



# Literature Overview

Valid from May 2023

# Reviews and Consensus

## 2021

**Schwarz F, Schär A, Nelson K, Fretwurst T, Flügge T, Ramanauskaite A, Trimpou G, Sailer I, Karasan D, Fehmer V, Guerra F, Messias A, Nicolau P, Chochohidakis K, Tsigarida A, Kernen F, Taylor T, Vazouras K, Herklotz I, Sader R.**

Recommendations for implant-supported full-arch rehabilitations in edentulous patients: The Oral Reconstruction Foundation Consensus Report. *Int J Prosthodont.* 2021;Suppl;34:s8-s20

## 2019 – 2020

**Messias A, Nicolau P, Guerra F.**

Titanium dental implants with different collar design and surface modifications: A systematic review on survival rates and marginal bone levels. *Clin Oral Implants Res.* 2019;30(1):20-48

**Schwarz F, Messias A, Sanz-Sánchez I, Carillo de Albornoz A, Nicolau P, Taylor T, Beuer F, Schär A, Sader R, Guerra F, Sanz M.**

Influence of implant neck and abutment characteristics on peri-implant tissue health and stability. Oral Reconstruction Foundation Consensus Report *Clin Oral Implant Res* 2019;30(6):588-93

## 2017 – 2018

**Sanz-Martín I, Sanz-Sánchez I, Carillo de Albornoz A, Figuero E, Sanz M.**

Effects of modified abutment characteristics on peri-implant soft tissue health: A systematic review and meta-analysis. *Clin Oral Impl Res.* 2018;29(1):118-29

## 2015 – 2016

**Kern JS, Kern T, Wolfart S, Heussen N.**

A systematic review and meta-analysis of removable and fixed implant-supported prostheses in edentulous jaws: Post-loading implant loss. *Clin Oral Impl Res* 2016;27:174-95

**Sanz-Sánchez I, Sanz-Martín I, Figuero E, Sanz M.**

Clinical efficacy of immediate implant loading protocols compared to conventional loading depending on the type of the restoration: A systematic review. *Clin Oral Impl Res* 2015;26:964-82

**Schwarz F, Sanz-Martín I, Kern JS, Taylor T, Schaer A, Wolfart S, Sanz M.**

Loading protocols and implant supported restorations proposed for the rehabilitation of partially and fully edentulous jaws. Camlog Foundation Consensus Report. *Clin Oral Implants Res* 2016;27:988-92

**Strietzel FP, Neumann K, Hertel M.**

Impact of platform switching on marginal peri-implant bone-level changes. A systematic review and meta-analysis. *Clin Oral Impl Res* 2015;26:342-58

## 2014 – 2013

**Schwarz F, Alcoforado G, Nelson K, Schär A, Taylor T, Beuer F, Strietzel FP.**

Impact of implant-abutment connection, positioning of the machined collar/microgap, and platform switching on crestal bone level changes. Camlog Foundation Consensus Report. *Clin Oral Impl Res* 2014; 25:1301-3

**Schwarz F, Hegewald A, Becker J.**

Impact of implant-abutment connection and positioning of the machined collar/microgap on crestal bone level changes: a systematic review. *Clin Oral Impl Res* 2014;25:417-25

# Prospective Clinical Trials

## 2023

**Herklotz I, Beuer F, Bruhnke M, Zoske J, Böse MWH.**

Accuracy of fully guided dental implant placement: A prospective clinical in-vivo investigation using intraoral scan data. *Int J Comput Dent* 2023;0(0):1-28, ahead of print

## 2021 – 2022

**Afrashtehfar KI, Weber A, Abou-Ayash S.**

Titanium-base abutments may have similar long-term peri-implant effects as non-bonded one-piece abutments. *Evid Based Dent* 2022;23(4):134-5

**Andrés-García R, Ríos-Santos JV, Herrero-Climent M, Bullón P, Fernández-Farhall J, Gómez-Menchero A, Fernández-Palacín A, Ríos-Carrasco B.**

Sinus floor elevation via an osteotome technique without biomaterials. *Int J Environ Res Public Health.* 2021;18(3):1103

**Edelmann, C, Wetzel M, Knipper A, Luthardt RG.**

Accuracy of computer-assisted dynamic navigation in implant placement with a fully digital approach: A prospective clinical trial. *J Clin Med* 2021;10(9):1808

**Happe A, Debring L, Schmidt A, Fehmer V, Neugebauer J.**

Immediate implant placement in conjunction with acellular dermal matrix or connective tissue graft: A randomized controlled clinical volumetric study. *Int J Periodontics Restorative Dent* 2022;42(3):381-90

**Happe A, Schmidt A, Neugebauer J.**

Peri-implant soft-tissue esthetic outcome after immediate implant placement in conjunction with xenogeneic acellular dermal matrix or connective tissue graft: A randomized controlled clinical study. *J Esthet Restor Dent* 2022;34(1):215-25

**Krennmair S, Malek M, Forstner T, Krennmair G, Stimmelmayer M, Hunger S**

Immediately loaded implants simultaneously placed in fresh extraction and healed sites supporting four-implant-supported fixed mandibular prostheses using the all-on-4 concept: A 5-year prospective study. *Clin Oral Implants Res.* 2022;33(2):158-71

**Moergel M, Rocha S, Messias A, Nicolau P, Guerra F, Wagner W.**

Clinical and radiographic performance of self-locking conical connection implants in the posterior mandible: Five-year results of a two-center prospective study. *Clin Oral Implants Res.* 2021; 32(8):998-1007

**Neckel N, Wagendorf P, Sachse C, Stromberger C, Vach K, Heiland M, Nahles S.**

Influence of implant-specific radiation doses on peri-implant hard and soft tissue: An observational pilot study. *Clin Oral Implants Res.* 2021;32(2):249-61

**Poli PP, Muktadar AK, Ávila Souza F, Maiorana C, Beretta M.** Computer-guided implant placement associated with computer-aided bone regeneration in the treatment of atrophied partially edentulous alveolar ridges: A proof-of-concept study. *J Dent Sci.* 2021;16(1):333-41

**Rathe F, Junker R, Heumann C, Blumenröhr J, Auschill T, Arweiler N, Schlee M.**

Long-term effects of titanium-base abutments on peri-implant health: A 5-year randomised controlled trial. *Int J Oral Implantol (Berl)* 2022;15(2):167-79

**Schnutenhaus S, Edelmann C, Rudolph E.**

Does the macro design of an implant affect the accuracy of template-guided implantation? A prospective clinical study. *Int J Implant Dent.* 2021 26;7(1):42

**Schnutenhaus S, Wagner M, Edelmann C, Luthardt RG, Rudolph H.**

Factors influencing the accuracy of freehand implant placement: A prospective clinical study. *Dent J* 2021;9(5):54

**Tabassum A, Kazmi F, Wismeijer D, Siddiqui IA, Tahmaseb A.**

A prospective randomized clinical trial on radiographic crestal bone loss around dental implants placed using two different drilling protocols: 12-month follow-up. *Int J Oral Maxillofac Implants* 2021;36(6):e175-e182

**Trimpou G, Schwarz F, Begic A, Hess P, Lermen J, Keim N, Obreja K, Parvini P.**

Clinical performance of immediately placed and restored progressive-type implants in the esthetic zone: A prospective observational study. *Int J Implant Dent* 2022;8(1):57

