



BONE AUGMENTATION AND GRAFTING

<p>Oral bone regeneration and associated complications: A systematic review and meta-analysis</p>	<p>J Stomatol Oral Maxillofac Surg 2026; 127 (2): 102606</p>
<p>Long-term stability of horizontal bone augmentation at implant sites</p>	<p>Perio 2000 2026; online 9 Feb doi.org/10.1111/prd.70026</p>
<p>The FACE difficulty scale applied to a retrospective case series of vertical bone augmentation [Accessible from the Wiley link on this page]</p>	<p>J Esthet Restor Dent 2026; online 4 Jan: jerd.70089</p>
<p>Simple-Challenging-Difficult (SCD) difficulty classification for horizontal bone augmentation</p>	<p>J Esthet Restor Dent 2026; online 26 Jan: jerd.70116</p>
<p>Histological evaluation of bone graft healing in maxillary sinus floor augmentation at two healing time points: a randomized clinical trial</p>	<p>Braz Dent J 2025; 36: e25-6560</p>
<p>Maxillary ridge split and expansion augmented by autologous tooth graft: randomized controlled clinical trial [Accessible from the Wiley link on this page]</p>	<p>Clin Implant Dent Relat Res 2025; 27(6): e70106</p>
<p>In-situ vs. ex-situ bone onlay grafting for horizontal ridge augmentation of anterior teeth: a retrospective study [Accessible from the Wiley link on this page]</p>	<p>Clin Implant Dent Relat Res 2025; 27(6): e70107</p>
<p>A multi-center RCT comparing titanium-reinforced dPTFE membrane to collagen membrane in horizontal bone augmentation at single sites in the anterior maxilla: clinical and histological outcomes [Accessible from the Wiley link on this page]</p>	<p>Clin Implant Dent Relat Res 2025; 27(6): e70097</p>
<p>Reduced surgical complications in graft-masked 3D TI mesh for alveolar augmentation: a retrospective comparative study [Accessible from the Wiley link on this page]</p>	<p>Clin Implant Dent Relat Res 2025; 27(6): e70099</p>
<p>Tooth-supported 3D-printed surgical guide for titanium mesh placement in bone augmentation of the esthetic zone [Accessible from the Wiley link on this page]</p>	<p>J Esthet Restor Dent 2025; online 28 Nov: jerd.70063</p>
<p>Impact of buccal bone arch contour on bone remodeling and esthetics in guided bone regeneration: a retrospective study [Accessible from the Wiley link on this page]</p>	<p>Clin Implant Dent Relat Res 2025; 27(5): e70086</p>
<p>Long-term stability of transcrestal sinus augmentation</p>	<p>Perio 2000 2025; online 10 Sep doi.org/10.1111/prd.70009</p>
<p>Effects of bone augmentation on implant success and survival: a retrospective analysis with 6-year mean follow-up</p>	<p>Clin Implant Dent Relat Res 2025; 27(2): e70021</p>
<p>Comparison of the clinical efficacy of bone grafting and bone grafting combined with guided tissue regeneration in periodontal regenerative therapy: a meta-analysis</p>	<p>Acta Odontol Scand 2024; 83: 166-173</p>
<p>The use of the facial sinus wall as bone shell onlay graft for maxillary posterior ridge reconstruction: a retrospective case series [Accessible from the Wiley link on this page]</p>	<p>Clin Oral Implant Res 2024; online 8 December</p>



