

DAFTAR PUSTAKA

- Albrektsen, G., Heuch, I., Løchen, M. L., Thelle, D. S., Wilsgaard, T., Njølstad, I., & Børnaa, K. H. (2016). Lifelong gender gap in risk of incident myocardial infarction: The Tromsø study. *JAMA Internal Medicine*, *176*(11), 1673–1679. <https://doi.org/10.1001/jamainternmed.2016.5451>
- Aydin, S., Ugur, K., Aydin, S., Sahin, İ., & Yardim, M. (2019). Biomarkers in acute myocardial infarction: Current perspectives. *Vascular Health and Risk Management*, *15*, 1–10. <https://doi.org/10.2147/VHRM.S166157>
- Bagus, A., Satyarsa, S., Ayu, S., & Suryantari, A. (2019). Marrow Stem Cells (BMSCs), sebagai penatalaksanaan mutakhir pada Infark Miokard Akut. *10*(1), 174–180. <https://doi.org/10.1556/ism.v10i1.300>
- Casteilla, L. (2011). Adipose-derived stromal cells: Their identity and uses in clinical trials, an update. *World Journal of Stem Cells*, *3*(4), 25. <https://doi.org/10.4252/wjsc.v3.i4.25>
- Chakraborty, D. P. (2008). 基因的改变 NIH Public Access. *Bone*, *23*(1), 1–7. <https://doi.org/10.1016/j.nano.2014.06.001.Targeted>
- Chew, D. S., Wilton, S. B., Kavanagh, K., Southern, D. A., Tan-Mesiatowsky, L. E., & Exner, D. V. (2018). Left ventricular ejection fraction reassessment post-myocardial infarction: Current clinical practice and determinants of adverse remodeling. *American Heart Journal*, *198*, 91–96. <https://doi.org/10.1016/j.ahj.2017.11.014>
- Cho, H. M., Kim, P. H., Chang, H. K., Shen, Y. M., Bonsra, K., Kang, B. J., Yum, S. Y., Kim, J. H., Lee, S. Y., Choi, M. C., Kim, H. H., Jang, G., & Cho, J. Y. (2017). Targeted genome engineering to control VEGF expression in human umbilical cord blood-derived mesenchymal stem cells: Potential implications for the treatment of myocardial infarction. *Stem Cells Translational Medicine*, *6*(3), 1040–1051. <https://doi.org/10.1002/sctm.16-0114>
- Dai, G., Xu, Q., Luo, R., Gao, J., Chen, H., Deng, Y., Li, Y., Wang, Y., Yuan, W., & Wu, X. (2015). Atorvastatin treatment improves effects of implanted mesenchymal stem cells: Meta-analysis of animal models with acute myocardial infarction. *BMC Cardiovascular Disorders*, *15*(1), 1–6. <https://doi.org/10.1186/s12872-015-0162-6>
- Ding, R., Jiang, X., Ha, Y., Wang, Z., Guo, J., Jiang, H., Zheng, S., Shen, Z., & Jie, W. (2015). Activation of Notch1 signalling promotes multi-lineage differentiation of c-Kit^{POS}/NKX2.5^{POS} bone marrow stem cells: Implication in stem cell translational medicine. *Stem Cell Research and Therapy*, *6*(1), 1–15. <https://doi.org/10.1186/s13287-015-0085-2>
- Fan, M., Chen, W., Liu, W., Du, G. Q., Jiang, S. L., Tian, W. C., Sun, L., Li, R. K., & Tian, H. (2010). The effect of age on the efficacy of human mesenchymal stem cell transplantation after a myocardial infarction.

