

INDICATE
education
piloting:
AI literacy,
applied
competence
and
institutional
readiness

AI • federated data • governance

A Multi-Dimensional Assessment Framework
for Evaluating AI and Federated Data Training
in Intensive Care: The INDICATE Study

INTRODUCTION

Federated data infrastructures and clinical AI require more than technical deployment. Effective adoption depends on workforce competence, behavioural change, governance and institutional capacity.

OBJECTIVES

To evaluate the educational impact of INDICATE training across individual competence, behavioural intentions and organisational implementation context.

METHODS

Pilot survey export analysed across 22 questions and 32 unique respondents. KAP model extended with applied competency, barrier and readiness constructs. Repeated instruments designed for longitudinal comparison of pre/post training impact. Knowledge test scored across eight AI, data governance and federated infrastructure items.

Assessment Model

Component	Construct assessed
KAP	Knowledge, attitudes, practices
Case test	Applied AI/governance decisions
Barrier Index	Legal, technical & organisational constraints
Readiness Scale	Institutional capacity & feasibility
Training module	Relevance and applicability

CONCLUSIONS

The pilot supports feasibility of a multi-dimensional INDICATE evaluation model. High institutional openness and practice intentions suggest readiness for education-led implementation support. Knowledge gaps identify priority content: model drift, semantic accuracy and governance agreements.

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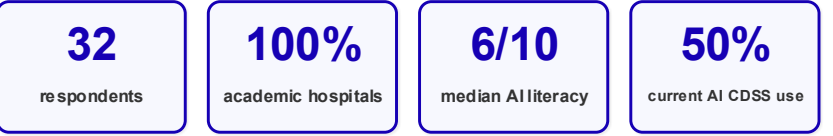
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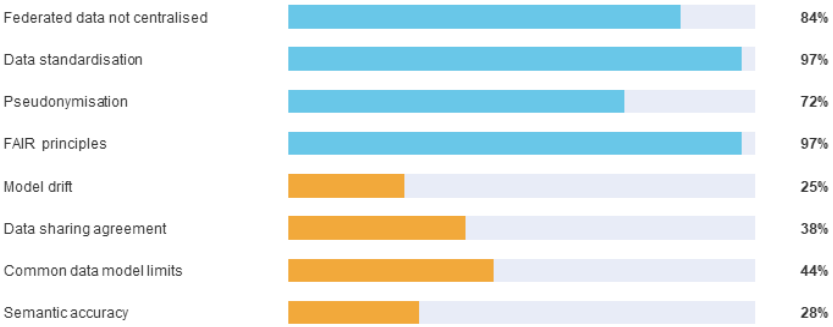
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PILOT RESULTS



Knowledge test performance

Mean score: 4.84/8 correct (60.5%). Strengths were FAIR principles and standardisation requirements; gaps clustered around model drift, semantic accuracy, data sharing agreements and the limits of common data models.



Implementation readiness

Domain	Mean	Favourable/agree
Institutional readiness	4.14/5	82.5%
Perceived barriers	2.69/5	21.3% agree
Applied confidence & attitudes	3.62/5	60.9%
Practice intentions	4.05/5	74.2%