

REFERENCES

- Addy, M. and Moran, J.M., 1997, Clinical indications for the use of chemical adjuncts to plaque control: Chlorhexidine formulations, *Periodontology* 2000, 15(1): 52–54.
- Asmussen, E. and Peutzfeldt, A., 2001, Influence of pulse-delay curing on softening of polymer structures, *Journal of Dental Research*, 80(6) : 1570–1573.
- Asmussen, E., 1984, Softening of BISGMA-based polymers by ethanol and by organic acids of plaque, *European Journal of Oral Sciences*, 92(3): 257–261.
- Awliya, W.Y., 2005, The effect of mouthrinses on surface hardness and weight change of some esthetic restorative material. *Journal of the Pakistan Dental Association*, pp. 84-89.
- Balagopal, S. and Arjunker, R., 2013, Chlorhexidine: The Gold Standard Antiplaque Agent, *Journal of Pharmaceutical Sciences and Research*, 5(12): 270–274.
- Black, J. and Hastings, G.W. (eds.), 1998, *Handbook of biomaterial properties*, London: Chapman and Hall, p. 273.
- Butterworth C., Ellakwa A.E., and Shortall, A., 2003, Fibre-reinforced composites in restorative dentistry, *Dent Update*. 2003;30 : 300-306.
- Carvalho, A.A., Moreira, F. do C.L., Fonseca, R.B., Soares, C.J., Franco, E.B., Souza, J.B. de and Lopes, L.G., 2012, Effect of light sources and curing mode techniques on sorption, solubility and biaxial flexural strength of a composite resin, *Journal of Applied Oral Science*, 20(2): 246–252.
- Chow, T.W., Cheng, Y.Y. and Ladizesky, N.H., 1993, Polyethylene fibre reinforced poly(methylmethacrylate)—water sorption and dimensional changes during immersion, *Journal of Dentistry*, 21(6): 367–372.
- Collares, F.M., Rostirrolla, F.V., Macêdo, É. de O.D. de, Leitune, V.C.B. and Samuel, S.M.W., 2014, Influence of mouthwashes on the physical properties of orthodontic acrylic resin, *Brazilian Journal of Oral Sciences*, 13(3): 203–208.
- Craig, R. G. and Powers, J. M., 2002, *Restorative Dental Materials*, 11th ed., Mosby Inc., United States of America, pp. 203-205.

- Cramer, N.B., Stansbury, J.W., and Bowman, C.N., 2011, Recent advances and developments in composite dental restorative materials, *J. Dent. Res.*, 90: 402-416.
- Curtis, A.R., Shortall, A.C., Marquis, P.M. and Palin, W.M., 2008, Water uptake and strength characteristics of a nanofilled resin-based composite, *Journal of Dentistry*, 36(3) : 186–193.
- Daniel, W.W., 2008, *Biostatistics: A foundation for analysis in the health sciences*. 9th ed. United Kingdom: Wiley, John and Sons, pp. 205-206.
- de Moraes Porto, I.C., das Neves, L.E., de Souza, C.K., Parolia, A., and Barbosa dos Santos, N., 2014, A Comparative Effect of Mouthwashes with Different Alcohol Concentrations on Surface Hardness, Sorption and Solubility of Composite Resins, *Journal of Oral Health and Dental Management*, 13(2): 502-506.
- Ellakwa, A.E., Shortall, A.C. and Marquis, P.M., 2002, Influence of fiber type and wetting agent on the flexural properties of an indirect fiber reinforced composite, *The Journal of Prosthetic Dentistry*, 88(5): 485–490.
- Fernandez, A.R.A., El Araby, M., Siblini, M. and Al-Shehri, A., 2014, The effect of different types of oral mouth rinses on the hardness of Silorane-based and Nano-hybrid composites, *Saudi Journal of Oral Sciences*, 1(2): 105-109.
- Ferracane, J.L. and Berge, H.X., 1995, Fracture toughness of experimental dental composites aged in ethanol, *J Dent Res*, 74(7) : 1418–1423.
- Ferracane, J.L. and Condon, J.R., 1990, Rate of elution of leachable components from composite, *Dental Materials*, 6(4): 282–287.
- Ferracane, J.L., 2006, Hygroscopic and hydrolytic effects in dental polymer networks, *Dental Materials*, 22(3): 211–222.
- Floyd, C.J.E. and Dickens, S.H., 2006, Network structure of bis-GMA- and UDMA-based resin systems, *Journal of Dental Materials*, 22(12): 1143–1149.
- Freilich, M.A., Meiers J.C., and Duncan J.P., 2000, *Chairside Applications of FRC In: Fiber-Reinforced Composites in Clinical Dentistry*, Univ. of Connecticut, Farmington: Quintessence Pub. Co., pp. 49-70.
- Gagari, E. and Kabani, S., 1995, Adverse effects of mouthwash use, *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology*, 80(4): 432–439.

