



IMPLANTS: SHORT, MINI, MICRO

[A 1.5 year randomized controlled trial comparing standard-sized implants and four mini-implants retaining mandibular overdentures under functional immediate loading: Subjective and objective outcomes](#)

J Prosthodont 2026; online 10 Mar
doi.org/10.1111/jopr.70118

[A 1.5-year randomized controlled trial comparing standard-sized implants and two diameters of mini-implants immediately loaded by mandibular overdenture: radiographic outcomes, short-term survival, and success rate](#)

BDJ Open 2026; 12: 15

[Prospective controlled study comparing 5.5-mm long implants with longer implants to support fixed partial prosthesis in the premolar-molar regions: 12 months follow-up](#)

BDJ Open 2025; 11: 98

[Cost effectiveness of two short implants versus one short implant with a cantilever in the posterior region: 7.5-year follow-up of a randomised controlled trial](#)

J Clin Perio 2025; online 21 Sep
doi.org/10.1111/jcpe.70039

[Clinical outcomes of bone-level and tissue-level short implants placed in posterior maxilla: a case-control study](#)

Clin Implant Dent Rel Res 2024; online
15 December

[Four-mm-short implants in the rehabilitation of posterior atrophic jaws: A retrospective study on 212 patients with a mean follow-up of 8.02 years](#)

Clin Oral Implant Res 2024; 35(12):
1607-1615

[Short implants: their role in implant reconstruction](#) [free to members on Science Direct. If you do not have a login email library@bda.org to request one]

Dent Clin N Amer 2024; 68(1): 47-54

[Clinical, radiographic peri-implant parameters and patient satisfaction with splinted and non-splinted short dental implants in the maxillary premolar-molar region: a long-term retrospective clinical study](#)

Oral Health Prevent Dent 2023; 21(1):
291-296

Clinical assessment of short (> 6 mm and = 8.5 mm) implants in posterior sites with an average follow-up of 74 months: a retrospective study [can be accessed on DOSS free by logging in [on this page](#)]

Int J Oral Maxillofac Implants 2023; 38
(5): 915-926

Extra-short 4-mm implants splinted to 10-mm implants in the posterior maxilla: 3-year results [can be accessed on DOSS free by logging in [on this page](#)]

Int J Oral Maxillofac Implants 2023; 38
(5): 907-917

The use of short dental implants: Where are we today? [can be accessed on DOSS free by logging in [on this page](#)]

Int J Oral Maxillofac Implants 2023; 38
(5): 842-846



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Primary and secondary stability of short (4 mm) versus standard (= 10 mm) implants placed in the same mandible: a prospective clinical study [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2023; 38 (4): 733-738
Soft loading protocol of short strategic implants in posterior mandibles supporting removable bilateral free-end prostheses: 1-year results of a prospective cohort study [can be accessed on DOSS free by logging in on this page]	Int J Prosthodont 2023; 36 (3): 282-292
Influence of keratinized tissue on short dental implants: a parallel cohort retrospective study on 217 implants with a mean follow-up of 4.1 years [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2023; 38 (3): 462-467
Mandibular bone characteristics, drilling protocols, and final insertion torque for titanium-zirconium mini-implants for overdentures: A cross-sectional analysis [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2023; 25(2): 426-434
Ten-year performance of posterior 6-mm implants with single-tooth restorations: a randomized controlled trial (request using https://www.smartsurvey.co.uk/s/PJHMV/)	J Dent Res 2023; online 30 June doi.org/10.1177/00220345231170538
Performance of immediately loaded short implants using low-speed drilling protocol and plasma rich in growth factors: a controlled retrospective observational study [can be accessed on DOSS free by logging in on this page]	Int J Periodont Restor Dent 2023; 43 (2): 233-239
Extra-short (4-mm) implants placed after regenerative failures in the posterior atrophic mandible: A retrospective study [can be accessed on DOSS free by logging in on this page]	Int J Oral Implantol 2023; 16 (1): 31-38
Effect of implant length and insertion depth on primary stability of short dental implant [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2023; 38 (1): 62-70
Effectiveness of extra-short (< 6 mm) implants compared to standard-length implants associated with bone graft: systematic review [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2023; 38 (1): 29-36
Survival rate of ultrawide diameter implants placed into molar postextraction sockets and in function up to 144 months [Accessible from the Wiley link on this page]	J Prosthodont 2023; 32 (2): 116-124



