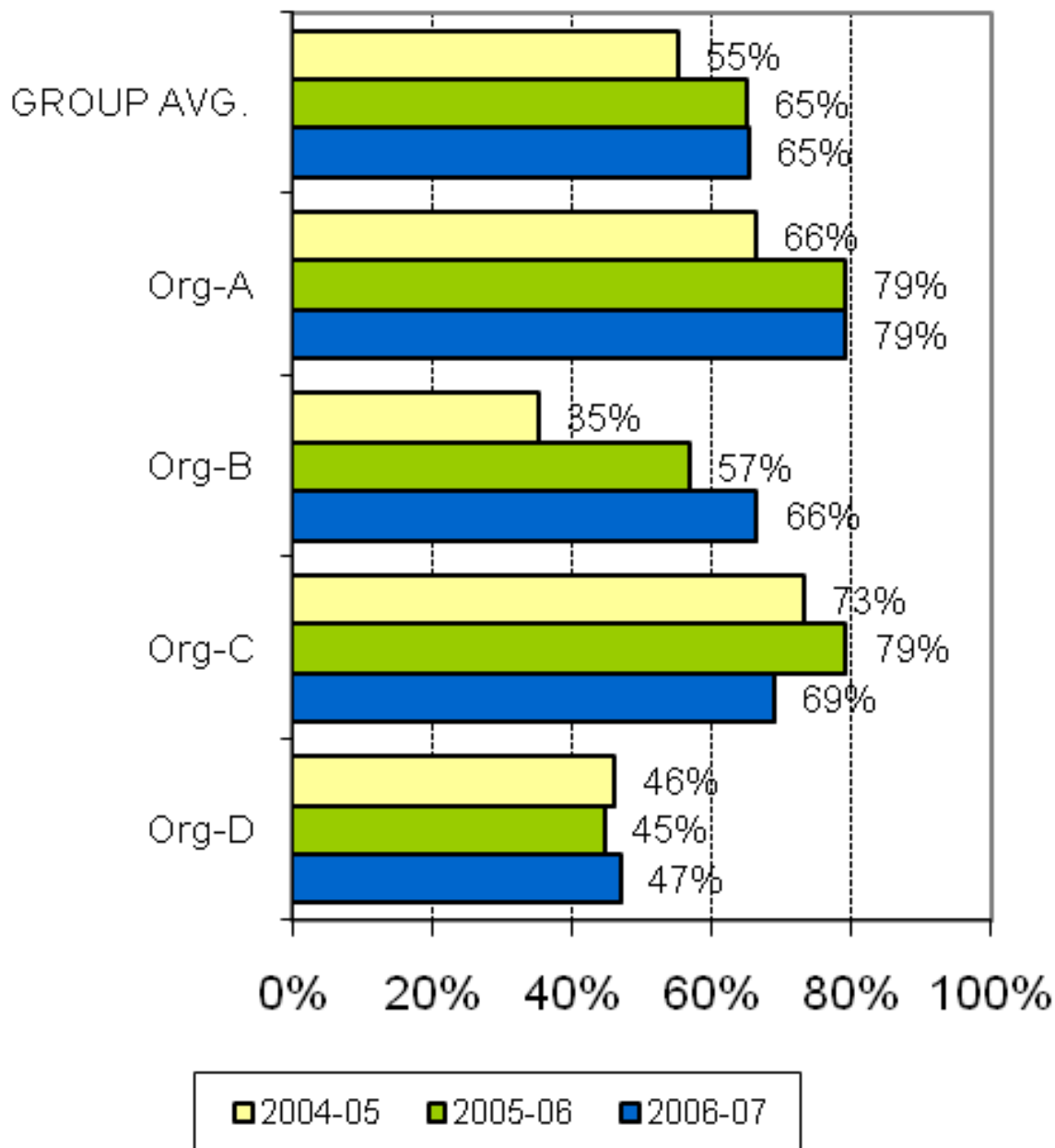
KPI#10a Area per capita resources -
Ambulatory services (Expenditure)
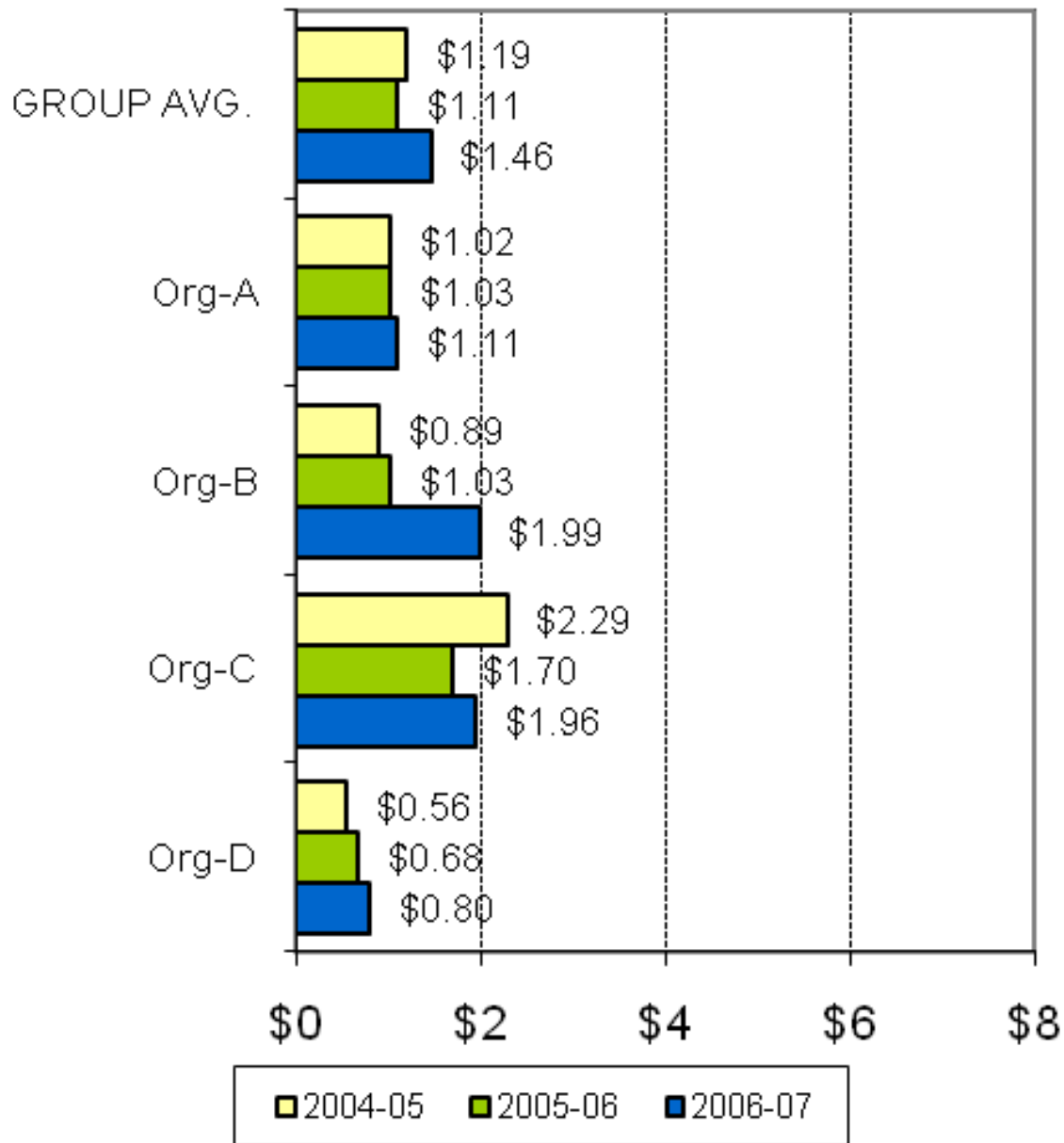
	2004-05	2005-06	2006-07
GROUP AVG.	$1.19	$1.11	$1.46
Org-A	$1.02	$1.03	$1.11
Org-B	$0.89	$1.03	$1.99
Org-C	$2.29	$1.70	$1.96
Org-D	$0.56	$0.68	$0.80

KPI#10b Area per capita resources - Inpatient services (Expenditure)

	2004-05	2005-06	2006-07
GROUP AVG.	$5.96	$5.58	$5.45
Org-A	$7.29	$7.36	$7.93
Org-B	$5.29	$5.86	$5.11
Org-C	$3.64	$1.91	$1.94
Org-D	$7.63	$7.21	$6.82

KPI#10c Area per capita resources - Residential services (Expenditure)

GROUP AVG. $0.00
              $0.00
              $0.00

Org-A

Org-B

Org-C

Org-D

$0 $2 $4 $6 $8

■2004-05   ■2005-06   □2006-07

KPI#11 Pre admission community care

GROUP AVG.
- 2004-05: 52%
- 2005-06: 76%
- 2006-07: 80%

Org-A
- 2004-05: 27%
- 2005-06: 28%
- 2006-07: 35%

Org-B
- 2004-05: 44%
- 2005-06: 100%
- 2006-07: 100%

Org-C
- 2004-05: 38%
- 2005-06: 75%
- 2006-07: 86%

Org-D
- 2004-05: 100%
- 2005-06: 100%
- 2006-07: 100%

Legend: ☐ 2004-05 ☐ 2005-06 ☐ 2006-07

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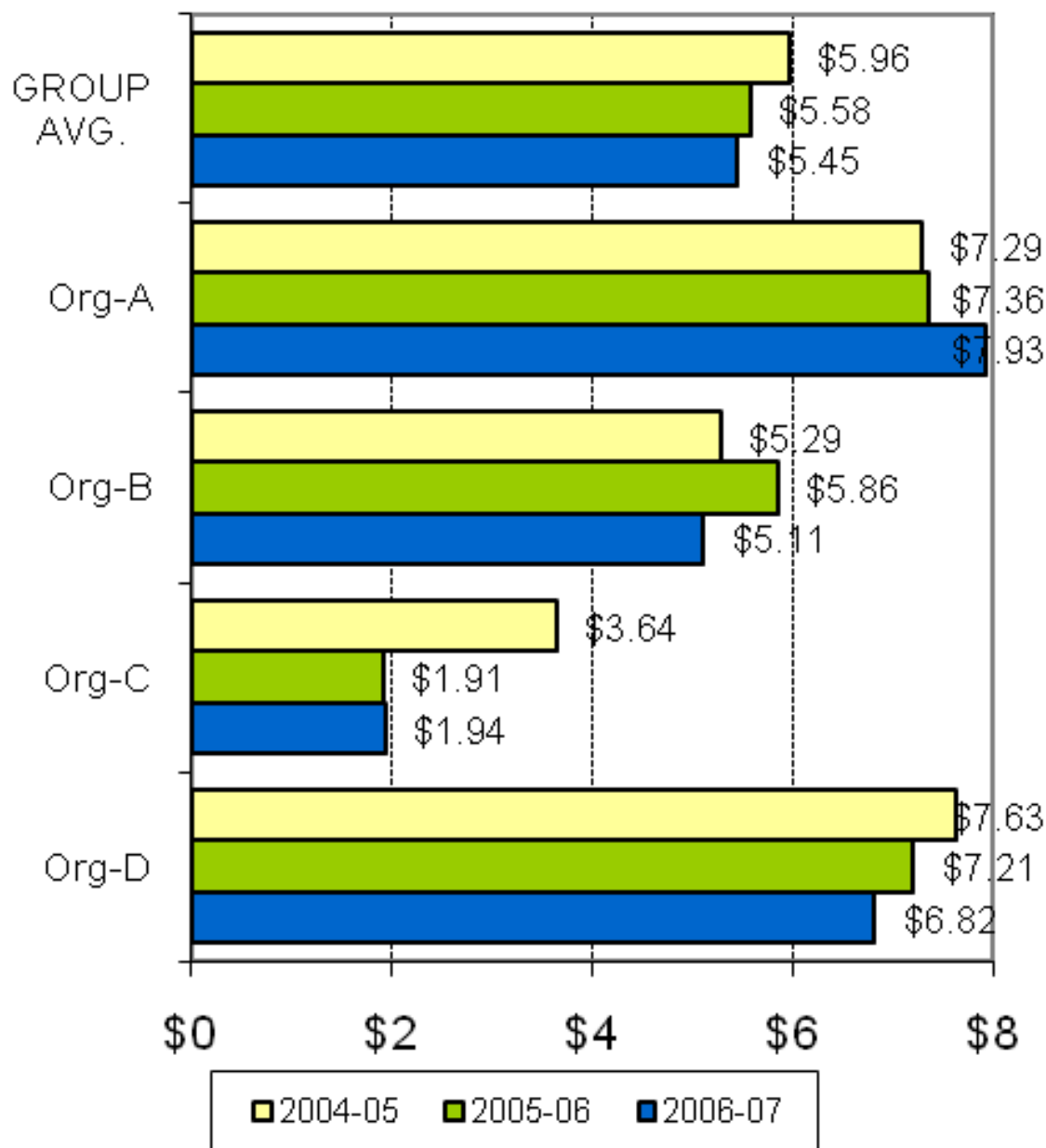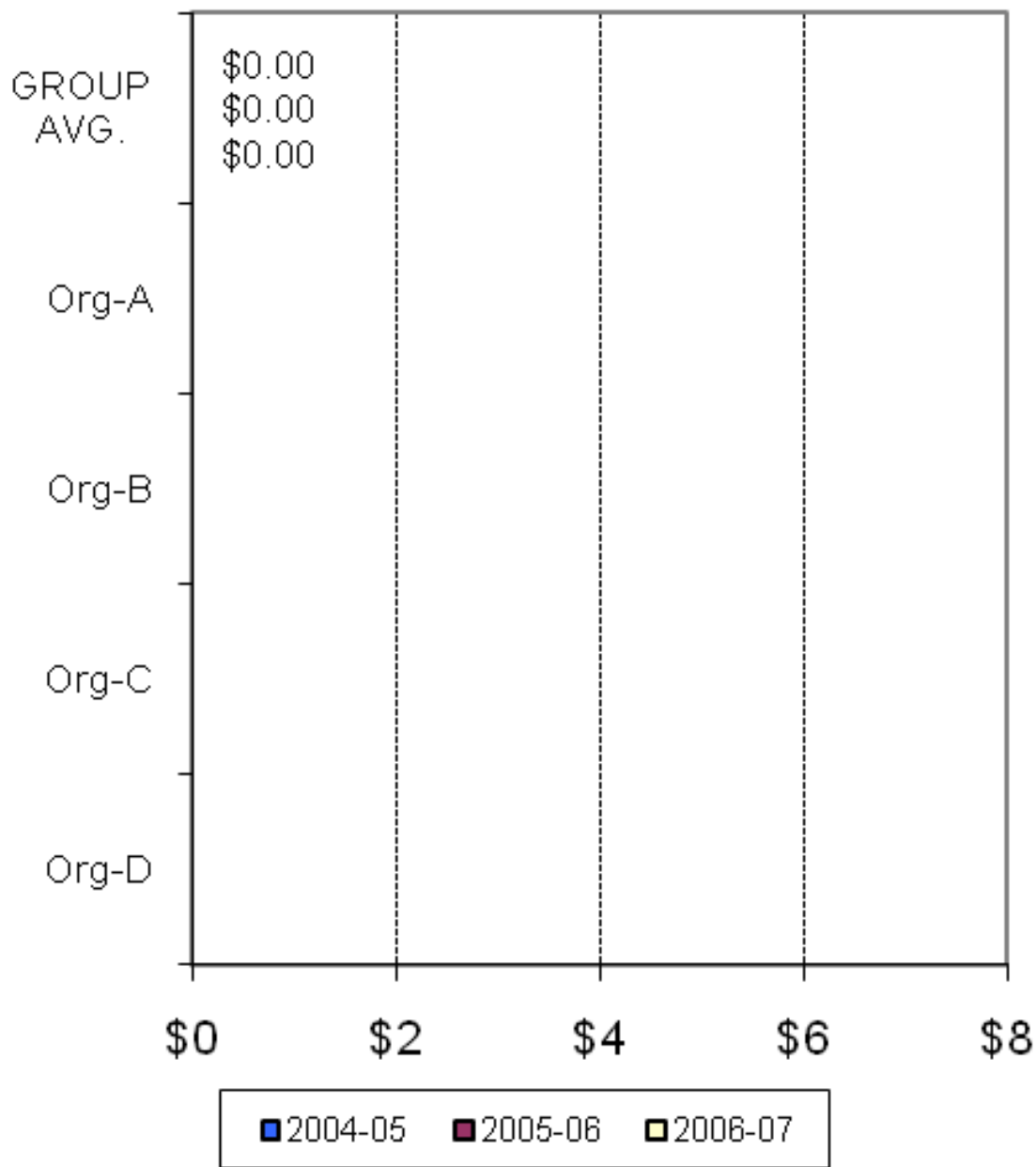State and Territory
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KPI#13 Outcomes readiness - Inpatient

