

Patient Perspectives on AI in Healthcare in the Era of Generative AI: A Scoping Review

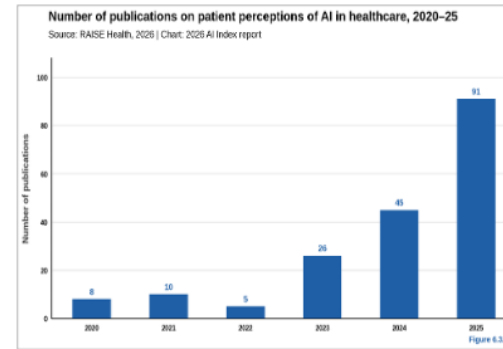
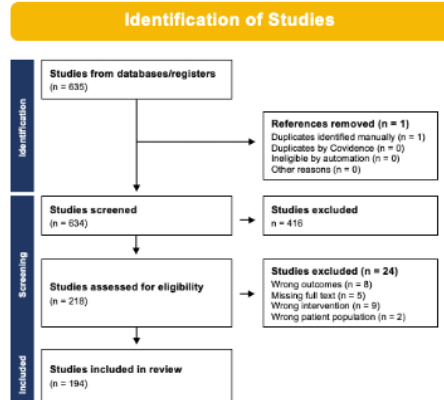
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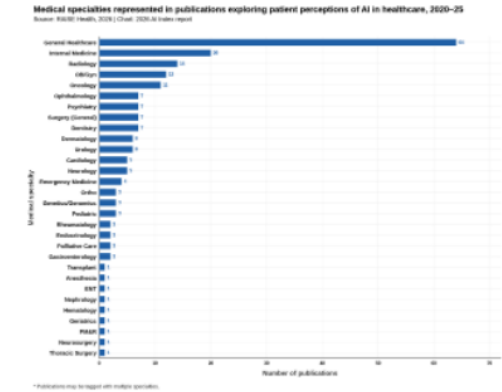
Background & Aim

- AI is rapidly transforming health care across diagnostics, decision support, remote monitoring, documentation, and virtual care.
- Patient perspectives are essential for patient-centered, ethical, and equitable AI deployment, yet remain underexplored
- Aim:** To map the breadth of evidence on patient perspectives of AI in healthcare (2020-2025) and characterize the evolution of thematic focus and over time.

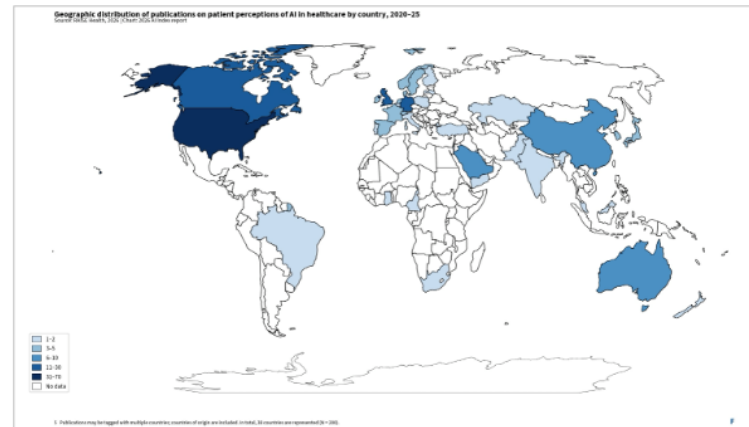
Results



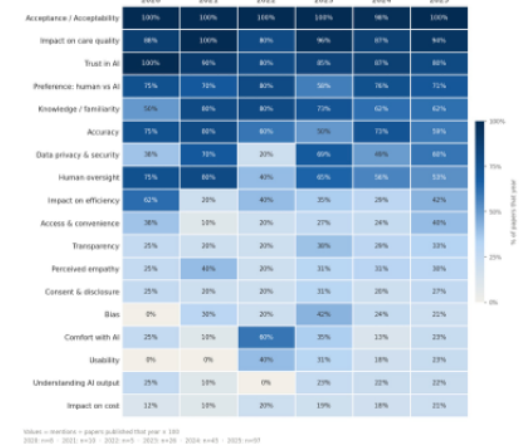
Publication volume grew by 10x over 5 years



Geographic Representation



Themes evaluated — % of papers per year, 2020-2025



Methods

- A scoping review was conducted guided by the Joanna Briggs Institute (JBI) methodological framework and reported according to the PRISMA-ScR reporting guidelines. LLM assisted data extraction was utilized.
- Three PubMed, Embase, and Scopus databases were searched from January 2020 – December 2025.
- Population:** Studies involving pediatric and/or adult patients or their caregivers
- Concept:** Studies reporting patient perspectives, attitudes, or experiences of AI in healthcare
- Context:** Studies examining AI tools used in or proposed for healthcare settings

Conclusions

- Publication volume on the patient perspective of AI in healthcare grew tenfold between 2020 and 2025.
- The United States, United Kingdom, and Germany account for the greatest number of publications, while studies from sub-Saharan Africa, Latin America, and Southeast Asia remain underrepresented.
- Studies including children and adolescents as participants, remain rare.
- Foundational themes of trust and acceptability persist in the literature, while a growing frontier of practical concerns (privacy, access, and usability) continues to emerge.