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<p>Biomechanical behavior analysis of four types of short implants with different placement depths using the finite element method [free to members on Science Direct. If you do not have a login email library@bda.org to request one]</p>	J Prosthet Dent 2023; 129 (3): 477.e1-477.e10
<p>Minimum volume of infiltrative anesthetic required for pain-free placement of mini-implants: a split-mouth clinical trial [can be accessed on DOSS free by logging in on this page]</p>	Quintessence Int 2023; 54 (1): 16-22
<p>Mini-dental implants: an overview (request using https://www.smartsurvey.co.uk/s/PJHMV/) [not included in the hard copy]</p>	Dental Update 2022; 49 (11): 889-93
<p>Single-unit short implants the molar region: a retrospective study with a minimum 3-year follow-up [can be accessed on DOSS free by logging in on this page]</p>	Int J Periodontics Restor Dent 2022; 42 (5): 683-689
<p>Short versus regular-length implants to rehabilitate partially edentulous mandible: a 2-year prospective split-mouth clinical study [Accessible from the link on this page]</p>	J Oral Implantol 2022; 48 (4): 277-284
<p>Short and ultra-short (<6-mm) locking-taper implants supporting single crowns in posterior areas (part II): a 5-year retrospective study on periodontally healthy patients and patients with a history of periodontitis</p>	Clin Implant Dent Relat Res 2022; 24 (4): 455-467
<p>Use of 6-mm short implants in Japanese patients: Clinical, radiologic, and patient satisfaction results in a retrospective study with a 2-year follow-up [can be accessed on DOSS free by logging in on this page]</p>	Int J Periodont Rest Dent 2022; 42 (2): 205-213
<p>Stress distribution analysis of novel dental mini-implant designs to support overdenture prosthesis [Accessible from the link on this page]</p>	J Oral Implantol 2022; 48 (2): 79-83
<p>Survival rates of splinted and nonsplinted prostheses supported by short dental implants (<8.5mm): a systematic review and meta-analysis [Accessible from the Wiley link on this page]</p>	J Prosthodont 2022; 31 (1): 9-21
<p>Severely atrophic mandibles restored with fiber-reinforced composite prostheses supported by 5.0-mm ultra-short implants present high survival rates up to eight years [free to members on Science Direct. If you do not have a login email library@bda.org to request one]</p>	J Oral Maxillofac Surg 2022; 80 (1): 81-92
<p>Clinical performance of short versus standard dental implants in vertically augmented bone: an overview of systematic reviews [can be accessed on DOSS free by logging in on this page]</p>	Clin Oral Invest 2021; 25 (11): 6045-68



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Survival rates of ultra-short (<6 mm) compared with short locking-taper implants supporting single crowns in posterior areas: A 5-year retrospective study	Clin Implant Dent Relat Res 2021; 23 (6): 904-919
Primary and secondary stability of extrashort (4-mm) implants in the edentulous mandible: preliminary results of a prospective clinical trial [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Impl 2021; 36 (6): 1173-1179
Rationale for mini dental implant treatment [Accessible from the link on this page]	J Oral Implantol 2021 47 (5): 437-444
Short dental implants (5 to 7 mm) with expandable apex in the posterior maxilla – preliminary results [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Impl 2021; 36 (6): e153-e158
Retrospective study of short versus standard posterior implants and analysis of implant failure risk factors [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Impl 2021; 36 (5): 1129-1136
Clinical outcome of short implants (≤ 6 mm) placed between two adjacent teeth/implants or in the most distal position: A systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Int J Oral Implantol 2021; 14 (3): 241-257
Ultra-short Versus standard-length dental implants in conjunction with osteotome-mediated sinus floor elevation: A randomized controlled clinical trial (request using https://www.smartsurvey.co.uk/s/PJHMV/)	Clin Implant Dent Relat Res 2021; 23(4): 520-529
Failures in single extra-short implants (≤ 6 mm): A systematic review and meta-analysis [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2021; 36(4): 669-689
Short implants: Documentation for clinical use in rehabilitation of edentulous posterior arches [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2021; 36(4): 625-630
Failure risk of short dental implants under immediate loading: a meta-analysis	J Prosthodont 2021; 30 (7): 569-80
Outcomes of mandibular overdentures supported by four short implants combined with photobiomodulation therapy [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2021; 36(2): 379-387



