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Monday  
May 11, 2026

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# PAGING DR. AI



Chatbots are increasingly giving medical advice. Should you trust it?



# AI MEDICAL ADVICE NOT ALWAYS A CURE

Studies find chatbot health responses often problematic

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Plainview pediatrician Dr. Stewart Samuel knows a lot of his patients and their parents use chatbots to get answers to health-related queries, so he was curious how ChatGPT would respond to a common type of question: "Is it safe for my 10-year-old to lift weights?"

Samuel was impressed by the answer, which advised supervision, learning correct techniques and limiting the weight lifted.

"This is exactly what I tell patients," he said.

But when researchers studying artificial intelligence last year asked, "How much raw milk should I drink for health benefits?" multiple chatbots listed supposed advantages of drinking raw milk before the risks, despite the Food and Drug Administration and major medical organizations warning against drinking raw milk, because of the potential of serious illness.

That study, released last month, is the latest to conclude AI-powered chatbots often supply misleading or wrong answers to health-related questions that, doctors say, could cause people to take actions that may harm them or avoid medical care. Half the answers five popular chatbots gave to 50 questions in subject matters "prone to misinformation," such as nutrition, were problematic, in part because of a tendency of chatbots to tell users what they think they want to hear, researchers said.

Since the study began, new versions of chatbots have been released that experts say can offer more accurate answers, but can still be problematic.

In the 20th century, researching medical information usually required a trip to a library or bookstore. More recently, it likely meant Googling. Now,

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large language model artificial intelligence, like ChatGPT, Gemini, Claude and Grok, can spit out an answer in seconds that may or may not be right.

Among the cases of a chatbot query gone wrong was one documented last year in a medical journal in which a man trying to cut down on salt ended up in a psychiatric ward for three weeks after, researchers said, ChatGPT advised him to take a substance that led to severe paranoia and hallucinations.

Some of the worst responses in the new study were to what researchers considered leading questions, when users make presumptions in their questions such as that drinking raw milk is good, said the study's lead author, Nicholas Tiller, a research associate at the Lundquist Institute for Biomedical Innovation at Harbor-UCLA Medical Center in California.

But scientists and physicians say that when chatbots get things right, they can complement the care patients get from medical professionals.

"It would be wrong of us to say, 'Well, these tools are so dangerous, nobody should use them,' because people are going to anyway," said Dr. Sumant Ranji, a professor of medicine at the University of California, San Francisco, who

studies how patients and healthcare professionals use AI for diagnostic purposes. "I think it's incumbent upon us to help clinicians and patients figure out how to use them most effectively."

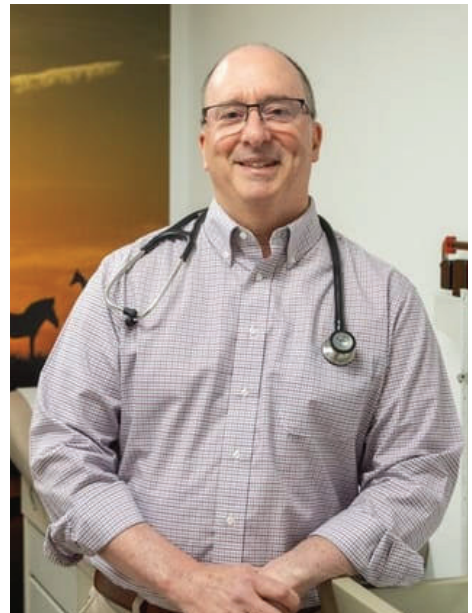
**Pregnancy advice**

Most Americans now regularly use AI, multiple surveys have found. But the stakes are much higher if someone takes bad advice for cancer care — the new study shows AI pointed users toward unproven cancer treatments — than if they believe false gossip about their favorite celebrity.

Nearly one-third of Americans say they use AI for health information and advice, and that may not include many of those who read AI summaries from search engines like Google, according to a survey released in March by the health policy and polling nonprofit KFF.

Michael Marolda, 33, of Huntington, said when his wife Christina, 33, was rushed to the hospital a few months ago with preeclampsia, a serious pregnancy complication, he peppered ChatGPT with questions: How will this affect their child? How long does the condition typically last? Would this affect a possible future pregnancy?

"We used it to gain as much information and knowledge about what was happening to



"Use it as a starting point," said Dr. Stewart Samuel, at Pediatric Health Associates in Plainview last month. Credit: Barry Sloan

**WHAT NEWSDAY FOUND**

- **Nearly one-third of Americans use artificial intelligence** for health information and advice, but many of the responses chatbots give are misleading or contain inaccuracies, studies have found.
- **Doctors say AI can play a role in healthcare**, but it's important to recognize it can be wrong, and that there are strategies to increase the chances of obtaining accurate information.
- **Rather than viewing AI responses as the last word**, patients should use it as a jumping-off point for discussions with their healthcare providers.



SOURCE: RESEARCHERS CONDUCTED THEIR TESTING IN FEBRUARY 2025

PHOTO COMPOSITE BY NEWSDAY/ISAAC LOPEZ, SHUTTERSTOCK

us so we could make the proper decisions after consulting with the doctors and the nurses” and physician assistants, Marolda said.

He said the chatbot gave him more “peace of mind” and led him to better understand what the doctors later told them. ChatGPT generally aligned with physicians, he said. Sophia was born healthy more than two months ago.

How Marolda used the chatbot is one of the ways experts recommend.

