

Explanatory Notes

All cases (locked and unlocked) admitted to hospital between 01 May 2025 and 31 July 2025 have been included. Only cases where the necessary data are available have been included in the denominator for each individual analysis.

At hospital level, runcharts are compared to hospitals within the same ICB.

The results for process measures for which fewer than 10 cases have available data will not be reported. Instead the value will be marked as 'Insufficient data'.

Mortality

This section defines three key mortality measures for the monthly report. In all cases we include only patients whose surgery-to-discharge interval (Q4.1 - Q7.8) is ≤ 30 days, and we exclude any with missing discharge status (Q7.7) or missing dates (Q4.1/Q7.8).

1. 30-Day Observed (Crude) Mortality Rate

Let

- d = number of patients who **died** within 30 days of surgery,
- N = total number of patients with known discharge status (alive, died, or still in hospital at 60 days).

Then the crude 30-day mortality rate (as a percentage) is

$$\text{Crude 30-day Mortality Rate} = \frac{d}{N} \times 100.$$

2. Standardised Mortality Ratio (SMR)

Let

- $O = d$ = observed deaths within 30 days,
- $E = \sum_i \text{RiskScore}_i$ = sum of individual parsimonious NELA mortality risk scores for all N patients.

The SMR is

$$\text{SMR} = \frac{O}{E}.$$

3. Risk-Adjusted Mortality

Combines the SMR with the **National** 30-day mortality rate for the examined three month period:

$$\text{Risk-Adjusted Mortality} = \text{SMR} \times (\text{National 30-day mortality}) \times 100.$$

For better insight to how these standards have been structured, please refer to the **NELA standards document**.

Quarterly mean performance



Overall performance



Risk-adjusted mortality

Rating boundaries are lower and upper 99.8% and 95% confidence limits



Non-risk-adjusted measures

Rating boundaries are lower and upper national quartiles

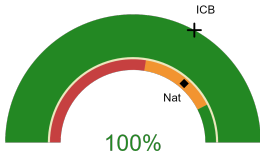


Chesterfield Royal Hospital

2025-26 Reporting Period 4: 01 May 2025 - 31 July 2025

These plots represent patients having an emergency laparotomy during Year 2025-26 Reporting Period 4 of NELA data collection. This version will be made publicly available via the NELA website. Feedback from participating hospitals is welcome.

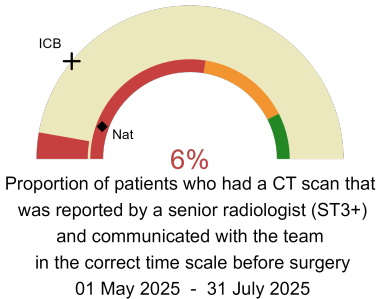
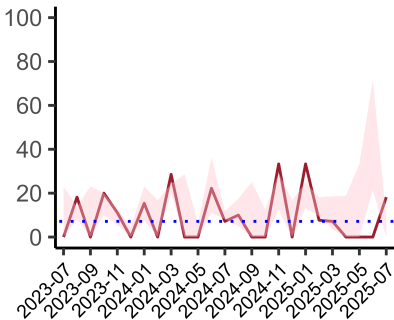
NELA process and outcome measures



Estimated case ascertainment
01 May 2025 - 31 July 2025

**Estimated case ascertainment
(Based on HES/PEDW Data)**

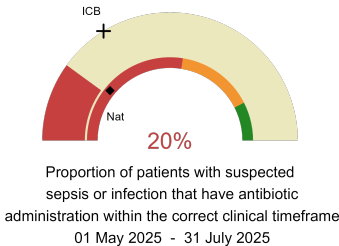
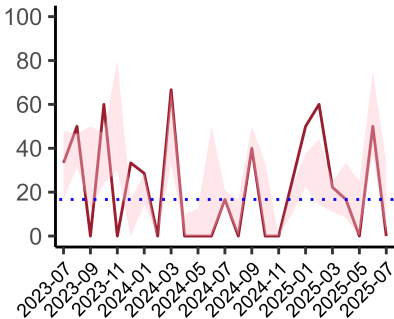
Expected number of cases 36
Total cases entered 46
Cases locked 40
Cases unlocked 6



Proportion of patients who had a CT scan that was reported by a senior radiologist (ST3+) and communicated with the team in the correct time scale before surgery
01 May 2025 - 31 July 2025

CT reported by a senior radiologist (ST3+) and communicated with the team in the correct time scale before surgery.

