



ABUTMENTS

<p>Clinical, immunological and microbiological improvements with zinc-coated healing abutments during the healing phase</p>	<p>Int Dent J 2026; 76(2): 109338</p>
<p>Effect of abutment shape on soft tissue healing: a randomized clinical pilot study with a digital superposition methodology [can be accessed on DOSS free by logging in on this page]</p>	<p>Int J Comput Dent 2025; 28(4): 333-349</p>
<p>Peri-implant supracrestal tissue characteristics related to abutment materials: a comparative histomorphometry study [Accessible from the Wiley link on this page]</p>	<p>Clin Implant Dent Rel Res 2025; 27(5): e70083</p>
<p>Longevity of different abutments placed on narrow diameter implants: Assessment of structural damage and loosening [free to members on Science Direct. If you do not have a login email library@bda.org and to request one]</p>	<p>Dental Mat 2024; 40 (9): 1332-40</p>
<p>Resistance to torsion of cement vs screw-retained abutments under a tangential load: A pilot study [Accessible from the link on this page]</p>	<p>J Oral Implantol 2024; 50(4): 421-425</p>
<p>Comparative analysis of internal tapered implant-abutment connections: Evaluating the morse effect [Accessible from the link on this page]</p>	<p>J Oral Implantol 2024; 50(4): 431-434</p>
<p>Effect of abutment height on marginal bone loss around dental implants: a systematic review [can be accessed on DOSS free by logging in on this page]</p>	<p>Int J Prosthodont 2024; 37(1): 95-102</p>
<p>Frequency of contamination on used healing abutments after sterilization: An in vitro study [can be accessed on DOSS free by logging in on this page]</p>	<p>Int J Prosthodont 2024; 37(1): 1-9</p>
<p>Evaluation of vertical misfit and torque loss of different abutments for tri-channel type internal connection dental implants after mechanical cycling [Accessible from the link on this page]</p>	<p>J Oral Implantol 2024; 50(1): 3138</p>
<p>Microgap and bacterial microleakage during the osseointegration period: An in vitro assessment of the cover screw and healing abutment in a platform-switched implant system [free to members on Science Direct. If you do not have a login email library@bda.org and to request one]</p>	<p>J Prosthet Dent 2023; 130(1): 87-95</p>
<p>Survival of four conical implant abutment connections after removal of the abutment screw and simulated cyclic loading: an in vitro comparative study [Accessible from the link on this page]</p>	<p>J Oral Implantol 2023; 49(4): 393-400</p>
<p>Effect of anodized titanium abutment collars on peri-implant soft tissue: A split-mouth clinical study [free to members on Science Direct. If you do not have a login email library@bda.org and to request one]</p>	<p>J Prosthet Dent 2023; 130(1): 59-67</p>
<p>Less marginal bone loss around bone-level implants restored with long abutments: A systematic review and meta-analysis</p>	<p>Perio 2000 2023; online 28 Sept doi.org/10.1111/prd.12534</p>
<p>Biomechanical efficiency of different implant-abutment connection: a systematic review of studies using photoelastic stress analysis [Log in to the BDA home page and follow the link to the EBD to access]</p>	<p>Evidence Based Dent 2023; 24: 92</p>



