Royal North Shore Hospital: Activity profiles, potentially avoidable admissions for COPD and CHF
July 2009 to June 2010

Total hospitalisations

Select medical hospitalisations

Total potentially preventable hospitalisations

Chronic Obstructive Pulmonary Disease (COPD) admissions

Congestive Heart Failure (CHF) admissions

Rates per 1,000 select medical hospitalisations

COPD

This period (2009-10) | Last period (2008-09) | Peer group (2009-10) | CHF

Actual | 18.0 | 16.1 | 27.1 | Actual | 23.4 | 26.1 | 23.4

Standardised | 9.1 | 7.9 | 28.3 | Standardised | 15.7 | 11.5 | 24.4

95% CI | (5.0 - 13.6) | (4.6 - 11.6) | (27.4 - 29.2) | 95% CI | (6.9 - 25.4) | (5.7 - 17.8) | (23.6 - 25.3)

Royal North Shore Hospital: Patient profiles, potentially avoidable admissions for COPD and CHF
July 2009 to June 2010

Potentially avoidable COPD admissions

Age profile (years)

- 45-64: 22% New South Wales: 17%, Royal North Shore Hospital: 14%
- 65-74: 29% New South Wales: 42%, Royal North Shore Hospital: 41%
- 75-84: 35% New South Wales: 19%, Royal North Shore Hospital: 15%
- 85+: 14% New South Wales: 8%, Royal North Shore Hospital: 8%

Socioeconomic status (quintile of disadvantage)

- Q1: 32% New South Wales: 28%, Royal North Shore Hospital: 22%
- Q2: 26% New South Wales: 24%, Royal North Shore Hospital: 21%
- Q3: 19% New South Wales: 21%, Royal North Shore Hospital: 16%
- Q4: 15% New South Wales: 11%, Royal North Shore Hospital: 14%
- Q5: 8% New South Wales: 7%, Royal North Shore Hospital: 3%

Smoking status at admission

- Current smoker: 17% New South Wales: 6%, Royal North Shore Hospital: 5%
- Previous smoker: 42% New South Wales: 73%, Royal North Shore Hospital: 22%
- Non-smoker: 41% New South Wales: 86%, Royal North Shore Hospital: 14%

Aboriginal status

- 4% New South Wales: 2%, Royal North Shore Hospital: 2%
- Rural postcode

- 23% New South Wales: 19%, Royal North Shore Hospital: 19%
Royal North Shore Hospital: Hospital stay profiles, potentially avoidable admissions for COPD and CHF
July 2009 to June 2010

COPD admissions ¹ This period (2009-10) | Last period (2008-09) | Peer group
% Unplanned ¹ | 98% | 98% | 97%
% from ED ² | 91% | 94% | 87%

CHF admissions ³ This period (2009-10) | Last period (2008-09) | Peer group
% Unplanned ¹ | 100% | 100% | 98%
% from ED ² | 90% | 93% | 86%

COPD average length of stay in days ⁴ Actual | 7.2 | 6.5 | 6.1
CHF average length of stay in days ⁴ Actual | 7.9 | 7.5 | 7.1

Length of stay profiles

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

COPD ⁴ | CHF ⁵
Total bed days
2005-06 | 1,148 | 2,230
2006-07 | 1,275 | 2,371
2007-08 | 1,232 | 2,457
2008-09 | 1,226 | 2,333
2009-10 | 1,621 | 2,271

¹ Suppressed: relative standard error ≥ 40%.
² Interpret with caution: 30% ≤ relative standard error < 40%.
³ A hospitalisation corresponds to one ‘episode of care’. A single patient can have multiple hospitalisations in the same period.
⁴ Excludes hospitalisations for renal dialysis, obstetrics, psychiatry, and all surgery.
⁵ Potentially preventable hospitalisations as defined in: The health of the people of NSW – Report of the Chief Health Officer 2010.
⁶ For criteria used for COPD / CHF admissions, see Technical Supplement at www.bhi.nsw.gov.au
⁷ Rates are directly standardised to the NSW admitted patient population 2009-10 on the basis of age, sex, and socioeconomic status.
⁸ Index of Relative Social Disadvantage (IRSD), as defined by the Australian Bureau of Statistics.
⁹ 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.
¹⁰ 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.
¹¹ Postcode of usual residence at time of admission classified as outer regional or remote.
¹² Admissions with emergency status of ‘non-emergency / planned’.
¹³ Emergency Department
¹⁴ Note: Only records with valid and non-missing data are included in each analysis.
¹⁵ Note: Length of stay and total bed days calculated on ‘acute’ episodes only (comprising 98.7% COPD and 97.4% CHF PAAs).
¹⁶ Note: Additional detail and definitions can be found in the Bureau’s Technical Supplement at www.bhi.nsw.gov.au
¹⁷ Source: Admitted Patient Data Collection, Health Information Exchange, NSW Health. Data extracted on 28 February 2011.