KPI#13   Outcomes readiness - Ambulatory

	2004-05	2005-06	2006-07
GROUP AVG.	29%	25%	29%
Org-A			45%
Org-B	0%	0%	0%
Org-C	54%	55%	53%
Org-D	3%	5%	17%

0%   25%   50%   75%   100%

THEME 1: COMPARATIVE RESOURCES AVAILABLE TO THE ORGANISATION

Total in-scope expenditure ($M)

	2004-05	2005-06	2006-07
Org-A	$11.3	$11.6	$11.9
Org-B	$15.3	$17.0	$19.9
Org-C	$30.37	$17.73	$19.42
Org-D	$30.35	$30.51	$30.34

Inpatient services financials - $ per capita (KPI #10) 2006-07 only

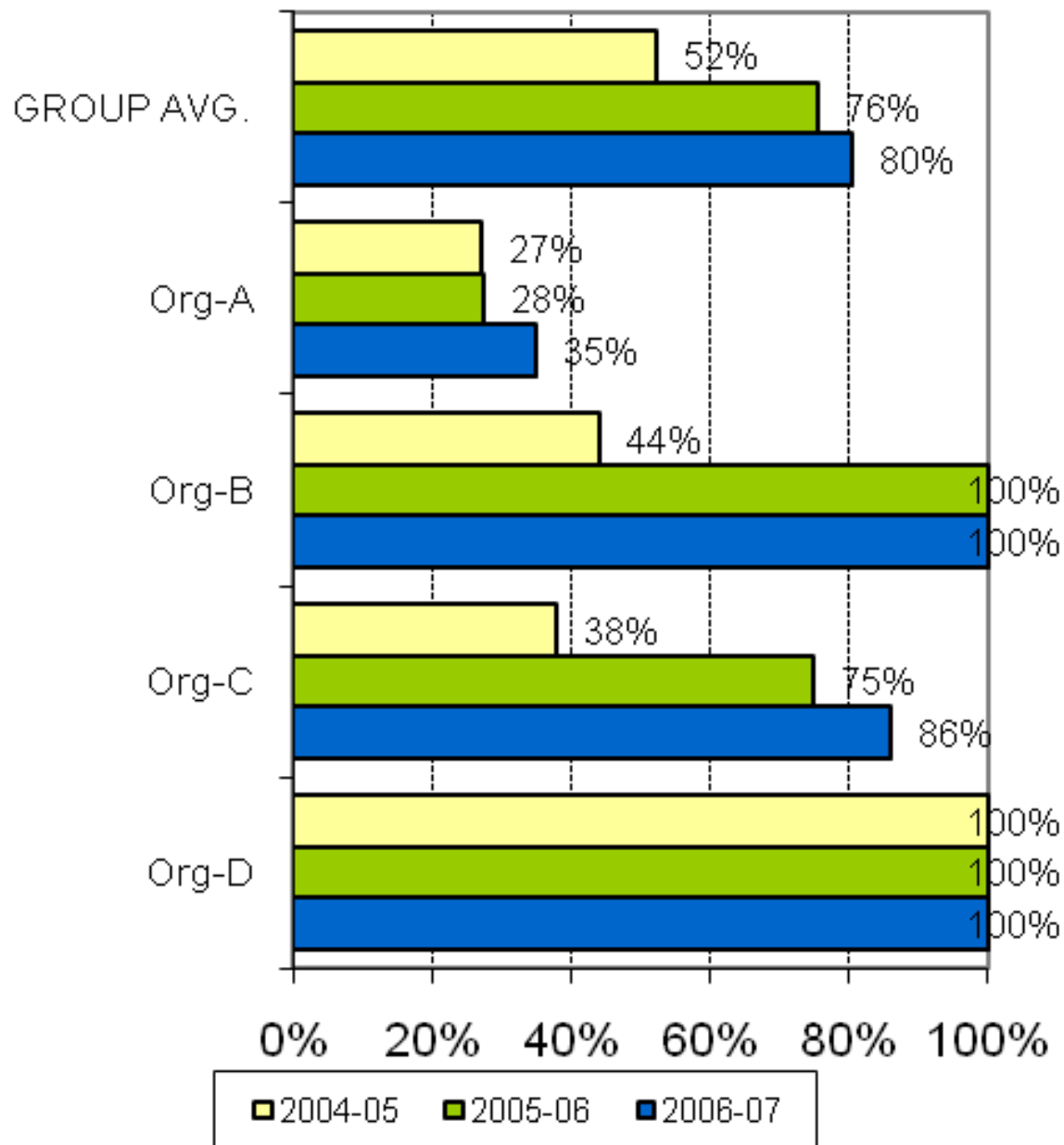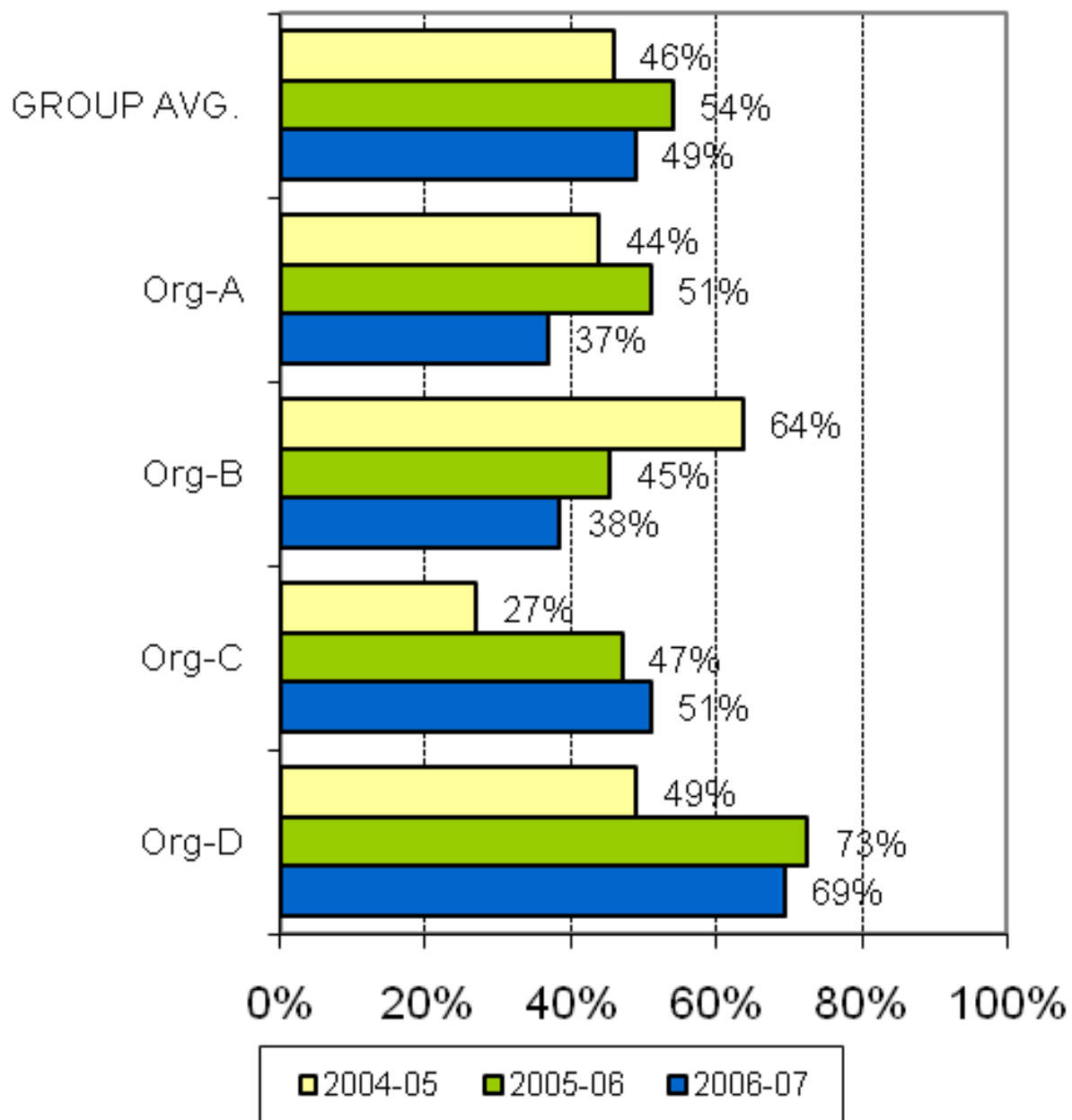|	Expenditure	Funding
GROUP AVG.	$5.4	$3.08
Org-A	$7.9	$0.00
Org-B	$5.1	$4.23
Org-C	$1.9	$1.94
Org-D	$6.8	$0.00

