

DAFTAR PUSTAKA

- Abbas, A. K., Lichtman, A. H. and Pillai, S. (2015) *Celullar and Molecullar Immunology*. 8th ed. Canada: Elsevier Saunders, pp. 428-433.
- Ahmad, K. and Arafa, O. (2016), Comparing the effects of titanium alloy and chrome cobalt in removable partial denture connectors on tooth mobility , bone loss and tissue reaction', *Saudi J Dent Res*, 7(2), pp. 112–117. doi: 10.1016/j.sjdr.2016.01.001.
- Anusavice, K.J., Shen, C., and Rawls, H. R. (2013) *Phillips Science of Dental Materials*. 12th ed. St. Louis: Elsevier, pp: 638
- Arash, V., Keikhaee, F., Rabiee, S. M., Rajabnia, R., Khafri, S., Tavanafar, S. (2016) 'Evaluation of Antibacterial Effects of Silver-Coated Stainless Steel Orthodontic Brackets', *J Dent (Tehran)*, 13(1), pp. 49–54.
- Ardhy, S., Gunawarman and Affi, J. (2015), Perilaku Korosi Titanium dalam Larutan Modifikasi Saliva', *Jurnal Mekanikal*, 6(2), pp. 585–593.
- Behl, Bharat., Papageorgiou, Iraklis., Brown, Christopher., Hall, Richard., Tipper, Joanne L., Fisher, John., Ingham, Eileen., (2013), Biological Effects of Cobalt-Chromium Nanoparticles and Ions on Dural Fibroblasts and Dural Epithelial Cells', *Biomaterials*. Elsevier Ltd, 34(14), pp. 3547–3558. doi: 10.1016/j.biomaterials.2013.01.023.
- Berniyanti, T. (2018) *Biomarker Toksisitas: Paparan Logam Tingkat Molekuler*. Surabaya: Airlangga University Press, pp: 76-91.
- Brunetto, P. S., Slenters, T. V. and Katharina, M. F. (2011) 'In Vitro Biocompatibility of New Silver(I) Coordination Compound Coated-Surfaces for Dental Implant Applications', *Materials*, 4(2), pp. 355–367. Available at: <https://doi.org/10.3390/ma4020355>.
- Brunner, T. J., Wick, P., Manser P., Spohn, P., Grass, R. N., limbach, L K., Bruinink, A., Stark, W. J. (2006) 'In Vitro Cytotoxicity of Oxide Nanoparticles: Comparison to Asbestos, Silica, and The Effect of Particle Solubility', *Environ Sci Technol*, 40, pp. 4374–81.
- Cameron, S. J., Hosseinian, F., dan Willmore, W. G., (2018), A Current Overview of the Biological and Cellular Effects of Nanosilver, *International Journal of Molecular Sciences*, 19(2030), p. 1- 40.
- Carolina, de A. L. C., Ana L. C., Carlos, Eduardo V., Raphael, F. S., Eunice, Teresinha G. (2012) 'Cytotoxicity of Denture Base and Hard Chairside Reline Materials: A Systematic Review', *J Prosthet Dent*, 107(2), pp. 114–27. doi: [https://doi.org/10.1016/s0022-3913\(12\)60037-7](https://doi.org/10.1016/s0022-3913(12)60037-7).
- Carr, A. B. and Brown, D. T. (2011) *McCracken's Removable Partial Prosthodontics*. 12th ed. St. Louis, Missouri 63043: Elsevier Mosby, pp: 2-7, 29, 32, pp. 107-108.

- Chakravarthy, A. K., Sharif, K. Y., Mallikarjun, M., Babu, K Mahesh., Gautham, P. (2015) 'Tooth Supported Overdenture with Stainless Steel Mesh Reinforced', *SRM Journal of Research in Dental Sciences*, 6(June), pp. 129–133. doi: 10.4103/0976-433X.155477.
- Corrêa, J. M., Mori, Matsuyoshi., Sanches, H. L., Dibo, Adriana., Edgard, P., Andrea, Isis., Pola, Venturini. (2015) 'Silver Nanoparticles in Dental Biomaterials', *Int J Biomater*, doi: 10.1155/2015/485275.
