

Question		Response
1	I confirm that I am 18 years or older and a medical doctor. I have read the research information and understand it. I agree to participate, knowing I can withdraw at any time without penalty. Click "I Agree" to confirm your participation.	I agree I disagree
2	Current country of residency	
3	Gender	Male Female Not Prefer to Say
4	Age (Please write your age here)	
5	What is your current level of occupation?	Practising specialist Trainee/Resident Other: [Please specify]
6	Primary specialty of practice	
7	Type of healthcare institution or organization	Public hospital Private hospital Other: [Please specify]
8	What are the current challenges you face in providing healthcare services in your practice/facility? (You can select multiple options)	Limited resources (equipment, supplies, medications) Shortage of healthcare professionals Lack of access to up-to-date medical information Difficulty in diagnosing and managing complex cases Poor infrastructure and facilities Limited access to healthcare services for remote or underserved populations Other: [Please specify]
9	What are the major barriers or concerns you have regarding the adoption of AI technologies in healthcare in your country? (You can select multiple options)	Lack of infrastructure and resources Limited access to data and computing power Concerns about data privacy and security Lack of trust in AI technologies Resistance to change and adoption of new technologies Ethical and regulatory issues Other: [Please specify]
10	Have you experienced any issues related to data privacy while using AI in your medical practice?	Yes No Prefer not to say I have not used any AI product
11	How concerned are you about the ethics and privacy of patient data when utilizing AI in healthcare?	Not at all concerned Slightly concerned Moderately concerned Very concerned Extremely concerned
12	Would you trust AI to aid in making treatment and diagnostic recommendations for your patients?	None Minimal Moderate Substantial Extensive
13	What are the primary barriers or challenges you encounter when using AI products in healthcare in your country?	Data privacy concerns Lack of trust in AI recommendations Integration with existing systems Limited access to AI technologies Other: [Please specify]
14	Have you had the opportunity to use any AI-powered tools or technologies in your practice? Experience with using AI in healthcare practice.	Yes No
15	Have you encountered any instances where AI products in healthcare failed to meet your expectations or address real-time problems effectively?	Yes No
16	Do you believe that the current AI products in the healthcare sector are tailored to meet the specific needs and challenges of healthcare providers in your country?	Yes No
17	How would you rate your understanding of AI in the healthcare context?	No understanding Basic understanding Moderate understanding Substantial understanding Advanced understanding
18	How familiar are you with the potential applications of AI in healthcare?	Not familiar at all Somewhat familiar Moderately familiar Very familiar Extremely familiar
19	Has your institution or department purchased any AI-based products or solutions?	Yes No

20	How much do AI tools improve your medical practice?	Not at all Slightly Moderately Significantly Extremely
21	On a scale of 1 to 5, How do you perceive the current level of alignment between AI products in healthcare and the demands of the healthcare sector in your country?	Very high alignment High alignment Moderate alignment Low alignment Very low alignment
22	In your opinion, what are the potential benefits of incorporating AI technologies in healthcare delivery in your country? (You can select multiple options)	Improved diagnostic accuracy Better disease management and treatment planning Increased efficiency and productivity Enhanced access to healthcare services for remote or underserved population Reduced healthcare costs Other: [Please specify]
23	How do you think AI technologies can be leveraged to address the specific healthcare challenges faced in your country? (You can select multiple options)	Telemedicine and remote patient monitoring Decision support systems for diagnosis and treatment Disease surveillance and outbreak prediction Personalized medicine and precision healthcare Supply chain management and resource allocation Other: [Please specify]
24	In your opinion, which aspects of healthcare delivery can AI products improve the most?	Safety Effectiveness Patient-centered care Timeliness Efficiency Equity
25	How do you perceive the potential impact of AI on social determinants of health (e.g., access to care, education, income)	AI will exacerbate existing inequalities in healthcare access. AI has the potential to reduce inequalities by increasing access to information and resources. The impact of AI on social determinants of health is uncertain. I am not familiar with the concept of social determinants of health. Other: [Please specify]
26	What types of AI-powered tools or technologies would be most useful in your practice/facility? (You can select multiple options)	Medical imaging analysis and interpretation Clinical decision support systems Electronic health record (EHR) management and analysis Patient monitoring and remote care Drug discovery and development Administrative tasks Primary care Other: [Please specify]
27	What factors would influence your decision to adopt or implement AI technologies in your practice/facility?	Proven effectiveness and accuracy Ease of use and integration with existing systems Availability of training and support Cost-effectiveness Regulatory approval and guidelines Other: [Please specify]
28	Have you received any training or support in understanding and using AI technologies in healthcare?	Yes No
29	How do you think the integration of AI technologies in healthcare can be facilitated and supported in your country? (You can select multiple options)	Increased investment and funding Capacity building and training programs Collaboration and knowledge sharing among healthcare providers and researchers Regulatory frameworks and guidelines Public-private partnerships Other: [Please specify]
30	What role do you think healthcare providers should play in the development and implementation of AI technologies in the healthcare sector? (You can select multiple options)	Providing input and feedback on needs and requirements Participating in the design and testing of AI technologies Advocating for ethical and responsible use of AI Promoting awareness and adoption among peers Collaborating with researchers and developers Other: [Please specify]

Supplementary table 1. Survey questions including informed consent.