



DAFTAR PUSTAKA

- Al Hamad, K. Q., Al Quran, F. A., AlJalam, S. A., dan Baba, N. Z., (2019) Comparison of the Accuracy of Fit of Metal, Zirconia, and Lithium Disilicate Crowns Made from Different Manufacturing Techniques, *J Prosthodont*,28(5): 497–503.
- Albornoz, A. C. de, Vignoletti, F., Ferrantino, L., Cárdenas, E., Sanctis, M. de, dan Sanz, M., (2014) A Randomized Trial on the Aesthetic Outcomes of Implant-supported Restorations with Zirconia or Titanium Abutments, *J Clin Periodontol*,41(12): 1161–1169.
- Alghazzawi, T. F., Lemons, J., Liu, P. R., Essig, M. E., dan Janowski, G. M., (2012) The Failure Load of CAD/CAM Generated Zirconia and Glass-Ceramic Laminate Veneers with Different Preparation Designs, *J Prosthet Dent*,108(6): 386–393.
- Ali Saghiri, M., Shabani, A., Asatourian, A., dan Sheibani, N., (2017) Storage Medium Affects the Surface Porosity of Dental Cements, *J Clin Diagn Res*,11(8): ZC116–ZC119.
- Ananth, H., Kundapur, V., Mohammed, H. S., Anand, M., Amarnath, G. S., dan Mankar, S., (2015) A Review on Biomaterials in Dental Implantology, *Int J Biomed Sci*,11(3): 113–120.
- Anantharaju, A., Joseph, B., Kusum, C. K., dan Nooji, D., (2013) Connectors and Attachments in Oral Rehabilitation, *J NTR Univ Health Sci*,2(3): 222.
- Asharaf, S., Suma, A., Deivanai, M., dan Mani, R., (2014) Zirconia: Properties and Application — a Review, *Pakistan Oral & Dental Journal*,34(1): 178–183.
- Babu, P. J., Alla, R. K., Alluri, V. R., Datla, S. R., dan Konakanchi, A., (2015) Dental Ceramics: Part I – An Overview of Composition, Structure and Properties, *American Journal of Materials Engineering and Technology*,3(1): 13–18.
- Bajraktarova-Valjakova, E., Korunoska-Stevkovska, V., Kapusevska, B., Gigovski, N., Bajraktarova-Misevska, C., dan Grozdanov, A., (2018) Contemporary Dental Ceramic Materials, A Review: Chemical Composition, Physical and Mechanical Properties, Indications for Use, *Open Access Maced J Med Sci*,6(9): 1742–1755.
- Bona, A. Della, Pecho, O. E., dan Alessandretti, R., (2015) Zirconia as a Dental Biomaterial, *Materials*,8(8): 4978–4991.
- Cattani-Lorente, M., Scherrer, S. S., Ammann, P., Jobin, M., dan Wiskott, H. W. A., (2011) Low Temperature Degradation of a Y-TZP Dental Ceramic, *Acta Biomaterialia*,7(2): 858–865.
- Christensen, R. P., dan Ploeger, B. J., (2010) A Clinical Comparison of Zirconia,



