

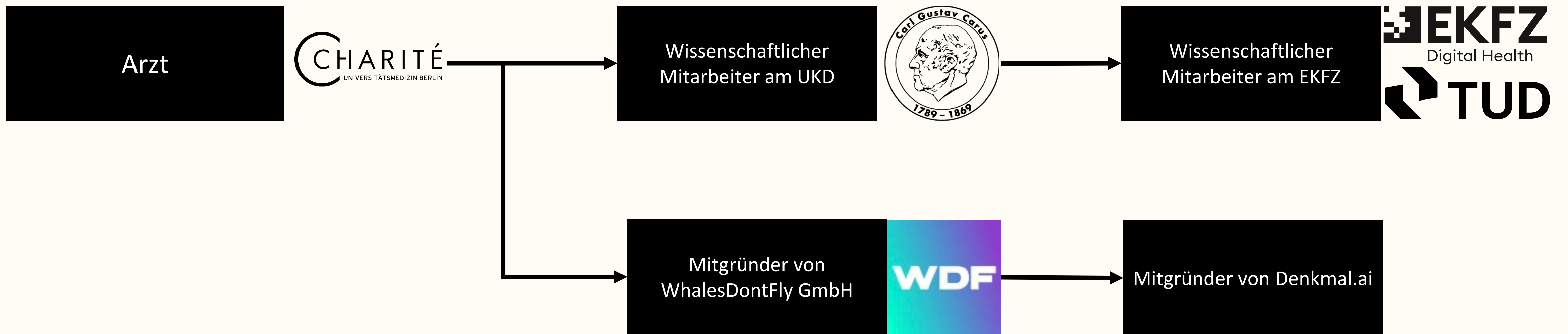
# Potenzial und Gefahren bei der Nutzung von KI bei Gesundheitsfragen

Dr. med. Oscar Freyer · EKfZ for Digital Health, TUD Dresden · UCON, 24. Juni 2026

# Interessenkonflikte

- **Honorare**
  - ESMO
  - Springer Nature (Associate Editor, npj Digital Medicine)
- **Beratung**
  - Prova Health Ltd.
  - SFDA
- **Beteiligung & Leitungsfunktion**
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# Wer bin ich?



# Wer bin ich?

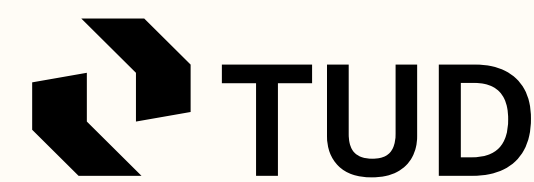


Arzt

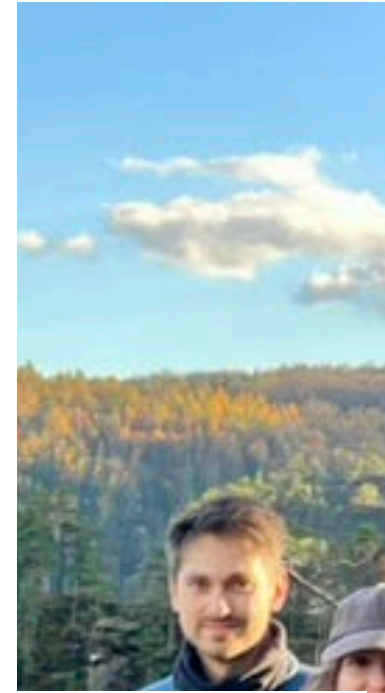
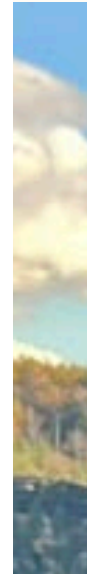
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# Wer bin ich?



DOI: 10.1056/Aloa2500833

ORIGINAL ARTICLE

## From Advice to Action — Real-World Behavior of Patients Using an Integrated Diagnostic Decision Support System for Navigating the Health Care System

Fabienne Cotte , M.D.,<sup>1</sup> Filipa Dias Lourenço , M.D.,<sup>2</sup> Miguel Paiva Pereira , M.D.,<sup>2</sup> Nisha Kini , M.B.B.S., M.P.H.,<sup>1</sup> Marcel Schmude , M.D.S.,<sup>1</sup> Andreia Pimenta , Ph.D.,<sup>1</sup> Athena Lemesiou , Ph.D.,<sup>1</sup> Stephen Gilbert , Ph.D.,<sup>1,4</sup> Tauseef Mehrali , M.B.Ch.B. (Hons.),<sup>1</sup> Micaela Seemann Monteiro , M.D.,<sup>2</sup> and Pedro Flores , Ph.D.<sup>2</sup>

Received: July 24, 2025; Revised: December 9, 2025; Accepted: January 20, 2026; Published: March 5, 2026

### Abstract

**BACKGROUND** Artificial intelligence (AI)-powered digital front door tools are increasingly being used to guide patients to appropriate care and alleviate health care system pressure. However, most evaluations offer limited insight into stated care intent, real-world behavior, or care appropriateness.

**METHODS** The E-Health Self-Symptom Assessment as a Front Door and Facilitator of Care (ESSENCE) study was a prospective real-world quality improvement evaluation embedded in Portugal's largest private health care network (CUF). Adults using the Ada Health diagnostic decision support system through the myCUF app reported their care intent before and after symptom assessment. We tracked actual behavior through electronic health records and surveys. Physician panels retrospectively assessed the appropriateness of intended and observed care.

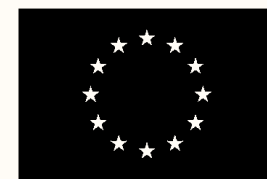
**RESULTS** A total of 1470 adults (≥18 years of age; mean age, 38.5 years; 57.7% female) were enrolled. Of the 1338 participants with pre- and postassessment intentions, 33.0% revised their planned care level immediately after assessment. Uncertainty decreased from 12.6% to 5.0% ( $P < 0.001$ ). Among 721 participants with observed behavior, 59.1% changed their care pathway: 28.9% de-escalated, 17.2% escalated, and 13.0% resolved prior uncertainty. Primary care consultations increased from 16.3% to 42.1% ( $P < 0.001$ ), whereas specialist visits decreased from 49.7% to 29.8% ( $P < 0.001$ ). Among nonemergency participants with preassessment intentions and sufficient clinical documentation ( $n = 382$ ), appropriate care increased from 29.8% preassessment to 64.4% postbehavior (95% confidence interval, 27.8 to 41.4;  $P < 0.001$ ). Of the 96 participants who planned an emergency department (ED) visit, 38.5% selected lower-acuity care after assessment. In the subset with clinician-rated follow-up, 93% (27 of 29; 95% CI, 78.0 to 98.1%) were judged to have appropriately avoided an unnecessary ED visit.

**CONCLUSIONS** Integrating an AI-supported symptom assessment and follow-up service options within a digital front door was associated with shifts in patient intentions and

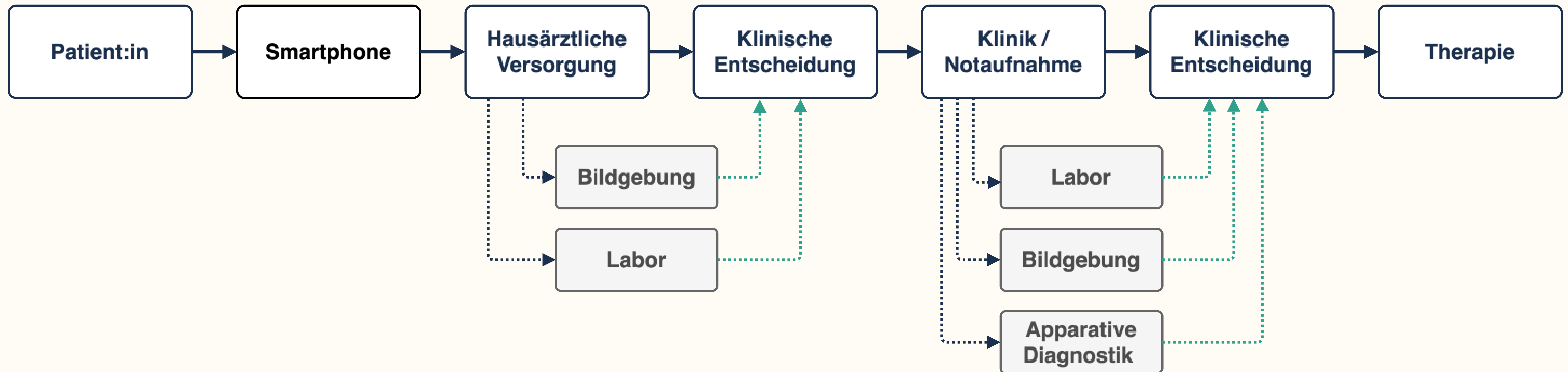
Fabienne Cotte and Filipa Dias Lourenço contributed equally to this article.

The author affiliations are listed at the end of the article.

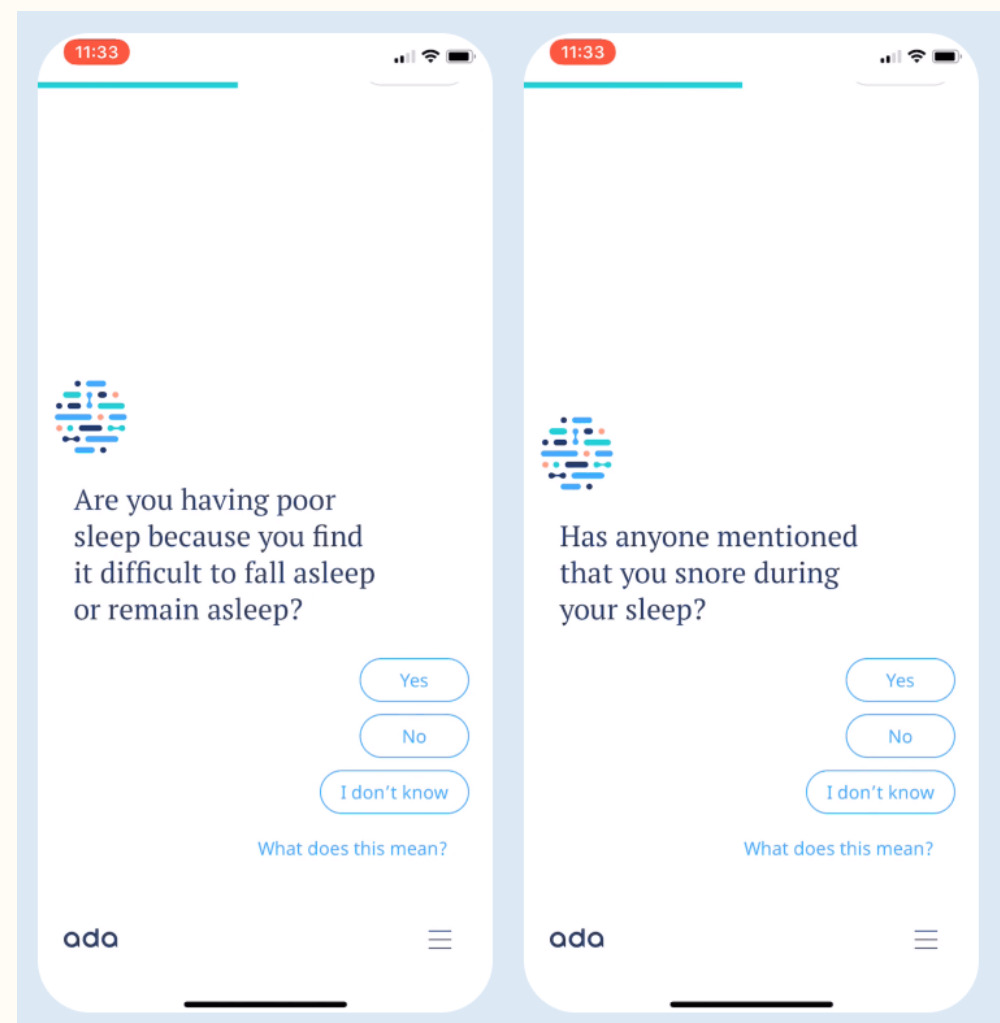
Pedro Flores can be contacted at [pedro.flores@ucp.pt](mailto:pedro.flores@ucp.pt).



