

DAFTAR PUSTAKA

- Abdulmajeed, A.A. Närhi, T.O., Vallittuu, P.K., dan Lassila, L.V., (2011) The effect of high fiber fraction on some mechanical properties of unidirectional glass fiber-reinforced composite. *Dental Materials*. 27(4): 313-321.
- Albar, N.H.M. dan Khayat, W.F., (2022) Evaluation of Fracture Strength of Fiber-Reinforced Direct Composite Resin Restorations: An In Vitro Study. *Polymers*. 14(20).
- Alshetiwi D.S.D., Muttlib, N.A.A., El-Damanhoury, H.M., Alawi, R., Rahman, N.A., Elsahn, N.A., Karobari, M.I., (2024) Evaluation of mechanical properties of anatomically customized fiber posts using E-glass short fiber-reinforced composite to restore weakened endodontically treated premolars. *BMC Oral Health*, 24(1): 1-13.
- AlTowayan, S.A., (2023) Proximal Contour of Class II Composite Restoration: A Literature Review. *J Int Dent Med Res*. 16(2): 865-872.
- Anjaneyulu, K. dan Tasleem A.S., (2022) Incidence of Class I vs. Class II dental caries in general population-A retrospective study. *J Clin Dentistry Oral Health*. 6(5).
- Bahillo, J., Bortolotto, T., Roig, M., dan Krejci, I., (2014) Bulk filling of Class II cavities with a dual-cure composite: Effect of curing mode and enamel etching on marginal adaptation. *J Clin Exp Dent*. 6(5): e502-e508.
- Bijelic-Donova, J., Garoushi, S., Lassila, L.V., Rocca, G.T., dan Vallittu, P.K., (2022) Crack propagation and toughening mechanism of bilayered short-fiber reinforced resin composite structure -Evaluation up to six months storage in water. *Dent Mater J*. 41(4): 580-588.
- Blumer, L., Schmidli, F., Weiger, R., dan Fischer, J., (2015) A systematic approach to standardize artificial aging of resin composite cements. *Dental Materials*. 31(7): 855-863.
- Boonrawd, N., Rungsiyakull, P., Rungsiyakull, C., dan Louwakul, P., (2022) Effects of composite resin core level and periodontal pocket depth on crack propagation in endodontically treated teeth: An extended finite element method study. *J Prosthet Dent*. 128(2): 195.e1-195.e7.
- Asenahabi, A.M. dan Ikoha, P.A., (2023) Scientific Research Sample Size Determination. *The International Journal of Science & Technoledge*. 11(7): 8-12.
- Chowdhury, D., Guhai, C., dan Desai, P., (2018) Comparative Evaluation of Fracture Resistance of Dental Amalgam, Z350 Composite Resin and Cention-N Restoration In Class II Cavity. *IOSR-JDMS*. 17(4): 52-56.

- Delaviz, Y., Finer, Y., dan Santerre, J.P., (2014) Biodegradation of resin composites and adhesives by oral bacteria and saliva: A rationale for new material designs that consider the clinical environment and treatment challenges. *Dental Materials*. 30(1): 16-32.
- El-Galil, A.A., El Raouf, E.A., dan Atef, A., (2025) 'In Vitro Study Comparing Fracture Resistance of Two Hybrid Ceramic Endocrown Materials with or without Short Fiber Reinforced Composite Base. *Ain Shams Dental Journal*. 37 (1): 40-50.
- Eliasson, S.T. dan Dahl, J.E. (2020) Effect of thermal cycling on temperature changes and bond strength in different test specimens. *Biomaterial Investigations in Dentistry*. 7(1):16–24.
- Fani, M., Farmani, S., dan Rafat, B., (2015) Fracture Toughness of Resin Composites under Different Modes and Media: Review of Articles. *Dental Biomaterials*. 2(3): 73-82.
- Galvão, M.R., Caldas, S.G.F.R., Bagnato, V.S., Rastelli, A.N.de S., dan de Andrade, M.F., (2013) Evaluation of degree of conversion and hardness of dental composites photo-activated with different light guide tips. *European Journal of Dentistry*. 7(1): 86-93.
- Garg, N. dan Garg, A. (2011) *Textbook of Preclinical Conservative Dentistry*. 1st ed. New Delhi: Jaypee Brothers Medical Publishers. pp. 119, 140, 213.
- Garg, N. dan Garg, A. (2017) *Textbook of Preclinical Conservative Dentistry*. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd. pp. 115, 116, 179.
- Garoushi, S., Vallittu, P.K., Watts, D.C., dan Lassila, L.V.J., (2008) Polymerization shrinkage of experimental short glass fiber-reinforced composite with semi-inter penetrating polymer network matrix. *Dental Materials*. 24(2): 211–215.
- Garoushi, S., Mangoush E., Vallittu, P., dan Lassila, L., (2014) Short Fiber Reinforced Composite: a New Alternative for Direct Onlay Restorations. *The Open Dentistry Journal*. 7(1): 181–185.
- Garoushi, S., Säilynoja, E., Keulemans, Vallittu, P.K., dan Lassila, L., (2024) A comparative evaluation of commercially available short fiber-reinforced composites. *BMC Oral Health*, 24(1).
- Goteti, S.V., Anwarullah, A., Mandava, J., Kantheti, S., Pulidindi, H., dan Chandolu, V., (2024) Evaluation of microtensile bond strength and marginal

