



## DENTAL EDUCATION AND RESEARCH: ARTIFICIAL INTELLIGENCE & ROBOTICS

<a href="#">Artificial intelligence-powered chatbots' responses to orthodontic questions from the dentistry specialization examination: Accuracy and source evaluation</a>	J Dent Sci 2025; online 13 Dec doi.org/10.1016/j.jds.2025.11.027
<a href="#">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</a>	Int Endodont J 2025; online 10 Oct doi.org/10.1111/iej.70046
<a href="#">Performance of large language models (ChatGPT4-0, Grok2 and Gemini) in UK dentistry and dental hygiene and therapy assessments</a>	BDJ (2025). https://doi.org/10.1038/s41415-025-8383-2
<a href="#">Assessing the power of AI: a comparative evaluation of large language models in generating patient education materials in dentistry</a>	BDJ Open 2025; 11: 59
<a href="#">Transforming education: tackling the two sigma problem with AI in journal clubs – a proof of concept</a>	BDJ Open 2025; 11: 46
<a href="#">Transforming undergraduate dental education: the impact of artificial intelligence</a>	BDJ 2025; 238(1): 57-60
<a href="#">Familiarity with ChatGPT features modifies expectations and learning outcomes of dental students</a>	Int Dent J 2024; 74 (6): 1456-62
<a href="#">Recognising and supporting authentic learning in a changing world: the opportunities and threats of AI</a>	BDJ 2024; 237(8): 659–662
<a href="#">Performance of large language artificial intelligence models on solving restorative dentistry and endodontics student assessments</a>	Clin Oral Investig 2024; 28: 575
<a href="#">Can a large language model create acceptable dental board-style examination questions? A cross-sectional prospective study</a>	J Dent Sci 2024; online 11 Sep doi.org/10.1016/j.jds.2024.08.020
<a href="#">Artificial intelligence in endodontic education</a> [free to members on Science Direct. If you do not have a login email <a href="mailto:library@bda.org">library@bda.org</a> to request one]	J Endod 2024; 50(5); 562-578
Role of ChatGPT in academia: dental students' perspectives [can be accessed on DOSS free by logging in <a href="#">on this page</a> ]	Prim Dent J 2024; 13(1): 89-90
<a href="#">Evaluating the efficacy of leading large language models in the Japanese national dental hygienist examination: A comparative analysis of ChatGPT, Bard, and Bing Chat</a>	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 <a href="#">on this page</a> ]	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 <a href="#">on this page</a> ]	J Periodontol 2024; Jan 10



## DENTAL EDUCATION AND RESEARCH: ARTIFICIAL INTELLIGENCE & ROBOTICS

---

<a href="#">ChatGPT-A double-edged sword for healthcare education? Implications for assessments of dental students</a>	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 <a href="#">on this page</a> ]	Faculty Dental Journal 2024; 15(1): 14-17
<a href="#">Use of artificial intelligence software in dental education: A study on assisted proximal caries assessment in bitewing radiographs</a>	Eur J Dent Educ 2023; Nov 14
<a href="#">Unveiling the ChatGPT phenomenon: evaluating the consistency and accuracy of endodontic question answers</a>	Int Endod J 2024; 57(1): 108-113
Generative AI use in dental education: Efficient exam item writing [Accessible from the Wiley link <a href="#">on this page</a> ]	J Dent Educ 2023; 87(Suppl 3): 1865-1866
<a href="#">Innovating dental education with artificial intelligence</a>	J Calif Dent Assoc 2023; 51(1): 2217692
<a href="#">Artificial intelligence in dentistry: A bibliometric analysis from 2000 to 2023</a>	J Dent Sci 2023; online 11 Nov doi.org/10.1016/j.jds.2023.10.025
<a href="#">The performance of artificial intelligence language models in board-style dental knowledge assessment: A preliminary study on ChatGPT</a> [free to members on Science Direct. If you do not have a login email <a href="mailto:library@bda.org">library@bda.org</a> 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 <a href="#">on this page</a> ]	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 <a href="#">on this page</a> ]	J Dent Educ 2023; 87(6): 804-812
<a href="#">The use of artificial intelligence to aid in oral hygiene education: A scoping review</a> [free to members on Science Direct. If you do not have a login email <a href="mailto:library@bda.org">library@bda.org</a> to request one]	J Dent 2023; 135: 104564
<a href="#">GPT-4: the future of artificial intelligence in medical school assessments</a>	J Roy Soc Med 2023; online Jun 15 doi.org/10.1177/0141076823118125
<a href="#">Artificial intelligence in healthcare and education</a> [written entirely by AI]	BDJ 2023; 234: 761-4
<a href="#">Artificial intelligence for oral and dental healthcare: Core education curriculum</a> [free to members on Science Direct. If you do not have a login email <a href="mailto:library@bda.org">library@bda.org</a> to request one]	J Dent 2023; 128: 104363
<a href="#">Artificial intelligence in oral and maxillofacial surgery education</a> [free to members on Science Direct. If you do not have a login email <a href="mailto:library@bda.org">library@bda.org</a> to request one]	Oral Maxillofac Surg Clin N Am 2022; 34 (4): 585-91



## DENTAL EDUCATION AND RESEARCH: ARTIFICIAL INTELLIGENCE & ROBOTICS

---

Preparing the next generation of clinicians for practice using augmented and artificial intelligence <b>[Not included in the loan copy]</b> [can be accessed on DOSS free by logging in <a href="#">on this page</a> ]	Compendium Continuing Educ Dent 2022; 43(10): e1-e4
<a href="#">Adopting artificial intelligence in dental education: A model for academic leadership and innovation</a>	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 <a href="#">on this page</a> ]	J Dent Educ 2022; 86(6): 736-750
<a href="#">Using a virtual patient via an artificial intelligence chatbot to develop dental students' diagnostic skills</a>	Int J Environ Res Public Health 2022; 19 (14): 8735
<a href="#">Robot technology in dentistry, part one of a systematic review: literature characteristics</a> [free to members on Science Direct. If you do not have a login email <a href="mailto:library@bda.org">library@bda.org</a> to request one]	Dent Mater 2021; 37(8): 1217-1226
<a href="#">Better reporting of studies on artificial intelligence: CONSORT-AI and beyond</a>	J Dent Res 2021; 100(7): 677-680
<a href="#">Attitudes and perceptions of dental students towards artificial intelligence</a>	J Dent Educ 2021; 85(1): 60-68
<a href="#">Artificial intelligence in dental research: Checklist for authors, reviewers, readers</a> [free to members on Science Direct. If you do not have a login email <a href="mailto:library@bda.org">library@bda.org</a> to request one]	J Dent 2021; (107): 103610