- Cristina K., Al-Ahj L. P., Oliviera R. C., Carolina . (2014) 'Cell Density and Solvent are Critical Parameters Affecting Formazan Evaluation on MTT Assay', *Braz Arch Biol Technol*, 5(3), pp. 381-385.
- Devasconcellos, P., Bose, S., Beyenal, H., Bandyopadhyay, A., Zirkle, L., 2012, Antimicrobial Particulate Silver Coatings on Stainless Steel Implants for Fracture Management, *Mater Sci Eng C*, 32(5), p.1112-1120.
- Doherty, P. (2009) 'Inflammation, Carcinogenicity, and Hypersensitivity', in Narayan, R. (ed.) *Biomed Mater*. 1st edn. Springer US, pp. 210–212.
- Driscoll, C. F. *et al.* (2017) 'The Glossary of Prosthodontic Term: Ninth Edition', *J Prosther Dent*, 117(5s), pp. 1–105. doi: 10.1016/j.prosdent.2016.12.001.
- Ebadian, B. *and* Mosharraf, R. (2015) 'Evaluation of Tissue Reaction to Some Denture-base Materials : An Animal Study', *J Contemp Dent Pract.*, 9(4): pp. 67-74. doi: 10.5005/jcdp-9-4-67.
- Eguia, A. *and* Arakistain, A. (2020) 'Candida albicans biofilms on different materials for manufacturing implant abutments and prostheses', *Med Oral Patol Oral Cir Bucal*, 25(1). doi: 10.4317/medoral.23157.
- Eliades, T. *and* Athanasiou, A. E. (2002) 'In Vivo Aging of Orthodontic Alloys : Implications for Corrosion Potential , Nickel Release , and Biocompatibility', *Angle Orthod*, 73(3).
- Fotovvati, B., Namdari, N., Dehghanghadikolaie, A., 2019, On Coating Techniques for Surface Protection: A Review, *J Manuf Mater Process*, 3(28), p. 1-22.
- Freshney R.I. (2010), Database of misidentified cell lines, *Int J Cancer*, 126(1):302.
- Geurtsen, W. (2002) 'Biocompatibility of Dental Casting alloy', *Critical Review Oral Biol Med*, 13(1), pp. 71–84.
- Hafizi, I., Widjijono, W. *and* Soesatyo, M. H. N. E. (2016) 'Penentuan Konsentrasi Stainless Steel 316L dan Kobalt Kromium Rermanium GM-800 pada Uji GPMT untuk Fiksasi Tulang', *Maj Ked Gi Ind*, 2(3), pp. 121–127.
- Hisbergues, M., Vendeville, S. *and* Vendeville, P. (2008) 'Review Zirconia : Established Facts and Perspectives for a Biomaterial in Dental Implantology', *J Biomed mater Res Part B Appl Biomater*, pp. 519–529. doi: 10.1002/jbm.b.31147.

- Hosoki, M., Bando, E., Asaoka, K., Takeuchi, H., Nishigawa, K. (2009) 'Assessment of Allergic Hypersensitivity to Dental Materials', *Biomed Mater Eng*, 19(1), pp. 53–61. doi: <https://doi.org/10.3233/bme-2009-0563>.
- ISO 10993-5, 2009, Biological evaluation Of Medical Devices- Part 5: Test for In Vitro Cytotoxicity, International Organization for Standarization, Geneva, p.30-4.
- ISO 22674, 2006, Mettalic materials for fixed and removable restorations and appliances, International Organization for Standarization, Geneva, pp. 1-36
- Imran, Y., Raza, M., Khan, M., Yousaf, H. (2017) 'Effect Of Cobalt-Chromium Alloy Re-Use In Dentistry On Its Castability Value', *J Ayub med Coll Abbottabad*, 29(2), pp. 270–274.
- Ivanova, E. P., Bazaka, K. and Crawford, R. J. (2014) *New Functional Biomaterials for Medicine and Healthcare*. 1st ed. Woodhead Pubishing, pp: 123-124.
