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References

1. Nulty A. A literature review on prosthetically designed guided implant placement and the factors influencing dental implant success. *Br Dent J.* 2024;236:169–180.
2. Liens A, Fabregue D, Courtois N, Chauvin B, Chevalier J. Multi-scale microstructural and mechanical characterization of titanium and titanium alloys used in dentistry. *Clin Oral Implants Res.* 2015;26(Suppl 12):50.
3. International Organization for Standardization. ISO 5832-2:2018: Implants for surgery—metallic materials—Part 2: unalloyed titanium. 4th ed. Geneva: ISO; 2018.
4. Schubert O, Schweiger J, Stimmelmayr M. Digital implant planning and guided implant surgery – workflow and reliability. *Br Dent J.* 2019;226:101–108.
5. López-Cedrún JL, Martínez-Rodríguez N, Peña-López JM. Full digital workflow for prosthetic-driven implant planning: from virtual design to final restoration. *J Dent Implant Res.* 2022;41(4):145–152.
6. Zhang X, Bhandari S, Alharbi A. Digital implantology: review of virtual planning software for prosthetic-driven guided implant surgery. *BMC Oral Health.* 2022;22:343.
7. Editorial. Optimise dental implant treatment with digital workflows. *Br Dent J.* 2020;228:133.
8. Talesara V, Bennani V, Aarts J, Ratnayake J, Khurshid Z, Brunton P. Accuracy of digitally coded healing abutments: a systematic review. *J Prosthet Dent.* 2024;132(6):682–690.
9. Kim JJ, Park JH, Choi JH. Accuracy of implant impression techniques with a scannable healing abutment: an in vitro study. *J Prosthet Dent.* 2021;125(6):903–909.
10. Lee J, Cho JH, Han JS. Complete-arch implant scans with standard scan bodies versus scannable healing abutments: a clinical accuracy study. *Int J Prosthodont.* 2025;38(2):120–128.
11. Alqahtani F, Mahesh L, Reddy M. Custom anatomic healing abutments for peri-implant soft tissue contouring: a clinical review. *J Indian Prosthodont Soc.* 2016;16(4):389–394.
12. Trisi P, Berardini M, Falco A. Osseodensification: an innovative technique with manifold gains. *J Clin Med.* 2023;12(22):7046.
13. Cassetta M, Giansanti M, Calasso S. Comparative assessment of primary stability using osseodensification versus conventional drilling: a systematic review. *J Prosthet Dent.* 2024;132(3):348–357.
14. Ravidà A, Barootchi S, Lin GH. Ultra-short implant for reduced bone volume. *Br Dent J.* 2018;224:911–916.
15. Felice P, Esposito M, Barausse C. Short (≤ 6 mm) and regular dental implants in the posterior maxilla: a review. *Int J Oral Implantol.* 2020;13(1):9–20.
16. Thoma DS, Pjetursson BE, Chen S. Short (≤ 6 mm) compared with ≥ 10 mm dental implants in partially edentulous patients: a systematic review. *J Clin Periodontol.* 2021;48(10):1273–1290.

17. Anitua E, Murias-Freijo A, Orive G. Long-term comparative outcomes of short implants: 10-year follow-up. *Dent J (Basel)*. 2024;12(1):12.
18. De Angelis P, Gasparro R, Franco V. Effectiveness of customised healing abutments in immediate implant sites: a prospective clinical trial. *J Clin Med*. 2025;14(3):886.
19. Sanz-Martín I, Martín C, Romanos G. A novel coded healing abutment for a simplified digital workflow: clinical and laboratory validation. *J Prosthet Dent*. 2024;132(4):560–567.
20. Cassetta M, Giansanti M, Calasso S. A comparative assessment of primary implant stability using osseodensification versus conventional drilling: a systematic review. *J Prosthet Dent*. 2024;132(3):348–357.
21. Trisi P, Berardini M, Falco A. Osseodensification: an innovative technique with manifold gains. *J Clin Med*. 2023;12(22):7046.
22. Ravidà A, Barootchi S, Lin GH. Ultra-short implant for reduced bone volume. *Br Dent J*. 2018;224:911–916.
23. Felice P, Esposito M, Barausse C. Short implants in the posterior maxilla: a review. *Int J Oral Implantol*. 2020;13(1):9–20.
24. Preiss L, Gauthier R, Richard H, Courtois L, Chopard-Lallier A-L, Fabregue D, Chevalier J, Courtois N. Bone mechanical behavior around dental implants: densification and deformation follow-up by in-situ computed tomography. *J Mech Behav Biomed Mater*. 2025;167:106966.