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Evaluating generative AI (Microsoft Copilot) as an adjunctive decision-support system in oral and maxillofacial radiology: a retrospective study	Oral 2026; 6(1): 10
Artificial intelligence in panoramic radiography interpretation: a glimpse into the state-of-the-art radiologic examination method [can be accessed on DOSS free by logging in on this page]	Int J Comput Dent 2025; 28(4): 309-321
Artificial intelligence in the study of oral lichen planus characteristics: a review	BDJ Open 2025; 11: 91
An annotated clinical image dataset for AI classification of malignant and potentially malignant oral lesions	BDJ (2025). https://doi.org/10.1038/s41415-025-9007-6
Evaluating YOLO for dental caries diagnosis: a systematic review and meta-analysis [Log in to the BDA home page and follow the link to the BDJ Portfolio to access]	EBD 2025; 26: 176
Development of a YOLOv8-based deep learning model for detecting and segmenting dental restorations and dental applications in panoramic radiographs of mixed dentition [Log in to the BDA home page and follow the link to the BDJ Portfolio to access]	BDJ (2025). https://doi.org/10.1038/s41415-025-9009-4
The accuracy and speed of artificial intelligent cephalometric software compared to computer and paper tracing in patients with cleft lip and palate	BDJ (2025). https://doi.org/10.1038/s41415-025-8877-y
Ethical insights into AI-driven caries detection: a scoping review	BDJ Open 2025; 11: 78
Deep convolutional neural networks for early detection of interproximal caries using bitewing radiographs: A systematic review [Log in to the BDA home page and follow the link to the BDJ Portfolio to access]	EBD 2025; 26 (2): 117
The potential of artificial intelligence in the early detection of systemic diseases during routine dental care [Log in to the BDA home page and follow the link to the BDJ Portfolio to access]	BDJ 2025; 239 (3): 168-174
Deep learning for detecting periapical bone rarefaction in panoramic radiographs: a systematic review and critical assessment (request using https://www.smartsurvey.co.uk/s/PJHMV/)	Dentomaxillofac Radiol 2025; 54 (6): 405-19
The effectiveness of a novel artificial intelligence (AI) model in detecting oral and dental diseases	BDJ Open 2025; 11: 62
Temporomandibular joint assessment in MRI images using artificial intelligence tools: where are we now? A systematic review (request using https://www.smartsurvey.co.uk/s/PJHMV/)	DMFR 2025; 54 (1): 1-11
Artificial intelligence and emerging technologies in diagnosis of oral potentially malignant disorders	BDJ Team 2024; 11(10): 454-456

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Should artificial intelligence be making a clinical diagnosis or a recommendation for the treating dentist to review? [Log in to the BDA home page and follow the link to the BDJ Portfolio to access]	BDJ In Practice 2024; 37(11): 428-429
In discussion: Using AI to detect dental disease with radiography [Log in to the BDA home page and follow the link to the BDJ Portfolio to access]	BDJ In Practice 2024; 37(11): 416-417
Deep learning system for the differential diagnosis of oral mucosal lesions through clinical photographic imaging	J Dent Sci 2024; online 28 Oct doi.org/10.1016/j.jds.2024.10.019
Artificial intelligent-driven decision-making for automating root fracture detection in periapical radiographs	BDJ Open 2024; 10: 76
Synthetic, non-person related panoramic radiographs created by generative adversarial networks in research, clinical, and teaching applications	J Dentistry 2024; 146: 105042
Fully automated deep learning model for detecting proximity of mandibular third molar root to inferior alveolar canal using panoramic radiographs [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Oral Surg Oral Med Oral Pathol Oral Radiol 2024; 137 (6): 671-8
Tooth numbering and classification on bitewing radiographs: an artificial intelligence pilot study [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Oral Surg Oral Med Oral Pathol Oral Radiol 2024; 137 (6): 679-89
Accuracy of manual and artificial intelligence-based superimposition of cone-beam computed tomography with digital scan data, utilizing an implant planning software: A randomized clinical study [Accessible from the Wiley link on this page]	Clin Oral Implants Res 2024; online 10 June doi.org/10.1111/clr.14313
Surveying the landscape of diagnostic imaging in dentistry's future: Four emerging technologies with promise [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Am Dent Assoc 2024; 155 (5): 364-78
Automated permanent tooth detection and numbering on panoramic radiograph using a deep learning approach [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Oral Surg Oral Med Oral Pathol Oral Radiol 2024; 137 (5): 537-44
Deep learning for automatic detection of cephalometric landmarks on lateral cephalometric radiographs using the Mask Region-based Convolutional Neural Network: a pilot study [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Oral Surg Oral Med Oral Pathol Oral Radiol 2024; 137 (5): 554-62
Assessment of accuracy and reproducibility of cephalometric identification performed by 2 artificial intelligence-driven tracing applications and human examiners [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Oral Surg Oral Med Oral Pathol Oral Radiol 2024; 137 (4): 431-40

