

Explanatory Notes

All cases (locked and unlocked) admitted to hospital between 01 April 2026 and 30 June 2026 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

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

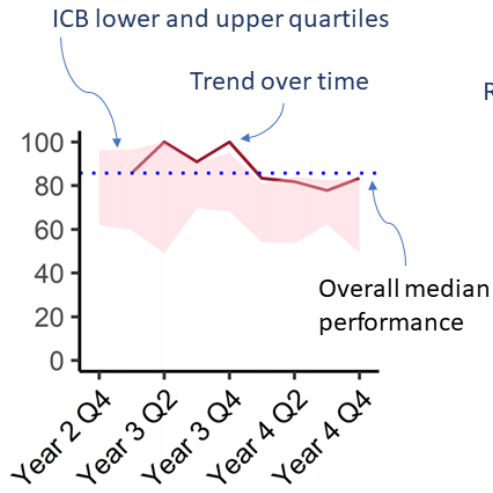
3. Risk-Adjusted Mortality

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

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

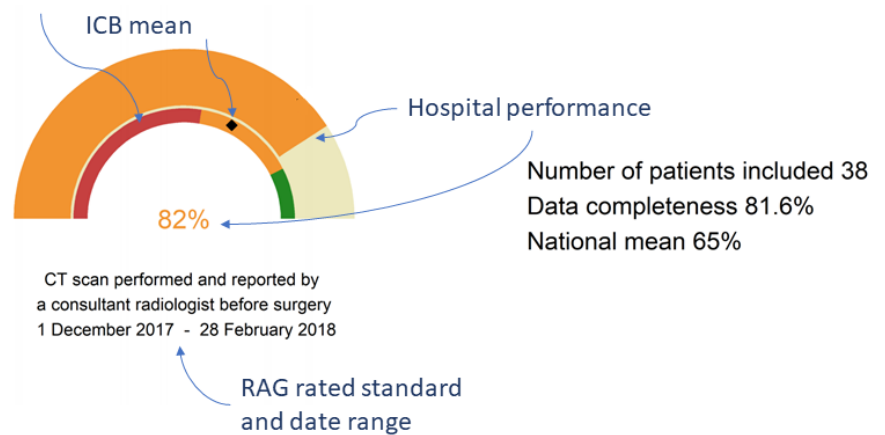
For better insight to how these standards have been structured, please refer to the **NELA standards document**.

Quarterly mean performance



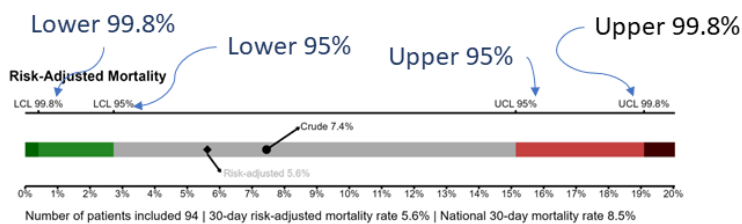
Overall performance

RAG rating boundaries



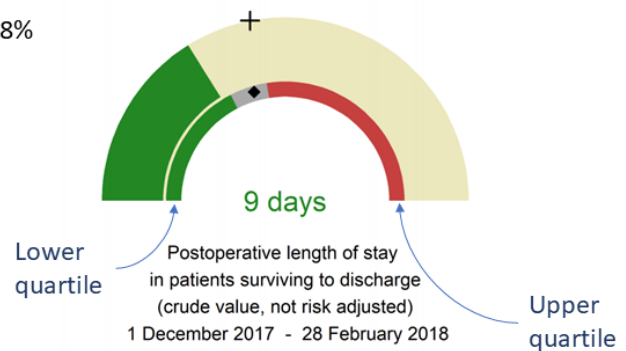
Risk-adjusted mortality

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



Non-risk-adjusted measures

Rating boundaries are lower and upper national quartiles

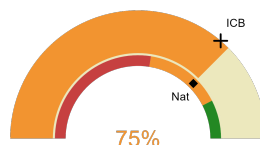


Northern General Hospital

2026-27 Reporting Period 3: 01 April 2026 - 30 June 2026

These plots represent patients having an emergency laparotomy during Year 2026-27 Reporting Period 3 of NELA data collection. This version will be made publicly available via the NELA website. Feedback from participating hospitals is welcome.

