



## CALL FOR PAPERS | *JAMIA Open* Special Issue Health AI Evaluation Showcase

This special issue of *JAMIA Open* will curate a collection of research and applications, literature reviews, short communications, and case reports that exemplify best practices in AI evaluation in healthcare, including research featured in the AMIA AI Evaluation Showcase. Reviews of literature, regulations, policy recommendations, risk management frameworks, and best practice perspectives are welcome with submissions focused on the opportunities and challenges of comprehensive AI evaluation across the three pillars of technical performance, usability and workflow, and the impact on health outcomes and healthcare delivery. In this special issue, we invite submissions for projects to summarize the comprehensive evaluation of AI solutions to include the three phases of evaluation promoted by the AMIA AI Showcase:

- Stage I results of technical model performance (including bias detection and mitigation)
- Stage II results of workflow/usability studies (including pragmatic lessons from implementation in real-world clinical settings)
- Stage III results that measure the impact of the AI implementation

Each submission should articulate a comprehensive evaluation execution process, reference results from Each submission should articulate a comprehensive evaluation plan and reference results from each stage. Special attention should be given to the planned measures of solution impact on health and healthcare delivery, clinical outcomes, patient-reported outcome measures (PROMs), patient-reported experience measures (PREMs), clinician experience and adoption measures, cost of care, or healthcare quality.

Reviews, case reports, or original research studies that synthesize available evidence or illustrate methodological contributions (in the context of planned comprehensive evaluation) are also welcome, including innovations in methods for:

- Improving bias detection and mitigation
- Enhancing transparency of AI models
- Evaluating usability and workflow
- Understanding human factors influences on AI model adoption and use
- Assessing the clinical utility and impact of health AI implementation in real-world settings
- Creating guardrails around health AI
- Developing ethical guidelines

Single-stage studies consider submitting to the [AMIA AI Evaluation Showcase](#), instead of this special issue.

**Submission Deadline:** on a rolling basis till April 1, 2024 | **Review Period:** Nov 15, 2023 - July 1, 2024  
**Decision to Authors:** Rolling basis

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