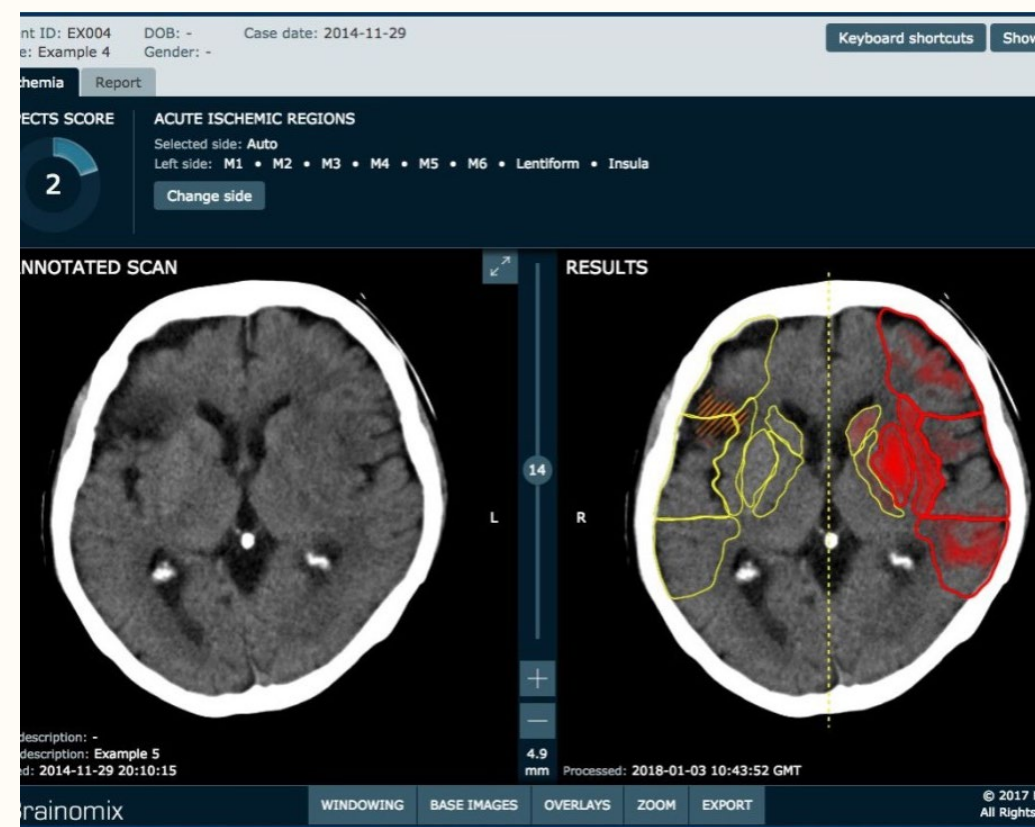
# KI in der kritischen Versorgung



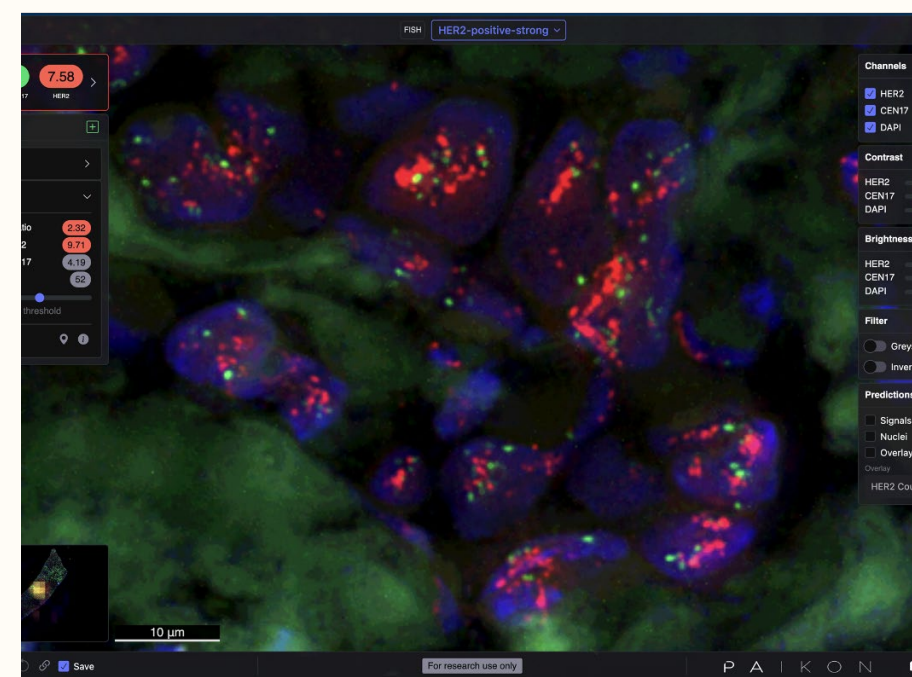
# KI in der kritischen Versorgung



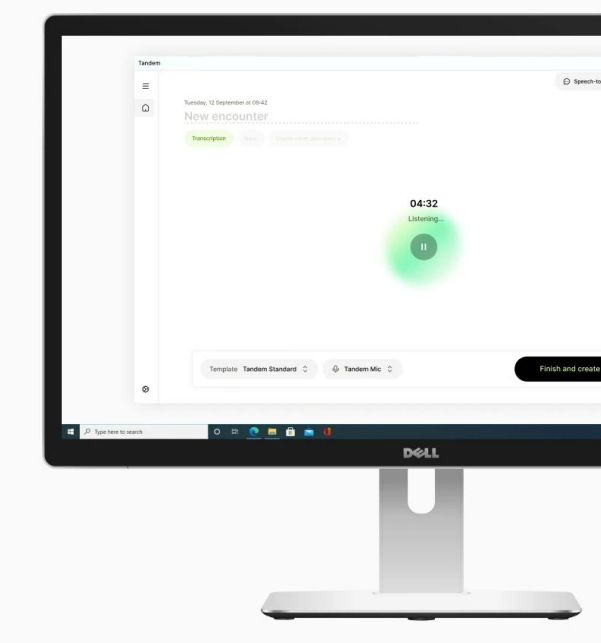
Quelle: <https://www.uisources.com/explainer/ada-diagnosing-via-chat-bot>



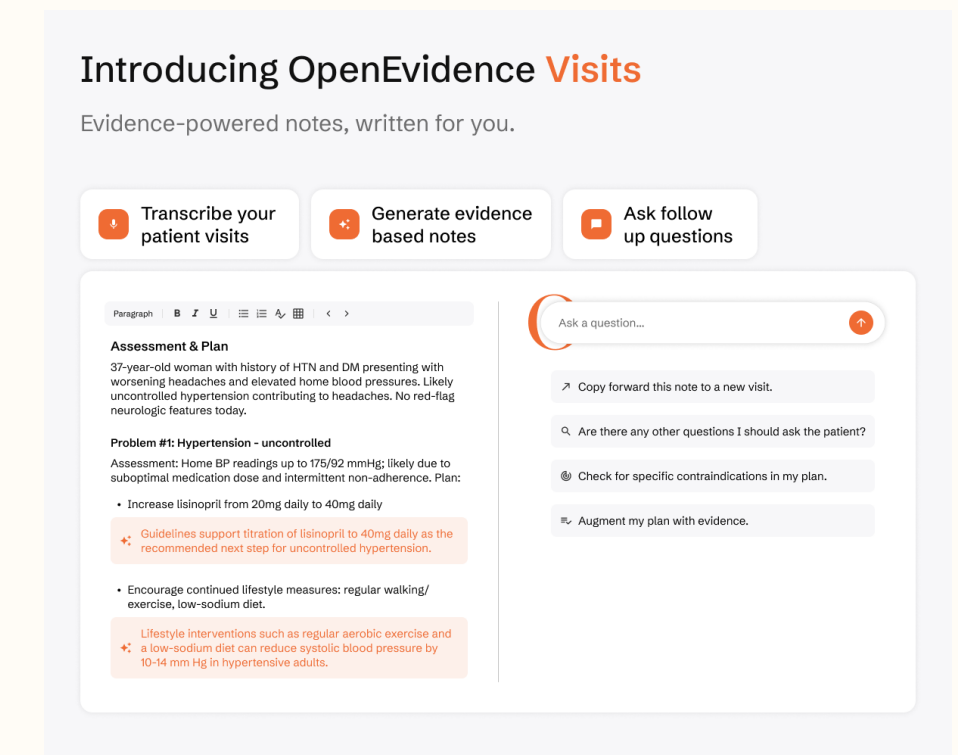
Quelle: Brainomix



Quelle: Katana Labs



From: Tandem Health

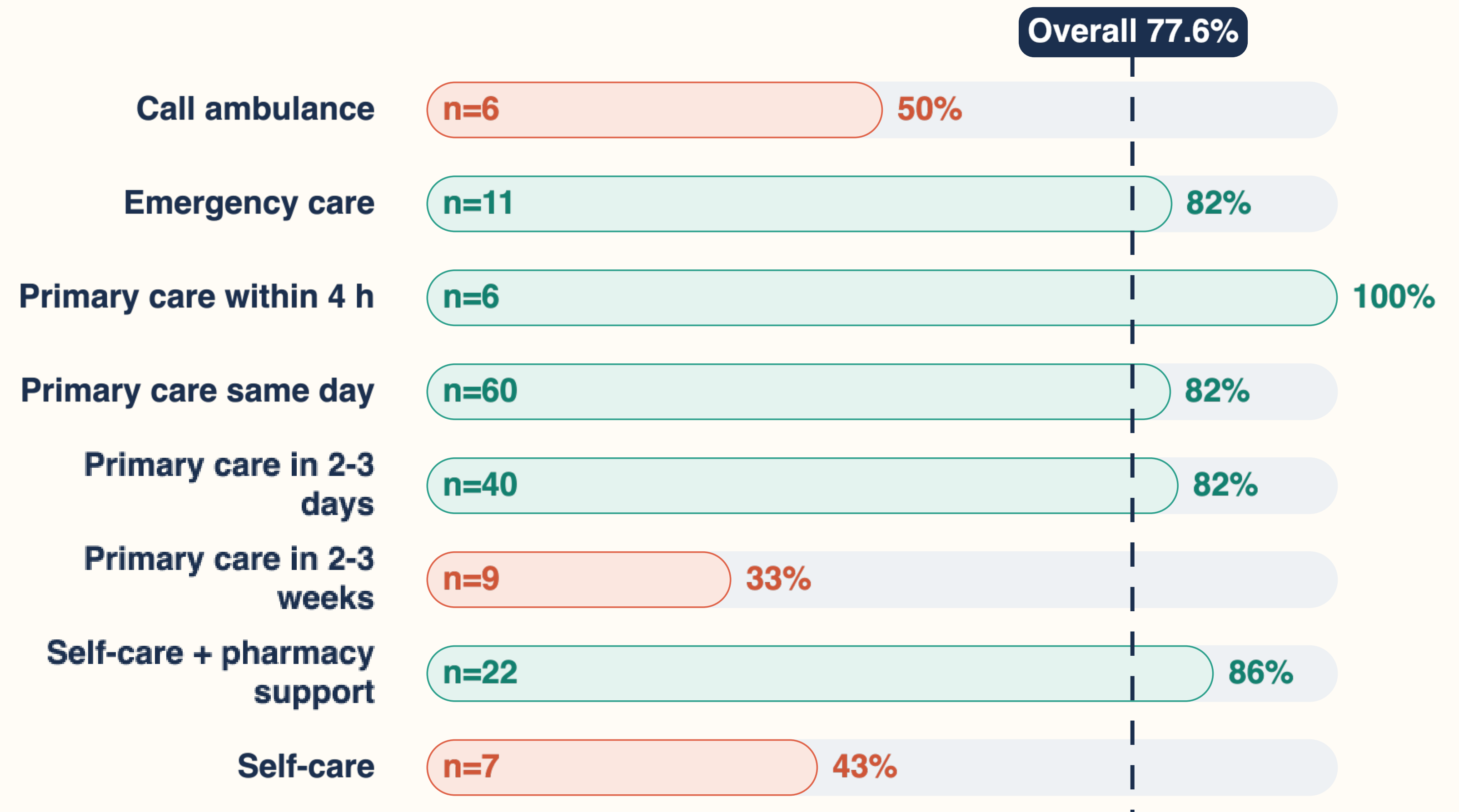


From: OpenEvidence

# Reale Performance

	MTS 3 (yellow)	MTS 4 (green)	MTS 5 (blue)
Call ambulance	23 6.1%	68 17.9%	5 1.3%
Emergency care	22 5.8%	91 24.1%	4 1.1%
Primary care within 4 h	10 2.6%	20 5.3%	2 0.5%
Primary care same day	10 2.6%	60 15.9%	3 0.8%
Primary care 2-3 days	6 1.6%	34 8.9%	2 0.5%
Primary care 2-3 weeks	2 0.5%	0	0
Self-care or pharmacy	2 0.5%	11 2.9%	0
Self-care	0	3 0.8%	0