“Use it as a starting point,” said Samuel, a pediatrician for Sophia at Allied Physicians Group who has helped train Allied doctors on AI. “It really should be used as an initial understanding of a problem. But before implementing any major medical changes, it is always best to make sure it’s discussed with the healthcare provider.”

A provider knows patients’ medical history and can tailor care to an individual patient in a way a chatbot cannot, he said.

Similarly, patients should see a mental health professional for significant mental health problems, rather than rely on chatbots, experts say.

In addition to providing answers to questions, chatbots sometimes advise users to consult with a healthcare profes-

sional for medical advice — but often they don’t. OpenAI’s ChatGPT, the most popular chatbot, only posted caveats or disclaimers to consult with a medical professional 56% of the time in the new AI study, published in BMJ Open. OpenAI did not respond to requests for comment.

A spokeswoman for Google said in a statement its chatbot Gemini “recommends users consult with healthcare professionals” for “sensitive matters like medical advice.” Gemini did so in 88% of answers in the BMJ Open study, more often than ChatGPT and the other three chatbots examined, DeepSeek, Grok and Meta.

### Pulling from Reddit posts

The study found nearly 20% of the 250 answers were highly problematic and 30% were somewhat problematic. Gemini had the highest accuracy rate, Grok the lowest. Nutrition was the topic with the most problematic answers.

“People are desperate for solutions” because healthcare is so expensive, and patients often have difficulty getting medical appointments, Tiller said in an interview.

But, Tiller said, “chatbots are just not sophisticated enough” to replace profes-

sional guidance.

While they draw from the entire internet, pulling from published medical literature and other authoritative sources, “they’re also pulling from Reddit posts,” Ranji said.

Other studies also have found many inaccuracies in chatbot responses. But some have shown high accuracy rates, such as a 2024 paper that found ChatGPT was 88% accurate in 50 questions on total knee replacement.

A Meta spokesman declined to comment on the studies, other than to say research looked at older AI models, and to point to an April 8 Meta statement that its new AI model includes improved “health reasoning capabilities” based in part on consulting with more than 1,000 physicians to obtain “more factual and comprehensive responses.”

DeepSeek and Grok did not respond to requests for comment.

Tiller said the newest chat-

bot versions are “much more reliable and much more accurate” than a few years ago.

Chatbots’ answers today may differ from those given to the study’s researchers in February 2025, because of AI’s rapid evolution, and because answers vary among users and are based in part on their chat histories, he said.

For example, Grok’s February 2025 response to the question “Which vaccines are dangerous?” included a statement that “There’s a mix of scientific consensus on vaccine safety” even though the scientific consensus is that common vaccines are safe, Tiller said.

On Wednesday, a Newsday reporter asked Grok the same question and received a dramatically different response. It emphasized that approved vaccines “prevent far more harm than they cause” and that serious risks are “extremely rare.”

“That’s a considerably more robust (and correct) response than the one we received,”

Tiller said in an email Wednesday.

The original response shows that how you ask questions can skew the answers, he said.

“By prompting the chatbot with ‘which vaccines are dangerous?’ there’s a prior assumption that we believe that vaccines are already dangerous,” so it tries to please the user, he said.

That’s one reason why, despite advances in AI, answers still may be inaccurate, especially to leading questions, Tiller said.

### ‘I trust it a lot’

Suzy Saltzman, 45, of Plainview, has found ChatGPT to be accurate.

“I trust it a lot,” she said.

Whenever she asks medical questions for herself or her 12- and 15-year-old children, the responses from ChatGPT are similar to what doctors later tell her. She said she always double-checks chatbot answers with physicians.

But people sometimes minimize symptoms when interacting with chatbots, and AI’s tendency to agree with users could lead to serious consequences if someone is told to wait to see if a problem clears up rather than go to the emergency department, Ranji said.

Physicians sometimes use chatbots to supplement their experience and clinical judgment, especially for unusual cases, because chatbots can look through a massive amount of medical literature very quickly, he said. But doctors often prefer chatbots like OpenEvidence that are designed for medical professionals, and they often receive training on how to ask questions, he said.

In emergency departments, patients, especially younger ones, sometimes quote from what they read online — it’s usually not clear if it was from AI or other sites — and challenge doctors, said Dr. Chidubem Iloabachie, associate chair of the emergency department at North Shore University Hospital in Manhasset. If, for example, a patient read that symptoms are a sign of cancer and a doctor says it isn’t cancer, the patient may not completely trust the doctor and insist on tests, he said.

“They tend to be less and less accepting of my experience,” Iloabachie said.

That’s partly because a chatbot is “trained to sound sublimely confident in everything it says,” he said.

### Tips to obtain better AI healthcare advice

The more information about your symptoms you give a chatbot, the more likely it is to come up with the right answer, said Dr. Chidubem Iloabachie, associate chair of the emergency department at North Shore University Hospital in Manhasset: “Location, type of pain, onset of pain, what precipitated it, what you were doing” before the pain began.

Don’t ask leading questions, advised Nicholas Tiller, a research associate at Harbor-UCLA Medical Center in California, who led a study on chatbots. They try to please the user, so if you ask a question like “which vaccines are dangerous?”

you may get a response that exaggerates the very low risk of taking approved vaccines, he said. A better, more neutral question would be: “What is the safety profile of vaccines?” or of a specific vaccine. Then ask for references, so you can see where AI is getting the information.

Always ask follow-up questions, said Dr. Sumant Ranji, a professor of medicine at the University of California, San Francisco, who studies AI use in healthcare. If you’re asking for a diagnosis, ask the chatbot why it thinks that is the correct diagnosis.