



## ORAL CANCER: ARTIFICIAL INTELLIGENCE & ROBOTICS

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| Molecular biomarkers and machine learning in oral cancer: a systematic review and meta-analysis [Accessible from the Wiley link <a href="#">on this page</a> ]                                                                                                                                                | Oral Dis 2025; online 13 Oct<br>doi.org/10.1111/odi.70121          |
| <a href="#">Recent advancements in artificial intelligence-powered cancer prediction from oral microbiome</a>                                                                                                                                                                                                 | Perio 2000 2025; online 11 Sep<br>doi.org/10.1111/prd.70000        |
| <a href="#">Artificial intelligence and emerging technologies in diagnosis of oral potentially malignant disorders</a>                                                                                                                                                                                        | BDJ Team 2024; 11(10): 454-456                                     |
| A deep learning system to predict epithelial dysplasia in oral leukoplakia (request using <a href="https://www.smartsurvey.co.uk/s/PJHMY/">https://www.smartsurvey.co.uk/s/PJHMY/</a> )                                                                                                                       | J Dent Res 2024; online 9 Oct<br>doi.org/10.1177/00220345241272048 |
| <a href="#">Application of neural networks for the detection of oral cancer: A systematic review</a>                                                                                                                                                                                                          | Dent Med Probl 2023; Apr 26 [Ahead of print]                       |
| <a href="#">Clinicians' perception of oral potentially malignant disorders: a pitfall for image annotation in supervised learning</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 Surg Oral Med Oral Pathol Oral Radiol 2023; 136(3): 315-321   |
| <a href="#">Reconstruction of head and neck oncological soft tissue defects post-resection using robotic surgery: a systematic review of the current literature</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] | Br J Oral Maxillofac Surg 2023; 61(8): 514-521                     |
| <a href="#">Malignant and non-malignant oral lesions classification and diagnosis with deep neural networks</a>                                                                                                                                                                                               | J Dent 2023; 137: 104657                                           |
| <a href="#">Early detection of squamous cell carcinoma of the oral tongue using multidimensional plasma protein analysis and interpretable machine learning</a>                                                                                                                                               | J Oral Pathol Med 2023; 52(7): 637-643                             |
| <a href="#">Can artificial intelligence (AI) assist in the diagnosis of oral mucosal lesions and/or oral cancer? [Editorial]</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 Surg Oral Med Oral Pathol Oral Radiol 2022; 134(4): 413-414   |
| <a href="#">The effectiveness of artificial intelligence in detection of oral cancer</a>                                                                                                                                                                                                                      | Int Dent J 2022; 72(4): 436-447                                    |
| Histopathology-based diagnosis of oral squamous cell carcinoma using deep learning [can be accessed on DOSS free by logging in <a href="#">on this page</a> ]                                                                                                                                                 | J Dent Res 2022; 101(11): 1321-1327                                |
| <a href="#">Development of a radiomics and machine learning model for predicting occult cervical lymph node metastasis in patients with tongue cancer</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 Surg Oral Med Oral Pathol Oral Radiol 2022; 134(1): 93-101    |
| <a href="#">Segmentation of metastatic cervical lymph nodes from CT images of oral cancers using deep-learning technology</a>                                                                                                                                                                                 | Dento-Maxillofac-Radiol 2022; 51(4): 20210515                      |
| Artificial intelligence – can it be used to outsmart oral cancer? [Log in to the <a href="#">BDA home page</a> and follow the link to the BDJ to access]                                                                                                                                                      | EBD 2022; 23(1): 12-13                                             |



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| <a href="#">Automatic discrimination of Yamamoto-Kohama classification by machine learning approach for invasive pattern of oral squamous cell carcinoma using digital microscopic images: a retrospective study</a>                                                                                       | Oral Surg Oral Med Oral Pathol Oral Radiol 2022; 133(4): 441-452 |
| <a href="#">Performance of deep convolutional neural network for classification and detection of oral potentially malignant disorders in photographic images</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] | Int J Oral Maxillofac Surg 2022; 51(5): 699-704                  |
| Automatic classification and detection of oral cancer in photographic images using deep learning algorithms [can be accessed on DOSS free by logging in <a href="#">on this page</a> ]                                                                                                                     | J Oral Pathol Med 2021; 50(9): 911-918                           |
| Application of artificial intelligence and machine learning for prediction of oral cancer risk [can be accessed on DOSS free by logging in <a href="#">on this page</a> ]                                                                                                                                  | J Oral Pathol Med 2021; 50(5): 444-450                           |
| Comparison of machine learning algorithms for the prediction of five-year survival in oral squamous cell carcinoma [can be accessed on DOSS free by logging in <a href="#">on this page</a> ]                                                                                                              | J Oral Pathol Med 2021; 50(4): 378-384                           |
| <a href="#">Deep machine learning for oral cancer: From precise diagnosis to precision medicine</a>                                                                                                                                                                                                        | Front Oral Health 2021; 2: 794248                                |
| Machine learning and treatment outcome prediction for oral cancer [can be accessed on DOSS free by logging in <a href="#">on this page</a> ]                                                                                                                                                               | J Oral Pathol Med 2020; 49(10): 977-985                          |
| <a href="#">Machine learning predicts lymph node metastasis in early-stage oral tongue squamous cell carcinoma</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 Oral Maxillofac Surg 2020; 78(12): 2208-2218                   |
| Improvement of oral cancer screening quality and reach: The promise of artificial intelligence [can be accessed on DOSS free by logging in <a href="#">on this page</a> ]                                                                                                                                  | J Oral Pathol Med 2020; 49(8): 727-730                           |
| <a href="#">Improving oral cancer outcomes with imaging and artificial intelligence</a>                                                                                                                                                                                                                    | J Dent Res 2020; 99(3): 241-248                                  |
| A personalized computational model predicts cancer risk level of oral potentially malignant disorders and its web application for promotion of non-invasive screening [can be accessed on DOSS free by logging in <a href="#">on this page</a> ]                                                           | J Oral Pathol Med 2020; 49(5): 417-426                           |