**Wolfart S, Rittich A, Gross K, Hartkamp O, von der Stück A, Raith S, Reich S.**

Cemented versus screw-retained posterior implant-supported single crowns: A 24-month randomized controlled clinical trial. *Clin Oral Implants Res* 2021;32(12):1484-95

## 2019 – 2020

**Ackermann K-L, Barth T, Cacaci C, Kistler S, Schlee M, Stiller M.**

Clinical and patient-reported outcome of implant restorations with internal conical connection in daily dental practices: prospective observational multicenter trial with up to 7-year follow-up. *Int J Implant Dent.* 2020;6(1):14

**Al-Sawaf O, Tuna T, Rittich A, Kern T, Wolfart S**

Randomized clinical trial evaluating the effect of splinting crowns on short implants in the mandible 3 years after loading. *Clin Oral Implants Res.* 2020;31(11):1061-71

**Cacaci C, Ackermann KL, Barth T, Kistler S, Stiller M, Schlee M.**

A non-interventional multicenter study to document the implants success and survival rates in daily dental practices of the CONELOG screw-line implants. *Clin Oral Investig.* 2019;23(6):2609-2616

**Kahramanoglu E, Aslan YU, Özkan Y, Özkan Y.**

Clinical and radiographic evaluation of early loaded maxillary anterior implants: Three-year follow-up. *Int J Periodontics Restorative Dent* 2019;39(1):123-9

**Krennmair S, Hunger S, Forstner T, Malek M, Krennmair G, Stimmelmayer M.**

Implant health and factors affecting peri-implant marginal bone alteration for implants placed in staged maxillary sinus augmentation: A 5-year prospective study. *Clin Implant Dent Relat Res.* 2019;21(1):32-41

**Linkevicius T, Puisys A, Linkevicius R, Alkimavicius J, Geneviciute E, Linkeviciene L.**

The influence of submerged healing abutment or subcrestal implant placement on soft tissue thickness and crestal bone stability. A 2-year randomized clinical trial. *Clin Implant Dent Relat Res.* 2020;22(4):497-506

**Meriç P, Buduneli N, Kanmaz B, Gürlek Ö, Çömlekoğlu E, Calvert G, Lappin DF, Nile C.**

Cholinergic signaling mechanisms and early implant healing phases in healthy versus generalized aggressive periodontitis patients: A prospective, case-control study. *J Clin Periodontol.* 2019;46(11):1155-63

**Messias A, Rocha S, Wagner W, Wiltfang J, Moergel M, Behrens E, Nicolau P, Guerra F.**

Peri-implant marginal bone loss reduction with platform-switching components: 5-year post-loading results of an equivalence randomized clinical trial. *J Clin Periodontol* 2019;46(6):678-87

**Schnutenhaus S, Brunken L, Edelmann C, Dreyhaupt J, Rudolph H, Luthardt RG.**

Alveolar ridge preservation and primary stability as influencing factors on the transfer accuracy of static guided implant placement: a prospective clinical trial. *BMC Oral Health.* 2020;20(1):178

**Tabassum A, Wismeijer D, Hogervorst J, Tahmaseb A.**

Comparison of proliferation and differentiation of human osteoblast-like cells harvested during implant osteotomy preparation using two different drilling protocols. *Int J Oral Maxillofac Implants* 2020;35(1):141-9

**Waller T, Herzog M, Thoma DS, Hüsler J, Hämmerle CHF, Jung RE.**

Long-term clinical and radiographic results after treatment or no treatment of small buccal bone dehiscences at posterior dental implants: A randomized, controlled clinical trial. *Clin Oral Implants Res.* 2020;31(6):517-25

**Zhang Y, Tian J, Wei D, Di P, Lin Y.**

Quantitative clinical adjustment analysis of posterior single implant crown in a chairside digital workflow: A randomized controlled trial. *Clin Oral Implants res.* 2019;30(11):1059-66

## 2017 – 2018

**Beschnidt SM, Cacaci C, Dedeoglu K, Hildebrand D, Hulla H, Iglhaut G, Krennmair G, Schlee M, Sipos P, Stricker A, Ackermann KL.**

Implant success and survival rates in daily dental practice: 5-year results of a non-interventional study using CAMLOG SCREW-LINE implants with or without platform-switching abutments. *Int J Implant Dent.* 2018;4(1):33

**Cacaci C, Cantner F, Mücke T, Randelzhofer P, Hajtó J, Beuer F.**

Clinical performance of screw-retained and cemented implant-supported zirconia single crowns: 36-month results. *Clin Oral Invest* 2017;21(6):1953-9

**Chatvarattana K, Thaworanunta S, Seriwatanachai D, Wongsirichat N.**

Correlation between the thickness of the crestal and buccolingual cortical bone at varying depths and implant stability quotients. *PLoS One* 2017;12(12):eo190293

**Çömlekoğlu E, Nizam N, Çömlekoğlu MD.**

Immediate definitive individualized abutments reduce peri-implant bone loss: a randomized controlled split-mouth study on 16 patients. *Clin Oral Invest* 2018;22(1):475-86

**Jung RE, Herzog M, Wolleb K, Ramel CF, Thoma DS, Hämmerle CHF.**

A randomized controlled clinical trial comparing small buccal dehiscence defects around dental implants treated with guided bone regeneration or left for spontaneous healing. *Clin Oral Impl Res* 2017;28(3):348-54

**Molina A, Sanz-Sanchez I, Martín C, Blanco J, Sanz M.**

The effect of one-time abutment placement on interproximal bone levels and peri-implant soft tissues: A prospective randomized clinical trial. *Clin Oral Impl Res* 2017;28:443-52

**Puzio M, Blaszcyszyn A, Hadzik J, Dominiak M.**

Ultrasound assessment of soft tissue augmentation around implants in the aesthetic zone using a connective tissue graft and xenogeneic collagen matrix – 1 year randomized follow-up. *Anat.* 2018; 217:129-41

**Schmidt KE, Ausschill TM, Sculean A, Arweiler NB.**

Clinical evaluation of non-surgical cleaning modalities on titanium dental implants during maintenance care: a 1-year follow-up on prosthodontic superstructures. *Clin Oral Invest.* 2019; 23(4):1921-30

**Schnutenhaus S, Gröller S, Luthardt RG, Rudolph H.**

Accuracy of the match between cone beam computed tomography and model scan data in template-guided implant planning: A prospective controlled clinical study. *Clin Implant Dent Relat Res.* 2018;20(4):541-9

**Tattan M, Kokovic V.**

Titanium or zirconia? Clinical assessment of primary implant stability. *Int Poster J Dent Oral Med* 2017;19(2) Poster 1129

#### 2015 – 2016

**Baruffaldi A, Poli PP, Baruffaldi A, Giberti L, Pigozzo M, Maiorana C.**

Computer-aided flapless implant surgery and immediate loading. A technical note. *Oral Maxillofacial Surgery* 2016;20 (3):313-319

**Duttenhoefer F, Nack C, Doll C, Ragusse JD, Hell B, Stricker A, Nelson D, Nahles S.**

Long-term peri-implant bone level changes of non-vascularized fibula bone grafted edentulous patients. *Journal of Cranio-Maxillo-Facial Surgery* 2015;43:611-15