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Complication, vertical bone gain, volumetric changes after vertical ridge augmentation using customized reinforced PTFE mesh or Ti-mesh. A non-inferiority randomized clinical trial	Clin Oral Implant Res 2024; 35(12): 1616-1639
A 3D micro-CT assessment of composition and structure of bone tissue after vertical and horizontal alveolar ridge augmentation using CAD/CAM-customized titanium mesh	Clin Oral Implant Res 2024; 35(12): 1546-1559
Radiographic changes after alveolar ridge preservation using autogenous raw tooth particles versus xenograft: A prospective controlled clinical trial [Accessible from the Wiley link on this page]	Clin Oral Implant Res 2024; 35(12): 1597-1606
Use of autologous micrografts associated with xenogeneic anorganic bone in vertical bone augmentation procedures with Barbell Technique® [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2024; 26(6): 1289-1302
Digital workflow for graft harvest and positioning in deficient anterior mandibles versus conventional technique: Randomized controlled trial [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2024; 26(6): 1209-1220
Assessment of the application of a novel three-dimension printing individualized titanium mesh in alveolar bone augmentation: A retrospective study [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2024; 26(6): 1111-1125
Iliac crest vertical block grafts –placing outside or inside the bone contour: A cohort study	Clin Implant Dent Relat Res 2024; 26(6): 1069-1085
Comparing bone graft success, implant survival rate and marginal bone loss: A retrospective study on materials and influential factors [Accessible from the link on this page]	J Oral Implantol 2024; 50(4): 300-307
Does the outcome of graft materials at dental implant sites differ between patients with normal and compromised bone health? [Accessible from the link on this page]	J Oral Implantol 2024; 50(3): 238-244
Histological evaluation of alveolar ridge preservation using different bone grafts: Clinical study analysis part II [Accessible from the link on this page]	J Oral Implantol 2024; 50(3): 260-265
Horizontal alveolar ridge splitting and expansion [Accessible from the link on this page]	J Oral Implantol 2024; 50(3): 200-210
Maxillary sinus lift augmentation: A randomized clinical trial with histological data comparing deproteinized bovine bone grafting vs graftless procedure with a 5–12-year follow-up [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2024; 26(5): 972-985
Bovine-originated xenografts versus synthetic bone grafting materials in lateral maxillary sinus floor augmentation: A systematic review and meta-analysis [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2024; 26(5): 1032-1045
The impact of bone grafting with/without barrier membrane placement on the outcome of apical surgery: A systematic review and meta-analysis	Int Endod J 2024; 57(8): 1006-1020
Half- and full-grafting alveolar ridge preservation with different sealing materials: A three-arm randomized clinical trial [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2024; 26(3): 651-662



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Assessment of bone gain and neurosensory affection with the sandwich osteotomy technique for vertically deficient posterior mandible using a full digital workflow versus conventional protocol: A randomized split mouth study [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2024; 26(3): 621-630
Lateral bone augmentation with a composite graft covered with a stretched and pinned collagen membrane: A retrospective case series using cone-beam computed tomography [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2024; 26(3): 545-533
Horizontal ridge augmentation in the maxillary aesthetic region using the autogenous circular cortical-lamina anchoring technique: A case series study [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2024; 26(3): 518-531
In situ photo-crosslinkable protein bioadhesive for bone graft fixation [can be accessed on DOSS free by logging in on this page]	J Dent Res 2024; 103(4): 409-418
Measuring the outcomes of lateral ridge augmentation using cone-beam computed tomography	Clin Implant Dent Relat Res 2024; 26(1): 206-215
Comparison of morbidity-related parameters between autologous and allogeneic bone grafts for alveolar ridge augmentation from patients' perspective—A questionnaire-based cohort study	Clin Implant Dent Relat Res 2024; 26(1): 170-182
Horizontal ridge augmentation with particulate cortico-cancellous freeze-dried bone allograft alone or combined with injectable-platelet rich fibrin in a randomized clinical trial [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2024; 26(1): 127-137
Injectable platelet rich fibrin versus hyaluronic acid with bovine derived xenograft for alveolar ridge preservation. A randomized controlled clinical trial with histomorphometric analysis [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2024; 26(1): 88-102
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CAD/CAM titanium meshes for GBR: A case series with preliminary histologic analysis [can be accessed on DOSS free by logging in on this page]	Int J Periodont Restor Dent 2024; 44(3): 287-297
The clinical relevance of the lingual branch in ridge augmentation of the posterior mandible: A pilot cadaver study [can be accessed on DOSS free by logging in on this page]	Int J Periodont Restor Dent 2024; 44(3): 213-218



