

Daftar Pustaka

- Agrawal, P., Nikhade, P., Patel, A. 2022. Bromelin: a potent phytomedicine. *Cureus*, 14(8): 5–7.
- Alkadhimi, A., & Motamedi, F. 2019. Orthodontic adhesives for fixed appliances: a review of available systems. *Dent. Update.*, 46(8): 742–58.
- Alshahni, R. Z., Sato, K., Hosaka, K., Hatayama, T., Chiba, A., Foxton, R. M., Tagami, J., Sumi, Y., Shimada, Y., & Nakajima, M. 2020. Effect of smear layer deproteinization with enzyme solutions on bonding efficacy of one-step self-etch adhesives. *Int. J. Adhes. Adhes.*, 102(20): 1–8.
- Alsharif, S., Alhareb, A., & Abudalazez, A. 2024. Components of dental resin composites: a literature review. *Alq. J. Med. App. Sci.*, 7(3): 427–40.
- Ansari, M. Y., Agarwal, D. K., Gupta, A., Bhattacharya, P., Ansar, J., & Bhandari, R. 2016. Shear bond strength of ceramic brackets with different base designs: Comparative in-vitro study. *J Clin Diagn Res*, 10(11): 64–8.
- Anusavice, K.J., Shen, C., & Rawls, H.R. 2013. *Phillip's science of dental materials*. 12th ed. St. Louis: Elseviere.
- Behnaz, M., Dalaie, K., Mirmohammadsadeghi, H., Salehi, H., Rakhshan, V., Aslani, F. 2018. Shear bond strength and adhesive remnant index of orthodontic brackets bonded to enamel using adhesive systems mixed with TiO₂ nanoparticles. *Dent Press J Orthod*, 23(4): 1–7.
- Bhalajhi S.I. 2018. *Orthodontics: The art and science*. 5th ed. New Delhi: SK Arya.
- Campos, E.A., Correr, G.M., Leonardi, D.P., Pizzatto, E., & Morais, E.C, 2009, Influence of chlorhexidine concentration on microtensile bond strength of contemporary adhesive systems. *Braz Oral Res*, 23(3): 340 – 5.
- Cenzato, N., Nobili, A., & Maspero, C. 2021. Prevalence of dental malocclusion in different geographical areas: scoping review. *Dent J*, 9(10): 1–10.
- Cerone, M., Badrawy, W. E., Gong, S. G., Prakki, A. 2019. Bond strength of universal self-etch 1-step adhesive systems for orthodontic brackets. *J Can Dent Assoc*, 85(6): 1–7.
- Chaimaungchuen, K., Riddhabhaya, A., Nattisa, N., & Sirisoontorn, I. 2022. Shear bond strength and mode of failure of polypropylene fibers in orthodontic flash-free adhesive. *Polym.*, 14(22): 4167–76.

- Chauhan, K., Basavanna, R., Shivanna, V. 2015. Effect of bromelin enzyme for dentin deproteinization on bond strength of adhesive system. *J Conserv Dent.* 18(5): 360–3.
- Chung, C.H., Friedman, D., & Mante, F.K. 2022. Shear bond strength of rebounded mechanically retentive ceramic brackets. *AJO-DO.* 122(3): 282–7.
- Cobourne, M.T., & DiBiase, A.T. 2015. *Handbook of Orthodontics.* 2rd ed. India: Elseviere.
- Craig, R.G. & Powers, J.M. 2016. *Restorative Dental Materials.* 11th ed. Elseviere: St. Louis.
- Czyzewska, A.P., Szaniec, Z.M., Olszewska, A., Polichnowska, M., Grabarek, B.O., Dudek, D., Sobanski, D., Jakubowska, A.C. 2022. Comparison of bond strength of orthodontic brackets on to the tooth enamel of 120 freshly extracted adult bovine medial lower incisors using 4 adhesives: a resin-modified glass ionomer adhesive, a composite adhesive, a liquid composite adhesive, and a one-step light-cured adhesive. *Med. Sci. Monit.*, 28(22): 1–8.
- Dominguez, G.C., Tortamano, A., Lopes, L.V., Catharino, P.C., Morea, C. 2013. A comparative clinical study of the failure rate of orthodontic brackets bonded with two adhesive systems: conventional and self-etching primer (SEP). *Dent Press J Orthod.* 18(2): 55–60.
- Eliades, G.W., Watts, D.C., & Eliades, T. 2005. *Dental Hard Tissues and Bonding.* Germani: Springer.
- Gupta, N., Mittal, N., Giri, S., Arora, C., Malhotra, P., & Ahluwalia, R. 2023. A review of the research on deproteinizing agents as a first step toward improved bonding. *J. Surv. Fish. Sci.*, 10(1): 1170–7.
- Guzman, U.A., Jerrold, L., Vig, P.S., & Abdelkarim, A. 2013. Comparison of shear bond strength and adhesive remnant index between precoated and conventionally bonded orthodontic. *Prog. Orthod.*, 14(39): 1–5.
- Hadju, A.I., Dumitrescu, R., Balean, O., Jumanca, D., Rosianu, R.S., Floare, L., Bolchis, V., Vlase, T., & Galuscan, A. 2024. Microscopic and color changes in direct dental restorative composite resins upon immersion in beverages: characterization by scanning electron microscopy (SEM) and energy-dispersive x-ray spectroscopy (EDS). *Biomed.*, 12(1740): 1-15.
- Henkin, F. S., Macedo, E.O., Santos, K. S., Schwarzbach, M., Samuel, S. M., Mundstock, K. S. 2016. In vitro analysis of shear bond strength and adhesive remnant index of different metal brackets. *Dent Press J Orthod*, 21(6): 67–73.