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[Panoramic imaging errors in machine learning model development: a systematic review](#)	DMFR 2024; 53 (3): 165-72
[Artificial intelligence-based automated preprocessing and classification of impacted maxillary canines in panoramic radiographs](#)	DMFR 2024; 53 (3): 173-7
[Artificial intelligence for radiographic imaging detection of caries lesions: a systematic review](#)	BMC Oral Health 2024; 24: Art 274
[Deep learning for tooth identification and numbering on dental radiography: a systematic review and meta-analysis](#)	DMFR 2024; 53 (1): 5-21
Artificial intelligence and dental panoramic radiographs: where are we now? [Log in to the [BDA home page](#) and follow the link to the BDJ and then EBD to access]	EBD 2024; Jan 25 [Early view]
[A novel collaborative learning model for mixed dentition and fillings segmentation in panoramic radiographs](#)	J Dent 2024; 140: 104779
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
[Determining the reliability of diagnosis and treatment using artificial intelligence software with panoramic radiographs](#)	Imaging Dent Sci 2023; 53(3): 199-208
An artificial intelligence model for instance segmentation and tooth numbering on orthopantomograms [can be accessed on DOSS free by logging in [on this page](#)]	Int J Computerized Dent 2023; 26(4): 301-309
Quantitative level determination of fixed restorations on panoramic radiographs using deep learning [can be accessed on DOSS free by logging in [on this page](#)]	Int J Computerized Dent 2023; 26(4): 285-299
[Applications of artificial intelligence in the analysis of dental panoramic radiographs: an overview of systematic reviews](#)	DMFR 2023; 52 (7): 20230284
[Artificial intelligence applications for the radiographic detection of periodontal disease: a scoping review](#)	J Calif Dent Assoc 2023; 51(1): 2206301
[Accuracy of artificial intelligence-based photographic detection of gingivitis](#)	Int Dent J 2023; 73(5): 724-730
[Age determination on panoramic radiographs using the Kvaal method with the aid of artificial intelligence](#)	DMFR 2023; 52(3): 20220363
[Detection of the separated root canal instrument on panoramic radiograph: a comparison of LSTM and CNN deep learning methods](#)	DMFR 2023; 52(3): 20220209

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Federated vs local vs central deep learning of tooth segmentation on panoramic radiographs [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2023; 135: 104556
The impact of dental artificial intelligence for radiograph analysis [can be accessed on DOSS free by logging in on this page]	Compendium Contin Educ Dent 2023; 44(1): e1-e4
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Application of deep learning artificial intelligence technique to the classification of clinical orthodontic photos	BMC Oral Health 2022; 22: Art 454
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Evaluation of a deep learning system for automatic detection of proximal surface dental caries on bitewing radiographs [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Oral Surg Oral Med Oral Pathol Oral Radiol 2022; 134 (2): 262-70
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Automated detection of posterior restorations in permanent teeth using artificial intelligence intraoral photographs [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2022; (121): 104124
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Evaluation of an Artificial Intelligence web-based software to detect and classify dental structures and treatments in panoramic radiographs [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2022; 126: 104301
Can dental fillings affect the performance of an AI-driven innovative tool for automatic tooth segmentation in cone-beam computed tomography: A validation study?	J Dent 2022; 121: 103990
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Caries detection on intraoral images using artificial intelligence	J Dent Res 2021 – pub online Aug 20th
Artificial intelligence system for automatic deciduous tooth detection and numbering in panoramic radiographs (request using https://www.smartsurvey.co.uk/s/PJHMV/)	Dentomaxillofac Radiol 2021; 50(6): 20200172
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Automated feature detection in dental periapical radiographs by using deep learning [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Oral Surg Oral Med Oral Path Oral Radiol 2021; 13(6): 711-720
Attitude of Brazilian dentists and dental students regarding the future role of artificial intelligence in oral radiology: a multicenter survey	Dentomaxillofac Radiol 2021; 50(5): 20200461
Artificial intelligence for fast and accurate 3-dimensional tooth segmentation on cone-beam computed tomography [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Endod 2021; 47(5): 827-835
Cost effectiveness of artificial intelligence for proximal caries detection	J Dent Res 2021; 100(4): 369-376
Detecting white spot lesions on dental photography using deep learning: A pilot study [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2021; (107): 103615
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Evaluation of automated cephalometric analysis based on the latest deep learning method	Angle Orthod 2021; 91(3): 329-335