DENTAL CARIES: AI & ROBOTICS

Uncovering dental caries heterogeneity in NHANES using machine learning	J Dent Res 2025; online 9 Dec 10.1177/00220345251398027
Development and evaluation of a multi-model stacking approach for caries risk assessment in adults using supervised machine learning	BDJ (2025). doi.org 10.1038/s41415-025-9105-5
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AI-driven dental caries management strategies: from clinical practice to professional education and public self care	Int Dent J 2025; 75(4): 100827
Artificial intelligence in early childhood caries detection and prediction: a systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Pediatr Dent 2024; 46(6): 385-394
Validation of artificial intelligence application for dental caries diagnosis on intraoral bitewing and periapical radiographs	J Dent 2024; 147: 105105
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Detection of caries around restorations on bitewings using deep learning	J Dent 2024; 143: 104886
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Dental student application of artificial intelligence technology in detecting proximal caries lesions [Accessible from the Wiley link on this page]	J Dent Educ 2024; Jan 10 [Ahead of print]
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Detection of the pathological exposure of pulp using an artificial intelligence tool: a multicentric study over periapical radiographs	BMC Oral Health 2023; 23: Art 553
Prediction of pulp exposure before caries excavation using artificial intelligence: Deep learning-based image data versus standard dental radiographs	J Dent 2023; 138: 104732
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Influence of artificial intelligence-driven diagnostic tools on treatment decision-making in early childhood caries: A systematic review of accuracy and clinical outcomes	Dent J (Basel) 2023; 11(9): 214
Dental caries risk assessment in children 5 years old and under via machine learning	Dent J (Basel) 2022; 10(9): 164
Predicting treatment nonresponse in Hispanic/Latino children receiving silver diamine fluoride for caries arrest: A pilot study using machine learning	Front Oral Health 2021; 2: 695759
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Feasibility of deep learning for dental caries classification in bitewing radiographs based on the ICCMS ™ radiographic scoring system [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 2023; 135(2): 272-281
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