- Jani, B., Shankar, C., Shah, A.C., Ramalingam, K. 2024. Effectiveness of different etching agents on enamel surface and shear bond strength: an in vitro evaluation. *Cureus*, 16(2): 1–12.
- Jena, A.K., Duggal, R., Mehrotra, A.K. 2007. Physical properties and clinical characteristics of ceramic brackets: a comprehensive review. *AJODO*, 20(2): 1–12.
- Joseph, R., Ahmed, N., Younus A, A., & Bhat, K. R. 2022. Evaluation of shear bond strength of a primer incorporated orthodontic composite resin: an in-vitro study. *Cureus*, 14(4): 1 – 8.
- Justus, R. 2016. Deproteinization of tooth enamel surfaces to prevent white spot lesions and bracket bond failure: a revolution in orthodontic bonding. *APOS Trends Orthod*, 6(4): 179–184.
- Karamani, I., Kalimeri, E., Seremidi, K., Gkourtsogianni, S., & Kloukos, D. 2022. Chlorhexidine mouthwash for gingivitis control in orthodontic patients: a systematic review and meta-analysis. *Oral Hlth Prev Dent*, 20(1): 279–94.
- Khan, A., Suryadevaraya, S.S., Rao, B.V., Kattimani, S., Sha, S.K., & Bhaskara, B.V. 2019. Appraisal of orthodontic brackets for adhesive remnant index with and without primer: in vitro study. *Int. J. Prev. Clin. Dent. Res.*, 18(5): 68–70.
- Khan, R., Sharma, N., Garg, Y., Kumar, G., Garg, K., & Aleemuddin, M. 2020. Comparison of different dentin deproteinizing agents on the shear bond strength of resin-bonded dentin. *Int. J. Clin. Pediatr. Dent.*, 13(1): 69–77.
- Khatib, M. S., Devarasanahalli, S. V., Aswathanarayana, R. M., Venkateswara, A. H., & Nadig, R. 2020. Microtensile bond strength of composite resin following the use of bromelain and papain as deproteinizing agents on etched dentin: an in vitro study. *Int J Clin Pediatr Dent*. 13(1): 43–7.
- Lee, S.Y., Greener, E.H., & Menis, D.L. 1995. Detection of leached moieties from dental composites in fluid simulating food and saliva. *Elseviere*, 11(5): 348–53.
- Levin, L., Samorodnitzky, G.R., & Machtei, E.E. 2008. The association of orthodontic treatment and fixed retainers with gingival health. *J. Periodontology*, 79(11): 2087–92.
- Mahmoud, E., Pacurar, M., Bechir, E., Maris, M., Olteanu, C., Dascalu, I., & Moldova, M. 2017. Comparison of shear bond strength and adhesive remnant index of brackets bonded with two types of orthodontic adhesive. *Mater. Plast.*, 54(1): 141–4.

