

Explanatory Notes

All cases (locked and unlocked) admitted to hospital between 01 August 2025 and 31 October 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

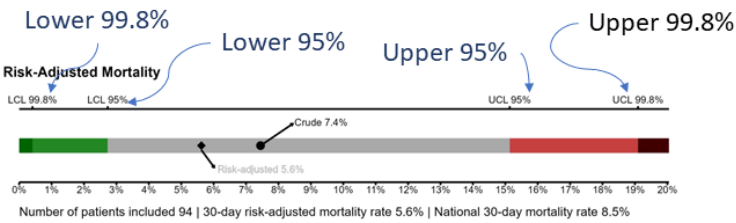


Overall performance



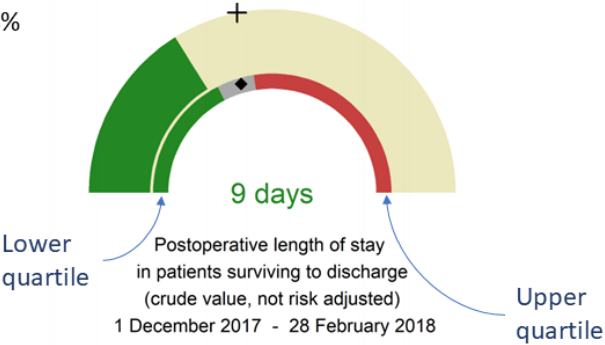
Risk-adjusted mortality

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



Non-risk-adjusted measures

Rating boundaries are lower and upper national quartiles

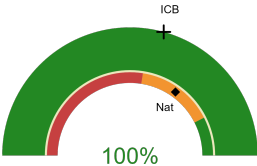


Queen Elizabeth Hospital Birmingham

2025-26 Reporting Period 7: 01 August 2025 - 31 October 2025

These plots represent patients having an emergency laparotomy during Year 2025-26 Reporting Period 7 of NELA data collection. This version will be made publicly available via the NELA website. Feedback from participating hospitals is welcome.

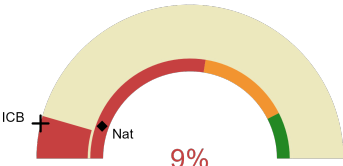
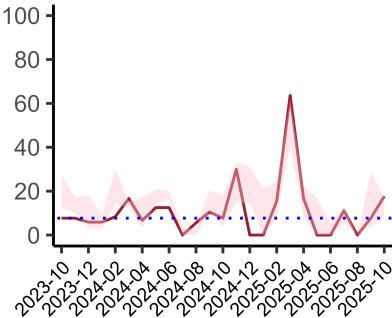
NELA process and outcome measures



Estimated case ascertainment
01 August 2025 - 31 October 2025

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

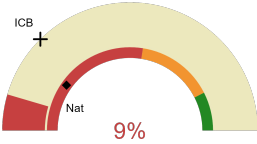
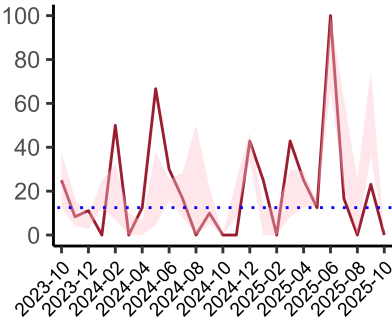
Expected number of cases 64
Total cases entered 74
Cases locked 63
Cases unlocked 11



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 August 2025 - 31 October 2025

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

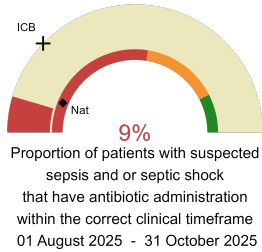
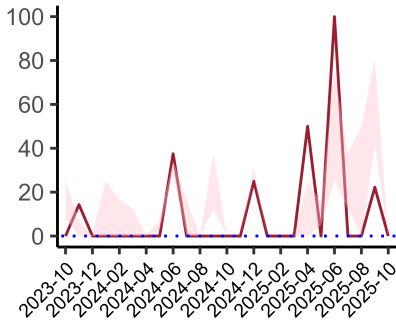
National mean 11%
ICB mean 7%
Number of patients included 56
Data completeness 99%