ABUTMENTS

<p>Evaluation of the peri-implant tissues in the esthetic zone with prefabricated titanium or zirconia abutments: A randomized controlled clinical trial with a minimum follow-up of 7 years [free to members on Science Direct. If you do not have a login email library@bda.org and to request one]</p>	<p>J Prosthet Dent 2023; 129 (4): 573-581</p>
<p>The conometric concept: Definitive rehabilitation of a single posterior implant using a friction retention abutment. A 1-year follow-up report [can be accessed on DOSS free by logging in on this page]</p>	<p>Int J Prosthodont 2023; 36 (1): 104-112</p>
<p>Transmucosal abutments in the esthetic zone: Surgical and prosthetic considerations [Accessible from the Wiley link on this page]</p>	<p>J Esthet Restor Dent 2023; 35 (1): 148-157</p>
<p>Evidence-based criteria for an ideal abutment implant connection—a narrative review [free to members on Science Direct. If you do not have a login email library@bda.org and to request one]</p>	<p>J Oral Maxillofac Surg 2022; 80 (10): 1670-5</p>
<p>Cervical tooth anatomy considerations for prefabricated anatomic healing abutment design: a mathematical formulation</p>	<p>J Prosthet Dent 2022; 127 (6): 852-859</p>
<p>Effect of fatigue loading and failure mode of different ceramic implant abutments [free to members on Science Direct. If you do not have a login email library@bda.org and to request one]</p>	<p>J Prosthet Dent 2022; 127 (6): 875-881</p>
<p>Effect of different customized abutment types on stress distribution in implant-supported single crown: a 3D finite element analysis [Accessible from the Wiley link on this page]</p>	<p>J Prosthodont 2022; 31 (5): e2-e11</p>
<p>Implant restorative options in the esthetic zone: anodized versus zirconia abutments [Accessible from the link on this page]</p>	<p>J Oral Implantology 2022; 48 (4): 313-317</p>
<p>Is it safe to reuse healing abutments? An experimental study on IL-1β and TNF-α cytokine levels in peri-implant crevicular fluid [Accessible from the Wiley link on this page]</p>	<p>J Prosthodont 2022; 31 (5): 399-404</p>
<p>Long-term effects of titanium-base abutments on peri-implant health: a 5-year randomised controlled trial [can be accessed on DOSS free by logging in on this page]</p>	<p>Int J Oral Implantol 2022; 15 (2): 167-179</p>
<p>Inflammatory effects of individualized abutments bonded onto titanium base on peri-implant tissue health: A randomized controlled clinical trial [Accessible from the Wiley link on this page]</p>	<p>Clin Implant Dent Relat Res 2021; 23 (6): 874-882</p>
<p>Effect of customized healing abutments on the peri-implant linear and volumetric tissue changes at maxillary immediate implant sites: a 1-year prospective randomized clinical trial</p>	<p>Clin Implant Dent Relat Res 2021; 23 (5): 745-757</p>
<p>Comparing the clinical outcome of peri-implant hard and soft tissue treated with immediate individualized CAD/CAM healing abutments and conventional healing abutments for single-tooth implants in esthetic areas over 12 months: a randomised clinical trial [can be accessed on DOSS free by logging in on this page]</p>	<p>Int J Oral Maxillofac Impl 2021; 36(5): 977-984</p>