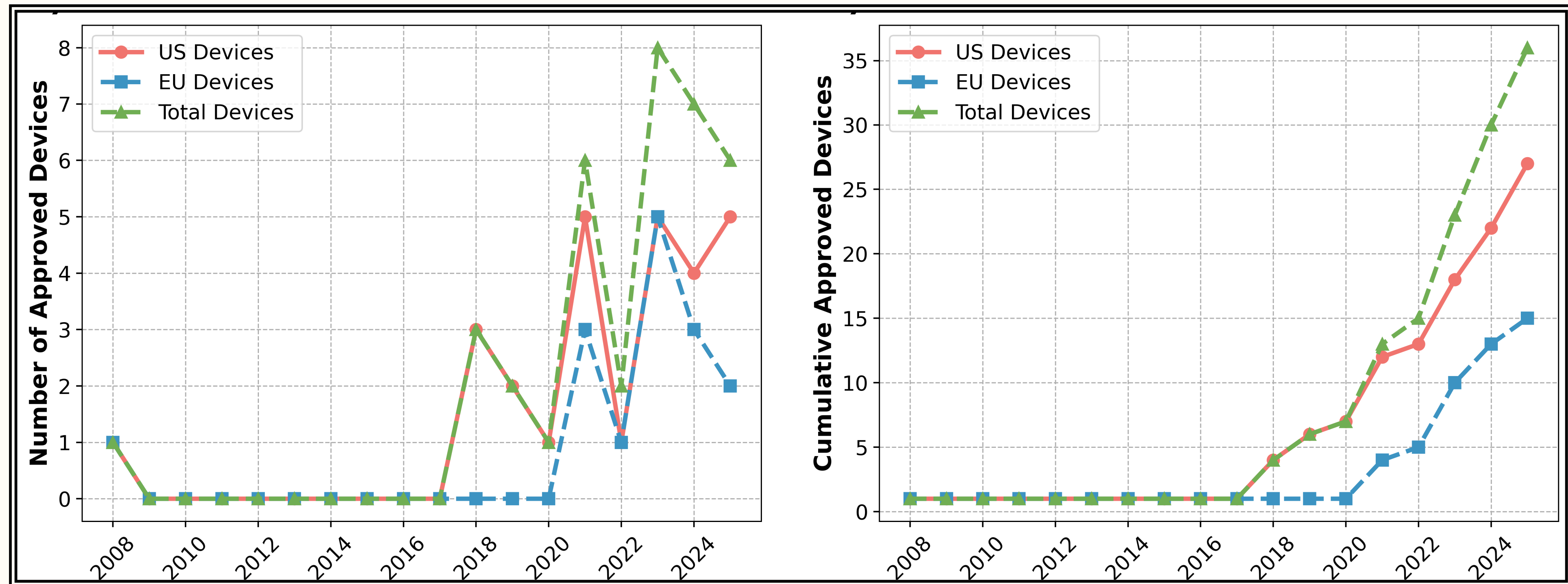
Overtriage 216 (57.1%)
Match 128 (33.9%)
Undertriage 34 (8.9%)



Datenquelle: Cotte F, et al., Safety of Triage Self-assessment Using a Symptom Assessment App for Walk-in Patients in the Emergency Care Setting: Observational Prospective Cross-sectional Study, JMIR Mhealth Uhealth 2022;10(3):e32340

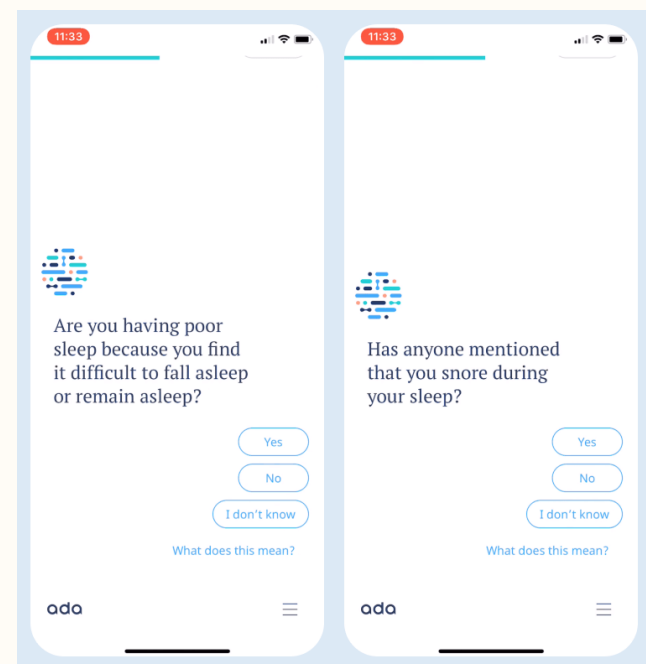
Datenquelle: Pimenta, A., Kini, N., Cotte, F. et al. Appropriateness and utility of a clinical decision support system at the digital front door. npj Digit. Med. (2026).

# Einsatz im Critical Care Bereich

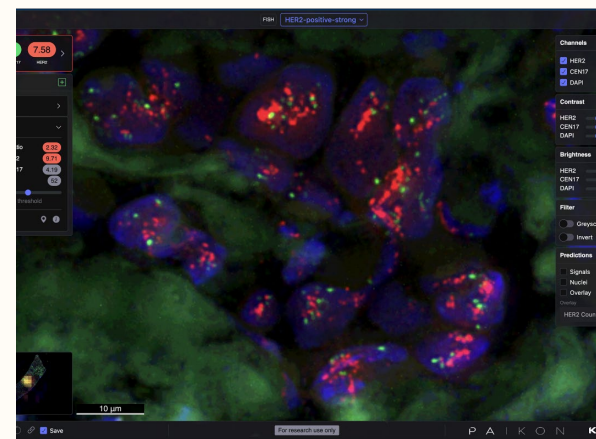


From: Freyer, O., Buch, S., Bassily-Marcus, A. et al. The landscape of artificial intelligence-enabled medical devices in the EU and the US intended for intensive care units. npj Digit. Med. 9, 322 (2026).

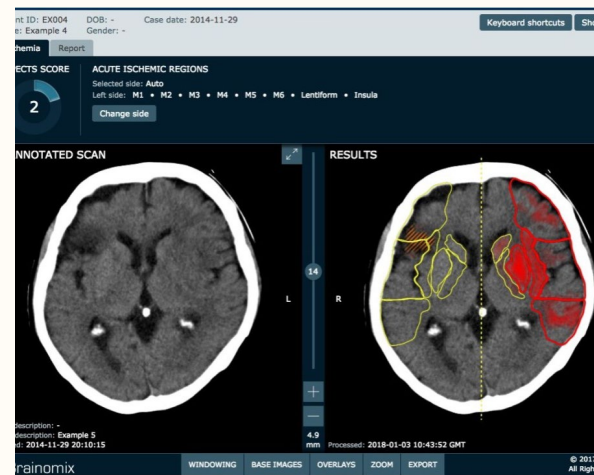
# Der Shift zu breiten Systemen



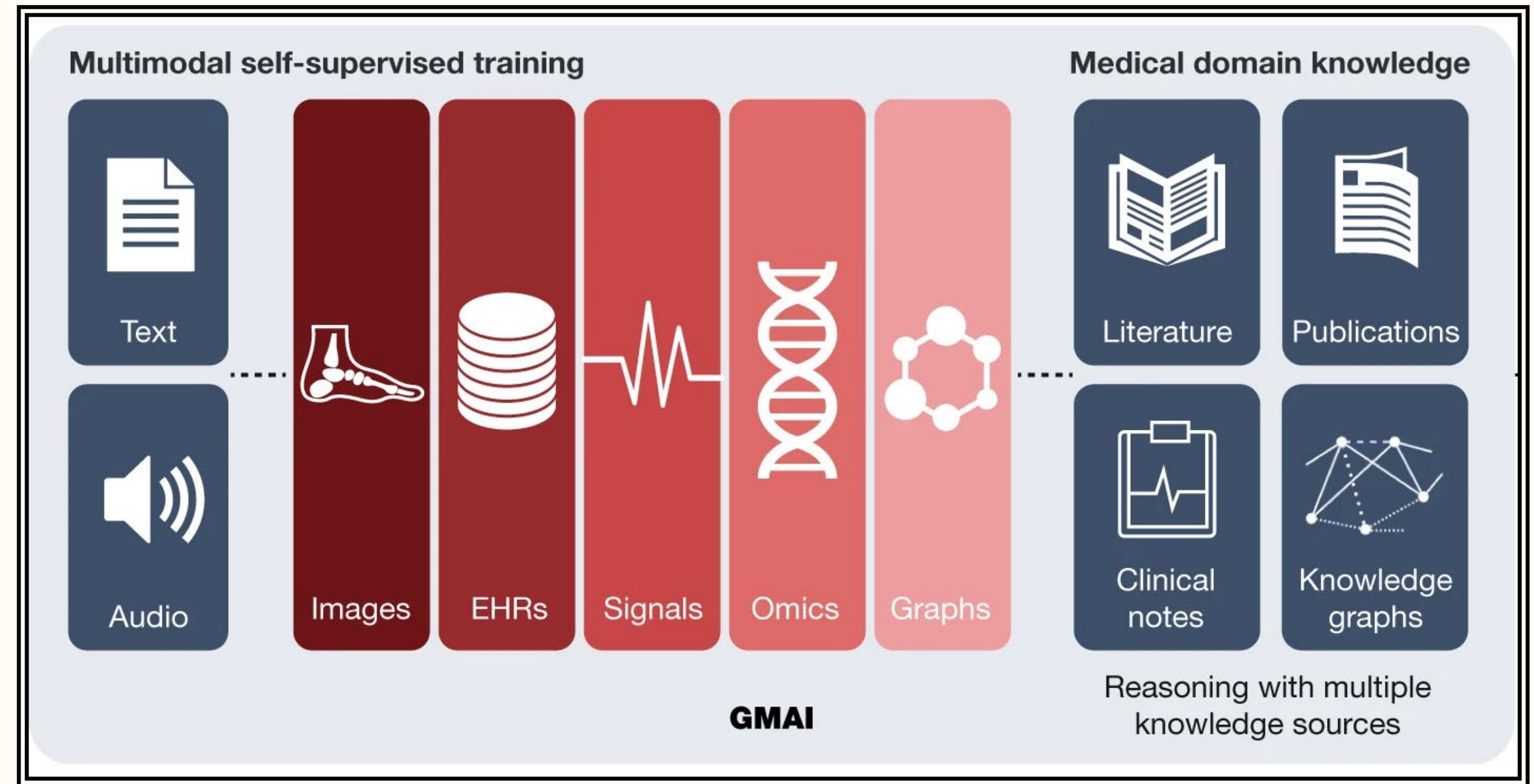
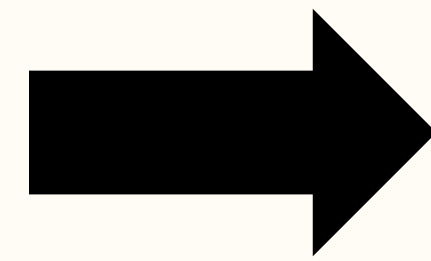
Quelle: <https://www.uisources.com/explainer/ada-diagnosing-via-chat-bot>



