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**Einfluss der adhäsiven Befestigung auf die ästhetischen Eigenschaften
monolithischer Glaskeramikrestaurationen – ein Literaturüberblick**

- [1] Azer SS et al.: Effect of esthetic core shades on the final color of IPS Empress all-ceramic crowns. *Journal of Prosthetic Dentistry* 96 (6), 397–401 (2006).
- [2] Baader K et al.: Self-adhesive luting of partial ceramic crowns: selective enamel etching leads to higher survival after 6.5 years in vivo. *Journal of Adhesive Dentistry* 18 (1), 69-79 (2016).
- [3] Balderamos LP, O’Keefe KL, Powers JM: Color accuracy of resin cements and try-in pastes. *International Journal of Prosthodontics* 10 (2), 111-115 (1997).
- [4] Begum Z et al.: Effect of ceramic thickness and luting agent shade on the color masking ability of laminate veneers. *Journal of Indian Prosthodontic Society* 14 (1), 46–50 (2014).
- [5] Bindl A, Lüthy H, Mörmann WH: Strength and fracture pattern of monolithic CAD/CAM-generated posterior crowns. *Dental Materials* 22 (1), 29–36 (2006).
- [6] Calgaro PAM et al.: Post-cementation colorimetric evaluation of the interaction between the thickness of ceramic veneers and the shade of resin cement. *American Journal of Dentistry* 27 (4), 191–194 (2014).
- [7] Chang J et al.: The optical effect of composite luting cement on all ceramic crowns. *Journal of Dentistry* 37 (12), 937–943 (2009).
- [8] Chen X-D et al.: The influence of resin cements on the final color of ceramic veneers. *Journal of Prosthodontic Research* 59 (3), 172–177 (2015).
- [9] de Azevedo Cubas GB et al.: The effect of luting agents and ceramic thickness on the color variation of different ceramics against a chromatic background. *European Journal of Dentistry* 5 (3), 245 (2011).
- [10] De Goes M, Murillo-Gómez F: Long-term bond strength of glass-ceramic treated with acid ceramic primer. *Dental Materials* 33, e24 (2017).
- [11] Dede DÖ, Ceylan G, Yilmaz B: Effect of brand and shade of resin cements on the final color of lithium disilicate ceramic. *Journal of Prosthetic Dentistry* 117 (4), 539–544 (2017).
- [12] Edelhoff D: Vollkeramische Restaurationen. *Der Freie Zahnarzt* 61 (10), 84–93 (2017).
- [13] Ferracane JL, Stansbury JW, Burke FJT: Self-adhesive resin cements – chemistry, properties and clinical considerations. *Journal of Oral Rehabilitation* 38 (4), 295–314 (2011).
- [14] Harada K et al.: A comparative evaluation of the translucency of zirconias and lithium disilicate for monolithic restorations. *Journal of Prosthetic Dentistry* 116 (2), 257–263 (2016).
- [15] Höland W et al.: A comparison of the microstructure and properties of the IPS Empress® 2 and the IPS Empress® glass-ceramics. *Journal of Biomedical Materials Research Part A* 53 (4), 297–303 (2000).
- [16] Jordan AR, Micheelis W: Fünfte Deutsche Mundgesundheitsstudie-(DMS V). Köln: Deutscher Zahnärzte Verlag DÄV (2016).
- [17] Kampouropoulos D et al.: Colour matching of composite resin cements with their corresponding try-in pastes. *Eur J Prosthodont Restor Dent* 22 (2), 84–88 (2014).
- [18] Klosa K et al.: The effect of storage conditions, contamination modes and cleaning procedures on the resin bond strength to lithium disilicate ceramic. *Journal of Adhesive Dentistry* 11 (2), (2009), 127-135.

- [19] Liebermann A, Kieschnick A, Stawarczyk B: Selbstadhäsive Befestigungskomposite – ein aktueller Überblick. *Quintessenz Zahntech* 43 (11), 1494–1502 (2017).
- [20] Lohbauer U, Zorzin JI: Silikatkeramiken und adhäsive Befestigungskonzepte. *Quintessenz Zahntech* 44 (11), 1474–1491 (2017).
- [21] Micheelis W: Vierte Deutsche Mundgesundheitsstudie (DMS IV): neue Ergebnisse zu oralen Erkrankungsprävalenzen, Risikogruppen und zum zahnärztlichen Versorgungsgrad in Deutschland 2005. Köln: Deutscher Zahnärzte Verlag DÄV (2006).
- [22] Mourouzis P: Color match of luting composites and try-in pastes: the impact on the final color of CAD/CAM lithium disilicate restorations. *Int J Esthet Dent* (2018); 13 (1): 98-109.
- [23] Özcan M, Vallittu PK: Effect of surface conditioning methods on the bond strength of luting cement to ceramics. *Dental Materials* 19 (8), 725–731 (2003).
- [24] Prado M et al.: Ceramic surface treatment with a single-component primer: resin adhesion to glass ceramics. *Journal of Adhesive Dentistry* 20 (2), 99-105 (2018).
- [25] Ramakrishnaiah R et al.: The effect of hydrofluoric acid etching duration on the surface micromorphology, roughness, and wettability of dental ceramics. *International Journal of Molecular Sciences* 17 (6), 822 (2016).
- [26] Roof B et al.: *Vollkeramische Kronen und Brücken (S3)*. 2016.
- [27] Shimada Y, Yamaguchi S, Tagami J: Micro-shear bond strength of dual-cured resin cement to glass ceramics. *Dental Materials* 18 (5), 380–388 (2002).
- [28] Stawarczyk B et al.: Influence of cementation and cement type on the fracture load testing methodology of anterior crowns made of different materials. *Dental Materials Journal* 32 (6), 888–895 (2013).
- [29] Stawarczyk B, Rosentritt M: Glossar der Verbundmechanismen und Oberflächenvorbehandlung. *Quintessenz Zahntech* 43 (11), 1405–1407 (2017).
- [30] Stawarczyk B, Wimmer T: Die Teilkrone – materialwissenschaftliche Aspekte. *teamwork J CONT DENT EDUC* 2, 128–137 (2016).
- [31] Trushkowsky RD: Ceramic inlay fabrication with three-dimensional copy milling technology – Celay. *Compendium of Continuing Education in Dentistry (Jamesburg, NJ: 1995)* 19 (11), 1077–1080 (1998).
- [32] Turgut S, Bagis B: Effect of resin cement and ceramic thickness on final color of laminate veneers: an in vitro study. *Journal of Prosthetic Dentistry* 109 (3), 179–186 (2013).
- [33] Vichi A, Ferrari M, Davidson CL: Influence of ceramic and cement thickness on the masking of various types of opaque posts. *Journal of Prosthetic Dentistry* 83 (4), 412–417 (2000).
- [34] Villarroel M et al.: Direct esthetic restorations based on translucency and opacity of composite resins. *Journal of Esthetic and Restorative Dentistry* 23 (2), 73–87 (2011).
- [35] Volpato CAM et al.: Optical influence of the type of illuminant, substrates and thickness of ceramic materials. *Dental Materials* 25 (1), 87–93 (2009).
- [36] Xu B et al.: Agreement of try-in pastes and the corresponding luting composites on the final color of ceramic veneers. *Journal of Prosthodontics* 23 (4), 308–312 (2014).
- [37] Yoshihara K et al.: Effectiveness and stability of silane coupling agent incorporated in ‘universal’ adhesives. *Dental Materials* 32 (10), 1218–1225 (2016).