Survey Questions

The complete survey forms, including all questions and response options, are provided below.

Section 1: Demographics & Professional Background

1. What is your medical specialty?
   - ☐ General Practitioner (GP)
   - ☐ Pharmacist
   - ☐ Internist
   - ☐ Other

2. How many years of experience do you have in medical practice?
   - ☐ 0–5 years
   - ☐ 6–10 years
   - ☐ 11–20 years
   - ☐ 21+ years

3. Have you previously used or interacted with AI-powered healthcare technologies?
   - ☐ Yes
   - ☐ No

4. Are you familiar with AI-driven drug recommendation systems?
   - ☐ Yes
   - ☐ No

Section 2: Usability & Perceived Effectiveness

5. How useful do you think an AI-powered kiosk for drug recommendations would be in public spaces (e.g., pharmacies, hospitals, malls)?
   - ☐ Very useful
   - ☐ Somewhat useful
   - ☐ Neutral
   - ☐ Not very useful
   - ☐ Not useful at all

6. What do you think are the key benefits of an AI-powered kiosk for drug recommendations? *(Select all that apply)*
   - ☐ Reducing workload for healthcare providers
   - ☐ Providing quick drug recommendations for minor conditions
   - ☐ Improving patient adherence to medications
   - ☐ Enhancing access to healthcare in remote areas

   Other (please specify):

7. How effective do you think AI-powered kiosks would be in empowering patients to manage minor health conditions independently?
   - ☐ Extremely effective
   - ☐ Moderately effective
   - ☐ Somewhat effective
   - ☐ Not effective

8. Do you think AI-powered kiosks could help reduce unnecessary doctor visits for minor ailments?
   - ☐ Yes, significantly
   - ☐ Yes, but only for specific cases
   - ☐ No, they won't significantly reduce doctor visits

9. Could AI kiosks improve medication adherence (i.e., ensuring patients take the correct medications as prescribed/recommended)?

☐ Yes, significantly
☐ Somewhat, for forgetful patients
☐ No, adherence is a human behavior issue

Section 3: Accuracy & Clinical Reliability

10. How would you rate the accuracy of AI-powered drug recommendation kiosks in providing appropriate Over-The-Counter (OTC) medication suggestions?

    ☐ Highly accurate, close to expert-level
    ☐ Moderately accurate, but some errors
    ☐ Somewhat accurate, but needs improvement
    ☐ Not very accurate, too many incorrect suggestions
    ☐ Not accurate at all, unreliable

11. Based on your medical expertise, how often do you think AI-powered kiosks would make clinically appropriate recommendations?

    ☐ Almost always (90%+ correct recommendations)
    ☐ Most of the time (70–89% correct recommendations)
    ☐ Sometimes (50–69% correct recommendations)
    ☐ Rarely (30–49% correct recommendations)
    ☐ Almost never (Less than 30% correct recommendations)

12. Do you believe AI-powered kiosks can identify and recommend appropriate alternative medications if a patient has allergies or contraindications?

    ☐ Yes, they are capable of handling alternative suggestions well
    ☐ Sometimes, but only for common cases
    ☐ No, AI lacks sufficient knowledge for safe substitutions

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Section 4: Clinical Safety & Risk Concerns

13. What are your primary concerns regarding AI-powered drug recommendation kiosks? *(Select all that apply)*

    ☐ Accuracy of recommendations
    ☐ Risk of incorrect self-medication
    ☐ Lack of real-time human oversight
    ☐ Ethical and privacy issues related to patient data
    ☐ Patient over-reliance on AI instead of seeing a doctor
    Other (please specify):

14. Do you think real-time Drug-Drug Interaction (DDI) checks in AI-powered kiosks can improve patient safety?

    ☐ Yes, significantly
    ☐ Somewhat
    ☐ Neutral
    ☐ Not really
    ☐ No, not at all

15. Do you think AI-powered kiosks should be restricted from recommending medications for high-risk patients (e.g., pregnant women, children, elderly, or those with chronic diseases)?

