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# Evaluating Usability and Impact of IoT-Driven Sensor-Based Home Diagnostics

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### Abstract:

This study presents a novel evaluation of the Part-Integrated Bedside Diagnostic Unit (PIBDU), designed for home healthcare use, emphasizing its dual focus on usability and effectiveness. The research addresses a critical gap in current healthcare technology by integrating both functional performance and user experience assessments. The findings demonstrate that the PIBDU is highly user-friendly, with 85% of participants finding it easy to use and 90% rating it as accessible. The study's innovation lies in its comprehensive methodology, which combines quantitative and qualitative data to provide a holistic evaluation of the device. This approach not only validates the PIBDU's reliability but also highlights the importance of user familiarity with technology, suggesting that enhanced training can further improve outcomes. These results underscore the device's potential to significantly impact home healthcare, offering valuable insights for future technological developments in this field.

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### I. Introduction

In recent years, the healthcare industry has witnessed a significant shift towards home-based care, driven by the increasing prevalence of chronic diseases, an ageing population, and the growing need to reduce the burden on traditional healthcare facilities[1]. As this shift gains momentum, the development and integration of innovative diagnostic tools tailored for home use have become paramount. These tools not only empower patients to manage their health more effectively but also provide healthcare providers with critical data to make informed decisions remotely[2]. The research presented in this paper addresses a crucial gap in the current landscape of home healthcare technology: the need for a user-friendly, efficient, and reliable diagnostic unit that can seamlessly integrate into the daily routines of patients and their caregivers. The primary focus of this study is the evaluation of the Part-Integrated Bedside Diagnostic Unit (PIBDU), a novel device designed to meet these requirements [3]. By conducting a comprehensive assessment of its functionality and user experience in real-world conditions, this research aims to contribute valuable insights into the device's potential impact on home healthcare practices [4]. The methodology employed in this study is meticulously designed to capture both qualitative and quantitative aspects of the PIBDU's performance[5]. A descriptive research design was chosen to allow for an in-depth examination of the device, involving structured surveys, in-depth interviews, and direct observation of a purposively selected sample[6]. This approach is robust and reflective of the device's real-world applicability. The innovation of this research lies in its dual focus on usability and effectiveness, providing a holistic evaluation of the PIBDU[7]. Unlike previous studies that often emphasize either the technical performance or the user experience, this research integrates both dimensions, offering a comprehensive analysis that is crucial for the successful deployment of healthcare technologies in home settings[8]. Furthermore, the study's emphasis on ethical considerations and its acknowledgement of limitations underscore the rigour and reliability of the research process, paving the way for future studies to build upon these findings. In conclusion, this paper not only underscores the importance of developing user-centric diagnostic tools for home healthcare but also demonstrates a novel methodological approach to evaluating such technologies[9]. The insights gained from this study are expected to inform the design and implementation of future home healthcare devices, ultimately enhancing the quality of care for patients managing chronic conditions at home[10]. The structure of the paper is as follows: Section II reviews the literature on home-based diagnostic devices and usability. Section III details the methodology, including the study design, participant recruitment, and data collection procedures. Section IV presents the results of the usability and effectiveness evaluations, while Section V discusses the implications and conclusions of the study.

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