- Jamuna-Thevi, K., Bakar, S. A., Ibrahim, S., Shahab, N., Toff, M. R. M. (2011) 'Quantification of Silver Ion Release, In Vitro Cytotoxicity and Antibacterial Properties of Nanostructured Ag Doped TiO₂ Coating on Stainless Steel Deposited by RF Magnetron Sputtering', *Vacuum*, 86, pp. 235–241.
- Jura, C. O., Tendean, L. E. N. and Anindita, P. S. (2015) Jumlah Ion Kromium (Cr) dan Nikel (Ni) Kawat Ortodontik Stainless Steel Yang Terlepas, *Jurnal Kedokteran Gigi, Manado*, pp. 2–5.
- Kalluri, R., (2016), 'The Biology and Function of Fibroblast in Cancer', *Nature reviews Cancer*, 16(9), pp. 219-223.
- Kamikawa, Yoshiaki., Hirabayashi, Daisuke., Nagayama, Tomohiro., Fujisaki, Jyunichi., Hamada, Tomofumi., Sakamoto, Ryoichi., Kamikawa, Yasuko., Sugihara, Kazumasa. (2014) 'In Vitro Antifungal Activity against Oral Candida Species Using a Denture Base Coated with Silver Nanoparticles', *J Nanomater*, 2014, pp. 1–7.
- Kanani, N., 2004, *Electroplating-Basic Principles, Processes and Practice*, Elsevier, p.219-223.
- Kim, E., Kim, M., Leesungbok, R., Lee, S., Ahn, S. (2016) 'Co – Cr Dental Alloys Induces Cytotoxicity and Inflammatory Responses Via Activation of Nrf2 / Antioxidant Signaling Pathways in Human Gingival Fibroblasts and Osteoblasts', *Dent Mater J*, pp. 1–12. doi: 10.1016/j.dental.2016.09.017.
- Kitagawa, M., Murakami, S., Akashi, Y., Oka, H., Shintani, T., Ogawa, I., Inoue, T., Kurihara, H., 2019, Current Status of Dental Metal Allergy in Japan, *J Prosthodont Res*, 63(3), p. 309-312.
- Kuhta, M., Pavlin, D., Slaj, M., Varga, S., Lapter-varga, M. (2009) 'Type of Archwire and Level of Acidity ', *The EH Angle Education and Research Foundation, Inc*. doi: 10.2319/083007-401.1.
- Kumar, V., Abbas, A. K. and Aster, J. C. (2014) *Robbins and Cotran Pathologic Basis of Disease*. 9th ed. Philadelphia: Elsevier Saunders, pp: 132.

- Kurniawati, Y., Adi, S., Achadiyani., Suwarsa, O., Erlangga D., Putri, T., 2015, Kultur Fibroblas: Penelitian Pendahuluan, MKA, 38(1).
- Kusnul, Z. (2012) 'Efek Sitotoksik dan Antiproliferasi Ekstrak Propolis terhadap Kultur Sel heLa Melalui Penghambatan Aktifitas NFKB', *Jurnal Ilmu Kefarmasian Indonesia*, 10(2).
- Levinson, S. and Warren, M. (2006) *Review of Medical Microbiology and immunology*. 9th ed. New York: McGraw-Hill Lange, pp: 410-411.
- Liang, R., Xu, Y., Zhao, M., Han, G., Li, J., Wu, W., Dong, M. (2020) 'Properties of Silver Contained Coatings on CoCr Alloys Prepared by Vacuum Plasma Spraying', *Mater Sci Eng C*. Elsevier, 106 (December 2018), p. 110156. doi: 10.1016/j.msec.2019.110156.
- Loney, R. W. (2011) *Removable Partial Denture Manual Removable Partial Denture Manual*, pp: 1, 59, 64.
- Lubis, M., Ginting, M. H. S., Kodir, K., Tanti, I., Odang, R. W. (2017) 'Shear Force Bond Analysis between Acrylic Resin Bases and Retention Framework (Open- and Mesh- Type)', *The 1st Physics and Technologies in Medicine and Dentistry Symposium*.
- Lucchetti, M. C., Fratto, G., Valeriani, F., Vittori, E. D., Giampaoli, S., Papetti, P., Spica, V. R., Manzon, L. (2019) 'Cobalt-Chromium Alloys in Dentistry : An Evaluation of Metal Ion Release', *J Prosthet Dent*. 114(4), pp. 602–608. doi: 10.1016/j.prosdent.2015.03.002.
