

Xive® インプラントシステムの 臨床記録

ザイブインプラントシステムは、10年以上にわたって臨床使用されてきた。インプラントおよびアバットメントの幅広い選択、2つの異なるインプラント-アバットメントの連結（インターナルヘックスとエクスターナルスクエア）、柔軟な治療プロトコールなど、いくつかの機能によりその柔軟な外科処置と汎用性の高い補綴処置が実現されている。

公表されているデータでは、ザイブインプラントは、次の症例において安全で予知性の高い治療であることを示している：オーバードンチャー¹⁻³、単歯修復⁴⁻¹⁷、および固定性の部分的あるいは全顎的な補綴物¹⁸⁻²⁴。さらに95～100%のインプラント生存率で予知性の高い結果が報告されている^{1-6, 8, 10, 14, 18-31}。また、即時負荷インプラント^{1, 5, 18, 19, 21-23, 26, 27, 29}や直径3.0 mmのインプラントに関する研究^{6, 14, 15, 17}でも同様の報告がなされている。さらに抜歯窩^{5, 13, 32, 33}や移植部位^{14, 34, 35}へ即時埋入されたインプラントの臨床結果も公表されている。

特許取得済みのザイブインプラントの骨をコンデンスするスレッドデザインと骨質に合わせた埋入窩形成プロトコールとの組合せにより、十分な初期固定が得られる^{32, 34, 36}。また、平均埋入トルク値は28.7～40.1 Ncmの範囲^{21-23, 32, 36}で、インプラント埋入時の平均ISQ値は61～74の範囲^{21-23, 32, 34, 36}で報告がなされている。また、細い直径3.0 mmのインプラント^{14, 17, 20, 32}や抜歯窩に埋入されたインプラント³²、移植部位に埋入されたインプラント³⁴などでも同様の値が報告されている。

機能1年後 (+0.1～-1.1 mm)^{1, 3, 5, 6, 10, 14, 18, 19, 31, 37}、2年後 (-0.9～-1.0 mm)^{26, 27}、3年後 (-0.53～-1.37 mm)^{8, 13, 14, 17, 21-23}、4年後 (-1.16 mm)²⁰、5年後 (-0.88～-1.9 mm)^{2-4, 29, 38}、10年後 (-1.27 mm)²⁸におけるザイブインプラント周囲の平均辺縁骨レベルの変化については、いくつかの臨床研究で報告されている。

