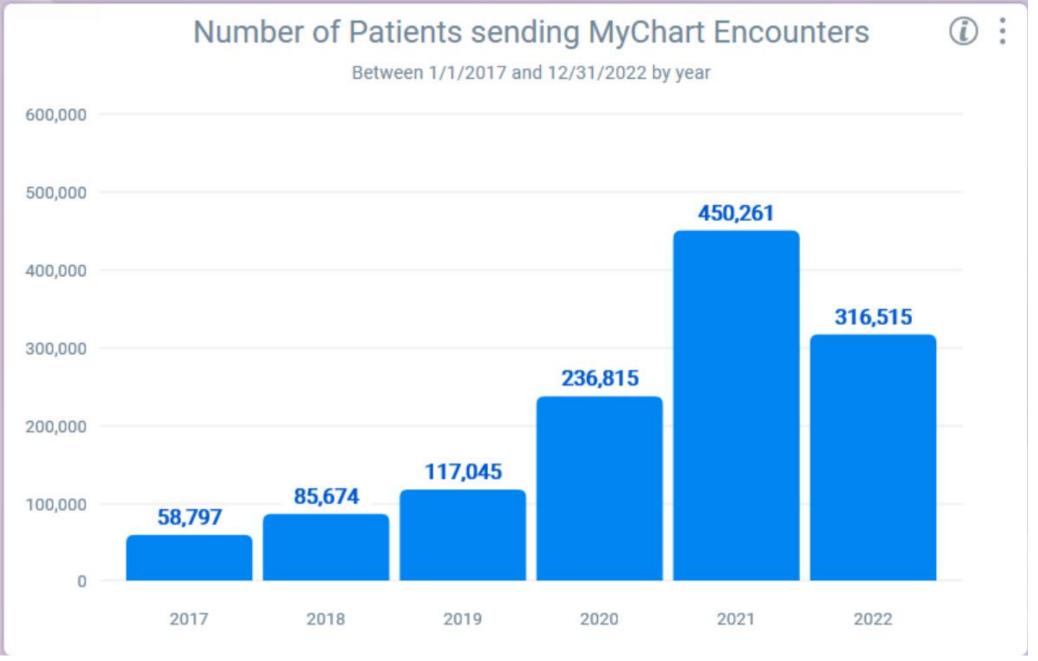
### UC San Diego Health

### **GPT in Epic: Pilot Overview**

Marlene Millen, MD, Ambulatory Chief Medical Information Officer



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## Solving a Real-World Problem



Are Doctors Drowning in Inbox Overload?

— The slow simmer of non-stop messaging boils over during the pandemic

by Sophie Putka, Enterprise & Investigative Writer, MedPage Today September 22, 2021



- 1. Implement standard workflows for message routin
- 2. Decide which team members should be responsible
- 3. Create filters to separate inbox signal from noise

## MyChart Messages the Wild West of Patient Communication

OCTOBER 2, 2021 BY BRYAN VARTABEDIAN - READING TIME: 6 MINUTES



Laura Dyrda (Twitter) - Friday, November 18th, 2022



Cleveland Clinic's plan to charge for MyChart messages requiring clinician time and expertise has been met with mixed reviews from physicians and patients.

Cleveland Clinic began charging for messages requiring clinicians to make clinical assessments, Medical decisions or medical history reviews that would take more than five minutes. The charges are often covered by insurers, but patients face up to \$50 charges without coverage.

Medicare patients without secondary insurance may see \$3 to \$8 fees, according to Cleveland Niedicare patients without secondary insurance may see 30 to 30 rees, according to oneverand Clinic. The new fees went into effect Nov. 17. Some physicians and patients support the charges

"I don't think that it's fair to be charged just for communication, especially with all the other things If don't think that it's fair to be charged just for communication, especially with all the other things we already have to pay for," Kya Perry, a Cleveland Clinic patient, told public radio station WKSU.

"It sounds silly to me that you would have to be charged to use an app." Another patient, Brynna Fish, told cleveland.com she was initially annoyed by the charges but then

realized she was getting the same information she would get during a billed telehealth visit.

