

DAFTAR PUSTAKA

- AOAC (2023) ‘Guidelines for Standard Method Performance Requirements’, *Official Methods of Analysis of AOAC INTERNATIONAL* [Preprint]. Available at: <https://doi.org/10.1093/9780197610145.005.006>.
- Bedair, T.M., ElNaggar, M.A., Joung, Y.K., dan Han, D.K. (2017) ‘Recent advances to accelerate re-endothelialization for vascular stents’, *Journal of Tissue Engineering*, 8, pp. 1–14. Available at: <https://doi.org/10.1177/2041731417731546>.
- Birgelen, C., Basalus, M.W.Z, Tandjung, K., Houwelingen, G., Stoel, M. G., Louwerenburg, W., Linssen, G.C.M., Said, S.A.M., Kleijne, A.W.J., Sen, H., Lowik, M.M., dan Palen, J. (2012) ‘A randomized controlled trial in second-generation zotarolimus-eluting resolute stents versus everolimus-eluting Xience v stents in real-world patients: The TWENTE trial’, *Journal of the American College of Cardiology*, 59(15), pp. 1350–1361. Available at: <https://doi.org/10.1016/j.jacc.2012.01.008>.
- Buccheri, D. Piraino, D., Andolina, G., dan Cortese, B. (2016) ‘Understanding and managing in-stent restenosis: A review of clinical data, from pathogenesis to treatment’, *Journal of Thoracic Disease*, 8(10), pp. E1150–E1162. Available at: <https://doi.org/10.21037/jtd.2016.10.93>.
- Byrne, R.A. Kastrati, A., Kufner, S., Massberg, S., Birkmeier, K.A., Laugwitz, K., Schulz, S., Pache, J., Fusaro, M., Seyfarth, M., Schomig, A., dan Mehilli, J. (2009) ‘Randomized, non-inferiority trial of three limus agent-eluting stents with different polymer coatings: The Intracoronary Stenting and Angiographic Results: Test Efficacy of 3 Limus-Eluting Stents (ISAR-TEST-4) Trial’, *European Heart Journal*, 30(20), pp. 2441–2449. Available at: <https://doi.org/10.1093/eurheartj/ehp352>.
- Chen, C., Yao, C., Yang, J., Luo, D., Kong, X., Chung, S., dan Lee, I. (2017) ‘Biomimetic apatite formed on cobalt-chromium alloy: A polymer-free carrier for drug eluting stent’, *Colloids and Surfaces B: Biointerfaces*, 151, pp. 156–164. Available at: <https://doi.org/10.1016/j.colsurfb.2016.12.021>.
- Chen, M.C. Liang, H., Chiu, Y., Chang, Y., Wei, H., dan Sung, H. (2005) ‘A novel drug-eluting stent spray-coated with multi-layers of collagen and sirolimus’, *Journal of Controlled Release*, 108(1), pp. 178–189. Available at: <https://doi.org/10.1016/j.jconrel.2005.07.022>.
- De Clercq, Schelfhout, K.C., Bracke, M., De Wever, O., Bockstal, M., Ceelen, W., Remon, J.P., dan Vervaet, C. (2016) ‘Genipin-crosslinked gelatin



