
Newly included further literature, as given in Tables

[1] Pjetursson BE, Sailer I, Zwahlen M, Hammerle CH. A systematic review of the survival and complication rates of all-ceramic and metal-ceramic reconstructions after an observation period of at least 3 years. Part I: Single crowns. *Clinical oral implants research*, 2007;18 Suppl. 3:73–85.

[2] Sailer I, Pjetursson BE, Zwahlen M, Hammerle CH. A systematic review of the survival and complication rates of all-ceramic and metal-ceramic reconstructions after an observation period of at least 3 years. Part II: Fixed dental prostheses. *Clinical oral implants research*. 2007;18 Suppl 3:86–96.

- [3] Edelhoff D, Brix O. All-ceramic restorations in different indications: a case series. *Journal of the American Dental Association*. 2011;142 Suppl 2:14S–9S.
- [4] Walton TR. Making sense of complication reporting associated with fixed dental prostheses. *The International journal of prosthodontics*. 2014;27:114–8.
- [5] Raigrodski AJ, Chiche GJ, Potiket N, Hochstedler JL, Mohamed SE, Billiot S, et al. The efficacy of posterior three-unit zirconium-oxide-based ceramic fixed partial dental prostheses: a prospective clinical pilot study. *The Journal of prosthetic dentistry*. 2006;96:237–44.
- [6] Kirkwood BR, Sterne JAC. *Medical Statistics, Chapter 24: Poisson Regression* Oxford: Blackwell Science Ltd. 2003.
- [7] Kirkwood BR, Sterne JAC. *Essential Medical Statistics, Chapter 26: Survival Analysis: Displaying and Comparing Survival Patterns* Oxford: Blackwell Science Ltd. 2003.
- [8] Passia N, Stampf S, Strub JR. Five-year results of a prospective randomized controlled clinical trial of posterior computer-aided design-computer-aided manufacturing ZrSiO₄-ceramic crowns. *Journal of oral rehabilitation*. 2013;40:609–17.
- [9] Cehreli MC, Kokat AM, Ozpay C, Karasoy D, Akca K. A randomized controlled clinical trial of feldspathic versus glass-infiltrated alumina all-ceramic crowns: a 3-year follow-up. *The International journal of prosthodontics*. 2011;24:77–84.
- [10] Naumann M, Ernst J, Reich S, Weisshaupt P, Beuer F. Galvano- vs. metal-ceramic crowns: up to 5-year results of a randomized split-mouth study. *Clinical oral investigations*. 2011;15:657–60.
- [11] Wolleb K, Sailer I, Thoma A, Menghini G, Hammerle CH. Clinical and radiographic evaluation of patients receiving both tooth- and implant-supported prosthodontic treatment after 5 years of function. *The International journal of prosthodontics*. 2012;25:252–9.
- [12] Malament KA, Socransky SS. Survival of Dicor glass-ceramic dental restorations over 20 years: Part IV. The effects of combinations of variables. *The International journal of prosthodontics*. 2010;23:134–40.
- [13] Ortorp A, Kihl ML, Carlsson GE. A 3-year retrospective and clinical follow-up study of zirconia single crowns performed in a private practice. *J Dent*. 2009;37:731–6.
- [14] Rinke S, Schafer S, Lange K, Gersdorff N, Roediger M. Practice-based clinical evaluation of metal-ceramic and zirconia molar crowns: 3-year results. *Journal of oral rehabilitation*. 2013;40:228–37.
- [15] Sax C, Hammerle CH, Sailer I. 10-year clinical outcomes of fixed dental prostheses with zirconia frameworks. *International journal of computerized dentistry*. 2011;14:183–202.
- [16] Sailer I, Gottner B, Kanelb S, Hammerle CH. Randomized controlled clinical trial of zirconia-ceramic and metal-ceramic posterior fixed dental prostheses: a 3-year follow-up. *The International journal of prosthodontics*. 2009;22:553–60.
- [17] Schley JS, Heussen N, Reich S, Fischer J, Haselhuhn K, Wolfart S. Survival probability of zirconia-based fixed dental prostheses up to 5 yr: a systematic review of the literature. *European journal of oral sciences*. 2010;118:443–50.
- [18] Heintze SD, Rousson V. Survival of zirconia- and metal-supported fixed dental prostheses: a systematic review. *The International journal of prosthodontics*. 2010;23:493–502.
- [19] Gherlone E, Mandelli F, Cappare P, Pantaleo G, Traini T, Ferrini F. A 3 years retrospective study of survival for zirconia-based single crowns fabricated from intraoral digital impressions. *J Dent*. 2014.
- [20] Koenig V, Vanheusden AJ, Le Goff SO, Mainjot AK. Clinical risk factors related to failures with zirconia-based restorations: an up to 9-year retrospective study. *J Dent*. 2013;41:1164–74.
- [21] Edelhoff D, Sorensen JA. Tooth structure removal associated with various preparation designs for anterior teeth. *The Journal of prosthetic dentistry*. 2002;87:503–9.
- [22] Edelhoff D, Sorensen JA. Tooth structure removal associated with various preparation designs for posterior teeth. *Int J Periodontics Restorative Dent*. 2002;22:241–9.