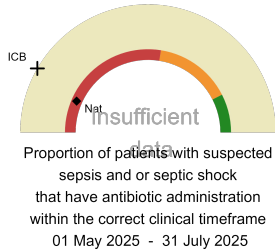
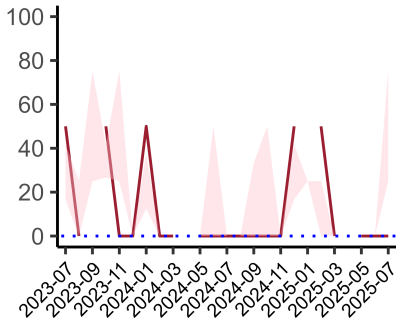
National mean 11%
ICB mean 22%
Number of patients included 36
Data completeness 100%



Proportion of patients with suspected sepsis or infection that have antibiotic administration within the correct clinical timeframe
01 May 2025 - 31 July 2025

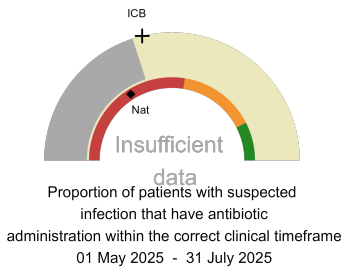
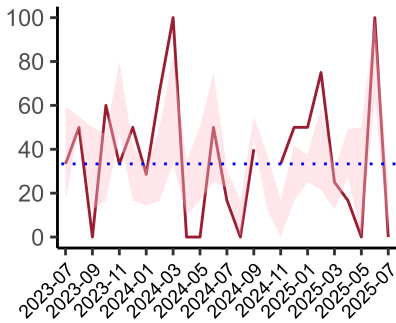
Combined Infection management standard - antibiotic administration within the correct clinical timeframe

National mean 22%
ICB mean 33%
Number of patients included 10
Data completeness 77%



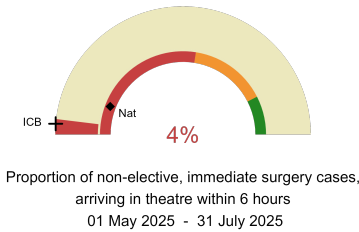
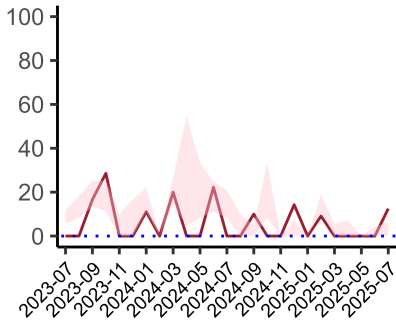
Sepsis/septic shock - antibiotic administration within the correct clinical timeframe

National mean 13%
ICB mean 17%
Number of patients included 5
Data completeness 62%



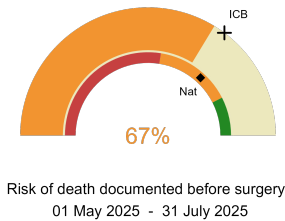
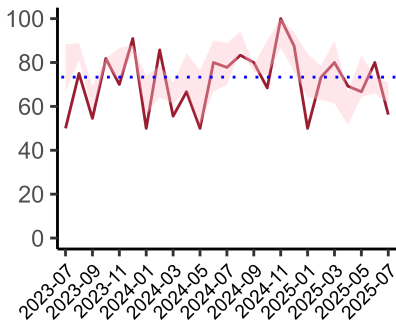
Infection - antibiotic administration within the correct clinical timeframe

National mean 32%
ICB mean 42%
Number of patients included 5
Data completeness 38%



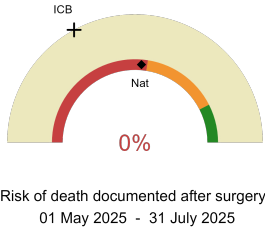
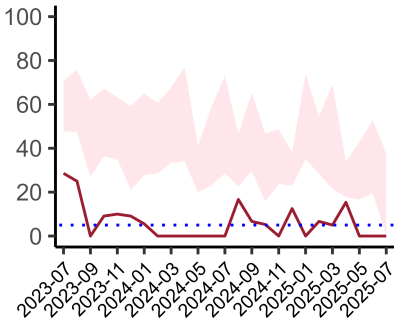
Non-elective, immediate surgery cases, arriving in theatre within 6 hours.

National mean 12%
ICB mean 3%
Number of patients included 26
Data completeness 100%



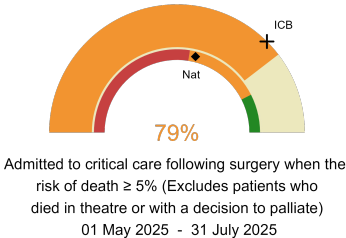
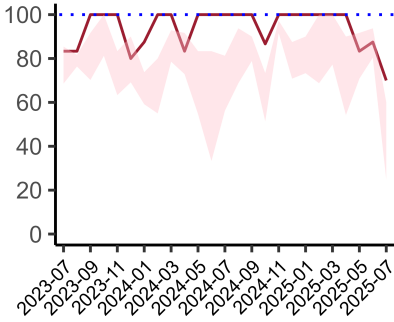
Risk documented before surgery

National mean 74%
ICB mean 70%
Number of patients included 46
Data completeness 100%