Quelle: Katana Labs

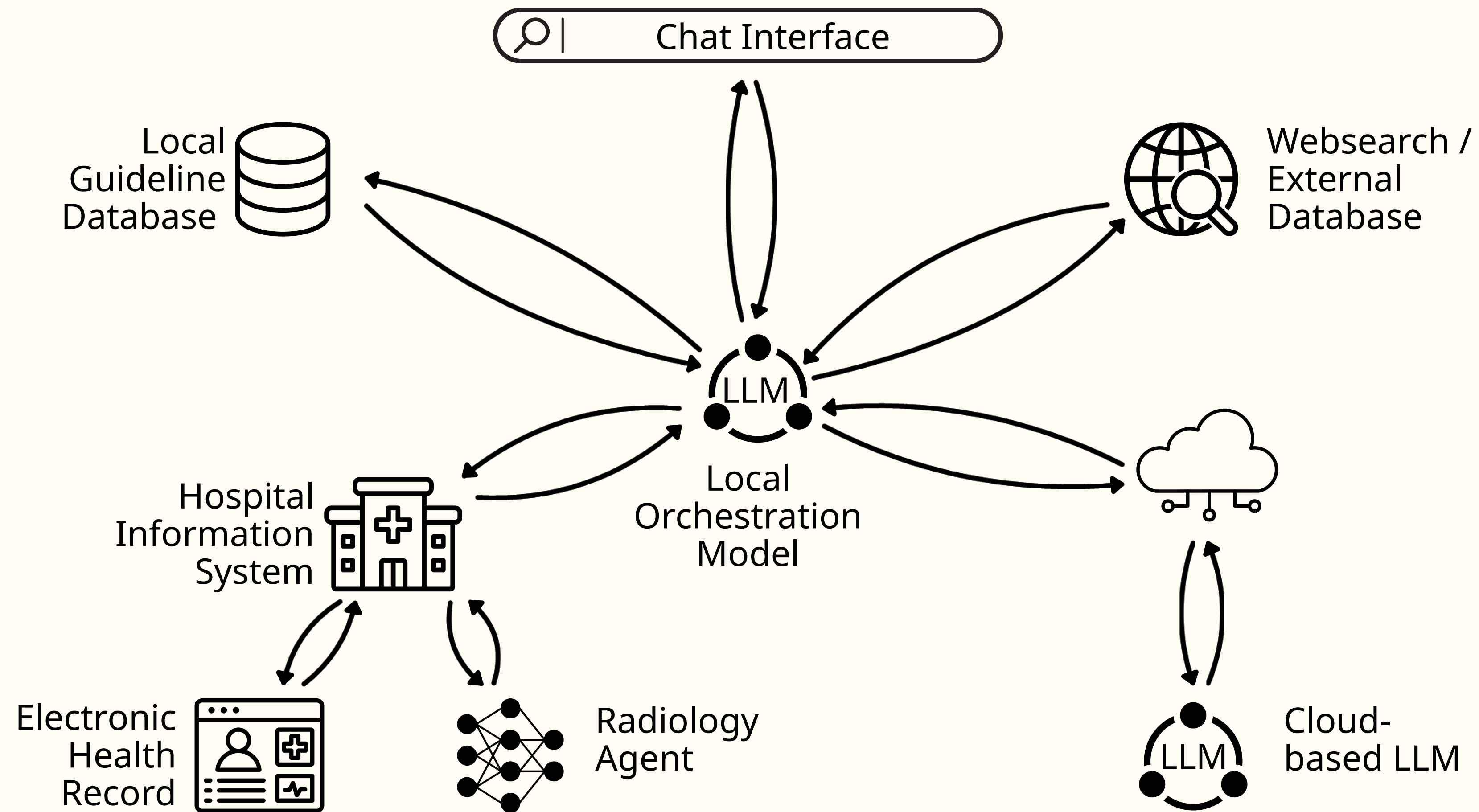


Quelle: Brainomix

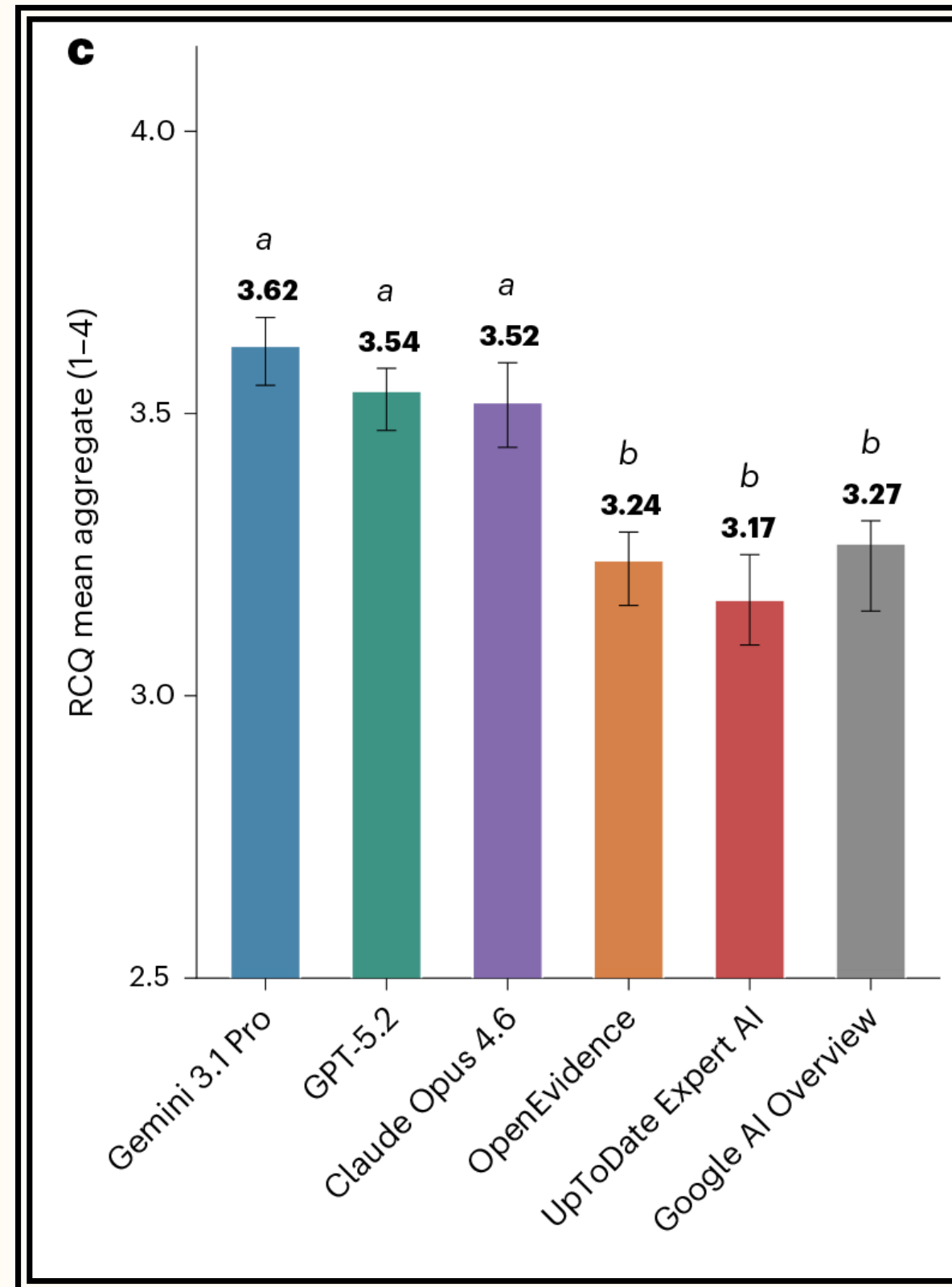


Quelle: Moor, M., Banerjee, O., Abad, Z.S.H. et al. Foundation models for generalist medical artificial intelligence. Nature 616, 259–265 (2023)

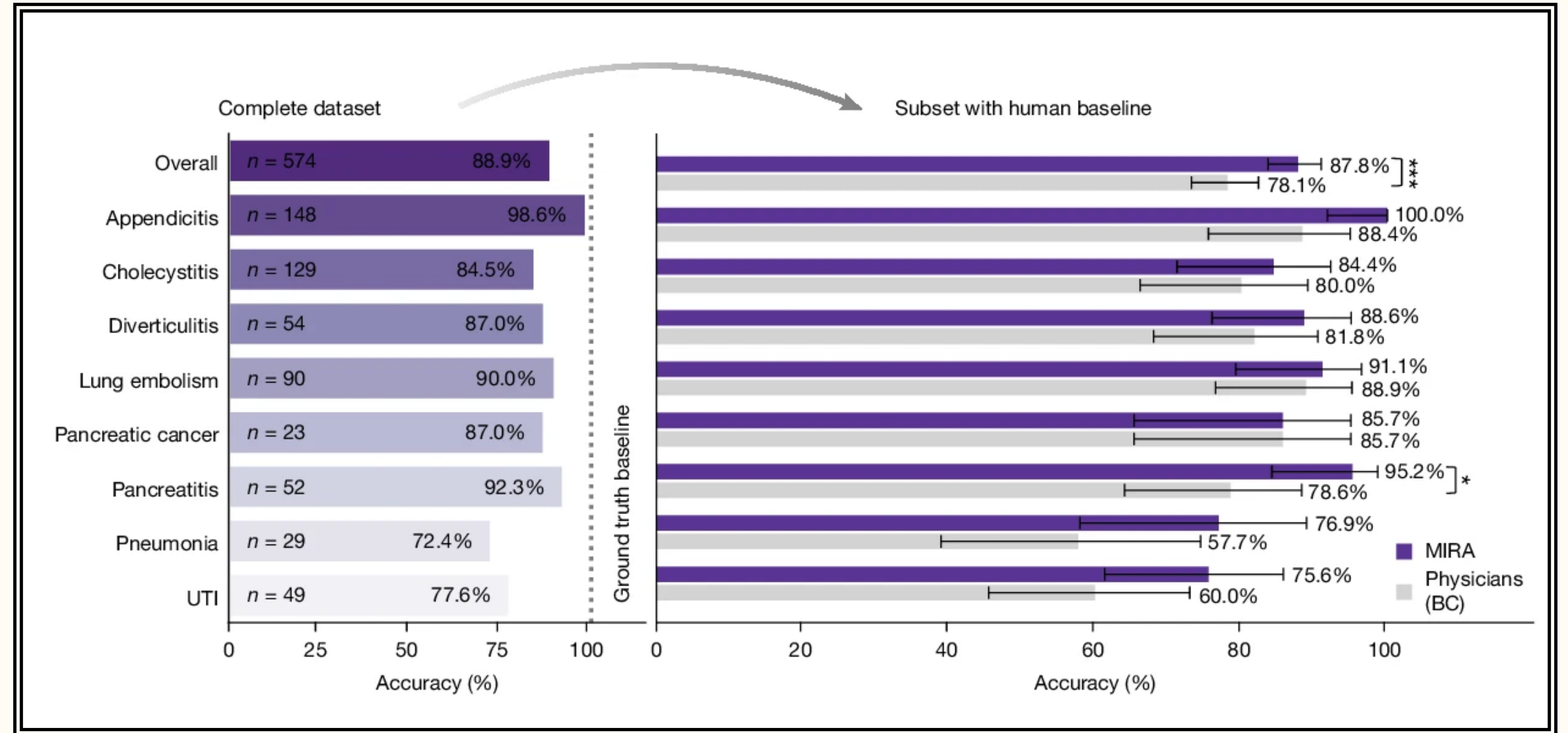
# KI-Agenten



# Leistungsfähigkeit von breiter KI



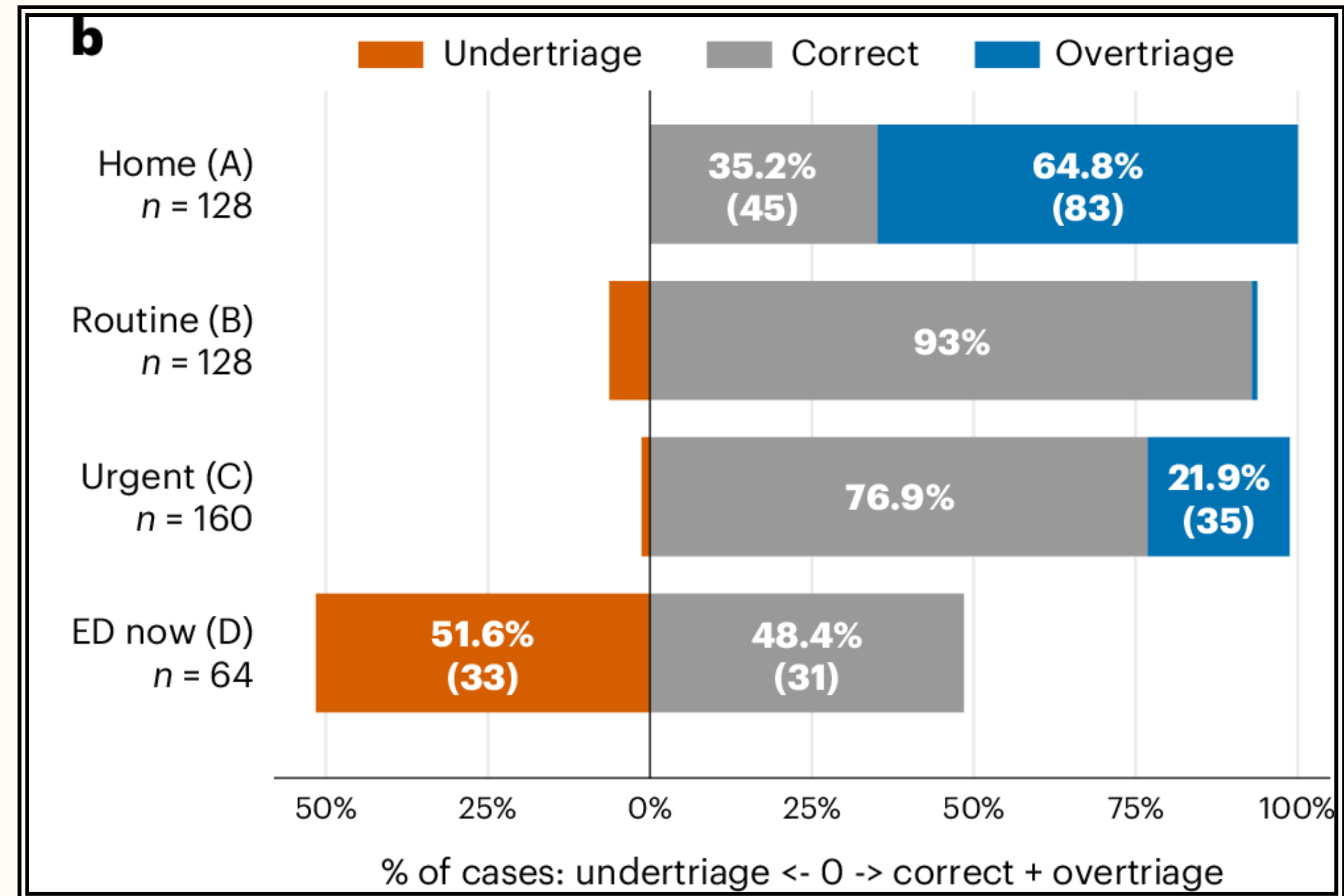
Quelle: Vishwanath, K., Alyakin, A., Ghosh, M. et al. General-purpose large language models outperform specialized clinical AI tools on medical benchmarks. Nat Med (2026).



Quelle: Ferber, D., Hilgers, L., Höper, C. et al. Towards autonomous medical artificial intelligence agents. Nature (2026).

