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Use of Technology in Training Periop 101 Students

The Jefferson Nurse Improving Lives, Together

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Abstract

Thomas Jefferson University Hospital (TJUH) Inc consists of a level 1 trauma center, and 3 satellite locations in Philadelphia, PA. Approximately 50 nurses are trained annually utilizing AORN's Periop 101: Core Curriculum. Due to the volume and frequency of classes, the perioperative educators explored alternative methods of supporting staff education. An interactive presentation device was selected as a supplemental tool for the designated training OR. The interactive presentation device is a 65" touch screen computer that permits the presentation of simultaneous information such as videos, documents, internet feeds and Teams/Zoom calls. In addition, the device has an embedded anatomy program that allows the educators to utilize an avatar while reviewing specific surgical procedures.

Weekly "sessions" were generated on the device to provide digital content, which reinforced the information delivered in the assigned Periop 101 modules. The ability to create a central repository of videos and pictures of room setups designed specifically for TJUH allowed the students to practice while gaining a sense of autonomy. With TJUH Inc. being the hub of the newly expanded Jefferson Enterprise, the interactive presentation device has the potential to offer collaborative communication and education across all divisions. Periop 101 programs will become uniform across the entire enterprise providing the same level of education to all facilities.

Background

Thomas Jefferson University Hospital (TJUH) center city campus has utilized the AORN Periop 101 program since January 2005 for new to practice and new to the operating room nurses. TJUH grew from 3 hospitals to 14, becoming Jefferson Health. With the current nursing shortage and the increased utilization of agency staff we needed a way to quickly and efficiently onboard new employees. Various methods of interactive technology for training were evaluated based on their ability to support distance learning while meeting the complex cybersecurity needs of the healthcare system.

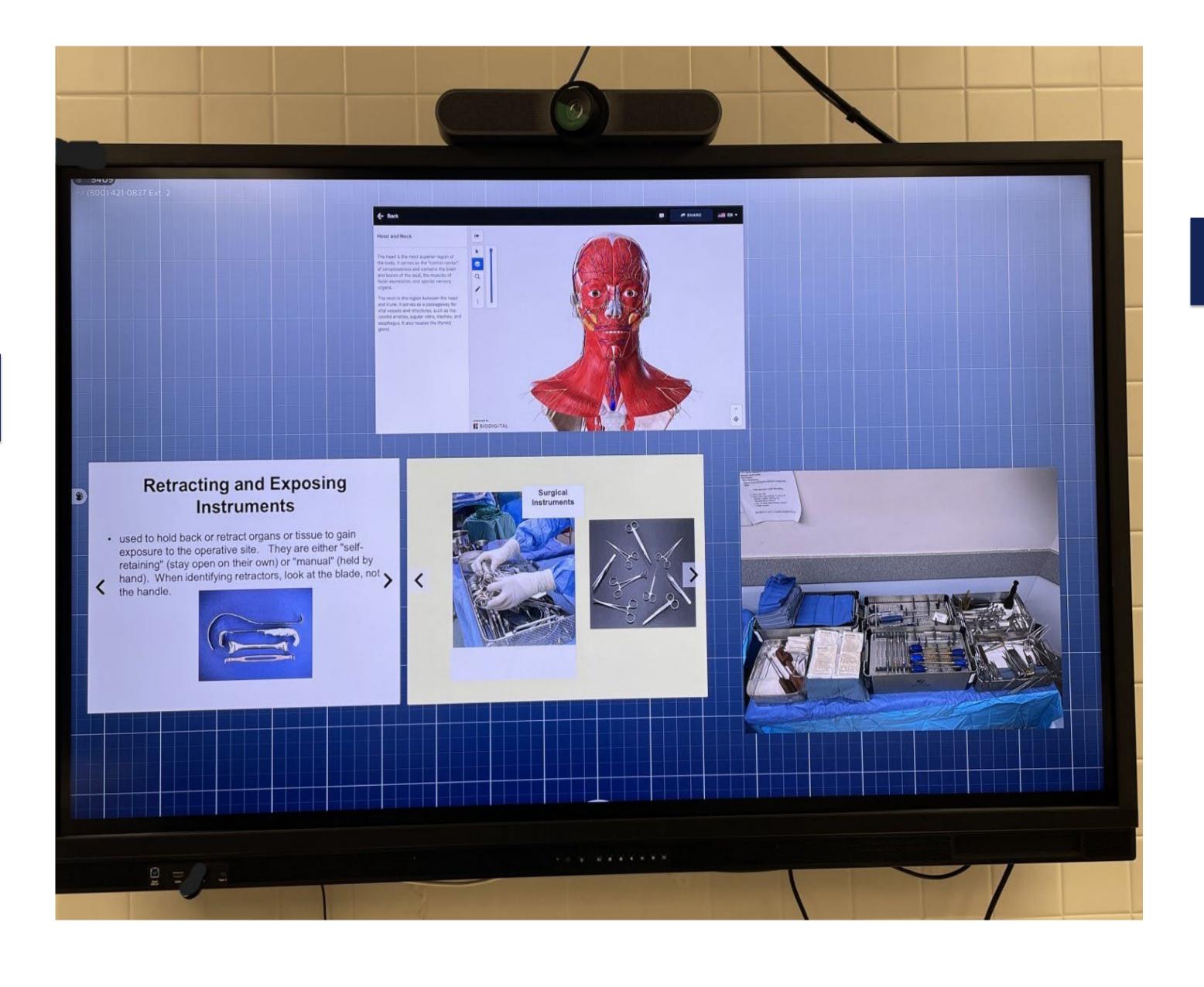
The product we chose met our criteria and enabled enterprise training that significantly cut down travel to the city of Philadelphia for in-person lectures. The first trial was with our summer 2023 Periop 101 class, and our first videoconferencing meeting was in fall 2023 utilizing Microsoft teams.