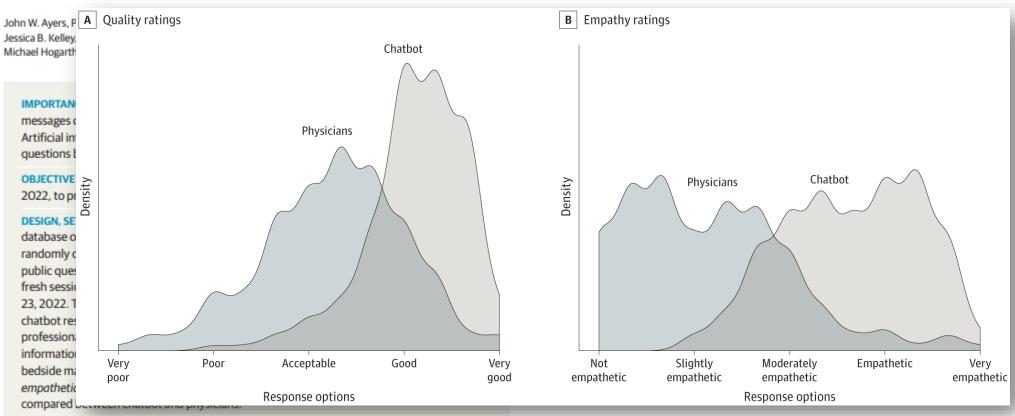
"I'm asking a question related to my health or a medication and the doctor is answering me; it "I'm asking a question related to my nearth or a medication and the doctor is answering me, it seems to me totally legitimate to bill," she said. "It's actually saving money because I don't have to make an appointment and go in and discuss this certain thing with the doctor."

### JAMA Internal Medicine (accepted Feb, published April 2022)

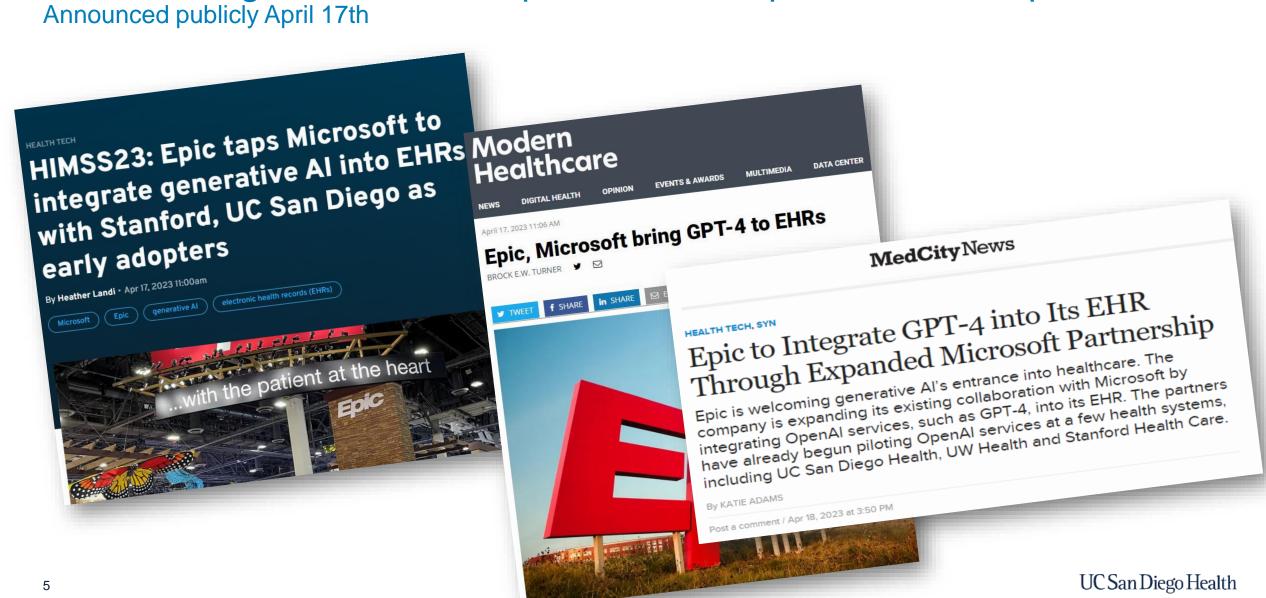


JAMA Internal Medicine | Original Investigation

### Comparing Physician and Artificial Intelligence Chatbot Responses to Patient Questions Posted to a Public Social Media Forum



