

## DAFTAR PUSTAKA

- Abbas, A. S., & Jarjees, H. T., (2023). Comparison between adhesive remnant index of shear bond strength and tensile bond strength: An in vitro experimental study. *Int. J. Appl. Dent. Sci.* 9(3): 340–345.
- Ahmadi, H., Haddadi-Asl, V., Ghafari, H.-A., Ghorbanzadeh, R., Mazlum, Y., & Bahador, A. (2020). Shear bond strength, adhesive remnant index, and anti-biofilm effects of a photoexcited modified orthodontic adhesive containing curcumin doped poly lactic-co-glycolic acid nanoparticles: An ex-vivo biofilm model of *S. mutans* on the enamel slab bonded brackets. *Photodiagnosis Photodyn. Ther.*, 30, 101674. <https://doi.org/10.1016/j.pdpdt.2020.101674>
- Ahmed, T., Rahman, N. A., & Alam, M. K. (2021). Comparison of Orthodontic Bracket Debonding Force and Bracket Failure Pattern on Different Teeth In Vivo by a Prototype Debonding Device. *BioMed Res. Int.*, 1–7. <https://doi.org/10.1155/2021/6663683>
- Ajami, AA., Bahari, M., Oskoe, SS., Kimyai, S., Kahnamoui, MA., Rikhtegaran S., Ghaffarian, R. (2012). Effect of Three Different Mouthrinses on Microleakage of Composite Resin Restorations with Two Adhesive Systems after Bleaching with 10% Carbamide Peroxide. *J. Contemp. Dent. Pract.* 13(1):16-22.
- Akova, T., Yoldas, O., Toroglu, M. S., & Uysal, H., (2005). Porcelain surface treatment by laser for bracket-porcelain bonding. *Am. J. Orthod. Dentofacial. Orthop.* 128(5): 630–637.
- Aldoski, M. R. N., Selivany, B. J., & Sulaiman, T. (2022). Bromelain-based endodontic irrigant: preparation, properties, and biocompatibility: An in-vitro study. *Aust. Endod. J.* <https://doi.org/10.1111/aej.12704>
- Aljehani, D., & Baeshen, H. A., (2018). Effectiveness of the american board of orthodontics discrepancy index in predicting treatment time. *J. Contemp. Dent. Pract.* 19(6): 647–650.
- Almutairi, R. M., Alturaif, D. J., & Alanzi, L. M. (2023). Importance of Oral Hygiene in Orthodontic Treatment. *Saudi J. Oral. Dent. Res.*, 8(03), 100–109. <https://doi.org/10.36348/sjodr.2023.v08i03.001>
- 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.
- Alshawy, E.S., Alsharif, A.N. (2022). Awareness of Orthodontic Patient about Oral hygiene: A Cross-Sectional Study. *Bahrain Med. Bull.* 44(3):989-992.

- Ansari M.Y., Agarwal D.K., Gupta A., Bhattacharya P., Ansar J., Bhandari R. Shear Bond Strength of Ceramic Brackets with Different Base Designs: Comparative In-vitro Study. *J. Clin. Diagn. Res.* 2016;10:ZC64–ZC68. doi: 10.7860/JCDR/2016/20624.8910. Artun, J., & Bergland, S. (1984). Clinical trials with crystal growth conditioning as an alternative to acid-etch enamel pretreatment. *Am. J. Orthod.*, 85(4): 333-340.
- Birnie, D., (1990). Ceramic brackets. *Br. J. Orthod.*, 17(1): 71–74.
- Bishara SE, Trulove TS. (1990) Comparisons of different debonding techniques for ceramic brackets: an in vitro study. *Am. J. Orthod. Dentofac. Orthop.* 98:145-53.
- Bona, D.A., & van Noort, R. (1995). Shear vs. Tensile Bond Strength of Resin Composite Bonded to Ceramic. *J. Dent. Res.*, 74(9), 1591–1596. <https://doi.org/10.1177/00220345950740091401>
- Boyle, P., Koechlin, A., Autier, P., Wiley, J., & Allé, R., (2014). *Mouthwash use and the prevention of plaque, gingivitis and caries.* 20.
- Brookes, Z., McGrath, C., & McCullough, M., (2023). Antimicrobial mouthwashes: an overview of mechanisms-what do we still need to know. *Int. Dent. J.* 73(2):64–68.
- Campos, E. A. de, 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), 340–345. <https://doi.org/10.1590/s1806-83242009000300019>
- Chauhan, K., Basavanna, R., & Shivanna, V. (2015). Effect of Bromelain Enzyme for Dentin Deproteinization on Bond Strength of Adhesive System. *J. Conserv. Dent.*, 18(5), 360–363.
- Choudhary, O. P., & ka, P. (2017). Scanning Electron Microscope: Advantages and Disadvantages in Imaging Components. *Int. J. Curr. Microbiol. Appl. Sci.*, 6(5), 1877–1882. <https://doi.org/10.20546/ijcmas.2017.605.207>
- Dayem, R., & Tameesh, M. (2013). A new concept in hybridization: Bromelain enzyme for deproteinizing dentin before application of adhesive system. *Contemp. Clin. Dent.*, 4(4), 421–426. <https://doi.org/10.4103/0976-237X.123015>
- De Almeida Cardoso, M., Saraiva, P. P., Maltagliati, L. Á., Rhoden, F. K., Costa, C. C. A., Normando, D., & Filho, L. C. (2015). Alterations in Plaque Accumulation and Gingival Inflammation Promoted by Treatment with Self-Ligating and Conventional Orthodontic Brackets. *Dent. Press J. Orthod.*, 20(2), 35–41. <https://doi.org/10.1590/2176-9451.20.2.035-041.oar>
- Dewhirst, F. E., Chen, T., Izard, J., Paster, B. J., Tanner, A. C. R., Yu, W. H., Lakshmanan, A., & Wade, W. G. (2010). The human oral microbiome. *J. Bacteriol.*, 192(19), 5002–5017. <https://doi.org/10.1128/JB.00542-10>

