

- **Development and validation of an autonomous artificial intelligence agent for clinical decision-making in oncology** — D. Ferber et al., *Nature Medicine / Nature partner* (2025).

Type: Journal article (full text page / PDF). Short: Describes development/validation of an autonomous LLM-based agent that performs clinical reasoning and actions on oncology records.

- **The Role of Agentic Artificial Intelligence in Healthcare — A Systematic Review** — B. G. Collaco et al., (ResearchSquare / ResearchGate preprint; 2025).

Type: Systematic review (full PDF). Short: Systematically reviews agentic AI systems in healthcare, characterizing applications, outcomes and limitations.

- **Next-generation agentic AI for transforming healthcare** — N. Karunanayake et al., *ScienceDirect* (2025).

Type: Journal / full-text article. Short: Review/position piece on agentic AI's potential for diagnostics, decision support and clinical workflows.

- **Agentic-AI Healthcare: Multilingual, Privacy-First Framework with MCP Agents** — M. A. Shehab (arXiv preprint, 2025).

Type: arXiv PDF. Short: Prototype system emphasizing privacy, explainability and multilingual capability for agentic healthcare assistants.

- **Toward autonomous and adaptive intelligence in radiology / clinical imaging workflows** — B. Koçak et al., *Diagnostic Imaging Report / DIR Journal* (2025).

Type: Journal PDF. Short: Examines agentic AI integration into radiology tasks (orchestration, tool usage, result synthesis) while leaving final signoff to clinicians.

- **Development and validation of an autonomous clinical decision-making agent (oncology)** — ResearchGate PDF — (June 6, 2025).

Type: Conference/preprint PDF on ResearchGate (full). Short: Technical validation of an agentic system for oncology decision pathways.

- **Agentic AI in Healthcare — Industry white paper (Amitech Solutions)** (2025).

Type: Industry whitepaper (PDF). Short: Practical guidance, use-case examples and integration considerations for agentic AI in provider and payer systems.

- **HealthFlow: A Self-Evolving AI Agent with Meta Planning for Autonomous Healthcare Research** Y. Zhu et al. (2025) Introduces HealthFlow, a self-evolving agentic AI system with meta-planning and the EHRFlowBench benchmark.
- **Tiered Agentic Oversight: A Hierarchical Multi-Agent System for AI Safety in Healthcare (TAO)** Y. Kim et al. (2025) Proposes a hierarchical multi-agent oversight framework (TAO) to improve safety and task routing across tiers.
- **Beyond Correlation: Towards Causal Large Language Model Agents in Biomedicine** A. Bazgir et al. (2025) Advocates integrating causal reasoning into LLM-based agentic systems for safer biomedical inference.
- **Towards a HIPAA Compliant Agentic AI System in Healthcare** S. Neupane et al. (2025) Presents a HIPAA-aware architecture for agentic AI, covering PHI governance, access control, and immutable audit trails.
- **AI agents in radiology: toward autonomous and adaptive intelligence** B. Koçak & İ. Meşe (2025) Review/commentary on transitioning radiology tools to autonomous, adaptive agentic systems.
- **ConfAgents: A Conformal-Guided Multi-Agent Framework for Cost-Efficient Medical Diagnosis** H. Zhao et al. (2025) Introduces a conformal-guided multi-agent diagnostic framework to improve cost-efficiency and reliability.
- **Voice-based AI Agents: Filling the Economic Gaps in Digital Health** B. Wen (2025) Explores voice-first agentic systems for remote triage, medication adherence, and preventive care in low-resource settings.
- **Generative AI in healthcare: challenges to patient agency and ethical implications** S. A. Holmes et al. (2025) Discusses ethical issues around generative and agentic AI, focusing on patient agency and safety
- **Beyond Chatbots: Moving Toward Multistep Modular AI Agents in Medical Education** M. Chow & O. Ng (2025) Describes modular agentic systems for medical education that support multistep reasoning tasks.
- **Large Language Model-Based Autonomous Agent for Prognostics and Health Management** M. Cha et al. (2025) Application of an LLM-based autonomous agent for prognostics and health management (PHM) tasks.
- **Overcoming regulatory barriers to the implementation of AI agents in healthcare** *Nature Medicine* Editorial (2025) Discussion of regulatory mismatches and recommendations to adapt frameworks for agentic AI deployment.

- **The Agentic Era: Why Biopharma Must Embrace Artificial Intelligence That Acts, Not Just Informs** S. E. Lakhan (2025) Editorial on strategic implications of agentic AI for biopharma and clinical research.
- **From LLM Reasoning to Autonomous AI Agents — survey and benchmarks** M. A. Ferrag (2025) Survey of benchmarks and evaluation frameworks for transitioning LLMs into autonomous agents; includes healthcare discussion.
- **Multi-agent Artificial Intelligence Systems in Healthcare: Applications, Challenges, and Future Prospects** M. R. Saeed et al. (2025) Review article on multi-agent systems, applications, and challenges in healthcare operations and clinical care.
- **Transformative Multi-Agent Conversational AI for Precision Medicine** L. N. S. Dogiparthi (2025) Discusses conversational multi-agent frameworks for integrating longitudinal patient histories in precision medicine.
- **A Self-Learning Multi-Agent System for Intelligent Medical Pre-Consultation** (preprint) C. Yu et al. (2025) Hierarchical multi-agent system designed for pre-consultation intelligent triage and workflow orchestration.
- **AI for Clinical Applications: Agentic AI 2025 Workshop Proceedings** (Springer LNCS) Qiu J., Wu J., Langlotz C., et al. (eds) (2025) Proceedings covering agentic AI workshops focused on clinical imaging and medical LLMs.
- **Rethinking artificial intelligence in medicine: from tools to agents** Y. C. Lee (2025) Editorial reframing AI's role in medicine from passive tools to active agents.