

## **Finding What Works in Health Care: Updating Standards for Systematic Reviews**

### **AI Use Across the Systematic Review Workflow: The Use and Validation of AI Tools for Systematic Reviews**

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**Gerald Gartlehner** is a full professor for Evidence-based Medicine and Clinical Epidemiology at the University for Continuing Education Krems, Austria, where he chairs the Department for Evidence-based Medicine and Evaluation. He is the Co-Director of Cochrane Austria and a co-convenor of the Cochrane Rapid Review Methods Group. He is also the Associate Director of the RTI-University of North Carolina Evidence-based Practice Center. Prof. Gartlehner has more than two decades of experience in systematic reviews and meta-analyses of healthcare interventions. His main professional interests concern comparative effectiveness and safety of medications, rapid evidence synthesis, and the use of artificial intelligence for evidence synthesis. Prof. Gartlehner has served as a scientific advisor to national and international organizations such as the Austrian Ministry of Health, the World Health Organization, and the US Consumers Union. He is also a member of the Cochrane Editorial Board.

**Kevin Kallmes** is a serial entrepreneur in medical research and technology, with expertise in evidence synthesis, AI applications, and research methods. As cofounder and CEO of Nested Knowledge, he recognized the gap in technologies for living, interactive, and automated systematic review methods and led the creation of a human-in-the-loop, AI-enabled platform that reflects best practices in evidence synthesis. After studying Bioethics, Science Policy, and Law at Duke University and interning with the NIH, Kevin pioneered not only the adoption of AI review methods across top Life Sciences companies and research institutions but also analysis of the policies, guidance, and ethics surrounding responsible deployment of AI solutions and living review practices in health technology assessment, publishable reviews, and scientific communication generally.

**Artur Nowak** is the co-founder of Evidence Prime, a company at the forefront of integrating artificial intelligence into evidence-based medicine. He holds a Master's degree in Computer Science from Jagiellonian University, specializing in natural language processing and information retrieval—key areas in the efficient synthesis and analysis of medical evidence. As a seasoned software engineer, Artur leads Evidence Prime's AI team and directs product strategy. He actively collaborates with academic institutions, fostering a robust research foundation to support the company's innovative solutions. His research, featured in peer-reviewed journals, focuses on advancing GRADE guidelines, applying AI to evidence synthesis, and developing user-friendly software for healthcare professionals. Artur's published research spans diverse topics, showcasing his contributions to advancing evidence-based medicine through innovative technology and collaboration. Artur frequently presents at international conferences, sharing insights into the intersection of AI and evidence-based healthcare. He is committed to driving global conversations around the role of technology in improving medical decision-making and patient outcomes.