- Lyon, S.B., 2010, Corrosion on Noble Metals, dalam Richardson, T., *Shreir's Corrosion*, Elsevier science, London, Hal:2205 – 2223.
- Maria Kassapidou, Victoria Franke Stenport, L. H. and C. B. J. (2017) 'Cobalt-Chromium Alloys in Fixed Prosthodontics in Sweden', *Acta Biomater Odontol Scand*, 3(1), pp. 53–62.
- McCabe, J. F. and Walls, A. W. G. (2008) *Applied Dental Materials*. 9th ed. Singapore: Blackwell Publishing. 8: 83.
- McGinley, E. L., Dowling, A. H., Moran, G. P., Fleming, G. J. P. (2013) 'Influence of S. mutans on Base-Metal Dental Casting Alloy Toxicity', *J Dent Res*, 92(1), pp. 92–97. doi: 10.1177/0022034512466262.
- Meeran, Z., Besinis, A., De peralta, T., Handy, R. D., 2018, Antifungal Properties and Biocompatibility of Silver Nanoparticle Coating on Silicone Maxillofacial Prostheses in Vitro, *J Biomed Mater Res - Part B Appl Biomater*, 106 (3), p. 1038-1051.
- Mengatto, C. M., Marchini, L., Bernardes, L., Gomes, S. C., Silva, A. M., Rizzatti-Barbosa, C. M. (2015) 'Partial Denture Metal Framework may Harbor Potentially Pathogenic Bacteria', *J Adv Prosthodont*, 7.
- Mescher, A. L. (2013) *Junqueira's Basic Histology: Text and Atlas*. 13th ed. McGraw-Hill Education, pp: 45.

- Minanga, M. A., Anindita, P. S. and Juriatri (2016) 'Pelepasan Ion Nikel dan Kromium Braket Ortodontik Stainless Steel yang Direndam dalam Obat Kumur', *PHARMACON Jurnal Ilmiah Farmasi – UNSRAT*, 5(1), pp. 135–141.
- Moharamzadeh, K., Noort, R. V., Brook, I. M., Scutt, A. M. (2007) 'Cytotoxicity of Resin Monomers on Human Gingival Fibroblasts and HaCaT Keratinocytes', *Dent Mater*, 23, pp. 40–44. doi: 10.1016/j.dental.2005.11.039.
- Monteiro, D. R., Gorup, L. F., Takamiya, A. S., Camargo, E. R., Colla, A., Filho, R., Barbosa, D. B. (2012) 'Silver Distribution and Release from an Antimicrobial Denture Base Resin Containing Silver Colloidal Nanoparticles', *J Prosthodont*, 21, pp. 7–15. doi: 10.1111/j.1532-849X.2011.00772.x.
- Murdiyanto, D. (2017) 'Sitotoksisitas Non Dental Glass Fiber Reinforced Composite Terhadap Sel Fibroblas Metode Methyl Tethrazolium Test', *Jurnal Ilmu Kedokteran Gigi*, 1(1), pp. 45–51.
- Nicholson, JW. 2002. *The Chemistry of Medical and Dental Materials*. Cambridge: Royal Society of Chemistry.
- Nilforoushzhadeh, M. A., Reza, H., Ashtiani, A., Jaffary, F., Jahangiri, F., Nikkhah, N., Mahmoudbeyk, M., Fard, M., Ansari, Z., Zare, S. (2017) 'Dermal Fibroblast Cells: Biology and Function in Skin Regeneration', *Journal of Skin and Stem Cell*, 4(2). doi: 10.5812/jssc.69080.Review.
- Nirwana, I., munadziroh, E., Yogiartono, R. M., Thiyagu, C., Ying, C. S., Dinaryanti, A., 2021, Cytotoxicity and Proliferation Evaluation on Fibroblast After Combining Calcium Hydroxide and Ellagic Acid, *J Adv Pharm Technol Res*, 12(1), p.27-31.
