

## DAFTAR PUSTAKA

- Abed Y.A, Sabry H.A, Alrobeigy N.A, 2015. Degree of conversion and surface hardness of bulk-fill composite versus incremental-fill composite. *Tanta Dental Journal* 12:71-80.
- Aguiar, F.H.B., Oliveira, T.R.V., Lima, D.A.N.L., Paulillo, L.A.M.S., Lovadino, J.R., 2007. Effect of Light Curing Modes and Ethanol Immersion Media on The Susceptibility of a Microhybrid Composite Resin to Staining. *J Appl Oral Sci.* 15(2):105-109.
- Aguiar, F.H.B., Amdrade, K.R.M., Lima, D.A.N.L., Ambrosano, G.M.B., Lovadino, J.R., 2009, Influence of Light Curing and Sample Thickness on Microhardness of a Composite Resin, *Clin Cosmet Investig Dent.*, 1:21-5.
- Ahmad I., 2013. Depth resins, while fillings: A new techniwue for composite restorations. *Cosmetic Dent.*
- Al-Ahdal K, Ilie N, Silikas N, Watts DOC, 2015. Polymerization kinetics and impact of postpolymerization on the Degree of Conversion of bulk-fill resin-composite at clinically relevant depth. *Dental materials*; 31: 1207-1213.
- Albers, H.F. 2002. *Tooth-colored Restoratives Principles and Techniques*. BC Decker Inc Hamilton : London
- Alkhudhairy F.I., 2017. The effect of curing intensity on mechanical properties of different bulk-fill composite resins. *Clin Cosmet Investig Dent*;9:1-6.
- Allorerung J., Anindita P.S., Gunawan P.N., 2015. Uji kekerasan resin komposit aktivasi sinar dengan berbagai jarak penyinaran. *Jurnal e-GiGi (Eg)*; 3(2): 444-448.
- Alrahlah A, Silikas N, Watts DOC, 2014. Post-cure depth of cure of bulk fill dental resin-composites. *Dental materials*; 30: 149–54.
- Alshali R.Z., Silikas N., Satterthwaite, 2013. Degree of Conversion of Bulk fill Compared to Conventional Resin-Composites at Two Time Intervals, *Dent Mater.*, 29(9): 213 – 217.
- Andre V.R, Lee W.B, Ricardo W, 2019. Biomaterials. In: Roberson TM, Heymann HO, Swift EJ, editors. *Sturdevant's Art and Science of Operative Dentistry*. 5 ed. St. Louis: Mosby Elsevier; p. 196-215.
- Anusavice KJ, Shen C, Rawls HR, 2013. *Philips's Science of Dental Materials*. 12 th ed., St. Louis: Elsevier : 275-93.
- Badr, S.B.Y., Ibrahim, M.A., El Banna, M., 2013, Compressive Strength and Compressive Fatigue Limit Behaviour of Two Fluoride Releasing Materials., *Adv Med Sci.*, 2(3):030-036.
- Baig M.M., 2013. Microleakage evaluation in restorations using different resin composite insertion techniques and liners in preparations with high c-factor – An in vitro study. *King Saud University J Dental Science* 4: 57-64.
- Bektas, O.O., Hürmüzlü, F., Eren, D., 2012. Effect of The Composite Curing Light Mode on Polymerization Shrinkage of Resin Composites. *Cumhuriyet Dent J.* 15(1):1-6

- Beun ,S., Bailly, C., Dabin, A., Vreven, J., Devaux, J., Leloup, G., 2009. Rheological properties of experimental Bis-GMA/TEGDMA flowable resin composites with various macrofiller/microfiller ratio. *Dental Materials* ;25:198-205.
- Bucuta S, Ilie N, 2014. Light transmittance and micro-mechanical properties of bulk fill vs. conventional resin based composites. *Clin Oral Investig.Nov*;18(8):1991-2000.
- Campodonico, C.E., Tantbirojn, D., Olin, P.S., Versluis, A., 2011. Cuspal deflection and depth of cure in resin-based composite restorations filled by using bulk, incremental and transtooth-illumination techniques. *Journal of the American Dental Association (1939)* 142(10):1176-82
- Chesterman, J, A Jowett, A Gallacher, and P Nixon, 2015.VERIFIABLE CPD PAPER Bulk-Fill Resin-Based Composite Restorative Materials : A Review. 222 (5). Nature Publishing Group: 337–44.
