



Telemedicine Adoption Among Rural Senegalese Healthcare Providers: Satisfaction Insights

Hassan El Bakkali¹, Ahmed Benkhelifa², Kamal Ould Hafsi³, Mohammed Khelifi^{4,5}

¹ Mohammed 1st University of Oujda

² National Center for Scientific and Technical Research (CNRST)

³ Department of Software Engineering, National Center for Scientific and Technical Research (CNRST)

⁴ Department of Software Engineering, Mohammed 1st University of Oujda

⁵ Hassan II University of Casablanca

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Correspondence: hbakkali@hotmail.com

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Author notes

Hassan El Bakkali is affiliated with Mohammed 1st University of Oujda and focuses on Computer Science research in Africa.

Ahmed Benkhelifa is affiliated with National Center for Scientific and Technical Research (CNRST) and focuses on Computer Science research in Africa.

Kamal Ould Hafsi is affiliated with Department of Software Engineering, National Center for Scientific and Technical Research (CNRST) and focuses on Computer Science research in Africa.

Mohammed Khelifi is affiliated with Department of Software Engineering, Mohammed 1st University of Oujda and focuses on Computer Science research in Africa.

Abstract

Telemedicine has emerged as a critical tool in healthcare delivery, especially for rural populations where access to medical services is limited. Telemedicine adoption data was collected through a mixed-methods approach including surveys, interviews, and observational studies conducted in rural areas of Senegal. Patient feedback on telemedicine services was gathered via structured questionnaires. A total of 250 healthcare providers participated, with satisfaction rates ranging from 78% to 82%. The most common themes identified were the ease of use and improved access to medical consultations. While telemedicine adoption is generally satisfactory among rural Senegalese healthcare providers, there is room for improvement in terms of technological infrastructure and training programmes. Investment in upgrading telemedicine equipment and enhancing digital literacy training programmes are recommended to further improve patient satisfaction and service delivery. Telemedicine, Rural Healthcare Providers, Satisfaction, Senegal Model estimation used $\hat{\theta} = \operatorname{argmin} \{ \theta \} \operatorname{sumiell} (y_i, f\theta (\xi)) + \lambda \operatorname{Vert} \theta \operatorname{rVert} 2^2$, with performance evaluated using out-of-sample error.

Keywords: Telemedicine, Sub-Saharan Africa, Senegal, Geographic Information Systems (GIS), Qualitative Research, Health Informatics, Remote Healthcare

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