

Appendix 1: Full search strategy

SEARCH DATE: 01 AUGUST 2024		
Pubmed	("active Participation"[Title/Abstract] or "participatory health"[Title/Abstract] OR "empower*"[Title/Abstract] OR "shared decision"[Title/Abstract] OR "patient involvement"[Title/Abstract] OR "doctor-patient relationship"[Title/Abstract] OR "healthcare professional-patient relationship"[Title/Abstract] OR "communication"[Title/Abstract]) and ("Artificial intelligence"[Title/Abstract] OR "data-driven"[Title/Abstract] OR "machine learning"[Title/Abstract] OR "deep learning"[Title/Abstract] OR "transformative model*"[Title/Abstract] OR "generative AI"[Title/Abstract]) AND ("barriers"[Title] OR "Facilitators"[Title] OR "Shortcomings"[Title] OR "weaknesses"[Title] OR "risks"[Title] OR "strengths"[Title] OR "challenges"[Title] OR "Impact*"[Title] OR "Threats"[Title] OR "Opportunities"[Title])	279
IEEE Xplore	(((((Abstract:active Participation) OR (Abstract:participatory health) OR (Abstract:empower) OR (Abstract:shared decision) OR (Abstract:patient involvement) OR (Abstract:doctor-patient relationship) OR (Abstract:healthcare professional-patient relationship) OR (Abstract:communication))) AND ((Abstract:Artificial intelligence) OR (Abstract:data-driven) OR (Abstract:machine learning) OR (Abstract:deep learning) OR (Abstract:transformative model*) OR (Abstract:generative AI))) AND ((Publication Title:barriers) OR (Publication Title:Facilitators) OR (Publication Title:Shortcomings) OR (Publication Title:weaknesses) OR (Publication Title:risks) OR (Publication Title:strengths) OR (Publication Title:challenges) OR (Publication Title:Impact*) OR (Publication Title:Threats) OR (Publication Title:Opportunities)))	47
Cochrane Reviews	#1 active Participation in Title Abstract Keyword OR participatory health in Title Abstract Keyword OR empower* in Title Abstract Keyword OR shared decision in Title Abstract Keyword OR patient involvement in Title Abstract Keyword OR doctor-patient relationship in	282

	Title Abstract Keyword OR healthcare professional-patient relationship in Title Abstract Keyword OR communication in Title Abstract Keyword OR communication in Title Abstract Keyword #2 Artificial intelligence in Title Abstract Keyword OR data-driven in Title Abstract Keyword OR machine learning in Title Abstract Keyword OR deep learning in Title Abstract Keyword OR transformative model* in Title Abstract Keyword OR generative AI in Title Abstract Keyword #3 barriers in Record Title OR Facilitators in Record Title OR Shortcomings in Record Title OR weaknesses in Record Title OR risks in Record Title OR strengths in Record Title OR challenges in Record Title OR Impact* in Record Title OR Threats in Record Title OR Opportunities in Record Title #1 AND #2 AND #3	
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Appendix 2: PRISMA Flow chart

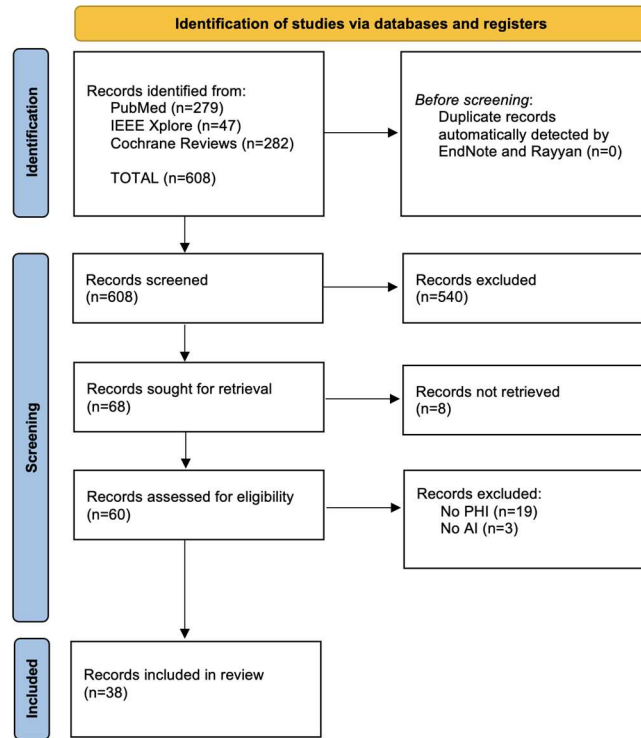


Figure 1. PRISMA flowchart