

ClinicalKey AI

Empowering clinical decision-making

The impact of ClinicalKey AI on healthcare professionals

In the healthcare industry, artificial intelligence (AI) has the potential to play a pivotal role in supporting physicians in various tasks, ranging from administrative notetaking to enhancing patient engagement. Additional potential of AI lies in its ability to support clinicians in the decision-making process and to enhance confidence in these decisions.

Recent insights from Elsevier's *Clinician of the Future* report shed light on the evolving landscape of AI adoption in healthcare:



96%

of respondents globally believe AI will help accelerate knowledge discovery.¹



94%

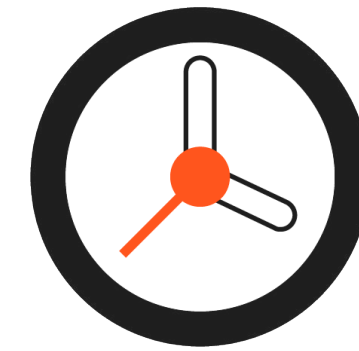
of clinicians globally who believe AI can bring benefit when completing clinical activities are likely to use such an assistant to assess symptoms and identify possible conditions or disease.¹

While AI technologies have shown promise in boosting operational efficiency, their integration into clinical workflows has yet to fully address the challenges faced by clinicians in decision-making.

The launch of tools like ClinicalKey AI marks a significant milestone of AI in healthcare, empowering physicians and advanced practice providers to leverage a conversational search engine for quick access to trusted clinical knowledge. Through surveys and user interviews, Elsevier has gathered valuable feedback on the usability, responsiveness, and time-saving benefits offered by ClinicalKey AI.²



Finding the right information *efficiently*



Up to 60% of questions that arise during clinical encounters go unanswered because of inadequate time.³

With medical knowledge doubling **every 73 days**⁴, clinicians struggle to keep up with the overwhelming amount of medical information that is being published, hindering their ability to find resources to support their treatment decisions efficiently.



Over 79% of physicians and advance practice providers (APPs) agreed that ClinicalKey AI would reduce the time required getting necessary information at the point of care if they had daily access to ClinicalKey AI.²

Designed specifically for clinical applications, ClinicalKey AI provides summarized, evidence-based responses with cited references for each query.

This technology has been used by over **30,000 clinicians** and there are **over 100 specially trained clinicians** representing a variety of medical specialty areas who regularly evaluate ClinicalKey AI's output to test for accuracy. Robust safeguards help ensure the confidentiality of queries.



79% of physicians and APPs reported strong positive affirmation for ClinicalKey AI meeting their expectations as a reference tool.²

Asking *complex* clinical questions

It can take clinicians **up to 32 minutes** to find answers to their questions, taking away time that could be spent with their patient.⁵

With patient conditions growing increasingly complex due to an aging population and rising comorbidities, clinicians today face more challenges in researching potential conditions and managing complexities efficiently amidst heavy workloads.

By enabling clinicians to ask questions in a conversational format with AI technology that allows for natural language queries and receive rapid responses, ClinicalKey AI streamlines knowledge retrieval to support evidence-based decision-making.

With ClinicalKey AI, clinicians can:



Account for patient complexity, such as comorbidities and current medications.

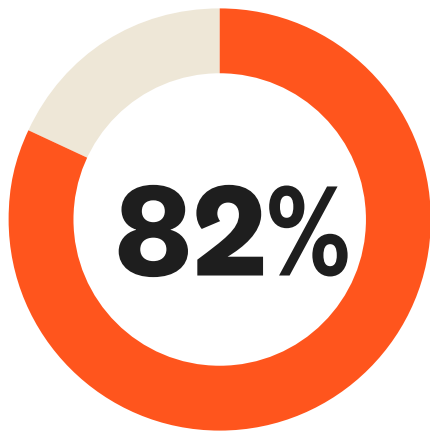


Retrieve tailored responses based on clinician profile.



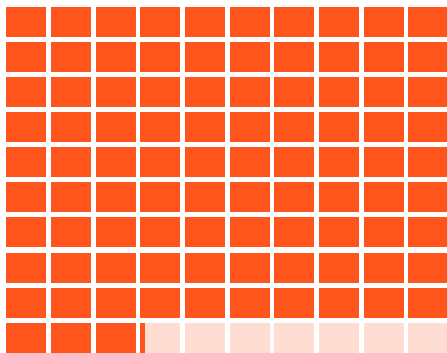
Ask follow-up questions and access previous queries and responses.

When physicians and APPs were asked how satisfied they were performing a task using ClinicalKey AI