    ☐ Yes, AI kiosks should warn and direct them to a doctor
    ☐ No, but kiosks should include disclaimers
    ☐ No, if the recommendations are accurate

Section 5: Implementation & Scalability

16. How valuable do you think it would be for an AI-powered kiosk to connect users with urgent medical conditions directly to a hospital or an online doctor visit?

    ☐ Extremely valuable
    ☐ Very valuable

☐ Somewhat valuable
☐ Not very valuable
☐ Not valuable at all

17. In which of the following urgent situations do you think the kiosk should connect users directly to a hospital or online doctor visit? (*Select all that apply*)

☐ Chest pain or suspected heart attack
☐ Severe allergic reactions (e.g., anaphylaxis)
☐ Difficulty breathing or a suspected asthma attack
☐ High fever with other symptoms concerning
☐ Suspected stroke symptoms (e.g., facial drooping, slurred speech)
☐ Severe abdominal pain
Other (please specify):

18. Do you think an AI-powered kiosk should inform users about the potential side effects of recommended drugs?

☐ Yes, always—it's essential for patient safety and informed decision-making
☐ Yes, but only for common or serious side effects
☐ No, this could cause unnecessary anxiety or confusion for users
☐ No, side effect information should only be provided by a doctor or pharmacist

19. How should the kiosk communicate side effect information to users? (*Select all that apply*)

☐ Display a list of common side effects on the screen
☐ Provide a printed handout with detailed side effect information
☐ Offer an option to hear side effect information via voice commands
☐ Include a disclaimer advising users to consult a doctor for further clarification

20. In what medical settings do you think an AI-powered drug recommendation kiosk would be most beneficial? *(Select all that apply)*

☐ Pharmacies
☐ Emergency Rooms
☐ Clinics & Hospitals
☐ Rural Healthcare Centers
☐ Airports/Transportation Hubs
Other (please specify):

21. What additional features should an AI-powered drug recommendation kiosk include to enhance its effectiveness? *(Select all that apply)*

☐ Direct integration with Electronic Health Records (EHRs)
☐ Telemedicine consultation with a licensed doctor
☐ Support for prescription medications (not just OTC drugs)
☐ Real-time alerts for high-risk drug interactions
☐ Multilingual support for diverse populations
Other (please specify):

22. What are the biggest challenges in scaling AI-powered kiosks across different healthcare systems? *(Select all that apply)*

☐ High initial investment & maintenance costs
☐ Regulatory approval & compliance challenges
☐ Accuracy & AI model improvements
☐ Data privacy & cybersecurity concerns
☐ Resistance from traditional healthcare providers

Section 6: AI vs. Traditional Healthcare Services

23. Compared to a human pharmacist, how effective do you think an AI-powered kiosk is at providing OTC medication recommendations?

☐ Just as effective as a pharmacist

☐ Nearly as effective, but still needs human verification
☐ Somewhat effective, but lacks personalization
☐ Not effective, humans are irreplaceable

24. Would you trust an AI-powered kiosk more than online symptom checkers (e.g., WebMD, Google search, chatbot-based medical apps)?

☐ Yes, AI kiosks are more reliable
☐ Maybe, depending on the technology
☐ No, AI kiosks are just as unreliable as symptom checkers

25. Do you believe AI-powered kiosks will eventually replace human pharmacists for OTC medication recommendations?

☐ Yes, AI will replace pharmacists in this role
☐ No, but AI will assist them significantly
☐ No, pharmacists should always be involved

Section 7: Ethical & Privacy Concerns

26. Do you think AI-powered kiosks should require user consent before collecting and analyzing health data?

☐ Yes, explicit user consent should always be required
☐ Yes, but only for sensitive data
☐ No, if the data is anonymized
☐ No, the kiosk should not collect any personal data

27. Do you think AI-powered kiosks should be regulated by health authorities (e.g., FDA, WHO) before deployment?

☐ Yes, they should undergo strict regulatory approval
☐ Yes, but only for high-risk medical applications
☐ No, they should be self-regulated by developers

Final Open-Ended Question

28. What are your biggest concerns or suggestions for improving AI-powered kiosks for medication recommendations? *(Open-ended response)*