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Pages 243 - 264 · 13 March 2023

Document type

Book Chapter

Source type

Book

ISBN978-166847165-4, 1668471647,
978-166847164-7**DOI**

10.4018/978-1-6684-7164-7.ch011

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Dental education in the information age: Teaching dentistry to generation Z learners using an autonomous smart learning environment

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Abstract

An autonomous smart learning environment (ASLE) is a new educational paradigm that utilizes artificial intelligence and machine learning technologies to provide personalized, adaptive, and self-directed learning experiences. Although the clinical aspects of dentistry have experienced technological advancements, the development and implementation of ASLE in dental education are scarce. The goal of this chapter is to investigate the potential of ASLE as a teaching and learning tool in dentistry education and how it can be used to improve the learning experience and outcomes for dental students. Furthermore, it will highlight the current pedagogical approaches used in dental and oral medicine as well as the processes that can be incorporated to strengthen the current training needs of Generation Z learners. Overall, this chapter will provide insights into the potential of ASLE to enhance the quality of education in dentistry, inform the development of future ASLE-based dental education programs, and introduce dental education in the information age. © 2023, IGI Global. All rights reserved.

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