

From ESPAUR to GLASS: A Three-Layer Comparative Analysis of AMR Surveillance and Stewardship Across England, 55 LMIC Member States, and Three High-Burden Countries (2019–2024)

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UNDERSTAND theme

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BACKGROUND · AIM · METHODS

Why three layers?

AMR demands surveillance at every scale. **UKHSA ESPAUR** is England's national dashboard; **WHO GLASS** the global comparator; **three-countries** evidence syntheses expose the LMIC policy-to-practice gap. Few analyses link the three to inform the UK AMR NAP 2024–2029 “global partner” theme.

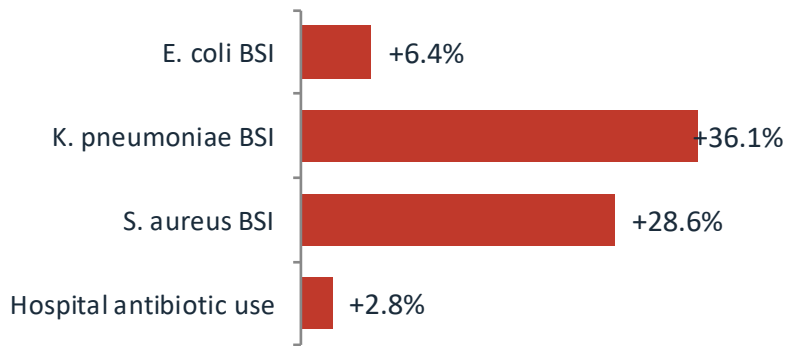
AIM Compare England, 55 South Centre states, and Bangladesh, Nigeria & India to identify shared threats, capacity gaps and priorities for UKHSA-led partnership.

Methods — three nested analyses

- 1 ESPAUR 2024–25 secondary analysis: resistant BSI rates, DID, AWaRe mix, NAP targets.
- 2 WHO GLASS enrolment (Nov 2024): 55 South Centre states, by region & pandemic timing.
- 3 Three-country case study — PRISMA 2020 reviews of AMS in LMICs (2015–2025): 38 studies · 38,903 participants.

LAYER 1 — ENGLAND · ESPAUR 2019–2024

ESPAUR tracking in action — % change vs 2019 baseline



NAP 2019–2024 — progress & next steps

2 / 4
targets met

✓

 Access antibiotics ≥60% — achieved 63.2%

→

 Next: bring total use to ≤16.92 DID (now 17.53)

→

 Next: return hospital use to baseline (8/9 regions, +2.8%)

LAYER 2 — GLOBAL · WHO GLASS, 55 STATES

60%

already enrolled in AMR surveillance

38%

AMU surveillance — key growth area

–77%

2020–21 dip — momentum to rebuild

LAYER 3 — LMICs · BANGLADESH · NIGERIA · INDIA

64–78.7%

Watch use — scope to shift to Access

31–40%

culture-guided — room to grow diagnostics

≥70%

call for training — clear investment target

Untapped

audit & feedback — a quick-win tool

IMPACT — three priorities for UKHSA international partnership

- 1 ESPAUR-style standardised dashboards adaptable for LMICs
- 2 Close the AMR–AMU surveillance gap exposed by the pandemic
- 3 Translate UK postgraduate research into LMIC supervision pipelines

PARTNERSHIP & EQUITY UH pipeline — MPharm: ESPAUR England; Master of Public Health: Bangladesh–Nigeria–India; supervisor: 55-state GLASS (South Centre RP 227).

POLICY REACH Extends the ESRC AMR Parliamentary Roundtable (House of Commons 2026) — advancing UKHSA “good global partner” priorities.