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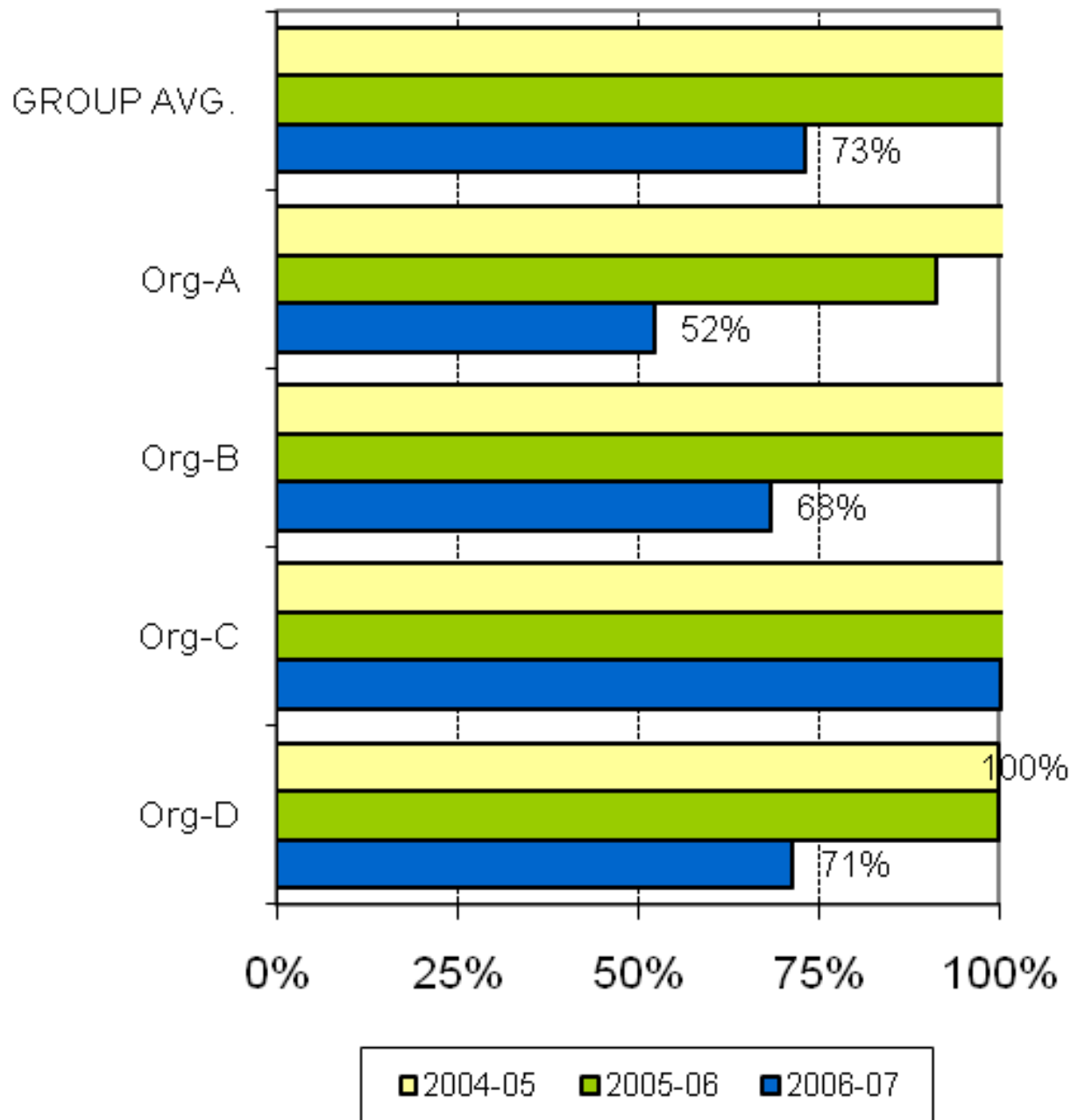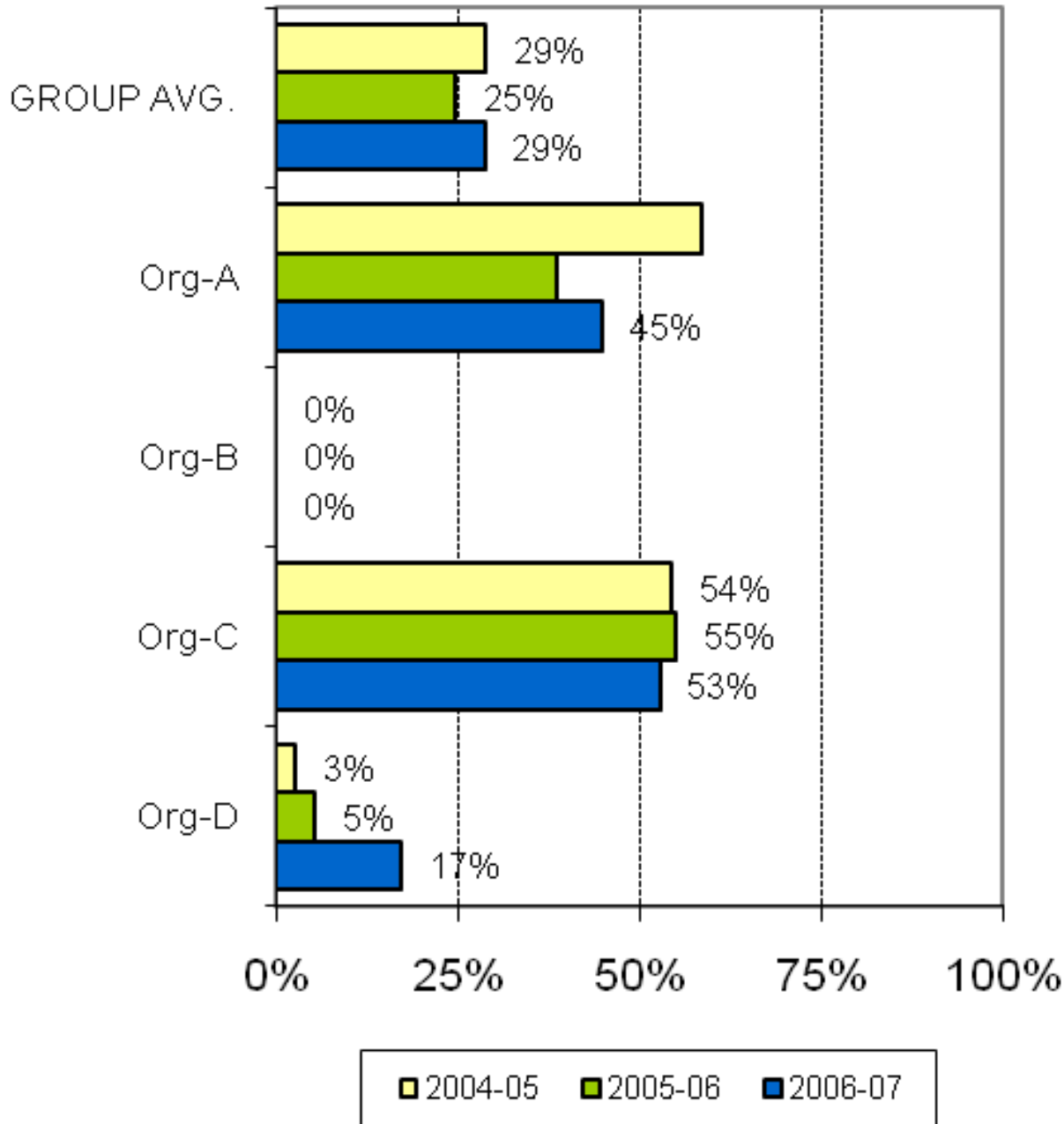
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Ambulatory care financials - $ per capita (KPI #10) 2006-07 only

	Expenditure	Funding
GROUP AVG.	$1.46	$2.05
Org-A	$1.11	$0.00
Org-B	$1.99	$2.14
Org-C	$1.96	$1.96
Org-D	$0.80	$0.00

Ambulatory Direct Care FTE per 100,000 population

	2004-05	2005-06	2006-07
GROUP AVG.	0.7	0.8	1.0
Org-A	0.8	0.8	0.8
Org-B	0.6	0.7	1.3
Org-C	0.8	1.1	1.2
Org-D	0.5	0.5	0.5

Acute inpatient beds per 100,000 (in-scope)

	2004-05	2005-06	2006-07
GROUP AVG.	1.1	1.1	1.06
Org-A	1.5	1.4	1.52
Org-B	1.1	1.1	0.96
Org-C	0.7	0.8	0.76
Org-D	1.1	1.0	1.00

Non acute inpatient beds per 100,000

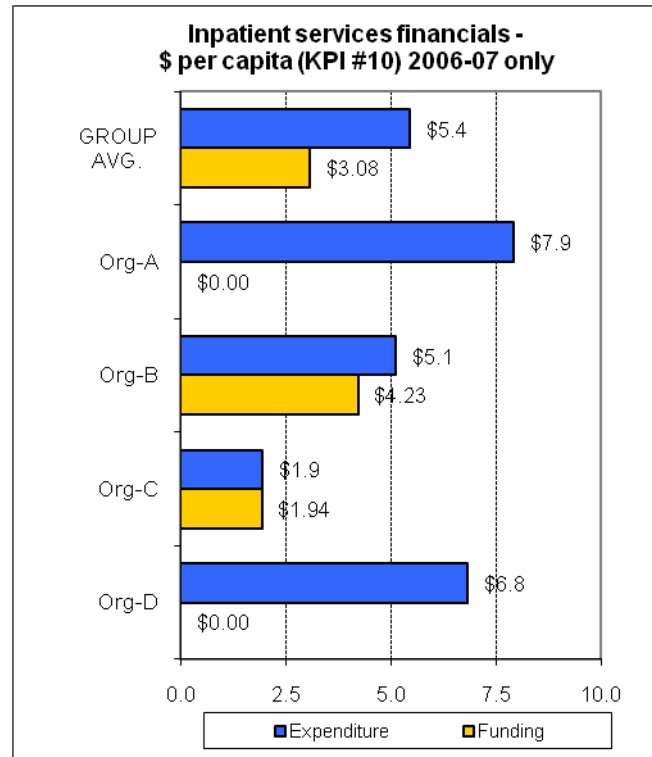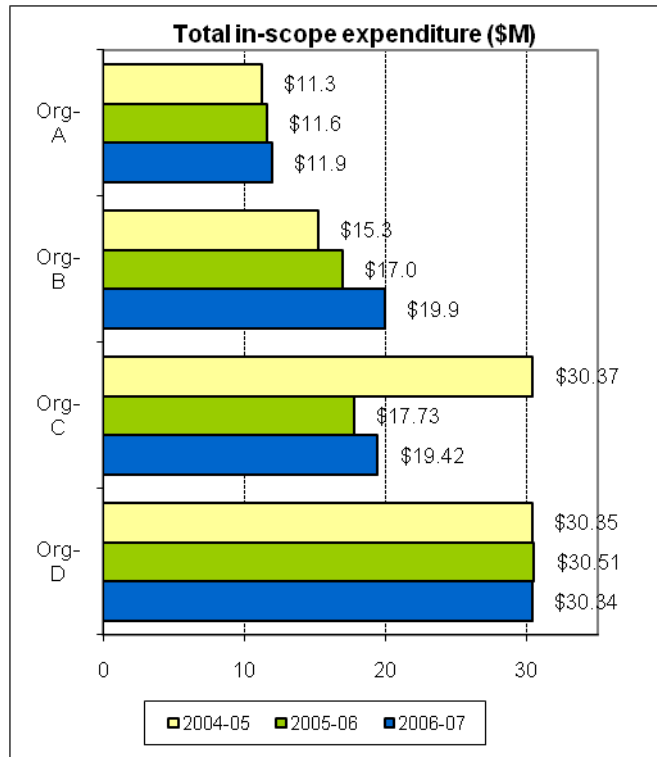|	2004-05	2005-06	2006-07
GROUP AVG.	1.4	1.3	1.28
Org-A	1.5	1.4	1.52
Org-B	1.1	1.1	0.96
Org-C	1.2	1.2	1.14
Org-D	1.6	1.6	1.51

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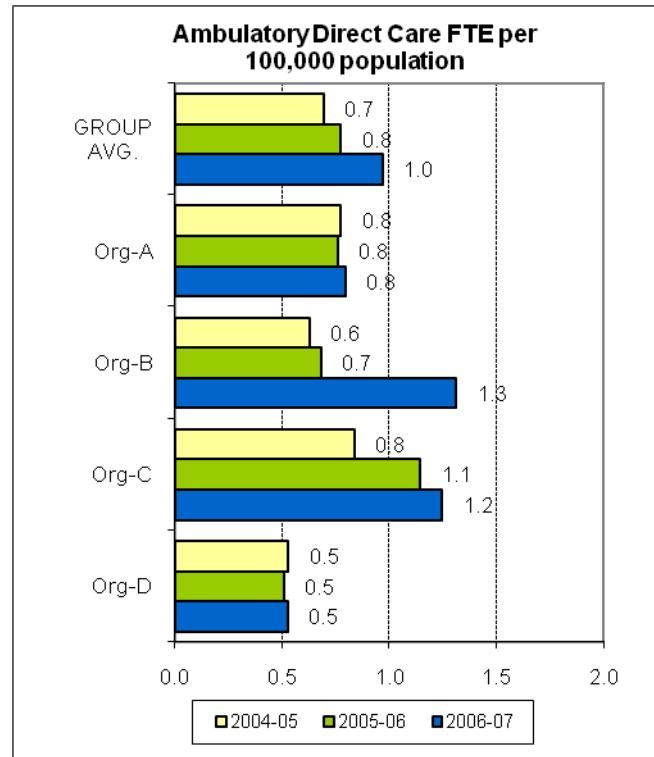health
strategy
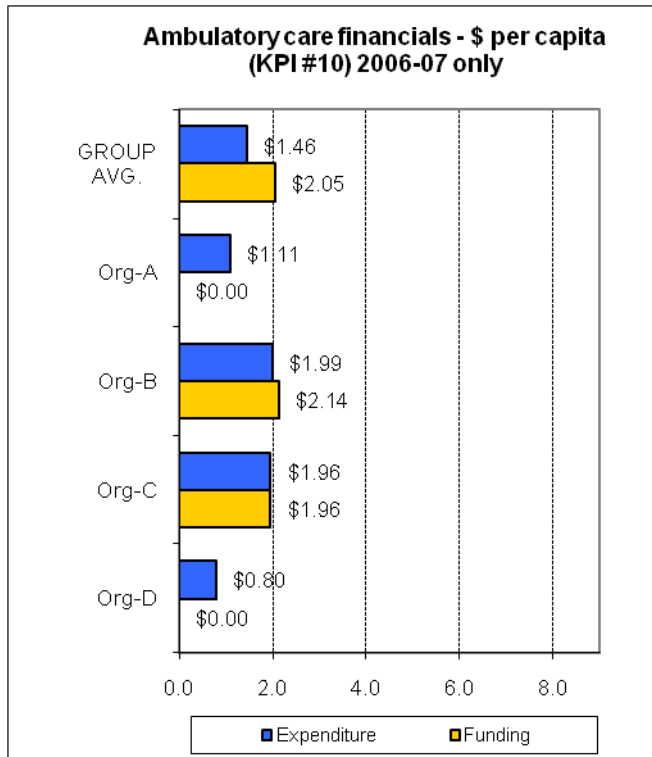
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THEME 2: EFFICIENCY IN USE OF RESOURCES

Indirect expenditure as % in scope total

	2004-05	2005-06	2006-07
GROUP AVG.	23%	14%	17%
Org-A	23%	23%	23%
Org-B	13%	16%	13%
Org-C	30%		15%
Org-D	24%	27%	19%