- Metal and Alumina Fixed-Prosthesis Frameworks Veneered With Layered or Pressed Ceramic: A Three-year Report, *JADA*,141(11): 1317–1329.
- Cotes, C., Arata, A., Melo, R. M., Bottino, M. A., Machado, J. P. B., dan Souza, R. O. A., (2014) Effects of Aging Procedures on the Topographic Surface, Structural Stability, and Mechanical Strength of a ZrO₂-based Dental Ceramic, *Dental Materials*,30(12): e396–e404.
- Daou, E. E., (2014) The Zirconia Ceramic: Strengths and Weaknesses, *The Open Dentistry Journal*,8(1): 33–42.
- Digholkar, S., Madhav, V. N. V., dan Palaskar, J., (2016) Evaluation of the Flexural Strength and Microhardness of Provisional Crown and Bridge Materials Fabricated by Different Methods, *Journal of Indian Prosthodontic Society*,16(4): 328–334.
- Ekfeldt, A., Fürst, B., dan Carlsson, G. E., (2016) Zirconia Abutments for Single-Tooth Implant Restorations: a 10- to 11-year Follow-up Study, *Clin. Oral Impl. Res.*,0: 1–6.
- Focșăneanu, S. C., Vizureanu, P., Sandu, A. V., dan Bălțatu, M. S., (2017) Zirconia Dental Implant Materials, *Materials Science Forum*,907: 99–103.
- Gautam, C., Joyner, J., Gautam, A., Rao, J., dan Vajtai, R., (2016) Zirconia Based Dental Ceramics: Structure, Mechanical Properties, Biocompatibility and Applications, *Dalton Trans.*,45(48): 19194–19215.
- Geiballa, G. H., Abubakr, N. H., dan Ibrahim, Y. E., (2016) Patients' Satisfaction and Maintenance of Fixed Partial Denture, *European Journal of Dentistry*,10(2): 250–253.
- Guess, P. C., Att, W., dan Strub, J. R., (2012) Zirconia in Fixed Implant Prosthodontics, *Clin Implant Dent Relat Res*,14(5): 633–645.
- Håff, A., Löf, H., Gunne, J., dan Sjögren, G., (2015) A Retrospective Evaluation of Zirconia-Fixed Partial Dentures in General Practices: An Up to 13-year Study, *Dental Materials*,31(2): 162–170.
- Hanawa, T., (2020) Zirconia Versus Titanium in Dentistry: A Review, *Dent Mater J*,39(1): 24–36.
- Hassan, T., dan Aurangjeb, A. . M., (2014) Comparison of Fiber-reinforced Composite Crowns and Metal Ceramic Crowns According to Attrition of Opposing Teeth, *Updat Dent Coll J*,4(1): 21–26.
- Ho, B. J., Tsoi, J. K. H., Liu, D., Lung, C. Y. K., Wong, H. M., dan Matinlinna, J. P., (2015) Effects of Sandblasting Distance and Angles on Resin Cement Bonding to Zirconia and Titanium, *International Journal of Adhesion and Adhesives*,62: 25–31.
- Hosseini, M., Worsaae, N., Schiødt, M., dan Gotfredsen, K., (2013) A 3-year Prospective Study of Implant-supported, Single-tooth Restorations of All-



ceramic and Metal-ceramic Materials in Patients with Tooth Agenesis, *Clin. Oral Impl. Res.*,24(10): 1078–1087.

Jafari, S., Alihemmati, M., Ghomi, A., Shayegh, S., dan Kargar, K., (2021) Stress Distribution of Esthetic posts in the Restored Maxillary Central Incisor: Three-Dimensional Finite-Element Analysis, *Dental Research Journal*,18(1): 1–7.

Kazmi, S. M. R., Iqbal, Z., Muneer, M. U., Riaz, S., dan Zafar, M. S., (2018) Different Pontic Design for Porcelain Fused to Metal Fixed Dental Prosthesis: Contemporary Guidelines and Practice by General Dental Practitioners, *European Journal of Dentistry*,12(3): 375–379.

Kim, Y., Park, J., Park, S., Oh, S., Jung, Y., Kim, J., Yoo, S., Kim, S., (2014) Economic Evaluation of Single-Tooth Replacement: Dental Implant Versus Fixed Partial Denture, *The International Journal of Oral & Maxillofacial Implants*,29(3): 600–607.

Kocjan, A., Cotič, J., Kosmač, T., dan Jevnikar, P., (2021) In Vivo Aging of Zirconia Dental Ceramics – Part I: Biomedical Grade 3Y-TZP, *Dental Materials*,37(3): 443–453.

Kohorst, P., Borchers, L., Strempel, J., Stiesch, M., Hassel, T., Bach, F. W., dan Hübsch, C., (2012) Low-temperature Degradation of Different Zirconia Ceramics for Dental Applications, *Acta Biomaterialia*,8(3): 1213–1220.