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Utilizing individualized titanium frames for protected alveolar bone augmentation: A feasibility case series [can be accessed on DOSS free by logging in on this page]	Int J Periodont Restor Dent 2024; 44(2): 277-285
Histologic evaluation of edentulous alveolar ridge horizontal bone augmentations using a xenogeneic bone substitute and autologous platelet concentrates: a case series [can be accessed on DOSS free by logging in on this page]	Quintessence Int 2024; 55(4): 314-326
Vertical alveolar bone augmentation of atrophied posterior mandibular regions with simultaneous dental implant placement using allogeneic bone rings vs autogenous bone rings: a randomized controlled clinical trial [can be accessed on DOSS free by logging in on this page]	Quintessence Int 2024; 55(3): 232-243
Sequential human histology results of the subperiosteal minimally invasive aesthetic ridge augmentation technique (SMART): A chronologic wound healing proof-of-principle study [can be accessed on DOSS free by logging in on this page]	Int J Periodont Restor Dent 2024; 44(1): 38-49
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Vertical ridge augmentation with customized titanium mesh using a 3D-printing model: A prospective study in humans [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2024; 39(1): 153-163
Retrospective analysis of augmentation procedures with umbrella screws, a novel tenting technique: a consecutive case series in 279 patients [can be accessed on DOSS free by logging in on this page]	Quintessence Int 2024; 55 (1): 28-40
Clinical and radiographic outcomes of implants placed in extraction sites treated with alveolar ridge preservation: a 10-year retrospective analysis of a case series [can be accessed on DOSS free by logging in on this page]	Quintessence Int 2024; 55(1): 42-50
A novel screwless modification of the Khoury plate technique using an innovative bone adhesive formulated from underwater biomimetic marine proteins [can be accessed on DOSS free by logging in on this page]	Int J Perio Restor Dent 2023; 43 (Suppl.): s255-s263
Periosteal mattress sutures as an alternative to pins and screws in guided bone regeneration in the esthetic zone: a pilot study [can be accessed on DOSS free by logging in on this page]	Int J Perio Restor Dent 2023; 43 (Suppl.): s217-s226
The custom alveolar ridge splitting (CARS) technique for predictable horizontal ridge augmentation in the atrophic posterior mandible: a case report [can be accessed on DOSS free by logging in on this page]	Int J Perio Restor Dent 2023; 43 (Suppl.): s168-s180
Piezosurgical buccal plate repositioning technique: A modified surgical approach for the horizontal augmentation of atrophied mandibles [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2023; 38(6): 57-64



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Comparative osteogenesis of three clinical bone graft materials: An in vivo study [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2023; 38(6): 1175-1181
Efficacy of horizontal alveolar ridge expansion through the alveolar ridge split procedure: A systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2023; 38(6): 1083-1096
Alveolar ridge alterations after lateral guided bone regeneration with and without hyaluronic acid: a prospective randomized trial with morphometric and histomorphometric evaluation [can be accessed on DOSS free by logging in on this page]	Quintessence Int 2023; 54(9): 712-722
How to manage low-grade infection after ridge augmentation [can be accessed on DOSS free by logging in on this page] [Not included in the loan package]	Int J Esthet Dent 2023; 18(4): 418
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Guided bone regeneration in implant dentistry: Basic principle, progress over 35 years, and recent research activities [Accessible from the Wiley link on this page]	Perio 2000 2023; 93: 9-25
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Fresh-frozen allogeneic bone blocks grafts for alveolar ridge augmentation: Biological and clinical aspects	Perio 2000 2023; 93: 139-52
Vertical ridge augmentation with Ti-reinforced dense polytetrafluoroethylene (d-PTFE) membranes or Ti-meshes and collagen membranes: 3-year results of a randomized clinical trial	Clin Implant Dent Relat Res 2023; 25(2): 352-369
Techniques on vertical ridge augmentation: Indications and effectiveness	Perio 2000 2023; 93: 153-82
Complications following alveolar ridge augmentation procedures	Perio 2000 2023; 93: 221-35
Patient-reported outcomes for bone regenerative procedures	Perio 2000 2023; 93: 270-6
Is alveolar ridge preservation an overtreatment?	Perio 2000 2023; 93: 289-308
Critical review on bone grafting during immediate implant placement	Perio 2000 2023; 93: 309-26
Indications and surgical technique for distraction osteogenesis of the alveolar bone for augmentation prior to insertion of dental implants	Perio 2000 2023; 93: 327-39
3D printing for bone regeneration: challenges and opportunities for achieving predictability	Perio 2000 2023; 93: 358-84
Complications associated with vertical bone augmentation techniques in implant dentistry: A systematic review of clinical studies published in the last ten years	J Stomatol Oral Maxillofac Surg 2023; 124 (6 suppl): 101574
Comparison of guided bone regeneration with periosteal pocket flap technique versus autogenous bone block graft for horizontal bone augmentation: a clinical trial study [can be accessed on DOSS free by logging in on this page]	Int J Periodont Restor Dent 2023; 43 (4): 479-488
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Shell technique with a xenogeneic cortical bone lamina and particulate bone graft for horizontal ridge augmentation: a case series [can be accessed on DOSS free by logging in on this page]	Int J Periodont Restor Dent 2023; 43 (4): 435-441
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Bone grafting techniques and materials for implant dentistry [Log in to the BDA home page and follow the link to the BDJ to access]	BDJ 2023; 235 (3): 180-9
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Predictable rehabilitation of bone deficiencies: hygiene, functional and aesthetic perspectives [can be accessed on DOSS free by logging in on this page]	Prim Dent J 2023; 12(2): 57-63
Natural implant restoration in stable alveolar bone (NIRISAB)—Concepts in clinical practice: Long-term follow-up on three cases of ridge reconstruction using the tunnel approach with remote incision [Accessible from the link on this page]	J Oral Implantol 2023; 49 (2): 130-146
Comparative efficacy of different flapless ridge preservation techniques: A systematic review and meta-analysis [Accessible from the link on this page]	J Oral Implantol 2023; 49 (2): 206-217