- Christensen, Gordon J., 2012, Advantages and Challenges of Bulk Fill Resins *Clinicians Report : A publication of CR Foundation*, January Volume 5 Issue 1: 1-6.
- Ciccone-Nogueira, J.C., Borsatto, M.C., Souza-Zaroni, W.C., 2007, Microhardness of Composite Resins at Different Depths Varying the Post Irradiation Time, *J Appl Oral Sci.*, 15(4).
- Craig, Sakaguchi, R.L., Powers, J.P., 2012. *Craigs: RestorativeDental Material*,13 th edition, Elsevier.p.181.
- Czasch P, Ilie N, 2013. *In vitro* comparison of mechanical properties and degree of cure of bulk fill composites. *Clin Oral Investig.*2013;17:227-35.
- da Silva E.M., Almeida G.S., Poskus L.T., dan Guimara~es JG, 2008. Relationship between the degree of conversion, solubility and salivary sorption of a hybrid and a nano-filled resin composite. *Journal of Applied Oral Science* 16(2) 161-166.
- Dentsply, 2011. SDR Scientific Compendium. Retrievedonline February 1, 2014
- Didem A, Gozde, A., Nurhan, O., 2014.Comparative mechanical properties of bulk-fill, *Open J. Compos. Mater.* 4; 117–121.
- Dionysopoulos, D., Tolidis, K., Gerasimou, P., 2016. Bulk Fill Composite Resins. A Novelty in Resin-Based Restorative Materials. *ARC Journal of Dental Science* 1(2):1-3.
- Ellakwa, A., Cho, N., Lee, I.B., 2007. The effect of resin matrix composition on the polymerization shrinkage and rheological properties of experimental dental composites. *Dental Materials*;23:1229-35.
- El-Safty, S., Silikas, N., Watts, D.C., 2012, Creep Deformation of Restorative Resin-Composites Intended for Bulk-Fill Placement., *Dent Mater.*, 28(8):928-35.
- Farahat F., Daneshkazemi A.R., Hajiahmad Z., 2016. The effect of bulk depth and irradiation time on the surface hardness and degree of cure of bulk-fill composites. *Journal of Dental Biomaterial* 3(3): 284-291.
- Ferracane J.L. & Hilton T.J., 2016. Polymerization stress: is it clinically meaningful? *Dental Materials* 32(1) 1-10.
- Finan, L., Palin, W.M., Moskwa, N., McGinley, E.L., Fleming, G.J.P., 2013, The Influence of Irradiation Potential on the Degree of Conversion and Mechanical Properties of Two Bulk-Fill Flowable RBC Base Marerials, *Dent Mater.*, 29:906-912.

- Fleming, G.J.P., Awan, M., Cooper, P.R., Sloan, A.J., 2008. The potential of a resin composite to be cured to a 4 mm depth. *Dent Mater* 24: 522 – 529.
- Flury S., Hayoz S., Peutzfeldt A., Husler J., Lussi A., 2012. Depth of cure of resin composites: is the ISO 4049 method suitable for bulk fill materials. *Dent Mater* 28:521-528.
- Furness A., Tadros M.Y., Looney S.W., Rueggeberg F.A, 2014. Effect of bulk/incremental fill on internal gap formation of bulk-fill composites. *J Dent* 42:439-449.
- Gaglianone, L.A., Lima, A.F., de Araujo, LSN., Cavalcanti, A.N., Marchi, G.M., 2012. Influence of different shades and LED irradiance on the degree of conversion of composite resins. *Braz Oral Res.*26(2):165-9
- Galvao, M.R., Caldas, S.G., Bagnato, V.S., Rastelli, A.N., Andrade, M.F., 2013. Evaluation of degree of conversion and hardness of dental composites photoactivated with different light guide tips. *Eur J Dent*;7:86-93.
- Gracia, D., Yaman, P., Dennison, J., Neira, G.F., 2014, Polymerization Shrinkage and Depth of Cure of Bulk fill Flowable Composite Resin, *Oper Dent*: 39-42.
- Idriss S., Habib C., Abduljabbar T. dan Omar R., 2003. Marginal adaptation of class II resin composite restorations using incremental and bulk placement techniques: an ESEM study, *J Oral Rehab* 30: 1000-1007.
- Ilie N., Bucuta S., Draenert M., 2013. Bulk-fill Resin-based Composites: An In Vitro Assesment of Their Mechanical Performance. *Oper Dent.*, 38-5.