- Elekdag-Türk, S. (2020). In vitro evaluation of a ceramic bracket with a laser-structured base. *BMC Oral Health*, 20(1), 17. <https://doi.org/10.1186/s12903-020-1009-9>
- Espinosa, R., Valencia, R., Uribe, M., Ceja, I., Cruz, J., & Saadia, M. (2010). Resin Replica in Enamel Deproteinization and its Effect on Acid Etching. *J. Clin. Ped. Dent.*, 35(1), 47–51. <https://doi.org/10.17796/jcpd.35.1.u425308167271132>
- Fan-Chiang, Y. S., Chou, P. C., Hsiao, Y. W., Cheng, Y. H., Huang, Y., Chiu, Y. C., Lin, Y. J., Mine, Y., Feng, S. W., Lee, I. T., & Peng, T. Y. (2023). Optimizing Dental Bond Strength: Insights from Comprehensive Literature Review and Future Implications for Clinical Practice. *Biomed.* 11(11). <https://doi.org/10.3390/biomedicines11112995>
- Ferrari, M., Goracci, C., Sadek, F., & Cardoso, P. E. C. (2002). Microtensile bond strength tests: scanning electron microscopy evaluation of sample integrity before testing. *Eur. J. Oral Sci.*, 110, 385–391.
- Fleming, P. S., Eliades, T., Katsaros, C., & Pandis, N. (2013). Curing lights for orthodontic bonding: A systematic review and meta-analysis. *Am. J. Orthod. Dentofac. Orthop.*, 143(4). <https://doi.org/10.1016/j.ajodo.2012.07.018>
- Garg, Y., Kumar, G., Sharma, N., Garg, K., Khan, R., & Aleemuddin, M. (2020). Comparison of Different Dentin Deproteinizing Agents on the Shear Bond Strength of Resin-bonded Dentin. *Int. J. Clin. Pediatr. Dent.*, 13:69–77. <https://doi.org/10.5005/jp-journals-10005-1877>
- Ghodasra, R., & Brizuela, M. (2023). *Orthod. Mal.* StatPearls Publishing.
- Goyal, N., Shamanna, P. U., Varughese, S. T., Abraham, R., Antony, B., Emmatty, R., & Paul, P. (2019). Effects of amine fluoride and probiotic mouthwash on levels of Porphyromonas gingivalis in orthodontic patients: A randomized controlled trial. *J. Indian Soc. Periodontol*, 23(4), 339–344. [https://doi.org/10.4103/jisp.jisp\\_551\\_18](https://doi.org/10.4103/jisp.jisp_551_18)
- Graber, L. W., Vig, K. W. L., Vanarsdall, R. L., & Huang, G. J. (2017). *Orthodontics Current Principles and Techniques* (6 ed.). Elsevier.
- Guo, J., Li, L., Guan, G., Bennani, F., & Mei, L. (2020). Oral health knowledge and practice among orthodontic clients in China and New Zealand. *Can J Dent Hyg* (Vol. 54, Nomor 3).
- Gupta, V., Pant, V. A., Pandey, S., & Pant, A. B. (2021). Efficacy and safety evaluation of alcohol-containing and alcohol-free mouth rinses: A clinicocytological study. *J. Indian Soc. Periodontol.*, 25(2), 128–132. [https://doi.org/10.4103/jisp.jisp\\_196\\_20](https://doi.org/10.4103/jisp.jisp_196_20)
- Gurgan S, Yalcin Cakir F. (2008) The effect of three different mouthrinses on the surface hardness, gloss and colour change of bleached nano composite resins. *Eur. J. Prosthodont. Restor. Dent.* 6(3):104-08.