Kumar, C. G., Shruthi, D., Raj, K. S., Kalpana, D., dan Harish, G., (2014) Zirconia: Substitute for Metal Ceramics, *Journal of Orofacial Research*,4(4): 209–212.

Kumari, T. J., Vinayagavel, K., Sabarigirinathan, C., Francilin, F., Deepika, D., Saravanapriya, M., Sukumaran, A., dan Periyasamy, S., (2018) Review Article on Connectors in Fixed Partial Dentures, *Journal of Dental and Medical Sciences*,17(11): 60–64.

Laoh, M. H., Siagian, K. V., dan Ticoalu, S. H. R., (2016) Status Gingiva pada Pasien Pengguna Gigi Tiruan Cekat di RSGM PSPDG Fakultas Kedokteran Universitas Sam Ratulangi Manado, *e-GIGI*,4(2): 196–201.

Lee, D. B. N., Roberts, M., Bluchel, C. G., dan Odell, R. A., (2010) Zirconium: Biomedical and Nephrological Applications, *ASAIO Journal*,56(6): 550–556.

Liu, D., Matinlinna, J. P., dan Pow, E. H. N., (2012) Insights into Porcelain to Zirconia Bonding, *J Adhesion Sci Technol*,26(8–9): 1249–1265.

Liu, H., Zhao, W., Ji, Y., Cui, J., Chu, Y., dan Rao, P., (2017) Determination of Fracture Toughness of Zirconia Ceramics with Different Yttria Concentrations by SEVNB Method, *Ceramics International*,43(13): 10572–10575.

Lümkemann, N., Pfefferle, R., Jerman, E., Sener, B., dan Stawarczyk, B., (2020) Translucency, Flexural Strength, Fracture Toughness, Fracture Load of 3-Unit FDPs, Martens Hardness Parameter and Grain Size of 3Y-TZP Materials, *Dental Materials*,36(7): 838–845.



- Madfa, A. A., Al-Sanabani, F. A., Al-Qudami, N. H., Al-Sanabani, J. S., dan Amran, A. G., (2014) Use of Zirconia in Dentistry: An Overview, *The Open Biomaterials Journal*,5: 1–9.
- Marghalani, T. Y., Hamed, M. T., Awad, M. A., Naguib, G. H., dan Elragi, A. F., (2012) Three-Dimensional Finite Element Analysis of Custom-Made Ceramic Dowel Made Using CAD/CAM Technology, *J Prosthodont*,21(6): 440–450.
- McLaren, E. A., dan Giordano, R., (2010) Ceramics Overview: Classification by Microstructure and Processing Methods, *International Dentistry - African Edition*,4(3): 18–30.
- Monaco, C., Cardelli, P., Scotti, R., dan Valandro, L. F., (2011) Pilot Evaluation of Four Experimental Conditioning Treatments to Improve the Bond Strength between Resin Cement and Y-TZP Ceramic, *J Prosthodont*,20(2): 97–100.
- Örtorp, A., Kihl, M. L., dan Carlsson, G. E., (2012) A 5-Year Retrospective Study of Survival of Zirconia Single Crowns Fitted in a Private Clinical Setting, *J Dent*,40(6): 527–530.
- Osman, R. B., Swain, M. V., Atieh, M., Ma, S., dan Duncan, W., (2014) Ceramic implants (Y-TZP): Are They a Viable Alternative to Titanium Implants for the Support of Overdentures? A Randomized Clinical Trial, *Clin. Oral Impl. Res.*,25(12): 1366–1377.
- Özkurt, Z., dan Kazazoğlu, E., (2010) Clinical Success of Zirconia in Dental Applications, *J Prosthodont*,19(1): 64–68.
- Park, J.-H., Bang, I.-H., dan Lee, S.-J., (2019) Phase Transition and Thermal Expansion Behavior of Zirconia Setter Fabricated from Fused CaO Stabilized Zirconia, *Journal of the Korean Ceramic Society*,56(2): 184–190.
- Pekkan, G., (2016) Radiopacity of Dental Materials: An Overview, *Avicenna Journal of Dental Research*,8(2): 1–6.
- Perea, L., Matinlinna, J. P., Tolvanen, M., Lassila, L. V, dan Vallittu, P. K., (2014) Fiber-reinforced Composite Fixed Dental Prostheses with Various Pontics, *The Journal of Adhesive Dentistry*,16(2): 161–168.
- Ramesh, T. R., Gangaiah, M., Harish, P. V., Krishnakumar, U., dan Nandakishore, B., (2012) Zirconia Ceramics as a Dental Biomaterial, *Trends Biomater. Artif. Organs*,26(3): 154–160.
- Rodriguez, A. E., Monzavi, M., Yokoyama, C. L., dan Nowzari, H., (2018) Zirconia Dental Implants: A Clinical and Radiographic Evaluation, *J Esthet and Restor Dent.*,30(6): 1–7.
- Sailer, I., Makarov, N. A., Thoma, D. S., Zwahlen, M., dan Pjetursson, B. E., (2015) All-ceramic or Metal-ceramic Tooth-supported Fixed Dental Prostheses (FDPs)? A Systematic Review of the Survival and Complication Rates. Part I: Single crowns (SCs), *Dental Materials*,31(6): 603–623.



