NURS-FPX6109 Assessment 2: The Impact of Educational Technology

Student Name

Program Name or Degree Name (e.g., Bachelor of Science in Psychology), University

COURSE XXX: Title of Course

Instructor Name

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The Impact of Educational Technology

The advancement of technology has sparked considerations for upgrading existing technologies in nursing education. These potential upgrades encompass new instructional technologies, improvements to current technologies, and modifications in how technology is utilized. Among the potential improvements are integrating virtual reality (VR) simulations, allowing nursing students to practice clinical scenarios in immersive settings. These proposed changes align with the organization's mission, vision, values, and goals, ensuring high-quality education, strengthened nursing practices, and improved patient outcomes.

The New Educational Technology

Virtual reality (VR) is a state-of-the-art teaching tool that is being considered to improve nursing education. Nursing students can interact in realistic circumstances because VR's immersive, virtual surroundings encourage experiential learning (Haleem et al.,2022). In a secure and monitored environment, students can practice clinical skills, including patient evaluation, critical thinking, and decision-making, by donning VR headsets. With this technology, it is now possible to combine theory and practice in a way that does not jeopardize patient safety. Virtual reality simulations can be customized for different nursing professions to promote specialized training (Han et al., 2019). By utilizing VR, nursing education may be revolutionized, improving learning quality and equipping students to provide excellent patient care in a healthcare environment that is rapidly changing.

Proposed Changes

The purpose, vision, values, and goals of Hennepin Healthcare Center are ideally aligned with the proposed educational technology enhancements. The company is dedicated to collaborating with the community and patients to enable access to top-notch care for everyone by

integrating cutting-edge educational technology like virtual reality (VR) (Hennepin Healthcare, 2023). Experience-based learning is encouraged in VR-based nursing education, allowing students to develop their clinical expertise and critical thinking skills. This aligns with the organization's mission to promote patient and teacher education to improve health and wellness. Additionally, Hennepin Healthcare Center can promote nursing education research and advance the general understanding and advancement of the field by utilizing VR simulations. The organization's objective to provide superior care while putting a strong emphasis on teaching and community engagement is supported by the integration of educational technologies.

The Impact on the Organization

The proposed educational technology developments will significantly impact Hennepin Healthcare Center, particularly the incorporation of virtual reality (VR) in nursing education. This analysis investigates how these changes might affect several facets of the organization. Improved Learning Experience: The use of VR simulations will give nursing students a more realistic and immersive learning environment. Students can build critical thinking skills, strengthen their decision-making ability, and acquire confidence in clinical practice by participating in practical activities. This improved educational opportunity will support the organization's objective of ensuring access to excellent care by enhancing nursing graduates' general competence and preparedness (Hennepin Healthcare, 2023).

Enhanced Patient Safety: Virtual reality simulations provide trainees with a secure setting to practice clinical procedures without endangering patient safety. The company may promote a culture of continual learning and progress by letting students make errors and learn from them. In line with the organization's dedication to the well-being of its patients, using VR technology can considerably prevent any potential harm to patients during the training process

(Booth et al.,2021). Specialized Training: VR technology enables simulations to be tailored to different nursing specialties. This makes it possible for the organization to offer customized training to satisfy the particular requirements of various healthcare specialties, such as pediatrics, emergency medicine, or critical care. The Hennepin Healthcare Center can better train nurses to provide specialized care and fulfill the varied healthcare needs of the community by customizing the curriculum to specific specializations.

Research and Innovation: Using educational technology creates new opportunities for nursing education research and innovation. To investigate the utility of VR in boosting learning outcomes, establishing best practices, and creating fresh approaches to education, the organization can work with academic institutions, industry partners, and researchers. This study establishes Hennepin Healthcare Center as a pioneer in educational innovation and advances nursing education as a whole (Chen et al., 2020). Community Engagement: The company is dedicated to teaching and community education by embracing advancements in educational technologies. VR can be used for patient education, community outreach initiatives, and public health campaigns in addition to academic settings. The organization's mission and ideals are supported by this community involvement, which strengthens ties and collaborations.

