

عنوان مقاله:

Improving the Quality of Surgical Education Using Blended Learning Techniques: A Scoping Review

محل انتشار:

همایش ملی مجازی یادگیری الکترونیکی در دانشگاه های علوم پزشکی هزاره (سال: 1400)

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خلاصه مقاله:

Background: In recent years, new teaching techniques based on e-learning have gained more popularity. Blended learning (BL) is one of the attractive teaching methods that is a combination of traditional learning and e-learning that can provide the best learning format for teaching. During the Covid-19 epidemic, the use of BL as an alternative to face-to-face training is very promising. One of the essential areas for using this new technique is teaching topics related to "surgery". The purpose of this scoping review was to investigate BL techniques in surgical education and their effectiveness in this field. **Methods:** This scoping review was conducted in June 2021. We searched PubMed, Scopus, and Web of Science databases for retrieval of related articles without time limitation. Search strategies were designed to fit any scientific database. The search strategy of each database was performed using the keywords such as "Blended learning", "Education", and "Surgery". **Results:** In total, 23 articles were included in the final analysis. The results of the scoping review of the articles showed that the blended learning techniques used for the students included Flipped classroom, A Web application, E-learning simulation, Virtual learning (VLE) tools, Virtual Reality, Augmented reality, Haptic-Enabled Virtual Reality, Blended learning module, Asynchronous online discussion, Blended online curriculum, Robotics in surgery, Online Moodle, Online material, and E-learning module. Overall, 91.30% of the articles cited the effectiveness of blended learning for education. Blended learning technique was used to teach the areas of Oral and maxillofacial surgery, Medical subdomain ENT, Dental surgery, Otorhinolaryngology (ORL), Surgical skills training, Minimal invasive surgery, Surgical Cricothyroidotomy, Surgical education, Minimally Invasive Surgery, Surgery course, laparoscopic cholecystectomy, Cardiopulmonary trauma surgical skills, and Spine surgery. **Conclusion:** The results emphasize the potential of BL for teaching different medical specialties. Blended learning based on e-learning increase learners

کلمات کلیدی:

Blended learning, Surgery, Education, E-learning

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