**Kokovic V, Rahman MM, Rahman B, Tattan M.**

Assessment of implant stability of wo-piece zirconium dioxide implants using the resonance frequency analysis: A pilot study. *Int J Experiment Dent Sci* 2015;4(2):87-94

**Kokovic V, Tattan M.**

A six-month clinical study to evaluate the effects of sodium tripolyphosphate and tetrapotassium pyrophosphate ased calculus dissolution oral rinse in patients with zirconium dioxide and titanium dental implants. *BEMS reports* 2016;2(2):27-31

**Krennmair S, Weinländer M, Malek M, Forstner T, Krennmair G, Stimmelmayer M.**

Mandibular full-arch fixed prostheses supported on 4 implants with either axial or tilted distal implants: A 3-year prospective study. *Clin Implant Dent Relat Res* 2016;18(6):1119-33

**Moergel M, Rocha S, Messias A, Nicolau P, Guerra F, Wagner W.**

Radiographic evaluation of conical tapered platform-switched implants in the posterior mandible: 1-year results of a two-center prospective study. *Clin Oral Impl Res* 2016;27:686-93

**Rocha S, Wagner W, Wiltfang J, Nicolau P, Moergel M, Messias A, Behrens E, Guerra F.**

Effect of platform switching on crestal bone levels around implants in the posterior mandible: 3-years results from a multicenter randomized clinical trial. *J Clin Periodontol* 2016;43:374-82

**Wolfart S, Wolf K, Brunzel S, Wolfart M, Caliebe A, Kern M.**

Implant placement under existing removable dental prostheses and its effect on masticatory performance. *Clin Oral Invest* 2016; 20(9):2447-55

#### 2014 – 2013

**Beretta M, Poli PP, Maiorana C.**

Accuracy of computer-aided template-guided oral implant placement: prospective clinical study. *J Periodontal Implant Sci* 2014;44:184-93

**Guerra F, Wagner W, Wiltfang J, Rocha S, Moergel M, Behrens E, Nicolau P.**

Platform switch versus platform match in the posterior mandible – 1-year results of a multicenter randomized clinical trial. *J Clin Periodontol* 2014;41:521-29

**Krennmair S, Seemann R, Weinländer M, Krennmair G, Piehslinger E.**

Immediately loaded distally cantilevered fixed mandibular prostheses supported by four implants placed in both in fresh extraction and healed sites: 2-year results from a prospective study. *Eur J Oral Implantol* 2014;7(2):173-84

**Mirisola di Torresanto V, Milinkovic I, Torsello F, Cordaro L.**

Computer-assisted flapless implant surgery in edentulous elderly patients: a 2-year follow-up. *Quintessence Int* 2014;45:419-29

**Shakibaie-M B.**

Microscope-controlled internal sinus floor elevation (MCI-SFE): a new technique to evaluate the sinus membrane during transcresal lifting. *Int J Microdent* 2013;4(1):12-9

**Shakibaie-M B.**

Comparison of the effectiveness of two different bone substitute materials for socket preservation after tooth extraction: a controlled clinical study. *Int J Periodontics Restorative Dent* 2013;33:223-8

**Stimmelmayer M, Güth JF, Erdelt K, Happe A, Schlee M, Beuer F.**

Clinical study evaluating the discrepancy of two different impression techniques of four implants in an edentulous jaw. *Clin Oral Investig* 2013;17(8):1929-35

**Wolfart S, Moll D, Hilgers RD, Wolfart M, Kern M.**

Implant placement under existing removable dental prostheses and its effect on oral health-related quality of life. *Clin Oral Impl Res* 2013;12:1354-9

**2012 – 2011****Beretta M, Barboglio M, Panigalli A, Pivetti L, Maiorana C.**

Healing abutment influence on peri-implant soft tissue healing. A randomized control trial. Poster 105, 20th Annual Scientific Meeting EAO Athens, October 12-15, 2011

**Heberer S, Al-Chawaf B, Jablonski C, Nelson JJ, Lage H, Nelson K.**

Healing of ungrafted and grafted extraction sockets after 12 weeks: a prospective clinical study. *Int J Oral Maxillofac Implants* 2011;26:385-92

**Krennmair G, Seemann R, Fazekas A, Ewers R, Piehslinger E.**

Patient preference and satisfaction with implant-supported mandibular overdentures retained with ball or locator attachments: a cross over clinical trial. *Int J Maxillofac Implants* 2012;27:1560-8

**Krennmair G, Seemann R, Weinländer M, Piehslinger E.**

Comparison of ball and telescopic crown attachments in implant-retained mandibular overdentures: a 5-year prospective study. *Int J Oral Maxillofac Implants* 2011;26:598-606

**Krennmair G, Sütö D, Seemann R, Piehslinger E.**

Removable four implant-supported mandibular overdentures rigidly retained with telescopic crowns or milled bars: a 3-year prospective study. *Clin Oral Impl Res* 2012;23:481-8

**Özkan Y, Aköglü B, Kulak-Özkan Y.**

Maxillary sinus floor augmentation using bovine bone grafts with simultaneous implant placement: a 5-year prospective follow-up study. *Implant Dent* 2011;20:445-59

**Schwarz F, John G, Mainusch S, Sahm N, Becker J.**

Combined surgical therapy of peri-implantitis evaluating two methods of surface debridement and decontamination. A two-year clinical follow-up. *J Clin Periodontol* 2012;39:789-97

**Schwarz F, Sahm N, Becker J.**

Impact of the outcome of guided bone regeneration in dehiscence-type defects on the long-term stability of peri-implant health: clinical observations at 4 years. *Clin Oral Impl Res* 2012;23:191-6

**Stimmelmayer M, Stangl M, Edelhoff D, Beuer F.**

Clinical prospective study of a modified technique to extend the keratinized gingiva around implants in combination with ridge augmentation: one-year results. *Int J Oral Maxillofac Implants* 2011;26:1094-101

**2010 – 2009****Becker J, Al-Nawas B, Klein MO, Schliephake H, Terheyden H, Schwarz F.**

Use of a new cross-linked collagen membrane for the treatment of dehiscence-type defects at titanium implants: A prospective randomized controlled double-blinded clinical multicenter study. *Clin Oral Impl Res* 2009;20:742-9

**Bürgers R, Gerlach T, Hahnel S, Schwarz F, Handel G, Gosau M.**

In vivo and in vitro biofilm formation on two different titanium implant surfaces. *Clin Oral Impl Res* 2010;21:156-64

**Heberer S, Nelson K.**

Clinical evaluation of a modified method of vestibuloplasty using an implant-retained splint. *J Oral Maxillofac Surg* 2009;67:624-9

**Heberer S, Rühle B, Krekeler L, Schink T, Nelson JJ, Nelson K.**

A prospective randomized split-mouth study comparing iliac onlay grafts in atrophied edentulous patients: covered with periosteum or a bioresorbable membrane. *Clin Oral Impl Res* 2009;20:319-26

**Hu X, Lin Y, Metzmacher AR, Zhang Y.**

Sinus membrane lift using a water balloon followed by bone grafting and implant placement: a 28-case report. *Int J Prosthodont* 2009;22:243-7

