



ORTHODONTICS : ARTIFICIAL INTELLIGENCE & ROBOTICS

Human perception of AI-generated post-treatment orthodontic facial images: factors associated with misclassification	Clinical Oral Investigations 2026; 30(8): 345
The use of teleorthodontics and artificial intelligence for orthodontic triage and screening in a publicly funded healthcare system: A crossover randomized controlled trial (request using https://www.smartsurvey.co.uk/s/PJHMY/)	Eur J Orthodont 2026; 48 (4): cjad050
Chatbot content analysis of patient information on orthodontic tooth extractions [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Stomatol Oral Maxillofac Surg 2026; 127(3): 102675
Artificial intelligence and its applications in orthodontics and dentofacial orthopedics [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Dent Clin N Amer 2026; 70(2): 471-486
Oral radiologists and orthodontists' attitude regarding the use of artificial intelligence for cephalometric analysis	J Orofac Orthop 2026; 11 Feb
Development of a deep learning classification model using a codeless platform for orthodontic extraction decision-making: Impact of image type on model performance [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2026; 166: 106296
Examining the ability of artificial intelligence-driven occlusal contact adjustment to improve virtual occlusal record trueness for implant restorations: An in vitro study [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2026; 165: 106212
Clinical advances in curve of Spee assessment: Deep learning for automatic tooth landmark detection in Invisalign [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2026; 169 (1): 110-125.e4
The role of artificial intelligence in providing accurate and reliable information on surgically-assisted rapid palatal expansion: A cross-sectional study [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2026; 169 (1): 31-41.e3
A prospective longitudinal observational study on the emotional impact of AI-simulated smiles on orthodontic patient motivation	Int J Dent 2026: 8425551
Comparative evaluation of ChatGPT and Gemini in detecting external apical root resorption on panoramic radiographs of orthodontic patients: Artificial intelligence performance in detecting root resorption	J Orofac Orthop 2025; Dec 15
Comparison between direct, virtual aided by clinician and artificial intelligence bonding techniques in orthodontics	Orthod Craniofac Res 2025; 13 Oct
AI-generated orthodontic patient education videos: Content and quality assessment (request using https://www.smartsurvey.co.uk/s/PJHMY/)	J Orthod 2025: 14653125251391435
Development and evaluation of an attention-gated U-net model for binary segmentation of teeth versus background in panoramic radiographs for orthodontic applications	Eur J Orthod 2025; 48 (1): cjad114



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Evidence-based potential of generative artificial intelligence large language models in orthodontics: a comparative study of ChatGPT, Google Bard, and Microsoft Bing	Eur J Orthod 2025; 48 (1): cjae017
Usefulness of an artificial intelligence-assisted indirect bonding method for optimizing orthodontic bracket positioning	Angle Orthod 2025; 96 (1): 93-99
Comparative analysis of artificial intelligence chatbots in orthodontic emergency scenarios: ChatGPT-3.5, ChatGPT-4.0, Copilot, and Gemini	Angle Orthod 2025; 96 (1): 100-105
AI-enhanced orthodontic treatment planning - a scoping review on evidence-based clinical application with commercial software overview	J Dent 2025; 163: 106112
Patient trust in artificial intelligence for orthodontic advice: A systematic review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Amer Dent Assoc 2025; 156(11): 931-944
A novel machine-learning-based model for prediction of open gingival embrasures between mandibular central incisors after clear aligners treatment: a retrospective cohort study	Prog Orthod 2025; 26: 39
Can AI chatbots accurately provide information on orthodontic risks?	Angle Orthod 2025; 95 (5): 483-489
Validation of an AI-aided 3D method for enhanced volumetric quantification of external root resorption in orthodontics	Angle Orthod 2025; 95 (5): 474-482
What amount of data is required to develop artificial intelligence that can accurately predict soft tissue changes after orthognathic surgery?	Angle Orthod 2025; 95 (5): 467-473
Information from digital and human sources: A comparison of chatbot and clinician responses to orthodontic questions [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2025; 168 (3): 348-357
Fully automated evaluation of condylar remodelling after orthognathic surgery in skeletal class II patients using deep learning and landmarks [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2025; 159: 105819
Unveiling the role of artificial intelligence applied to clear aligner therapy: A scoping review	J Dent 2025; 154: 105564
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Automatic 3-dimensional quantification of orthodontically induced root resorption in cone-beam computed tomography images based on deep learning [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2025; 167 (2): 188-201
Artificial intelligence for orthodontic diagnosis and treatment planning: A scoping review	J Dent 2025; 152: 105442