- Geurtsen, W., 1998, Substances released from dental resin composites and glass ionomer cements, *European Journal of Oral Sciences*, 106(2p2): 687–695.
- Goldberg, M., 2007, In vitro and in vivo studies on the toxicity of dental resin components: A review, *Clinical Oral Investigations*, 12(1): 1–8.
- Göpferich, A., 1996, Mechanisms of polymer degradation and erosion, *Biomaterials*, 17(2): 103–114.
- Gurgan, S., Onen, A. and Koprulu, H., 1997, *In vitro* effects of alcohol-containing and alcohol-free mouthrinses on microhardness of some restorative materials, *Journal of Oral Rehabilitation*, 24(3) : 244–246.
- Hatrick, C.D., Eakle, S.W. and Bird, W.F., 2015, *Dental materials: Clinical applications for dental assistants and dental Hygienists*, 2nd edn. United Kingdom: Elsevier Health Sciences, pp. 238-240.
- Inoue, K. and Hayashi, I., 1982, Residual monomer (*bis*-GMA) of composite resins, *Journal of Oral Rehabilitation*, 9(6): 493–497.
- Jafari, K., Hekmatfar, S., and Badakhsh, S., 2014, The effect of mouthwashes on surface hardness of dental ceramics, *J. Dent. Biomater.*, 1(1): 23-26.
- Juloski, J., Beloica, M., Goracci, C., Chieffi, N., Giovannetti, A., Vichi, A., Vulicevia, Z.R. and Ferreari, M., 2012, Shear Bond Strength to Enamel and Flexural Strength of Different Fiber-reinforced Composites, *J. Adhes. Dent.*, 14(X): 1-8.
- Kamble, V.D., Parkhedkar, R.D. and Mowade, T.K., 2012, The effect of different fiber reinforcements on flexural strength of provisional restorative resins: Anin-vitro study, *The Journal of Advanced Prosthodontics*, 4(1) : 1-6.
- Kao, E.C., 1989, Influence of food-simulating solvents on resin composites and glass-ionomer restorative cement, *Dent Mater*, 5(3) : 201–208.
- Kurtz, S.M., 2009, *The UHMWPE handbook: Ultra-high molecular weight polyethylene in total joint replacement*, 2nd ed., San Diego: Elsevier/Academic Press, p. 2.
- Lassila, L.V.J., Tanner, J., Le Bell, A.-M., Narva, K. and Vallittu, P.K., 2004, Flexural properties of fiber reinforced root canal posts, *Dental Materials*, 20(1): 29–36.
- Lin, S.P., Han, J.L., Yeh, J.T., Chang, F.C. and Hsieh, K.H., 2007, Surface modification and physical properties of various UHMWPE-fiber-