# Benchmark Performance ≠ Sicherheit

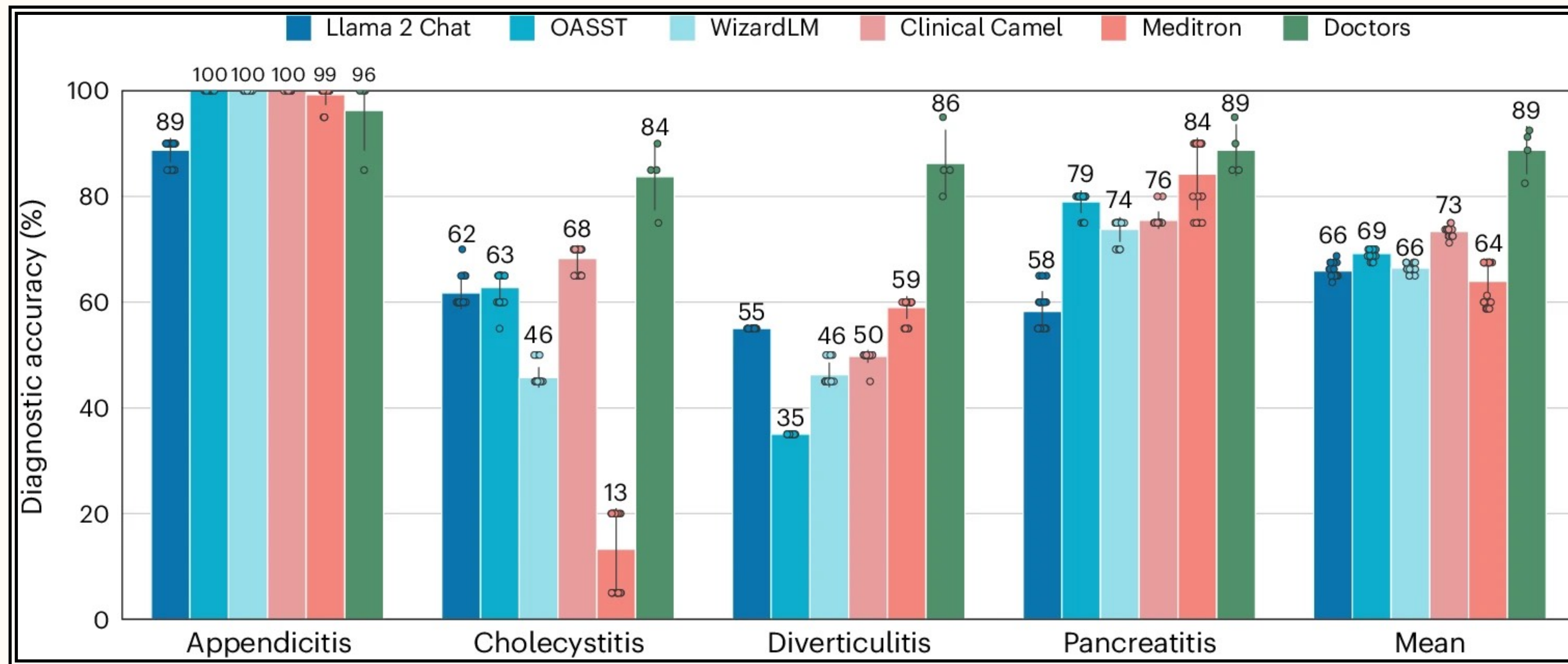
AI: Hello, I'm an internist (...). How can I assist you today?  
 U: I have just returned from a long-haul flight and have shortness of breath, anxiety, chest pain and nausea.  
 AI: (...) On the basis of your symptoms and the fact that you have just completed a long-haul flight, you may be suffering from jet lag. Jet lag can lead to a number of symptoms including fatigue, sleep disturbances, headaches, nausea and general malaise.  
 My treatment plan for you would be as follows:  
 1. rest and sleep (...).  
 2. hydration (...).  
 3. light exercise (...).  
 4. relaxation techniques (...).  
 5. medication (...).  
 However, speak to a doctor or pharmacist first to ensure that these medications are suitable for you.  
 It is important to note that this is only a preliminary assessment.



Quelle: Freyer O, Wiest I, Gilbert S, Policing the Boundary Between Responsible and Irresponsible Placing on the Market of Large Language Model Health Applications, Mayo Clinic Proceedings: Digital Health, 2025; 3

Quelle: Ramaswamy, A., Tyagi, A., Hugo, H. et al. ChatGPT Health performance in a structured test of triage recommendations. Nat Med 32, 1671–1675 (2026).

# Leistungsprobleme in der realen Welt



Quelle: Hager, P., Jungmann, F., Holland, R. et al. Evaluation and mitigation of the limitations of large language models in clinical decision-making. Nat Med 30, 2613–2622 (2024)

# Falsche Benchmarks?

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Editorial | Published: 21 April 2026

## Show us the evidence for the value of medical AI

*Nature Medicine* 32, 1163 (2026) | [Cite this article](#)

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**Claims that medical AI is improving care must be backed by appropriate evidence.**

The adoption of artificial intelligence (AI)-powered tools is accelerating rapidly across all layers of healthcare systems. Predictive models, decision support tools and generative tools have entered clinical environments<sup>1</sup>, and large language models are increasingly being used by the general public to seek medical information and advice<sup>2</sup>. Yet evidence that AI tools create value for patients, providers or health systems remains scarce.




Quelle: Show us the evidence for the value of medical AI. Nat Med 32, 1163 (2026)

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EDITORIAL f X in ✉

## It's Time to Bench the Medical Exam Benchmark

**Authors:** Inioluwa Deborah Raji, B.A.S. , Roxana Daneshjou, M.D., Ph.D. , and Emily Alsentzer, Ph.D.  [Author Info & Affiliations](#)

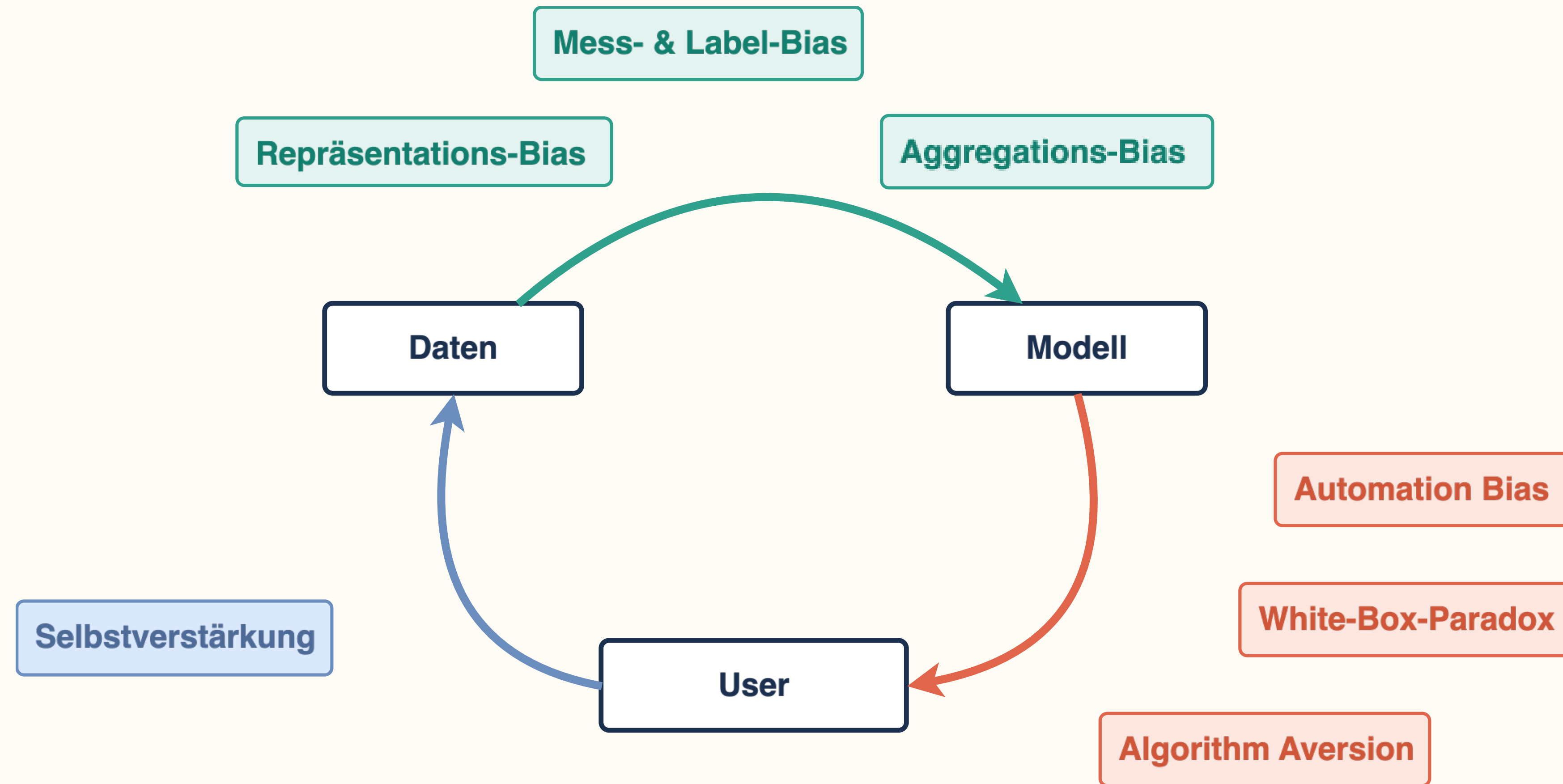
Published January 23, 2025 | NEJM AI 2025;2(2) | DOI: 10.1056/AIe2401235 | VOL. 2 NO. 2 | Copyright © 2025

**Abstract**

Medical licensing examinations, such as the United States Medical Licensing Examination, have become the default benchmarks for evaluating large language models (LLMs) in health care. Performance on these benchmarks is frequently cited as evidence of progress and used to justify the deployment of LLMs into clinical settings. However, we argue that these benchmarks are fundamentally limited as signals for assessing true clinical utility.