adaptation of fiber-reinforced composites. *Journal of Conservative Dentistry and Endodontics*. 27(11):1120–1125.

Guo, X., Yu, Y., Gao, S., Zhang, Z., dan Zao, H., (2022) Biodegradation of Dental Resin-Based Composite—A Potential Factor Affecting the Bonding Effect: A Narrative Review. *Biomedicines*. 10(9).

Hassanpour, B. dan Karbhari, V.M., (2024) Characteristics and Models of Moisture Uptake in Fiber-Reinforced Composites: A Topical Review. *Polymers*. 16(2265).

Hofsteenge, J.W., van den Heijkant, I.A., Cune, M.S., Bazos, P.K., van der Made, S.A.M., Kerdijk, W., Gresnigt, M.M.M., (2021) Influence of Preparation Design and Restorative Material on Fatigue and Fracture Strength of Restored Maxillary Premolars. *Operative dentistry*. 46(2): E68–E79.

Kamath, U. dan Salam, A., (2016) Fracture resistance of maxillary premolars with mod cavities restored with Zirconomer: An in vitro comparative study. *International Journal of Applied Dental Sciences*. 2(2): 77–80.

Kim, H.Y., (2017) Statistical notes for clinical researchers: Chi-squared test and Fisher's exat test. *Restorative Dentistry &Endodontics*. 42(2): 152-155.

Kim, S.Y., Bae, H.J., Lee, H.H., Lee, J.H., Kim, Y.J., Choi, Y.S., Lee, J.H., dan Shin, S.Y., (2023) The Effects of Thermocycling on the Physical Properties and Biocompatibilities of Various CAD/CAM Restorative Materials. *Pharmaceutics*. 15(8).

Kurshid, Z., Najeeb, S., Zafar, M.S., dan Sefat, F (2019) *Advanced Dental Biomaterials*. 1st ed. Duxford: Woodhead Publishing. pp.140, 142, 306-312.

Lassila, L., Säilynoja, E., Prinssi, R., Vallittu, P.K., dan Garoushi, S., (2020) Fracture behavior of Bi-structure fiber-reinforced composite restorations. *Journal of the Mechanical Behavior of Biomedical Materials*, 101 (2020).

Malarvizhi, D., Karthick, A., Mary. N.S.G.P., Venkatesh, A., (2019) Shrinkage in composites: An enigma. *Journal of International Oral Health*. 11(5): 244–248.

Mangoush, E., Garoushi, S., Lassila, L., Vallittu, P.K., Säilynoja, E., (2021) Effect of fiber reinforcement type on the performance of large posterior restorations: A review of in vitro studies. *Polymers*. 13(21): 1–12.

McHugh, M.L., (2013) The Chi-Square test of independence. *Biochemia Medica*. 23(2): 143-149.