- reinforced modified epoxy composites, *Journal of Applied Polymer Science*, 104(1): 655–665.
- Mallick, P.K.K., 2007, *Fiber-reinforced composites: Materials, manufacturing, and design*. United States: Boca Raton, Florida, U.S.A.: CRC Pr I, p. 2.
- Maruo, Y., Nishigawa, G., Irie, M., Yoshihara, K., and Minagi, S., 2015, Flexural properties of polyethylene, glass and carbon fiber-reinforced resin composites for prosthetic frameworks, *Acta Odontologica Scandinavica*, 73(8): 581-587.
- McKinney, J.E. and Wu, W., 1985, Chemical softening and wear of dental composites, *Journal of Dental Research*, 64(11) : 1326–1331.
- Meyer, M.R., Friedman, R.J., Del Schutte, H. and Latour, R.A., 1994, Long-term durability of the interface in FRP composites after exposure to simulated physiologic saline environments, *Journal of Biomedical Materials Research*, 28(10): 1221–1231.
- Monaco, C., 2005, Clinical and scientific aspect of Inlay Fixed Partial Denture, *Thesis*, School of Dental Medicine, University of Siena, Italy, pp. 1-129.
- Mosquera, L.P., 2015, Fiber-Reinforced Composite Fixed Dental Prosthesis Studies Of The Materials Used As Pontics, *Thesis*, University of Turku, Finland, pp. 1-70.
- Muñoz, E. and García-Manrique, J.A., 2015, Water absorption behaviour and its effect on the mechanical properties of flax Fibre reinforced Bioepoxy composites, *International Journal of Polymer Science*, pp. 1–10.
- Murphy J., 1998, *Reinforced Plastics Handbook*, 2nd Ed., Elsevier Science Ltd., Oxford, p. 81.
- Ozer, S., Sen Tunc, E., Tuloglu, N. and Bayrak, S., 2014, Solubility of two resin composites in different Mouthrinses, *BioMed Research International*, 2014: 1–4.
- Park, R. and Jang, J., 1999, Performance improvement of carbon fiber/polyethylene fiber hybrid composites, *Journal of Materials Science*, 34(12): 2903–2910.
- Penugonda B, Settembrini L, Scherer W, Hittleman E, and Strassler H., 1994, Alcohol-containing mouthwashes: effect on composite hardness, *J of Clinical Dent*, 5(2) : 60 (Abstr.)

- Pereira, C. L., Demarco, F. F., Cenci, M. S., Osinaga, P. W. R., and Piovesan, E. M., 2003. Flexural strength of composites: Influences of polyethylene fiber reinforcement and type of composite, *Clinical Oral Investigations*, 7(2): 116–119.
- Sakaguchi, R. L., and Powers, J. M., 2012, *Craig's restorative dental materials*, 13th ed., Philadelphia, PA: Elsevier/Mosby, p. 85, 164.
- Santos, S.G. dos, Moysés, M.R., Alcântara, C.E.P. and Ribeiro, J.C.R., 2012, Flexural strength of a composite resin light cured with different exposure modes and immersed in ethanol or distilled water media, *J Conserv Dent.*, 15(4): 333-336.
- Sarrett, D.C., Coletti, D.P. and Peluso, A.R., 2000, The effects of alcoholic beverages on composite wear, *Dental Materials*, 16(1): 62–67.
- Sharafeddin F., Alavi AA., and Talei Z., 2013, Flexural strength of glass and polyethylene fiber combined with three different composites, *Journal of Dentistry Shira University of Medical Sciences*, 14(1): 13-19.
- Sideridou, I.D., Karabela, M.M., Vouvoudi, E.C. and Papanastasiou, G.E., 2007, Sorption and desorption parameters of water or ethanol in light-cured dental dimethacrylate resins, *Journal of Applied Polymer Science*, 107(1): 463–475.
- Soderholm, K.M. and Roberts, M.J., 1990, Influence of water exposure on the tensile strength of composites, *J Dent Res*, 69(12): 1812–1816.
- Strassler, H.E., 2008, *Fiber-reinforcing materials for dental resins*, Clinical materials review, Vol 4(5), pp. 1-11.
Available at: <https://www.dentalaegis.com/id/2008/05/fiber-reinforcing-materials-for-dental-resins> (Accessed: 29 May 2016).
- Suzuki, S., Saimi, Y. and Ono, T., 2005, Evaluation of a new fiber-reinforced resin composite, *Journal of Biomedical Materials Research Part B: Applied Biomaterials*, 76B(1): 184–189.
- Tanaka, K., Taira, M., Shintani, H., Wakasa, K. and Yamaki, M., 1991, Residual monomers (TEGDMA and bis-GMA) of a set visible-light-cured dental composite resin when immersed in water, *Journal of Oral Rehabilitation*, 18(4) : 353–362.
- Toedt, J., Koza, D. and Van Cleef-Toedt, K., 2005, *Chemical composition of everyday products*, United States: Greenwood Publishing Group, pp. 48-49.