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Training, use, and modifications related to artificial intelligence in postgraduate orthodontic programs in North America [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2025; 167(1): 89-94.e2
Applications of artificial intelligence in diagnosis and treatment planning of orthodontics: a narrative review [Review]	Saudi Dent J 2025; 37(7-9): 70
Traditional and artificial intelligent methods in predicting maxillofacial soft tissue morphology and orthognathic surgery: a narrative review	Int J Dent 2025; 6268492
Effectiveness of automated segmentation of maxillofacial structures in cone-beam computed tomography images using artificial intelligence: A systematic review	Int Orthodont 2025; 24 : 101081
Accuracy of artificial intelligence in orthodontic extraction treatment planning: a systematic review and meta analysis	BMC Oral Health 2025; 25(1): 1576
Artificial intelligence in orthodontics: concerns, conjectures, and ethical dilemmas	Int Dent J 2025; 75(1): 20-22
Designing an artificial intelligence system for dental occlusion classification using intraoral photographs: A comparative analysis between artificial intelligence-based and clinical diagnoses [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthoped 2024; 166(2): 125-137
Automatic cephalometric landmark identification with artificial intelligence: An umbrella review of systematic reviews [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dentistry 2024; 146: 105056
Examination of the reliability and readability of Chatbot Generative Pretrained Transformer's (ChatGPT) responses to questions about orthodontics and the evolution of these responses in an updated version [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthoped 2024; 165 (5): 546-55
Clinical evaluation of Artificial Intelligence Driven Remote Monitoring technology for assessment of patient oral hygiene during orthodontic treatment [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthoped 2024; 165 (5): 586-92
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Connecting the dots towards precision orthodontics	Orthod Craniofac Res 2023; 26(Suppl.1): 8-19
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In-vivo evaluation of Artificial Intelligence Driven Remote Monitoring technology for tracking tooth movement and reconstruction of 3-dimensional digital models during orthodontic treatment [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2023; 164(5): 690-699
The knowledge, experience, and attitude on artificial intelligence-assisted cephalometric analysis: Survey of orthodontists and orthodontic students [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthoped 2023; 164 (4): e97-e105
Assessment of artificial intelligence–based remote monitoring of clear aligner therapy: A prospective study [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2023; 164 (2): 194-200
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AI driven orthodontic devices: Independent tooth movers (ITM) [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Seminars Orthod 2023; 29 (1): 85-89
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The validation of orthodontic artificial intelligence systems that perform orthodontic diagnoses and treatment planning	Eur J Orthodont 2022; 44 (4): 436-44



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Machine learning in orthodontics: Automated facial analysis of vertical dimension for increased precision and efficiency [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2022; 161(3): 445-450
Estimating the size of unerupted teeth: Moyers vs deep learning [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2022; 161(3): 451-456
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Evaluation of fully automated cephalometric measurements obtained from web-based artificial intelligence driven platform	BMC Oral Health 2022; 22: Art 132
Cephalometric analysis in orthodontics using artificial intelligence – a comprehensive review	BioMed Res Int 2022: 1880113
Automatic localization of cephalometric landmarks based on convolutional neural network [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2022; 161(3): e250-e259
Machine learning and orthodontics, current trends and the future opportunities: A scoping review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2021; 160(2): 170-192.e4
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Artificial intelligence in orthodontics: Where are we now? A scoping review	Orthod Craniofac Res 2021; 24(S2): 6-15
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Possibilities of artificial intelligence use in orthodontic diagnosis and treatment planning: Image recognition and three-dimensional VTO [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Seminars Orthod 2021; 27(2): 121-129
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The diagnostic advantage of a CBCT-derived segmented STL rendition of the teeth and jaws using an AI algorithm (request using https://www.smartsurvey.co.uk/s/PJHMV/)	J Clin Orthod 2021; 55(6): 361-369
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Evaluation of automated cephalometric analysis based on the latest deep learning method	Angle Orthod 2021; 91(3): 329-335
A knowledge-based algorithm for automatic monitoring of orthodontic treatment: The Dental Monitoring System. Two cases	Sensors (Basel) 2021; 21(5): 1856
A deep learning-based approach for the detection of early signs of gingivitis in orthodontic patients using faster region-based convolutional neural networks	Int J Environ Res Public Health 2020; 17(22): 8447
Machine learning in orthodontics: Introducing a 3D auto-segmentation and auto-landmark finder of CBCT images to assess maxillary constriction in unilateral impacted canine patients	Angle Orthod 2020; 90(1): 77-84