- Mohammadipour, H.S., Farajzadeh, M., Toutouni, H., Gazerani, A., dan Sekandari S., (2025) Fracture Resistance of Fiber-Reinforced vs. Conventional Resin Composite Restorations in Structurally Compromised Molars: An In Vitro Study. *International Journal of Dentistry*. 2025(1).
- Nica, I., Nedeff, F., Nedeff, V., Popa, C., Toma, S.L., Agop, M., dan Vasincu, D., (2023) The Cracking Behavior of Two Dental Composite Materials Validated through Multifractal Analyzes. *Int J Mol Sci*. 24(7): 6493.
- de Oliveira Lino, L.F., Machado, C.M., de Paula, V.G., Vidotti, H.A., Coelho, P.G., Jalkh, E.G.B., Pegoraro, T.A., dan Bonfante, E.A., (2018) Effect of aging and testing method on bond strength of CAD/CAM fiber-reinforced composite to dentin. *Dental Materials*. 34(11).1690–1701.
- Opdam, N.J.M., van de Sande, F.H., Bronkhorst, E., Cenci, M.S., Bottenberg, P., Pallesen, U., Gaengler, P., Lindberg, A., Huysmans, M.C.D.N.J.M., dan van Dijken, J.W., (2014) Longevity of posterior composite restorations: A systematic review and meta-analysis. *J Dent Res*. 93(10): 943–949.
- Palesik, B., Šileikytė, K., Griškevičius, J., Stonkus, R., Šidlauskas, dan A., Lopatienė, K., (2022) Impact of temperature changes to the adhesion strength of molar tubes: an in vitro study. *BMC Oral Health*. 22(1).
- Panyawisitkul, P. dan Sriswasdi, S., (2024) Microleakage of Class II Restoration Using Short Fiber-Reinforced Flowable Resin Composite with a Universal Adhesive. *J DENT ASSOC THAI*. 74(3): 146-155.
- Pierce, A.L., Kosaraju, A., Gedge, J.L., dan Vandewalle, K.S., (2025) Fracture Resistance and Failure Modes of Cuspal coverage Restorations Using Fiber-reinforced and Non-fiber-reinforced Materials: An In Vitro Study. *The Journal of Contemporary Dental Practice*. 26(1): 4–9.
- Poggio, C., Chiesa, M., Scribante, A., Mekler, J., dan Colombo, M., (2013) Microleakage in Class II composite restorations with margins below the CEJ: In vitro evaluation of different restorative techniques. *Med Oral Patol Oral Cir Bucal*. 18(5): 793–798.
- Rinastiti, M., Özcan, M., Siswomihardjo, W., dan Busscher, H.J., (2011) Effects of surface conditioning on repair bond strengths of non-aged and aged microhybrid, nanohybrid, and nanofilled composite resins. *Clin Oral Invest*. 15(5): 625–633.

- Ritter, A. V, Boushel, L.W. dan Walter, R., (2019) *Sturdevant's Art and Science of Operative Dentistry*. 7th ed. Missouri: Elsevier Inc. pp. 49, 50, 120, 1245, 125, 127, 131, 230, 233, 234.
- Sabbagh, J. dan McConnell, R., (2023) *Bulk Fill Resin Composite in Dentistry: A Clinical Guide*. 1st ed. Cham: Springer. pp. 110-120.
- Sakaguhi, R., Ferracane, J., dan Powers, J., (2019) *Craig's Restorative Dental Materials*. 14th ed. Missouri: Elsevier Inc. pp. 9-15, 19, 38, 99.
- Salama, R.M., Hamama, H.H., dan Mahmoud, S.H., (2025) Fracture Resistance of Maxillary Premolars With Class II MOD Cavities Restored With Direct and Indirect Resin Composite Restorative Systems *J Esthet Restor Dent*. 37(7): 1791-1801.
- Santos, M.J.M.C., Rêgo, H.M.C., Siddique, I., dan Jessani, A., (2023) Five-Year Clinical Performance of Complex Class II Resin Composite and Amalgam Restorations—A Retrospective Study. *Dentistry Journal*. 11(4).
- Sari, C., Bala, O., Akgul, S., dan Alp, C.K., (2025) Effect of using different materials and restorative techniques on cuspal deflection and microleakage in endodontically treated teeth. *BMC Oral Health*, 25(1).
- Sarmiento, G., Ayala, G., Watanabe, R., Salcedo-Mocanda, D., Alvítez-Temoche, D., Mayta-Tovalino, F., (2021) Microleakage in premolar class i restorations between nanohybrid and microhybrid composites: A comparative in vitro study. *Journal of International Oral Health*. 13(3): 288–292.
- Scheid, R.C. dan Weiss, G., (2012) *Woelfel's Dental Anatomy*. 8th ed. Philadelphia: Lippincott Williams & Wilkins. pp. 11, 31, 295, 307, 308.
- Scheid, R.C. dan Weiss, G., (2017) *Woelfel's Dental Anatomy*. 9th ed. Philadelphia: Wolter's Kluwer. pp. 316-319.
- Scribante, A., Vallittu, P.K., dan Özcan, M., (2018) Fiber-reinforced composites for dental applications. *BioMed Research International*. 2018(4734986): 10–11.
- Shahin, S.Y., AlQahtani, N., Abushowmi, T.H., Siddiqui, I.A., Akhtar, S., Nassar, E.A., dan Gad, M.M., (2024) The effect of surface treatment and thermal aging on the bonding of clear aligner attachments to provisional resin-based material: shear bond strength analysis. *Front Oral Health*. 5(1449833): 1–9.

