



**DENTAL IMPLANTS:
ARTIFICIAL INTELLIGENCE & ROBOTICS:**

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| AI-powered intraoperative navigation photogrammetry for complete-arch implant impression and immediate loading with a 3D-printed temporary prosthesis: a prospective clinical study [Accessible from the Wiley link on this page] | J Esthet Restor Dent 2026; online 25 February |
| Artificial intelligence-assisted treatment planning in an interdisciplinary rehabilitation in the esthetic zone | J Esthet Restor Dent 2026; 38(1): 15-24 |
| Accuracy of robotic computer-assisted implant surgery in clinical dental implant placement: A systematic review and meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one] | J Dent 2026; 166: 106321 |
| Clinical feasibility of AI-driven automated virtual dental implant placement: a cross-sectional comparative study | Clin Implant Dent Rel Res 2025; 27(6): e70111 |
| Accuracy of robotic versus fully guided static computer-assisted implant surgery with transcrestal sinus floor elevation [Accessible from the Wiley link on this page] | Clin Implant Dent Rel Res 2025; 27(6): e70113 |
| Patients' awareness, trust, and acceptance of robot-assisted dental implant surgery: a cross-sectional survey [Accessible from the Wiley link on this page] | Clin Implant Dent Rel Res 2025; 27(6): e70109 |
| Harnessing AI in prosthodontics and implant dentistry: An umbrella review of systematic evidence | J Prosthodont 2026; online 14 Jan doi.org/10.1111/jopr.70091 |
| Contemporary applications of robotic systems in dental implantology: a review | Int Dent J 2026; 76 (1): 109335 |
| Advancements of artificial intelligence algorithms in predicting dental implant prognosis from radiographic images: 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 2025; 134(6): 2177-2188 |
| The diagnostic performance of AI based on dental radiographs in predicting marginal bone loss around dental implants: a systematic review and meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one] | J Prosthet Dent 2025; 134(6): 2190.e1-2190.e11 |
| Dental implant planning using artificial intelligence: a systematic review and meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one] | J Prosthet Dent 2025; 134(5): 1631.e1-1631.e8 |
| Accuracy assessment of robot-assisted dental implant surgery: an umbrella review of systematic reviews [free to members on Science Direct. If you do not have a login email library@bda.org to request one] | J Prosthet Dent 2025; 134(5): 1630.e1-1630.e12 |
| In vivo accuracy of autonomous dental implant robotic surgery: systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page] | Int J Oral Maxillofac Implant 2025; 40(6): 683-690 |
| Artificial intelligence segmentation errors in implant planning software programs: an overview [Accessible from the Wiley link on this page] | Clin Implant Dent Rel Res 2025; 27(5): e70095 |



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| Performance of artificial intelligence-based chatbots (ChatGPT-3.5 and ChatGPT-4.0) answering the International Team of Implantology exam questions [Accessible from the Wiley link on this page] | J Esthet Restor Dent 2025; 37(11): 2412-2416 |
| Advancements in artificial intelligence algorithms for dental implant identification: A systematic review with meta-analysis [free to members on Science Direct. If you do not have a login email library@bda.org to request one] | J Prosthet Dent 2025; 134(4): 1089-1098 |
| The role of artificial intelligence in implant dentistry: a systematic review | Int J Oral Maxillofac Surg 2025; 54(11): 1098-1122 |
| Clinical evaluation of AI-based three-dimensional dental implant planning: A multicenter study [free to members on Science Direct. If you do not have a login email library@bda.org to request one] | J Dent 2025; 162: 106066 |
| Current status and future perspectives of robot-assisted dental implant surgery | Int Dent J 2025; 75(3): 1608-1620 |
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| Comparison between conventional and artificial intelligence-assisted setup for digital implant planning: accuracy, time-efficiency, and user experience [Accessible from the Wiley link on this page] | Clin Implant Dent Relat Res 2024; online 21 November |
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| A transcrestal sinus floor elevation strategy based on a haptic robot system: An in vitro study [Accessible from the Wiley link on this page] | Clin Implant Dent Relat Res 2024; 26(6): 1270-1278 |
| Comparative analysis of dental implant placement accuracy: Semi-active robotic versus free-hand techniques: A randomized controlled clinical trial | Clin Implant Dent Relat Res 2024; 26(6): 1149-1161 |
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| Comparison of implant precision with robots, navigation, or static guides (request using https://www.smartsurvey.co.uk/s/PJHMV/) | J Dent Res 2024; online 25 Nov doi.org/10.1177/0022034524128556 |
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| Deep learning in the overall process of implant prosthodontics: A state-of-the-art review [Accessible from the Wiley link on this page] | Clin Implant Dent Relat Res 2024; 26(5): 835-846 |
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| Zygomatic implant placement using a robot-assisted flapless protocol: proof of concept [free to members on Science Direct. If you do not have a login email library@bda.org to request one] | Int J Oral Maxillofac Surg 2023; 52(6): 710-715 |
| Semi-autonomous two-stage dental robotic technique for zygomatic implants: An in vitro study [free to members on Science Direct. If you do not have a login email library@bda.org to request one] | J Dent 2023; 138: 104687 |
| Accuracy and efficiency of robotic dental implant surgery with different human-robot interactions: An in vitro study | J Dent 2023; 137: 104642 |
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| Accuracy of implant site preparation in robotic navigated dental implant surgery [Accessible from the Wiley link on this page] | Clin Implant Dent Relat Res 2023; 25(5): 881-891 |
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| Effect of the number and distribution of fiducial markers on the accuracy of robot-guided implant surgery in edentulous mandibular arches: An in vitro study [free to members on Science Direct. If you do not have a login email library@bda.org to request one] | J Dent 2023; (134): 104529 |
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| Artificial intelligence in identifying dental implant systems on radiographs [can be accessed on DOSS free by logging in on this page] | Int J Periodont Restor Dent 2023; 43(3): 363-368 |
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| Accuracy of dental implant surgery using dynamic navigation and robotic systems: An in vitro study [free to members on Science Direct. If you do not have a login email library@bda.org to request one] | J Dent 2022; 123: 194170 |
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| Accuracy of haptic robotic guidance of dental implant surgery for completely edentulous arches [free to members on Science Direct. If you do not have a login email library@bda.org to request one] | J Prosthet Dent 2022; 128(4): 639-547 |
| Guided innovations: Robot-assisted dental implant surgery [free to members on Science Direct. If you do not have a login email library@bda.org to request one] | J Prosthet Dent 2022; 127(5): 673-674 |
| Robotic assisted drilling systems and prosthetically-driven implant rehabilitation: the present and future? [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 (11): 2183-5 |
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Development of an artificial intelligence model to identify a dental implant from a radiograph [can be accessed on DOSS free by logging in [on this page](#)] Int J Oral Maxillofac Implants 2020; 36(6): 1077-1082

Accuracy and deviation analysis of static and robotic guided implant surgery: a case study [can be accessed on DOSS free by logging in [on this page](#)] Int J Oral Maxillofac Implants 2020; 36(5): e86-e90