**Shakibaie-M B.**

Socket und Ridge Preservation aus dreidimensionaler Sicht. – Eine klinische Studie – Socket and ridge preservation from the three-dimensional perspective – a clinical study. *Z Zahnärztl Impl* 2009;25(4):369-77

**Weinländer M, Piehslinger E, Krennmair G.**

Removable implant-prosthodontic rehabilitation of the edentulous mandible: five-year results of different prosthetic anchorage concepts. *Int J Oral Maxillofac* 2010;25:589-97

**2008 – 2007****Karabuda C, Yaltirik M, Bayraktar M.**

A clinical comparison of prosthetic complications of implant-supported overdentures with different attachment systems. *Implant Dent* 2008;17:74-81

**Krennmair G, Krainhöfner M, Piehslinger E.**

The influence of bar design (round versus milled bar) on prosthodontic maintenance of mandibular overdentures supported by 4 implants: a 5-year prospective study. *Int J Prosthodont* 2008;21:514-20

**Krennmair G, Krainhöfner M, Weinländer M, Piehslinger E.**

Provisional implants for immediate restoration partially edentulous jaws: a clinical study. *Int J Oral Maxillofac Implants* 2008;23:717-25

**Nelson K, Heberer S, Glatzer C.**

Survival analysis and clinical evaluation of implant-retained prostheses in oral cancer resection patients over a mean follow-up period of 10 years. *J Prosthet Dent* 2007;98:405-10

**Özkan Y, Ozcan M, Aköglü B, Ucankale M, Kulak-Özkan Y.**

Three-year treatment outcomes with three brands of implants placed in the posterior maxilla and mandible of partially edentulous patients. *J Prosthet Dent* 2007;97:78-84

## Retrospective Data

### 2021 – 2022

**Edinger DH, Beuer F.**

Rehabilitation of one-piece screw-retained implant crowns placed at second-stage surgery – a retrospective patient series. *Clin Oral Investig*. 2021;25(3):1345-51

**Graf T, Kraus V, Schubert O, Erdelt K, Edelhoff D, Stimmelmayer M.**

Up to 10-year incidence of complications in fixed vs removable implant-supported restorations for edentulous arches. *Int J Prosthodont* 2022;35(3):269-77

**Happe A, von Glasser GS, Neugebauer J, Strick K, Smeets R, Rutkowski R.**

Clinical performance of zirconia implant abutments luted to a titanium base - a retrospective cross-sectional study. *Int J Comput Dent* 2022;25(1):37-45

**Pieralli S, Spies BC, Schweppe F, Preissner S, Nelson K, Heiland M, Nahles S.**

Retrospective long-term clinical evaluation of implant-prosthetic rehabilitations after head and neck cancer therapy. *Clin Oral Implants Res* 2021;32(4):470-86

**Xiaotong D, Hong H, Ying W, Xinyue Z, Mingjie S, Xiaochen L.**

Moderate application of short implants in atrophic posterior jaw areas. *Chin J Oral Implantol*. 2021;26(2):109-13

**Zafiroopoulos GG, Abuzayeda M, Al-Asfour AA, Quasim AAB, Pelekos G, Murray CA.**

Tooth-implant connection with fixed partial dentures in partially edentulous arches. A retrospective cohort study over an 11.8 year observation period. *J Clin Exp Dent*. 2021 1;13(7):e659- e668

### 2019 – 2020

**Lorenz J, Blume M, Korzinskas T, Ghanaati S, Sader RA.**

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(1):3

**Ruppin JM.**

One-year clinical experience with Progressive-Line implants. Retrospective monocentric study. *EDI Journal*. 2020;4:54-63

### 2017 – 2018

**Seemann R, Jirku A, Wagner F, Wutzl A.**

What do sales data tell us about implant survival? *PLoS ONE* 2017 12(2):e0171128. doi:10.1371/ journal.pone.0171128

**Schnutenhaus S, Edelmann C, Rudolph H, Dreyhaupt J, Luthardt RG.**

3D accuracy of implant positions in template-guided implant placement as a function of the remaining teeth and the surgical procedure: A retrospective study. *Clin Oral Invest*. 2018;22(6):2363-72

### 2015 – 2016

**Krennmair S, Weinlander M, Forstner T, Krennmair G, Stimmelmayer M.**

Factors affecting peri-implant bone resorption in four Implant supported mandibular full-arch restorations: a 3-year prospective study. *J Clin Periodontol* 2016; 43: 92–101

**Rabel A, Köhler SG, Schmidt-Westhausen AM.**

Clinical study on the primary stability of two dental implant systems with resonance frequency analysis. *Clin Oral Invest* 2007;11(3):257-65

**Schwarz F, Herten M, Sager M, Bieling K, Sculean A, Becker J.**

Comparison of naturally occurring and ligature-induced peri-implantitis bone defects in humans and dogs. *Clin Oral Impl Res* 2007;18:161-70

**Strietzel FP, Reichart PA.**

Oral rehabilitation using Camlog® screw-cylinder implants with a particle-blasted and acid-etched microstructured surface. *Clin Oral Impl Res* 2007;18:591-600

**Strietzel FP, Reichart PA, Graf HL.**

Lateral alveolar ridge augmentation using a synthetic nanocrystalline hydroxyapatite bone substitution material (Ostim®): preliminary clinical and histological results. *Clin Oral Impl Res* 2007;18:743-51

**Stübinger S, Nuss K, Landes C, von Rechenberg B, Sader R.**

Harvesting of intraoral autogenous block grafts from the chin and ramus region: preliminary results with a variable square pulse Er:YAG laser. *Laser in surgery and medicine* 2008;40:312-8

### 2006 – 2005

**Ersanli S, Karabuda C, Beck F, Leblebicioglu B.**

Resonance frequency analysis of one-stage dental implant stability during the osseointegration period. *J Periodontol* 2005;76:1066-71

**Heberer S, Nelson K.**

Modified treatment procedure for prosthetic rehabilitation of tumor patients. *EAO Zurich* September 2006

**Krennmair G, Weinländer M, Krainhofner M, Piehslinger E.**

Implant-supported mandibular overdentures retained with ball or telescopic crown attachments: a 3-year prospective study. *Int J Prosthodont* 2006;19:164-70

**Nelson K, Özyuvaci H, Bilgic B, Klein M, Hildebrand D.**

Histomorphometric evaluation and clinical assessment of endosseous implants in iliac bone grafts with shortened healing periods. *Int J Oral Maxillofac Implants* 2006;21:392-8

**Salina S, Ennas M, Colombo A, Bernazzani F, Maiorana C.**

Nuovi impianti postestrattivi immediati e carico precoce: studio preliminare. Immediate implant placement into fresh sockets and early loading: preliminary study. *European Journal of Implant Prosthodontics* 2005;1:25-34

**Schwarz F, Bieling K, Bonsmann M, Latz T, Becker J.**

Nonsurgical treatment of moderate and advanced periimplantitis lesions: a controlled clinical study. *Clin Oral Investig* 2006;10:279-88

**Schnutenhaus S, Edelmann C, Rudolph H, Luthardt, RG.**

Retrospective study to determine the accuracy of template-guided implant placement using a novel nonradiologic evaluation method  
Oral Surg Oral Med Oral Pathol Oral Radiol 2016;121:e72-e79