- Markovic, E., Glisic, B., Scepan, I., Markovic, D., & Jokanovis, V. 2013. Bond strength of orthodontic adhesives. *J Met*, 23(8): 79–88.
- McGraw-Hill. 2003. *Dictionary of Materials Science*. New York: McGraw-Hill.
- Meeran, N. A., & George, A. M. 2013. Effect of various commercially available mouthrinses on shear bond strength of orthodontic metal brackets: An in vitro study. *Indian J Dent Res*, 24(5): 616–21.
- Mirhashemi, A.H., & Bahrami, R. 2023. The effect of recommended mouthwashes on the shear bond strength of orthodontic brackets during the Covid-19 pandemic: an in vitro study. *Front Dent*, 20(42): 8–9.
- Mitha, S., Elnaem, M. H., Koh, M., En, C., Babar, M. G., Siddiqui, & J., Jamshed, S. 2016. Use and perceived benefits of mouthwash among malaysian adults: an exploratory insight. *J Adv Res*. 7(3): 7–14.
- Montasser, M. A., & Drummond, J. L. 2009. Reliability of the adhesive remnant index score system with different magnifications. *Angle Orthod.*, 79(4): 773–6.
- Munawar, A. H., Febrida, R., & Nurdin, D. 2013. Influence of alcohol-containing mouthwash and alcohol-free mouthwash towards the hybrid composite restoration materials surface hardness. *PJD*, 25(3): 1 – 6.
- Mundhada, V.V., Jadhav, V.V., & Reche, A. 2023. A review on orthodontic brackets and their application in clinical orthodontics. *Cureus.*, 15(10): 1–10.
- Naves, L. Z., Gerdolle, D.A., Andrade, O. S., & Gresnigt, M. 2020. Seeing is believing? when scanning electron microscopy meets clinical dentistry: the replica technique. *Microsc. Res. Tech.*, 83(9): 1118 – 23.
- Oh, K.T., Choo, S. U., & Kim, K. N. 2005. A stainless-steel bracket for orthodontic application. *Eur J Orthod*, 27(3): 237–44.
- Olejniak, E., & Szymanska, J. 2020. Active ingredients of mouthwashes. *Polish Pharmaceutical Society*, 77(6): 825–32.
- Panchal, S., Ansari, A., Jain, A.K., Garg, Y. 2019. Effects of different deproteinizing agent on topographic features of enamel and shear bond strength – an in vitro study. *J. Orthod. Sci.*, 8(17): 1–7.
- Papageorgiou, S.N., Hochli, D., & Eliades, T. 2017. Outcomes of comprehensive fixed appliance orthodontic treatment: a systematic review with meta-analysis and methodological overview. *KJO*, 47(6): 401–13.

- Paradella, T. C. & Bottino, M. A. 2012. Use of SEM in dental research: a historical perspective from 1962 to 2012. *J. Dent. Sci.*, 7(4): 89–95.
- Pavan, R., Jain, S., Shraddha, & Kumar, A. 2012. Properties and therapeutic application of bromelin: a review. *Biotechnol. Res. Int.*, 12(1): 1–6.
- Pithon, M.M., Ferraz, C.S., Couto, G.D., Dos, A.M. 2013. Effect of different concentrations of papain gel on orthodontic bracket bonding. *Prog Orthod*, 14(22): 1–5.
- Pithon, M. M., Campos, S., Da, R., & Coqueiro, S. 2016. Effect of bromelain and papain gel on enamel deproteinisation before orthodontic bracket bonding. In *Aust Orthod J.* 32(1): 23–9.
- Premkumar, S. 2015. *Textbook of Orthodontics*. 3rd ed. India: Elsevier.
- Razavi, ESE., Nik, T.H., Hoosmand, T., Farazdaghi, H., & Arefi, A.H. 2021. Surface characterization and frictional force between stainless steel brackets and archwires in orthodontic patients using chlorhexidine and Persica-containing mouthrinses: A randomized controlled trial. *Dent Res J*, 18(21): 1–10.
- Ren, X., Zhang, Y., Xiang, Y., Hu, T., Cheng, R., & Cai, H. 2023. The efficacy of mouthwashes on oral microorganisms and gingivitis in patients undergoing orthodontic treatment: a systematic review and meta-analysis. *BMC Oral Health*, 23(1): 1–10.
- Salama, F., Alrejaye, H., Aldosari, M., & Almosa, N. 2018. Shear bond strength of new and rebonded orthodontic brackets to the enamel surfaces. *J. Orthod. Sci.*, 7(12): 1–7.
- Santana, W., Thahar, B., Mardiaty, E., & Salim, J. 2017. The effect of alcohol-containing mouthwash and alcohol-free mouthwash towards the power chains force decay. *PJD*, 29(3): 196–203.
- Salem, M.R., Albelasy, N.F., Al-Wakeel, E. E., Abdelnaby, Y. L. 2023. evaluation the adhesive remnant index of two different adhesive systems using two different curing times. *MJD*, 10(4): 264–70.
- Scribante, A., Bulnes, R., Montasser, M., & Vallittu, P. 2016. Orthodontics: bracket materials, adhesives systems, and their bond strength. *Biomed Res. Int.*, 16: 1–3.
- Scribante, A., Pascadopoli, M., Gandini, P., Mangia, R., Spina, C., & Sfondrini, M. F. 2024. Metallic vs ceramic bracket failures after 12 months of treatment: a prospective clinical trial. *Int. Dent. J.*, 74(4): 1371–7.

