

Clinical Instruction Dataset

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Background:

We want to better understand how useful Large Language Models (LLMs) like ChatGPT could be for clinicians when connected to EHR data. The best way to test what a LLM can do is to give it assignments to complete, which we term "instructions". Because LLMs can do many things, we need to test it with many instructions (think hundreds or thousands). And because we're interested in how well LLMs could support clinicians, we need instructions that are clinically meaningful. The only people who know what is clinically useful are the providers who use the EHR to deliver care -- you!

We're asking you to help us generate clinically meaningful instructions for an EHR-augmented LLM.

Imagine a perfect LLM -- what kinds of tasks would you give to this AI assistant to make your work easier, faster, and less stressful?

Think about your routine:

- What EHR information do you look for at the start, middle, and end of a patient visit?
- What questions do you ask as part of patient handoffs, admissions, or discharges?
- What do you search for online to assist with patient care?

Examples:

- **Question:** What treatment was administered to the patient for pneumonia?
- **Instruction:** Briefly summarize the patient's chief complaint and relevant test results.
- **Question:** Has this patient ever had any difficulties being intubated?
- **Instruction:** List out all medical problems mentioned in the HPI.
- **Instruction:** Give me drug names/dosages for all meds the pt is no longer taking.
- **Question:** Based on the patient's vital signs, is there evidence of sepsis?
- **Question:** How has the patient's weight changed over the last two years?

If you write multiple instructions, please try to vary the verbiage. Here are three examples of writing the same instruction in a different way to demonstrate the desired variety.

- What treatment was administered to the patient for pneumonia?
- Give the treatment that was administered for pneumonia.
- Identify what was used to treat the patient's pneumonia.

More clinical scenarios to consider given your specific routine:

Inpatient Doctors:

- What do you consider when writing a handoff for night team?
- What do you review to see what happened overnight?



- With a new patient, what do you ask about to understand their history?
- You are concerned that a patient has a certain issue, what is the next step?
- A patient is being admitted, what are 10 questions you would ask?
- A patient has been in hospital for 2 days, what do you check for?
- A patient is being discharged for a particular issue, what do you look for to evaluate their readiness?


Outpatient Doctors:

- For annual visits, how do you review their chart for current issues?
- How do you analyze the trends of their current issues?
- What does this patient still need, what is the health maintenance for their disease?

Surgeon:

- When preparing for surgery, what do you look for to see if this patient gave appropriate consent?
- How do you determine if they have issues that make them higher risk during surgery?
- Do they have history of complications with anesthetic?
- How do you determine how long they will stay post op?
- What signs of complications do you look out for?
- What is the criteria for going home?

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* Indicates required question

Email *

Your email



If you completed the google sheet, paste the link below. Ensure edit permissions are on.

Your answer

Instruction or Question 1 *

Your answer



What part(s) of the EHR would you reference to complete the request? (Select up to 3) *

- ☐ Notes
- ☐ Problem List and Past Medical History
- ☐ Medication List
- ☐ Medication Administration Record (MAR)
- ☐ Non-medication Orders/Referrals
- ☐ Lab Results
- ☐ Imaging Results
- ☐ Vitals
- ☐ Social History, Social Determinants of Health, Health-Related Behaviors
- ☐ Family History
- ☐ Treatment Plan/Care Plan
- ☐ Encounters
- ☐ Messages
- ☐ Care Team
- ☐ Preventative Care details
- ☐ Scanned records/reports
- ☐ Other:

In which clinical context would you most likely use this instruction/question? (e.g., deciding whether to use contrast in a CT scan, answering a patient's MyHealth message, drafting post-op discharge instructions) *

Your answer



Is this instruction applicable to all patients generally or only to patients with certain diseases/treatments/clinical characteristics? *

- ☐ Patients generally
- ☐ Patients with a certain disease/treatment/clinical characteristic

If applicable, what are those specific diseases, treatments, and/or other clinical characteristics?

Your answer

Do you want to submit another instruction? *

- ☐ Yes
- ☐ No

Next

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