**Ulrici S, Barth T, Klenke J, Wolf M.**

Retrospektive Analyse von Patientenfällen mit iSy Implantaten in drei Zahnarztpraxen: Ein-Jahres Daten. Retrospective analysis of cases treated with iSy implants in three dental practices: one-year follow-up. Z Zahnärztl Impl 2015;31(4):282-94

**2014 – 2013**

**Krennmair G, Seemann R, Weinländer M, Krennmair S, Piehslinger E.**

Clinical outcome and peri-implant findings of four-implant-supported distal cantilevered fixed mandibular prostheses: five-year results. Int J Oral Maxillofac Implants 2013;28:831-40

**Sakkas A, Winter C, Wilde F, Schramm A.**

Retromolar bone grafts prior to implant placement outcomes and complications – part 1. Implants 2013;3:6-12

**2012 – 2011**

**Al-Nawas B, Kämmerer PW, Morbach T, Ophoven F, Wagner W.**

Retrospective clinical evaluation of an internal tube-in tube dental implant after 4 years, with special emphasis on peri-implant bone resorption. Int J Oral Maxillofac Implants 2011;26:1309-16

**Draenert FG, Sagheb K, Baumgardt K, Kämmerer PW.**

Retrospective analysis of survival rates and marginal bone loss on short implants in the mandible. Clin Oral Impl Res 2012;23:1063-9

**Dürholt M, Weinhold DT, Dax S, Schulz S.**

Vergleich lateraler Augmentationstechniken. Comparison of lateral augmentation techniques. Z Zahnärztl Impl 2011;27(3):251-60

**Franchini I, Capelli M, Fumagalli L, Parenti A, Testori T.**

Multicenter retrospective analysis of 201 consecutively placed Camlog dental implants. Int J Periodontics Restorative Dent 2011;31:255-63

**Krennmair G, Seemann R, Weinländer M, Wegscheider W, Piehslinger E.**

Implant-prosthetic rehabilitation of anterior partial edentulism: a clinical review. Int J Oral Maxillofac Implants 2011;26:1043-50

**Özkan Y, Aköglu B, Kulak-Özkan Y.**

Five-year treatment outcomes with four types of implants in the posterior maxilla and mandible in partially edentulous patients: a retrospective study. Int J Oral Maxillofac Implants 2011;26:639-47

**Pietruski JK, Pietruska MD, Sajewicz E.**

Long-term follow-up of conical crown-retained dentures fabricated using different technologies. Int J Periodontics Restorative Dent 2012;32:467-75

**Scheiderbauer GC.**

Hydrodynamischer Sinuslift mit Augmentation and Implantation – Clinical application of piezo-surgical hydrodynamic sinus lift procedures in combination with augmentation and implantation. Z Zahnärztl Impl 2012;28(4):314-24

**Siebers D, Gehrke P, Schliephake H.**

Sofortfunktion in der zahnärztlichen Praxis. Immediate function in a dental practice. Z Zahnärztl Impl 2011;27(3):220-39

**2010 – 2009**

**Ackermann KL.**

Extraction site management using a natural bone mineral containing collagen: rationale and retrospective case study. Int J Periodontics Restorative Dent 2009;29:489-97

**De Lange GL, Randelzhofer P, Sipos P, de Bruin M, Both CJ.**

Survival and risks of immediate placed anterior implants Poster 19th Annual Scientific Meeting EAO Glasgow, October 6-9, 2010

**Krennmair G, Piehslinger E.**

Removable implant-supported maxillary prostheses anchored on milled bars: a retrospective evaluation of two concepts. Int J Prosthodont 2009;22:576-8

**Krennmair G, Seemann R, Piehslinger E.**

Dental implants in patients with rheumatoid arthritis: clinical outcome and peri-implant findings. J Clin Periodontol 2010;37:928-36

**Krennmair G, Seemann R, Schmidinger S, Ewers R, Piehslinger E.**

Clinical outcome of root-shaped dental implants of various diameters: 5-year results. Int J Oral Maxillofac Implants 2010;25:357-66

**Lixin H, Hu X, Mehrhof J, Nelson K.**

Clinical evaluation of a fixed (retrievable) implant-supported prosthesis in the edentulous jaw: a 5-year report. Quintessence Int 2010;41:277-83

**Ricken L, Vogel S.**

Überlebensrate sofort belasteter Implantate, Survival of immediately loaded implants. Z Zahnärztl Imp 2010;26(3):269-76

**Semper W, Heberer S, Nelson K.**

Retrospective analysis of bar-retained dentures with cantilever extension: marginal bone level changes around dental implants over time. Int J Oral Maxillofac Implants 2010;25:385-93

**Semper W, Heberer S, Nelson K.**

Carico precoce su impianti a forma radicolare e conici con superficie mordenzata e sabbata. Follow up clinico a 6 anni. Implant tribune 2009;3(2):16-8

**Siebers D, Gehrke P, Schliephake H.**

Delayed function of dental implants: a 1- to 7-year follow-up study of 222 implants. Int J Oral Maxillofac Implants 2010;25:1195-202

**Tesch J, Tesch P, Lysek DA.**

Long-term results after lateral and osteotome technique sinus floor elevation: a retrospective analysis of 2190 implants over a time period of 15 years. Clin Oral Impl Res 2010;21:497-503

**Weinländer M, Krennmair G, Piehslinger E.**

Implant prosthetic rehabilitation of patients with rheumatic disorders: a case series report. Int J Prosthodont 2010;23:22-8

**Zafiropoulos GG, Deli G, Bartee BK, Hoffmann O.**

Single-tooth implant placement and loading in fresh and regenerated extraction sockets. 5 year results. a case series using two different implant designs. *J Periodontol* 2010;81:604-15

#### 2008 – 2007

**Krennmair G, Krainhöfner M, Piehslinger E.**

Implant-supported maxillary overdentures retained with milled bars: maxillary anterior versus maxillary posterior concept – a retrospective study. *Int J Oral Maxillofac Implants* 2008;23:343-52

**Krennmair G, Krainhöfner M, Piehslinger E.**

Implant-supported mandibular overdentures retained with a milled bar: a retrospective study. *Int J Oral Maxillofac Implants* 2007;22:987-94

**Krennmair G, Krainhöfner M, Schmid-Schwab M, Piehslinger E.**

Maxillary sinus lift for single implant-supported restorations: a clinical study. *Int J Oral Maxillofac Implants* 2007;22:351-8

**Krennmair G, Krainhöfner M, Waldenberger O, Piehslinger E.**

Dental implants as strategic supplementary abutments for implant-tooth-supported telescopic crown-retained maxillary dentures: a retrospective follow-up study for up to 9 years. *Int J Prosthodont* 2007;20:617-22

**Nelson K, Semper W, Hildebrand D, Özyuvaci H.**

A retrospective analysis of sandblasted, acid-etched implants with reduced healing times with an observation period of up to 5 years. *Int J Oral Maxillofac Implants* 2008;23:726-32

**Semper W, Heberer S, Nelson K.**

Early loading of root form and conical implants with a sandblasted large-grit acid-etched surface: a 6-year clinical follow-up. *Implants* 2008;2:14-9