Salaries as % in scope total expenditure

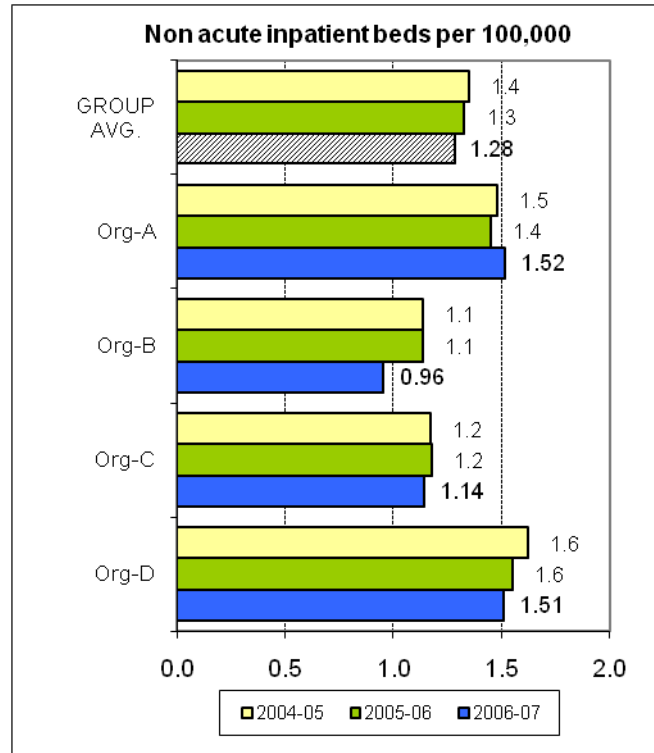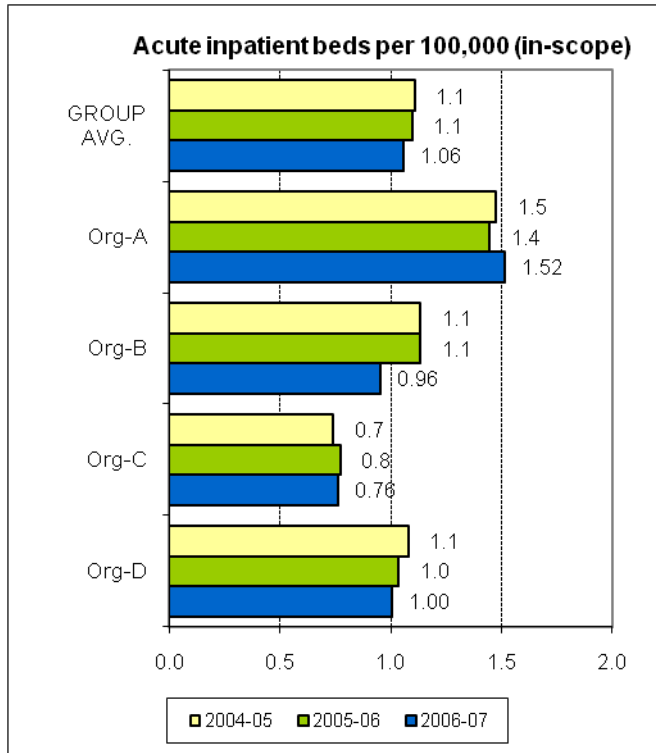|	2004-05	2005-06	2006-07
GROUP AVG.	72%	76%	77%
Org-A	77%	77%	77%
Org-B	84%	84%	85%
Org-C	54%	68%	72%
Org-D	71%	73%	73%

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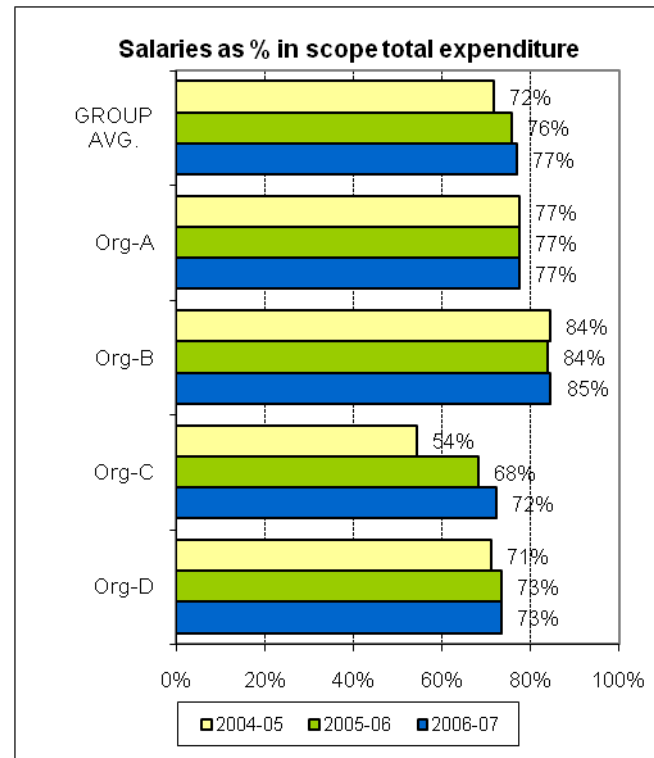State and Territory
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KPI#3 Average acute length of stay

	2004-05	2005-06	2006-07
GROUP AVG.	68.0	94.9	74.1
Org-A	22.1	19.5	18.1
Org-B	106.2		134.7
Org-C	93.4	83.7	72.8
Org-D	50.3	53.5	70.9

Acute inpatient length of stay - in scope vs all seps, 2006-07 only

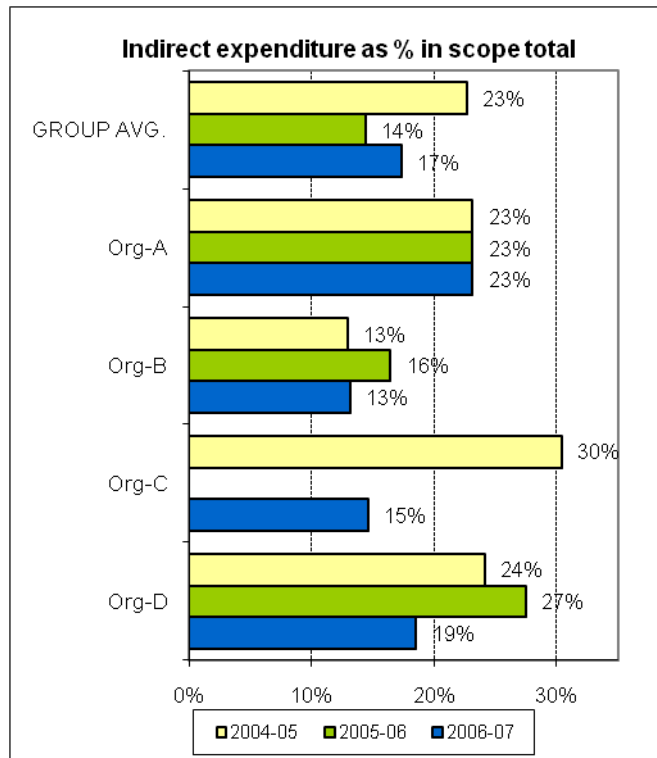|	In scope seps	All o/night seps
GROUP AVG.	74.1	145.3
Org-A	18.1	20.3
Org-B	134.7	405.2
Org-C	72.8	82.2
Org-D	70.9	73.5

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Acute inpatient LOS outliers (>180 days)

GROUP AVG. — 7%, 14%, 10%
Org-A — 0%, 0%, 0%
Org-B — 9%, 45%, 31%
Org-C — 14%, 7%, 4%
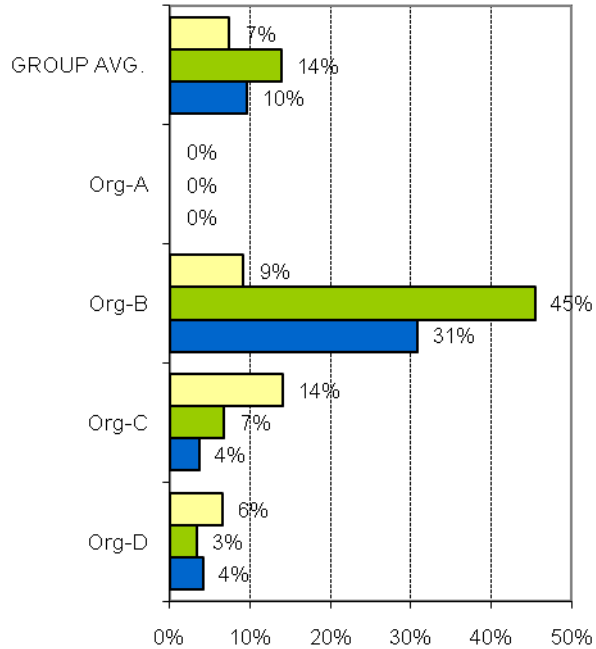Org-D — 6%, 3%, 4%

KPI #4 Cost per acute inpatient episode

GROUP AVG. — $54,626, $68,029, $55,673
Org-A — $25,081, $23,634, $22,134
Org-B — $75,847, $170,972, $107,856
Org-C — $69,693, $28,288, $25,257
Org-D — $47,883, $49,224, $67,445

☐ 2004-05 ☐ 2005-06 ■ 2006-07

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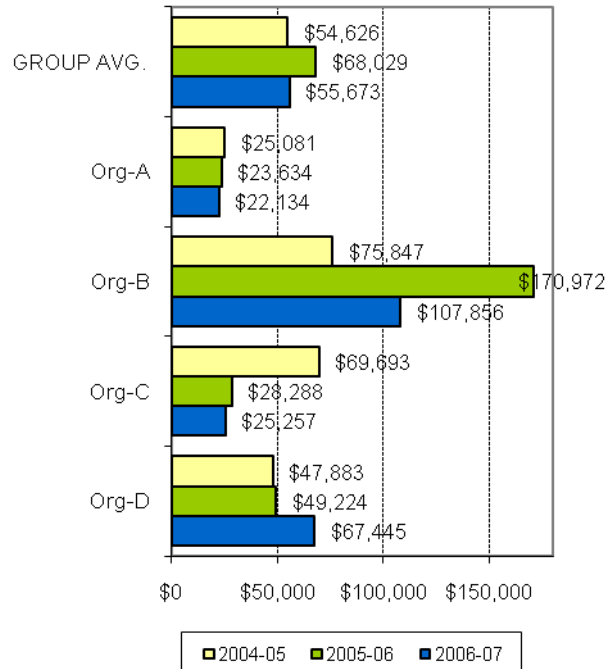
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Cost per day - acute inpatient units

	2004-05	2005-06	2006-07
GROUP AVG.	$887	$809	$830
Org-A	$1,135	$1,211	$1,222
Org-B	$714	$768	$801
Org-C	$746	$338	$347
Org-D	$952	$919	$951

Acute unit (s) - Derived occupancy

	2004-05	2005-06	2006-07
GROUP AVG.	92%	96%	97%
Org-A	95%	91%	93%
Org-B	98%	99%	98%
Org-C	75%	96%	96%
Org-D	99%	100%	100%

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Full year cost per inpatient bed

	2004-05	2005-06	2006-07
GROUP AVG.	$491,234	$491,099	$449,337
Org-A	$493,550	$508,350	$523,600
Org-B	$466,571	$516,536	$534,786
Org-C	$490,816	$246,763	$254,158
Org-D	$514,000	$497,705	$484,804

Full year cost per direct care ambulatory FTE

	2004-05	2005-06	2006-07
GROUP AVG.	$163,478	$142,296	$150,223
Org-A	$131,333	$135,238	$139,238
Org-B	$142,452	$151,071	$151,718
Org-C	$273,902	$148,313	$157,258
Org-D	$106,224	$134,561	$152,679

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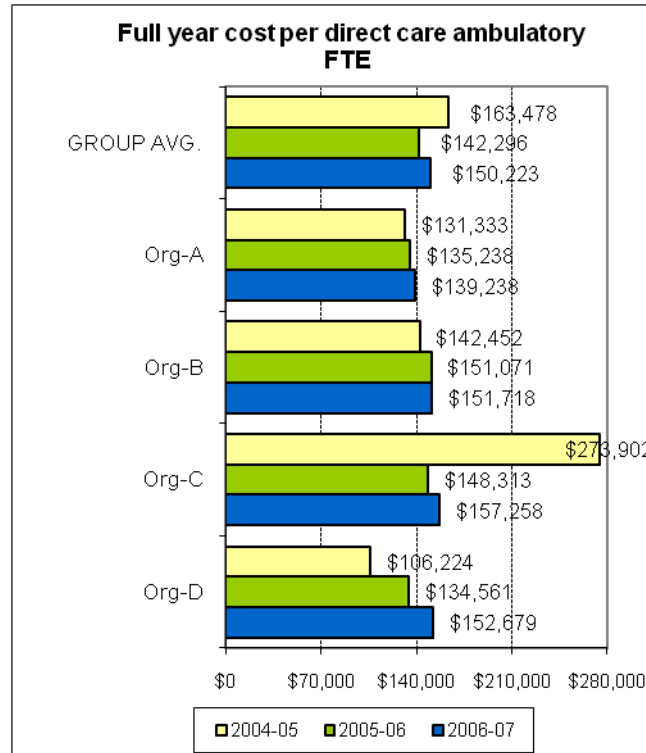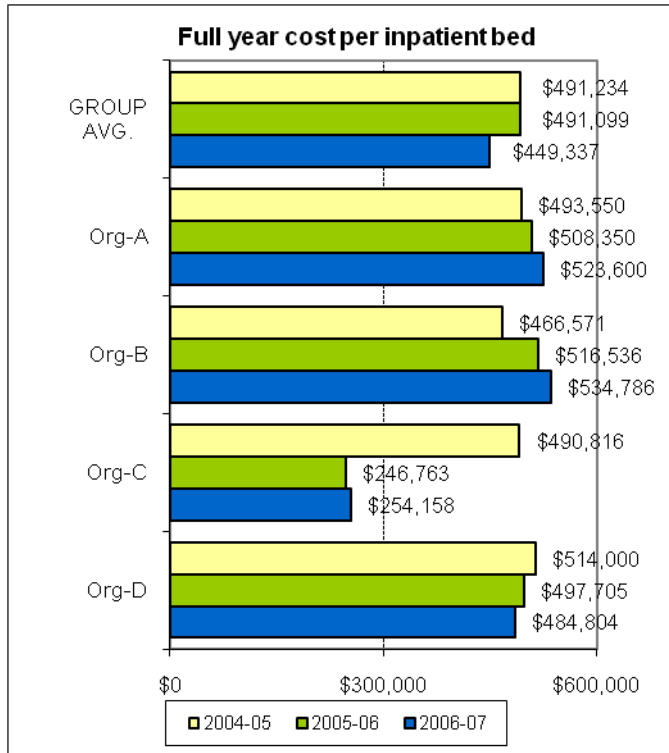KPI#5 Average treatment days per 3 month period of community care