The Nurse Educator's Role in Implementing the Proposed Changes

The nurse educator is essential to the Hennepin Healthcare Center's adoption of the suggested educational technology enhancements. Needs Analysis: It is crucial to carry out a careful needs analysis. Including VR technology can improve learning results in certain areas, which nurse educators should assess in light of current educational practices. The specific aims and objectives for implementing the technology are determined with the aid of this assessment

(Chen et al., 2020). Curriculum Integration: Nurse educators should work with curriculum developers and instructional designers to incorporate VR into the nursing curriculum.

The program's objectives and competencies should be aligned with the relevant topics and learning activities where VR simulations can be successfully included (Keypath Education, 2020). Education and Professional Development: Nurse educators should ensure that professors receive thorough instruction on using VR technology. This entails getting comfortable with the equipment and software, comprehending the capabilities of the VR simulations, and gaining the skills required to speed up the learning process. To keep educators abreast of developments in educational technology, opportunities for ongoing professional development should be made available.

Nurse educators may be involved in creating and developing VR simulations, according to number four. They should collaborate closely with instructional designers and subject matter experts to develop scenarios that support particular learning objectives, foster critical thinking, and replicate genuine patient interactions. Adoption and assessment: Nurse educators should supervise the adoption of VR technology in nursing education (Keypath Education, 2020). They should ensure that staff and students can access the necessary resources and assistance. It is essential to regularly monitor and assess the implementation process to find any problems or potential improvement areas. Feedback from instructors and students about their VR experiences can guide future improvements and modifications.

Incorporation into the Design of Current or Future Nursing Education Programs

Educational Goals Alignment: The educational technology modifications should align with the course's goals. Nurse educators can incorporate VR simulations into pertinent courses and clinical encounters by identifying areas where VR can improve learning outcomes.

Carefully map the VR experiences into the nursing curriculum, and advise nurse educators. They can pinpoint the right places where VR simulations can be smoothly included, enabling students to put their theoretical understanding into practice. Integrating technology into the curriculum ensures a unified and well-organized learning environment (Altmiller & Pepe, 2022).

Progressive Integration: Nurse educators can gradually integrate VR technology throughout the nursing program. Students' abilities and self-assurance can be developed over time by starting with straightforward scenarios and advancing gradually to more intricate and specialized simulations. Thanks to this progressive integration, students are sufficiently prepared and supported in their learning process.

Interdisciplinary Collaboration: Working with other disciplines is necessary to incorporate advances in educational technologies. Nurse educators can collaborate with instructional designers, technological specialists, and healthcare professionals to ensure the seamless incorporation of VR into the larger educational environment. Collaboration encourages creativity, interdisciplinary learning, and the creation of complete programs for nursing education (Booth et al.,2021).

Evaluation and Assessment: Nurse educators should develop evaluation strategies that reflect technological advancements. Virtual reality simulations can be utilized for formative and summative evaluations to gauge students' clinical competence, critical thinking skills, and knowledge. Nurse educators can give a more realistic picture of students' abilities by combining technologically improved evaluations.

Conclusion

Incorporating virtual reality (VR) into the proposed instructional technology innovations, in particular, has the most potential to completely redefine the way nursing is taught at the

Hennepin Healthcare Center. VR simulations provide an immersive and realistic learning environment by encouraging critical thinking, decision-making abilities, and specialized training. Nurse educators are critical players in implementing these changes; their duties range from curriculum integration and needs assessment to training, simulation design, and research. The design of nurse education programs will benefit from advances in educational technology that will increase patient safety, learning outcomes, innovation, and community involvement. By accepting these changes, Hennepin Healthcare Center may establish itself as a pioneer in nursing education, producing skilled and assured nurses who can provide patients with great care and promote the medical industry.

References

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