

# The Role of Virtual Reality in the Training of Health Care Professionals: Systematic Review

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## Abstract

**Background & Aim:** New technologies, especially virtual reality, will have a significant impact on health care in the next decade. The most common application of virtual reality in medicine is its use for education. Today, for ethical and practical reasons, patients cannot be directly used in many aspects of education, in addition to significant limitations such as cost, time, and lack of environments, leading us to use this tool. Therefore, this article aims to investigate the role of virtual reality in the education of health care professionals.

**Methods:** This research is a systematic review study, in which all published articles related to the application of virtual reality in the training of healthcare professionals, without language restrictions, were considered from March 2000 until the end of March 2018. Scopus, Scholar, PubMed databases were searched for articles.

**Results:** The results of 68 articles showed that virtual reality has many benefits in training physicians and surgeons, nurses, dentists and other medical professions such as anesthesiologists, psychiatrists and biiatrists.

**Conclusion:** Virtual reality creates a simulated, flexible and secure environment enabling thousands of times of patient training without time limitation and injury, which results in better and effective training, increased accuracy and reduced error in trainees. Becomes health care. Due to the many benefits of this technology it is recommended to use it in education.

**Keywords:** Virtual Reality, Education, Simulation

*How to cite this article:* Mahdizadeh F, Mahdizadeh F, Sheykhotayefeh M. The Role of Virtual Reality in the Training of Health Care Professionals: Systematic Review. Journal of Student Research Committee (JSRC) of Torbat Heydariyeh University of Medical Sciences. 2019; 1(2):10-22.