- microspheres as a strategy to prevent postsurgical peritoneal adhesions: In vitro and in vivo characterization', *Biomaterials*, 96, pp. 33–46. Available at: <https://doi.org/10.1016/j.biomaterials.2016.04.012>.
- Costa, R.A., Lansky, A.J., Abizaid, A., Mueller, R., Tsuchiya, Y., Mori, K., Cristea, E., Leon, M.B., Sousa, J.E., Schmidt, T., Hauptmann, K.E., dan Grube, E. (2006) 'Angiographic Results of the First Human Experience With the Biolimus A9 Drug-Eluting Stent for De Novo Coronary Lesions', *American Journal of Cardiology*, 98(4), pp. 443–446. Available at: <https://doi.org/10.1016/j.amjcard.2006.02.051>.
- Freixo, C. Ferreira, V., Martins, J., Almeida, R., Caldeira, D., Rosa, M., Costa, J., dan Ferreira, J. (2020) 'Efficacy and safety of sirolimus in the treatment of vascular anomalies: A systematic review', *Journal of Vascular Surgery*, 71(1), pp. 318–327. Available at: <https://doi.org/10.1016/j.jvs.2019.06.217>.
- Galløe, A.M., Kelbæk, H., Thuesen, L., Hansen, H.S., Ravkilde, J., Hansen, P.R., Christiansen, E.H., Abildgaard, U., dan Stephansen, G. (2017) '10-Year Clinical Outcome After Randomization to Treatment by Sirolimus- or Paclitaxel-Eluting Coronary Stents', *Journal of the American College of Cardiology*, 69(6), pp. 616–624. Available at: <https://doi.org/10.1016/j.jacc.2016.11.055>.
- Golas, A. Yeh, C.J., Pitakjakpipop, H., dan Siedlecki, C.A., (2013) 'A comparison of blood factor XII autoactivation in buffer, protein cocktail, serum, and plasma solutions', *Biomaterials*, 34(3), pp. 607–620. Available at: <https://doi.org/10.1016/j.biomaterials.2012.09.034>.
- Gorbet, M.B. and Sefton, M. V. (2004) 'Biomaterial-associated thrombosis: Roles of coagulation factors, complement, platelets and leukocytes', *Biomaterials*, 25(26), pp. 5681–5703. Available at: <https://doi.org/10.1016/j.biomaterials.2004.01.023>.
- Gregory, C.R., Huang, X., Pratt, R.E., Dzau, V.J., Shorthouse, R., Billingham, M.E., dan Morris, R.E. (1995) 'Treatment With Rapamycin And Mycophenolic Acid Reduces Arterial Intimal Thickening Produced By Mechanical Injury And Allows Endothelial Replacement', *Transplantation*, 59(5), pp. 655–661.
- Guna, H.P., Darsin, M. and Rosyadi, A.A. (2019) 'Optimasi kekilapan pada pengecatan pelat St37 dengan metode respon permukaan (Optimization of shine in St37 plate painting with the response surface method)', *Jurnal Polimesin*, 17(2), pp. 37–44. Available at: <http://e-jurnal.pnl.ac.id/index.php/polimesin/article/view/938>.
- Hecker, J.F. and Scandrett, L.A. (1985) 'Roughness and thrombogenicity of the outer surfaces of intravascular catheters', *Journal of Biomedical Materials*

Research, 19(4), pp. 381–395. Available at:
<https://doi.org/10.1002/jbm.820190404>.

Hwang, Y.J., Granelli, J. and Lyubovitsky, J. (2012) ‘Effects of zero-length and non-zero-length cross-linking reagents on the optical spectral properties and structures of collagen hydrogels’, *ACS Applied Materials and Interfaces*, 4(1), pp. 261–267. Available at: <https://doi.org/10.1021/am2013147>.

ICH (2014) ‘International Conference on Harmonisation’, *Encyclopedia of Toxicology: Third Edition*, 2(June 1995), pp. 1070–1072. Available at: <https://doi.org/10.1016/B978-0-12-386454-3.00861-7>.

Illner, S. Kohse, S., Michaelis, C., Reske, T., Eickner, T., Schmitz, K., dan Grabow, N. (2018) ‘In vitro study of sirolimus release from non-woven PLLA matrices’, *Current Directions in Biomedical Engineering*, 4(1), pp. 591–594. Available at: <https://doi.org/10.1515/cdbme-2018-0142>.