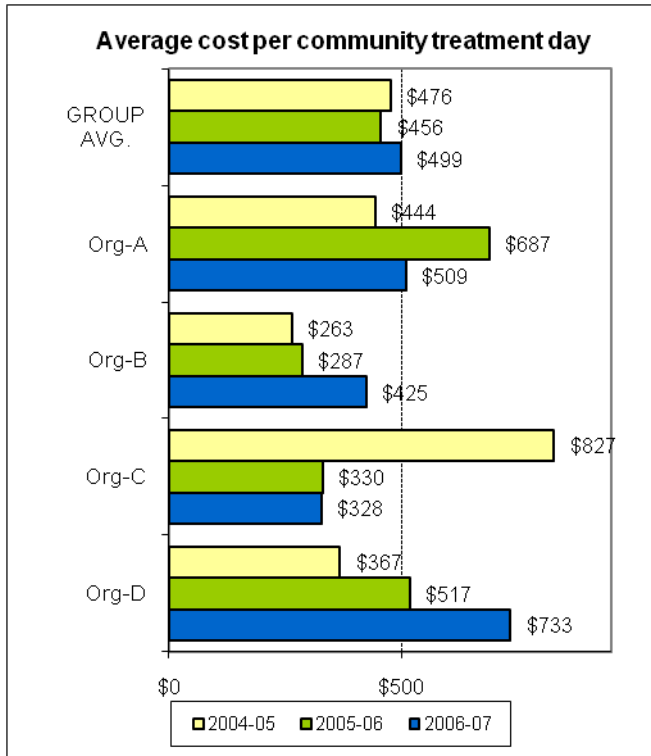|	GROUP AVG.	Org-A	Org-B	Org-C	Org-D
2004-05	6.0	10.4	3.7	3.5	6.4
2005-06	5.4	7.2	3.2	4.5	6.8
2006-07	5.9	10.0	2.9	4.1	6.4

KPI#6 Average cost per 3 month period of community care

	GROUP AVG.	Org-A	Org-B	Org-C	Org-D
2004-05	$2,704	$4,614	$968	$2,877	$2,358
2005-06	$2,717	$4,970	$917	$1,477	$3,504
2006-07	$3,094	$5,095	$1,238	$1,349	$4,693

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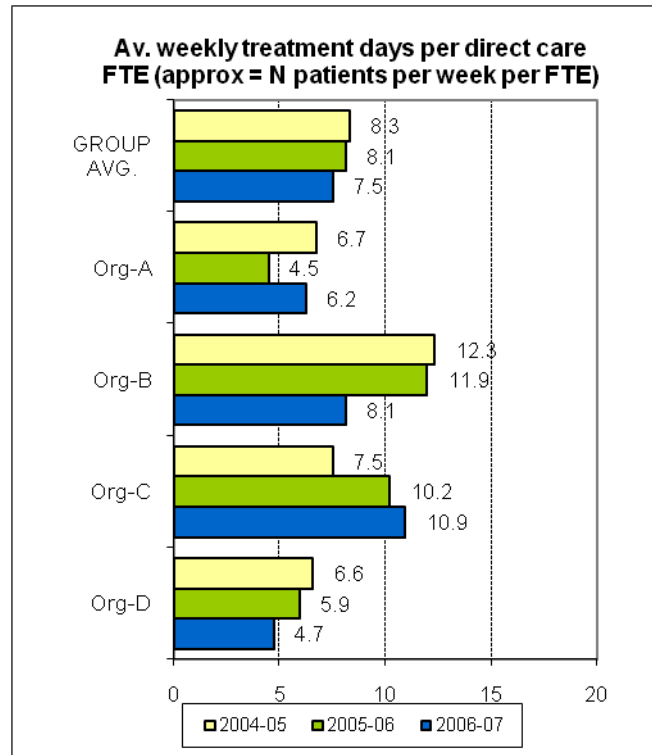
Average cost per community treatment day

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THEME 3: PRODUCTIVITY AND ACTIVITY OF AMBULATORY SERVICES

Av. weekly contacts per direct care FTE

Av. weekly treatment days per direct care FTE (approx = N patients per week per FTE)

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Av. number of people seen per year per ambulatory services direct care FTE

- GROUP AVG.: 60, 72, 72
- Org-A: 22.5, 40.3, 42.7
- Org-B: 136.4, 132.5, 103.7
- Org-C: 35.6, 72.1, 103.3
- Org-D: 46.5, 44.4, 38.5

Legend: 2004-05, 2005-06, 2006-07

'Assessment only' episodes (1 treatment day) as percent of total 3 month episodes

- GROUP AVG.: 33%, 45%, 47%
- Org-A: 24%, 62%, 60%
- Org-B: 25%, 46%, 47%
- Org-C: 52%, 38%, 43%
- Org-D: 32%, 34%, 36%

Legend: 2004-05, 2005-06, 2006-07

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

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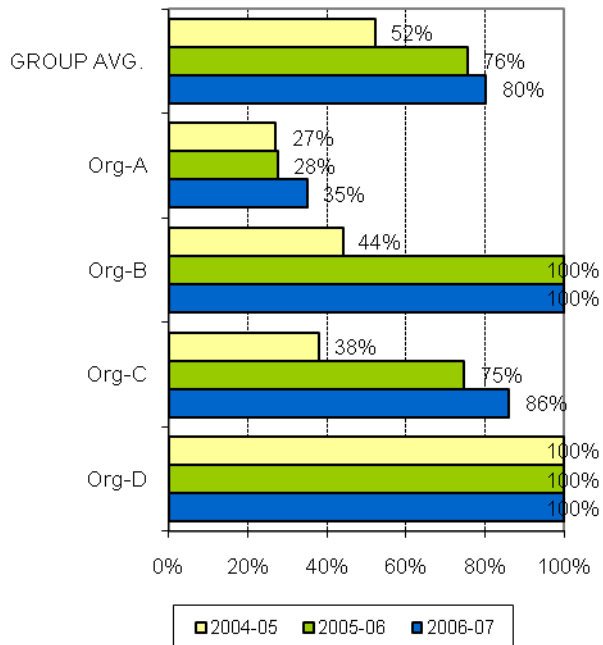
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THEME 4: CONTINUITY OF CARE
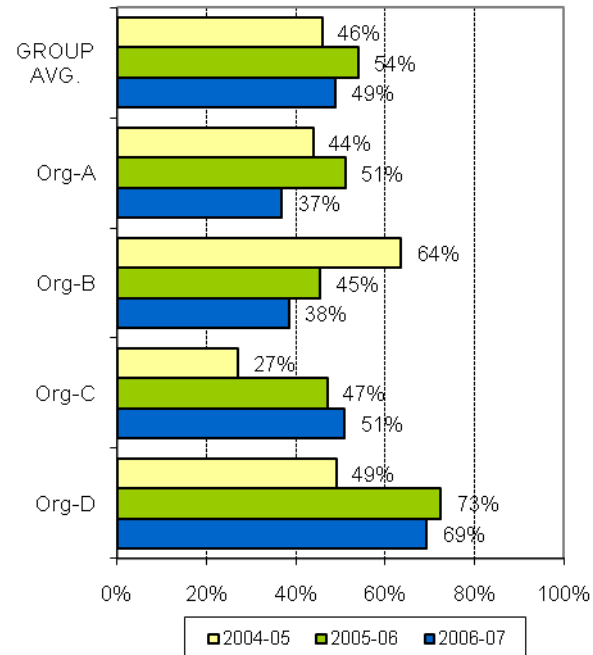
KPI#12 Post discharge community care - 28 days

GROUP AVG.: 45%, 69%, 60%
Org-A: 61%, 64%, 54%
Org-B: 36%, 82%, 54%
Org-C: 35%, 58%, 61%
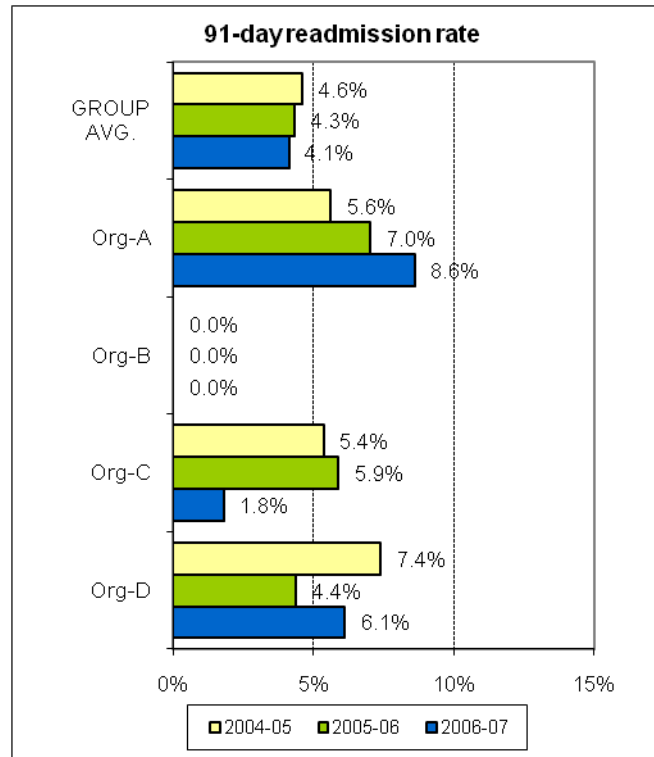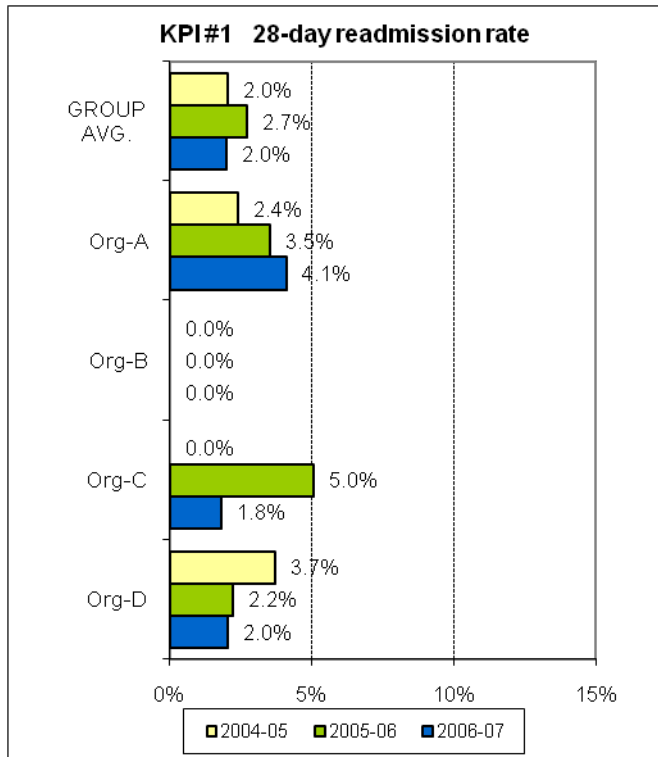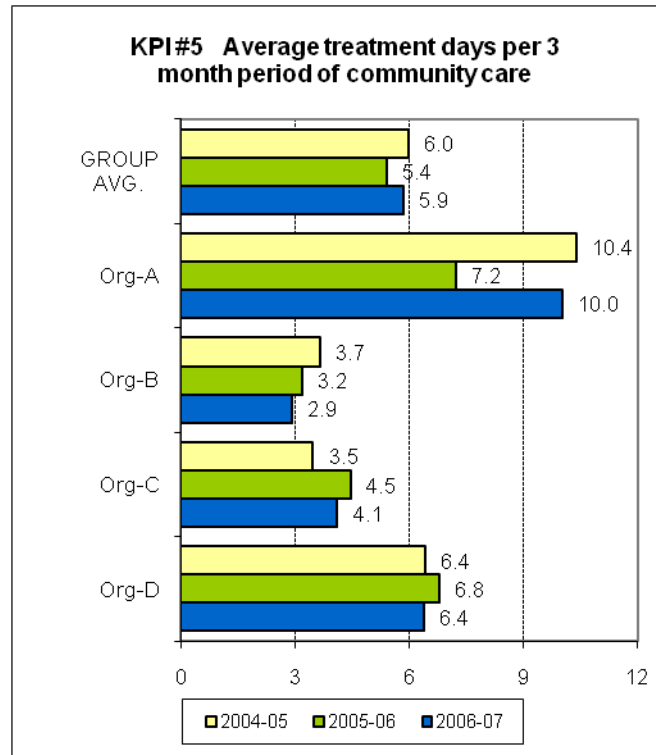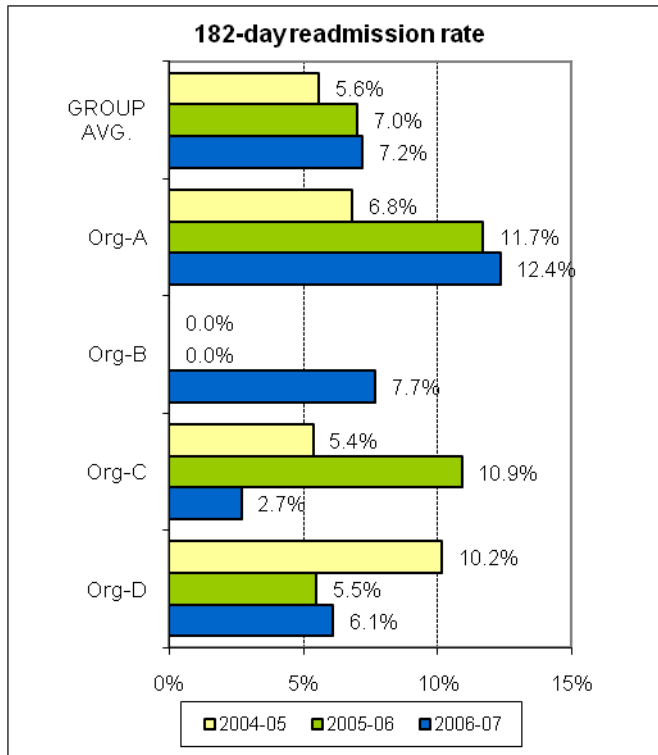Org-D: 49%, 74%, 69%

Legend: 2004-05, 2005-06, 2006-07

KPI#12 Post discharge community care 7 day follow up - by discharge destination

GROUP AVG.: 46% (Other), 52% (To Prison)
Org-A: 61% (Other), 8% (To Prison)
Org-B: 100% (Other), 27% (To Prison)
Org-C: 12% (Other), 74% (To Prison)
Org-D: 11% (Other), 100% (To Prison)