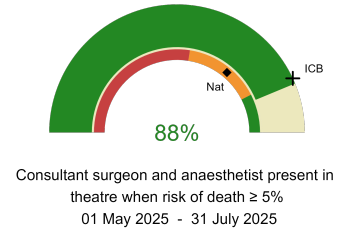
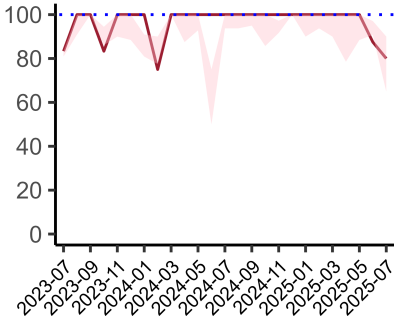
Risk documented after surgery

National mean 53%
ICB mean 34%
Number of patients included 46
Data completeness 100%



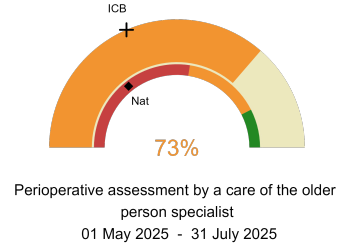
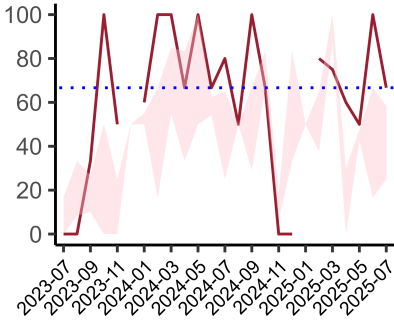
Admitted to Critical Care (risk of death \geq 5%)

National mean 58%
ICB mean 75%
Number of patients included 24
Data completeness 100%



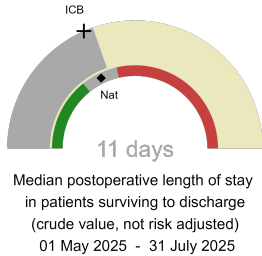
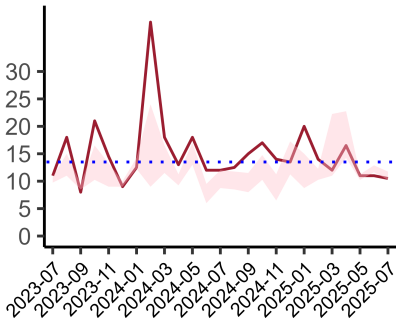
Consultant Anaesthetist & Consultant Surgeon in theatre (risk of death \geq 5%)

National mean 72%
ICB mean 86%
Number of patients included 24
Data completeness 77%



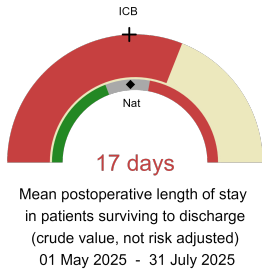
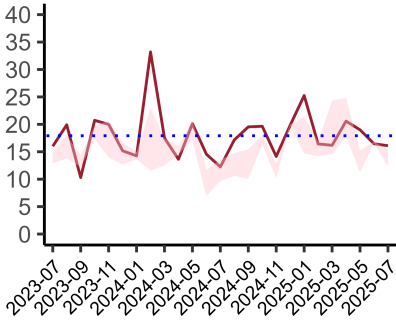
Perioperative Assessment by a member of the geriatrician-led multidisciplinary team for patient aged 65 or over and frail (CFS \geq 5) or 80+

National mean 29%
ICB mean 37%
Number of patients included 11
Data completeness 85%



Median postoperative length of stay

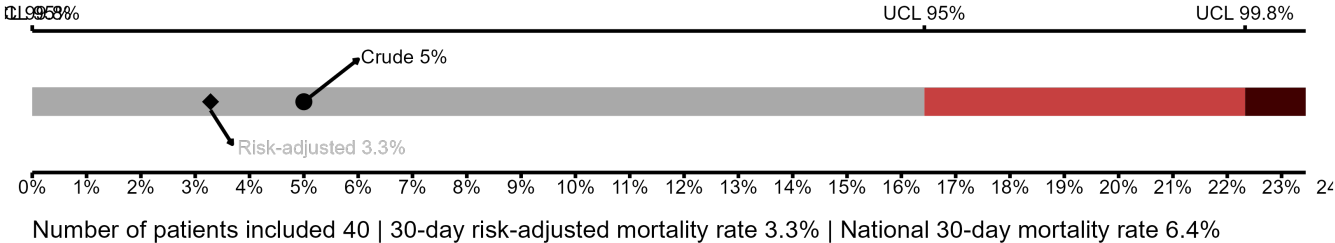
National median 10 days
ICB median 10 days
Number of patients included 38
Data completeness 100%



Mean postoperative length of stay

National mean 14 days
ICB mean 14 days
Number of patients included 38
Data completeness 100%

Risk-Adjusted Mortality



Integrated Care Board

Chesterfield Royal Hospital is part of the NHS Derby And Derbyshire Integrated Care Board ICB. This comprises Queen’s Hospital - Burton, Chesterfield Royal Hospital, Royal Derby Hospital.