Knowledge, Attitudes, and Practices Regarding the Use and Reliance on Artificial Intelligence for Clinical Diagnosis Among Internship Doctors at Dongola Specialized Hospital, Northern State, Sudan, 2026

This questionnaire aims to assess the knowledge, attitudes, and practices regarding the use and reliance on artificial intelligence for clinical diagnosis among internship doctors at Dongola Specialized Hospital. Your participation is voluntary, and all information provided will be kept confidential and used for research purposes only.

* تشير إلى أنّ السؤال مطلوب

Consent + Demographics

1. Are you willing to participate in this questionnaire?*

   حدد دائرة واحدة فقط.

   - ◯ Yes
   - ◯ No

2. Age*

   _____

3. Sex*

حدد دائرة واحدة فقط.

- Male
- Female

4. What is your current internship rotation/department?*

حدد دائرة واحدة فقط.

- Internal medicine
- Surgery
- Pediatrics
- Obstetrics & Gynecology
- Emergency Department
- أخرى:

5. Have you received any formal training on the use of AI in healthcare?*

حدد دائرة واحدة فقط.

- Yes
- No

Knowledge

6. Do you know what artificial intelligence is?*

حدد دائرة واحدة فقط.

- Yes
- No

7. Do you know about machine learning and deep learning (subtypes of AI)?*

حدد دائرة واحدة فقط.

- Yes
- No

8. Do you know about any application of AI in the medical field?*

حدد دائرة واحدة فقط.

- Yes
- No

9. Have you ever been taught about artificial intelligence in medical school?*

حدد دائرة واحدة فقط.

- Yes
- No
- أخرى:

10. Do you know about the application of AI in radiology?*

حدد دائرة واحدة فقط.

- Yes
- No
- أخرى:

11. Do you know about the application of AI in the pathology field?*

حدد دائرة واحدة فقط.

- Yes
- No
- أخرى:

12. Does your training include a curriculum regarding AI?*

حدد دائرة واحدة فقط.

- Yes
- No
- أخرى:

13. Do you know that AI can generate inaccurate or fabricated information (AI hallucinations)? *

حدد دائرة واحدة فقط.

- Yes
- No

14. Do you know that AI-generated clinical information should be verified by a healthcare professional before being used in clinical decision-making? *

حدد دائرة واحدة فقط.

- Yes
- No

Attitudes

15. Do you believe AI is essential in the medical field?*

حدد دائرة واحدة فقط.

- Strongly agree
- Agree
- Don't know
- Disagree
- Strongly Disagree

16. Do you think AI should be included in the curriculum in medical school as well as specialist training? *

حدد دائرة واحدة فقط.

- Strongly agree
- Agree
- Don't know
- Disagree
- Strongly Disagree

17. Do you think AI aids practitioners in early diagnosis and assessment of the severity of disease? *

حدد دائرة واحدة فقط.

- Strongly agree
- Agree
- Don't know
- Disagree
- Strongly Disagree

18. Do you believe AI will replace physicians in the future?*

حدد دائرة واحدة فقط.

- Strongly agree
- Agree
- Don't know
- Disagree
- Strongly Disagree

19. Do you believe AI is very essential in the field of radiology?*

حدد دائرة واحدة فقط.

- Strongly agree
- Agree
- Don't know
- Disagree
- Strongly Disagree

20. Do you believe AI is essential in the field of pathology?*

حدد دائرة واحدة فقط.

- Strongly agree
- Agree
- Don't know
- Disagree
- Strongly Disagree

21. Do you believe AI would be a burden for practitioners?*

حدد دائرة واحدة فقط.

- Strongly agree
- Agree
- Don't know
- Disagree
- Strongly Disagree

22. Do you believe AI would increase the percentage of errors in diagnosis?*

حدد دائرة واحدة فقط.

- Strongly agree
- Agree
- Don't know
- Disagree
- Strongly Disagree

23. Do you believe that the final clinical decision should remain the responsibility of the physician, even when AI is used? *

حدد دائرة واحدة فقط.

- Strongly agree
- Agree
- Don't know
- Disagree
- Strongly Disagree

24. Do you trust AI-generated information when it is used to support clinical diagnosis? *

حدد دائرة واحدة فقط.

- Strongly agree
- Agree
- Don't know
- Disagree
- Strongly Disagree

Practices & Future Perspectives

25. Have you ever applied AI technology in any field?*

حدد دائرة واحدة فقط.

- Yes
- No
- Maybe
- أخرى:

26. Did AI make your task easy?*

حدد دائرة واحدة فقط.

- Yes
- No
- Maybe
- أخرى:

27. Do you think physicians have an important role in the application and evaluation of AI technology in the medical field? *

حدد دائرة واحدة فقط.

- Yes
- No
- Maybe
- أخرى:

28. Would you like to work on AI in the future?*

حدد دائرة واحدة فقط.

- Yes
- No
- Maybe
- أخرى:

29. Do you think that doctors should receive specific training on the use of AI tools in healthcare? *

حدد دائرة واحدة فقط.

- Yes
- No
- Maybe
- أخرى:

30. How frequently do you use AI tools for clinical purposes?*

حدد دائرة واحدة فقط.

- Never
- Rarely
- Sometimes
- Often
- Always

31. How often do you verify AI-generated clinical information using reliable medical sources? *

حدد دائرة واحدة فقط.

- Never
- Rarely
- Sometimes
- Often
- Always

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