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One-year results assessing the performance of prosthetic rehabilitations in the posterior maxilla supported by 4-mm extrashort implants splinted to 10-mm implants: a prospective case series [can be accessed on DOSS free by logging in [on this page](#)]

Int J Oral Maxillofac Implants 2021; 36(2): 371-378

Macrogeometry and bone density control over the primary stability of 6-mm implants: an in vitro study [can be accessed on DOSS free by logging in [on this page](#)]

Int J Oral Maxillofac Implants 2021; 36(2): 322-326

Short dental implants (< 6mm) to rehabilitate severe mandibular atrophy: A systematic review [can be accessed on DOSS free by logging in [on this page](#)]

Int J Oral Maxillofac Implants 2021; 36(1): 30-37

Evidence-based clinical outcomes of immediate and early loading of short endosseous dental implants: a meta-analysis [can be accessed on DOSS free by logging in [on this page](#)]

Int J Oral Maxillofac Implants 2021; 36(1): 59-67

Long-term clinical evaluation of short implants on posterior partially edentulous areas: A 14-year retrospective study [can be accessed on DOSS free by logging in [on this page](#)]

Int J Oral Maxillofac Implants 2021; 36(1): 131-136

[Placement of Short Implants: A Viable Alternative?](#) [free to members on Science Direct. If you do not have a login email library@bda.org to request one]

Dent Clin N Am 2021; 65 (1): 21-31

[Short Implants: An Answer to a Challenging Dilemma?](#) [free to members on Science Direct. If you do not have a login email library@bda.org to request one]

Dent Clin N Am 2020; 64 (2): 279-290

Influence of implant length and associated parameters upon biomechanical forces in finite element analyses: a systematic review [Accessible from the Implant Dentistry link [on this page](#)]

Implant Dent 2019; 28(3): 296-305

[Short implants in the posterior maxilla to avoid sinus augmentation procedure: 5-year results from a retrospective cohort study](#)

Int J Implant Dent 2019; (5): 3

Long-term follow-up of single crowns supported by short, moderately rough implants—a prospective 10-year cohort study [Accessible from the Wiley link [on this page](#)]

Clin Oral Impl Res 2018; 29 (12): 1212-1219

[Gender and growth variation in palatal bone thickness and density for mini-implant placement](#)