Legend: Other, To Prison

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182-day readmission rate

	2004-05	2005-06	2006-07
GROUP AVG.	5.6%	7.0%	7.2%
Org-A	6.8%	11.7%	12.4%
Org-B	0.0%	0.0%	7.7%
Org-C	5.4%	10.9%	2.7%
Org-D	10.2%	5.5%	6.1%

KPI #5   Average treatment days per 3 month period of community care

	2004-05	2005-06	2006-07
GROUP AVG.	6.0	5.4	5.9
Org-A	10.4	7.2	10.0
Org-B	3.7	3.2	2.9
Org-C	3.5	4.5	4.1
Org-D	6.4	6.8	6.4

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THEME 5: ACCESS TO AMBULATORY CARE

KPI#7a % target population receiving ambulatory services

GROUP AVG.	0.04% / 0.056% / 0.078%
Org-A	0.02% / 0.031% / 0.030%
Org-B	0.09% / 0.090% / 0.136%
Org-C	0.03% / 0.080% / 0.125%
Org-D	0.02% / 0.023% / 0.020%

Legend: 2004-05, 2005-06, 2006-07

Ambulatory Direct Care FTE per 100,000 population

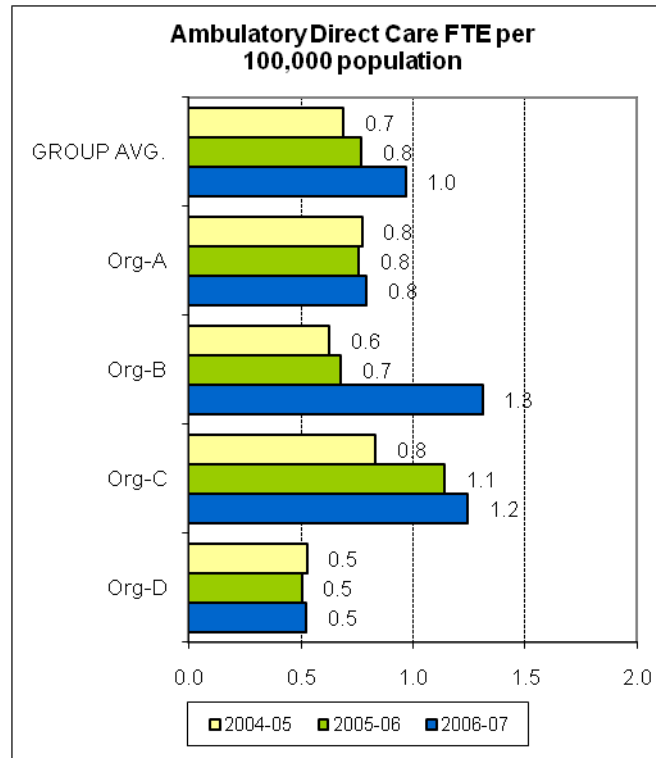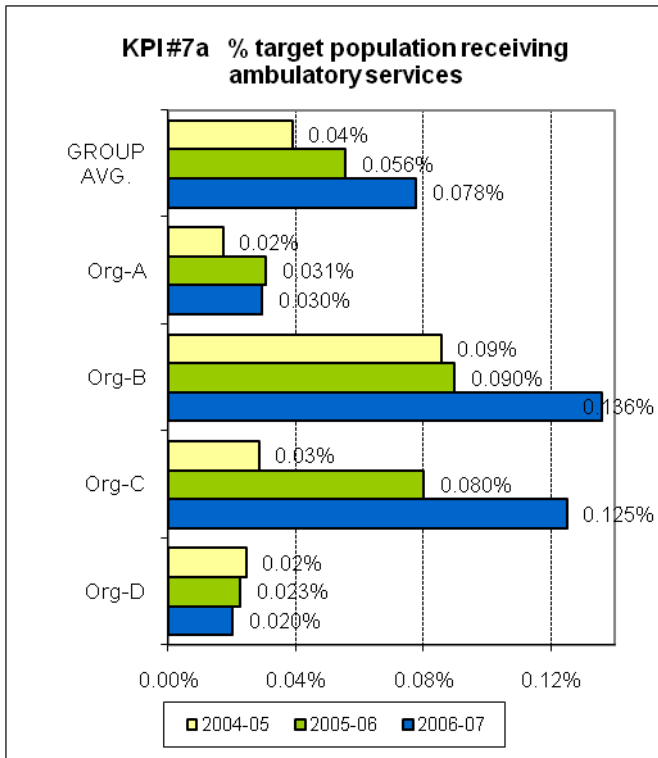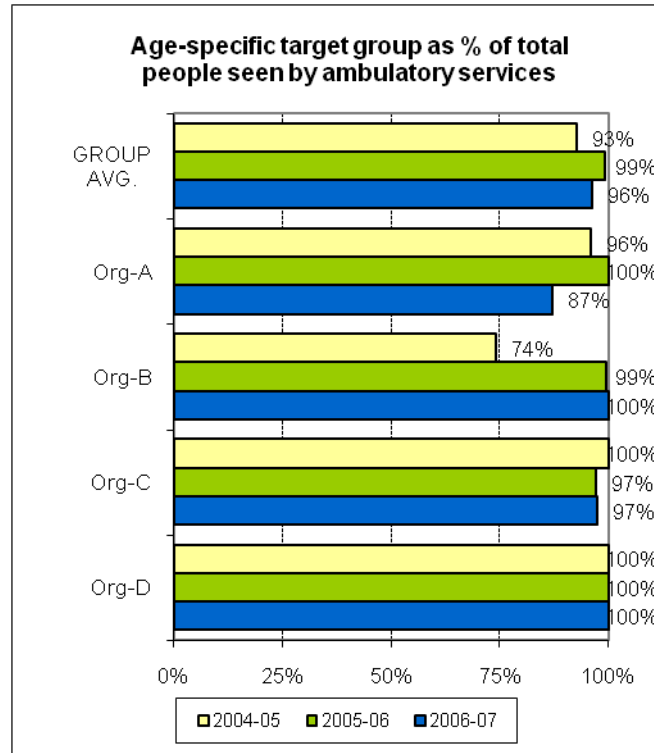|	
GROUP AVG.	0.7 / 0.8 / 1.0
Org-A	0.8 / 0.8 / 0.8
Org-B	0.6 / 0.7 / 1.3
Org-C	0.8 / 1.1 / 1.2
Org-D	0.5 / 0.5 / 0.5

Legend: 2004-05, 2005-06, 2006-07

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KPI#10a Area per capita resources - Ambulatory services

	2004-05	2005-06	2006-07
GROUP AVG.	$1.19	$1.11	$1.46
Org-A	$1.02	$1.03	$1.11
Org-B	$0.89	$1.03	$1.99
Org-C	$2.29	$1.70	$1.96
Org-D	$0.56	$0.68	$0.80

Age-specific target group as % of total people seen by ambulatory services

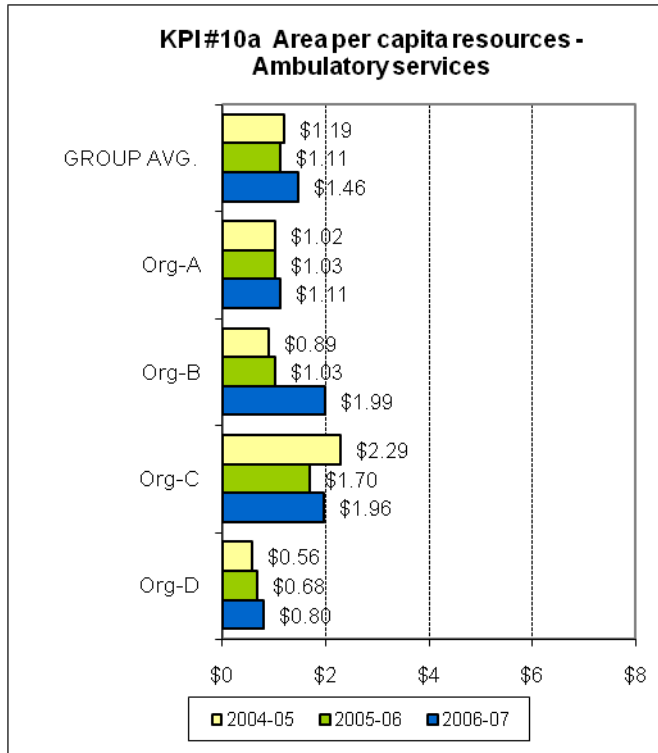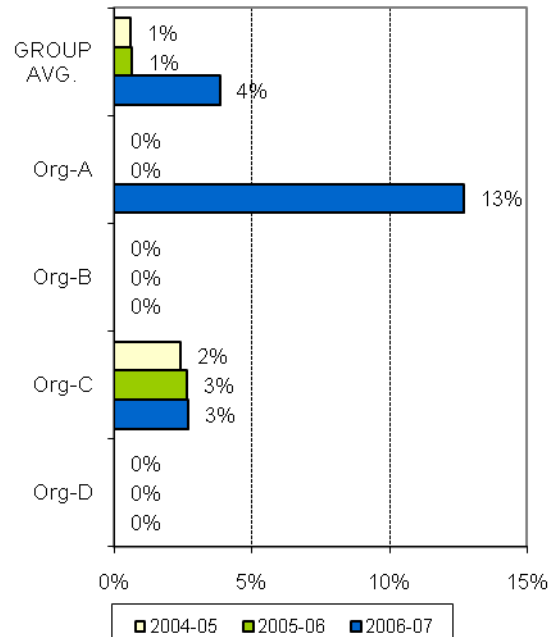|	2004-05	2005-06	2006-07
GROUP AVG.	93%	99%	96%
Org-A	96%	100%	87%
Org-B	74%	99%	100%
Org-C	100%	97%	97%
Org-D	100%	100%	100%

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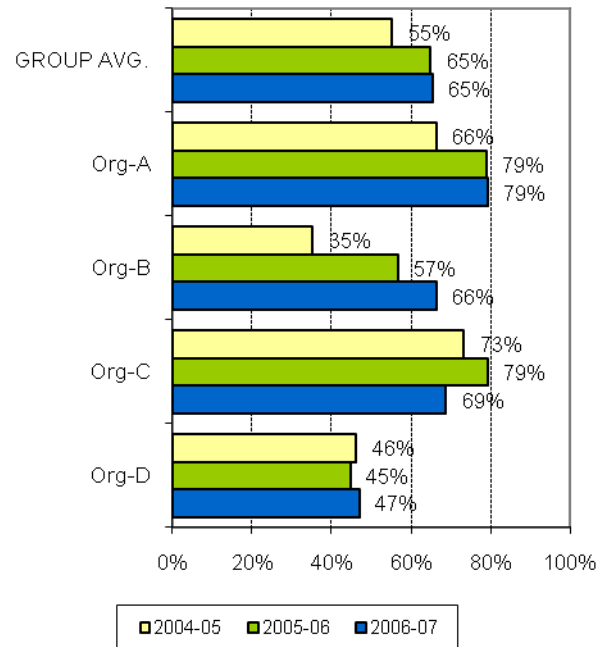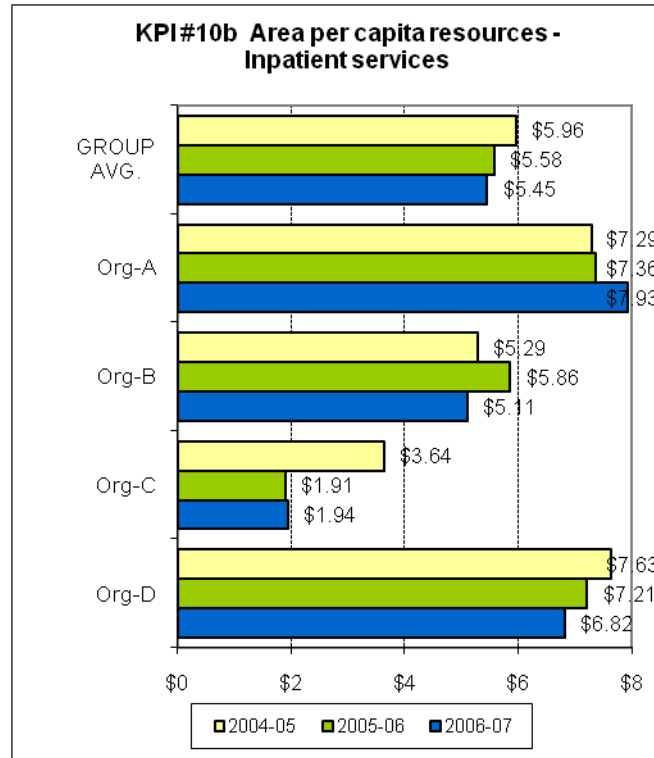**Percent of people seen by ambulatory services who reside external to catchment**

GROUP AVG. — 1%, 1%, 4%
Org-A — 0%, 0%, 13%
Org-B — 0%, 0%, 0%
Org-C — 2%, 3%, 3%
Org-D — 0%, 0%, 0%

2004-05   2005-06   2006-07

KPI#9 New client index

GROUP AVG. — 55%, 65%, 65%
Org-A — 66%, 79%, 79%
Org-B — 35%, 57%, 66%
Org-C — 73%, 79%, 69%
Org-D — 46%, 45%, 47%