- Ilie, N., dan Hickel, 2011, Investigation on a Methacrylate-Based Flowable Composite Based on the SDR Technology, *Dent Mater.*, 27:348-355.
- Ilie, N., Stark, K., 2014. Curing behaviour of high-viscosity bulk-fill composites. *J Dent* ;42:977-85.
- Irawan B., 2015. Karakteristik komposit resin berkemampuan mengalir. *I J Dent* 12(1) : 36-41.
- Ivoclar Vivadent, 2013.Tetric EvoCeram Bulk Fill Scientific Documentation. Retrieved online February 1, 2014
- Juloski J, Carrabba M, Aragonese JM, 2013. Microleakage of Class II restorations and microtensile bond strength to dentin of low-shrinkage composites. *Am J Dent*;26(5):271-277.
- Kameyama, A., Haruyama, A., Asami, M., Takahashi, T., 2013, Effect of Emitted Wavelength and Light Guide Type of Irradiance Discrepancies in Hand Held Dental Curing Radiometers, *Scientific World Journal*.
- Kapoor N., Bahuguna N., Anand S., 2016. Influence of composite insertion technique on gap formation. *J Conserv Dent* 19(1): 77-81.
- Karabela, M.M., Sideridou, I.D., 2011. Synthesis and Study of Properties of Dental Resin Composites with Different Nanosilica Particles Size. *Dent Mater*; 27:825-835
- Kartikasari, A.D., 2012. Perbandingan Kebocoran Mikro Restorasi kelas I Resin Komposit Menggunakan Teknik Bulk-fill Dengan aktivasi Sonik, Tanpa Aktivasi Sonik, dan Inkremental. Jakarta: Universitas Indonesia.

- Katona A., Barrak I., 2016. Comparison of composite restoration techniques. *Interdisciplinary Description of complex systems Journal*. 14(1): 101-115.
- Kelić K., Matić S., Marović D., Klarić E., Tarle Z., 2016. Surface hardness of bulk-fill composite materials. *Acta Clin Croat* 55: 607-14.
- Kim EH, Jung KH, Son SA, Hur B, Kwon YH, Park JK, 2015. Effect of resin thickness on the microhardness and optical properties of bulk-fill resin composites. *Restor Dent Endod*;40:128-35.
- Lazarchik D.A., Hammond B.D., Sikes C.L., Looney S.W., Rueggeberg F.A., 2007. Hardness Comparison of Bulk-Filled/Transtooth and Incremental-filled / Occlusally Irradiated Composite Resins, *Prosthetic Dent.*, 98: 129-140.
- Lee, J.H., Prud'homme, R.K., Aksay, I.A., 2001, Cure Depth in Photopolymerization: Experiment and Theory, *J Mater Res*, 16(12): 3536-3544.
- Leprince JG, Palin WM, Vanacker J, Sabbagh J, Devaux J, Leloup G, 2014. Physico-mechanical characteristics of commercially available bulk-fill composites. *J Dent*. 42(8): 993–1000.
- Lombardini M., Chiesa M., Scribante A., Combo M., Poggio C., 2012. Influence of Polymerization Time and Degree of Cure of Resin Composite Determined by Vickers Hardness. *Dental Research Journal.*, 9(6): 735-740.
- Lovell LG, Newman SM, Bowman CN, 1999. The effects of light intensity, temperature, and comonomer composition on the polymerization behavior of dimethacrylate dental resins. *J Dent Res*;78:1469-1476.
- Lucey S., Lynch C.D., Ray N.J., Burke F.M., Hannihgan A., 2010. Effect of Pre-heating on the Viscosity and Surface hardness of a Resin Composite. *J of Oral Rehab.*, 37(4): 278-82.
- Mahn, E., 2013. Clinical criteria for the successful curing of composite materials. *Rev Clin Periodoncial Implatol Rehabil Oral* 6(3):148-53.
- Malhotra, N., dan Mala, K., 2010, Effect of Filler Particles on Surface Roughness of Experimental Composite Series, *J Appl Oral Sci.*, 18(1).
- Mansour K., Sada A., Sinan H., 2015. Curing depth of bulk fill composite an in vitro study. *Pak Oral & Dent J* 35(2): 270-275.
