



**DENTAL EDUCATION AND RESEARCH:
ARTIFICIAL INTELLIGENCE & ROBOTICS**

<p>A randomised study of ChatGPT-4o vs. written materials for teaching periodontal-systemic relationships in dental education [Accessible from the Wiley link on this page]</p>	<p>Eur J Dent Educ 2026; online 28 Mar doi.org/10.1111/eje.70149</p>
<p>Introduction to large language models and the application of generative artificial intelligence in dental education and clinical practice [free to members on Science Direct. If you do not have a login email library@bda.org to request one]</p>	<p>Dent Clin N Amer 2026; 70(2): 315-329</p>
<p>Artificial intelligence: A modern tool for assessing dental students?</p>	<p>J Dent 2026; 165: 106273</p>
<p>Artificial intelligence-powered chatbots' responses to orthodontic questions from the dentistry specialization examination: Accuracy and source evaluation</p>	<p>J Dent Sci 2025; online 13 Dec doi.org/10.1016/j.jds.2025.11.027</p>
<p>The impact of training dental students to use an artificial intelligence-based platform for pulp exposure prediction prior to deep caries excavation: a proof-of-concept randomised controlled trial</p>	<p>Int Endodont J 2025; online 10 Oct doi.org/10.1111/iej.70046</p>
<p>Performance of large language models (ChatGPT4-0, Grok2 and Gemini) in UK dentistry and dental hygiene and therapy assessments</p>	<p>BDJ (2025). https://doi.org/10.1038/s41415-025-8383-2</p>
<p>Assessing the power of AI: a comparative evaluation of large language models in generating patient education materials in dentistry</p>	<p>BDJ Open 2025; 11: 59</p>
<p>Transforming education: tackling the two sigma problem with AI in journal clubs – a proof of concept</p>	<p>BDJ Open 2025; 11: 46</p>
<p>Transforming undergraduate dental education: the impact of artificial intelligence</p>	<p>BDJ 2025; 238(1): 57-60</p>
<p>Familiarity with ChatGPT features modifies expectations and learning outcomes of dental students</p>	<p>Int Dent J 2024; 74 (6): 1456-62</p>
<p>Recognising and supporting authentic learning in a changing world: the opportunities and threats of AI</p>	<p>BDJ 2024; 237(8): 659–662</p>
<p>Performance of large language artificial intelligence models on solving restorative dentistry and endodontics student assessments</p>	<p>Clin Oral Investig 2024; 28: 575</p>
<p>Can a large language model create acceptable dental board-style examination questions? A cross-sectional prospective study</p>	<p>J Dent Sci 2024; online 11 Sep doi.org/10.1016/j.jds.2024.08.020</p>
<p>Artificial intelligence in endodontic education [free to members on Science Direct. If you do not have a login email library@bda.org to request one]</p>	<p>J Endod 2024; 50(5); 562-578</p>
<p>Role of ChatGPT in academia: dental students' perspectives [can be accessed on DOSS free by logging in on this page]</p>	<p>Prim Dent J 2024; 13(1): 89-90</p>



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Evaluating the efficacy of leading large language models in the Japanese national dental hygienist examination: A comparative analysis of ChatGPT, Bard, and Bing Chat	J Dent Sci 2024; online 29 Feb doi.org/10.1016/j.jds.2024.02.019
Dental student application of artificial intelligence technology in detecting proximal caries [Accessible from the Wiley link on this page]	J Dent Educ 2024; Jan 10
Artificial intelligence in dental education: ChatGPT's performance on the periodontic in-service examination [Accessible from the Wiley link on this page]	J Periodontol 2024; Jan 10
ChatGPT-A double-edged sword for healthcare education? Implications for assessments of dental students	Eur J Dent Educ 2024; 28(1): 206-211
Dental education: not immune to AI and immersive technologies [can be accessed on DOSS free by logging in on this page]	Faculty Dental Journal 2024; 15(1): 14-17
Use of artificial intelligence software in dental education: A study on assisted proximal caries assessment in bitewing radiographs	Eur J Dent Educ 2023; Nov 14
Unveiling the ChatGPT phenomenon: evaluating the consistency and accuracy of endodontic question answers	Int Endod J 2024; 57(1): 108-113
Generative AI use in dental education: Efficient exam item writing [Accessible from the Wiley link on this page]	J Dent Educ 2023; 87(Suppl 3): 1865-1866
Innovating dental education with artificial intelligence	J Calif Dent Assoc 2023; 51(1): 2217692
Artificial intelligence in dentistry: A bibliometric analysis from 2000 to 2023	J Dent Sci 2023; online 11 Nov doi.org/10.1016/j.jds.2023.10.025
The performance of artificial intelligence language models in board-style dental knowledge assessment: A preliminary study on ChatGPT [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Am Dent Assoc 2023; 154 (11): 970-4
Will scientific publishing be influenced by artificial intelligence? [Editorial] [can be accessed on DOSS free by logging in on this page]	Int J Prosthodont 2023; 36 (2): 130
Korean dental hygiene students' perceptions and attitudes toward artificial intelligence: An online survey [Accessible from the Wiley link on this page]	J Dent Educ 2023; 87(6): 804-812
The use of artificial intelligence to aid in oral hygiene education: A scoping review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2023; 135: 104564
GPT-4: the future of artificial intelligence in medical school assessments	J Roy Soc Med 2023; online Jun 15 doi.org/10.1177/0141076823118125



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Artificial intelligence in healthcare and education [written entirely by AI]	BDJ 2023; 234: 761-4
Artificial intelligence for oral and dental healthcare: Core education curriculum [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2023; 128: 104363
Artificial intelligence in oral and maxillofacial surgery education [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Oral Maxillofac Surg Clin N Am 2022; 34 (4): 585-91
Preparing the next generation of clinicians for practice using augmented and artificial intelligence [Not included in the loan copy] [can be accessed on DOSS free by logging in on this page]	Compendium Continuing Educ Dent 2022; 43(10): e1-e4
Adopting artificial intelligence in dental education: A model for academic leadership and innovation	J Dent Educ 2022; 86(11): 1545-1551
Scoping review of artificial intelligence and immersive digital tools in dental education [Accessible from the Wiley link on this page]	J Dent Educ 2022; 86(6): 736-750
Using a virtual patient via an artificial intelligence chatbot to develop dental students' diagnostic skills	Int J Environ Res Public Health 2022; 19 (14): 8735
Robot technology in dentistry, part one of a systematic review: literature characteristics [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Dent Mater 2021; 37(8): 1217-1226
Better reporting of studies on artificial intelligence: CONSORT-AI and beyond	J Dent Res 2021; 100(7): 677-680
Attitudes and perceptions of dental students towards artificial intelligence	J Dent Educ 2021; 85(1): 60-68
Artificial intelligence in dental research: Checklist for authors, reviewers, readers [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2021; (107): 103610