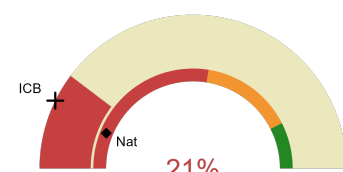
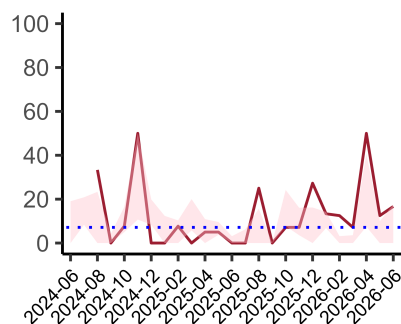
NELA process and outcome measures



Estimated case ascertainment
01 April 2026 - 30 June 2026

Estimated case ascertainment (Based on HES/PEDW Data)

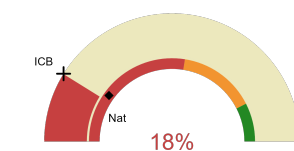
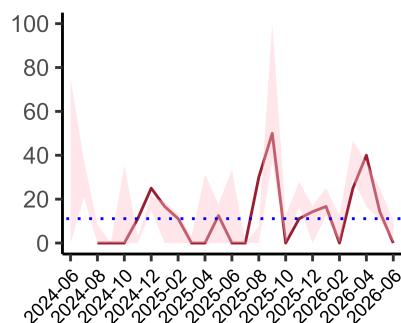
Expected number of cases 64
Total cases entered 48
Cases locked 20
Cases unlocked 28



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 April 2026 - 30 June 2026

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

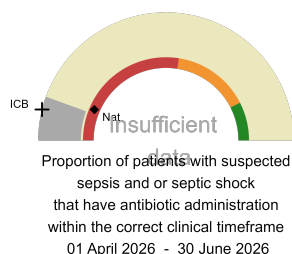
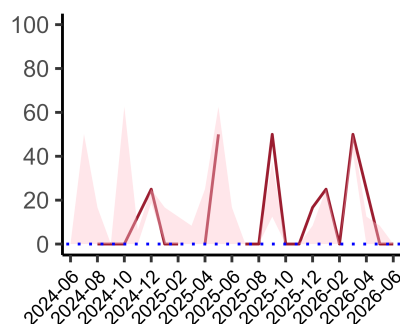
National mean 12%
ICB mean 15%
Number of patients included 34
Data completeness 98%



Proportion of patients with suspected
sepsis or infection that have antibiotic
administration within the correct clinical
timeframe
01 April 2026 - 30 June 2026

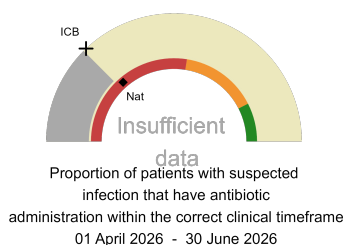
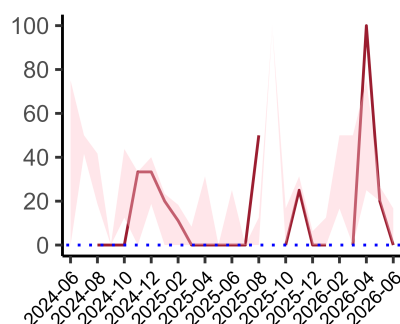
Combined Infection management standard - antibiotic administration within the correct clinical timeframe

National mean 20%
ICB mean 18%
Number of patients included 17
Data completeness 100%