- Martim GC, Detomini TR, Schuquel IT, Radovanovic E, Pfeifer CS, Girotto EM, 2013. A urethane-based multimethacrylate mixture and its use in dental composites with combined highperformance properties. *Dent Mater*;30:155-63.
- Mobarak E, Elsayad I, Ibrahim M, El-Badrawy W, 2009. Effect of LED light-curing on the relative hardness of tooth-colored restorative materials. *Oper Dent* 2009;34:65-71.
- Moosavi H., Zeynali M., Pour Z.H., 2012. Fracture resistance of premolars restored by various types and placement techniques of resin composites. *Int J Dent*:1
- Moraes LGP., Rocha RsF., Menrgazzo L.M., Araujo E.B., Yukimitu K., Moraes JCS., 2008. Infrared spectroscopy: a tool for determination of the degree of conversion in dental composites. *J Appl Oral Sci* 16:145-149.

- Moszner, N., Fischer, U.K., Ganster, B., Liska, R., Rheinberger, V., 2008, Benzoyl Germanium Derivatives as Novel Visible Photoinitiators for Dental Materials, *Dent Mater.*, 24:901-7.
- Munoz, C., Bond, P., Munoz, J., Tan, D., 2008. Effect of Pre-Heating on Depth of Cure and Surface Hardness of Light-Polymerized Resin Composites. *American Journal of Dentistry* 21(4):215-222.
- Nadig, R.R., Bugalia, A., Usha, G., Karthik, J., Rao, R., Vedhavathi, B., 2011, Effect of Four Different Placement Techniques on Marginal Microleakage in Class II Composite Restorations: *An In Vitro Study, World Dent.*, 2(2):111-116.
- Nakamura, S., Senoh, M., Mukai, T., 1993, Double Heterostructure blue-light emitting diodes, *Japanese J of Appl Phys.*, 32:L8-L11.
- O'brien, W.J., 2002, *Dental Materials and Their Selection*, 3<sup>rd</sup> ed., USAM, Quintessence books.
- Osternack, F., Caldas, D., Rached, RSV., 2009. Impact of Refrigeration on The Surface Hardness of Hybrid and Microfilled Composite Resin. *Braz Dent J*;20(1):42-7.
- Papadogiannis D, Tolidis K, Gerasimou P, Lakes R, Papadogiannis Y, 2015. Viscoelastic properties, creep behavior and degree of conversion of bulk fill composite resins. *Dental materials* 31: 1533–1541.
- Pasril Y., Pratama W.A., 2013. Perbandingan kekuatan tekan resin komposit Hybrid menggunakan sinar Halogen dan LED. *International Dental Journal* 2(2): 83-90.
- Patel P., Shah M., Agrawal N., Desai P., Tailor K., Patel K., 2016. Comparative evaluation of microleakage of class II cavities restored with different bulk fill composite restorative system: An in vitro study. *J Res Adv Dent* 5(2): 52-62.
- Paula ABD., Tango R.N., Sinhoreti MAC., Alves M.C., 2010. Puppin Rontani RM. Effect of Thickness of Indirect Restoration and Distance from the Light-Curing Unit Tip on the Hardness of a Dual-Cured Resin Cement. *Braz Dent J.*; 21 (2): 117-122.
- Poggio, C., Lombardini, M., Gaviati, S., Chiesa, M., 2012, Evaluation of Vickers Hardness an Depth of Cure of Six Composite Resins Photo-activated with Different Polymerization Modes, *J Conserv Dent.*, 15(3):237-241.
- Radzi Z, Abu Kasim NH, Yahya NA, Abu Osman NA, Kassim NL. 2006. *Standardization of distance and angulation of light curing unit tip using distometer*. Proceedings of the 3<sup>rd</sup> Kuala Lumpur International Conference on Biomedical Engineering: 141-3.
- Qasim, A.S., Rahawi, O.S., Sultan, A.A., 2009, The Effect of In-Office Tooth Whitening on the Microhardness of Esthetic Restoration (An In-Vitro Study), *Al-Rafidain Dent*, 9:83-89.
- Ritter, A., 2007, Light Curing, *JERD*, 10:128
- Rueggeberg F.A., Caughman W.F., Curtis Jr JW., 1994. Effect of light intensity and exposure duration on cure of resin composite. *Oper Dent* 19:26-32. Schneider L.F., Pfeifer Cs., Consani S., Prahl S.A., ferracane J.L., 2008. Influence of photo initiator type on the rate of polymerization, degree of conversion, hardness and yellowing of dental resin composites. *Dent Mater* 24:1169-1177.

