

Can you trust AI in clinical decision support?

Look out for the 3 pillars of clinical validation

Clinicians need fast, evidence-based answers to support their decisions. Artificial intelligence (AI) can help speed up clinician workflows, but it's important to consider how AI tools have been validated for clinical decision support.

With AI-powered search in Micromedex, trusted answers are delivered fast. The robust editorial process behind the curated content in Micromedex extends seamlessly to our AI functionality, with rigorous end-to-end validation to minimize risks and maximize accuracy at every stage.

We apply 3 pillars of clinical validation in a continuous review cycle:

ONE

Internal testing

- Multiple rounds of testing conducted by clinician subject matter experts and data scientists in close partnership
- Automated testing with human oversight offers scalability for large volumes with optimal accuracy
- Ongoing validation ensures continuous system improvement



TWO

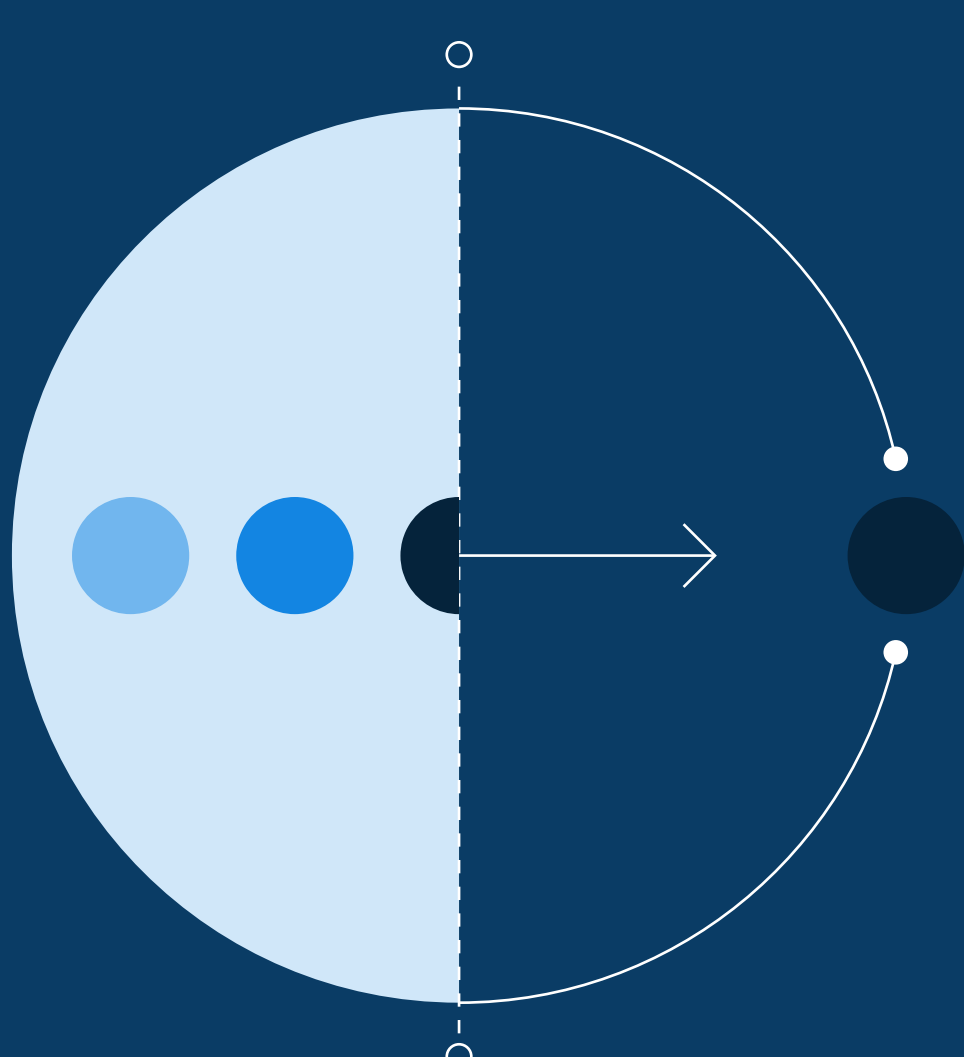
Formalized external validation

- Formal testing by multidisciplinary teams using standardized query sets
- Evaluation of inter-rater agreement across clinical scenarios