- Peter, T., Thomas, W., Gabriele, R., Burkhard, S., Marc, T. (2016) 'Influence of Surface Coating on Metal Ion Release: Evaluation in Patients with Metal Allergy', *Orthopedics*, 39, pp. 24–30. doi: <https://doi.org/10.3928/01477447-20160509-08>.
- Pham, V., Jang, T., Jung, H., Kim, H., Koh, Y. (2012) 'Creation of Nanoporous Tantalum (Ta)-Incorporated Titanium (Ti) Surface onto Ti Implants by Sputtering of Ta in Ar Under Extremely High Negative Substrate Biases', *J Mater Chem*, 22, pp. 24798–24804. doi: 10.1039/c2jm35536a.
- Phoenix RD, Cagna DR, D. C. (2008) *Stewart's Clinical Removable Partial Prosthodontics*. 4th ed. Canada: Quintessence Publishing Co, Inc, pp: 52-53.
- Potner, R. (2007) *Animal Cell Biotechnology: Methods and Protocols*. 2nd ed. Totowa, New Jersey: Humana Press, pp: 175.
- Renita, S., Rajendran, S. and Chattree, A. (2017) 'Influence of Artificial Saliva on the Corrosion Behavior of Dental Alloys: A review', *Indian J Adv Chem Sci*, 4(4), pp. 478-483.

- Ronald, L., Sakaguchi and John M, P. (2011) *Craig's Restorative Dental Materials*. 13th ed. Edited by M. E. Inc. Philadelphia, pp: 127, 229.
- Rosenstiel, S, Land, M. and Fujimoto, J. (2006) *Contemporary Fixed Prosthodontics*. 4th ed. St. Louis, Missouri: Mosby Elsevier, pp: 590.
- Sabalaiuskas, V., Rutkunas, V. and Puriene, A. (2011) 'In Vitro Evaluation of Cytotoxicity of Permanent Prosthetic Materials', *Stomatologija, Baltic Dental and Maxillofacial Journal*, 13: (75-80).
- Sahinturk, V., Kacar, S., Vejselova, D., Kutlu, H. M. (2018) 'Acrylamide Exert its Cytotoxicity in NIH/3T3 Fibroblast Cells by Apoptosis', *Toxicology and Industrial Health*, 34(7), pp: 481-489.
- Salaie, R. N., Besinis, A., Le, H., Tredwin, C., Handy, R. D., 2020, The Biocompatibility of Silver and Nanohydroxyapatite Coatings on Titanium Dental Implants with Human Primary Osteoblast Cells, *Mater Sci Eng C*, p. 107.
- Satphaty, B., Jena, S., Das, S., Das, K., 2021, A comparative study of electrodeposition routes for obtaining silver coatings from a novel and environment-friendly thiosulphate-based cyanide-free electroplating bath, *Surf Coat Technol*, 424:126780.
- Schlesinger, M. and Paunovic, M. (2011) *Modern Electroplating*. 5th ed. New Jersey: John Wiley & Sons, Inc, pp: 131-138.
- Schmalz, G. (2004) 'Metal Content of Saliva of Patients with and without Metal Restorations', *Clin Oral Invest*, pp. 238–242. doi: 10.1007/s00784-004-0281-4.
- Schmalz, G. and Arenholt, B. (2009) Biocompatibility of dental materials. Berlin: Springer International Publishing, pp: 1.
- Schmalz, G. and Garhammer, P. (2002) 'Biological Interactions of Dental Cast Alloys with Oral Tissues', *Dental Materials*, 18, pp. 396–406.
- Shahneh, F. Z., Valiyari, S., Azadmehr, A., Hajiaghaee, R. (2013) 'Inhibition of Growth and Induction of Apoptosis in Fibrosarcoma Cell Lines by Inhibition of Growth and Induction of Apoptosis in Fibrosarcoma Cell Lines by *Echinophora platyloba* DC: In Vitro Analysis', *Adv Pharm Sci*. doi: 10.1155/2013/512931.
- Shen, X., Zhang, Y., Xiao, F., Zhu, J., Zheng, X. (2017) 'Effects on Cytotoxicity and Antibacterial Properties of the Incorporations of Silver Nanoparticles into the Surface Coating of Dental Alloys', *Journal of Zhejiang University-SCIENCE B (Biomedicine & Biotechnology)*, 18(7), pp. 615–625.