List of excluded full-text articles and the reason for exclusion

- [1] Mansour YF, Al-Omiri MK, Khader YS, Al-Wahadni A. (2008) Clinical performance of IPS-Empress 2 ceramic crowns inserted by general dental practitioners. *The Journal of Contemporary Dental Practice*. 9(4):9–16. Exclusion criteria: mean follow-up time < 3 years.
- [2] Cagidiaco MC, García-Godoy F, Vichi A, Grandini S, Goracci C, Ferrari M. (2008) Placement of fiber prefabricated or custom made posts affects the 3-year survival of endodontically treated premolars. *American Journal of Dentistry*. 21(3):179–84. Exclusion criteria: no specific information on crown material and no detailed outcomes.
- [3] Ortorp A, Kihl ML, Carlsson GE. (2009) A 3-year retrospective and clinical follow-up study of zirconia single crowns performed in a private practice. *Journal of Dentistry*. 37(9):731–6. Exclusion criteria: multiple publication of the same patient cohort.
- [4] Walton TR. (2009) Changes in the outcome of metal-ceramic tooth-supported single crowns and FDPs following the introduction of osseointegrated implant dentistry into a prosthodontic practice. *The International Journal of Prosthodontics*. 22(3):260–7. Exclusion criteria: multiple publication of the same patient cohort.
- [5] Burke FJ, Lucarotti PS. (2009) Ten-year outcome of crowns placed within the General Dental Services in England and Wales. *Journal of Dentistry*. 37(1):12–24. Exclusion criteria: based on a chart review.
- [6] Groten M, Huttig F. (2010) The performance of zirconium dioxide crowns: a clinical follow-up. *The International Journal of Prosthodontics*. 23(5):429–31. Exclusion criteria: mean follow-up time < 3 years.
- [7] Rinke S, Schäfer S, Roediger M. (2011) Complication rate of molar crowns: a practice-based clinical evaluation. *International Journal of Computerized Dentistry*. 14(3):203–18. Exclusion criteria: mean follow-up time < 3 years.
- [8] Silva NR, Thompson VP, Valverde GB, Coelho PG, Powers JM, Farah JW, Esquivel-Upshaw J. (2011) Comparative

reliability analyses of zirconium oxide and lithium disilicate restorations in vitro and in vivo. *Journal of the American Dental Association* (1939). 142 Suppl 2:4S–9S.

Exclusion criteria: data not specified between implant and tooth abutments, single crowns and bridges.