- J. Huang, Y. Yao, J. Jiang, C. Li, (2018). Effects of motivational methods on oral hygiene of orthodontic patients: a systematic review and meta-analysis, *Med*, 97 (47)
- Joseph, R., Ahmed, N., Younus A, A., & Bhat, K. R. R. (2022). Evaluation of Shear Bond Strength of a Primer Incorporated Orthodontic Composite Resin: An In-Vitro Study. *Cureus*. <https://doi.org/10.7759/cureus.24088>
- Jung MH (2020). Factors influencing treatment efficiency: A prospective cohort study. *Angle Orthod*. 91(1):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.
- Khatib, M. S., Devarasanahalli, S. V., Aswathanarayana, R. M., & Venkateswara, A. H. (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), 43-47.
- Kramer, A., & Splieth, C. (2022). *Health promotion through structured oral hygiene and good tooth alignment Gesundheitsförderung durch strukturierte Mundhygiene und gute Zahnstellung*.
- Kukiattrakoon, B., & Samruajbenjakul, B. (2010). Shear bond strength of ceramic brackets with various base designs bonded to aluminous and fluorapatite ceramics. *Eur. J. Orthod.*, 32(1), 87–93. <https://doi.org/10.1093/ejo/cjp055>
- Kuśmierczyk, D., & Małkiewicz, K. (2019). Orthodontic adhesive systems-over half a century of research and experience. *J. Stoma*. 72(4),178-183. Termedia Publishing House Ltd. <https://doi.org/10.5114/jos.2019.91236>
- Larrabee, T. M., Liu, S. S. Y., Torres-Gorena, A., Soto-Rojas, A., Eckert, G. J., & Stewart, K. T. (2012). The effects of varying alcohol concentrations commonly found in mouth rinses on the force decay of elastomeric chain. *Angle Orthod.*, 82(5), 894–899. <https://doi.org/10.2319/062211-407.1>
- Lim, B.-S., Cheng, Y., Lee, S.-P., & Ahn, S.-J. (2013). Chlorhexidine release from orthodontic adhesives after topical chlorhexidine treatment. *Eur. J. Oral Sci.*, 121(3pt1), 211–217. <https://doi.org/10.1111/eos.12033>
- Littlewood, S. J., & Mitchell, L. (2019). *An Introduction to Orthodontics* (5 ed.). Oxford University Press.
- Maharani, DA., Ramadhani A, Adiatman M, Yuniardini Septorini Wimardhani, Kusdhany L, Rahardjo A, (2017). Efficacy Of Mouth Rinse Formulation Based On Cetylpyridinium Chloride 0.1% In The Control Of Dental Calculus Buildup. *Int. J. Appl. Pharm*. 30(9):176–6.