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

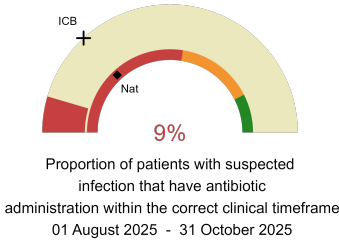
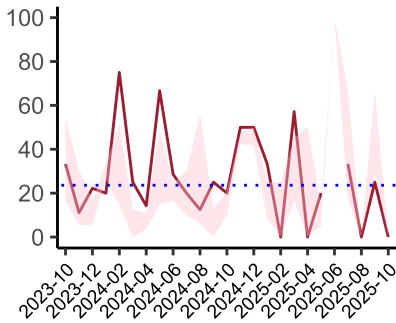
Combined Infection management standard - antibiotic administration within the correct clinical timeframe

National mean 20%
ICB mean 25%
Number of patients included 33
Data completeness 89%



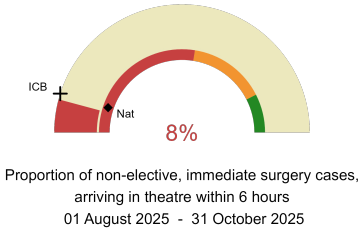
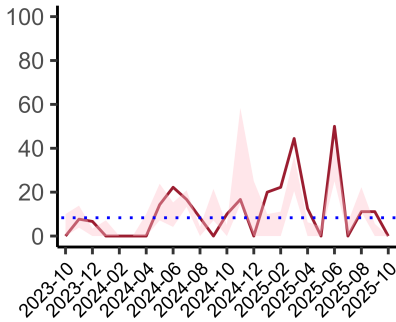
Sepsis/septic shock - antibiotic administration within the correct clinical timeframe

National mean 12%
ICB mean 24%
Number of patients included 22
Data completeness 85%



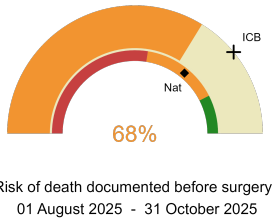
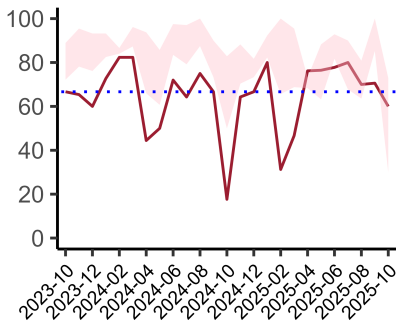
Infection - antibiotic administration within the correct clinical timeframe

National mean 26%
ICB mean 26%
Number of patients included 11
Data completeness 30%



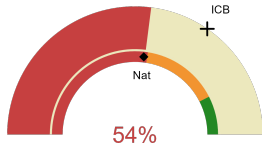
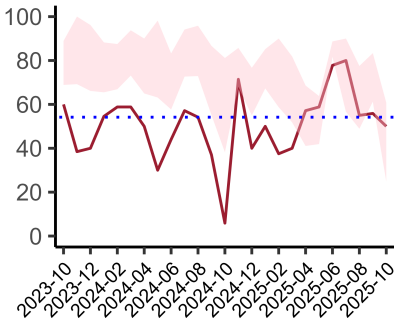
Non-elective, immediate surgery cases, arriving in theatre within 6 hours.

National mean 10%
ICB mean 10%
Number of patients included 36
Data completeness 100%



Risk documented before surgery

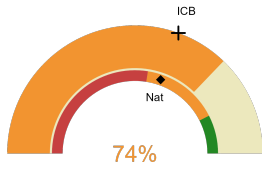
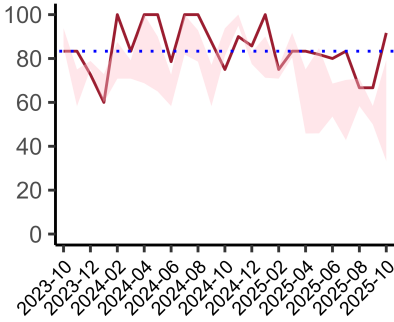
National mean 72%
ICB mean 78%
Number of patients included 74
Data completeness 100%



Risk of death documented after surgery
01 August 2025 - 31 October 2025

Risk documented after surgery

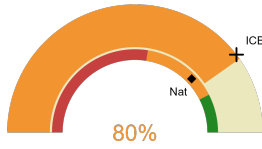
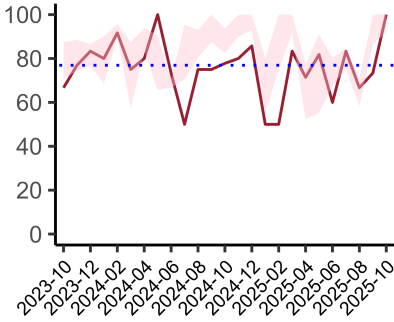
National mean 54%
ICB mean 69%
Number of patients included 74
Data completeness 100%



