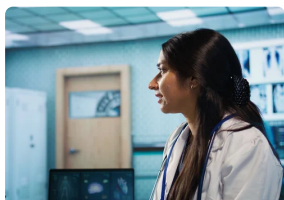# Veille Santé Num (Juillet 2025)
37 Items

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Evaluating the Reasoning Capabilities of Large Language Models for Medical Coding and Hospital Readmission Risk Stratification: Zero-Shot Prompting Approach #LLM

🌐 jmir.org

JMIR / Background: Large Language Models (LLMs) such as ChatGPT-4, LLaMA-3.1, Gemini-1.5, DeepSeek-R1, and OpenAI-O3 have shown promising potential in healthcare, par...

AI-AI bias: Large language models favor communications generated by large language models - PubMed #LLM

❯ nih.gov

Proc Natl Acad Sci U S A / Are large language models (LLMs) biased in favor of communications produced by LLMs, leading to possible antihuman discrimination? Using a classical experimental design inspired

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Verification is All You Need: Prompting Large Language Models for Zero-Shot Clinical Coding - PubMed #LLM

❯ nih.gov

IEEE Journal of Biomedical and Health Informatics / Clinical coding translates medical information from Electronic Health Records (EHRs) into structured codes such as ICD-10, which are essential for healthcare

Bridging artificial intelligence and biological sciences: a comprehensive review of large language models in bioinformatics - PubMed #LLM

Briefings in bioinformatics / Large language models (LLMs), representing a breakthrough advancement in artificial intelligence, have demonstrated substantial application value and development potential in bioinformatics

Natural language processing in medical text processing: A scoping literature review - PubMed #SR

Int J Med Inform / The review revealed that modern NLP techniques, particularly BERT-based models and hybrid approaches, show significant promise in medical text processing across different languages. While

Development and evaluation of prompts for a large language model to screen titles and abstracts in a living systematic review #LLM #SR

BMJ Mental Health / Background Living systematic reviews (LSRs) maintain an updated summary of evidence by incorporating newly published research. While they improve review curren...

Harm Reduction Strategies for Thoughtful Use of Large Language Models in the Medical Domain: Perspectives for Patients and Clinicians - PubMed #LLM

JMIR / The integration of large language models (LLMs) into health care presents significant risks to patients and clinicians, inadequately addressed by current guidance. This paper adapts harm reduction

When Patients Arrive With Answers - PubMed

nih.gov

JAMA / In this narrative medicine essay, a family medicine physician works through the challenge of responding to the medical advice patients bring from ChatGPT to understanding patients' need to be heard.

Comprehensive analysis of frameworks for evaluating artificial intelligence solutions in Healthcare: A descriptive review - PubMed

nih.gov

Comput Biol Med / According to the authors' knowledge, this framework is the most comprehensive, encompassing such a wide range of aspects. With this comprehensive approach, decision-makers can directly compare

AI-Standardized Clinical Examination Training on OSCE Performance

nejm.org

NEJM AI / Objective structured clinical examinations (OSCEs) are a critical but resource-intensive means of training medical students and assessing their clinical competence. The potential of artificial intelligence (AI)–driven

Lack of Methodological Rigor and Limited Coverage of Generative AI in Existing AI Reporting Guidelines: A Scoping Review - PubMed #LLM

nih.gov

J Clin Epidemiol / .Existing AI reporting guidelines in medicine have suboptimal methodological rigor, redundancy, and insufficient coverage of GAI applications. Future and updated guidelines should prioritize

Toward fair medical advice: Addressing and mitigating bias in large language model-based healthcare applications

sciencedirect.com

Artificial Intelligence in Medicine / Large Language Models (LLMs) are increasingly deployed in web-based medical advice applications, offering scalable and accessible healthcare solutions...

Google's AI co-scientist and OpenAI's deep research: new partners in health research? - PubMed
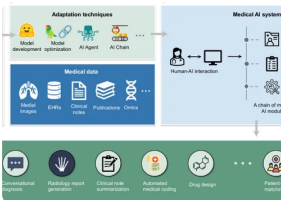
nih.gov

Eur J Cardiovasc Nurs / In February 2025, Google introduced its artificial intelligence (AI)-powered co-scientist, while OpenAI launched its Deep Research system. Both tools are designed to support researchers by

Performance of Large Language Models in Numerical Versus Semantic Medical Knowledge: Cross-Sectional Benchmarking Study on Evidence-Based Questions and Answers - PubMed #LLM

nih.gov

J Med Internet Res / Both LLMs excelled more in semantic than numerical Q and As, with Claude 3 surpassing GPT-4 in numerical Q and As. However, both LLMs showed inter- and intramodel gaps in different

A perspective for adapting generalist AI to specialized medical AI applications and their challenges - PMC #LLM
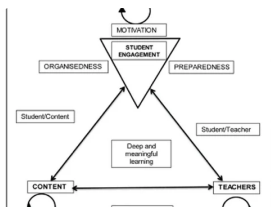
nih.gov

NPJ Digit Med / We introduce a framework to adapt large language models for medicine: (1) Modeling: breaking down medical workflows into manageable steps; (2) Optimization: optimizing model performance via

Large language models for the screening step in systematic reviews in dentistry - PubMed #LLM #SR

nih.gov

J Dent / Theoretically, Chatbots can streamline SR tasks such as screening. However, human oversight remains critical to maintain the integrity of the review.