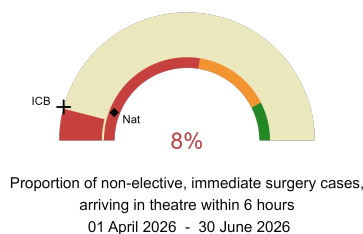
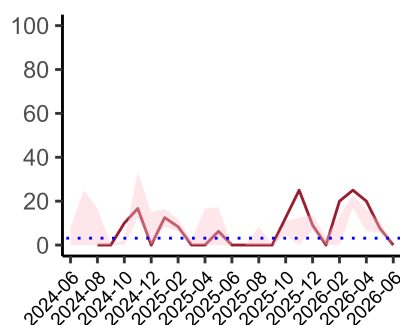
Sepsis/septic shock - antibiotic administration within the correct clinical timeframe

National mean 13%
ICB mean 8%
Number of patients included 9
Data completeness 100%



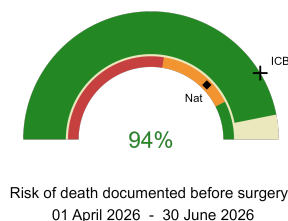
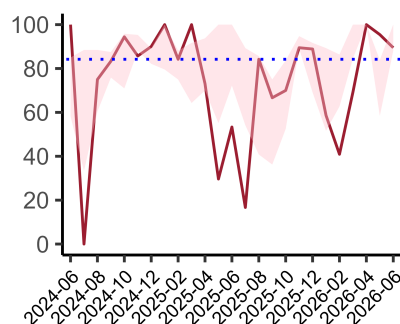
Infection - antibiotic administration within the correct clinical timeframe

National mean 27%
ICB mean 26%
Number of patients included 8
Data completeness 47%



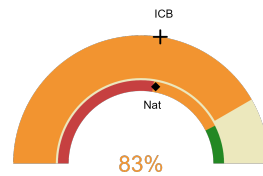
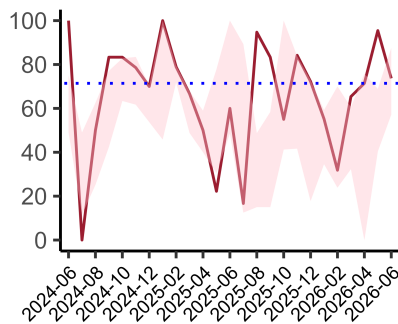
Non-elective, immediate surgery cases, arriving in theatre within 6 hours.

National mean 12%
ICB mean 8%
Number of patients included 25
Data completeness 100%



Risk documented before surgery

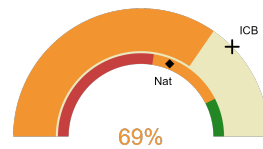
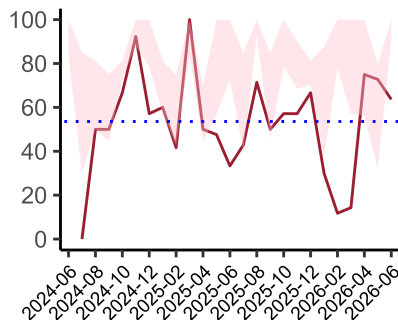
National mean 75%
ICB mean 83%
Number of patients included 48
Data completeness 100%



Risk of death documented after surgery
01 April 2026 - 30 June 2026

Risk documented after surgery

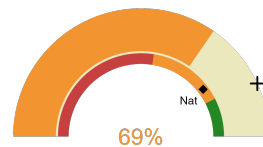
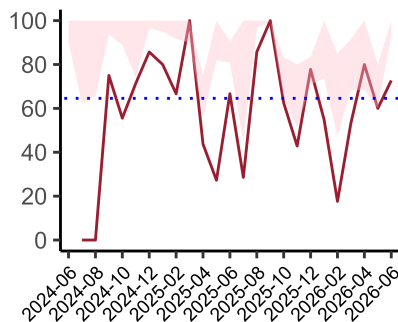
National mean 56%
ICB mean 55%
Number of patients included 48
Data completeness 100%



Admitted to critical care following surgery when the
risk of death $\geq 5\%$ (Excludes patients who
died in theatre or with a decision to palliate)
01 April 2026 - 30 June 2026