Prog Orthod 2018; (19): 43



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Extra-short (<7mm) and extra-narrow diameter (<3.5mm) implants: a meta-analytic literature review [can be accessed on DOSS free by logging in on this page]	Eur J Oral Implantol 2018; 11(Suppl. 1): S137-S146
Marginal bone level and survival of short and standard-length implants after 3 years: an open multi-center randomized controlled clinical trial [Accessible from the Wiley link on this page]	Clin Oral Implants Res 2018; 29 (8): 894-906
6 mm vs 10 mm-long implants in the rehabilitation of posterior jaws: a 10-year follow-up of a randomised controlled trial [can be accessed on DOSS free by logging in on this page]	Eur J Oral Implantol 2018; 11 (3): 283-292
Do short implants have similar survival rates compared to standard implants in posterior single crown? A systematic review and meta-analysis [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2018; (20): 890-901
Five-year survival of short single-tooth implants (6 mm): a randomized controlled clinical trial [can be accessed on DOSS free by logging in on this page]	J Dent Res 2018; (97): 887-892
Mini-implants for mandibular overdentures: cost-effectiveness analysis alongside a randomized trial (request using https://www.smartsurvey.co.uk/s/PJHMY/)	JDR Clin & Trans Res 2018; 3(1): 47-56
4 mm long vs longer implants in augmented bone in posterior atrophic jaws: 1-year post-loading result from a multicentre randomised controlled trial [can be accessed on DOSS free by logging in on this page]	Eur J Oral Implantol 2018; 11 (1): 31-47
Posterior atrophic jaws rehabilitated with prostheses supported by 5 x 5 mm implants with a nanostructured calcium-incorporated titanium surface or by longer implants in augmented bone. 3-year results from a randomised controlled trial [can be accessed on DOSS free by logging in on this page]	Eur J Oral Implantol 2018; 11 (1): 49-61
Mini implants and narrow diameter implants as mandibular overdenture retainers: a systematic and meta-analysis of clinical and radiographic outcomes [can be accessed on DOSS free by logging in on this page]	J Oral Rehabil 2018; 45: 161-183
A prospective, multi-center study assessing early loading with short implants in posterior regions. A 3-year post-loading follow-up study [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2018; 20 (1): 34-42



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Short dental implants as compared to maxillary sinus augmentation procedure for the rehabilitation of edentulous posterior maxilla: three-year results of a randomized clinical study [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2018; 20 (1): 9-20
Short (6-mm) dental implants versus sinus floor elevation and placement of longer (>10-mm) dental implants: a randomized controlled trial with a 3-year follow-up [Accessible from the Wiley link on this page]	Clin Oral Implants Res 2017; 28 (9): 1097-1107
Immediate versus early loading of short Straumann® TE implants in the posterior mandible: 10 year results of randomized control clinical trial	J Implant Adv Clin Dent 2017; 9(7): 12-23
Evaluation of four designs of short implants placed in atrophic areas with reduced bone height: a three-year, retrospective, clinical and radiographic study [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	Br J Oral Maxillofac Implants 2017; (55): 703-708
Intrusion of maxillary molar using mini-implants: a clinical report and follow-up at 5 years [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Prosthet Dent 2017; (118): 1-4
Peri-implant bone density around implants of different lengths: a 3-year follow-up of a randomized controlled trial [Accessible from the Wiley link on this page]	J Clin Periodontol 2017; 44 (7): 762-768
Clinical and radiographic evaluation of short dental implants in posterior atrophic ridges with a follow-up period of 1 year after loading: a controlled clinical trial	J Implant Adv Clin Dent 2017; 9(5): 26-35
Small-diameter implants: a 7-year retrospective study [Accessible from the Journal of Oral Implantology link on this page]	J Oral Implantol 2017; 43 (2): 125-129
Short dental implants (6 mm) versus long dental implants (11-15 mm) in combination with sinus floor elevation procedures: 3-year results from a multicentre, randomized, controlled clinical trial [Accessible from the Wiley link on this page]	J Clin Periodontol 2017; 44 (4): 438-445
Meta-analysis of randomized controlled trials comparing clinical outcomes between short implants and long implants with bone augmentation procedure [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2017; (32): e25-e34



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[Clinical guidelines and procedures for provision of mandibular overdentures on 4 mini-dental implants](#) [free to members on Science Direct. If you do not have a login email library@bda.org to request one]

J Prosthet Dent 2017; (117): 22-27

Evaluation of ultrashort and longer implants with microrough surfaces: results of a 24- to 36-month prospective study [can be accessed on DOSS free by logging in [on this page](#)]

Int J Oral Maxillofac Implants 2017; (32): 171-179

Short implants (5 to 8 mm) versus longer implants (>8 mm) with sinus lifting in atrophic posterior maxilla: a meta-analysis of RCTs [Accessible from the Wiley link [on this page](#)]

Clin Implant Dent Relat Res 2017; 19(1): 207-215