- Tsitrou, E., Kelogrigoris, S., Koulaouzidou, E., Antoniadis-Halvatjoglou, M., Koliniotou-Koumpia, E. and van Noort, R., 2014, Effect of extraction media and storage time on the elution of monomers from four contemporary resin composite materials, *Toxicology International*, 21(1): 89-95.
- Vallittu, P.K. and Könönen, M., 2000, Biomechanical aspects and material properties. In: Karlsson S, Nilner K and Dahl B (eds). *A textbook of Fixed Prosthodontics. The Scandinavian Approach*. Stockholm: Förlagshuset Gothia AB, pp. 116-130.
- Vallittu, P.K., 2009, Interpenetrating polymer network (IPNs) in dental polymer and composites, in J.P. Matinlinna, K.L. Mittal KL (eds.), *Adhesion Aspects in Dentistry*, CRC Press, Boca Raton, pp. 63-74.
- Van der Weijden G.A., Timmerman M.F., Novotny A.G.A, Rosema N.A.M., Verkerk A.A.J., 2005, Three different rinsing times and inhibition of plaque accumulation with chlorhexidine, *J Clin Periodontol*, 32: 89–92.
- Van Heumen, C.C.M., Kreulen, C.M., Bronkhorst, E.M., Lesaffre, E. and Creugers, N.H.J., 2008, Fiber-reinforced dental composites in beam testing, *Dental Materials*, 24(11): 1435–1443.
- Van Noort, R., 2007, *Introduction to Dental Materials*, 3rd ed., Elsevier Health Sciences, Edinburgh, pp: 115-116.
- Vuorinen, A.M., Dyer, S.R., Lassila, L.V.J. and Vallittu, P.K., 2008, Effect of rigid rod polymer filler on mechanical properties of poly-methyl methacrylate denture base material, *Dental Materials*, 24(5): 708–713.
- Weiner, R., Millstein, P., Hoang, E. and Marshall, D., 1997, The effect of alcoholic and non-alcoholic mouthwashes on heat-treated composite resin, *Operative Dentistry*, 22(6) : 249-253.
- Willershausen B., Callaway, A., Ernst, C.P., Stender, E., 1999, The influence of oral bacteria on the surfaces of resin-based dental restorative materials - an in vitro study, *Int Dent J*, 49: 231–9.
- Xavier, A., Sunny, S., Rai, K. and Hegde, A., 2016, Repeated exposure of acidic beverages on esthetic restorative materials: An in-vitro surface microhardness study, *Journal of Clinical and Experimental Dentistry*, pp : E1-E6.
- Zhang, M. and Matinlinna, J.P., 2012, E-glass fiber reinforced composites in dental applications, *Silicon*, 4(1): 73–78.

Zhang, Y. and Xu, J., 2008, Effect of immersion in various media on the sorption, solubility, elution of unreacted monomers, and flexural properties of two model dental composite compositions, *Journal of Materials Science: Materials in Medicine*, 19(6): 2477–2483.