**Semper W, Hildebrand D, Özyuvaci H, Nelson K.**

Erfolgsrate von Implantaten mit sandgestrahlter und geätzter Oberfläche im Oberkiefer nach einer Einheilzeit von zwölf Wochen: eine retrospektive Analyse. Success rate of sandblasted and acid-etched maxillary implants after a healing period of twelve weeks: a retrospective analysis. *Z Zahnärztl Impl* 2007;23(3):176-85

#### 2006 – 2004

**Di P, Lin Y, Li JH, Qiu LX, Chen B, Wang X.**

Clinical application of implant supported magnet-retained overdenture [Article in Chinese]. *Zhonghua Kou Qiang Yi Xue Za Zhi* 2006;41:193-5

**Hu XL, Cui HY, Wang T, Li JH, Qui LX, Lin Y.**

Application of implant-supported telescopic overdenture in edentulous cases [Article in Chinese]. *Zhonghua Kou Qiang Yi Xue Za Zhi* 2006;41:391-4

**Lin Y, Li JH, Qiu LX, Di P, Hu XL, Wang X.**

A clinical retrospective study of 10 years implant results [Article in Chinese]. *Zhonghua Kou Qiang Yi Xue Za Zhi* 2006;41:131-5

**Yerit KC, Posch M, Hainich S, Turhani D, Klug C, Wanschitz F, Wagner A, Watzinger F, Ewers R.**

Long-term implant survival in the grafted maxilla: results of a 12-year retrospective study. *Clin Oral Impl Res* 2004;15:693-9

## Animal Studies

#### 2019 - 2020

**Schwarz F, Mihatovic I, Popal-Jensen I, Parvini P, Sader R.**

Influence of autoclavation on the efficacy of extracted tooth roots used for vertical alveolar ridge augmentation. *J Clin Periodontol* 2019;46(4):502-9

**Thoma DS, Lim HC, Paeng KW, Jung UW, Hämmerle CHF, Jung RE.**

Tissue integration of zirconia and titanium implants with and without buccal dehiscence defects – A histologic and radiographic preclinical study. *Clin Oral Impl Res.* 2019;30(7):660-9

#### 2017 – 2018

**Becker K, Klitzsch I, Strauber M, Schwarz F.**

Three-dimensional assessment of crestal bone levels at titanium implants with different abutment microstructures and insertion depths using micro-computed tomography. *Clin Oral Impl Res* 2017;28:671-6

**Lim HC, Jung RE, Hämmerle CHF, Kim MJ, Paeng KW, Jung UW, Thoma DS.**

Tissue integration of zirconia and titanium implants with and without buccal dehiscence defects. *J Periodontal Implant Sci.* 2018;48(3):182-92

**Mehl C, Kern M, Neumann F, Bähr T, Wiltfang J, Gassling V.**

Effect of ultraviolet photofunctionalization of dental titanium implants on osseointegration. *J Zhejiang Univ-Sci B (Biomed & Biotechnol)* 2018;19(7):525-34

#### 2015 – 2016

**Mehl C, Gassling V, Schultz-Langerhans S, Açil Y, Bähr T, Wiltfang J, Kern M.**

Influence of four different abutment materials and the adhesive joint of two-piece abutments on cervical implant bone and soft tissue. *Int J Oral Maxillofac Implants* 2016;31:1264-72

**Schwarz F, Mihatovic I, Golubovich V, Schär A, Sager M, Becker J.**

Impact of abutment microstructure and insertion depth on crestal bone changes at nonsubmerged titanium implants with platform switch. *Clin Oral Impl Res* 2015;26:287-92

#### 2014 – 2013

**Mehl C, Becker ST, Acil Y, Harder S, Wiltfang J, Dabbagh-Afrouz AA, de Buhr W, Kern M.**

Impact of vertical loading on the implant-bone interface. *Clin Oral Impl Res* 2013;24:949-56

**Schwarz F, Mihatovic I, Shirakata Y, Becker J, Bosshardt D, Sculean A.**

Treatment of soft tissue recessions at titanium implants using a resorbable collagen matrix: a pilot study. *Clin Oral Impl Res* 2014;25:110-5

**Wang D, Künzel A, Golubovic V, Mihatovic I, John G, Chen Z, Becker J, Schwarz F.**

Accuracy of peri-implant bone thickness and validity of assessing bone augmentation material using cone beam computed tomography. *Clin Oral Investig* 2013;17:1601-9



## 2012 – 2011

**Becker K, Mihatovic I, Golubovic V, Schwarz F.**

Impact of abutment material and dis-/re-connection on soft and hard tissue changes at implants with platform-switching. *J Clin Periodontol* 2012;39:774-80

**Schwarz F, Sahm N, Mihatovic I, Golubovic V, Becker J.**

Surgical therapy of advanced ligature-induced peri-implantitis defects: cone-beam computed tomographic and histological analysis. *J Clin Periodontol* 2011;38:939-49

## 2010 – 2009

**Becker J, Ferrari D, Mihatovic I, Sahm N, Schär A, Schwarz F.**

Stability of crestal bone level at platform switched non-submerged titanium implants. a histomorphometrical study in dogs. *J Clin Periodontol* 2009;36:532-9

**Benlidayi ME, Kürkcü M, Öz IA, Sertdemir Y.**

Comparison of two different forms of bovine-derived hydroxyapatite in sinus augmentation and simultaneous implant placement: an experimental study. *Int J Oral Maxillofac Implants* 2009;24:704-11

**Stübinger S, Biermeier K, Bächli B, Ferguson SJ, Sader R, von Rechenberg B.**

Comparison of Er:YAG laser, piezoelectric, and drill osteotomy for dental implant site preparation: a biomechanical and histological analysis in sheep. *Lasers Surg Med* 2010;42:652-61

## 2008 – 2007

**Becker J, Ferrari D, Herten M, Kirsch A, Schär A, Schwarz F.**

Influence of platform switching on crestal bone changes at non-submerged titanium implants: a histomorphometrical study in dogs. *J Clin Periodontol* 2007;34:1089-96

**Schwarz F, Herten M, Bieling K, Becker J.**

Crestal bone changes at nonsubmerged implants (Camlog) with different machined collar lengths: a histomorphometric pilot study in dogs. *Int J Oral Maxillofac Implants* 2008;23:335-42

**Schwarz F, Herten M, Sager M, Bieling K, Sculean A, Becker J.**

Comparison of naturally occurring and ligature-induced peri-implantitis bone defects in humans and dogs. *Clin Oral Implants Res* 2007;18:161-70

**Schwarz F, Olivier W, Herten M, Sager M, Chaker A, Becker J.**

Influence of implant bed preparation using an Er:YAG laser on the osseointegration of titanium implants: a histomorphometrical study in dogs. *J Oral Rehabil* 2007;34:273-81

## 2006

**Becker J, Kirsch A, Schwarz F, Chatzinikolaïdou M, Rothamel D, Lekovic V, Jennissen HP.**

Bone apposition to titanium implants biocoated with recombinant human bone morphogenetic protein-2 (rhBMP-2). A pilot study in dogs. *Clin Oral Invest* 2006;10:217-224

**Becker J, Schwarz F, Kirsch A.**

Improvement of marginal bone adaptation through the new Promote® plus design. *CAMLOG News* 2006;1:2-3