ABUTMENTS

<p>A retrospective, multicenter, cross-sectional case series study evaluating outcomes of CAD/CAM abutments on implants from four manufacturers: 4-year mean follow-up [can be accessed on DOSS free by logging in on this page]</p>	<p>Int J Oral Maxillofac Impl 2021; 36(5): 966-976e</p>
<p>Comparison of corrosion products from implant and various gold-based abutment couplings: the effect of gold plating [Accessible from the link on this page]</p>	<p>J Oral Implantol 2021 47 (5): 370-379</p>
<p>Is zirconia better than titanium abutments for soft tissue color? A systematic review and meta-analysis of spectrophotometric evaluation [can be accessed on DOSS free by logging in on this page]</p>	<p>Int J Oral Maxillfac Impl 2021; 36(5): 875-884</p>
<p>An in vitro analysis of sodium hypochlorite decontamination for the reuse of implant healing abutments [Accessible from the link on this page]</p>	<p>J Oral Implantol 2021 47 (4): 271-279</p>
<p>Evaluation of stress generated with different abutment materials and angulations under axial and oblique loading in the anterior maxilla: three-dimensional finite element analysis</p>	<p>Int J Dent 2021: Art 9205930</p>
<p>Titanium base abutments in implant prosthodontics: a literature review</p>	<p>Eur J Dent 2021; online 18 Nov doi: 10.1055/s-0041-1735423</p>
<p>Culturomic and quantitative real-time-polymerase chain reaction analyses for early contamination of abutments with different surfaces: A randomized clinical trial [Accessible from the Wiley link on this page]</p>	<p>Clin Impl Dent Relat Res 2021; 23(4): 568-578</p>
<p>Optical efficacy of titanium nitride-coated abutment material on soft tissue discoloration: A spectrophotometric in vitro analysis [can be accessed on DOSS free by logging in on this page]</p>	<p>Int J Oral Maxillofac Implants 2021; 36(4): e91-e96</p>
<p>Computational biomechanical analysis of engaging and nonengaging abutments for implant screw-retained fixed dental prostheses [Accessible from the Wiley link on this page]</p>	<p>J Prosthodont 2021; 30 (7): 604-9</p>
<p>Esthetic outcomes of implant-supported single crowns related to abutment type and material: a systematic review [can be accessed on DOSS free by logging in on this page]</p>	<p>Int J Prosthodont 2021; 34 (2): 229-49</p>
<p>Screw stability of CAD-CAM titanium and zirconia abutments on different implants: An in vitro study [Accessible from the Wiley link on this page]</p>	<p>Clin Impl Dent Relat Res 2021; 23(3): 373-379</p>
<p>Comparison of peri-implant clinical outcomes of digitally customized and prefabricated abutments: A systematic review and meta-analysis [Accessible from the Wiley link on this page]</p>	<p>Clin Impl Dent Relat Res 2021; 23(2): 216-227</p>
<p>Microbial communities of titanium versus zirconia abutments on implant-supported restorations: Biodiversity composition and its impact on clinical parameters over a 3-year longitudinal prospective study [Accessible from the Wiley link on this page]</p>	<p>Clin Impl Dent Relat Res 2021; 23(2): 197-207</p>
<p>Fracture resistance of zirconia, polyetheretherketone, and polyetherketoneketone implant abutments after aging [can be accessed on DOSS free by logging in on this page]</p>	<p>Int J Oral Maxillofac Implants 2021; 36(2): 332-340</p>



ABUTMENTS

Mechanical stability of restorations supported by titanium base, zirconia, and polyetherketoneketone abutments on one- and two-piece zirconia implants [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2021; 36(2): 313-321
The implant supracrestal complex and its significance for long-term successful clinical outcomes [can be accessed on DOSS free by logging in on this page]	Int J Prosthodont 2021; 34 (1): 88-100
Novel bendable abutments as a solution to correct unfavorable implant inclination. A clinical report [Accessible from the Wiley link on this page]	J Esthet Restor Dent 2020; 32(8): 757-769