- Masarykova, N., Tkadlec, E., Chlup, Z., Vrbsky, J., Brysova, A., Cernochova, P., & Izakovicova Holla, L. (2023). Comparison of microleakage under orthodontic brackets bonded with five different adhesive systems: in vitro study. *BMC Oral Health*, 23(1). <https://doi.org/10.1186/s12903-023-03368-2>
- Mcgrath, C., Clarkson, J., Glenny, A.-M., Walsh, L. J., & Hua, F. (2023). Effectiveness of Mouthwashes in Managing Oral Diseases and Conditions: Do They Have a Role? *Int. Dent. J.*, 73, S69–S73. <https://doi.org/10.1016/j>
- 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.*
- Merrill, SW., Osterle, LJ., Hermes, CB. (1994). Ceramic bracket bonding: A comparison of shear, tensile, and torsional bond strengths of ceramic brackets. *Am. J. Orthod. Dentofac. Orthop.* 106:290-297.
- 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.*
- 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.
- Mulgaonkar, A., de Ataide, I. de N., Fernandes, M., Lambor, R., & Soares, R. (2019). Effect of bromelain enzyme on the microleakage of composite resin restorations after external tooth bleaching: An in vitro study. *J Conserv Dent.*, 22(5), 436–440. [https://doi.org/10.4103/JCD.JCD\\_340\\_19](https://doi.org/10.4103/JCD.JCD_340_19)
- Nishad, A., Sreesan, N. S., Joy, J., Lakshmanan, L., Thomas, J., & Anjali, V. A. (2017). Impact of mouthwashes on antibacterial activity of subjects with fixed orthodontic appliances: A randomized clinical trial. *J. Contemp. Dent. Pract*, 18(12), 1112–1116. <https://doi.org/10.5005/jp-journals-10024-2185>
- Ok, U., Aksakalli, S., Eren, E., Kechagia, N., (2021), Single-Component Orthodontic Adhesives: Comparison of The Clinical and In Vitro Performance., *Clin. Oral. Investig.* 25: 3987–3999.
- Okuda, K., Adachi, M., & Iijima, K. (1998). The efficacy of antimicrobial mouth rinses in oral health care. *Bull. Tokyo Dent. Coll.*, 39(1), 7–14.
- Özduman, Z. C., Oglakci, B., Doğan, M., Deger, C., & Eliguzeloglu Dalkilic, E. (2022). How does antiseptic mouthwashes against SARS-COV-2 affect the bond strength of universal adhesive to enamel? *Microsc. Res. Tech*, 85(3), 1199–1208. <https://doi.org/10.1002/jemt.24028>

- Pahwa, N., Kumar, A., Gupta, S. (2011). Short term clinical effectiveness of a 0.07% cetylpyridinium chloride mouth rinse in patients undergoing fixed orthodontic. *Saudi Dent. J.* 23:135-141
- Panchal, S., Ansari, A., Jain, A. K., & Garg, Y. (2019). Effects of different deproteinizing agents on topographic features of enamel and shear bond strength - An in vitro study. *J. Orthod. Sci*, 8(1). [https://doi.org/10.4103/jos.JOS\\_26\\_19](https://doi.org/10.4103/jos.JOS_26_19)
- Park, SH., Kim K., Cho SH., Chung DH., Ahn, JS. Variation in adhesion of *Streptococcus mutans* and *Porphyromonas gingivalis* in saliva-derived biofilms on raw materials of orthodontic brackets. *Korean. J. Orthod.* 524(4)3 -3278.
- Pavan, R., Jain, S., Shraddha, & Kumar, A. (2012). Properties and Therapeutic Application of Bromelain: A Review. *Biotechnol. Res. Int.*, 2012, 1–6. <https://doi.org/10.1155/2012/976203>
- Pérez-Chaparro, P. J., Gonçalves, C., Figueiredo, L. C., Favari, M., Lobão, E., Tamashiro, N., Duarte, P., & Feres, M. (2014). Newly identified pathogens associated with periodontitis: A systematic review. *J. Dent. Res.* 93(9),846–858. SAGE Publications Inc. <https://doi.org/10.1177/0022034514542468>
- Phiton, M. M., Campos, M. S., & Coquero, R. da S. (2016). Effect of Bromelain and Papain Gel on Enamel Deproteinisation Before Orthodontic Bracket Bonding. *Aust. Orthod. J.*,32(1).
- Phulari, S. B. (2017). *Orthodontics Principles and Practice* (2nd ed.). Jaypee Brothers Medical Publishers Pvt Ltd. 1-3.
- Pouyanfar, H., Golshah, A., Shekarbeigi, M. (2020). Shear Bond Strength of Metal and Ceramic Brackets to Composite Using Single Bond and Universal Adhesives. *Maced. J. Med. Sci.* 8:1-6.
- Proffit DDS, W. R., Fields Jr DDS MS MSD, H. W., Larson DDS MS, B. E., & Sarver DDS MS, D. M. (2019). *Contemporary Orthodontics*.
- Prylinska-Czyzewsk, A., MacIejewska-Szanie, Z., Olszewska, A., Polichnowska, M., Grabarek, B. O., Dudek, D., Sobanski, D., & Czajka-Jakubowski, A. (2022). Comparison of Bond Strength of Orthodontic Brackets onto 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. <https://doi.org/10.12659/MSM.938867>
- R. Reynolds and J. A. von Fraunhofer. (1976). Direct bonding of orthodontic brackets—a comparative study of adhesives, *Br. J. Orthod.*, 3(3): 143–146.