THREE

Real-world testing

- Conducted with clinical users who submit real-world clinical queries
- Integrated within live workflows to test actual usage scenarios
- Monitored by a dedicated safety panel review board to evaluate potential risks



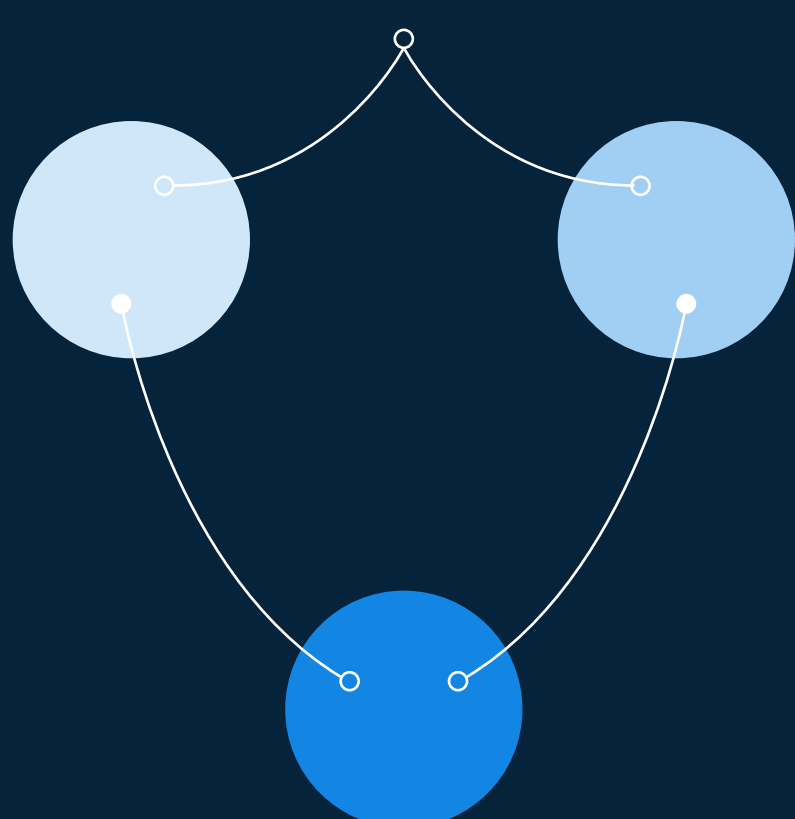
An iterative validation cycle

Clinical validation isn't a one-and-done process. AI tools must evolve to respond to new data, user feedback, and market needs. To ensure long-term accuracy and relevance, while prioritizing patient safety, an iterative validation cycle should include:

- A structured feedback mechanism
- Ongoing monitoring of response quality and risk of harm
- A formal review and mitigation strategy

Why it matters

Clinical care relies on trust and precision. That's why our three-pronged validation approach matters. It ensures AI tools support efficient, high-quality patient care without replacing human expertise. Rigorous validation of AI algorithms and workflows builds clinician trust and aligns AI tools with the realities of patient care.



Learn more about AI in clinical decision support

[Take a look at the AI-powered search in Micromedex](#) ➤

[Explore more AI insights and resources for clinicians](#) ➤

About Micromedex

Micromedex by Merative is trusted by healthcare professionals in over 80 countries to provide award-winning clinical decision support solutions for drug and disease information and patient education. Micromedex was named Best in KLAS 2023 (clinical decision support: point of care clinical reference), is recognized as a CMS compendium, and has been recognized for its robust editorial process.

Learn more at merative.com/clinical-decision-support/micromedex

Forward Looking Statement

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