Method

We met with the company to evaluate the product, presented it to our corporation for purchase and brought it in to teach Periop 101 students. In collaboration with fellow colleagues, we developed sessions to match the syllabus and AORN Periop 101 program. To expand interactive technology, to supplement the learning activities utilizing multiple senses. To perform enterprise training via the use of Microsoft teams, Zoom, interactive presentation device applications and videoconferencing to demonstrate table setup, instrument trays, and education on equipment use in perioperative procedures, i.e., Laparoscopic video towers, ESU, suctions, and surgical OR bed. The goal was to engage the students from all enterprise locations in learning via an interactive presentation device.

Results

The interactive presentation device emphasizes engagement, critical thinking, observation, reflection of the knowledge, and retention of the lecture. The students can utilize multiple learning modalities to reinforce the information presented in Periop 101. The student response was positive to the inclusion of the technology supporting their lessons and appreciated the educators desire to incorporate new modes of teaching to ensure they are prepared for their perioperative careers.



Limitations and Conclusion

The Interactive presentation device was new to the Jefferson Health system and approval by several committees was necessary prior to implementation. The perioperative educators required training on the device and the system was customized to align with the Periop 101 syllabus. The device purchased by Jefferson is not mobile and facilities were required to provide installation.

Evaluation of the interactive presentation device demonstrated the viability of distance learning across multiple campuses. The interactive presentation device has the potential for uniform teaching of Periop 101 to multiple sites at the same time utilizing a variety of complementary tools to enhance learning. These consist of an anatomy program, web browsers, stored movies and pictures of setups and proper technique, all in sessions which are set up according to our syllabus. Each site would have the ability to control the lecture and collaborate with other sites across the enterprise to have a uniform Periop 101 training program

Literature

Culross B, Fleck MO, Curtis K, McKinney T. Interactive Distance Technology Using Touch Panel Computers in Nursing Education. *Computers, informatics, nursing*. 2022;40(4):221-227. doi:10.1097/CIN.0000000000000872

Musa D, Gonzalez L, Penney H, Daher S. Technology Acceptance and Authenticity in Interactive Simulation: Experimental Study. *JMIR medical education*. 2023;9:e40040-e40040. doi:10.2196/40040

Perceptions of digital technology in nursing education: A qualitative study. *Nurse education in practice*. 54:103136-103136. doi:info:doi/

Demonstration Video



Contact Information