Integrating Artificial Intelligence in Medical Education: A Meta-Synthesis of Potentials and Pitfalls of ChatGPT - PMC #EDUC

J Adv Med Educ Prof / ChatGPT serves as a double-edged sword in education, offering either constructive information or potential challenges. Its impact ranges from being a transformative tool to a

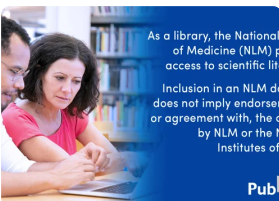## Implementing Large Language Models in Health Care: Clinician-Focused Review With Interactive Guideline #LLM

JMIR / Background: Large language models (LLMs) can generate outputs understandable by humans, such as answers to medical questions and radiology reports. With the ra...

ICD code mapping model based on clinical text tree structure - PubMed #LLM
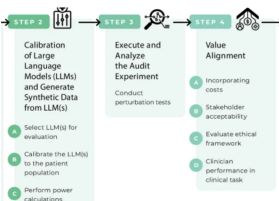
Artificial Intelligence in Medicine / With the rapid development and progress of big data and artificial intelligence technology, the ICD coding problem of electronic medical records has been effectively solved. The

Physician- and Large Language Model-Generated Hospital Discharge Summaries - PubMed #LLM

JAMA Intern Med / In this cross-sectional study of 100 inpatient hospital medicine encounters, LLM-generated discharge summary narratives were of comparable quality, and were preferred equally, to those generated by

Framework for bias evaluation in large language models in healthcare settings - npj Digital Medicine #LLM

npj Digital Medicine / A critical gap in the adoption of large language models for AI-assisted clinical decisions is the lack of a standardized audit framework to evaluate models for accuracy and bias. Our framework

A flexible two-stage anonymization framework for narrative medical records adapting to various language models - PubMed
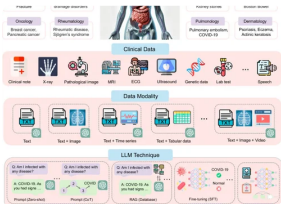
▶ nih.gov

Comput Biol Med / The healthcare sector increasingly relies on Electronic Health Records (EHRs) for efficient and high-quality patient care by providing rapid access to comprehensive medical information. However,

Generative-AI-Based Approaches for Information Extraction from Clinical Notes: A Scoping Review - PubMed #LLM
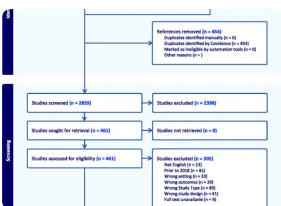
▶ nih.gov

Stud Health Technol Inform / The growing adoption of Large Language Models (LLMs) in clinical settings could transform how information is extracted from clinical documents. Yet challenges persist regarding

Large language models for disease diagnosis: a scoping review - PMC #LLM

▶ nih.gov

NPJ Artif Intell / Automatic disease diagnosis has become increasingly valuable in clinical practice. The advent of large language models (LLMs) has catalyzed a paradigm shift in artificial intelligence, with growing

Clinical applications of large language models in medicine and surgery: A scoping review - PMC #LLM

▶ nih.gov

J Int Med Res / To provide a comprehensive overview of the current use of large language models in clinical medicine and surgery, with emphasis on model characteristics, clinical applications, and readiness for adoption.

Zero- and few-shot Named Entity Recognition and Text Expansion in medication prescriptions using large language models - PubMed #LLM

▶ nih.gov

Artif Intell Med / Medication prescriptions in electronic health records (EHR) are often in free-text and may include a mix of languages, local brand names, and a wide range of idiosyncratic formats and

A comparative evaluation of chain-of-thought-based prompt engineering techniques for medical question answering - PubMed #LLM

nih.gov

Comput Biol Med / Complex prompting techniques do not significantly enhance performance compared to simpler approaches. Dataset characteristics and model architecture have greater impact, suggesting

Delving into LLM-assisted writing in biomedical publications through excess vocabulary - PubMed #LLM

nih.gov

Science advences / Large language models (LLMs) like ChatGPT can generate and revise text with human-level performance. These models come with clear limitations, can produce inaccurate information, and

Establishing data governance for sharing and access to real-world data: a case study - PubMed #EDS

nih.gov

JAMIA Open / These findings suggest data governance practices that may apply to other institutions.

Archives

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Veille Santé Num (Archives avril 2025)

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Veille Santé Num (Archives mars 2025)

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Veille Santé Num (Archives Février 2025)

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Veille Santé Num (Archives Janvier 25)

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