MIDINFO23

8 - 12 JULY 2023 | SYDNEY, AUSTRALIA



Patients' use of telemedicine mobile application during COVID-19 restrictions: A qualitative study

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Introduction

- Telemedicine as an alternative to face-to-face traditional healthcare
- COVID-19 pandemic effects and the social distancing restrictions.
- Telemedicine applications experience for patients.
- The healthcare sector and its settings were greatly disrupted by the unpredicted outbreak of the corona virus disease (COVID-19).
- Telemedicine has been widely considered to be safe and effective for delivering patient care during that challenging time period.



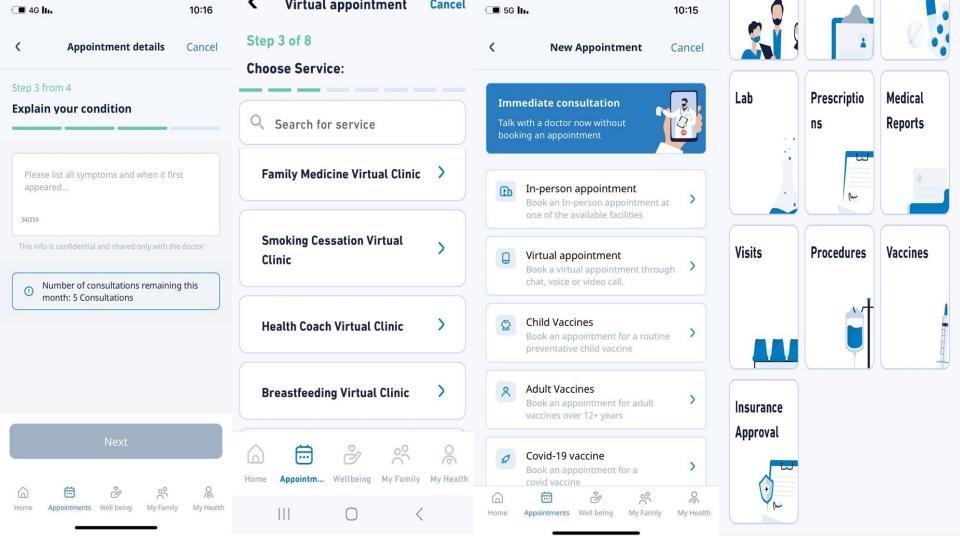
literature review

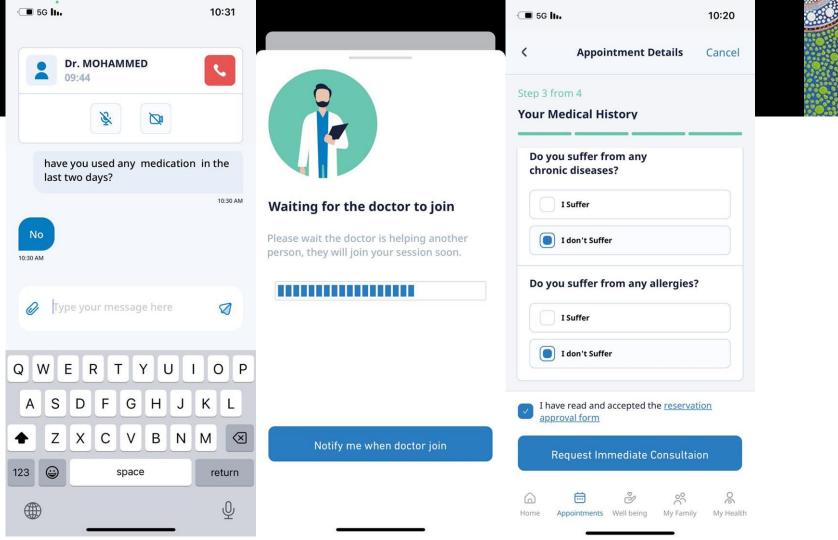
- Implementation and usage of telemedicine has faced several challenges:
 - Financial constraints
 - Operational challenges
 - Perceptions and attitudes of users
 - Regulatory requirements



Research settings

- The Ministry of Health (MDH) of Kingdom of Saudi Arabia (KSA)
- Health consultation mobile application
- Provides free consultation to its consumers
- Consultation format: chat, audio, or video







Data collection and analysis method

- Semi-structured interviews
- Patients were recruited from social media networks
- 6 Patients did participate by giving an interview for about 30 minutes by Zoom
- Ethics approval was obtained from the MOH in KSA and UOW
- Thematic analysis technique

Results

- Four females and two males
- Ages ranged between 22 to 43 years old
- Four of the patients used the app for them and their dependents.
- Four major themes emerged:
 - Reasons for using telemedicine.
 - ☐ Benefits of using telemedicine.
 - □ Drawbacks of using telemedicine.
 - □ Suggestions for improvement.





Theme 1. Reasons for using telemedicine

- experiences with using telemedicine
- Two sub-themes emerged
 - Usage caused by COVID-19
 - "The reason to use the service is to get a doctor opinion about my condition and whether I should go to hospital or receive care at home at the time of COVID-19 outbreak. "(Patient 5)
 - Get medical opinions or assessment remotely
 - "I used it because I'm a bit far from the clinic. And my consultation didn't require physical presence." (Patient I)



Theme 2. Benefits of using telemedicine

- Ease of use and accessibility:
- "Easy to access medical consultation from a reliable and trusted provider. I like it especially for my kids when they get sick." (Patient 5)
- Consultation at home:
- "I think if someone use it once, they will definitely use it again. Especially for the cases that doesn't require physical attendance to the doctor's office." (Patient 2)
- Secure Storage of data
- Reliable provider



Theme 3: Drawbacks of using the telemedicine application

- Lake of information about the consulting physician
- Doctors do not always pay full attention to the patient.
- "Sometimes I feel that some doctors do not listen in details about the symptoms, they don't take the time to fully understand the condition." (Patient 5)
- Technical flaws and issues
- The absence of physical touch effect on diagnosis
- "When you're physically at the doctor's office they have a better chance of diagnosing correctly." (Patient 2)



Theme 4: Suggestions for the improvement

- Marketing:
- "Promotional videos to show how easy it is to get a consultation. I think this would help many." (Patient 5)
- Integration with other apps:
- "They could also add integration with hospitals so when you need to go to hospital, they would book an appointment for you. Or if you needed a scan or pathology, it would be directly through them. So, patient would have a follow up until their condition is resolved. It is all within Ministry of Health so it should be integrated." (Patient 6)
- More specialists.
- 24/7 availability
- Rating feature



Conclusion:

- Telemedicine has been a vital part of the response to the spread of COVID-19 worldwide.
- Patients have reported several benefits to using telemedicine application during COVID-19 restrictions.
- Patients were not satisfied with some aspects of mobile telemedicine application.
- This study found that the telemedicine system introduced by MoH in KSA is positively viewed by patients.
- Provides them with quick access to a reliable and trusted source for them medical consultation.

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