- Shen, C., Rawls, H.R., dan Esquivel-Upshaw, J.F., (2022) *Phillip's Science of Dental Materials*. 13th ed. Missouri: Elsevier Inc. pp. 88-106.
- Singh, P. dan Sehgal, P., (2021) G.V Black dental caries classification and preparation technique using optimal CNN-LSTM classifier. *Multimedia Tools and Applications*. 80(4): 5255–5272.
- Sitoresmi, M., Dwiandhany, Suci, W., dan Jubhari, E.H., (2024) Prevalence of permanent first molar caries at Dental Hospital of Hasanuddin University. *Makassar Dental Journal*. 13(3): 365–367.
- Soares, P.V., Milito, G. de A., Pereira, F.A., Zeola, L.F., Naver, M.F.de L., Machado, A.C., Souza, P.G., dan Reis, B.R., (2013) Influence of Geometrical Configuration of The Cavity In The Stress Distribution of Restored Premolars with Composite Resin. *Journal of Research in Dentistry*. 1(1): 72–82.
- Tanner, J., Tolvanen, M., Garoushi, S., dan Säilynoja, E., (2018) Clinical Evaluation of Fiber-Reinforced Composite Restorations in Posterior Teeth - Results of 2.5 Year Follow-up. *The Open Dentistry Journal*. 12(1): 476–485.
- Tsertsidou, V., Mourouzis, P., Dionysopoulos, D., Pandoleon, P., dan Tolidis, K., (2023) Fracture Resistance of Class II MOD Cavities Restored by Direct and Indirect Techniques and Different Materials Combination. *Polymers*. 15(16).
- Țuculină, M.J., Staicu, A.N., Munteanu, M.C., Cumpata, C.N., Dimitriu, B., Rica, a.m., Bezna, M.C., Popa, D.L., Popescu, A.D., dan Tirca, T., (2023) Study on the Restoration of Class II Carious Cavities by Virtual Methods: Simulation of Mechanical Behavior.. 14(7).
- Valarmathi, S., Hemapriya, A.S., dan Sundar, J.S., (2024) CHI-SQUARE TESTS: A QUICK GUIDE FOR HEALTH RESEARCHERS. *Int. J. Adv. Res.* 12(10): 1214–1222.
- Valian, A., Moravej-Salehi, E., Geramy, A., dan Faramarzi, E., (2015) Effect of Extension and Type of Composite-Restored Class II Cavities on Biomechanical Properties of Teeth: A Three Dimensional Finite Element Analysis. *Journal of Dentistry*. 12(2): 140-150.
- Vallittu, P. dan O'zcan, M., (2017) *Clinical Guide to Principles of Fiber Reinforced Composites in Dentistry*. 1st ed. Duxford: Elsevier Ltd. pp.11-22, 26-31, 47.
- Varghese, J.T., Cho, K., Raju, Farrar, P., Prentice, L., dan Prustry, B.G., (2022) Influence of silane coupling agent on the mechanical performance of

flowable fibre-reinforced dental composites. *Dental Materials*. 38(7): 1173-1183.

Vasiliu, R.D., Utu, I.D., dan Porojan, L., (2021) The effect of thermocycling on microhardness and surface roughness of two zirconia reinforced lithium silicate glass-ceramics. *Materials Today: Proceedings*. 45(2021): 4247–4249.

Xie, Y., Chen, S., Sheng, L., Sun, Y., dan Liu, S., (2023) A New Landscape of Human Dental Aging: Causes, Consequences, and Intervention Avenues. *Aging and Disease. International Society on Aging and Disease*. 14(4): 1123–1144.

Yadav, S., Verma, P.K., Samant, P.S., Singh, A.R., dan Chauhan, R., (2019) Failure of Composite Restorations. *Asian Journal of Oral Health & Allied Sciences*. 9(1): 28-33.

Yang, G., Park, M., dan Park, S.J., (2019) Recent progresses of fabrication and characterization of fibers-reinforced composites: A review. *Composites Communications*. 14(2019): 34–42.

Yulianto, H.D.K., Rinastiti, M., Cune, M.S., de Haan-Visser, W., Atema-Smit, J., Busscher, H.J., dan van der Mei, H.C., (2019) Biofilm composition and composite degradation during intra-oral wear. *Dental Materials*. 35(5): 740–750.

Zhou, X., Wang, S., Peng, X., Hu, Y., Ren, B., Li, M., Hao, L., Feng, M., Cheng, L., dan Zhou, X., (2018) Effects of water and microbial-based aging on the performance of three dental restorative materials. *Journal of the Mechanical Behavior of Biomedical Materials*. 80(2018): 42–50.