1. Degidi M, Piattelli A. Comparative analysis study of 702 dental implants subjected to immediate functional loading and immediate nonfunctional loading to traditional healing periods with a follow-up of up to 24 months. *Int J Oral Maxillofac Implants* 2005;20(1):99-107. [Abstract in PubMed](#)
2. Heschl A, Payer M, Clar V, et al. Overdentures in the edentulous mandible supported by implants and retained by a Dolder bar: a 5-year prospective study. *Clin Impl Dent Rel Res* 2013;15(4):589-99. [Abstract in PubMed](#)
3. Geckili O, Mumcu E, Bilhan H. Radiographic evaluation of narrow diameter implants after 5 years of clinical function: a retrospective study. *J Oral Implantol* 2011;E-pub Feb 5, doi:10.1563/AAID-JOI-D-10-00158.1 [Abstract in PubMed](#)
4. Moeintaghavi A, Radvar M, Arab H, Boostani H, Ghiemi E. Evaluation of 3- to 8-year treatment outcomes and success rates with six implant brands in partially edentulous patients. *J Oral Implantol* 2012;38(s1):441-48. [Abstract in PubMed](#)
5. Redemagni M, Cremonesi S, Garlini G, Maiorana C. Soft tissue stability with immediate implants and concave abutments. *Eur J Esthet Dent* 2009;4(4):328-37. [Abstract in PubMed](#)
6. Oyama K, Kan JY, Rungcharassaeng K, Lozada J. Immediate provisionalization of 3.0-mm-diameter implants replacing single missing maxillary and mandibular incisors: 1-year prospective study. *Int J Oral Maxillofac Implants* 2012;27(1):173-80. [Abstract in PubMed](#)
7. Payer M, Kirmeier R, Jakse N, et al. Immediate provisional restoration of XiVE screw-type implants in the posterior mandible. *Clin Oral Implants Res* 2008;19(2):160-5. [Abstract in PubMed](#)
8. Merli M, Lombardini F, Esposito M. Vertical ridge augmentation with autogenous bone grafts 3 years after loading: resorbable barriers versus titanium-reinforced barriers. A randomized controlled clinical trial. *Int J Oral Maxillofac Implants* 2010;25(4):801-7. [Abstract in PubMed](#)
9. Merli M, Migani M, Esposito M. Vertical ridge augmentation with autogenous bone grafts: resorbable barriers supported by osteosynthesis plates versus titanium-reinforced barriers. A preliminary report of a blinded, randomized controlled clinical trial. *Int J Oral Maxillofac Implants* 2007;22(3):373-82. [Abstract in PubMed](#)
10. Nothdurft F, Pospiech P. Prefabricated zirconium dioxide implant abutments for single-tooth replacement in the posterior region: evaluation of peri-implant tissues and superstructures after 12 months of function. *Clin Oral Implants Res* 2010;21(8):857-65. [Abstract in PubMed](#)
11. Gehrke P, Lobert M, Dhom G. Reproducibility of the pink esthetic score--rating soft tissue esthetics around single-implant restorations with regard to dental observer specialization. *J Esthet Restor Dent* 2008;20(6):375-84; discussion 85. [Abstract in PubMed](#)
12. Cortes AR, Cortes DN. Nontraumatic bone expansion for immediate dental implant placement: an analysis of 21 cases. *Implant Dent* 2010;19(2):92-7. [Abstract in PubMed](#)
13. Degidi M, Nardi D, Piattelli A. Peri-implant tissue and radiographic bone levels in the immediately restored single-tooth implant: a retrospective analysis. *J Periodontol* 2008;79(2):252-9. [Abstract in PubMed](#)
14. Degidi M, Dapirle G, Piattelli A. RFA values of implants placed in sinus grafted and nongrafted sites after 6 and 12 months. *Clin Impl Dent Rel Res* 2009;11(3):178-82. [Abstract in PubMed](#)
15. Degidi M, Novaes AB, Jr., Nardi D, Piattelli A. Outcome analysis of immediately placed, immediately restored implants in the esthetic area: the clinical relevance of different interimplant distances. *J Periodontol* 2008;79(6):1056-61. [Abstract in PubMed](#)
16. Gehrke P, Degidi M, Lulay-Saad Z, Dhom G. Reproducibility of the implant crown aesthetic index--rating aesthetics of single-implant crowns and adjacent soft tissues with regard to observer dental specialization. *Clin Impl Dent Rel Res* 2009;11(3):201-13. [Abstract in PubMed](#)
17. Degidi M, Nardi D, Piattelli A. Immediate versus one-stage restoration of small-diameter implants for a single missing maxillary lateral incisor: a 3-year randomized clinical trial. *J Periodontol* 2009;80(9):1393-8. [Abstract in PubMed](#)
18. Degidi M, Dapirle G, Piattelli A. Implants inserted with low insertion torque values for intraoral welded full-arch prosthesis: 1-year follow-up. *Clin Impl Dent Rel Res* 2012;14(Supplement 1):e39-45. [Abstract in PubMed](#)
19. Degidi M, Nardi D, Piattelli A. Immediate loading of the edentulous maxilla with a final restoration supported by an intraoral welded titanium bar: a case series of 20 consecutive cases. *J Periodontol* 2008;79(11):2207-13. [Abstract in PubMed](#)
