

The Role of Cutting-edge Technology in Enhancing the Quality of Nursing Education in the Caribbean

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Efficient administrative processes are integral to advancing education, and technology continues to drive transformative changes in this field. Despite these advances, the Caribbean region faces ongoing challenges, including limited resources and scarcity of geographically and culturally aligned tools. This review explores how innovative technologies can reshape educational administration in nursing by analysing trends, applications, and strategies to inform best practices for technology adoption.

A PRISMA-guided integrative literature review was conducted using Russell's five-step process, with predefined inclusion and exclusion criteria. Databases searched included CINAHL, PubMed, LILACS, and BASE. Study quality was appraised using CASP and JBL criteria. Findings were extracted and synthesized through a narrative approach.

Seven studies focused on various technologies, including information and communication technologies (ICTs), social media, simulation tools, and virtual learning environments. Findings highlighted the use of basic mobile devices, social media platforms, video conferencing tools, collaboration platforms, virtual learning systems, and simulation-based platforms. Despite their potential, these technologies remain underutilized in the Caribbean, hindering nursing education. The studies emphasized the need for integrated educational designs utilizing both fundamental and advanced technologies, curriculum optimization to address digital disparities and resistance from stakeholders, and the establishment of ICT skill training, support networks, and robust user protocols.

Innovative technologies would enhance Caribbean nursing education by addressing existing administrative challenges, such as the lack of high-end clinical spaces. Strategies such as integrated curriculum designs, alignment with the Pan American Health Organization's (PAHO) clinical simulation and virtual learning initiatives, and effective resource utilization can better prepare graduates for evolving healthcare environments while reducing program expenditure over time.