**Ballina District Hospital**: Activity profiles, potentially avoidable admissions for COPD and CHF  
July 2009 to June 2010

<table>
<thead>
<tr>
<th></th>
<th>This period (2009-10)</th>
<th>Last period (2008-09)</th>
<th>Peer group (2009-10)</th>
<th>CHF&lt;sup&gt;a&lt;/sup&gt;</th>
<th>This period (2009-10)</th>
<th>Last period (2008-09)</th>
<th>Peer group (2009-10)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total hospitalisations</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>8,472</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8,613</td>
<td></td>
</tr>
<tr>
<td><strong>Select medical hospitalisations</strong>&lt;sup&gt;2&lt;/sup&gt;</td>
<td>2,833</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,742</td>
<td></td>
</tr>
<tr>
<td><strong>Total potentially preventable hospitalisations</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td>651</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>644</td>
<td></td>
</tr>
<tr>
<td><strong>Chronic Obstructive Pulmonary Disease (COPD) admissions</strong>&lt;sup&gt;4&lt;/sup&gt;</td>
<td>114</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>97</td>
<td></td>
</tr>
<tr>
<td><strong>Congestive Heart Failure (CHF) admissions</strong>&lt;sup&gt;4&lt;/sup&gt;</td>
<td>58</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>73</td>
<td></td>
</tr>
</tbody>
</table>

**Rates per 1,000 select medical hospitalisations**<sup>5</sup>

<table>
<thead>
<tr>
<th>COPD&lt;sup&gt;4&lt;/sup&gt;</th>
<th>Actual</th>
<th>Standardised</th>
<th>95% CI</th>
<th>CHF&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Actual</th>
<th>Standardised</th>
<th>95% CI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Actual</strong></td>
<td>40.2</td>
<td>21.4</td>
<td>(11.3 - 33.0)</td>
<td><strong>Actual</strong></td>
<td>20.3</td>
<td>6.6</td>
<td>(4.0 - 9.8)</td>
</tr>
<tr>
<td><strong>Standardised</strong></td>
<td>35.6</td>
<td>38.8</td>
<td>(12.5 - 31.5)</td>
<td><strong>Peer group</strong></td>
<td>41.4</td>
<td>36.4</td>
<td>(36.4 - 41.3)</td>
</tr>
<tr>
<td><strong>95% CI</strong></td>
<td>41.4</td>
<td>38.8</td>
<td>(12.5 - 31.5)</td>
<td><strong>95% CI</strong></td>
<td>651</td>
<td>644</td>
<td>(644 - 644)</td>
</tr>
</tbody>
</table>

---

**Ballina District Hospital**: Patient profiles, potentially avoidable admissions for COPD and CHF  
July 2009 to June 2010

### Potentially avoidable COPD admissions<sup>1,4</sup>

**Age profile (years)**

- 45-64: 22%  
- 65-74: 34%  
- 75-84: 23%  
- 85+: 14%

**Socioeconomic status<sup>6</sup> (quintile of disadvantage)**

- Q1: most disadvantage  
- Q2: 32%  
- Q3: 26%  
- Q4: 19%  
- Q5: 15%  
- Q5: 8%

**Smoking status at admission<sup>7</sup>**

- Current smoker: 17%  
- Previous smoker: 42%  
- Non-smoker: 41%

**Aboriginal status<sup>8</sup>**

- 4%

**Rural postcode<sup>9</sup>**

- 23%

### Potentially avoidable CHF admissions<sup>1,4</sup>

**Age profile (years)**

- 45-64: 10%  
- 65-74: 14%  
- 75-84: 37%  
- 85+: 34%  
- Q1: most disadvantage  
- Q2: 28%  
- Q3: 21%  
- Q4: 16%  
- Q5: 11%

**Socioeconomic status<sup>6</sup> (quintile of disadvantage)**

- Q1: most disadvantage  
- Q2: 96%  
- Q3: 96%  
- Q4: 96%  
- Q5: 96%

**Smoking status at admission<sup>7</sup>**

- Current smoker: 5%  
- Previous smoker: 22%  
- Non-smoker: 73%

**Aboriginal status<sup>8</sup>**

- 2%

**Rural postcode<sup>9</sup>**

- 19%
Ballina District Hospital: Hospital stay profiles, potentially avoidable admissions for COPD and CHF
July 2009 to June 2010

COPD admissions\(^4\) This period (2009-10) Last period (2008-09) Peer group
% Unplanned\(^{10}\) 93% 87% 97%
% from ED\(^4\) 61% 57% 77%

CHF admissions\(^4\) This period (2009-10) Last period (2008-09) Peer group
% Unplanned\(^{10}\) 88% 90% 97%
% from ED\(^4\) 57% 63% 70%

COPD average length of stay in days\(^4\)

<table>
<thead>
<tr>
<th>Length of stay profiles</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1 days</td>
<td>5.2</td>
</tr>
<tr>
<td>2-5 days</td>
<td>4.9</td>
</tr>
<tr>
<td>6-10 days</td>
<td>5.8</td>
</tr>
</tbody>
</table>

CHF average length of stay in days\(^4\)

<table>
<thead>
<tr>
<th>Length of stay profiles</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1 days</td>
<td>6.4</td>
</tr>
<tr>
<td>2-5 days</td>
<td>8.2</td>
</tr>
<tr>
<td>6-10 days</td>
<td>6.7</td>
</tr>
</tbody>
</table>

Ballina District Hospital: Total bed days, potentially avoidable admissions for COPD and CHF
July 2005 to June 2010 (monthly)

<table>
<thead>
<tr>
<th>Total bed days</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005-06</td>
</tr>
<tr>
<td>2006-07</td>
</tr>
<tr>
<td>2007-08</td>
</tr>
<tr>
<td>2008-09</td>
</tr>
<tr>
<td>2009-10</td>
</tr>
</tbody>
</table>

COPD\(^4\) 316 346 441 458 597
CHF\(^4\) 288 456 392 537 365

\(^{(*)}\) Suppressed: relative standard error ≥ 40%.
\(^{(*)}\) Interpret with caution: 30% ≤ relative standard error < 40%.

1. A hospitalisation corresponds to one ‘episode of care’. A single patient can have multiple hospitalisations in the time period.
2. Excludes hospitalisations for renal dialysis, obstetrics, psychiatry, and all surgery.
4. For criteria used for COPD / CHF admissions, see Technical Supplement at www.bhi.nsw.gov.au
5. Rates are directly standardised to the NSW admitted patient population 2009-10 on the basis of age, sex, and socioeconomic status.
6. Index of Relative Social Disadvantage (IRSD), as defined by the Australian Bureau of Statistics.
7. Smoking status as recorded on admission: termed current if patient smoked tobacco within last month; previous if patient smoked tobacco in the past but excluding last month.
8. We use the term Aboriginal, rather than Aboriginal and Torres Strait Islander in line with NSW Health usage, which recognises that Aboriginal people are the original inhabitants of NSW.
9. Postcode of usual residence at time of admission classified as outer regional or remote.
10. Admissions with emergency status of ‘non-emergency / planned’.

Emergency Department

Technical Supplement
www.bhi.nsw.gov.au

PERFORMANCE PROFILES: Chronic disease care, admissions for COPD and CHF July 2009 to June 2010 www.bhi.nsw.gov.au