

CHATGPT'S PERFORMANCE AND PHARMACEUTICAL INTERVENTION IN DOSING HIGH-RISK MEDICATIONS IN THE OPERATING ROOM

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AIM AND OBJECTIVES

Evaluate the ability of ChatGPT-4.0 to answer questions about dosing high-risk medications in the operating room, comparing different techniques with or without pharmaceutical intervention.



MATERIALS AND METHODS

A list of **high-risk medications** used in the operating room was selected, and ChatGPT's responses were evaluated as follows:

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Model with prompt
 According to anesthesia and pharmacy guidelines and technical data sheets, what is the drug dosage in the perioperative setting?
- 
Model without prompt
 The standard question was: "What is the dosage of the drug in the operating room?"
- 
Customized GPT model
 The pharmacist created a high-risk medication dosing guide, which was validated by a multidisciplinary group and finally used to create a customized GPT model.

SAFETY

Correct responses compared to summary of technical characteristics

Scored as 0 or 1

CLARITY

Writing and well-organizing of information

Scored as 0, 1, or 2

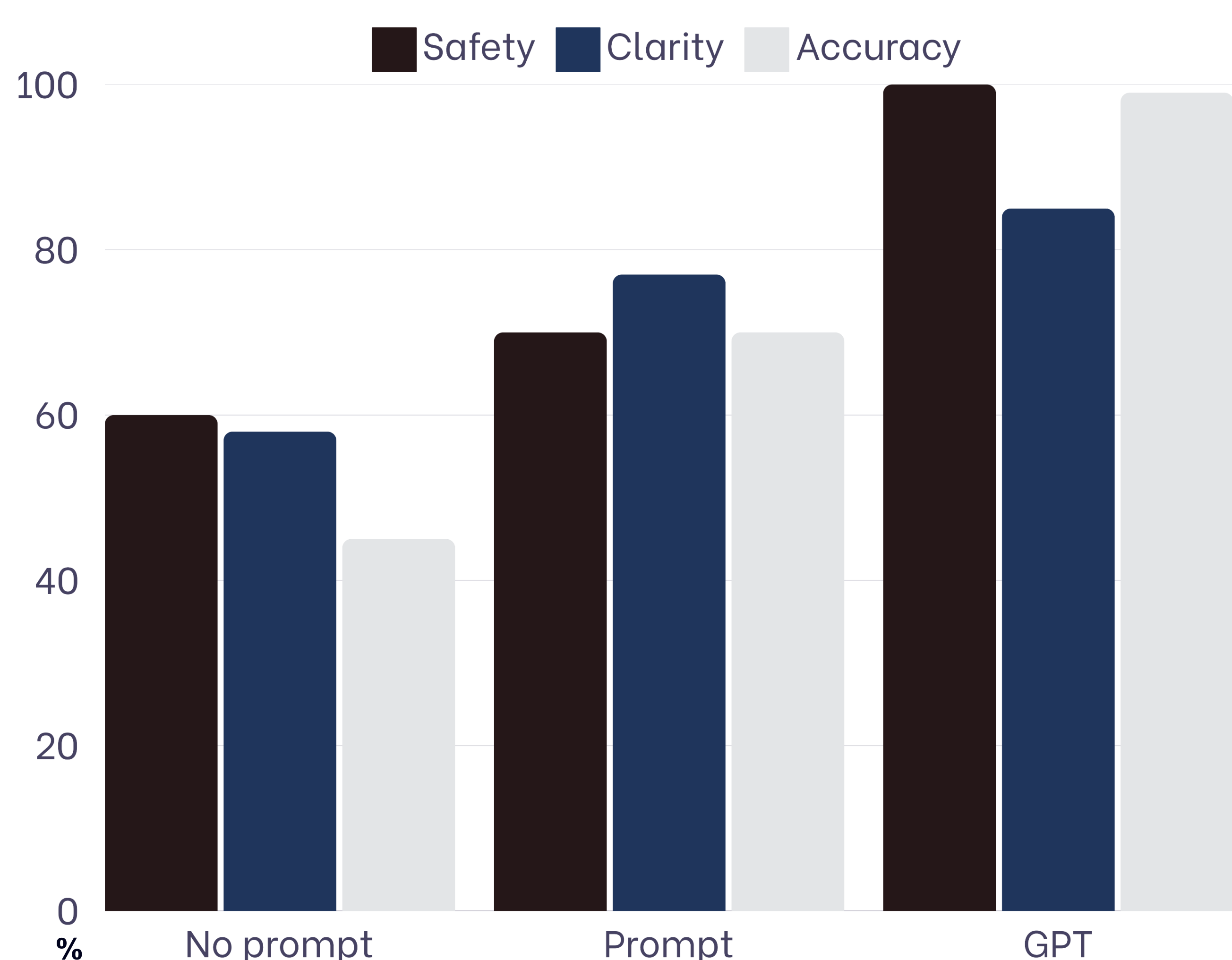
ACCURACY

Ability to provide details related to dosing

Score normalized to 1

MODEL EVALUATED
40
 HIGH RISK MEDICATION WERE INCLUDED
GPT-4o

RESULTS



CONCLUSION AND RELEVANCE

There is a need for improvement in basic chatGPT models with or without prompts as they achieved 60 and 70% of correct responses.

The valuable tool was the pharmacist customized GPT model reaching 100 % of correct answers (safety), improving clarity and accuracy.

Consequently, pharmacists should work in customized models to help health professionals in clinical practice.

