

ICMR's Hospital Network Adds Machine-Learning Early-Warning Signals to India's National AMR Surveillance

AI in the Public Sector · Good practice · India

Quality score: 80/100

Evidence strength: Observational / pre–post

Summary

India's ICMR-run network of tertiary hospitals turned six years of resistance data into machine-learning early-warning signals, flagging cefotaxime resistance as a leading indicator of coming carbapenem resistance across 81,265 bloodstream-infection records from 21 centres.

Key dimensions

Dimension	Score
Evidence of impact / measured public value	2/3
Transparency, fairness & accountability	2/3
Transferability / demonstrated replication	3/3
Scalability beyond pilot	3/3
Governance, capability & sustainability	2/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-09-14

[Indian Council of Medical Research \(ICMR\) — AMR Surveillance Network](#) — accessed 2026-09-14

[ICMR AMR Surveillance Network \(AMRSN\)](#) — accessed 2026-09-14

[The Lancet Regional Health - Southeast Asia](#) — accessed 2026-09-14

[PMC — i-AMRSS system description](#) — accessed 2026-09-14

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