Capacity to Maintain Placement Torque at Removal, Single Load-to-Failure, and Stress Concentration of Straight and Angled Abutments [can be accessed on DOSS free by logging in on this page]	Int J Periodontics Restorative Dent 2019; 39(2): 213-218
Fits of Implant Zirconia Custom Abutments and Frameworks: A Systematic Review and Meta-Analyses [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2019; 34(1): 99-114
Randomized Controlled Clinical Trial of All-Ceramic Single-Tooth Implant Reconstructions Using Modified Zirconia Abutments: Results at 5 Years After Loading [can be accessed on DOSS free by logging in on this page]	Int J Periodontics Restorative Dent 2019; 39(1): 17-27
Do We Need Abutments at Immediately Loaded Implants Supporting Cross-Arch Fixed Protheses? Results from a 5-Year Randomised Controlled Trial [can be accessed on DOSS free by logging in on this page]	Eur J Oral Implantol 2018; 11(4): 397-407
Mechanical Behavior of Different Micro-Conical Abutments in Fixed Prosthesis [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2018; 33(6): 1199-1205
Failure Loads of All-Ceramic Cantilever Fixed Dental Protheses on Post-Restored Abutment Teeth: Influence of the Post Presence and Post Position [Accessible from the Wiley link on this page]	Eur J Oral Sci 2018; 126: 526-532
The Influence of Implant-Abutment Connection to Peri-Implant Bone Loss: A Systematic Review and Meta-Analysis [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2018; 20: 653-664
Evaluation of the Periodontal Status of Abutment Teeth in Removable Partial Dentures [can be accessed on DOSS free by logging in on this page]	Int J Periodontics Restorative Dent 2018; 38(5): 755-760
Comparison of Cemented vs Screw-Retained, Customized Computer-Aided Design/Computer-Assisted Manufacture Zirconia Abutments for Esthetically Located Single-Tooth Implants: a 10-Year Randomized Prospective Study [can be accessed on DOSS free by logging in on this page]	Int J Prosthodont 2018; 31(4): 359-366
Three-Year Results of a Randomized Controlled Clinical Trial Using Submucosally Veneered and Unveneered Zirconia Abutments Supporting All-Ceramic Single-Implant Crowns [can be accessed on DOSS free by logging in on this page]	Int J Periodontics Restorative Dent 2018; 38(5): 645-652
Effects of Modified Abutment Characteristics on Peri-Implant Soft Tissue Health: A Systematic Review and Meta-Analysis	Clin Oral Impl Res 2018; 29: 118-129



ABUTMENTS

Response of Soft Tissue to Different Abutment Materials with Different Surface Topographies: a Review of the Literature (request using https://www.smartsurvey.co.uk/s/PJHMV/)	General Dentistry 2018; 66(1):18-25
Using Cross-Polarized Photography as a Guide for Selecting Resin Composite Shade	Oper Dent 2018; 43(2): 113-120
Histological Evaluations and Inflammatory Responses of Different Dental Implant Abutment Materials: A Human Histology Pilot Study [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2018; 20: 160-169
Periodontal Conditions of Abutments and Non-Abutments in Removable Partial Dentures Over 7 Years of Use [Accessible from the Wiley link on this page]	J Prosthodont 2017; 26: 644-649
Spectrophotometric analysis of fluorescent zirconia abutments compared to “conventional” zirconia abutments: A within subject controlled clinical trial [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2017; 1-7 DOI: 10.1111/CID.12488
Impact of Cleaning Procedures on Adhesion of Living Cells to Three Abutment Materials [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2017; 32(5): 976-984
Influence of implant abutment fabrication method on clinical outcomes: a systematic review [can be accessed on DOSS free by logging in on this page]	Eur J Oral Implantol 2017; 10(suppl): 67-77
One-piece internal zirconia abutments for single-tooth restorations on narrow and regular diameter implants: A 5-year prospective follow-up study [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2017; doi: 10.1111/cid.12515 1-10
Abutment Disconnection/Reconnection Affects Peri-implant Marginal Bone Levels: A Meta-Analysis [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Implants 2017; 32: 575-581
3-Year Randomized Controlled Prospective Clinical Trial on Different CAD-CAM Implant Abutments [Accessible from the Wiley link on this page]	Clin Implant Dent Relat Res 2016; 18(6): 1134-1141
Clinical Evaluation of the Influence of Connection Type and Restoration Height on the Reliability of Zirconia Abutments: A Retrospective Study on 965 Abutments with a Mean 6-Year Follow-Up [can be accessed on DOSS free by logging in on this page]	Int J Periodontics Restorative Dent 2017; 37(1): 19-31
Fracture resistance of different implant abutments supporting all-ceramic single crowns after aging [can be accessed on DOSS free by logging in on this page]	Int J Comput Dent 2017; 20(1): 52-64
Fracture Resistance of Implant Abutments Following Abutment Alterations by Milling the Margins: An In Vitro Study [Accessible from the link on this page]	J Oral Implantol 2016; 152(6): 464-468
Clinical Use of Laser-Microtextured Abutments: A Case Series [can be accessed on DOSS free by logging in on this page]	Int J Periodontics Restorative Dent 2016; 36(5): 655-662
Fracture Strength of Implant Abutments after Fatigue Testing: A Systematic Review and a Meta-Analysis [no online access available]	J Mech Behav Biomed Mater 2016; (62): 333-346



