Mental Health: What The Data Tells Us

Stephen Watkins and Zoë Page

NHS Benchmarking Network

Raising standards through sharing excellence
Overview

• NHS Benchmarking Network
• Acute pathway
• Community based care
• Workforce
• Economics
• Discussion points
NHSBN Membership

- 351 members
- 82% Acute Trusts
- 100% MH Trusts
- 105 Community Providers
- 53% of CCG Commissioners
- 100% coverage in Wales
- Scotland
- Independent sector
- National organisations (NHSE, DH, Monitor, HEE)
Benchmarking project reports and good practice guidance

- Mental health inpatients
- Community mental health
- CAMHS
- Learning Disability

- Emergency Care
- Radiology
- Pharmacy
- Theatres
- Older people
- Acute therapies
- Shared & Corporate services

- Community services
- Community hospitals

- Integrated Care
- Medicine Management
- Urgent Care
- Planned Care
- Intermediate care
National interest & involvement
Background and Process 2015

- MH reference group direction and content management
- Trust and LHB Chief Executive consultation
- Definitions development
- Collection process May – August 2015
- Telephone helpline, e-mail, and Q&A support to members
- Data validation – consistency review, outlier feedback, member review
- First draft reports
- Changes, updated reports and sign-off
- Publication
Participants
Adult Inpatient and Community Mental Health Benchmarking

- 67 participants - largest ever number of contributors
- 100% coverage across Trusts and LHBs England & Wales
- Scotland representation
- Additional independent sector providers for specialist services
Benchmarking Results 2015

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How many beds do we have?

- 22,583 Adult beds provided by the NHS (1,096 CAMHS beds)
- Excludes independent sector beds (+15% of English total)
- 45 beds per 100,000 population (below OECD average)

- Wales 54 per 100,000 population
- England 43 per 100,000 population
What type of beds do we have?

- Adult Acute (35%)
- Older Adult (22%)
- Medium Secure (10%)
- Longer Term Complex / Continuing Care (8%)
- Low Secure (7%)
- High Dependency Rehab (6%)
- PICU (4%)
- High Secure (3.5%)
- Mother and Baby (0.5%)
- Eating Disorders (1%)
- Other beds (3%)
Adult Acute services

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Example benchmarking comparisons

Adult acute beds – aggregate values by Trust

- Not a benchmarking comparison
- Mean value of 124 beds per Trust / LHB
Example benchmarking comparisons

Adult acute beds per 100,000 registered population (16-64)
(5% reduction in national mean and median positions)

- Mean average bed provision of 21 adult acute beds per 100,000 registered population (16-64)
- Median = 19 beds
- 17% reduction in last 3 years
- North West peer group shown
Map of Variation – Adult Acute beds

Adult acute beds per 100,000 registered population (16-64)
Example benchmarking comparisons
Adult acute beds per 100,000 weighted population (16-64)

- Weighted population comparisons change the position in the distribution for many Trusts.
Example benchmarking comparisons

Bed reductions - Adult acute beds per 100,000 population (16-64) over 3 years 2012 - 2015

Q30 North East SHA
Q31 North West SHA
Q32 Yorkshire and the Humber SHA
Q33 East Midlands SHA
Q34 West Midlands SHA
Q35 East of England SHA
Q36 London SHA
Q37 South East Coast SHA
Q38 South Central SHA
Q39 South West SHA
Example benchmarking comparisons
Admissions to adult acute beds per 100,000 registered population (16-64), (minimal change)

- 2014/15 mean admissions are 234 per 100,000 population (median is 221)
- 232 in 2013/14
- 236 in 2012/13
Example benchmarking comparisons
Mean length of stay in adult acute beds excluding leave

- 2014/15 mean average length of stay is 32 days
- 2013/14 32 days
- 30.2 days in 2012/13
Example benchmarking comparisons
Mean length of stay in adult acute beds (excluding leave)

Patients under Mental Health Act section

- 2014/15 mean ALOS = 46 days
- 2013/14 mean is 44 days
- 2012/13 = 45 days
Example benchmarking comparisons

Use of the Mental Health Act

- Overall admissions under the Mental Health Act increased by 10% last year to 33% of all admissions
- Adult acute admissions shown by Trust
Example benchmarking comparisons

Unplanned re-admissions to adult acute beds per 100,000 registered population (16-64) (marginal reduction)

- 2014/15 median = 9.2%
- 2013/14 mean re-admissions = 8.8%
- 2012/13 rate = 9%

Number of emergency readmissions within 30 days during the year: as a % of admissions
Example benchmarking comparisons

Adult acute bed occupancy excluding leave (national increase)

- 2014/15 median bed occupancy increases to 94% from 93% 2013/14, and 89% in 2012/13
- 4th consecutive year of occupancy increase
Example benchmarking comparisons
Delayed transfers of care 2014/15 as % total bed days (national increase)

