

PERIODONTOLOGY: ARTIFICIAL INTELLIGENCE & ROBOTICS

Artificial intelligence in detecting periodontal disease from intraoral photographs: a systematic review	Int Dent J 2025; 75 (5): 100883
A personalized periodontitis risk based on nonimage electronic dental records by machine learning	J Dent 2024; Nov 19. 105469
<u>Deep learning method to automatically diagnose periodontal bone loss</u> and periodontitis stage in dental panoramic radiographs [free to members on Science Direct. If you do not have a login email <u>library@bda.org</u> to request one]	J Dent 2024; 150: 105373
<u>Large language models in periodontology: Assessing their performance in clinically relevant questions</u> [free to members on Science Direct. If you do not have a login email <u>library@bda.org</u> to request one]	J Prosthet Dent 2024; Nov 18
Artificial intelligence with counseling on the treatment outcomes and quality of life in periodontitis patients [Accessible from the Wiley link on this page]	J Periodont 2024; Nov 16
Performance of ChatGPT and dental students on concepts of periodontal surgery [Accessible from the Wiley link on this page]	Eur J Dent Educ 2024; Oct 24
Accuracy of artificial intelligence models in the prediction of periodontitis: A systematic review (request using https://www.smartsurvey.co.uk/s/PJHMV/)	JDR Clin Translational Res 2024; 9(4): 312-324
Exploring the accuracy of tooth loss prediction between a clinical periodontal prognostic system and a machine learning prognostic model	J Clin Periodontol 2024; 51(10): 1333-1341
Enhanced control of periodontitis by an artificial intelligence-enabled multimodal-sensing toothbrush and targeted mHealth micromessages: A randomized trial	J Clin Periodont 2024; Apr 17
Identifying predictors of the tooth loss phenotype in a large periodontitis patient cohort using a machine learning approach [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dentistry 2024; 144: 104921
Comparison of deep learning methods for the radiographic detection of patients with different periodontitis stages	Dento-Maxillo-Fac Radiol 2024; 53(1): 32-42
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; Jan10 [Early view]
Artificial intelligence models for diagnosing gingivitis and periodontal disease: A systematic review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Prosthet Dent 2023; 130(6): 816- 824
Fairness of machine learning algorithms for predicting foregone preventive dental care for adults	JAMA Netw Open 2023; 6 (11): e2341625



PERIODONTOLOGY: ARTIFICIAL INTELLIGENCE & ROBOTICS

Identifying predictors of tooth loss using a rule-based machine learning approach: A retrospective study at university-setting clinics	J Periodontol 2023; 94(10): 1231- 1242
Efficacy of artificial intelligence in the detection of periodontal bone loss and classification of periodontal diseases: A systematic review [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 (9): 795- 804
Development of a machine learning multiclass screening tool for periodontal health status based on non-clinical parameters and salivary biomarkers	J Clin Periodontol 2023; Sep 11 [Early view]
Suitability of machine learning models for prediction of clinically defined Stage III/IV periodontitis from questionnaires and demographic data in Danish cohorts	J Clin Periodontol 2023; Sep 10 [Early view]
Efficiency and accuracy of artificial intelligence in the radiographic detection of periodontal bone loss: A systematic review	Imaging Sci Dent 2023; 53(3): 193- 198
Detection of tooth numbering, frenulum attachment, gingival overgrowth, and gingival inflammation signs on dental photographs using convolutional neural network algorithms: a retrospective study [can be accessed on DOSS free by logging in on this page]	Quintessence Int 2023; 54(8): 680-693
Evaluation of an artificial intelligence system for the diagnosis of apical periodontitis on digital panoramic images	Nigerian J Clin Pract 2023; 26(8): 1085-1090
Improving periodontal disease management with artificial intelligence [can be accessed on DOSS free by logging in on this page]	Compendium Contin Educ Dent 2023; 44(6): e1-e4
Development and international validation of logistic regression and machine-learning models for the prediction of 10-year molar loss	J Clin Peridontol 2023; 50(3): 348- 357
Accuracy of artificial intelligence-based photographic detection of gingivitis	Int Dent J 2023; 73(5): 724-730
Automatic recognition of teeth and periodontal bone loss measurement in digital radiographs using deep-learning artificial intelligence	J Dent Sci 2023; 18(3): 1301-1309
digital radiographs using deep-learning artificial intelligence	
Dentronics: tooth cleaning with a tactile collaborative robot an in vitro proof of concept [can be accessed on DOSS free by logging in on this page]	Int J Computerized Dent 2023; 26 (2): 167-174
Dentronics: tooth cleaning with a tactile collaborative robot an in vitro	•
Dentronics: tooth cleaning with a tactile collaborative robot an in vitro proof of concept [can be accessed on DOSS free by logging in on this page] Determination of the stage and grade of periodontitis according to the current classification of periodontal and peri-implant diseases and	(2): 167-174 J Periodont Implant Sci 2023; 53(1):
Dentronics: tooth cleaning with a tactile collaborative robot an in vitro proof of concept [can be accessed on DOSS free by logging in on this page] Determination of the stage and grade of periodontitis according to the current classification of periodontal and peri-implant diseases and conditions (2018) using machine learning algorithms	(2): 167-174 J Periodont Implant Sci 2023; 53(1): 38-53



PERIODONTOLOGY: ARTIFICIAL INTELLIGENCE & ROBOTICS

Systematic comparison of machine learning algorithms to develop and validate predictive models for periodontitis	J Clin Periodontol 2022; 49(10): 958- 969
Application of deep machine learning for the radiographic diagnosis of periodontitis [can be accessed on DOSS free by logging in on this page]	Clin Oral Investig 2022; 26(11): 6629- 6637
Deep learning in periodontology and oral implantology: A scoping review https://onlinelibrary.wiley.com/doi/10.1111/jcpe.14023 [can be accessed on DOSS free by logging in on this page]	J Periodontol Res 2022; 57(5): 942- 951
A generative adversarial inpainting network to enhance prediction of periodontal clinical attachment level	J Dent 2022; 123: 104211
Effects of artificial intelligence-assisted dental monitoring intervention in patients with periodontitis: A randomized controlled trial [Accessible from the Wiley link on this page]	J Clin Periodontol 2022; 49(10): 988- 998
Estimation of alveolar bone loss in periodontitis using machine learning	Int Dent J 2022; 72(5): 621-627
Use of the deep learning approach to measure alveolar bone level [Accessible from the Wiley link on this page]	J Clin Periodontol 2022; 49(3): 260- 269
Artificial intelligence for caries and periapical periodontitis detection [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2022; 122: 104107
Role of robotics and artificial intelligence in oral health and preventive dentistry – knowledge, perception and attitude of dentists	Oral Health Prev Dent 2021; 19(1): 353-363
Automatic detection of periodontal compromised teeth in digital panoramic radiographs using faster regional convolutional neural networks	Imaging Dent Sci 2020; 50(2): 169- 174