- Saridag, S., Tak, O., dan Alniacik, G., (2013) Basic Properties and Types of Zirconia: An Overview, *WJS*,2(3): 40.
- Sekar, M., Sujatha, V., Babu, R., dan Mohan, A. G., (2014) Zirconia as a Biomaterial, *IJRD*,3(1): 1–7.
- Shen, J. Z., dan Kosmac, T., (2014) *Advanced Ceramics for Dentistry*. Edisi 1. Waltham:Butterworth-Heinemann.
- Shenoy, A., dan Shenoy, N., (2010) Dental ceramics: An update, *J Conserv Dent*,13(4): 195.
- Silva, L. H., Lima, E., Miranda, R. B. de P., Favero, S. S., Lohbauer, U., dan Cesar, P. F., (2017) Dental Ceramics: A Review of New Materials and Processing Methods, *Braz. Oral Res.*,31(suppl): 133–146.
- Sivaraman, K., Chopra, A., Narayan, A. I., dan Balakrishnan, D., (2018) Is Zirconia a Viable Alternative to Titanium for Oral Implant? A Critical Review, *J Prosthodont Res*,62(2): 121–133.
- Solá-ruiz, M. F., Baixauli-lópez, M., Roig-vanaclocha, A., Amengual-lorenzo, J., dan Agustín-panadero, R., (2021) Prospective study of monolithic zirconia crowns: clinical behavior and survival rate at a 5-year follow-up, *J Prosthodont Res*,65(3): 284–290.
- Sorrentino, R., de Simone, G., Tetè, S., Russo, S., dan Zarone, F., (2012) Five-year Prospective Clinical Study of Posterior Three-unit Zirconia-based Fixed Dental Prostheses, *Clin Oral Invest*,16(3): 977–985.
- Souza, R., Barbosa, F., Araújo, G., Miyashita, E., Bottino, M. A., Melo, R., dan Zhang, Y., (2018) Ultrathin Monolithic Zirconia Veneers: Reality or Future? Report of a Clinical Case and One-year Follow-up, *Oper Dent*,43(1): 3–11.
- Sriamporn, T., Thamrongananskul, N., Busabok, C., Poolthong, S., Uo, M., dan Tagami, J., (2014) Dental zirconia can be etched by hydrofluoric acid, *Dent Mater J*,33(1): 79–85.
- Suarez, M. J., Perez, C., Pelaez, J., Lopez-Suarez, C., dan Gonzalo, E., (2019) A Randomized Clinical Trial Comparing Zirconia and Metal-Ceramic Three-Unit Posterior Fixed Partial Dentures: A 5-Year Follow-Up, *J Prosthodont*,28(7): 750–756.
- Tanner, J., Niemi, H., Ojala, E., Tolvanen, M., Närhi, T., dan Hjerppe, J., (2018) Zirconia Single Crowns and Multiple-unit FDPs—An Up to 8 -year Retrospective Clinical Study, *J Dent*,79: 96–101.
- Thomas, S., Balakrishnan, P., dan Sreekala, M.S. (eds.) (2018) Fundamental Biomaterials: Ceramics. Cambridge: Woodhead Publishing.
- Thompson, J. Y., Stoner, B. R., Piascik, J. R., dan Smith, R., (2011) Adhesion/Cementation to Zirconia and Other Non-silicate Ceramics: Where are We Now?, *Dental Materials*,27(1): 71–82.