- 2014/15 DTOC accounts for 4.7% of all Adult Acute bed days
- 4.1% in 2013/14
- 3.8% 2012/13
- Readmissions also increased marginally
Adult Acute conclusions

- Fewer beds
- Acuity increased
- Psychosis cohort
- Occupancy up
- DTOC pressure
- Readmissions
Older Adult services

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Example benchmarking comparisons
Provision of Older Adult beds per 100,000 population
(6% median national reduction)

- 2014/15 median beds = 47 per 100,000 population (65+)
- 2013/14 = 50
- 2012/13 = 60
Example benchmarking comparisons
Average Length of stay in Older Adult beds 2014/15 excluding leave (national increase)

- 2014/15 ALOS = 76 days, (72 median)
- 2013/14 = 72 days
- 2012/13 position = 67
Example benchmarking comparisons
Bed Occupancy in Older Adult beds 2014/15 (excluding leave)

- 2014/15 Older Adult occupancy = 84%
- 2013/14 = 85%
- 2012/13 position = 83%
- Functional (45%) / Organic (55%) split
Older Adult conclusions

- Fewer beds
- Occupancy static & consistent with RCPsych guidelines
- DTOC pressures
- Readmissions
Specialist services

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Example benchmarking comparisons
Provision of Psychiatric Intensive Care Unit beds – aggregate (national increase)

- 2014/15 marginal increase in PICU provision
- Chart shows absolute bed numbers provided which average 16 per NHS provider
Example benchmarking comparisons
Mean length of stay in Psychiatric Intensive Care Unit beds (national increase)

- 2014/15 PICU average length of stay = 45 days
- 2013/14 PICU = 43 days
- 48 days in 2012/13
# Benchmarking Specialist Beds

## Profiling average length of stay & workforce

<table>
<thead>
<tr>
<th>Bed Type</th>
<th>Average length of stay (days)</th>
<th>Consultant Psychiatrist per 10 beds</th>
<th>Total Nursing per 10 beds</th>
</tr>
</thead>
<tbody>
<tr>
<td>PICU</td>
<td>45</td>
<td>0.7</td>
<td>28</td>
</tr>
<tr>
<td>Low Secure</td>
<td>594</td>
<td>0.7</td>
<td>17</td>
</tr>
<tr>
<td>Medium Secure</td>
<td>548</td>
<td>0.7</td>
<td>20</td>
</tr>
<tr>
<td>High Secure</td>
<td>2,450</td>
<td>0.5</td>
<td>21</td>
</tr>
<tr>
<td>Eating Disorders</td>
<td>100</td>
<td>0.8</td>
<td>17</td>
</tr>
<tr>
<td>Mother and Baby</td>
<td>39</td>
<td>1.2</td>
<td>28</td>
</tr>
<tr>
<td>High dependency rehabilitation</td>
<td>409</td>
<td>0.3</td>
<td>14</td>
</tr>
<tr>
<td>Longer term complex / continuing care</td>
<td>760</td>
<td>0.3</td>
<td>14</td>
</tr>
</tbody>
</table>
Inpatient workforce

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Example benchmarking comparisons
Consultant Psychiatrists per 100 Adult Acute beds

- 2014/15 Consultant Psychiatrists per 100 Adult Acute beds = 5
- No change from 2012/13
- SpRs also average 5 WTE per 100 Adult Acute beds
Example benchmarking comparisons
Nursing staff per 100 Adult Acute beds

- 2014/15 = 142 WTE per 100 Adult Acute beds
- 2013/14 = 140 WTE
PbR clustering & diagnosis codes

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Example benchmarking comparisons

Profile of Trust level PbR patient cluster profiles

65% of Adult Acute beds are occupied by people with a psychosis
Community services

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Example benchmarking comparisons
Community Mental Health Teams - Caseloads per 100,000 population 2014/15

- 2014/15 1,709 caseload per 100,000 population for all CMHTs
- CMHT Referral acceptance rates average 80%
Map of Variation – Community Caseloads

Community MH Team caseloads per 100,000 registered population

Min Max
Example benchmarking comparisons
Community Mental Health Teams - Contact levels per 100,000 population 2014/15

- 2014/15 = 34,707 mean contacts per 100,000 population for all CMHTs
- 76% are face to face contacts
Map of Variation – Community Contacts
Community MH Team contacts per 100,000 registered population

Min
Max
Who receives community based mental health care?