Joner, M. Finn, A.V., Farb, A., Mont, E.K., Kolodgie, F.D., Ladich, E., Kutys, R., Skorija, K., Gold, H.K., dan Virmani, R. (2006) ‘Pathology of Drug-Eluting Stents in Humans. Delayed Healing and Late Thrombotic Risk’, *Journal of the American College of Cardiology*, 48(1), pp. 193–202. Available at: <https://doi.org/10.1016/j.jacc.2006.03.042>.

Kasoju, N. Nguyen, L.T.B., Padalhin, A.R., Dye, J.F., Cui, Z., dan Ye, H. (2017) ‘Techniques for modifying biomaterials to improve hemocompatibility’, *Hemocompatibility of Biomaterials for Clinical Applications: Blood-Biomaterials Interactions*, pp. 191–220. Available at: <https://doi.org/10.1016/B978-0-08-100497-5.00015-X>.

Kim, J.H. Ko, N.R., Jung, B. dan Kwon, I.K. (2016) ‘Development of a novel dual PLGA and alginate coated drug-eluting stent for enhanced blood compatibility’, *Macromolecular Research*, 24(10), pp. 931–939. Available at: <https://doi.org/10.1007/s13233-016-4130-5>.

Kolandaivelu, K., Swaminathan, R., Gibson, W.J., Kolachalama, V.B., Nguyen-Ehrenreich, K., Giddings, V.L., Coleman, L., Wong, G.K., dan Edelman, E.R. (2011) ‘Stent thrombogenicity early in high-risk interventional settings is driven by stent design and deployment and protected by polymer-drug coatings’, *Circulation*, 123(13), pp. 1400–1409. Available at: <https://doi.org/10.1161/CIRCULATIONAHA.110.003210>.

León-López, A., Morales, A., Martínez, V.M., Vargas-Torres, A., Zeugolis, D.I., dan Aguirre, G. (2019) ‘Hydrolyzed collagen-sources and applications’, *Molecules*, 24(22), pp. 1–16. Available at: <https://doi.org/10.3390/molecules24224031>.

Lin, Q., Yan, J., Qiu, F., Song, X., Fu, G., dan Ji, J. (2011) ‘Heparin/collagen



- multilayer as a thromboresistant and endothelial favorable coating for intravascular stent', *Journal of Biomedical Materials Research - Part A*, 96 A(1), pp. 132–141. Available at: <https://doi.org/10.1002/jbm.a.32820>.
- Marx, S.O., Jayaraman, T., Go, L.O., dan Marks, A.R. (1995) 'Rapamycin-FKBP inhibits cell cycle regulators of proliferation in vascular smooth muscle cells', *Circulation Research*, 76(3), pp. 412–417. Available at: <https://doi.org/10.1161/01.res.76.3.412>.
- Morice, M.C., Serruys, P.W., Sousa, J.E., Fajadet, J., Hayashi, E.B., Perin, M., Colombo, A., Schuler, G., Barragan, P., Guagliumi, G., Molnar, F., dan Falotico, R. (2002) 'A Randomized Comparison of A Sirolimus-Eluting Stent with A Standard Stent for Coronary Revascularization', *The New England journal of medicine*, 346(23), pp. 1773–1780. Available at: <https://www.ncbi.nlm.nih.gov/pubmed/12050336>.
- Moses, J.W., Leon, M.B., Popma, J.J., Fitzgerald, P.J., Holmes, D.R., O'Shaughnessy, C., Caputo, R.P., Kereiakes, D.J., Williams, D.O., Teirstein, P.S., Jaeger, J.L., dan Kuntz, R.E. (2003) 'Sirolimus-Eluting Stents versus Standard Stents in Patients with Stenosis in a Native Coronary Artery', *New England Journal of Medicine*, 349(14), pp. 1315–1323.
- Mu, C., Li, D., Lin, W., Ding, Y., dan Zhang, G. (2007) 'Temperature Induced Denaturation of Collagen in Acidic Solution', *Biopolymers*, 85(4), pp. 392–406. Available at: <https://doi.org/10.1002/bip>.
- Pleva, L., Kukla, P., and Hlinomaz, O. (2018) 'Treatment of coronary in-stent restenosis: A systematic review', *Journal of Geriatric Cardiology*, 15(2), pp. 173–184. Available at: <https://doi.org/10.11909/j.issn.1671-5411.2018.02.007>.
- Rahmitasari, F. and Sularsih (2019) 'Agen Crosslink dalam Pembuatan Biomimetic Scaffold Sebagai Material Rekayasa Jaringan Tulang', *Jurnal Material Kedokteran Gigi*, 2(8), pp. 65–71. Available at: <https://doi.org/10.32793/jmkg.v8i2.344>.
- Raval, A., Parikh, J. and Engineer, C. (2011) 'Mechanism and in vitro release kinetic study of sirolimus from a biodegradable polymeric matrix coated cardiovascular stent', *Industrial and Engineering Chemistry Research*, 50(16), pp. 9539–9549. Available at: <https://doi.org/10.1021/ie102163z>.
- Sareło, P., Sobieszczanska, B., Wysokinska, E., Gaosior, M., Kalas, W., Podbielska, H., Wawrzynska, M., dan Kopaczynska, M. (2023) 'In vitro examinations of the anti-inflammatory interleukin functionalized polydopamine based biomaterial as a potential coating for cardiovascular stents', *Biocybernetics and Biomedical Engineering*, 43(1), pp. 369–385. Available at: <https://doi.org/10.1016/j.bbe.2023.02.001>.



