

UNIFIED QUANTITATIVE SURVEY INSTRUMENT

Thank you for taking a few minutes to complete this survey.

Evidence of AI Integration in West African Healthcare: Five Interconnected Research
This study examines AI adoption, safety, governance, workforce readiness, and safety across healthcare settings. Findings will inform regional AI assurance standards, workflows, and responsible implementation strategies.



* Required

CONSENT TO PARTICIPATE

You are invited to participate in a multi-site study on Artificial Intelligence (AI) integration in West African healthcare systems, led by the Centre for AI Assurance in Health (CAAH) in collaboration with the West African College of Physicians (WACP), Centre for Artificial Intelligence (CAI), University of Abuja, Health Policy Research Group (HPRG), and NEXTWEAR Technology.

Participation is voluntary and confidential. The survey takes approximately 10–15 minutes. Responses will be anonymized and analyzed in aggregate form.

1. By selecting 'I Agree' below, you confirm that:

- You have read and understood the information above.
- You are 18 years or older and consent to participate.
- You voluntarily agree to participate in this survey.

*

☐ I agree

☐ I disagree

INSTRUCTIONS FOR RESPONDENTS

1. Please answer all questions to the best of your ability.
2. There are no right or wrong answers. Your honest responses are valuable.
3. Your responses will be kept completely confidential and used for research purposes only.
4. Estimated completion time: 12-15 minutes.
5. If you have any questions, please contact the research team.

DEMOGRAPHICS & AI FAMILIARITY

2. What is your current age? *

☐ 25-34

☐ 35-44

☐ 45-54

☐ 55-64

☐ 65+

3. What is your gender? *

☐ Male

☐ Female

☐ Prefer not to say

4. In which country do you primarily practice? *

- ☐ Benin
- ☐ Burkina Faso
- ☐ Cabo Verde
- ☐ Côte d'Ivoire
- ☐ Gambia
- ☐ Ghana
- ☐ Guinea
- ☐ Guinea-Bissau
- ☐ Liberia
- ☐ Mali
- ☐ Niger
- ☐ Nigeria
- ☐ Senegal
- ☐ Sierra Leone
- ☐ Togo

5. What is your primary medical specialty? *

6. How many years have you been in clinical practice? *

- ☐ 0-5
- ☐ 6-10
- ☐ 11-15
- ☐ 16-20
- ☐ 20+

7. What type of facility do you primarily work in? *

- ☐ Tertiary
- ☐ Secondary
- ☐ Primary
- ☐ Private
- ☐ Other

8. On a scale of 1 to 5, how would you rate your general familiarity with AI concepts? *

- | | | |
|-----------------------|-----------------------|-----------------------|
| Not familiar | Somewhat familiar | Moderately familiar |
| ☐ | ☐ | ☐ |