**Contacts By Cluster**

The intensity of community support required varies by cluster:

**Clusters 1 - 8**
- 35% of patients
- 38% of activity

**Clusters 10-16**
- 30% of patients
- 39% of activity

**Cluster 17**
- 2% of patients
- 5% of activity

**Clusters 18-21**
- 31% of patients
- 14% of activity
<table>
<thead>
<tr>
<th>Bed Type</th>
<th>Emergency appt (days)</th>
<th>Routine apt – average wait (weeks)</th>
<th>Routine apt av – longest wait (weeks)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generic CMHT</td>
<td>12</td>
<td>5</td>
<td>30</td>
</tr>
<tr>
<td>CRHT</td>
<td>&lt;1</td>
<td>&lt;1</td>
<td>4</td>
</tr>
<tr>
<td>Assertive Outreach</td>
<td>14</td>
<td>4</td>
<td>14</td>
</tr>
<tr>
<td>Early Intervention</td>
<td>5</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>Assessment &amp; Brief</td>
<td>6</td>
<td>3</td>
<td>13</td>
</tr>
<tr>
<td>Intervention</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eating Disorders</td>
<td>18</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Mother and Baby</td>
<td>20</td>
<td>5</td>
<td>18</td>
</tr>
<tr>
<td>Older People</td>
<td>6</td>
<td>2</td>
<td>29</td>
</tr>
<tr>
<td>Memory Services</td>
<td>5</td>
<td>6</td>
<td>19</td>
</tr>
</tbody>
</table>
Finance

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Example benchmarking comparisons

Community Mental Health Service Costs
Annual cost per service user on CMHT caseload 2014/15

- CMHT cost per service user on caseload 2014/15 = £2,816
- £193 per face to face contact

![Graph showing cost comparisons for CMHT]
## Benchmarking Beds
### Profiling inpatient costs

<table>
<thead>
<tr>
<th>Bed Type</th>
<th>Average cost per admission £</th>
<th>Average cost per bed per annum £</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult Acute</td>
<td>£11,300</td>
<td>£126,000</td>
</tr>
<tr>
<td>Older Adult</td>
<td>£32,000</td>
<td>£136,000</td>
</tr>
<tr>
<td>PICU</td>
<td>£37,000</td>
<td>£218,000</td>
</tr>
<tr>
<td>Low Secure</td>
<td>£346,000</td>
<td>£143,000</td>
</tr>
<tr>
<td>Medium Secure</td>
<td>£394,000</td>
<td>£172,000</td>
</tr>
<tr>
<td>Eating Disorders</td>
<td>£50,000</td>
<td>£160,000</td>
</tr>
<tr>
<td>Mother and Baby</td>
<td>£35,000</td>
<td>£199,000</td>
</tr>
<tr>
<td>High dependency rehabilitation</td>
<td>£194,000</td>
<td>£111,000</td>
</tr>
<tr>
<td>Longer term complex / continuing care</td>
<td>£435,000</td>
<td>£113,000</td>
</tr>
</tbody>
</table>
Economic comparisons

1 adult acute bed
= 44 patients on a CMHT caseload

1 adult acute bed
= 18 patients on an EIP team caseload

1 older adult bed
= 35 patients on an older adult CMHT caseload
Safety and quality

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Service quality comparisons

Benchmarking service quality

- Most service delivery quality metrics show improvement in 2014/15

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Incidents per 100,000 bed days 2014/15</th>
<th>Incidents per 100,000 bed days 2013/14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious incidents</td>
<td>72</td>
<td>79</td>
</tr>
<tr>
<td>Medication incidents</td>
<td>364</td>
<td>373</td>
</tr>
<tr>
<td>Seclusion</td>
<td>158</td>
<td>198</td>
</tr>
<tr>
<td>Violence to patients</td>
<td>289</td>
<td>293</td>
</tr>
<tr>
<td>Violence to staff</td>
<td>590</td>
<td>597</td>
</tr>
</tbody>
</table>
Example benchmarking comparisons

Benchmarking service quality – illustrative example

CMHT patient satisfaction rate 2014/15

- 2014/15 = 69%
  service user satisfaction
- 2013/14 = 73%
- 2012/13 = 70%
Example benchmarking comparisons

Benchmarking service quality – illustrative example

Staff satisfaction rate 2014/15

- 2014/15 = 76%
- 2013/14 = 76%
- 2012/13 = 74%

Quality Outcome Measures - NHS Staff Survey results % feeling satisfied with the quality of work and patient care they are able to deliver

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Balance of Care

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Example benchmarking comparisons

Benchmarking the balance of care between bed and community

Activity – admissions versus community caseload

- 2014/15
- Inpatient median = 11%
- Community median = 89%
- Same position as last year
Example benchmarking comparisons
Benchmarking the balance of care between bed and community
Workforce

- 2014/15
- Inpatient median = 46%
- Community median = 54%
- Change from 2013/14 driven by Safer Staffing

Finance
Inpatient = 49%
Community = 51%
Reports

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Reports

- Bespoke reports for each CCG
Reports: Part A

- Individual, CCG level data
- Compares CCGs with others in same region e.g. North West

% of patients waiting < 28 days for IAPT (April 2014)

- CCG013: 61%
- Mean: 63%
- Median: 68%
- Upper Q: 81%
- Lower Q: 45%
- SHA:
- Trusts:
Reports: Part B

- Mental Health Trust level data
- CCGs mapped to their main provider Trust
- Compares Trusts with others in same region e.g. North West
Now available to download from:

www.nhsbenchmarking.nhs.uk/masterclass

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Thank You

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