

MODULAR KEY INFORMANT INTERVIEW (KII) GUIDE

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

Evidence of AI Integration in West African Healthcare: Five Interconnected Research Topics.
This study examines AI adoption, safety, governance, workforce readiness, and system preparedness across healthcare settings. Findings will inform regional AI assurance standards, regulatory frame-works, 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 ana-lyzed 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

2. Target Informants *

- ☐ Policymakers
- ☐ Ministry Officials
- ☐ Hospital Leadership
- ☐ CMDs
- ☐ DCMACs
- ☐ Department Heads
- ☐ Senior Clinicians
- ☐ Medical Educators
- ☐ Program Directors
- ☐ AI Developers
- ☐ Data Scientists
- ☐ Technical Leads

STRATEGIC VISION & POLICY

3. What is the current state of AI adoption in West African healthcare? What are the major initiatives or pilot projects you are aware of? *

4. What do you see as the biggest opportunities for AI to improve healthcare in West Africa? *

5. What are your biggest concerns or risks about AI in healthcare? *

6. What role do you believe government should play in ensuring AI safety and effectiveness in healthcare? *

7. What regulatory frameworks do you think are needed for clinical AI in West Africa? *

8. What are your top three policy priorities for AI in healthcare? *

9. How can we ensure that the benefits of AI are distributed equitably across West Africa? *

10. What support is needed to build local AI capacity in West African healthcare institutions? *

11. Can you elaborate on that point? What evidence would support that recommendation?

12. How would you address potential resistance to that policy from clinicians or institutions?

13. What are the implementation challenges you foresee?

14. What is your timeline for action on these priorities?

15. How would you measure success in implementing AI governance?

INSTITUTIONAL GOVERNANCE & IMPLEMENTATION

16. On a scale of 1-10, how ready is your institution for AI adoption? What are the main gaps? *

17. What are the biggest barriers to AI adoption in your hospital? *

18. What governance structures or committees would be needed to oversee AI implementation? *

19. How should AI tools be selected, evaluated, and approved for use in your hospital? *

20. What training and support do your staff need to use AI tools effectively? *

21. How would you monitor the performance and safety of AI tools after deployment? *

22. What financial and human resources would be required for AI implementation? *

23. What is your realistic timeline for AI adoption in your institution? *

24. Can you give a specific example of a past technology implementation?

25. How would you address staff resistance or concerns?

26. What would success look like for your institution?

27. What are the biggest risks you foresee?

28. How will you ensure equitable access to AI benefits across your institution?

CLINICAL INTEGRATION & WORKFLOW

29. Walk me through a typical complex clinical case in your department. Where would AI potentially intervene? *

30. What would be the ideal user interface for an AI tool in your clinical setting? *

31. How much time per patient would you be willing to spend interacting with an AI tool? *

32. What is the risk of clinicians becoming over-reliant on AI recommendations? *

33. How should disagreements between AI recommendations and clinical judgment be handled? *

34. What happens if the AI tool becomes unavailable due to technical issues? *

35. How would the introduction of AI change roles and responsibilities within your clinical team? *

36. What physical or infrastructural changes would be needed to accommodate AI tools? *

37. How would you measure whether AI has improved clinical workflows and efficiency? *

38. What would make you trust an AI recommendation in a critical clinical situation? *

39. Can you walk me through a specific clinical scenario in detail?

40. How would you verify an AI suggestion if you were uncertain?

41. What training would help you and your team use AI effectively?

42. What are your biggest concerns about AI in clinical practice?

43. How do you think your patients would react to AI being used in their care?

44. What would make implementation successful in your department?

45. What lessons have you learned from past technology implementations?

CURRICULUM & WORKFORCE DEVELOPMENT

46. What are the biggest gaps in current medical education regarding AI and data science? *

47. What competencies should medical graduates have regarding AI and its use in healthcare? *

48. How should AI be integrated into the medical curriculum? As a standalone module or integrated throughout? *

49. What is the balance between hands-on experience with AI tools and theoretical knowledge? *

50. How should AI literacy and competency be assessed in medical students and residents? *

51. What training and support do faculty members need to teach AI in medicine? *

52. What are the biggest barriers to integrating AI into the curriculum at your institution? *

53. How will you keep the curriculum current with rapid AI advances? *

54. Can you describe an ideal learning experience with AI for medical students?

55. How would you prevent students from becoming over-reliant on AI?

56. What ethical issues should be addressed in AI education?

57. How would you ensure equity in access to AI education?

58. What partnerships (engineering, data science) would be valuable?

TECHNICAL DESIGN & VALIDATION

59. What are the biggest technical challenges in developing AI for West African healthcare? *

60. How important is it to validate AI tools on local West African patient data? *

61. How would you assess and mitigate algorithmic bias in your AI tools? *

62. How would you make AI recommendations explainable to clinicians? *

63. What post-deployment monitoring would be needed to ensure continued safety and effectiveness? *

64. How would you handle model drift or performance degradation over time? *

65. What happens if an AI tool performs poorly in real-world practice? *

66. How would you ensure data privacy and security in your AI systems? *

67. Can you give a specific example of a technical challenge you've encountered?

68. What are the regulatory requirements you need to meet?

69. How would you engage clinicians in the development process?

70. What resources and timeline are needed for development and validation?

71. How would you transition from research to clinical deployment?

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