- Serruys, P.W., Sianos, G., Abizaid, A., Aoki, J., Heijer, P., Bonnier, H., Smits, P., McClean, D., Verheye, S., Belardi, J., Condado, J., Pieper, M., Gambone, L., Bressers, M., Symons, J., Sousa, E., dan Litvack, F. (2005) 'The effect of variable dose and release kinetics on neointimal hyperplasia using a novel paclitaxel-eluting stent platform: The Paclitaxel In-Stent Controlled Elution Study (PISCES)', *Journal of the American College of Cardiology*, 46(2), pp. 253–260. Available at: <https://doi.org/10.1016/j.jacc.2005.03.069>.
- Shen, Y., Li, X., and Le, Y. (2018) 'Amorphous nanoparticulate formulation of sirolimus and its tablets', *Pharmaceutics*, 10(3), pp. 1–13. Available at: <https://doi.org/10.3390/pharmaceutics10030155>.
- Shlofmitz, E., Iantorno, M. and Waksman, R. (2019) 'Restenosis of Drug-Eluting Stents: A New Classification System Based on Disease Mechanism to Guide Treatment and State-of-The-Art Review', *Circulation: Cardiovascular Interventions*, 12(8), pp. 1–8. Available at: <https://doi.org/10.1161/CIRCINTERVENTIONS.118.007023>.
- Siswanto, A., Fudholi, A., Nugroho, A.K., dan Martono, S. (2016) 'Validasi Metode HPLC untuk Penetapan Aspirin dan Asam Salisilat dalam Plasma Kelinci (*Lepus curpaeums*) secara Simultan Validation of A High Performance Liquid Chromatography Method for The Simultaneous Determination of Aspirin and Salisylic Acid In Rabb', *Jurnal Kefarmasian Indonesia*, 6, pp. 68–78.
- Sousa, J.E., Costa, M.A., Abizaid, A., Abizaid, A.S., Feres, F., Pinto, I.M.F., Seixas, A.C., Staico, R., Mattos, L.A., dan Falotico, R. (2001) 'Lack of neointimal proliferation after implantation of sirolimus-coated stents in human coronary arteries: A quantitative coronary angiography and three-dimensional intravascular ultrasound study', *Circulation*, 103(2), pp. 192–195. Available at: <https://doi.org/10.1161/01.CIR.103.2.192>.
- Sperling, C., Fischer, M., Maitz, M.F., dan Werner, C. (2009) 'Blood coagulation on biomaterials requires the combination of distinct activation processes', *Biomaterials*, 30(27), pp. 4447–4456. Available at: <https://doi.org/10.1016/j.biomaterials.2009.05.044>.
- Srdanovic, I. (2021) 'Factors influencing 1st and 2nd generation drug-eluting stent performance: understanding the basic pharmaceutical drug-in-polymer formulation factors contributing to stent thrombosis do we really need to eliminate the polymer?', *Journal of Pharmacy and Pharmaceutical Sciences*, 24, pp. 435–461. Available at: <https://doi.org/10.18433/jpps32053>.
- Stone, G.W., Ellis, S.G., Cox, D.A., Hermiller, J., O'Shaughnessy, C., Mann, J.T., Turco, M., Caputo, R. Bergin, P., Greenberg, J., Popma, J.J., dan Russell, M.E. (2004) 'A Polymer-Based, Paclitaxel-Eluting Stent in Patients with