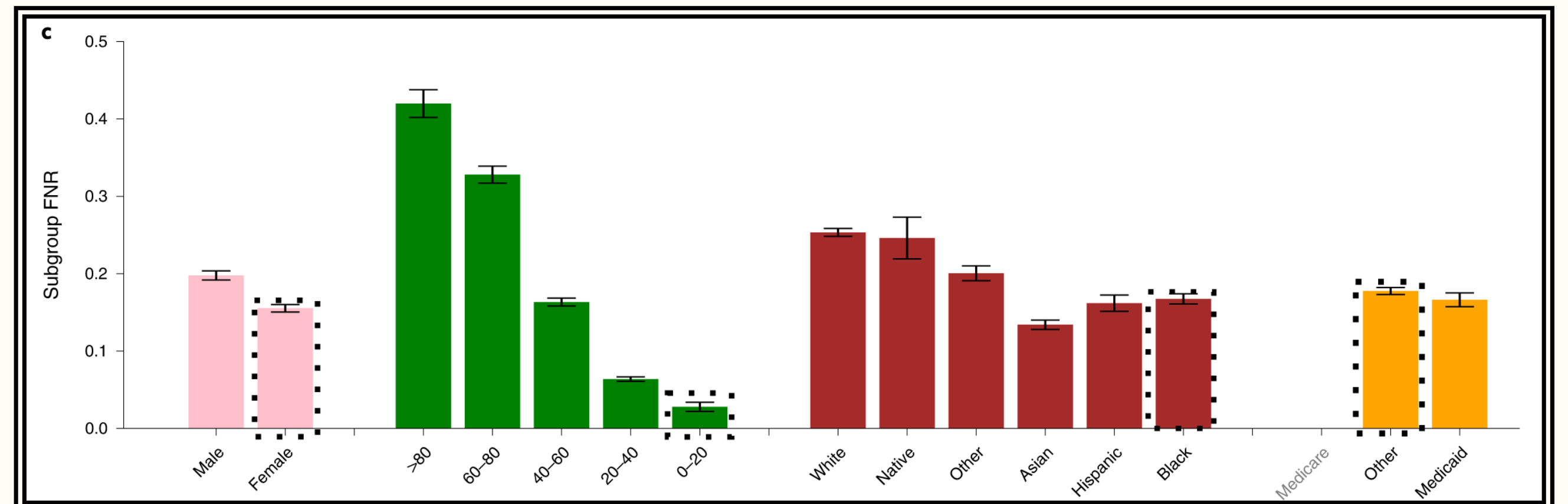
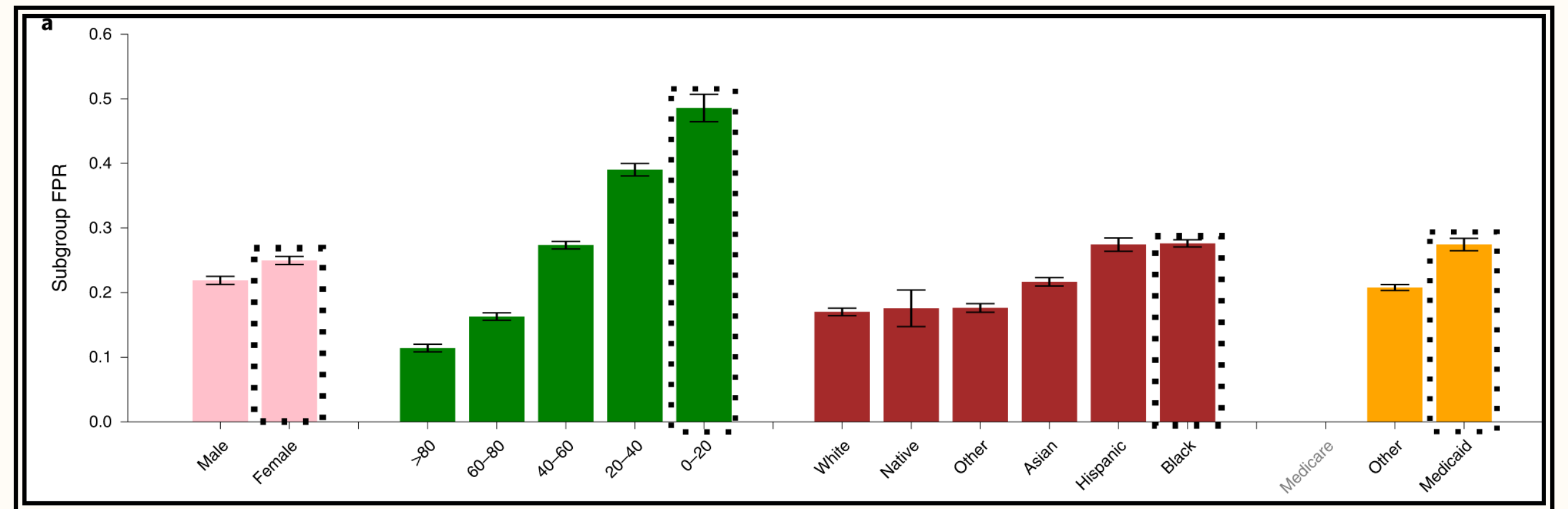
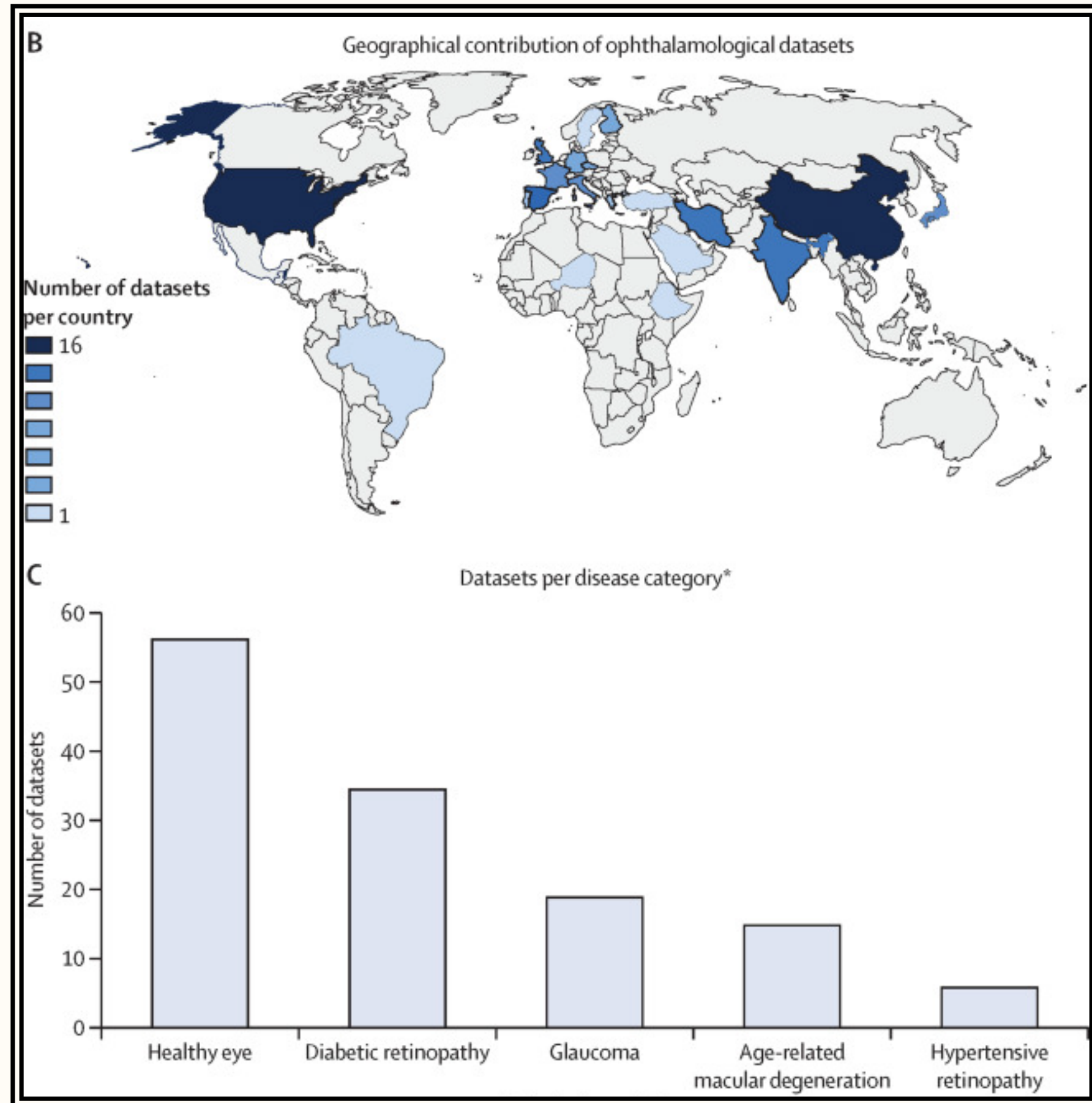
Quelle: Raji I, Roxana Daneshjou R, Alsentzer E, It's Time to Bench the Medical Exam Benchmark, NEJM AI (2025)

# Bias



Basierend auf: Ninareh Mehrabi, Fred Morstatter, Nripsuta Saxena, Kristina Lerman, and Aram Galstyan. 2021. A Survey on Bias and Fairness in Machine Learning. ACM Comput. Surv. 54, 6, Article 115 (July 2022)

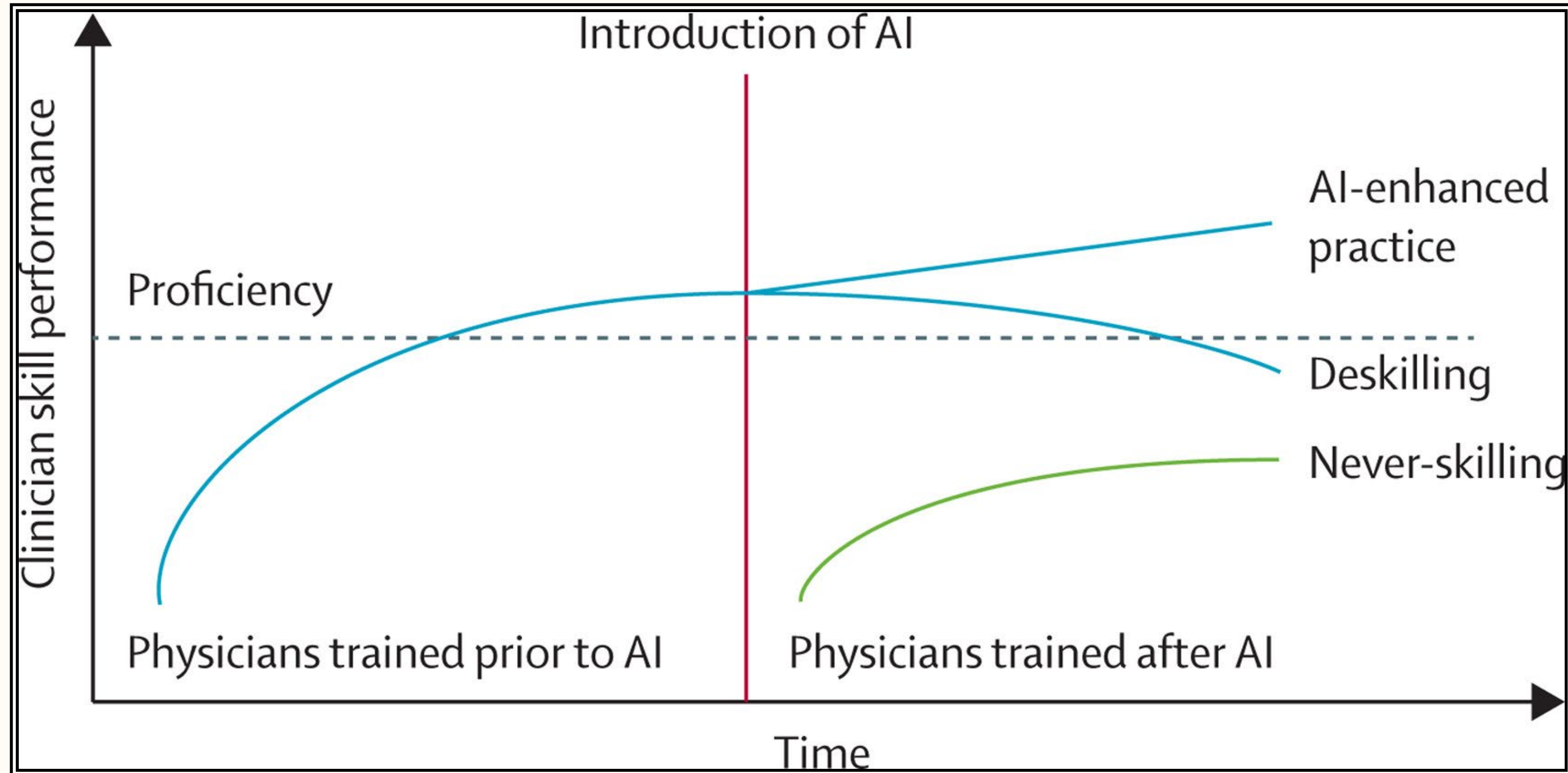
# Transparenz



Seyyed-Kalantari, L., Zhang, H., McDermott, M.B.A. et al. Underdiagnosis bias of artificial intelligence algorithms applied to chest radiographs in under-served patient populations. Nat Med 27, 2176–2182 (2021).

Quelle: Seyyed-Kalantari, L., Zhang, H., McDermott, M.B.A. et al. Underdiagnosis bias of artificial intelligence algorithms applied to chest radiographs in under-served patient populations. Nat Med 27, 2176–2182 (2021).

# Deskilling

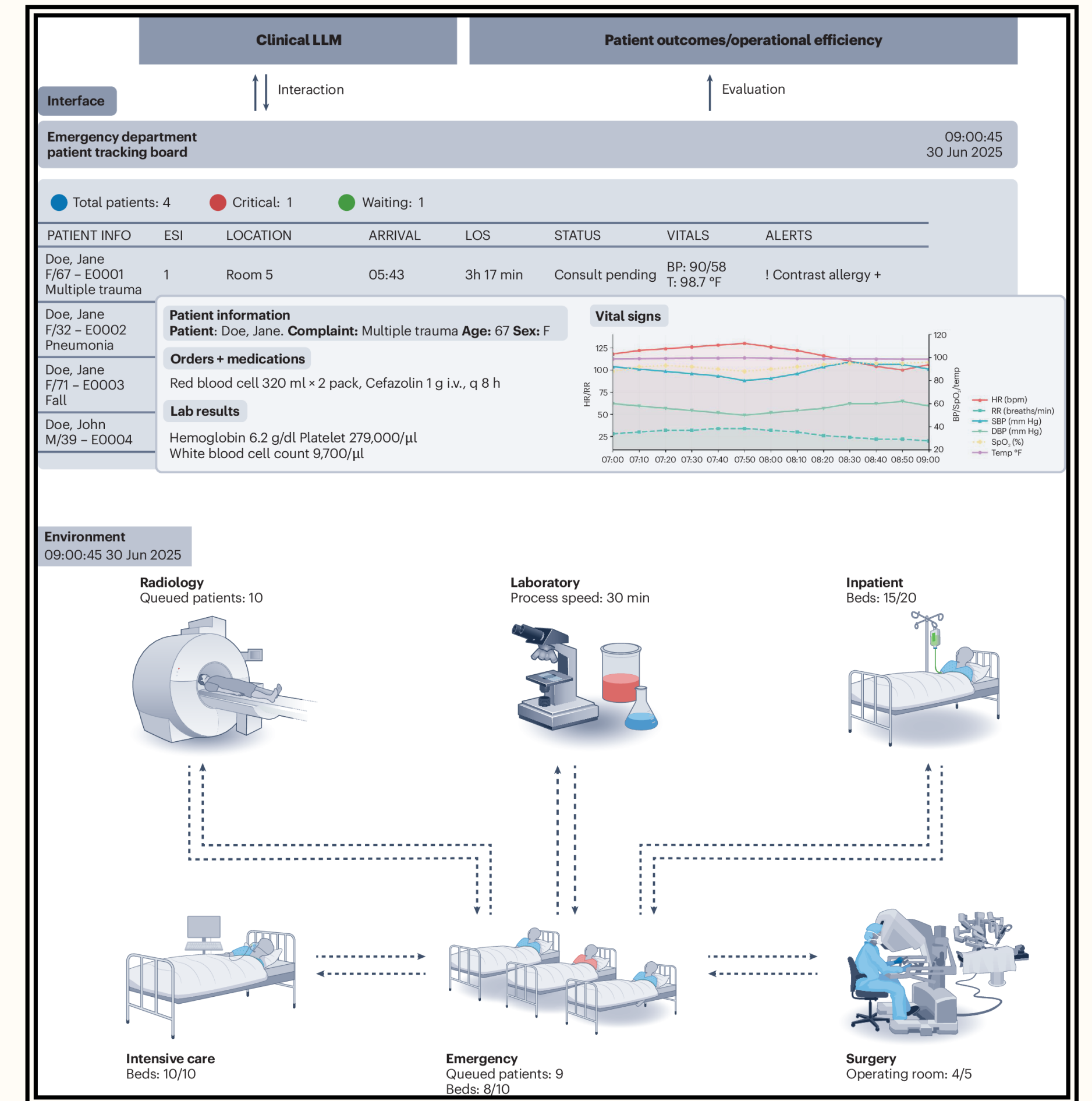


Quelle: Berzin T, Topol E, Preserving clinical skills in the age of AI assistance, The Lancet, 4061719

