



**ORAL AND MINOR ORAL SURGERY:
AI & ROBOTICS**

Artificial intelligence in oral and maxillofacial surgery: a scoping review of clinical applications, ethical challenges, and legal considerations	Int J Oral Maxillofac Surg 2026; online 5 Mar 10.1016/j.ijom.2026.02.020
AI-assisted translation in oral and maxillofacial surgery: A comparative evaluation	J Stomatol Oral Maxillofac Surg 2026; 127(3): 102717
Artificial intelligence and statistical analysis in oral and maxillofacial surgery research: an ally, not a replacement [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Oral Maxillofac Surg 2026; 84(2): 150-152
Artificial intelligence in oral and maxillofacial surgery: transforming practice, precision, and patient care [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Oral Maxillofac Surg 2026; 84(1): 3-5
Applications of artificial intelligence in tooth extraction: A systematic review	J Dent Sci 2026; 21 (1): 49-56
From static to robotic: evolving navigation systems in oral and maxillofacial surgery [Review] [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 2026; 141(2): e1-e9
Artificial intelligence for laser-assisted oral surgery: a narrative review of current trends and future perspectives [Review] [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Dent 2026; 164: 106202
AI-driven CBCT analysis for surgical decision-making and mucosal damage prediction in sinus lift surgery for patients with low RBH	Int Dent J 2025; 75(6): 103931
Segmenting beyond the imaging data: creation of anatomically valid edentulous mandibular geometries for surgical planning using artificial intelligence	Clin Oral Investig 2025; 29(11): 501
Evaluation of postoperative bleeding risk after dental extractions in patients on antithrombotic medication: A comparison of machine learning and clinical experience	Clin Oral Investig 2025; 29(11): 531
Artificial intelligence for the oral and maxillofacial surgeon: a narrative review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Oral Maxillofac Surg 2025; online 24 Dec doi.org/10.1016/j.joms.2025.12.013
Can Large Language Models take clinical anamnesis? comparative evaluation of ChatGPT-4o, Claude, and Gemini in diagnostic reasoning through case-based questioning in oral and maxillofacial disorders [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 2025; online 8 Nov: 102644
Artificial intelligence-enabled automatic segmentation of impacted mandibular third molars: A comprehensive comparison of multiple algorithms	J Dent Sci 2025; online 8 Nov: doi.org/10.1016/j.jds.2025.10.032
The transformative potential of artificial intelligence in oral and maxillofacial surgery [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Oral Maxillofac Surg 2025; 83(4): 402-405



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<p>ChatGPT and trainee performances in the management of maxillofacial patients [free to members on Science Direct. If you do not have a login email library@bda.org to request one]</p>	J Stomatol Oral Maxillofac Surg 2025; 126(3): 102090
<p>Role of artificial intelligence in treatment planning and outcome prediction of jaw corrective surgeries by using 3-D imaging: a systematic review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]</p>	Oral Surg Oral Med Oral Pathol Oral Radiol 2025; 139(3): 299-310
<p>Robotic surgery: advancements and applications of robotic surgery in craniomaxillofacial surgery [Review] [free to members on Science Direct. If you do not have a login email library@bda.org to request one]</p>	Oral Maxillofac Surg Clin N Am 2025; 37(3): 543-552
<p>The impact of the large language model ChatGPT in oral and maxillofacial surgery: a systematic review [free to members on Science Direct. If you do not have a login email library@bda.org to request one]</p>	Br J Oral Maxillofac Surg 2025; 63(5): 357-362
<p>Evaluating artificial intelligence chatbots in oral and maxillofacial surgery board exams: performance and potential [free to members on Science Direct. If you do not have a login email library@bda.org to request one]</p>	J Oral Maxillofac Surg 2025; 83(3): 382-389
<p>Development and validation of a deep learning algorithm for the classification of the level of surgical difficulty in impacted mandibular third molar surgery [free to members on Science Direct. If you do not have a login email library@bda.org to request one]</p>	Int J Oral Maxillofac Surg 2025; 54(5): 452-460
<p>Deep learning for predicting the difficulty level of removing the impacted mandibular third molar</p>	Int Dent J 2025; 75(1): 144-150
<p>Evaluating AI-Generated informed consent documents in oral surgery: A comparative study of ChatGPT-4, Bard gemini advanced, and human-written consents</p>	J Cranio-Maxill-Fac Surg 2025; 53(1): 18-23
<p>Empowering surgeons: will artificial intelligence change oral and maxillofacial surgery? [Review] [free to members on Science Direct. If you do not have a login email library@bda.org to request one]</p>	Int J Oral Maxillofac Surg 2025; 54(2): 179-190
<p>What impact could artificial intelligence have on oral surgery in the next five years? [Log in to the BDA home page and follow the link to the BDJ Portfolio to access]</p>	BDJ In Practice 2024; 37(11): 418-420
<p>Deep learning-based facial and skeletal transformations for surgical planning [can be accessed on DOSS free by logging in on this page]</p>	J Dent Res 2024; 103(8): 809-819
<p>Evaluation of AI-generated responses by different artificial intelligence chatbots to the clinical decision-making case-based questions in oral and maxillofacial surgery [free to members on Science Direct. If you do not have a login email library@bda.org to request one]</p>	Oral Surg Oral Med Oral Pathol Oral Radiol 2024; 137 (6): 587-93



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Autologous transplantation tooth guide design based on deep learning [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Oral Maxillofac Surg 2024; 82 (3): 314-24
Robotic surgery: A pending subject in oral and maxillofacial surgery	J Dent Sci 2024; online 22 Jan doi.org/10.1016/j.jds.2024.01.006
The use of artificial intelligence in third molar surgery risk assessment (request using https://www.smartsurvey.co.uk/s/PJHMV/)	Dental Update 2024; 51 (1): 28-33
The impact and opportunities of large language models like ChatGPT in oral and maxillofacial surgery: a narrative review	Int J Oral Maxillofac Surg 2024; 53 (1): 78-88
Is ChatGPT a reliable source of scientific information regarding third-molar surgery? [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; Jan 08 [Early view]
Can ChatGPT be used in oral and maxillofacial surgery? [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 2023; 124(5): 101471
Machine learning algorithm based on jaw feature points assist complex maxillary and mandibular reconstruction [free to members on Science Direct. If you do not have a login email	J Stomatol Oral Maxillofac Surg 2023; 124(1): 101343
Risk assessment of inferior alveolar nerve injury after wisdom tooth removal using 3D AI-driven models: A within-patient study	J Dent 2023; 139: 104765
Preinterventional third-molar assessment using robust machine learning	J Dent Res 2023; online 9 Nov doi.org/10.1177/0022034523120078
Positional assessment of lower third molar and mandibular canal using explainable artificial intelligence	J Dent 2023; (133): 104519
Artificial intelligence in oral and maxillofacial surgery education [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Oral Maxillofac Surg Clin N Am 2022; 34 (4): 585-91
A review on the application of deep learning for CT reconstruction, bone segmentation and surgical planning in oral and maxillofacial surgery	Dento-Maxillofacial Radiology 2022; 51(7): 20210437
Artificial intelligence: the future of maxillofacial prognosis and diagnosis? [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Oral Maxillofac Surg 2021; 79 (7): 1396-7
Present and future trends in transoral surgical intervention: Maximal surgery, invasive surgery, and transoral robotic surgery [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Oral Maxillofac Surg Clin N Am 2021; 33(2): 262-273
Welcome the "new kid on the block" into the family: artificial intelligence in oral and maxillofacial surgery [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Br J Oral Maxillofac Surg 2020; 58(1): 83-84