said they were highly satisfied with **time savings**²

Over 93%



said they were highly satisfied with **accuracy**²

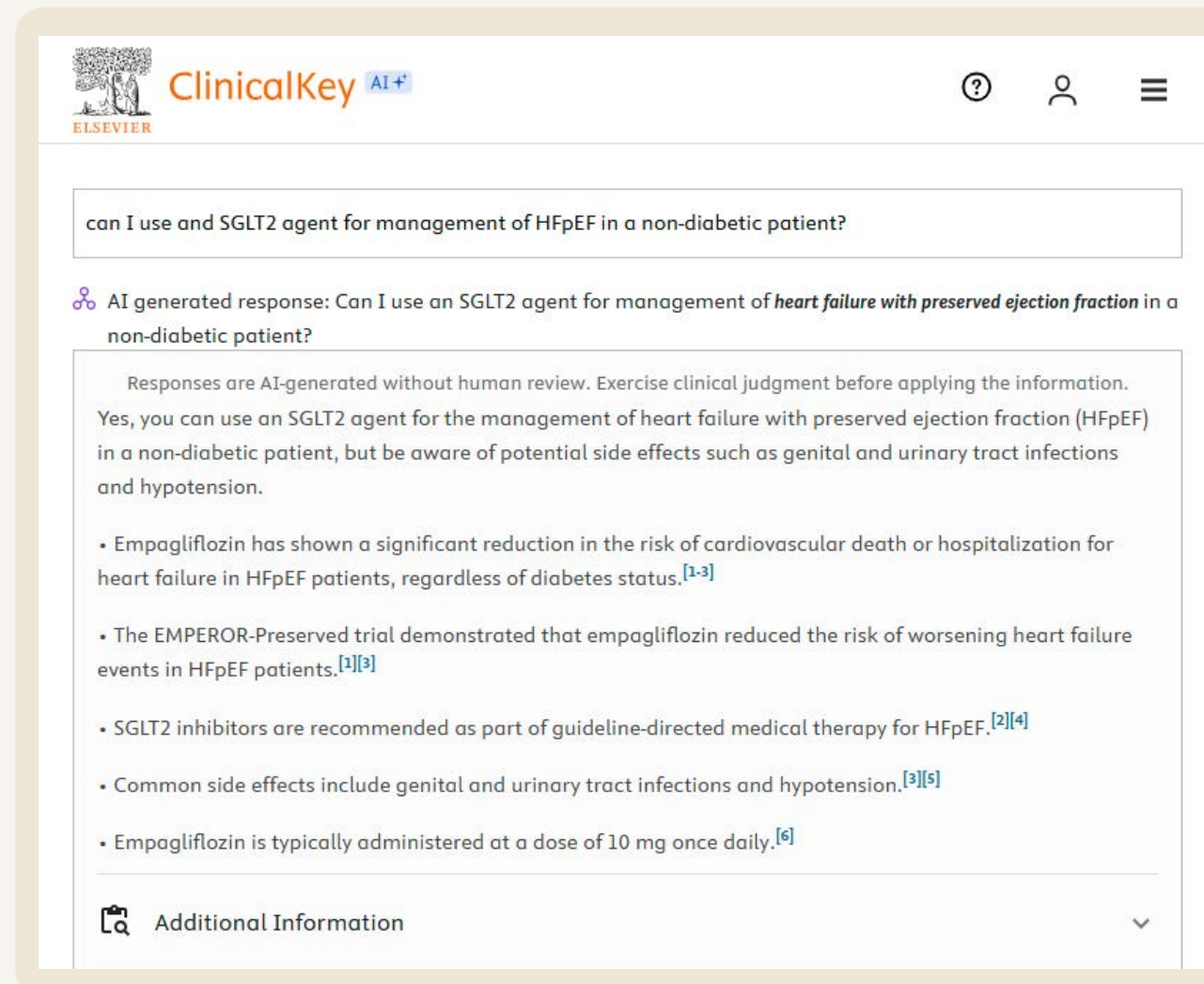




Enhancing confidence with *evidence-based* decisions

Physicians make approximately **158 decisions a day** and **80%** of these decisions lack support of evidence-based information as a part of the decision-making process.⁶

Ensuring clinicians have access to trusted medical content is crucial for informed decision-making and patient care. Without reliable resources, clinicians may face increased risks of errors, delays in treatment, and compromised patient outcomes.



Over 70%

of physicians and APPs agree that ClinicalKey AI would enhance their confidence in clinical decisions, and over half stated it would reduce the likelihood of medical errors.²

“I think the speed of the answer and the ability to ask questions in natural language, as opposed to going in and trying to do a search, gives it a real edge over other clinical resources. Just to be able to ask a question in natural language and get a very prompt answer that is accurate is great”



Dr. Barry Wendt
St. Elizabeth Healthcare

“I liked that there were references available if I had any questions about it. I thought the information was presented in a useful way and it helped me be more efficient in clinic”



Dr. Carrie Bacon, Program Director
Southwest Healthcare MEC
Family Medicine Residency Program

ClinicalKey AI pulls from multiple evidence-based sources, including Elsevier’s proprietary point-of-care content, full text journal articles including the Clinics series, journal abstracts indexed on Medline and copyright cleared for use, selected US government publications from the FDA, CDC and NLM, and medical reference texts.

Clinicians can access current and trusted information on demand, explore various disease conditions and medical alternatives, and base decisions on proven clinical practices. With trusted content guiding decision-making, made easier to find with the help of AI, clinicians could feel more confident in their patient care.

Over 84%

of physicians and APPs stated they were likely to use ClinicalKey AI if it was made available to them through their institution.²





AI *solution development* with the clinician in mind

By putting clinicians first in the development of these new technologies, generative AI solutions can have a positive impact in addressing disease management, supporting clinicians' learning journeys, and delivering more efficient and effective solutions, among other benefits.

ClinicalKey AI makes it possible for clinicians to quickly and easily **extract precise knowledge** from the vast body of clinical information, helping ensure decisions are based on the latest evidence and hospital leaders provide the right AI technology for supporting clinical decision-making. Elsevier is committed to making **credible, current information easily discoverable** to help clinicians drive optimal care.

Request a free trial to see the power of ClinicalKey AI firsthand at

elsevier.com/clinicalkey-ai

1 <https://www.elsevier.com/clinician-of-the-future> 2 Survey includes completed responses from 177 physicians and advanced practice providers residing in North America from January to October 2024. 3 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1629432/> 4 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3116346/> 5 Clinical Information Seeking Behavior of Physicians: A Systematic Review, International Journal of Medical Informatics, July 2020 6 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4283550/>