Key statistics from the Case Mix Programme Database

Based on 131,479 admissions to 205 NHS adult, general critical care units, 1 April 2011 to 31 March 2012

Demographics

<p>| | |</p>
<table>
<thead>
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<tbody>
<tr>
<td>Number of admissions</td>
<td>131,479</td>
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<tr>
<td>Number of patients</td>
<td>121,422</td>
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<tr>
<td>Age (years), mean (SD)</td>
<td>61.0 (18.2)</td>
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<tr>
<td>Sex (male), n (%)</td>
<td>72,944 (55.5)</td>
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<tr>
<td>Number of severe conditions in past medical history*, n (%)</td>
<td>107,822 (82.6), 15,951 (12.2), 5,324 (4.1), 1,479 (1.1)</td>
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<tr>
<td>Surgical status, n (%)</td>
<td>Elective/scheduled 31,412 (23.9), Emergency/urgent 23,498 (17.9), Non-surgical 76,564 (58.2)</td>
</tr>
</tbody>
</table>

* No evidence to assess past medical history for 902 (0.7%) admissions

ICNARC physiology score, mean (SD) 16.9 (9.3)
ICNARC (2011) model predicted risk of acute hospital mortality* (%), median (IQR) 13.1 (3.7, 37.3)

* Excluding 9 (<0.01%) admissions with insufficient data

Distribution of ICNARC physiology score and ICNARC (2011) model predicted risk of acute hospital mortality

Infection

On admission
- MRSA, n (%) 2,646 (2.0)
- VRE, n (%) 313 (0.2)
- C.diff, n (%) 641 (0.5)

Unit-acquired*
- MRSA, n (%) 481 (0.4)
- VRE, n (%) 283 (0.2)
- C.diff, n (%) 340 (0.3)

Unit-acquired infections present in blood, n (%) 1,061 (0.8)

* Excluding 9 (<0.01%) admissions with insufficient data

* Identified in critical care unit for admissions staying 48 hours or more and excluding those with same infection identified in the first 48 hours.
Overall outcome flow
The overall outcome flow shows the ultimate outcome for all acute hospital admissions with a critical care unit stay.

Total number of acute hospital admissions*
125,760

Status at ultimate discharge from acute hospital

- **Dead** 27,570 (21.9%)
- **Alive** 97,523 (77.5%)
- **Missing** 667 (0.5%)

Staged outcome flow
The staged outcome flow shows the outcome at different stages from initial critical care unit discharge to ultimate discharge from acute hospital.

Total number of acute hospital admissions*
125,760

Status at discharge from initial critical care unit**

- **Dead** 18,776 (14.9%)
- **Alive** 106,984 (85.1%)
- **Missing** 0 (0.0%)

Status at ultimate discharge from critical care***

- **Dead** 791 (0.7%)
- **Alive** 105,618 (98.7%)
- **Missing**** 575 (0.5%)

Status at ultimate discharge from acute hospital

- **Dead** 7,768 (7.4%)
- **Alive** 97,523 (92.3%)
- **Missing** 327 (0.3%)

* Excluding: 5,719 (4.3%) readmissions to the critical care unit during the same acute hospital stay
** Where more than one critical care unit admission exists for a patient during the same hospital stay, then the outcome for the first admission has been used
*** For all patients discharged alive from the initial critical care unit, including those not transferred to another critical care unit
**** Including: 235 admissions missing ultimate discharge from critical care but known to be dead at ultimate discharge from acute hospital

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### Crude mortality

| All admissions | 19,630 (14.9) |
| CMP unit mortality*, n (%) |  |
| Elective/scheduled | 518 (1.6) |
| Emergency/urgent | 2,621 (11.2) |
| Non-surgical | 16,489 (21.5) |
| Ultimate acute hospital mortality**, n (%) |  |
| All admissions | 27,570 (22.0) |
| Elective/scheduled | 1,308 (4.2) |
| Emergency/urgent | 4,141 (18.5) |
| Non-surgical | 22,119 (30.8) |

* Mortality at discharge from the CMP unit. 0 (0%) admissions with missing data
** Excluding: 5,719 (4.3%) readmissions within the same acute hospital stay; 667 (0.5%) admissions with missing data

### Length of stay (LOS)

| All admissions | Median (IQR) | Mean (SD) |
| CMP unit LOS* (days) |  |
| All admissions | 2.1 (1.0, 5.0) | 4.7 (8.0) |
| Unit survivors | 2.1 (1.0, 4.9) | 4.6 (7.7) |
| Unit non-survivors | 2.1 (0.8, 5.9) | 5.3 (9.5) |
| Total acute hospital LOS** (days) |  |
| All admissions | 12 (6, 26) | 21.8 (31.1) |
| Acute hospital survivors | 13 (7, 27) | 23.3 (31.5) |
| Acute hospital non-survivors | 7 (2, 19) | 16.6 (29.0) |

* Does not include continuous critical care pre-/post-admission to the CMP unit. Excluding: 5 (<0.01%) admissions with missing data
** Excluding: 5,719 (4.3%) readmissions within the same acute hospital stay; 1,204 (1.0%) admissions with missing data

### Case Mix Programme (CMP) Annual Quality Report

ICNARC publicly reports analyses on risk-adjusted acute hospital mortality and four potential quality indicators.

Ahead of public disclosure, ICNARC requests formal local consent from the:
- Chief Executive of the Trust; and the
- Clinical Director of each participating unit.

The CMP Annual Quality Report currently provides insight into the quality of adult, general critical care both overall, and at the level of:
- Strategic Health Authority;
- Critical Care Network;
- Trust (or equivalent);
- hospital; and
- individual critical care unit.

Results are available to view on ICNARC’s online reporting site at [https://onlinereports.icnarc.org](https://onlinereports.icnarc.org)
ICNARC physiology score and ICNARC (2011) model

Mortality

Length of stay

** Excluding: 24,532 (4.6%) readmissions within the same acute hospital stay

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