9. Have you ever used a clinical decision support tool that incorporates AI? *

☐ Yes

☐ No

☐ I'm not sure

PERCEPTIONS AND ATTITUDES TOWARD AI

10. I believe AI has the potential to significantly improve diagnostic accuracy in my field. *

Strongly disagree

☐

Disagree

☐

Neutral

☐

11. I believe AI can help reduce the time it takes to reach a clinical diagnosis. *

Strongly disagree

☐

Disagree

☐

Neutral

☐

12. I am concerned that reliance on AI could lead to a decline in clinical skills. *

Strongly disagree

☐

Disagree

☐

Neutral

☐

13. I believe AI tools can help in personalizing treatment plans for patients. *

Strongly disagree

☐

Disagree

☐

Neutral

☐

14. I am worried about the potential for AI algorithms to be biased against certain patient populations. *

Strongly disagree

Disagree

Neutral

☐☐☐

15. The potential for AI to reduce administrative workload is a significant benefit. *

Strongly disagree

Disagree

Neutral

☐☐☐

16. I am optimistic about the role of AI in managing and predicting disease outbreaks. *

Strongly disagree

Disagree

Neutral

☐☐☐

17. I feel that the current hype around AI in medicine is greater than its actual capabilities. *

Strongly disagree

Disagree

Neutral

☐☐☐

18. The integration of AI into clinical workflows will improve overall patient safety. *

Strongly disagree

Disagree

Neutral

☐☐☐

19. I am concerned that patient-facing AI (e.g., symptom checkers) could lead to increased patient anxiety. *

Strongly disagree

Disagree

Neutral

☐☐☐

20. I believe AI can help reduce health inequalities in healthcare delivery. *

Strongly disagree

Disagree

Neutral

☐☐☐

21. I am optimistic about the future of AI in West African healthcare. *

Strongly disagree

Disagree

Neutral

☐☐☐

TRUST, ACCOUNTABILITY, AND GOVERNANCE

22. For me to trust an AI tool, its decision-making process must be explainable. *

Strongly disagree

☐

Disagree

☐

Neutral

☐

23. I would be comfortable using an AI system approved by a reputable international body (FDA, EMA, NITDA). *

Strongly disagree

☐

Disagree

☐

Neutral

☐

24. I would be comfortable using an AI system validated by a local or national regulatory authority. *

Strongly disagree

☐

Disagree

☐

Neutral

☐

25. If an AI tool makes an error, the primary responsibility lies with the clinician who used it. *

Strongly disagree

☐

Disagree

☐

Neutral

☐

26. If an AI tool makes an error, the primary responsibility lies with the institution that deployed it. *

Strongly disagree

Disagree

Neutral

☐☐☐

27. If an AI tool makes an error, the primary responsibility lies with the AI developers. *

Strongly disagree

Disagree

Neutral

☐☐☐

28. Clear guidelines on liability are needed before I would adopt AI tools in my practice. *

Strongly disagree

Disagree

Neutral

☐☐☐

29. I trust that patient data used to train AI models will be handled securely and anonymously. *

Strongly disagree

Disagree

Neutral

☐☐☐

30. The performance of an AI tool should be continuously monitored after deployment. *

Strongly disagree

Disagree

Neutral

☐☐☐

31. I believe patients should always be informed when an AI tool has been used in their care. *

Strongly disagree

Disagree

Neutral

☐☐☐

AI IN MEDICAL EDUCATION AND TRAINING

32. I believe AI-powered simulation tools can provide a safe and effective environment for trainees to practice clinical skills. *

Strongly disagree

Disagree

Neutral

☐☐☐

33. AI-driven platforms that offer personalized learning paths would be valuable for medical education. *

Strongly disagree

Disagree

Neutral

☐☐☐

34. AI tools for automated assessment and feedback have the potential to improve training efficiency. *

Strongly disagree

Disagree

Neutral

☐☐☐

35. How concerned are you that AI in training could create doctors who are overly reliant on technology? *

Strongly disagree

Disagree

Neutral

☐☐☐

36. Medical school curricula should be updated to include foundational concepts of AI and data science. *

Strongly disagree

Disagree

Neutral

☐☐☐

37. Training on the ethical implications of AI should be mandatory for all clinicians. *

Strongly disagree

Disagree

Neutral

☐☐☐

38. How important is it that training is specific to your medical specialty? *

Strongly disagree

Disagree

Neutral

☐☐☐

39. I feel that I have the necessary statistical literacy to critically evaluate AI tool performance. *

Strongly disagree

Disagree

Neutral

☐☐☐

40. Training should include hands-on experience with real or simulated AI tools. *

Strongly disagree

Disagree

Neutral

☐☐☐

41. I am interested in learning how to identify potential bias in AI algorithms. *

Strongly disagree

Disagree

Neutral

☐☐☐

IMPLEMENTATION READINESS AND BARRIERS

42. How significant is the cost of purchasing and maintaining AI systems as a barrier to adoption? *

Not significant	Slightly significant	Moderately significant
☐	☐	☐

43. How adequate is the current IT infrastructure at your facility to support advanced AI tools? *

Completely inadequate	Inadequate	Adequate
☐	☐	☐

44. The integration of AI tools with our current Electronic Health Record (EHR) system would be challenging. *

Strongly disagree	Disagree	Neutral
☐	☐	☐

45. Strong leadership and support from hospital management are essential for successful AI adoption. *

Strongly disagree

Disagree

Neutral

☐☐☐

46. A phased or pilot-based approach is the best way to introduce AI into clinical workflow. *

Strongly disagree

Disagree

Neutral

☐☐☐

47. How important is it that AI tools are developed or validated using local patient data? *

Not important

Slightly important

Moderately important

☐☐☐

48. I am concerned about the time commitment required to learn and integrate a new AI system. *

Strongly Disagree

Disagree

Neutral

☐☐☐

49. The availability of dedicated technical support is essential for successful AI implementation. *

Strongly Disagree

Disagree

Neutral

☐☐☐

WEST AFRICAN CONTEXT

50. How reliable is the internet connectivity in your facility? *

Very unreliable Unreliable Somewhat reliable

☐☐☐

51. How reliable is the power supply in your facility? *

Very unreliable Unreliable Somewhat reliable

☐☐☐

52. How adequate is the availability of computer equipment in your facility? *

Very unreliable Unreliable Somewhat reliable

☐☐☐

53. How significant is the budget constraint in your facility for adopting new technologies? *

Not significant Slightly significant Moderately significant

☐☐☐

54. How much of a barrier is the fact that most AI tools are available in English only? *

Not a barrier

Minor barrier

Moderate barrier

☐☐☐

55. How culturally acceptable do you think AI in healthcare would be in your community? *

Not acceptable

Slightly acceptable

Moderately acceptable

☐☐☐

POST-DEPLOYMENT MONITORING

56. How important is it that AI tools are continuously monitored after deployment? *

Not important	Slightly important	Moderately important
☐	☐	☐

57. Who should be primarily responsible for monitoring AI tool performance? *

- ☐ Hospital
- ☐ Vendor
- ☐ Government
- ☐ Independent body
- ☐ Other

58. How feasible would it be to implement a continuous monitoring system in your facility? *

Not feasible	Slightly feasible	Moderately feasible
☐	☐	☐

59. What is your preferred approach to monitoring AI tool performance? *

- ☐ Real-time dashboard
- ☐ Weekly reports
- ☐ Monthly reports
- ☐ Quarterly reports

60. How concerned are you about the sustainability of monitoring systems over time? *

- | Not concerned | Slightly concerned | Moderately concerned |
|-----------------------|-----------------------|-----------------------|
| ☐ | ☐ | ☐ |

61. How important is it that clinicians receive feedback about monitoring findings? *

- | Not important | Slightly important | Moderately important |
|-----------------------|-----------------------|-----------------------|
| ☐ | ☐ | ☐ |

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