- Sharma, A., Kumar, L., Malhotra, M., Singh, A.P., & Singh, A.P. 2024. Comosus (pineapple): a comprehensive review of its medicinal properties, phytochemical composition, and pharmacological activities, *JDDT*, 14(5): 148–57.
- Sharma, R., Gupta, S., Ahuja, S., Bhambri, E., Choudhary, A., Sharma, S., Thapa, R.P., Sharma, A., & Sharma, D. 2018. Evaluation of etch patterns and bond strength after using different enamel conditioner with and without deproteinizing agent: an in vitro study, *Int J Curr Res*, 10(09): 73885–90.
- Shilpa, M., Jain, J., Shahid, F., Gufran, K., Sam, G., & Khan, M. S. 2019. Efficacy of three types of plaque control methods during fixed orthodontic treatment: a randomized controlled trial. *J Pharm Bioallied Sci*, 11(2): 246–51.
- Silverstone, L.M., Saxton, C.A., Dogon, I.L., Fejerskov, O. 1975. Variation in the pattern of acid etching of human dental enamel examined by scanning electron microscopy. *Caries Res*. 9: 373–87.
- Singh, J. 2015. *Textbook of Orthodontics*. India: Jaypee Brother Medical Publishers.
- Singh, J., Joshi, A., Manjooran, T., Raghav, S., Gautam, A., & Patel, J. H. 2018. An in vitro evaluation of shear bond strength of orthodontic brackets after mouth rinse. *JCDP*, 19(7): 862–6.
- Stape, T.H., Menezes, M.S., Aguiar, F.H., Quagliattob, P.S., Soaresb, C.J., & Martins, L.R. 2014. Long-term effect of chlorhexidine on the dentin microtensile bond strength of conventional and self-adhesive resin cements: a two-year in vitro study. *Int J Adhes Adhes*, 50:228–34.
- Thankachan, S., Emmatty, T., Jose, B., Krishna, K., Peter, J., Methippara, J., & Sebastian, R. 2022. Comparative efficacy of three deproteinizing agents on the shear bond strength of pit and fissure sealant: An in vitro study. *Int. J. Prev. Clin. Dent. Res.*, 9(3): 72–7.
- Trindade, A.M., Pereira, T.B.J., Smith, N.P., Horta M.R., Pithon, M.M., & Akaki, E. 2013. Consequences of enamel preparation with sodium hypochlorite, polyacrylic, and phosphoric acids for the bonding of brackets with resin-modified glass ionomer cements. *Mater Res*. (16):1423-7.
- Uysal, T., Sari, Z., & Demir, A. 2014. Are the flowable composites suitable for orthodontic bracket bonding. *Angle Orthod*, 74(5): 697-702.
- Valletta, R., Prisco, D., De, Santis R., Ambrosio, L., & Martina, R. 2007. Evaluation of the *debonding* strength of orthodontic brackets using three different bonding systems. *Eur. J. Orthod.*, 29(7): 571–7.

- Victoriana, D.M., Prihandini, I.W.S., & Pinandi, S.P. 2013. Perbedaan kuat rekat tarik dan geser pada rebonding dengan dan tanpa pengetsaan braket logam daur ulang. *J. Ked. Gi.*, 4(3): 198–203.
- Vivanco, R.G., Sousa, A.B.S., Oliveira, V.D.C., Sinhoreti, M.A.C., & Souza, F.C. 2024. Effect of the use of bromelin associated with bioactive glass-ceramic on dentin or adhesive interface. *Clin. Oral InvestigI.*, 28(106):12–3.
- Williams, J.K., Cook, P.A., Isaacson, K.G., & Thom, A.R. 2012. *Fixed Orthodontic Appliances*. Michigan: Wright Publisher.
- Wirth, T., Kaweck, M. M., Reeve, J., Cunningham, C., Bovaird, I., & Macfarlane, T. V. 2012. Can alcohol intake from mouthwash be measured in epidemiological studies? Development and validation of mouthwash use questionnaire with particular attention to measuring alcohol intake from mouthwash. *JOMR*, 3(3): 7–8.
- Yadala, C., Gaddam, R., Arya, S., Baburamreddy, K.V., Raju, V.R., Varma, P.K. 2015. Comparison of shear bond strength of three self-etching adhesives: an in-vitro study. *J. Int. Oral Health*. 7(7): 53–7.
- Yang, L., Yin, G., Liao, X., Xing, Y., Ye, N. 2019. A novel customized ceramic bracket for esthetic orthodontics: in vitro study. *Prog. Orthod*. 20(39): 1–10.
- Yassaei, S., Davari, A., Goldani Moghadam, M., & Kamaei, A. 2014. Comparison of shear bond strength of RMGI and composite resin for orthodontic bracket bonding. *J of Dent*. 11(3): 282–9.
- Zhang, B.W., Cao, S., Al-Somairi, M.A., He, J., Liu, Y. 2022. Effect of enamel-surface modifications on shear bond strength using different adhesive materials. *BMC Oral Health*. 22(224): 1–9.