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The use of autogenous tooth bone graft is an efficient method of alveolar ridge preservation – meta-analysis and systematic review	BMC Oral Health 2023; 23: Art 226
Effectiveness of Bichat's buccal fat pad technique for vertical ridge augmentation in the maxilla [can be accessed on DOSS free by logging in on this page]	Int J Periodont Restor Dent 2023; 43 (2): e99-e109
Comparison of the effects of tissue processing on the physiochemical properties of bone allografts [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2023; 38 (1): 169-180
Minimal invasiveness in lateral bone augmentation with simultaneous implant placement: A systematic review [Accessible from the Wiley link on this page]	Periodont 2000 2023; online 8 Feb doi.org/10.1111/prd.12481
Bone vitality and vascularization of mandibular and maxillary bone grafts in maxillary sinus floor elevation: A retrospective cohort study	Clin Impl Dent Relat Res 2023; 25 (1): 141-151
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Maxillary vertical alveolar ridge augmentation using sandwich osteotomy technique with simultaneous versus delayed implant placement: A proof of principle randomized clinical trial [Accessible from the Wiley link on this page]	Clin Impl Dent Relat Res 2023; 25 (1): 77-86
Marginal bone loss of tissue- or bone-level implants after simultaneous guided bone regeneration in the posterior mandibular region: A retrospective cohort study [Accessible from the Wiley link on this page]	Clin Impl Dent Relat Res 2023; 25 (1): 68-76
Immunohistochemical comparison of lateral bone augmentation using a synthetic TiO₂ block or a xenogeneic graft in chronic alveolar defects	Clin Impl Dent Relat Res 2023; 25 (1): 57-67
Clinical evaluations of alveolar ridge preservation in compromised extraction sockets with cortical-lamina anchoring technique: Case series study	Clin Impl Dent Relat Res 2023; 25 (1): 46-56
A tooth-supported titanium mesh bending and positioning module for alveolar bone augmentation and improving accuracy [Accessible from the Wiley link on this page]	J Esthet Restor Dent 2023; 09 Jan [Early view]
Comparative effects of different materials on alveolar preservation [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Oral Maxillofac Surg 2023; 81 (2): 213-23



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[Minimal invasiveness in vertical ridge augmentation](#)

Periodont 2000 2023; online 26 Jan
doi.org/10.1111/prd.12479

[Alveolar ridge preservation: complications and cost-effectiveness](#)

Periodont 2000 2022; online 29 Dec
doi.org/10.1111/prd.12469

Guided bone regeneration assisted by tooth roots with periodontal ligament: case reports of immediate and staged approaches to implantology [can be accessed on DOSS free by logging in [on this page](#)]

Int J Esthet Dent 2022; 17 (3): 280-295

[Bone grafting in implant dentistry: importance of proper terminology](#) [free to members on Science Direct. If you do not have a login email library@bda.org to request one]

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[Is there clinical evidence to support alveolar ridge preservation over extraction alone? A review of recent literature and case reports of late graft failure](#)

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Ridge augmentation using autologous concentrated growth factors enriched bone graft matrix versus guided bone regeneration using native collagen membrane in horizontally deficient maxilla: A randomized clinical trial [Accessible from the Wiley link [on this page](#)]

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