- Siddharth, R., Gautam,R., Chand,P., Agrawal,K.K., Singh,R.D., Singh,B.P., 2015, Quantitative analysis of leaching of different metals in human saliva from dental casting alloys : An *in vivo* study, *J Indian Prosthodont Soc*, 15:206-10.
- Sittampalam, C. N. (2004) *Assay Guidance Manual*. Eli Lilly and the National Center for Advancing Translational Sciences, pp: 759.

- Sun, H., Brocato, J., Costa, M., 2015, Oral chromium exposure and toxicity, *Curr Environ Health Rep.*, 2(3):295:303.
- Tahmassebi, J. F., Duggal, M. S. and Curzon, M. E. J. (2006) ‘Soft drinks and dental health : A review of the current literature’, *J Dent*, 34, pp. 2–11.
- Tenggara, S., Ismiyati, T. and Indrastuti, M. (2016) Pengaruh Metal Primer dan Jenis Semen Resin terhadap Kekuatan Geser Perlekatan Logam Nikel-Kromium Copping Gigi Tiruan Cekat, *J Ked Gi*, 7(2), pp. 165–170.
- Toshikazu, T. 1999. Antimicrobial Agent Composed of Silica-gel with Silver Complex; Ginsakutai shirikageru kokinzai, *Inorganic Materials*, Vol (6):283,pp. 505-511.
- Wicaksono, B. P. (2018) Pengaruh Ketebalan Pelapis Silver Terhadap Konsentrasi Pelepasan Ion Nikel Dan Kromium Pada Logam Campur Kobalt Kromium Remanium® GM 800 Sebagai Bahan Mini Implant Perawatan Ortodontik. Universitas Gadjah Mada Yogyakarta: Tesis, Yogyakarta, pp: 45.
- Wardaningrum, C, A. (2022) Pengaruh Ketebalan Pelapis Perak PADA logam Paduan Nikel Kromium Sebagai Bahan Gigi Tiruan Cekat Terhadap Sitotoksitas. Universitas Gadjah Mada Yogyakarta:Tesis, Yogyakarta.
- Yan, H., Afroz, S., Dalanon, J., Goto, N., Hosoki, M., Matsuka, Y. (2018) ‘Metal Allergy Patient Treated by Titanium Implant Denture : A Case Report with at least 4-year follow-up’, *Clinical Case Reports published by John Wiley & Sons Ltd.*, (June), pp. 1972–1977. doi: 10.1002/ccr3.1753.
- Yang, L., Li, C., Yang, H., Wei, D., Zhang, X., Wen, X., Sun, H. 2018, Biocompatible Silver Nanoparticles-Modified Natural Diatomite with Anti-Infective Property, *J Nanomater*, pp. 1-8.
- Zamulaeva, E., Sheveyko, A. N., Potanin, A., Zhitnyak, I., Gloushankova, N. A., Sukhorukova, I. V., Shvindina, N. V., Ignatov, S. G., Levashov, E. A., Shtanskya, D. V. (2018) ‘Comparative Investigation of Antibacterial yet Biocompatible Ag-doped Multicomponent Coatings Obtained by Pulsed Electrospark Deposition and its Combination with Ion Implantation’, *Ceramics International*, 44(4), pp. 3765–3774. Available at: <https://doi.org/10.1016/j.ceramint.2017.11.160>.
- Zhang, Y., Chen, Y., Huang, L., Chai, Z., Shen, L., Xiao, Y. (2017) ‘The Antifungal Effects and Mechanical Properties of Silver Bromide / Cationic Polymer Nano-Methacrylate Based Dental Resin’, *Scientific Reports*. Springer US, 7(November 2016), pp. 1–13. doi: 10.1038/s41598-017-01686-4.
- Zhang, H., Xue, X., 2019, The research progress on corrosion and protection of silver layer, *SN applied sciences*, 1:464.
- Zor, A., Ünal, İ. H., Gökergil, H.M., 2011, Investigation of corrosion behavior of silver coated brass in acidic solutions, *Prot. Met. Phys. Chem. Surf.*, 47(6): 813 – 820.