2004-05   2005-06   2006-07

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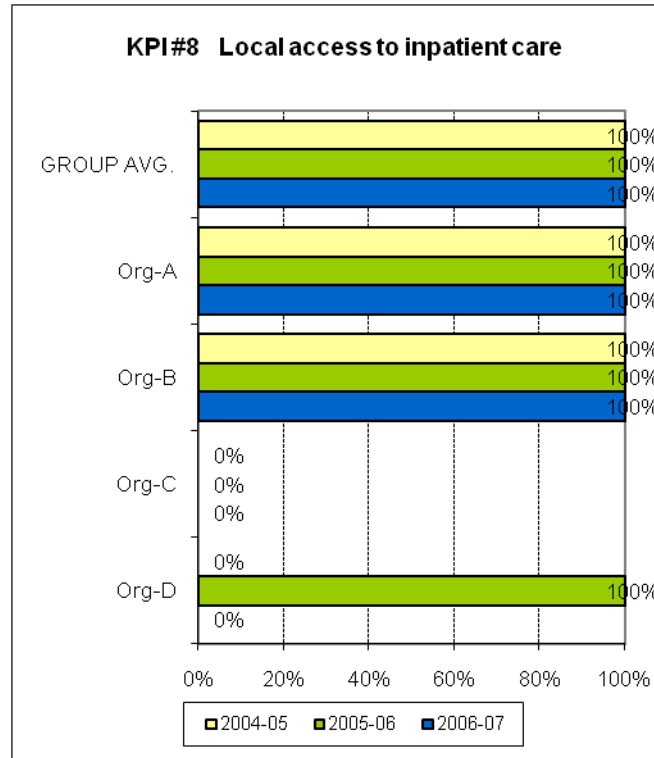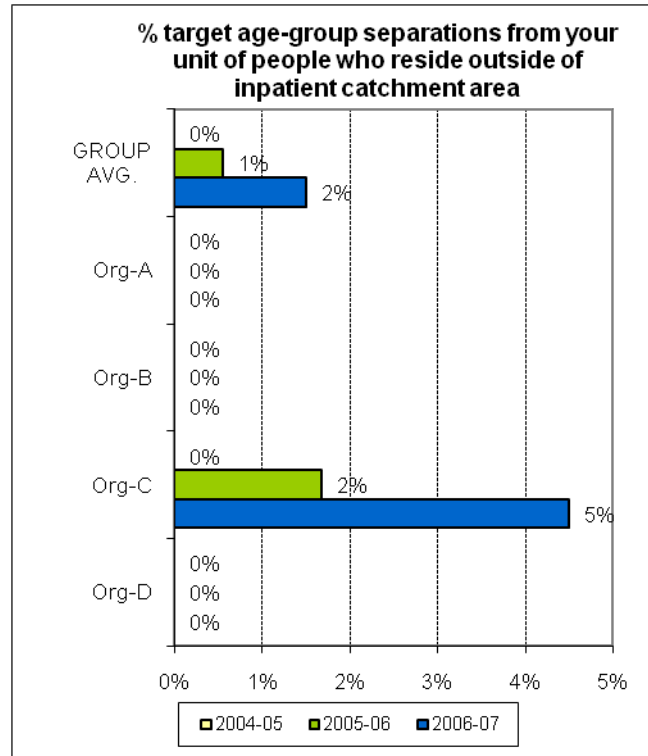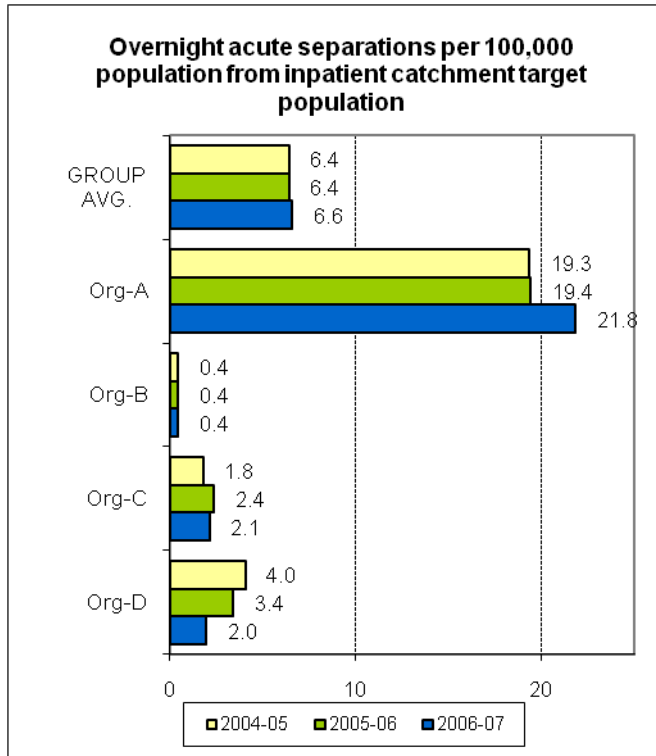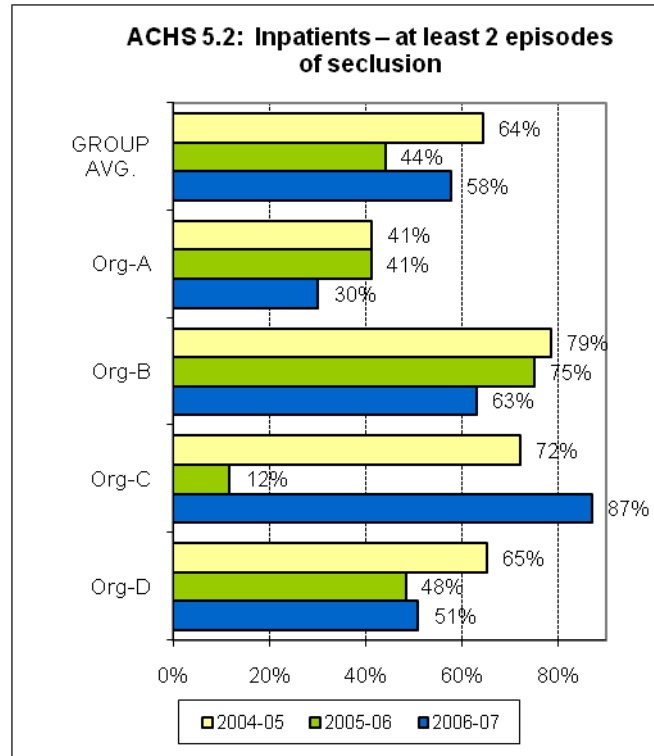
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THEME 6: ACCESS TO ACUTE INPATIENT CARE

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Total inpatient beds per 100,000 population

	2004-05	2005-06	2006-07
GROUP AVG.	2.5	2.4	2.3
Org-A	3.0	2.9	3.0
Org-B	2.3	2.3	1.9
Org-C	1.9	2.0	1.9
Org-D	2.7	2.6	2.5

KPI#8   Local access to inpatient care

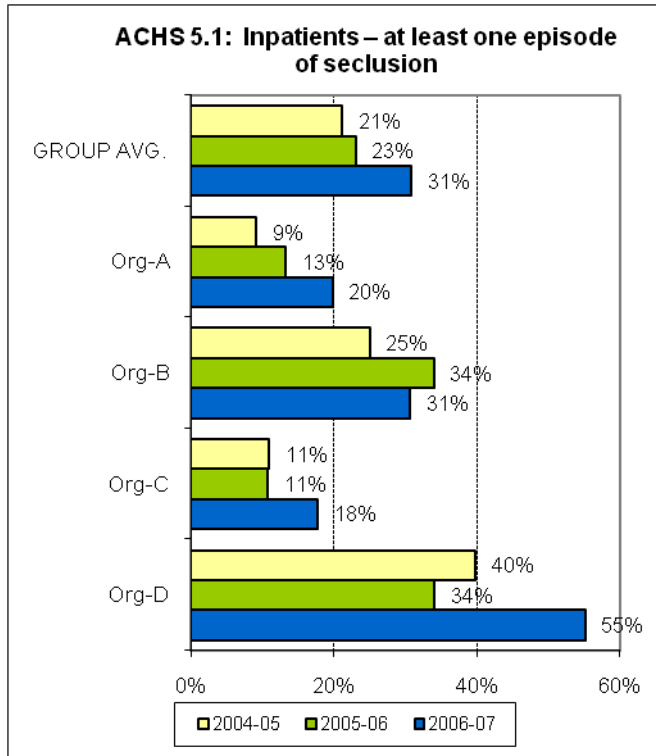|	2004-05	2005-06	2006-07
GROUP AVG.	100%	100%	100%
Org-A	100%	100%	100%
Org-B	100%	100%	100%
Org-C	0%	0%	0%
Org-D	0%	100%	0%

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Overnight acute separations per 100,000 population from inpatient catchment target population

	2004-05	2005-06	2006-07
GROUP AVG.	6.4	6.4	6.6
Org-A	19.3	19.4	21.8
Org-B	0.4	0.4	0.4
Org-C	1.8	2.4	2.1
Org-D	4.0	3.4	2.0

% target age-group separations from your unit of people who reside outside of inpatient catchment area

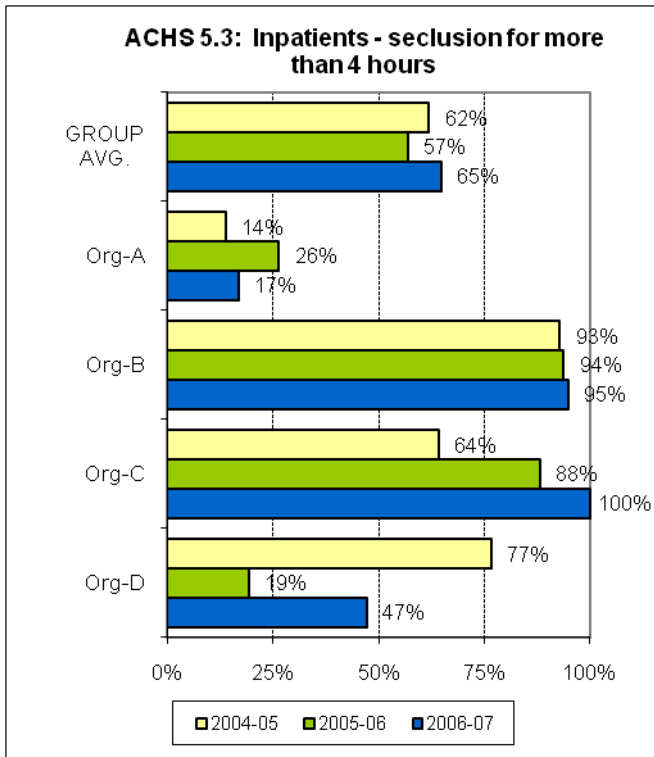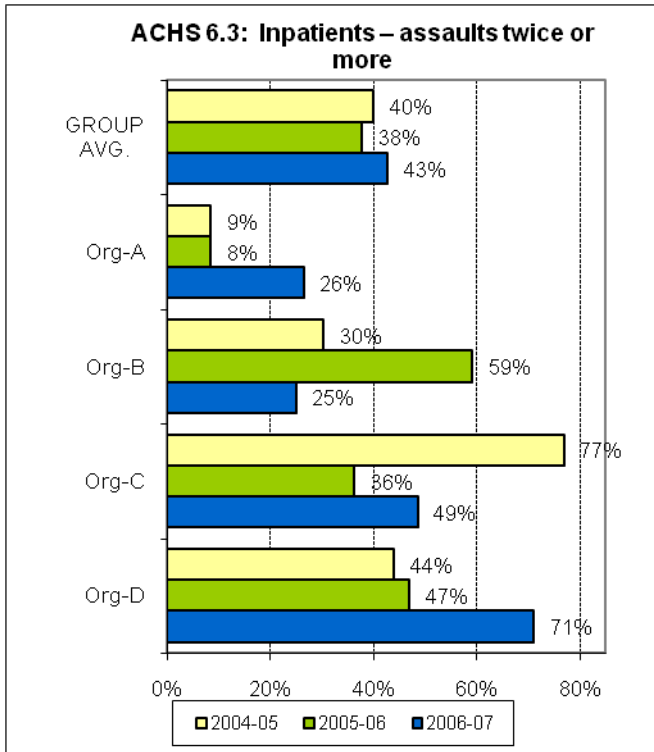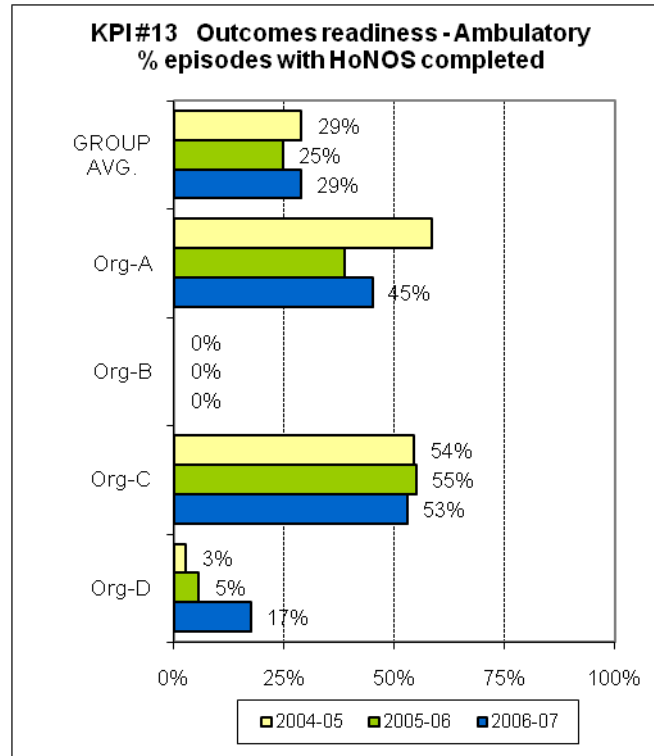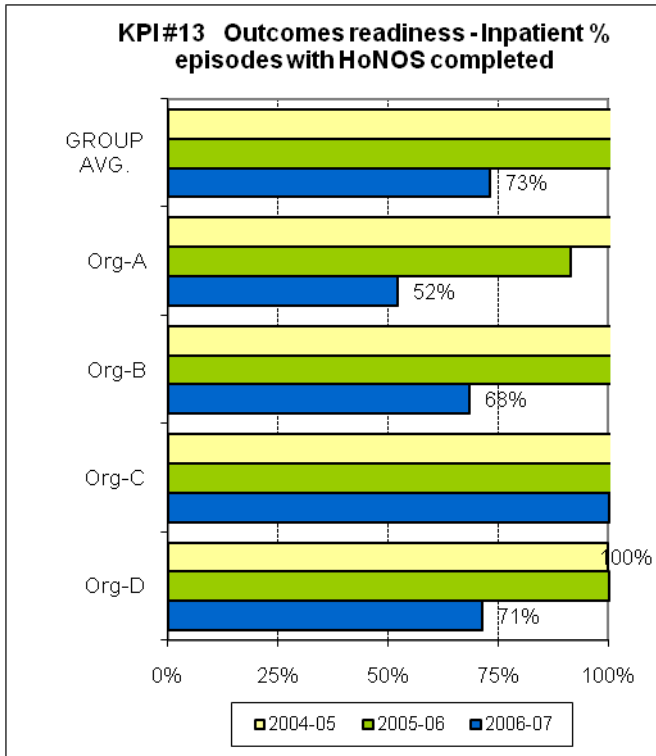|	2004-05	2005-06	2006-07
GROUP AVG.	0%	1%	2%
Org-A	0%	0%	0%
Org-B	0%	0%	0%
Org-C	0%	2%	5%
Org-D	0%	0%	0%