REFERENCES

- [1] Pjetursson BE, Sailer I, Zwahlen M, Hammerle CH. A systematic review of the survival and complication rates of all-ceramic and metal-ceramic reconstructions after an observation period of at least 3 years. Part I: Single crowns. *Clin Oral Implants Res* 2007;18(Suppl. 3):73–85.
- [2] Sailer I, Pjetursson BE, Zwahlen M, Hammerle CH. A systematic review of the survival and complication rates of all-ceramic and metal-ceramic reconstructions after an observation period of at least 3 years. Part II: Fixed dental prostheses. *Clin Oral Implants Res* 2007;18(Suppl. 3):86–96.
- [3] Edelhoff D, Brix O. All-ceramic restorations in different indications: a case series. *J Am Dent Assoc* 2011;142(Suppl. 2):14S–9S.
- [4] Walton TR. Making sense of complication reporting associated with fixed dental prostheses. *Int J Prosthodont* 2014;27:114–8.
- [5] Raigrodski AJ, Chiche GJ, Potiket N, Hochstedler JL, Mohamed SE, Billiot S, et al. The efficacy of posterior three-unit zirconium-oxide-based ceramic fixed partial dental prostheses: a prospective clinical pilot study. *J Prosthet Dent* 2006;96:237–44.
- [6] Kirkwood BR, Sterne JAC. Medical statistics. Chapter 24: poisson regression. Oxford: Blackwell Science Ltd; 2003.
- [7] Kirkwood BR, Sterne JAC. Essential medical statistics. Chapter 26: survival analysis: displaying and comparing survival patterns. Oxford: Blackwell Science Ltd; 2003.
- [8] Passia N, Stampf S, Strub JR. Five-year results of a prospective randomised controlled clinical trial of posterior computer-aided design-computer-aided manufacturing ZrSiO₄-ceramic crowns. *J Oral Rehabil* 2013;40: 609–17.
- [9] Cehreli MC, Kokat AM, Ozpay C, Karasoy D, Akca K. A randomized controlled clinical trial of feldspathic versus glass-infiltrated alumina all-ceramic crowns: a 3-year follow-up. *Int J Prosthodont* 2011;24:77–84.
- [10] Naumann M, Ernst J, Reich S, Weisshaupt P, Beuer F. Galvano- vs. metal-ceramic crowns: up to 5-year results of a randomised split-mouth study. *Clin Oral Investig* 2011;15:657–60.
- [11] Sax C, Hammerle CH, Sailer I. 10-year clinical outcomes of fixed dental prostheses with zirconia frameworks. *Int J Comput Dent* 2011;14:183–202.
- [12] Sailer I, Gottnerb J, Kanelb S, Hammerle CH. Randomized controlled clinical trial of zirconia-ceramic and metal-ceramic posterior fixed dental prostheses: a 3-year follow-up. *Int J Prosthodont* 2009;22:553–60.
- [13] Schley JS, Heussen N, Reich S, Fischer J, Haselhuhn K, Wolfart S. Survival probability of zirconia-based fixed dental prostheses up to 5 yr: a systematic review of the literature. *Eur J Oral Sci* 2010;118:443–50.
- [14] Heintze SD, Rousson V. Survival of zirconia- and metal-supported fixed dental prostheses: a systematic review. *Int J Prosthodont* 2010;23:493–502.
- [15] Gherlone E, Mandelli F, Cappare P, Pantaleo G, Traini T, Ferrini F. A 3 years retrospective study of survival for zirconia-based single crowns fabricated from intraoral digital impressions. *J Dent* 2014;49(9):1151–5.
- [16] Koenig V, Vanheusden AJ, Le Goff SO, Mainjot AK. Clinical risk factors related to failures with zirconia-based restorations: an up to 9-year retrospective study. *J Dent* 2013;41:1164–74.
- [17] Edelhoff D, Sorensen JA. Tooth structure removal associated with various preparation designs for anterior teeth. *J Prosthet Dent* 2002;87:503–9.
- [18] Edelhoff D, Sorensen JA. Tooth structure removal associated with various preparation designs for posterior teeth. *Int J Periodont Restor Dent* 2002;22:241–9.