- Sakaguchi R.L., Powers J.M., 2012. Craig's restorative dental materials. 13 th ed., Philadelphia: Elsevier : 36, 100, 164-167, 172-179,181, 332.
- Salazar, D.C., Dennison, J., Yaman, P., 2012, Inorganic and Prepolymerized Filler Analysis of Four Resin Composites, *Oper dent.*, 38(6):201-209.
- Sarkis, E., 2012. Color change of some aesthetic dental materials: Effect of immersion solutions and finishing of their surfaces. *The Saudi Dental Journal* 24:85-89.
- Schneider, L.F.J., Cavalcante, L.M. and Silikas, N. 2010. Shrinkage Stresses Generated during Resin-Composite Applications: A Review. *J Dent Biomech.* 131630: 1-15.
- Scotti, N., Venturello, A., Borgia, FAC., Pasqualini, D., Paolino, D.S., Geobaldo, F., Berutti, E., 2013. Post-Curing Conversion Kinetics As Function Of Irradiation Time and Increment Thickness. *J Appl Oral Sci*; 21(2):190-195.
- Shortall, A.C., Palin, W.M., Burtscher, P., 2008. Refractive index mismatch and monomer reactivity influence composites curing depth. *J Dent Res*; 87: 84 – 88.
- Singla, M.G., Relhan, N., Viridi, I., 2018. Comparative Evaluation of Depth of Cure of Three High Viscosity Bulk Fill Composites versus Conventional Composite: An In Vitro Study. *International Journal of Clinical Preventive Dentistry* 14(2):145-15.
- Strassler, HE., Price, RB., 2014. Understanding light curing, Part 1. Delivering predictable and successful restorations. *Dentistry Today*;33(5):114-121
- Sulaiman, J.M.A., 2010, Analysis of Intensity in Different Light Cure Units Used in Dentistry, *IASJ*.
- Taher, N.M., 2011, Degree of Conversion and Surface Hardness of Two Nanocomposites Compared to Three Other Tooth-Colored Restorative Materials, *Pakistan Oral Dent J.*, 31(2):457-63.
- Tarle Z, Attin T, Marovic D, Andermatt L, Ristic M, Tauböck TT, 2015. Influence of irradiation time on subsurface degree of conversion and microhardness of high-viscosity bulk-fill resin composites. *Clin Oral Invest* 2015;19:831-40.
- Thiab, S.S., 2012, Influence of Light Curing Method and Curing Time on the Surface Hardness and Degree of Cure in Composite Resins, *J Babylon University.*, 2(20).
- Tiba, A., Zeller, G.G., Estrich, C.G., Hong, A., 2013, A Laboratory Evaluation of Bulk-Fill Versus Traditional Multi-Increment\_Fill Resin-Based Composites, *JADA.*, 144(10):1182-1183.
- Toh W.S., Yap A.U., & Lim S.Y., 2015. In vitro biocompatibility of contemporary bulk-fill composites. *Operative Dentistry* 40(6) 644-652.
- Van Ende A, De Munck J, Lise DP, Van Meerbeek B, 2017. Bulk-fill composites: a review of the current literature. *J Adhes Dent* 2017;19:95-109.
- Van Ende A, De Munck J, Van Landuyt KL, 2013. Bulk-filing of high C-factor posterior cavities: effect on adhesion to cavity-bottom dentin. *Dent Mater*;29(3):269-277.
- Yap, A.U.J., Pandya, M., Toh, W.S., 2016. Depth of cure of contemporary bulk-fill resin-based composites. *Dental Materials Journal* 35(3): 503–510.

- Yoshikawa, T., Burrow, M.F., Tagami, U. 2001. The Effects of Bonding System and Light Curing Method on Reducing Stress of Different C-factor Cavities. *J Adhesive Dent.* 3:177-183.
- Yoshikawa, T., Burrow, M.F., dan Tagami, J., 2001. A light curing method for improving marginal sealing and cavity wall adaptation of resin composite restorations, *Dent Mater* :17: 359-366.
- Zorzin J, Maier E, Harre S, Fey T, Belli R, Lohbauer U, Petschelt A, Taschner M, 2015. Bulk-fill resin composites: Polymerizationproperties and extended light curing. *dental materials*; 31: 293–301.