- Coronary Artery Disease’, *New England Journal of Medicine*, 350, pp. 221–231.
- Stone, G.W., Midei, M., Newman, W., Sanz, M., Hermiller, J.B., Williams, J., Farhat, N., Mahaffey, K.W., Cutlip, D.E., Fitzgerald, P.J., Sood, P., Su, X., dan Lansky, A.J. (2008) ‘Comparison of an Everolimus-Eluting Stent With Coronary Artery Disease’, *American Medical Association*, 299(16), pp. 1903–1913.
- Sung, H.W. (1999) ‘In vitro evaluation of cytotoxicity of a naturally occurring cross-linking reagent for biological tissue fixation’, *Journal of Biomaterials Science, Polymer Edition*, 10(1), pp. 63–78. Available at: <https://doi.org/10.1163/156856299X00289>.
- Tsai, T.H. (1994) ‘Identification and determination of geniposide, genipin, gardenoside, and geniposidic acid from herbs by hplc/photodiode-array detection’, *Journal of Liquid Chromatography*, 17(10), pp. 2199–2205. Available at: <https://doi.org/10.1080/10826079408013541>.
- Ullrich, H., Olschewski, M., Munzel, T., dan Gori, T. (2021) ‘Koronare In-Stent-Restenose: Prädiktoren und Therapie’, *Deutsches Arzteblatt International*, 118(38), pp. 637–644. Available at: <https://doi.org/10.3238/arztebl.m2021.0254>.
- Visan, A.I., Popescu-Pelin, G., and Socol, G. (2021) ‘Degradation behavior of polymers used as coating materials for drug delivery—a basic review’, *Polymers*, 13(8), pp. 1–36. Available at: <https://doi.org/10.3390/polym13081272>.
- Xu, L.C., Bauer, J.W., and Siedlecki, C.A. (2014) ‘Proteins, platelets, and blood coagulation at biomaterial interfaces’, *Colloids and Surfaces B: Biointerfaces*, 124, pp. 49–68. Available at: <https://doi.org/10.1016/j.colsurfb.2014.09.040>.
- Xu, W., Sasaki, M. and Niidome, T. (2022) ‘Sirolimus Release from Biodegradable Polymers for Coronary Stent Application: A Review’, *Pharmaceutics*, 14(3). Available at: <https://doi.org/10.3390/pharmaceutics14030492>.
- Yan, L.P., Wang, Y.J., Ren, L., Wu, G., Caridade, S.G., Bing Fan, J., Yun Wang, L., Hong Ji, P., Oliveira, J.M., Oliveira, J.T., Mano, J.F., dan Reis, R.L. (2010) ‘Genipin-cross-linked collagen/chitosan biomimetic scaffolds for articular cartilage tissue engineering applications’, *Journal of Biomedical Materials Research - Part A*, 95 A(2), pp. 465–475. Available at: <https://doi.org/10.1002/jbm.a.32869>.