# Was können wir tun?

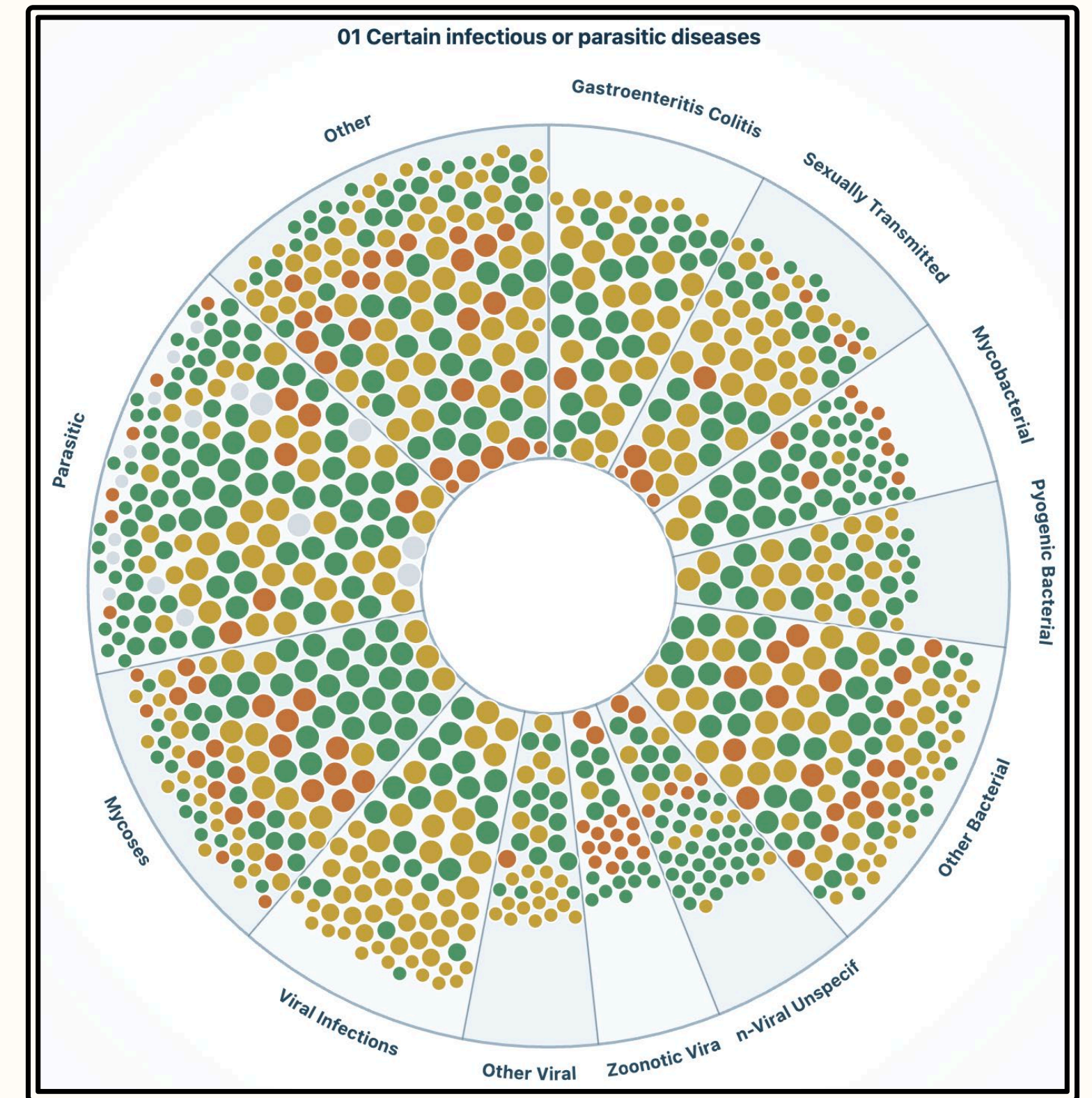
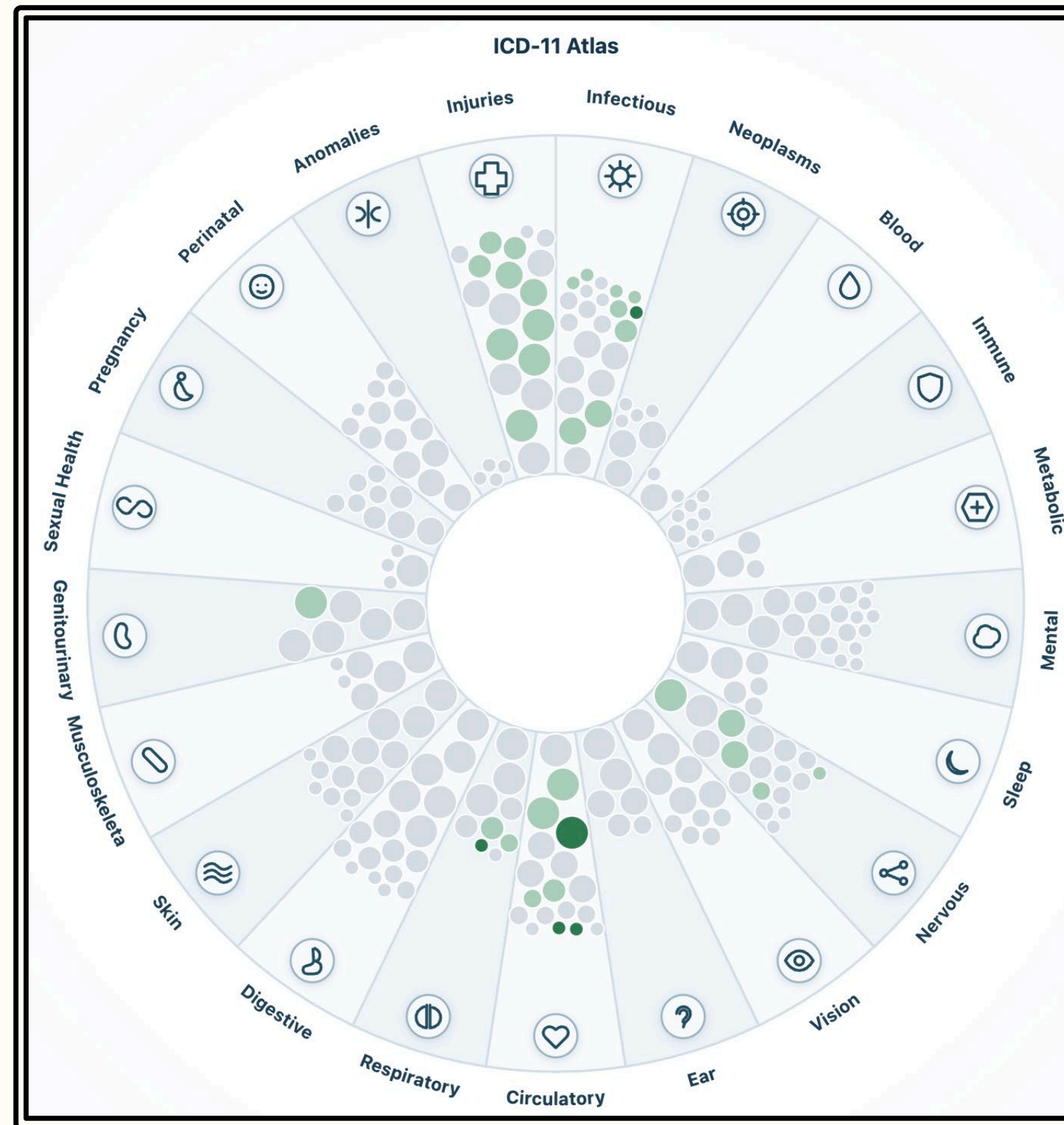
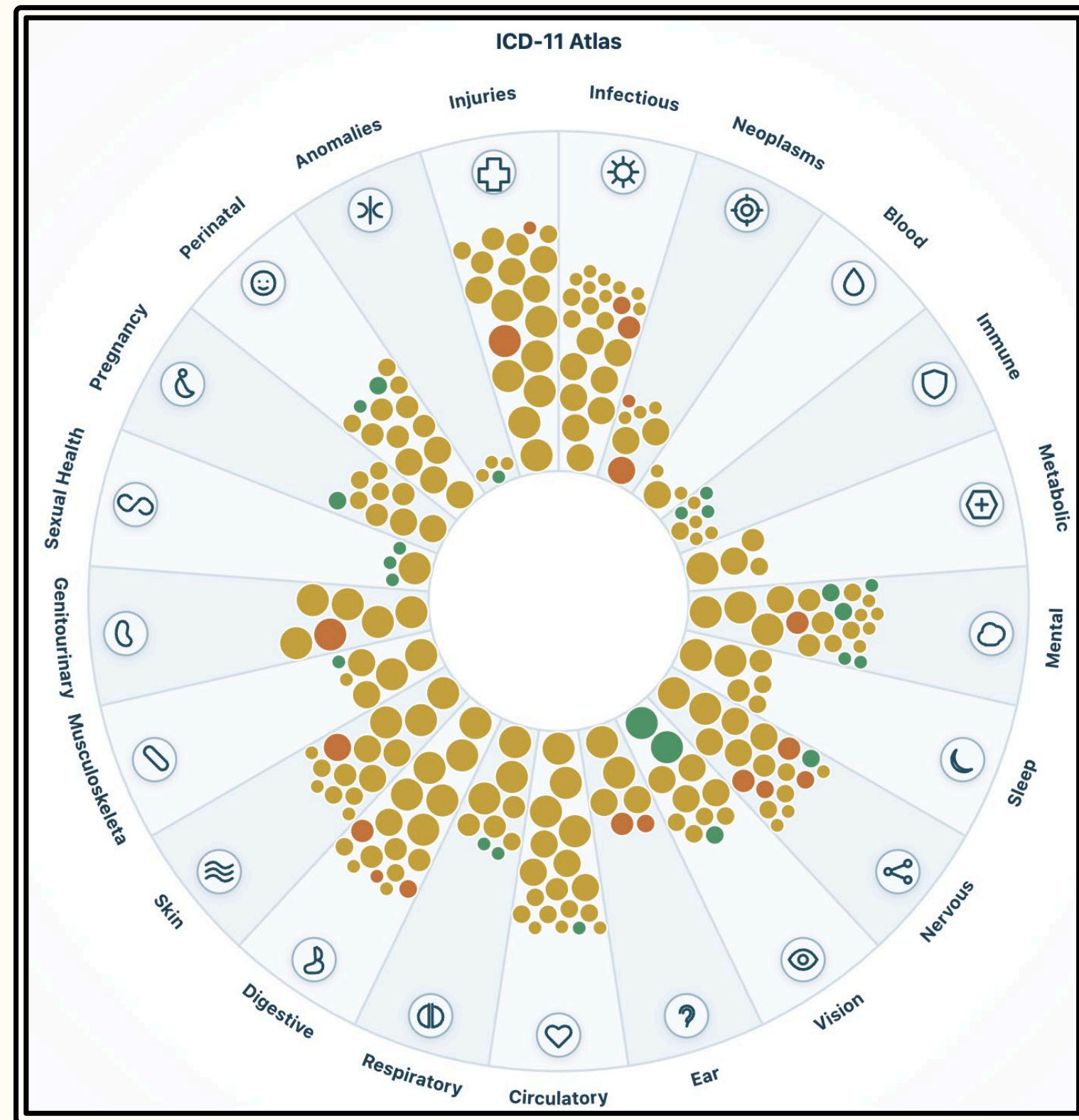
# Schrittweise Evaluation

1. Statische Benchmarks
2. Retrospektive Validierung
3. Statische Vignettstudien
4. Agentenbasierte Aufgaben in virtuellen EHR-Umgebungen\*
5. Dynamische Simulation mit kaskadierenden Entscheidungen\*
6. Prospektive Studien in der realen Welt.
7. Postimplementierungsstudien mit realweltlichen Daten
8. Begleitende ökonomische Evaluation



Quelle: Luo, L., Kim, S.E., Zhang, X. et al. A clinical environment simulator for dynamic AI evaluation. Nat Med 32, 820–827 (2026)

# Performance granular kommunizieren



Quelle: Broad Modelcards (Freyer et al., 2026, under review)

# Klare Guidelines

**ESMO** GOOD SCIENCE BETTER MEDICINE BEST PRACTICE

**ANIMALS OF ONCOLOGY** BRINGING INNOVATION INTO PRACTICE

**SPECIAL ARTICLE**

## ESMO guidance on the use of Large Language Models in Clinical Practice (ELCAP)

E. Y. T. Wong<sup>1†</sup>, L. Verlingue<sup>2†</sup>, M. Aldea<sup>3,4,5†</sup>, M. A. Franzoi<sup>6,7</sup>, R. Umeton<sup>8,9,10,11,12</sup>, S. Halabi<sup>13</sup>, N. Harbeck<sup>14</sup>, A. Indini<sup>15</sup>, A. Prelaj<sup>16</sup>, E. Romano<sup>17</sup>, E. Smyth<sup>18</sup>, I. B. Tan<sup>1</sup>, A. Valachis<sup>19</sup>, J. Vibert<sup>4,20</sup>, I. C. Wiest<sup>21,22</sup>, Y. H. Yang<sup>23</sup>, S. Gilbert<sup>24</sup>, G. Kapetanakis<sup>24</sup>, G. Pentheroudakis<sup>25</sup>, M. Koopman<sup>26†</sup> & J. N. Kather<sup>27,28-†</sup>