ABUTMENTS

Randomized Controlled Clinical Trial of All-Ceramic Single Tooth Implant Reconstructions Using Modified Zirconia Abutments: Radiographic and Prosthetic Results at 1 Year of Loading [Accessible from the Wiley link on this page]	Clin Impl Dent Relat Res 2016; 18(3): 462-472
Are Zirconia Implant Abutments Safe and Predictable in Posterior Regions? A Systematic Review and Meta-Analysis [can be accessed on DOSS free by logging in on this page]	Int J Prosthodont 2016; (29): 233-244
Mechanical Properties of Abutments: Resin-Bonded Glass Fiber-Reinforced Versus Titanium [can be accessed on DOSS free by logging in on this page]	Int J Prosthodont 2016; 29(1): 77-9
Three-Dimensional Finite Element Analysis of the Stress Distribution at the Internal Implant-Abutment Connection [can be accessed on DOSS free by logging in on this page]	Int J Periodontics Restorative Dent 2016; 36(3): e49-e58
The Impact of the Crown-Root Ratio on Survival of Abutment Teeth for Dentures [can be accessed on DOSS free by logging in on this page]	J Dent Res 2015; 94(9 suppl):220S-5S
Esthetic Considerations for Reconstructing Implant Emergence Profile Using Titanium and Zirconia Custom Implant Abutments: Fifty Case Series Report [Accessible from the link on this page]	J Oral Implantol 2015; 41(5): 554-61
Prefabricated Versus Customized Abutments: A Retrospective Analysis of Loosening of Cement-Retained Fixed Implant-Supported Reconstructions [can be accessed on DOSS free by logging in on this page]	Int J Prosthodont 2015; 28(5):522-6
Grinding Efficiency of Abutment Tooth with Both Dentin and Core Composite Resin on Axial Plane	Bull Tokyo Dent Coll 2015; 56(1): 9-23
Epithelial Attachment and Downgrowth on Dental Implant Abutments--A Comprehensive Review [Accessible from the Wiley link on this page]	J Esthet Restor Dent 2014; 26 (5): 324-331
Clinical Outcomes of Implant Abutments in the Anterior Region: A Systematic Review [Accessible from the Wiley link on this page]	J Esthet Restor Dent 2013; 25 (3): 159-176
A Technique for Removal of a Fractured Implant Abutment Screw [Accessible from the link on this page]	J Oral Implantol 2013; 39 (6): 723-725
A Comparative Study to Evaluate the Effect of Two Different Abutment Designs on Soft Tissue Healing and Stability of Mucosal Margins [Accessible from the Wiley link on this page]	Clin Oral Impl Res 2013; (24): 336-341
Mechanical Resistance of Zirconium Implant Abutments: A Review of the Literature	Med Oral Patol Oral Cir Bucal 2012; 17 (2): e246-e250
Deformation of Implant Abutments After Framework Connection Using Strain Gauges [Accessible from the link on this page]	J Oral Implantol 2012; 38 (2): 125-132
Influences of Internal Tapered Abutment Designs on Bone Stresses Around a Dental Implant: Three-Dimensional Finite Element Method With Statistical Evaluation [Accessible from the Wiley link on this page]	J Periodontol 2012; 83(1): 111-118
The Impact of the Type and Configuration of Abutments and their (Repeated) Removal on the Attachment Level and Marginal Bone [can be accessed on DOSS free by logging in on this page]	Eur J Oral Implantol 2012; 5 (Suppl.): S83-S90