20. Degidi M, Nardi D, Piattelli A. Immediate restoration of small-diameter implants in cases of partial posterior edentulism: a 4-year case series. *J Periodontol* 2009;80(6):1006-12. [Abstract in PubMed](#)
21. Degidi M, Nardi D, Piattelli A. A comparison between immediate loading and immediate restoration in cases of partial posterior mandibular edentulism: a 3-year randomized clinical trial. *Clin Oral Implants Res* 2010;21(7):682-87. [Abstract in PubMed](#)
22. Degidi M, Nardi D, Piattelli A. Immediate definitive rehabilitation of the edentulous patient using an intraorally welded titanium framework: a 3-year prospective study. *Quintessence Int* 2010;41(8):651-9. [Abstract in PubMed](#)
23. Degidi M, Nardi D, Piattelli A. Immediate loading of the edentulous maxilla with a definitive restoration supported by an intraorally welded titanium bar and tilted implants. *Int J Oral Maxillofac Implants* 2010;25(6):1175-82. [Abstract in PubMed](#)
24. Degidi M, Nardi D, Piattelli A, Malevez C. Immediate loading of zygomatic implants using the intraoral welding technique: a 12-month case series. *Int J Periodontics Restorative Dent* 2012;32(5):e154-61. [Abstract in PubMed](#)
25. Cortes AR, Cortes DN, Arita ES. Correction of buccal dehiscence at the time of implant placement without barrier membranes: a retrospective cone beam computed tomographic study. *Int J Oral Maxillofac Implants* 2013;28(6):1564-9. [Abstract in PubMed](#)
26. Degidi M, Piattelli A, Carinci F. Parallel screw cylinder implants: comparative analysis between immediate loading and two-stage healing of 1,005 dental implants with a 2-year follow up. *Clin Impl Dent Rel Res* 2006;8(3):151-60. [Abstract in PubMed](#)
27. Degidi M, Nardi D, Piattelli A. Immediate rehabilitation of the edentulous mandible with a definitive prosthesis supported by an intraorally welded titanium bar. *Int J Oral Maxillofac Implants* 2009;24(2):342-7. [Abstract in PubMed](#)
28. Heschl A, Payer M, Platzer S, et al. Immediate rehabilitation of the edentulous mandible with screw type implants: results after up to 10 years of clinical function. *Clin Oral Implants Res* 2012;23(10):1217-23. [Abstract in PubMed](#)
29. Payer M, Heschl A, Wimmer G, et al. Immediate provisional restoration of screw-type implants in the posterior mandible: results after 5 years of clinical function. *Clin Oral Implants Res* 2010;21(8):815-21. [Abstract in PubMed](#)
30. Tunkel J, de Stavola L, Khoury F. Changes in soft tissue dimensions following three different techniques of stage-two surgery: a case series report. *Int J Periodontics Restorative Dent* 2013;33(4):411-8. [Abstract in PubMed](#)
31. Turk AG, Ulusoy M, Toksavul S, Guneri P, Koca H. Marginal bone loss of two implant systems with three different superstructure materials: a randomised clinical trial. *J Oral Rehabil* 2013;40(6):457-63. [Abstract in PubMed](#)
32. Degidi M, Dapirle G, Piattelli A. Primary stability determination by means of insertion torque and RFA in a sample of 4,135 implants. *Clin Impl Dent Rel Res* 2012;14(4):501-07. [Abstract in PubMed](#)
33. Bilhan H, Mumcu E, Geckili O, Atalay B. The evaluation of the success of immediately placed single implants: a retrospective clinical study. *Implant Dent* 2011;20(3):215-25. [Abstract in PubMed](#)
34. Degidi M, Dapirle G, Piattelli A, Carinci F. Evaluation of factors influencing resonance frequency analysis values, at insertion surgery, of implants placed in sinus-augmented and nongrafted sites. *Clin Impl Dent Rel Res* 2007;9(3):144-9. [Abstract in PubMed](#)
35. De Stavola L, Tunkel J. A new approach to maintenance of regenerated autogenous bone volume: delayed relining with xenograft and resorbable membrane. *Int J Oral Maxillofac Implants* 2013;28(4):1062-7. [Abstract in PubMed](#)
36. Degidi M, Dapirle G, Piattelli A. Determination of primary stability: a comparison of the surgeon's perception and objective measurements. *Int J Oral Maxillofac Implants* 2010;25(3):558-61. [Abstract in PubMed](#)
37. Degidi M, Piattelli A, Gehrke P, Carinci F. Clinical outcome of 802 immediately loaded 2-stage submerged implants with a new grit-blasted and acid-etched surface: 12-month follow-up. *Int J Oral Maxillofac Implants* 2006;21(5):763-8. [Abstract in PubMed](#)
38. Degidi M, Nardi D, Piattelli A. A six-year follow-up of full-arch immediate restorations fabricated with an intraoral welding technique. *Implant Dent* 2013;22(3):224-31. [Abstract in PubMed](#)

Scientific Reviewを閲覧するには次のアドレスにアクセスしてください: www.dentsplyimplants.jp/