# In-Vitro and Mechanical Testing

## 2021 – 2022

**Burkhardt F, Pitta J, Dehmer V, Mojon P, Sailer I.**

Retention forces of Monolithic CAD/CAM Crowns adhesively cemented to titanium base abutments – Effect of saliva contamination followed by cleaning of the titanium bond surface. *Materials* 2021;14(12):3375

**Burkhardt F, Sailer I, Fehmer V, Mojon P, Pitta J.**

Retention and marginal integrity of CAD/CAM fabricated crowns adhesively cemented to titanium base abutments - influence of bonding system and restorative material. *Int J Prosthodont* 2022, ahead of print

**Giner S, Bartolomé JF, Gomez-Cogolludo P, Castellote C, Pradies G.**

Fatigue fracture resistance of titanium and chairside CAD-CAM zirconia implant abutments supporting zirconia crowns: An in vitro comparative and finite element analysis study. *J Prosthet Dent* 2021;125(3):503.e1-503.e9

**Graf T, Güth JF, Edelhoff D, Krennmair G, Stimmelmayer M.**

Influence of butt joint connections with long guiding areas on the stability of single crowns and 3-unit bridges – an in-vitro-study. *J Prosthodont Res* 2021;65(4):455-60

**Graf T, Schweiger J, Stimmelmayer M, Erdelt K, Schubert O, Güth JF.**

Influence of monolithic restorative materials on the implant abutment interface of hybrid abutment crowns: An in vitro investigation. *J Prosthodont Res* 2022, ahead of print

**Krischik D, Tokgöz SE, van Orten A, Friedmann A, Bilhan H.**

An in vitro evaluation of primary stability values for two differently designed implants to suit immediate loading in very soft bone. *Dent J (Basel)* 2021;9(1):5

**Müller L, Rauch A, Reissmann DR, Schierz O.**

Impact of cement type and abutment height on pull-off force of zirconia reinforced lithium silicate crowns on titanium implant stock abutments: an in vitro study. *BMC Oral Health* 2021;21(1):592

**Pitta J, Burkhardt F, Mekki C, Fehmer V, Mojon P, Sailer I.**

Effect of airborne-particle abrasion of a titanium base abutment on the stability of the bonded interface and retention forces of crowns after artificial aging. *J Prosthet Dent* 2021;126(2):214-21

**Pitta J, Hjerpe J, Burkhardt F, Fehmer V, Mojon P, Sailer I.**

Mechanical stability and technical outcomes of monolithic CAD/CAM fabricated abutment-crowns supported by titanium bases: An in vitro study. *Clin Oral Implants Res* 2021;32(2):222-32

**Staedt H, Heimes D, Lehmann KM, Ottl P, Bjelopavlovic M, Wagner W, Al-Nawas B, Kämmerer PW.**

Does the modification of the apical geometry of a dental implant affect its primary stability? A comparative ex vivo study. *Materials* 2021;14(7),1728

**Van Baar GJC, Lodders JN, Chhangur C, Leeuwrik L, Forouzanfar T, Liberton NPTJ, Berkhout WER, Winters HAH, Leusink FKJ.**

The Amsterdam UMC protocol for computer-assisted mandibular and maxillary reconstruction; A cadaveric study. *Oral Oncol* 2022;133:106050

#### 2019 – 2020

**Hey J, Kasaliyska M, Kiesow A, Schweyen R, Arnold C.**

Retentive force of glass-ceramic soldered customized zirconia abutment copings with prefabricated titanium bases. *Materials (Basel)*. 2020;13(14):3193

**Krennmair S, Hunger S, Postl L, Winterhalder P, Holberg S, Malek M, Rudzki I, Holberg C.**

Edentulous mandible with four splinted interforaminal implants exposed to three different situations of trauma: A preliminary three-dimensional finite element analysis. *Dent Traumatol*. 2020;36(6):607-17

**Krennmair S, Winterhalder P, Hunger S, Rupperti S, Holberg C.**

The effects of frontal trauma on 4 interforaminal dental implants: A 3-dimensional finite element analysis comparing splinted and unspinted implant configurations. *J Oral Maxillofac Surg*. 2020;78(6):961-72

**Morita J, Wada M, Mameno T, Maeda Y, Ikebe K.**

Ideal placement of an implant considering the positional relationship to an opposing tooth in the first molar region: a three-dimensional finite element analysis. *Int J Implant Dent*. 2020;6:31

**Pitta J, Bijelic-Donova J, Burkhardt F, Fehmer V, Närhi T, Sailer I.**

Temporary implant-supported single crowns using titanium base abutments: An in vitro study on bonding stability and pull-out forces. *Int J prosthodont*. 2020;33(5):546-52

**Pitta J, Hicklin SP, Fehmer V, Boldt J, Gierthmuehlen PC, Sailer I.**

Mechanical stability of zirconia meso-abutments bonded to titanium bases restored with different monolithic all-ceramic crowns. *Int J Oral Maxillofac Implants* 2019;34(5):1091-7

**Reinisch M, Koller M, Steyer E, Glockner K, Jakse N, Payer M.**

Prosthetic complications after artificial ageing – A study with two-piece zirconia implants. *Ceramic Implants* 2020;1:6-8

**Sahrman P, Luso S, Mueller C, Ender A, Attin T, Stawarczyk B, Schmidlin PR.**

Titanium implant characteristics after implantoplasty: An in vitro study on two different kinds of instrumentation. *Int J Oral Maxillofac Implants* 2019;34(6):1299-305

**Wiedenmann F, Liebermann A, Spintzyk S, Eichberger M, Stawarczyk B.**

Influence of different cleaning procedures on tensile bond strength between zirconia abutment and titanium base. *Int J Oral Maxillofac Implants* 2019;34(6):1318-27

#### 2017 – 2018

**Gehrke P, Sing T, Fischer C, Spintzyk S, Geis-Gerstorfer J.**

Marginal and internal adaptation of hybrid abutment assemblies after central and local manufacturing, respectively. *Int J Oral Maxillofac Implants* 2018;33(4):808-14

**Lennartz A, Dohmen A, Bishti S, Fischer H, Wolfart S.**

Retrievability of implant-supported zirconia restorations cemented on zirconia abutments. *J Prosthet Dent*. 2018;120(5):740-6

**Naumova EA, Roth F, Geis B, Baulig C, Arnold WH, Piwowarczyk A.**

Influence of luting materials on the retention of cemented implant-supported crowns: An in vitro study. *Materials (Basel)* 2018; Sep 28;11(10):1853

**Obermeier M, Ristow O, Erdelt K, Beuer F.**

Mechanical performance of cement- and screw-retained all-ceramic single crowns on dental implants. *Clin Oral Invest* 2018;22(2):981-91

**Schmidt KE, Auschill TM, Heumann C, Frankenberger R, Eick S, Sculean A, Arweiler NB.**

Influence of different instrumentation modalities on the surface characteristics and biofilm formation on dental implant neck, in vitro. *Clin Oral Impl Res* 2017;28:483-90

**Stimmelmayer M, Heiss P, Erdelt K, Schweiger J, Beuer F.**

Fracture resistance of different implant abutments supporting all-ceramic single crowns after aging. *Int J Computerized Dent* 2017;20(1):53-64