ABUTMENTS

A Modified Technique for Removing a Failed Abutment Screw From an Implant With a Custom Guide Tube [Accessible from the link on this page]	J Oral Implantol 2012; 38 (2): 165-169
Fatigue Resistance and Failure Mode of Adhesively Restored Custom Implant Zirconia Abutments [Accessible from the Wiley link on this page]	Clin Oral Implants Res 2012; (23): 1360-1368
Zirconia Implant Abutments: Microstructural Analysis [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Impl 2012; (27): 785-791
Internal vs. External Connections for Abutments/Reconstructions: A Systematic Review [Accessible from the Wiley link on this page]	Clin Oral Implants Res 2012; 23 (Suppl. 6): 202-216
Comparison of Fit Accuracy Between Procera Custom Abutments and Three Implant Systems [Accessible from the Wiley link on this page]	Clin Impl Dent Rel Res 2012; 14: 890-895
Early Bacterial Colonization and Soft Tissue Health around Zirconia and Titanium Abutments: An In Vivo Study in Man [Accessible from the Wiley link on this page]	Clin Oral Impl Res 2011; (22): 571-577
In Vitro Evaluation of the Removal Force of Abutments in Frictional Dental Implants [Accessible from the link on this page]	J Oral Implantol 2011; 37 (5): 519-523
The Influence of Abutment Angulation on Screw Loosening of Implants in the Anterior Maxilla [can be accessed on DOSS free by logging in on this page]	Int J Oral Maxillofac Impl 2011; (26): 45-55
Influence of Abutment Material on the Gingival Color of Implant-Supported All-Ceramic Restorations: A Prospective Multicenter Study [Accessible from the Wiley link on this page]	Clin Oral Impl Res 2011; (22): 631-637
Comparative Soft and Hard Tissue Responses to Titanium and Polymer Healing Abutments [Accessible from the link on this page]	J Oral Implantol 2011; 37 (Spec. Iss.): 174-182
Zirconia Implant Abutments: A Review	Med Oral Patol Oral Cir Bucal 2011; 16 (1): e50-e55
The Effect of Zirconia and Titanium Implant Abutments on Light Reflection of the Supporting Soft Tissues [Accessible from the Wiley link on this page]	Clin Oral Impl Res 2011; (22): 1172-1178
Impact Fracture Resistance of Two Titanium-Abutment Systems Versus a Single-Piece Ceramic Implant [Accessible from the Wiley link on this page]	Clin Implant Dent Rel Res 2011; 13 (2): 168-173
Influence of Abutment Material on the Fracture Strength and Failure Modes of Abutment-Fixture Assemblies When Loaded in a Bio-Faithful Simulation [Accessible from the Wiley link on this page]	Clin Oral Impl Res 2011; (22): 182-188
Zirconia Abutments for Single-Tooth Implant Restorations: A Retrospective and Clinical Follow-Up Study [Accessible from the Wiley link on this page]	Clin Oral Impl Res 2011; (22): 1308-1314
Effect of Implant-Abutment Connection Design on Load Bearing Capacity and Failure Mode of Implants [Accessible from the Wiley link on this page]	J Prosthodont 2011; (20): 510-516
One Abutment at One Time: Non-Removal of an Immediate Abutment and its Effect on Bone Healing Around Subcrestal Tapered Implants [Accessible from the Wiley link on this page]	Clin Oral Impl Res 2011; (22): 1303-1307



ABUTMENTS

Angled Implant Abutments: A Practical Application of Available Knowledge [free to members on Science Direct. If you do not have a login email library@bda.org to request one]	J Am Dent Assoc 2011 142 150-158
Zirconia as a Dental Implant Abutment Material: A Systematic Review [can be accessed on DOSS free by logging in on this page]	Int J Prosthodont 2010 23(4) 299-309
Implant Abutment Types: A Literature Review – Part 2 [not available online]	J Imp Adv Clin Dent 2010 2(6) 75-80
Evaluation of Rotational Freedom of In-Ceram Ceramic Blank Abutments Before and After Infiltration [Accessible from the link on this page]	Implant Dent 2010 19(1) 50-56