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

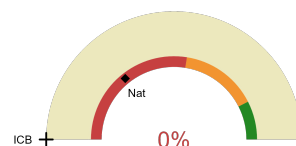
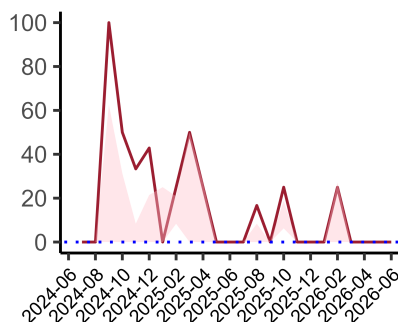
National mean 62%
ICB mean 75%
Number of patients included 26
Data completeness 100%



Consultant surgeon and anaesthetist present in
theatre when risk of death $\geq 5\%$
01 April 2026 - 30 June 2026

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

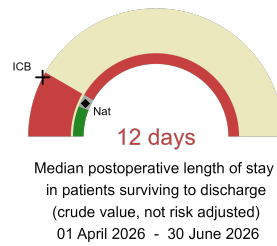
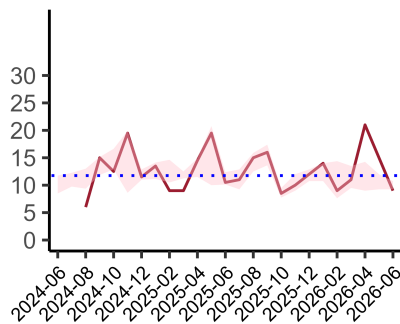
National mean 79%
ICB mean 86%
Number of patients included 26
Data completeness 76%



Perioperative assessment by a care of the older
person specialist
01 April 2026 - 30 June 2026

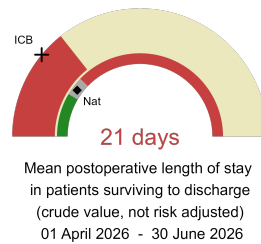
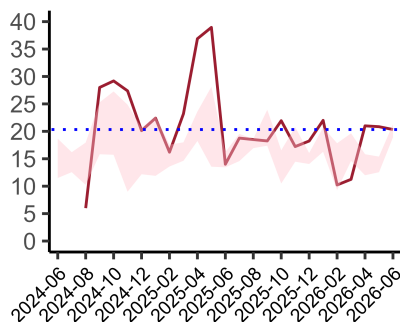
Perioperative Assessment by a member of the geriatrician- led multidisciplinary team for patient aged 65 or over and frail (CFS ≥ 5) or 80+

National mean 28%
ICB mean 0%
Number of patients included 11
Data completeness 100%



Median postoperative length of stay

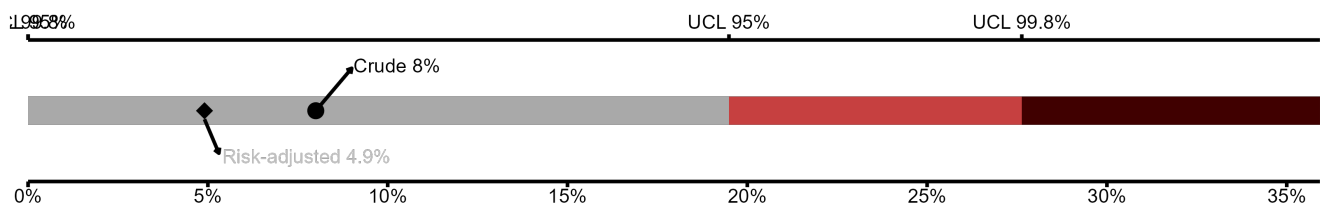
National median 10 days
ICB median 11 days
Number of patients included 23
Data completeness 77%



Mean postoperative length of stay

National mean 15 days
ICB mean 16 days
Number of patients included 23
Data completeness 77%

Risk-Adjusted Mortality



Number of patients included 25 | 30-day risk-adjusted mortality rate 4.9% | National 30-day mortality rate 6.3%

Integrated Care Board

Northern General Hospital is part of the NHS South Yorkshire Integrated Care Board ICB. This comprises Northern General Hospital, Barnsley Hospital, Rotherham Hospital, Doncaster Royal Infirmary.