- Saccomanno, S., Saran, S., Laganà, D., Mastrapasqua, R. F., & Grippaudo, C. (2022). Motivation, Perception, and Behavior of the Adult Orthodontic Patient: A Survey Analysis. *BioMed Res. Int.*, 2022. <https://doi.org/10.1155/2022/2754051>
- 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. *Padjadjaran J. Dent.*, 29(3). <https://doi.org/10.24198/pjd.vol29no3.14476>
- Scribante, A., Contreras-Bulnes, R., Montasser, M. A., & Vallittu, P. K. (2016). Orthodontics: Bracket Materials, Adhesives Systems, and Their Bond Strength. Dalam *BioMed Res. Int.* (Vol. 2016). Hindawi Limited. <https://doi.org/10.1155/2016/1329814>
- Scribante, A., Pascadopoli, M., Gandini, P., Mangia, R., Spina, C., Sfondrini, MF. (2024). Metallic vs Ceramic Bracket Failures After 12 Months of Treatment: A Prospective Clinical Trial. *Int. Dent. J.* 74:1371-1377
- Shah, S. V., Hugar, S. M., Hallikerimath, S., Mundada, M. V., Badakar, C., & Gowtham, K. (2022). Antimicrobial Efficacy of Chlorhexidine and Herbal Mouth Rinse on Salivary Streptococcus mutans in Children with Mixed Dentition: A Randomized Crossover Study. *Int. J. Clin. Ped. Dent.*, 15(1), 99–103. <https://doi.org/10.5005/jp-journals-10005-2348>
- Sharafeddin, F., Yazdanpanah, M. H., & Jowkar, Z. (2021). Evaluation of the effects of bromelain and papain enzymes on shear bond strength of composite resin to enamel. *Int. J. Dent.*, 2021, 32336-39.
- 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. *J. Contemp. Dent. Pract.*, 19(7), 862–866. <https://doi.org/10.5005/jp-journals-10024-2348>
- Stape, T. H. S., Menezes, M. D. S., Barreto, B. D. C. F., Naves, L. Z., Aguiar, F. H. B., Quagliatto, P. S., & Martins, L. R. M. (2013). Influence of chlorhexidine on dentin adhesive interface micromorphology and nanoleakage expression of resin cements. *Microsc. Res. Tech.*, 76(8), 788–794. <https://doi.org/10.1002/jemt.22230>
- Sun L, Wong HM, McGrath CP. (2017). Relationship between the severity of malocclusion and Oral health related quality of life: a systematic review and meta-analysis. *Oral Health Prev. Dent.* 15(6):503–17
- Tufekci, E., Casagrande, Z. A., Lindauer, S. J., Fowler, C. E., & Williams, K. T. (2008). Effectiveness of an essential oil mouthrinse in improving oral health in orthodontic patients. *Angle Orthod*, 78(2), 294-298.
- Varilla, C., Marcone, M., Paiva, L., & Baptista, J. (2021). Bromelain, a group of pineapple proteolytic complex enzymes (*Ananas comosus*) and their possible

- therapeutic and clinical effects. a summary. *Foods* (Vol. 10, Nomor 10). MDPI. <https://doi.org/10.3390/foods10102249>
- Vij, T., & Prashar, Y. (2015). A review on medicinal properties of *Carica papaya* Linn. *Asian Pacific J. Trop. Dis.*, 5(1), 1–6. [https://doi.org/10.1016/S2222-1808\(14\)60617-4](https://doi.org/10.1016/S2222-1808(14)60617-4)
- Vivanco, R., de Cássia Oliveira, V., & de Carvalho Panzeri Pires-de-Souza, F. (2023). Long-term effect of bromelain and Biosilicate on dentin bond strength. *Dent. Mater.J.*, 39(75). <https://doi.org/10.1016/j.dental.2023.08.154>
- 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. *J. Oral Maxillofac. Res.* 3(3). <https://doi.org/10.5037/jomr.2012.3301>
- Yaseen, S. N., Qasim, A. A., & Al-Khatib, A. R. (2020). The effect of different mouth washes and text messages reminder in the oral health of orthodontic patients. *Braz. J. Oral Sci.*, 19, <https://doi.org/10.20396/bjos.v19i0.8658189>
- Yassaei, S., Davari, A., Moghadam, M. G., Kamaei, A., & Davari, A. (2014). Comparison of Shear Bond Strength of RMGI and Composite Resin for Orthodontic Bracket Bonding. *J. Dent.* 11(3). [www.jdt.tums.ac.ir](http://www.jdt.tums.ac.ir)
- Zakzouk ALSHAHLI, R., 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. <https://doi.org/10.1016/j.ijadhadh.2020.102672>