ChatGPT Validation on Medical Education for **Medical Students**

Thank you for taking part in this validation process on ChatGPT targeted **medical students** as the end user. Your expertise is invaluable in helping us to determine the model's effectiveness and identify its major limitations in assisting users within Medical Education. As such is your available time, this form was prepared to be simple and swift (hopefully) towards facilitating your medical work:

- Here, you will face 5 tasks conducted by ChatGPT to review its results (present inside a PDF file that you may have received from the same email that links you to here), which were from prompting the model in diverse manners (prompt engineering omitted).
- For demonstrative purposes, the experiments lean on the Infective Endocarditis (IE) disease.
- Please click the button below to start and read the task descriptions carefully. Put your medical hat on, and focus on the **medical student** profile!

Task 1 - IE Concept Explication in Text

As future medical professionals, a comprehensive recognition of evidence, guidelines, and disease implications to patient care is crucial for education. In this task, ChatGPT tries to explain our target disease to such students (via text) in less than 100 words.

Validation Methodology

Please adhere to the following convention when validating ChatGPT performance throughout this task:

From 1 as "Unusable" to 5 as "Perfect"

How well does ChatGPT explain the Infective Endocarditis disease to medical students (in *text)?					
	1	2	3	4	5
T1-1		0	0	0	\circ
T1-2		0	0	\circ	\circ
T1-3	0	•	0	0	\circ
T1-4	0	•	0	0	0
T1-5	0	•	0	0	\circ
T1-6	\circ		\circ	0	\circ
to report? If so T1-4- designação T1-5 - emdocard	y non-factual info , which? o dos crietrios de di ite nao é prevalente linguagem não méd	agnostico já nao em portugal. dça	é a referida desde		
Which of the below do you think is the student's academic level best aligns with the ChatGPT * result T1-6 ?					
Regular Medical Student (3rd year of graduation)					
Advanced Medical Student (5th year of graduation)					
Inconclusive based on available information					
Outra: alunos não médicos					

Linguagem não r	médica				
Task 2 - IE Thed	oretical Slide Build	der			
concepts and exp	ical lectures for me loring existing fran GPT in building 5 th	neworks while stu	udying a disease.	In this task, as m	edical teachers,
Validation Methodology As for the previous task, please adhere to the following convention when validating ChatGPT performance throughout this task: From 1 as "Unusable" to 5 as "Perfect"					
How can ChatG students?	GPT assist in mak	ing theoretical s	slides about Infe	ctive Endocardi	ts for medical *
	1	2	3	4	5
T2-1	\circ	•	0	0	\circ
T2-2	0	0	•	0	\circ
T2-3	0		\circ	0	\circ
T2-4	0		\circ	0	0
T2-5	0	0	0	•	0

Do you have any extra observations you want to provide? (Optional)

Did you find any non-factual information present among ChatGPT-built slides you would like to report? If so, which?

T2-1 - slide 2 - nao ha dados para portugal por regioes; slide 5 - a designação dos criterios de diagnostico não esta atualizada.

T2-3 e T2-4 - não apresenta os dados

Which of the below do you think is the student's academic level best aligns with the ChatGPT * result T2-5 ?
Regular Medical Student (3rd year of graduation)
Advanced Medical Student (5th year of graduation)
O Inconclusive based on available information
Outra:
Do you have any extra observations you want to provide? (Optional)
NA

Task 3 - IE Evaluation with Multiple-Choice Questions

One evaluation format commonly used by educators in quickly assessing medical students is the multiple-choice question. Besides responding directly, these questions have to cover the evaluated medical subject by containing independent options, one of which being the correct (or most suitable) answer to its question. In this task, ChatGPT was ordered to create 5 multiple-choice questions alongside an explanation of the correct option.

Validation Methodology

As for the previous task, please adhere to the following convention when validating ChatGPT performance throughout this task:

From 1 as "Unusable" to 5 as "Perfect"

How well does ChatGPT assist in generating multiple-choice questions for assessing Infective Endocarditis knowledge of medical students?					essing *
	1	2	3	4	5
T3-1		0	0	0	\circ
T3-2	0	•	0	0	\circ
T3-3	0	\circ	\circ	•	0
T3-4	0	0	0		
T3-1 - questao 1 T3-2 - Questao 2	e 3 são perolas peo tem duas resposta	dagogicas - o CH <i>i</i> s certas. Questac	AT GPT errou! o 3 e 5 opções co	nsideradas corret	
Regular MeAdvanced N	edical Student (3rd y Medical Student (5t re based on availab	h year of graduat	•		
Do you have ar	ny extra observatio	ons you want to	provide? (Optio	onal)	

Task 4 - IE Evaluation with Open-Ended Questions

Sometimes, multiple-choice questions are inadequate to analyze or discuss a medical topic. As often approached by educators, open-ended questions are used instead, offering a more nuanced methodology and allowing for in-depth exploration and demonstration of knowledge. In this task, ChatGPT attempts to elaborate 3 such thought-provoking questions, each one with a standard answer.

Validation Methodology

As for the previous task, please adhere to the following convention when validating ChatGPT performance throughout this task:

From 1 as "Unusable" to 5 as "Perfect"

	ChatGPT assist in lowledge of medi		en-ended questi	ons for assessi	ng Infective *
	1	2	3	4	5
T4-1	0	0	•	0	\circ
T4-2	0	0	0	•	\circ
T4-3	0	0	•	0	0
T4-4	0	\circ	0		\circ

Did you encounter any inappropriate academic questions, or non-factual explanations from ChatGPT you would like to report? If so, which?

A explicação é na generalidade muito simples para alunos de medicina.

Which of the below do you think is the student's academic level best aligns with the ChatGPT * result T4-4 ?				
Regular Medical Student (3rd year of graduation)				
Advanced Medical Student (5th year of graduation)				
Inconclusive based on available information				
Outra:				
Do you have any extra observations you want to provide? (Optional)				
na				

Task 5 - IE Clinical Case Study Evaluation

One enriched exercise created by medical teachers is to place students in clinically analyzing a prepared case study of a demonstrative patient condition and then answering a series of case-related questions. In this task, we prompted ChatGPT to generate an evaluation sheet based on a generated clinical case study.

Validation Methodology

As for the previous task, please adhere to the following convention when validating ChatGPT performance throughout this task:

From 1 as "Unusable" to 5 as "Perfect"

Is ChatGPT capable of creating a clinical case-based evaluation of Infective Endocarditis disease for medical students?					docarditis *
	1	2	3	4	5
T5-1	0		0	\circ	0
T5-2	0	0		\circ	0
T5-3	0		0	0	\circ
T5-4	0	0	•	0	0
Na generalidade Ha erros - em T5	ncies between bot a observação do do -1 nao se pode dize pela historia clinic	oente descrita é c er que o doente ou	lemasiada simple uve um murmur - i	s para um aluno d sso é obtido na a	valiação pelo
Which of the be	elow do you think	is the student's	academic level	best aligns with	the ChatGPT *
Regular Medical Student (3rd year of graduation)					
Advanced Medical Student (5th year of graduation)					
Inconclusive based on available information					
Outra:					

Do you have any extra observations you want to provide? (Optional)
NA

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