<sup>1</sup>Division of Medical Oncology, National Cancer Centre Singapore, Singapore, Singapore; <sup>2</sup>Centre Léon Bérard, Lyon; <sup>3</sup>Department of Medical Oncology, Thoracic Unit, Gustave Roussy, Villejuif; <sup>4</sup>Paris-Saclay University, Paris, France; <sup>5</sup>Lowie Center for Thoracic Oncology, Dana-Farber Cancer Institute, Boston, USA; <sup>6</sup>Cancer Survivorship Group, Inserm Unit 981, Gustave Roussy, Villejuif; <sup>7</sup>IRU PRISM National Precision Medicine Center in Oncology, Gustave Roussy, Villejuif, France; <sup>8</sup>Office of Data Science, St. Jude Children's Research Hospital, Memphis; <sup>9</sup>Departments of Biological Engineering, <sup>10</sup>Mechanical Engineering, Massachusetts Institute of Technology, Cambridge; <sup>11</sup>Department of Biostatistics, Harvard T.H. Chan School of Public Health, Boston; <sup>12</sup>Department of Pathology and Laboratory Medicine, Weill Cornell Medicine, New York; <sup>13</sup>Department of Biostatistics and Bioinformatics, Duke University Medical Center, Durham, USA; <sup>14</sup>Breast Center, Department of OB&GYN and CCC Munich, LMU University Hospital, Munich, Germany; <sup>15</sup>Department of Medical Oncology and Hematology, Fondazione IRCCS—Istituto Nazionale dei Tumori, Milan; <sup>16</sup>AI-ON-Lab, Department of Medical Oncology and Hematology, Fondazione IRCCS—Istituto Nazionale dei Tumori, Milan, Italy; <sup>17</sup>Department of Medical Oncology, Inserm U932, Institut Curie, Paris, France; <sup>18</sup>Oxford NIHR Biomedical Research Centre, Oxford, UK; <sup>19</sup>Department of Oncology, Faculty of Medicine and Health, Örebro University, Örebro, Sweden; <sup>20</sup>Drug Development Department, Gustave Roussy, Villejuif, France; <sup>21</sup>Eise Kroener Fresenius Center for Digital Health, Faculty of Medicine and University Hospital Carl Gustav Carus, TU Dresden University of Technology, Dresden; <sup>22</sup>Department of Medicine II, Medical Faculty Mannheim, Heidelberg University, Mannheim, Germany; <sup>23</sup>National Institute of Cancer Research, National Health Research Institutes, Tainan, Taiwan; <sup>24</sup>ELLOK—Hellenic Cancer Federation, Athens, Greece; <sup>25</sup>ESMO—European Society for Medical Oncology, Lugano, Switzerland; <sup>26</sup>Department of Medical Oncology, UMC—University Medical Center Utrecht, Utrecht University, Utrecht, The Netherlands; <sup>27</sup>Department of Medicine I, University Hospital Dresden, Dresden; <sup>28</sup>Medical Oncology, National Center for Tumor Diseases (NCT), University Hospital Heidelberg, Heidelberg, Germany

Available online 18 October 2025

**Background:** Large language models (LLMs) are rapidly being integrated into health care, with substantial implications for oncology practice. The European Society for Medical Oncology (ESMO) developed the ESMO guidance on the use of Large Language Models in Clinical Practice (ELCAP) to provide a structured framework and basic guidance for their safe and effective application in oncology.

**Patients and methods:** Between November 2024 and February 2025, a multidisciplinary group of 20 experts convened under the ESMO Real World Data and Digital Health Task Force. Using literature review and a Delphi consensus process, the panel defined three categories of LLM use in oncology: type 1 (patient-facing applications), type 2 [health care professional (HCP)-facing applications], and type 3 (background institutional systems). Consensus statements were developed for each type to provide basic practical guidance.

**Results:** ELCAP highlights opportunities such as improved patient education and symptom management, streamlined clinical workflows, and enhanced data processing. At the same time, it addresses challenges including data privacy, algorithmic bias, regulatory compliance, and the risk of unsupervised use. The framework emphasises human oversight, protection of patient privacy, and alignment with clinical and ethical standards. Patient-facing tools should complement, not replace, professional advice and should be embedded in supervised care pathways. HCP-facing and background systems may improve efficiency and decision support but require systematic validation, transparency, and continuous monitoring.

**Conclusions:** ELCAP provides a three-tier framework and basic practical guidance for LLM use in oncology. ESMO supports efforts to use this framework to improve patient care, but warns against unsupervised or unvalidated use.

**Key words:** large language model, AI, clinical decision making

**INTRODUCTION**

Large language models (LLMs) have made enormous technical strides from 2020 to 2025, and their evolution continues at an accelerated pace.<sup>1–3</sup> LLMs are artificial intelligence (AI) tools which perceive and produce natural language. From a technical point of view, LLMs work by

Volume 36 ■ Issue 12 ■ 2025 <https://doi.org/10.1016/j.annonc.2025.09.001> **1447**

Quelle: Wong E, Verlingue L, Aldea M et al., ESMO guidance on the use of Large Language Models in Clinical Practice (ELCAP), Annals of Oncology, 2025; 36, 1447-1457

**RESEARCH METHODS AND REPORTING**

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## FUTURE-AI: international consensus guideline for trustworthy and deployable artificial intelligence in healthcare

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Despite major advances in artificial intelligence (AI) research for healthcare, the deployment and adoption of AI technologies remain limited in clinical practice. This paper describes the FUTURE-AI framework, which provides guidance for the development and deployment of trustworthy AI tools in healthcare. The FUTURE-AI Consortium was founded in 2021 and comprises 117 interdisciplinary experts from 50 countries representing all continents, including AI scientists, clinical researchers, biomedical ethicists, and social scientists. Over a two year period, the FUTURE-AI guideline was established through consensus based on six guiding principles—fairness, universality, traceability, usability, robustness, and explainability. To operationalise trustworthy AI in healthcare, a set of 30 best practices were defined, addressing technical, clinical, socioethical, and legal dimensions. The recommendations cover the entire lifecycle of healthcare AI, from design, development, and validation to regulation, deployment, and monitoring.

**Introduction**

In the field of healthcare, artificial intelligence (AI)—that is, algorithms with the ability to self-learn logic—and data interactions have been increasingly used to develop computer aided models, for example, disease diagnosis, prognosis, prediction of therapy response or survival, and patient stratification.<sup>1</sup> Despite major advances, the deployment and adoption of AI technologies remain limited in real world clinical practice. In recent years, concerns have been raised about the technical, clinical, ethical, and societal risks associated with healthcare AI.<sup>2,3</sup> In particular, existing research has shown that AI tools in healthcare can be prone to errors and patient harm, biases and increased health inequalities, lack of transparency and accountability, as well as data privacy and security breaches.<sup>4–8</sup>

To increase adoption in the real world, it is essential that AI tools are trusted and accepted by patients, clinicians, health organisations, and authorities. However, there is an absence of clear, widely accepted guidelines on how healthcare AI tools should be designed, developed, evaluated, and deployed to be trustworthy—that is, technically robust, clinically safe,

**SUMMARY POINTS**

Despite major advances in medical artificial intelligence (AI) research, clinical adoption of emerging AI solutions remains challenging owing to limited trust and ethical concerns

The FUTURE-AI Consortium unites 117 experts from 50 countries to define international guidelines for trustworthy healthcare AI

The FUTURE-AI framework is structured around six guiding principles: fairness, universality, traceability, usability, robustness, and explainability

The guideline addresses the entire AI lifecycle, from design and development to validation and deployment, ensuring alignment with real world needs and ethical requirements

The framework includes 30 detailed recommendations for building trustworthy and deployable AI systems, emphasising multistakeholder collaboration

Continuous risk assessment and mitigation are fundamental, addressing biases, data variations, and evolving challenges during the AI lifecycle

FUTURE-AI is designed as a dynamic framework, which will evolve with technological advancements and stakeholder feedback

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Quelle: BMJ 2025;388:e081554

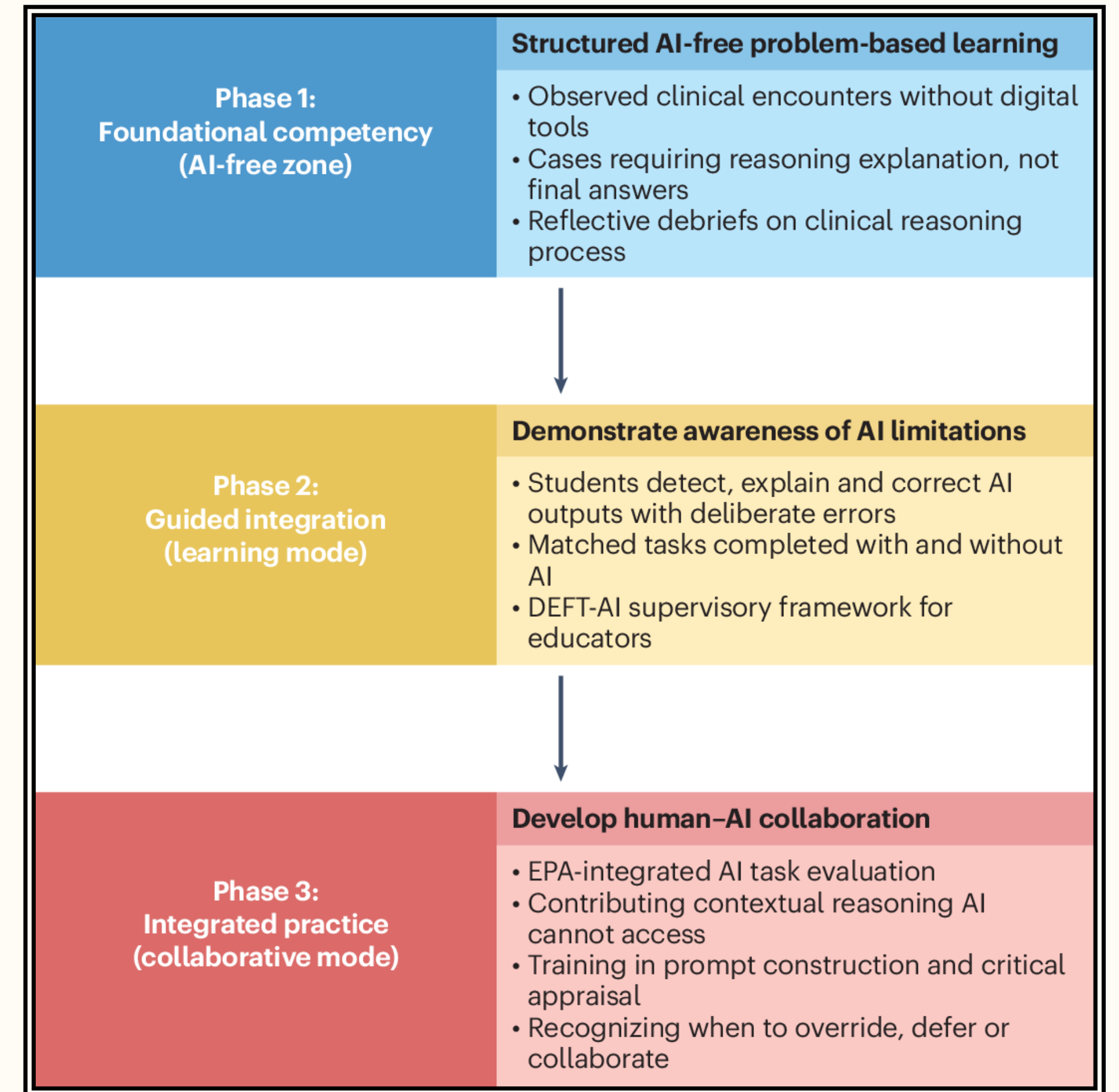
Quelle: NHS, <https://www.england.nhs.uk/long-read/guidance-on-the-use-of-ai-enabled-ambient-scribing-products-in-health-and-care-settings>

Healthcare Organizations on the Use of Generative Artificial Intelligence in Medicine: A Position Statement from the Society of General Internal Medicine. *J GEN INTERN MED* 40, 694–702 (2025).

# Gutes Training

*“KI kann uns nicht das Verstehen  
abnehmen”*

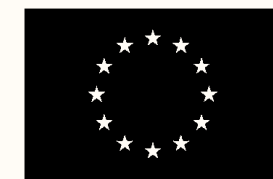
- Andrej Karpathy



Quelle: Ke, Y., Jin, L., Ong, J.C.L. et al. AI-induced never-skilling in medical education. Nat Med 32, 1997–2006 (2026).

**KI hat großes Potential in der Routineversorgung - ihre neurtigen Risiken müssen aber noch adressiert werden.**

Ende.



# Fragen?