Admitted to critical care following surgery when the risk of death ≥ 5% (Excludes patients who died in theatre or with a decision to palliate)
01 August 2025 - 31 October 2025

Admitted to Critical Care (risk of death ≥ 5%)

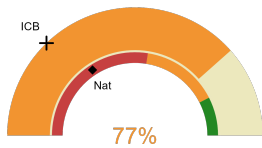
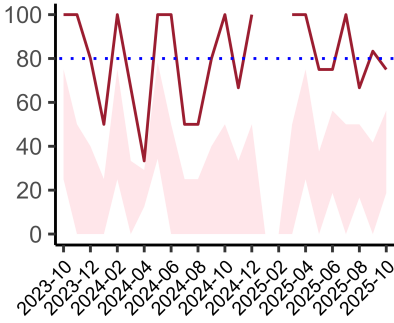
National mean 61%
ICB mean 61%
Number of patients included 39
Data completeness 100%



Consultant surgeon and anaesthetist present in theatre when risk of death ≥ 5%
01 August 2025 - 31 October 2025

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

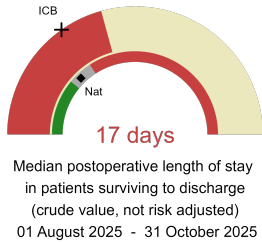
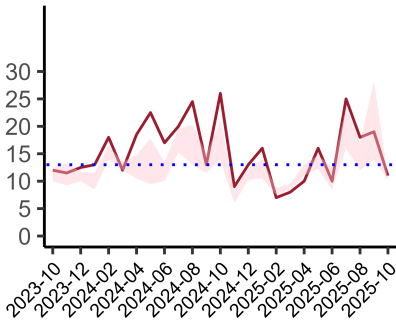
National mean 76%
ICB mean 79%
Number of patients included 41
Data completeness 67%



Perioperative assessment by a care of the older person specialist
01 August 2025 - 31 October 2025

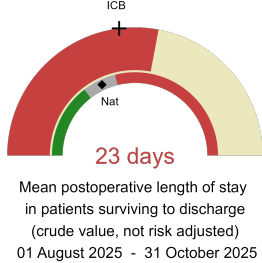
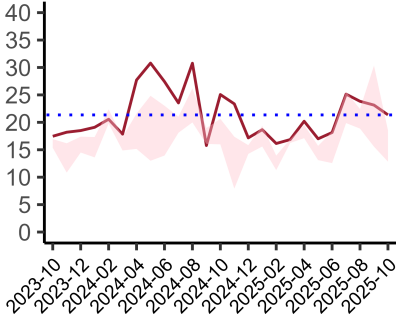
Perioperative Assessment by a member of the geriatrician-led multidisciplinary team for patient aged 65 or over and frail (CFS ≥ 5) or 80+

National mean 32%
ICB mean 26%
Number of patients included 13
Data completeness 76%



Median postoperative length of stay

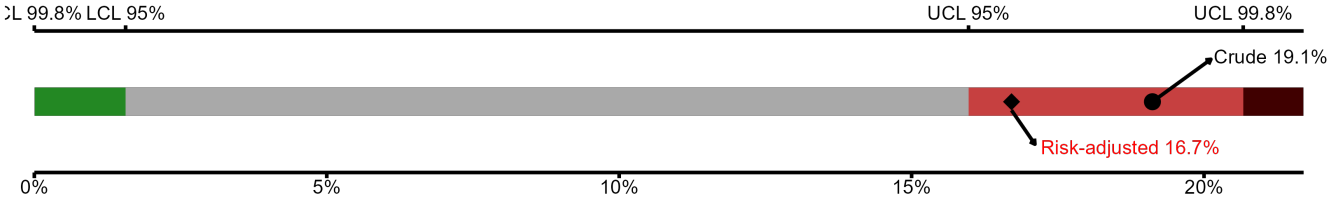
National median 10 days
ICB median 12 days
Number of patients included 51
Data completeness 98%



Mean postoperative length of stay

National mean 15 days
ICB mean 19 days
Number of patients included 51
Data completeness 98%

Risk-Adjusted Mortality



Number of patients included 68 | 30-day risk-adjusted mortality rate 16.7% | National 30-day mortality rate 8.2%

Integrated Care Board

Queen Elizabeth Hospital Birmingham is part of the NHS Birmingham And Solihull Integrated Care Board ICB. This comprises Birmingham Heartlands Hospital, Good Hope Hospital, Queen Elizabeth Hospital Birmingham.