# UC San Diego Health GPT Epic Pilot live in production on April 14<sup>th</sup> Announced publicly April 17th



### Generated Draft Reply MyChart Pilot

**What:** MyChart Messages

Who: Pilot then trial with Physicians to see if helps with wellness

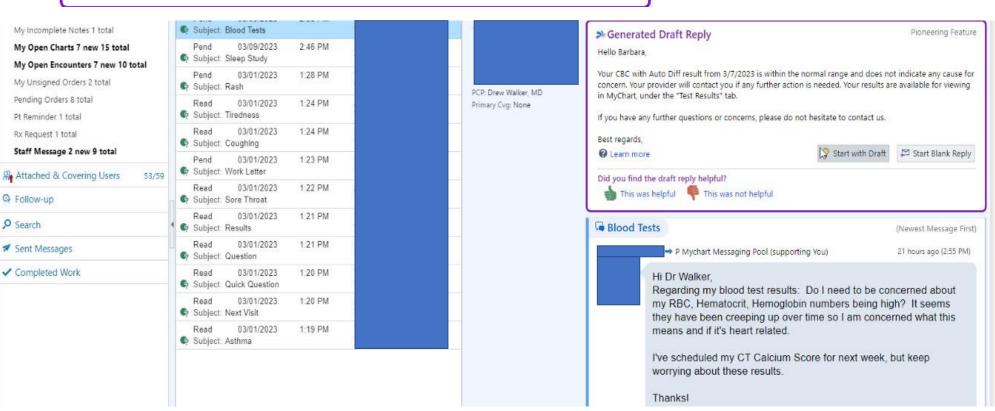
<u>How:</u> Using AI through Microsoft Azure to look at information in patients' chart and uses a prompt to generate a draft reply that requires editing prior to sending to patient.

When: Ongoing with 16 doctors- expansion date 6/26/23

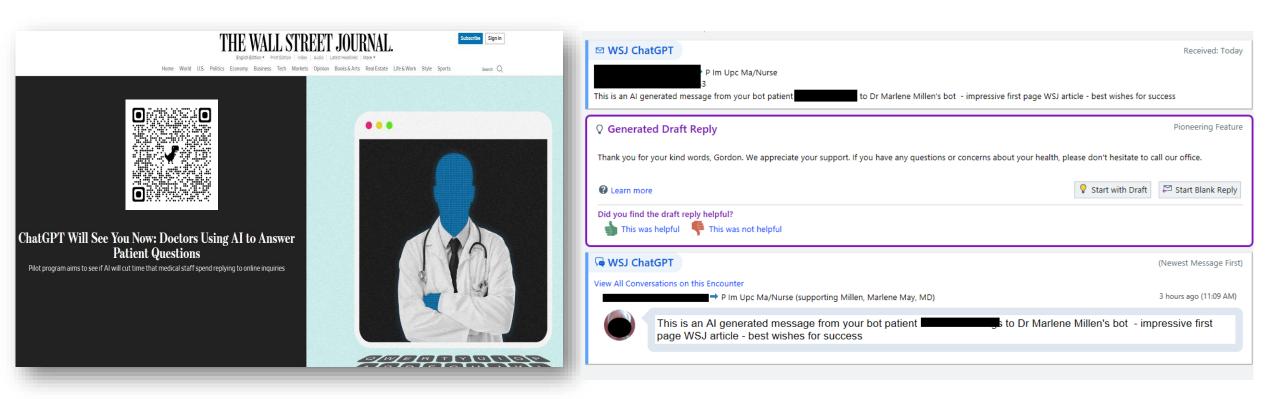
### **Categories Of Responses**

- Refills
- Results
- Paperwork
- General Questions





### Early Results - Examples



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### Early Results - Anecdotes

- Working better for PCP's than for specialists
- Sign off signature automated based on who is sending reply rather than who received it
- Request for a template for messages that do not meet criteria to help speed up reply
- Patients are receptive We include a line in each generated reply:

"This message was automatically generated and edited by @me@"

@me@ brings in who is editing and sending the message

### Next Steps

- GPT4 start date June 15
- Pilot expansion to primary care June 27, 2023 with trial to see outcomes in time and burnout
- Continue to get feedback from providers, patients
- Al governance in patient care
- Cost for the Review of the patient data through Microsoft