



BONE AUGMENTATION AND GRAFTING

<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>
<p>Complication, vertical bone gain, volumetric changes after vertical ridge augmentation using customized reinforced PTFE mesh or Ti-mesh. A non-inferiority randomized clinical trial</p>	<p>Clin Oral Implant Res 2024; 35(12): 1616-1639</p>
<p>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</p>	<p>Clin Oral Implant Res 2024; 35(12): 1546-1559</p>
<p>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]</p>	<p>Clin Oral Implant Res 2024; 35(12): 1597-1606</p>
<p>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]</p>	<p>Clin Implant Dent Relat Res 2024; 26(6): 1289-1302</p>
<p>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]</p>	<p>Clin Implant Dent Relat Res 2024; 26(6): 1209-1220</p>
<p>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]</p>	<p>Clin Implant Dent Relat Res 2024; 26(6): 1111-1125</p>
<p>Iliac crest vertical block grafts –placing outside or inside the bone contour: A cohort study</p>	<p>Clin Implant Dent Relat Res 2024; 26(6): 1069-1085</p>
<p>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]</p>	<p>J Oral Implantol 2024; 50(4): 300-307</p>
<p>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]</p>	<p>J Oral Implantol 2024; 50(3): 238-244</p>



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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
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



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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
The influence of vertical ridge augmentation techniques on peri-implant bone loss: A systematic review and meta-analysis	Clin Implant Dent Relat Res 2024; 26(1): 15-65
Efficacy of alveolar ridge preservation with xenografts and resorbable socket sealing materials in the esthetic region: A systematic review with meta-analyses [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2024; 26(1): 4-14
Titanium mesh for guided bone regeneration: a systematic review	Br J Oral Maxillofac Surg 2024; 62 (5): 433-40
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
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
Management of the lingual flap during vertical augmentation of the atrophic anterior mandible: anatomical overview and description of the technique [can be accessed on DOSS free by logging in on this page]	Int J Periodont Restor Dent 2024; 44(1): 17-25
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



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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
comparative histomorphometric analysis of bone regeneration according to bone graft type [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2023; 38(6): 1191-1199
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
Semi-occlusive CAD/CAM titanium mesh for guided bone regeneration: Preliminary clinical and histological results [can be accessed on DOSS free by logging in on this page]	Int J Oral Implantol 2023; 16(4): 327-336
Effect of intact periosteum on alveolar ridge contour stability after horizontal guided bone regeneration in the posterior region: a retrospective and radiographical cohort study	Chin J Dent Res 2023; 26(4): 227-233



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Full block or split block?—Comparison of two different autogenous block grafting techniques for alveolar ridge reconstruction	Clin Implant Dent Relat Res 2023; 25(6): 1149-1163
Barbell technique: A novel approach for bidirectional bone augmentation: Clinical and tomographic study	J Oral Implantol 2023; 49(5): 458-464
Dimensional changes after horizontal and vertical guided bone regeneration without membrane fixation using the retentive flap technique: A 1-year retrospective study [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2023; 25(5): 871-880
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
Modified 3-dimensional alveolar ridge augmentation in the anterior maxilla: A prospective clinical feasibility study [Accessible from the Journal of Oral Implantology link on this page]	J Oral Implantol 2023; 49(5): 458-464
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; 35(4): 586-595
Bone regeneration in implant dentistry: Which are the factors affecting the clinical outcome?	Perio 2000 2023; 93: 26-55
Radiographic evaluation of the tenting screw technique in horizontal alveolar bone augmentation: A retrospective study [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2023; 25(3): 564-574
Simultaneous or staged lateral ridge augmentation: A clinical guideline on the decision-making process	Perio 2000 2023; 93: 107-28
The importance of soft tissue condition in bone regenerative procedures to ensure long-term peri-implant health	Perio 2000 2023; 93: 129-38
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
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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



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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
Rough implants in vertically augmented bone: a retrospective study with 4 to 15 years of follow-up [can be accessed on DOSS free by logging in on this page]	Int J Periodont Restor Dent 2023; 43 (4): 471-477
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
Alveolar ridge preservation and restoration with titanium-reinforced d-PTFE membranes and bone substitutes of severely resorbed sockets: a pilot case series study [can be accessed on DOSS free by logging in on this page]	Int J Periodont Restor Dent 2023; 43 (3): 290-299
Three-dimensional evaluation of autogenous ramus block graft donor site and its relation to mandibular canal [Accessible from the Journal of Oral Implantology link on this page]	J Oral Implantol 2023; 49(3): 233-237
Horizontal bone augmentation with autogenous and collagenated xenogeneic bone blocks: a split-mouth prospective clinical, tomographic, and histological pilot study [Accessible from the Journal of Oral Implantology link on this page]	J Oral Implantol 2023; 49(3): 253-261
Palatal bone plate to repair a deficient site in the esthetic zone [can be accessed on DOSS free by logging in on this page]	Int J Esthet Dent 2023; 18 (1): 14-25
Guided bone regeneration for horizontal maxillary alveolar ridge augmentation using patient-specific solid titanium barriers: a case series [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2023; 38 (2): 295-302
Horizontal ridge augmentation of the atrophic maxilla using pericardium membrane versus titanium mesh: A clinical and histologic randomized comparative study [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2023; 38 (3): 451-461



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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
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; online 25 Jul doi: 10.1016/j.jormas.2023.101574
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Bone substitutes graft for regeneration of the anterior maxillary alveolar process: A systematic review [Accessible from the link on this page]	J Oral Implantol 2023; 49 (1): 102-113
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
A minimally invasive method for titanium mesh fixation with resorbable sutures in guided bone regeneration: A retrospective study [Accessible from the Wiley link on this page]	Clin Impl Dent Relat Res 2023; 25 (1): 87-98
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



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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
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]	J Oral Maxillofac Surg 2022; 80 (10): 1580-2
Is there clinical evidence to support alveolar ridge preservation over extraction alone? A review of recent literature and case reports of late graft failure	BDJ 2022; 233: 469-74
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]	Clin Implant Dent Relat Res 2022; online 10 July, doi: 10.1111/cid.13121
Factors contributing to delay or absence of alveolar bone grafting [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Am J Orthod Dentofac Orthop 2022; 161(6): 820-828.e1
Clinical efficacy of autogenous dentin grafts with guided bone regeneration for horizontal ridge augmentation: a prospective observational study [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 2022; 51 (6): 837-43



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[Tooth as a graft material: histologic study](#)

Clin Implant Dent Relat Res 2022; 24
(4): 488-496

Autogenous dentin with calcium sulfate as graft material: a case series
[Accessible from the link [on this page](#)]

J Oral Implantol 2022; 48 (4): 285-294

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retrospective case-control pilot study comparing two surgical techniques
[Accessible from the Wiley link [on this page](#)]

Clin Implant Dent Relat Res 2022; 24
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