- Traini, T., Sorrentino, R., Gherlone, E., Perfetti, F., Bollero, P., dan Zarone, F., (2015) Fracture Strength of Zirconia and Alumina Ceramic Crowns Supported by Implants, *Journal of Oral Implantology*,41: 352–359.
- Triwatana, P., Nagaviroj, N., dan Tulapornchai, C., (2012) Clinical Performance and Failures of Zirconia-based Fixed Partial Dentures: A Review Literature, *J Adv Prosthodont*,4(2): 76–83.
- Volpato, C. Â. M., Garbelotto, L. G. D., Fredel, M. C., dan Federic, B., (2011) Application of Zirconia in Dentistry: Biological, Mechanical and Optical Considerations, *Advances in Ceramics*,397–420.
- Wahjuni, S., dan Mandanie, S. A., (2017) Fabrication of Combined Prosthesis with Castable Extracoronal Attachments (Laboratory Procedure), *Journal Of Vocational Health Studies*,1(2): 75–81.
- Wang, F., Takahashi, H., dan Iwasaki, N., (2013) Translucency of Dental Ceramics with Different Thicknesses, *J Prosthet Dent*,110(1): 14–20.
- Wang, S., Xie, H., Lin, Y., Poeppelmeier, K. R., Li, T., Winans, R. E., Cui, Y. Ribeiro, F. H., Canlas, C. P., Elam, J. W., Zhang, H., dan Marshall, C. L., (2016) High Thermal Stability of La₂O₃- and CeO₂-Stabilized Tetragonal ZrO₂, *Inorganic Chemistry*,55(5): 2413–2420.
- Xu, Y., Han, J., Lin, H., dan An, L., (2015) Comparative Study of Flexural Strength Test Methods on CAD/CAM Y-TZP Dental Ceramics, *Regenerative Biomaterials*,2(4): 239–244.
- Yang, K. H., Kim, S., dan Jeong, J. Do, (2013) False femoral neck fracture detected during shaft nailing: A mach band effect, *Yonsei Med J*,54(3): 803–805.
- Yi, Y. A., Ahn, J. S., Park, Y. J., Jun, S. H., Lee, I. B., Cho, B. H., Son, H.H. dan Seo, D. G., (2015) The Effect of Sandblasting and Different Primers on Shear Bond Strength Between Yttria-tetragonal Zirconia Polycrystal Ceramic and a Self-adhesive Resin Cement, *Oper Dent*,40(1): 63–71.
- Zarone, F., Russo, S., dan Sorrentino, R., (2011) From Porcelain-fused-to-metal to Zirconia: Clinical and Experimental Considerations, *Dental Materials*,27(1): 83–96.
- Zhang, Y.-R., Du, W., Zhou, X.-D., dan Yu, H.-Y., (2014) Review of Research on the Mechanical Properties of the Human Tooth, *International Journal of Oral Science*,6(2): 61–69.
- Zhang, Y., dan Lawn, B. R., (2018) Novel Zirconia Materials in Dentistry, *J Dent Res*,97(2): 140–147.
- Zhang, Y., dan Lawn, B. R., (2019) Evaluating Dental Zirconia, *Dental Materials*,35(1): 15–23.