#### 2015 – 2016

**Kernen F, Benic GI, Payer M, Schär A, Müller-Gerbl M, Filippi A, Kühl S.**

Accuracy of three dimensional printed templates for guided implant placement based on matching a surface scan with CBCT. *Clin Implant dent Relat Res* 2016;18:762-8

**Mehl C, Ali S, El Bahra S, Harder S, Wollrath O, Kern M.**

Is there a correlation between tensile strength and retrievability of cemented implant-retained crowns using artificial aging? *Int J Prosthodont* 2016;29:83-90

**Semper Hogg W, Zulauf K, Mehrhof J, Nelson K.**

Influence of torque tightening on the position stability of the abutment in conical implant-abutment connection. *Int J Prosthodont* 2015;28:538-41

**Stimmelmayer M, Beuer F, Edelhoff D, Güth JF.**

Implant impression techniques for the edentulous jaw: A summary of three studies. *J Prosthodontics* 2016;25:146-50

#### 2014 – 2013

**Mehl C, Harder S, Steiner M, Vollrath O, Kern M.**

Influence of cement film thickness on the retention of implant-retained crowns. *J Prosthodont* 2013; 22:618-25

**Semper-Hogg W, Kraft S, Stiller S, Mehrhof J, Nelson K.**

Analytical and experimental position stability of the abutment in different dental implant systems with a conical implant-abutment connection. *Clin Oral Investig* 2013 Apr;17(3):1017-23

#### 2012 – 2011

**Dittmer S, Dittmer MP, Kohorst P, Jendras M, Borchers L, Stiesch M.**

Effect of implant-abutment connection design on load bearing capacity and failure mode of implants. *J Prosthodontics* 2011;20:510-6

**Harder S, Quabius ES, Ossenkop L, Kern M.**

Assessment of lipopolysaccharide microleakage at conical implant-abutment connections. *Clin Oral Investig* 2012;16(5):1377-84

**Mehl C, Harder S, Schwarz D, Steiner M, Vollrath O, Kern M.**

In vitro influence of ultrasonic stress, removal force preload and thermocycling on the retrievability of implant-retained crowns. *Clin Oral Impl Res* 2012;23:930-7

**Mehl C, Harder S, Shahriari A, Steiner M, Kern M.**

Influence of abutment height and thermocycling on retrievability of cemented implant-supported crowns. *Int J Oral Maxillofac Implants* 2012;27:1106-15

**Rupp F, Scheideler L, Eichler M, Geis-Gerstorfer J.**

Wetting behavior of dental implants. *Int J Oral Maxillofac Implants* 2011;26:1256-66

**Semper W, Stiller S, Mehrhof J, Schmelzeisen R, Nelson K.**

Position accuracy of re-positioned abutments in implant systems with a tapered implant-abutment connection, Poster, 4th International Conference ADT Freiburg, May 5-8, 2011

**Simeone P, Valentini PP, Pizzoferrato R, Scudieri F.**

Dimensional accuracy of pickup implant impression: an in vitro comparison of novel modular versus standard custom trays. *Int J Oral Maxillofac Implants* 2011;26:538-46

**Stimmelmayr M, Edelhoff D, Güth JF, Erdelt K, Happe A, Beuer F.**

Wear at the titanium-titanium and the titanium-zirconia implant-abutment interface: a comparative in vitro study. *Dental Materials* 2012;28:1215-20

**Stimmelmayr M, Erdelt K, Güth JF, Happe A, Beuer F.**

Evaluation of impression accuracy for a four-implant mandibular model – a digital approach. *Clin Oral Invest* 2012;16(4):1137-42

**Stimmelmayr M, Güth JF, Erdelt K, Edelhoff D, Beuer F.**

Digital evaluation of the reproducibility of implant scanbody fit – an in vitro study. *Clin Oral Invest* 2012;16(3):851-6

#### 2010 – 2009

**Kim SG, Park JU, Jeong JH, Bae C, Bae TS, Chee W.**

In vitro evaluation of reverse torque value of abutment screw and marginal opening in a screw- and cement-retained implant fixed partial denture design. *Int J Oral Maxillofac Implants* 2009;24:1061-7

**Semper W, Heberer S, Mehrhof J, Schink T, Nelson K.**

Effects of repeated manual disassembly and reassembly on the positional stability of various implant-abutment complexes: an experimental study. *Int J Oral Maxillofac Implants* 2010;25:86-94

**Semper W, Kraft S, Krüger T, Nelson K.**

Theoretical optimum of implant positional index design. *J Dent Res* 2009;88(8):731-5

**Semper W, Kraft S, Krüger T, Nelson K.**

Theoretical considerations: Implant positional index design. *J Dent Res* 2009;88(8):725-30

**Semper W, Kraft S, Mehrhof J, Nelson K.**

Impact of abutment rotation and angulation on marginal fit: theoretical considerations. *Int J Oral Maxillofac Implants* 2010;25:752-8

**Ungvári K, Pelsöczy IK, Kormos B, Oszkó A, Rakonczay Z,**

**Kemény L, Radnai M, Nagy K, Fazekas A, Turzó K.**

Effect on titanium implant surfaces of chemical agents used for the treatment of peri-implantitis. *J Biomed Mater Res Part B: Appl Biomater* 94B 222-9, 2010

#### 2008 – 2007

**Ebert A, Hedderich J, Kern M.**

Retention of zirconia ceramic copings bonded to titanium abutments. *Int J Oral Maxillofac Implants* 2007;22:921-7

**Mehl C, Harder S, Wolfart M, Kern M, Wolfart S.**

Retrievability of implant-retained crowns following cementation. *Clin Oral Impl Res* 2008;19:1304-11

**Neugebauer J, Lingohr T, Karapetian VE,**

**Shihadeh R, Zöllner JE.**

Accuracy of manual torque-limiting devices for use in oral implantology. *EDI Journal* 2008;4:48-52

**Steinebrunner L, Wolfart S, Ludwig K, Kern M.**

Implant-abutment interface design affects fatigue and fracture strength of implants. *Clin Oral Impl Res* 2008;19:1276-84

#### 2006 – 2005

**Sakoh J, Wahlmann U, Stender E, Al-Nawas B, Wagner W.**

Primary stability of a conical implant and a hybrid, cylindrical screw-type implant in vitro. *Int J Oral Maxillofac Implants* 2006;21:560-6

**Steinebrunner L, Wolfart S, Bössmann K, Kern M.**

In vitro evaluation of bacterial leakage along the implant-abutment interface of different implant systems. *Int J Oral Maxillofac Implants* 2005;20:875-81

**Wolfart M, Wolfart S, Kern M.**

Retention forces and seating discrepancies of implant-retained castings after cementation. *Int J Oral Maxillofac Implants* 2006;21:519-25

### Headquarters

CAMLOG Biotechnologies GmbH | Margarethenstr. 38 | 4053 Basel | Switzerland  
Phone +41 61 565 41 00 | Fax +41 61 565 41 01 | [info@camlog.com](mailto:info@camlog.com) | [www.camlog.com](http://www.camlog.com)

CAMLOG®, CONELOG®, iSy® and Promote® are registered trademarks of Camlog Biotechnologies GmbH. They may, however, not be registered in all markets. Manufacturer of Camlog® products: ALTATEC GmbH | Maybachstr. 5 | 71299 Wimsheim | Germany

