

Survey Questionnaire

Survey on the Use of ChatGPT in Medical Education

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Dear Student(s),

The Department of Rheumatology of Marrakech Military Hospital is conducting a study on the use of ChatGPT and artificial intelligence in medical education.

This survey aims to collect your experiences, perceptions, and practices related to this artificial intelligence tool.

Your responses are completely anonymous and confidential and will contribute to improving our understanding and integration of digital tools into medical education.

Thank you for taking a few minutes to complete this questionnaire and for participating in this collective reflection.

(Questions marked with an asterisk are mandatory.)

I. Sociodemographic Data

1. Year of study*

☐ 1st year ☐ 2nd year ☐ 3rd year ☐ 4th year ☐ 5th year ☐ 6th year ☐ 7th year

2. Age*

☐ Under 20 years ☐ 20–22 years ☐ 23–25 years ☐ Over 25 years

3. Gender*

☐ Male ☐ Female

II. Computer Skills and Technological Access

4. Assessment of your general computer skills*

- ☐ **Beginner:** I know the basics (web browsing, email, basic software).
- ☐ **Intermediate:** I regularly use office software and specialized software.
- ☐ **Advanced:** I can solve technical problems and use complex software.
- ☐ **Expert:** I have advanced skills (programming, databases, networks).

5. Access to an electronic device (select all applicable answers) *

☐ Desktop computer ☐ Laptop ☐ Tablet ☐ Smartphone

6. Internet connection (select all applicable answers) *

☐ 4G ☐ Wi-Fi ☐ ADSL

7. Where do you mainly use the Internet? *

☐ At the university ☐ At home

III. Use of ChatGPT

8. Have you ever used ChatGPT? *

☐ Yes ☐ No

9. Frequency of ChatGPT use*

☐ More than 10 times per day

☐ 5 to 10 times per day

☐ 1 to 5 times per day

☐ A few times per week

10. Ease of use*

☐ Easy ☐ Moderate ☐ Difficult

11. Do you find ChatGPT effective? *

☐ Yes ☐ No

12. Level of satisfaction*

☐ Very satisfied ☐ Fairly satisfied ☐ Slightly satisfied ☐ Not at all satisfied

13. Intention to continue using ChatGPT*

☐ Yes ☐ No ☐ Not sure

IV. Educational Uses of ChatGPT

14. In which situations do you use ChatGPT? *

☐ Preparing for MCQs

☐ Asking specific questions about medical conditions

☐ Solving clinical cases

☐ Exam preparation

☐ Writing a thesis or reports

☐ Translation of scientific articles

☐ Summarizing lectures or creating “flashcards”

15. Does using ChatGPT improve your understanding of medical subjects? *

☐ Yes, significantly

☐ Yes, moderately

☐ Little impact

☐ No impact

16. Does using ChatGPT make you feel more confident in your studies? *

☐ Yes ☐ No

17. Does ChatGPT promote your autonomy in learning? *

☐ Yes ☐ No

18. Have you noticed an improvement in your ability to study independently thanks to ChatGPT? *

☐ Yes ☐ No

19. Does ChatGPT help you prepare better for exams? *

☐ Yes, it is essential for me

☐ Yes, it helps me to some extent

☐ Little impact

☐ No impact

20. If yes, how does it help you? (select all applicable answers)

☐ Generating summaries and study notes

☐ Answering MCQs or exam questions

☐ Practicing tests with targeted explanations

☐ Clarifying complex concepts

☐ Other: _____

21. Do you use ChatGPT to write academic work? *

☐ Yes, regularly

☐ Yes, occasionally

☐ No

22. If yes, in which areas does it help you?

- ☐ Generating content
- ☐ Structuring the document
- ☐ Proofreading and revision
- ☐ Grammar correction
- ☐ Other: _____

23. Do you use ChatGPT to search for scientific articles? *

☐ Yes ☐ No

24. Do you use ChatGPT to simulate clinical cases? *

☐ Yes ☐ No

25. Do you use ChatGPT to translate scientific articles? *

☐ Yes ☐ No

26. Perceived effectiveness of ChatGPT compared with other study tools*

☐ More effective ☐ Equally effective ☐ Less effective

Why? _____

27. Do you trust ChatGPT's answers? *

☐ Yes, always ☐ Yes, but I verify them ☐ Rarely ☐ Never

V. Perceived Advantages, Limitations and Perceptions

28. Perceived advantages of using ChatGPT*

- ☐ 24/7 availability
- ☐ Quick access to information
- ☐ Interactivity
- ☐ Personalized learning
- ☐ Support for self-assessment
- ☐ Other: _____

29. Perceived limitations or shortcomings:

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VI. Perceptions of AI and ICT Training

30. Do you think that training in ICT and AI should be integrated into the medical curriculum? *

- ☐ Yes, absolutely
- ☐ Yes, but optionally
- ☐ No

31. Would you be interested in a specific module dedicated to the use of AI tools such as ChatGPT? *

- ☐ Yes ☐ No

32. If AI were integrated into the curriculum, in which areas would you like to use it? *

- ☐ Clinical diagnosis
- ☐ Reviewing course material
- ☐ Clinical case simulation
- ☐ Research
- ☐ Other: _____

33. Which AI and ICT skills should be acquired? *

- ☐ Understanding the basics of AI and machine learning
- ☐ Mastery of information search tools
- ☐ Use of advanced word-processing software
- ☐ Evaluating the reliability of information provided by chatbots
- ☐ Other: _____

34. What benefits would the integration of AI and ICT modules provide? *

- ☐ Acquisition of AI-related skills
- ☐ Better professional integration
- ☐ Adaptability to technological developments
- ☐ Improved time management and organization
- ☐ Other: _____

VII. Ethical Issues and Responsibilities

35. Do you have any concerns about integrating AI into medical education? *

☐ Yes ☐ No

If yes, what are they?

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36. Do you have any ethical concerns regarding the use of ChatGPT? *

☐ Yes ☐ No

37. If yes, which ones? (select all applicable answers)

☐ Lack of reliability of medical information

☐ Risks related to data privacy

☐ Influence on clinical judgment

☐ Influence on the doctor–patient relationship

☐ Excessive dependence on AI tools

☐ Other: _____

38. Do you feel comfortable asking ChatGPT clinical questions despite confidentiality risks? *

☐ Yes ☐ No

39. Have you ever avoided using ChatGPT for confidentiality reasons? *

☐ Yes ☐ No

40. Do you have concerns about the security of information shared with ChatGPT? *

☐ Yes ☐ No

41. Do you think that using ChatGPT for clinical advice raises questions of medical responsibility? *

☐ Yes ☐ No

42. Do you think that ChatGPT could negatively influence the doctor–patient relationship? *

☐ Yes ☐ No

43. Should the use of AI in medicine be subject to specific regulations? *

- ☐ Yes, strictly
- ☐ Yes, but with flexible regulations
- ☐ No

44. Should the use of ChatGPT in clinical decision-making be regulated? *

- ☐ Yes ☐ No

45. Should the use of ChatGPT by physicians be subject to specific professional responsibility rules? *

- ☐ Yes ☐ No

46. Should treatment recommendations generated by ChatGPT be validated by an experienced physician? *

- ☐ Yes ☐ No

47. In case of an error or misuse in an academic context, who should be held responsible? *

- ☐ The student ☐ The ChatGPT developer ☐ The faculty ☐ Other:

VIII. Open-Ended Comments

48. Do you have any additional comments or remarks regarding the use of ChatGPT and AI in medical education?

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