THEME 7: SAFETY (ACHS INDICATORS)

ACHS 5.1: Inpatients – at least one episode of seclusion

	2004-05	2005-06	2006-07
GROUP AVG.	21%	23%	31%
Org-A	9%	13%	20%
Org-B	25%	34%	31%
Org-C	11%	11%	18%
Org-D	40%	34%	55%

ACHS 5.2: Inpatients – at least 2 episodes of seclusion

	2004-05	2005-06	2006-07
GROUP AVG.	64%	44%	58%
Org-A	41%	41%	30%
Org-B	79%	75%	63%
Org-C	72%	12%	87%
Org-D	65%	48%	51%

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ACHS 5.3: Inpatients - seclusion for more than 4 hours

ACHS 6.2: Inpatients – assaults

ACHS 6.3: Inpatients – assaults twice or more

THEME 8: CAPABILITY

KPI #13 Outcomes readiness - Inpatient % episodes with HoNOS completed

KPI #13 Outcomes readiness - Ambulatory % episodes with HoNOS completed

THEME 9: ACUTE INPATIENT CASEMIX-(A) DIAGNOSIS PROFILE 2006-07

GROUP AVERAGE

2% · 1% · 2% · 10% · 7% · 7% · 2% · 71%

Org-D

0% · 0% · 4% · 4% · 0% · 13% · 80%

Org-C

4% · 3% · 0% · 3% · 3% · 9% · 77%

Legend:
- Schizophrenia and related
- Mood disorders
- Personality Disorders
- Neurotic, Stress, Somataform disorders
- Substance abuse
- Other
- Missing Diagnosis

Org-B

0% · 0% · 6% · 0% · 3% · 12% · 79%

Org-A

0% · 19% · 16% · 4% · 5% · 7% · 49%
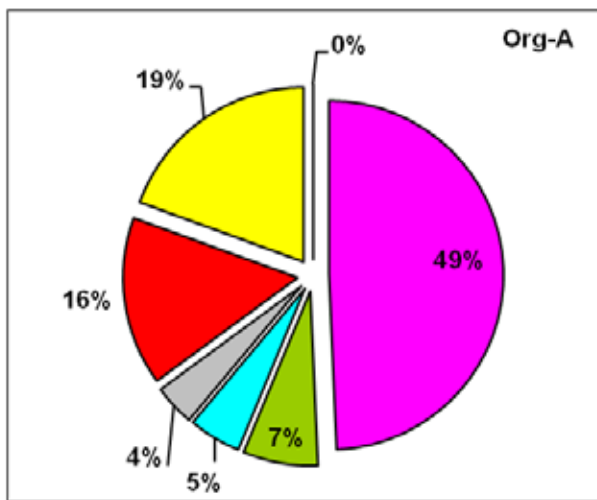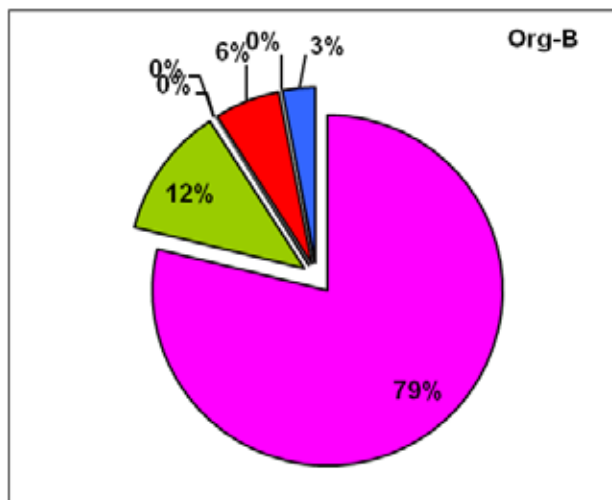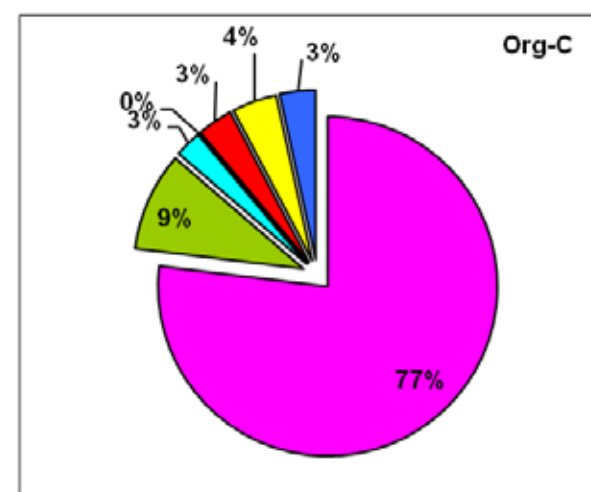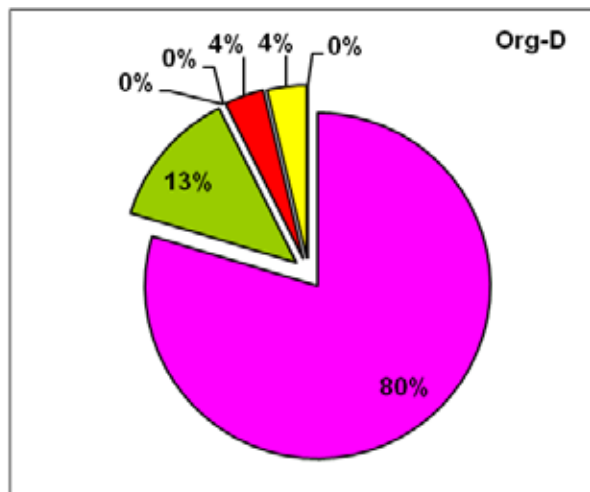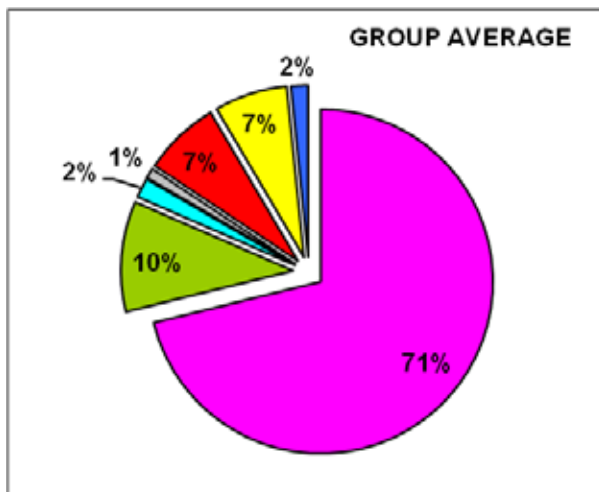
Percentage overnight separations included in the 2006-07 data:

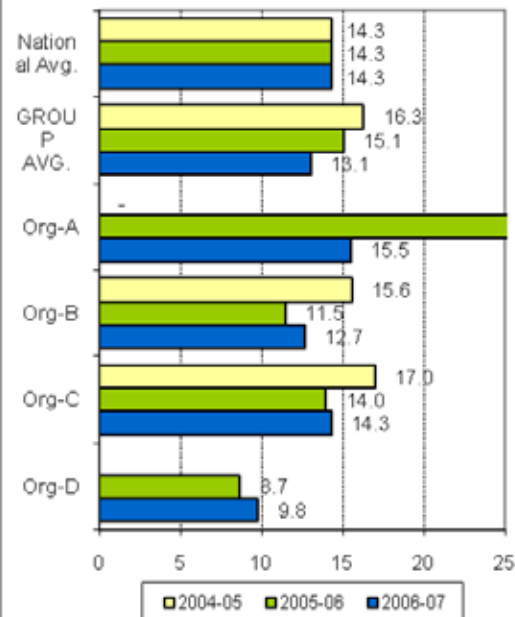| Group average	100%	Org-D	100%	Org-B	100%
		Org-C	100%	Org-A	100%

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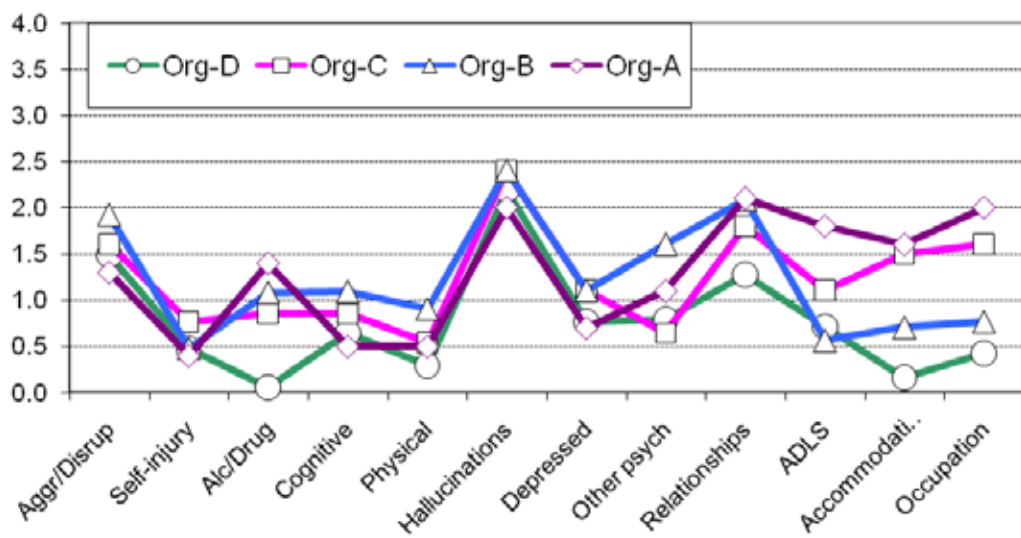"Sharing Information to Improve Outcomes"

Average HoNOS scores by item - Group vs National Avg. 2006-07
National average based on Adults at admission to acute inpatient care
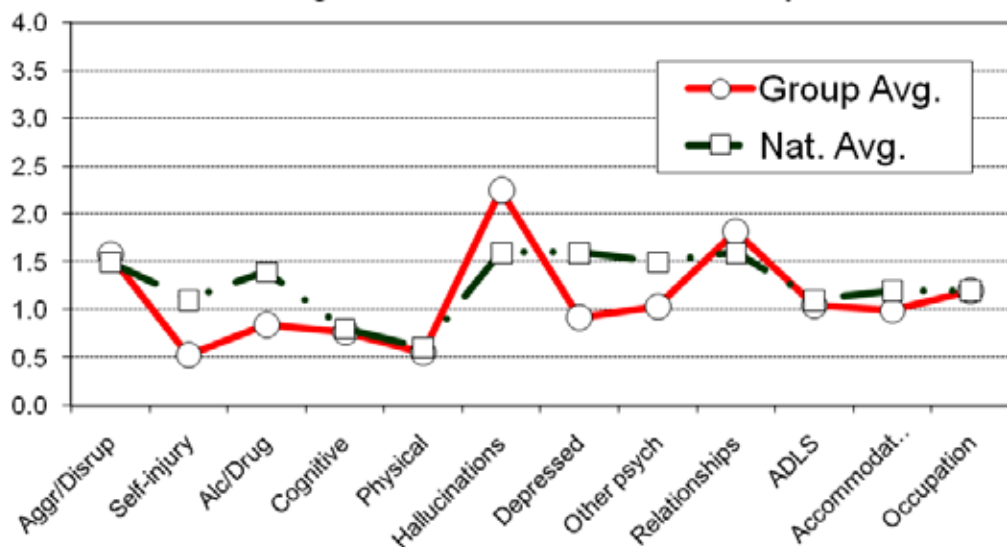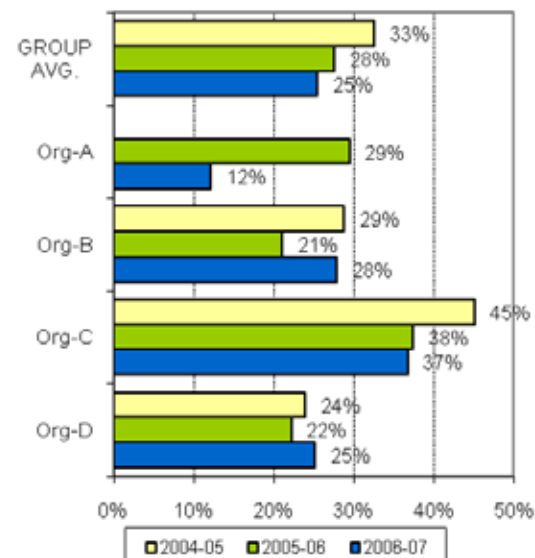
Av. HoNOS total scores at admission

Average HoNOS scores by item - Organisation comparison 2006-07

HoNOS individual item scores at admission - % clinically significant (> 2)

UNGROUPED SUPPLEMENTARY INDICATORS

Same day separations as percent of total acute separations

GROUP AVG.	2% (2004-05)	
	1% (2005-06)	
	1% (2006-07)	
Org-A	5% (2004-05)	
	2% (2005-06)	
	4% (2006-07)	
Org-B	4% (2004-05)	
	0% (2005-06)	
	0% (2006-07)	
Org-C	0%	
	0%	
	0%	
Org-D	0%	
	0%	
	2%	

0% 3% 5% 8% 10%

☐ 2004-05 ☐ 2005-06 ■ 2006-07

Percent overnight acute separations out of scope

GROUP AVG.	24% (2004-05)
	18% (2005-06)
	21% (2006-07)
Org-A	5%
	4%
	7%
Org-B	76%
	52%
	61%
Org-C	7%
	6%
	5%
Org-D	7%
	9%
	9%

0% 20% 40% 60% 80%

☐ 2004-05 ☐ 2005-06 ■ 2006-07

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