- Florea, V., Rieger, A. C., DiFede, D. L., El-Khorazaty, J., Natsumeda, M., Banerjee, M. N., Tompkins, B. A., Khan, A., Schulman, I. H., Landin, A. M., Mushtaq, M., Golpanian, S., Lowery, M. H., Byrnes, J. J., Hendel, R. C., Cohen, M. G., Valasaki, K., Pujol, M. V., Ghersin, E., ... Hare, J. M. (2017). Dose comparison study of allogeneic mesenchymal stem cells in patients with ischemic cardiomyopathy (The TRIDENT study). *Circulation Research*, 121(11), 1279–1290. <https://doi.org/10.1161/CIRCRESAHA.117.311827>
- Fukushima, S., Sawa, Y., & Suzuki, K. (2013). Choice of cell-delivery route for successful cell transplantation therapy for the heart. *Future Cardiology*, 9(2), 215–227. <https://doi.org/10.2217/fca.12.85>
- Gao, L. R., Pei, X. T., Ding, Q. A., Chen, Y., Zhang, N. K., Chen, H. Y., Wang, Z. G., Wang, Y. F., Zhu, Z. M., Li, T. C., Liu, H. L., Tong, Z. C., Yang, Y., Nan, X., Guo, F., Shen, J. L., Shen, Y. H., Zhang, J. J., Fei, Y. X., ... Yang, Y. (2013). A critical challenge: Dosage-related efficacy and acute complication intracoronary injection of autologous bone marrow mesenchymal stem cells in acute myocardial infarction. *International Journal of Cardiology*, 168(4), 3191–3199. <https://doi.org/10.1016/j.ijcard.2013.04.112>
- Gluyas, H., & Morrison, P. (2013). Patient Safety: An Essential Guide. *Palgrave Macmillan*, 172. <https://books.google.co.id/books?id=xZb7AwAAQBAJ&pg=PT18&lpg=PT18&dq=patient+safety+slips,+lapses,+mistakes,+violation&source=bl&ots=WfagktTCTV&sig=wV0sC1QaYxniTnL16a2YWfMtcgs&hl=en&sa=X&ved=0ahUKEwi9ju3H3qfOAhXFfs48KHdZKDPUQ6AEIMDAC#v=onepage&q=split,lap>
- Hoeg, C.; Dolatshahi-Pirouz, A.; Follin, B. (2021). Injectable Hydrogels for Improving Cardiac Cell Therapy—In Vivo Evidence and Translational Challenges. *Gels*, 7, 7. <https://doi.org/10.3390/gels7010007>
- Huang, P., Wang, L., Li, Q., Xu, J., Xu, J., Xiong, Y., Chen, G., Qian, H., Jin, C., Yu, Y., Liu, J., Qian, L., & Yang, Y. (2019). Combinatorial treatment of acute myocardial infarction using stem cells and their derived exosomes resulted in improved heart performance. *Stem Cell Research and Therapy*, 10(1), 1–12. <https://doi.org/10.1186/s13287-019-1353-3>
- Jazi, S. M. H., Esfahani, M. H. N., Fesharaki, M., Moulavi, F., & Gharipour, M. (2012). Initial clinical outcomes of intracoronary infusion of autologous progenitor cells in patients with acute myocardial infarction. *ARYA Atherosclerosis*, 7(4), 162–167.
- Karantalis, V., DiFede, D. L., Gerstenblith, G., Pham, S., Symes, J., Zambrano, J. P., Fishman, J., Pattany, P., McNiece, I., Conte, J., Schulman, S., Wu, K.,

- Shah, A., Breton, E., Davis-Sproul, J., Schwarz, R., Feigenbaum, G., Mushtaq, M., Suncion, V. Y., Hare, J. M. (2014). Autologous mesenchymal stem cells produce concordant improvements in regional function, tissue perfusion, and fibrotic burden when administered to patients undergoing coronary artery bypass grafting: The prospective randomized study of mesenchymal stem ce. *Circulation Research*, *114*(8), 1302–1310. <https://doi.org/10.1161/CIRCRESAHA.114.303180>
- Kato, M., Kitada, S., Kawada, Y., Nakasuka, K., Kikuchi, S., Seo, Y., & Ohte, N. (2020). Left Ventricular End-Systolic Volume Is a Reliable Predictor of New-Onset Heart Failure with Preserved Left Ventricular Ejection Fraction. *Cardiology Research and Practice*, 2020. <https://doi.org/10.1155/2020/3106012>
- Kim, H. W., Mallick, F., Durrani, S., Ashraf, M., Jiang, S., & Haider, K. H. (2012). Concomitant activation of miR-107/PDCD10 and hypoxamir-210/Casp8ap2 and their role in cytoprotection during ischemic preconditioning of stem cells. *Antioxidants and Redox Signaling*, *17*(8), 1053–1065. <https://doi.org/10.1089/ars.2012.4518>
- Kim, S. H., Cho, J. H., Lee, Y. H., Lee, J. H., Kim, S. S., Kim, M. Y., Lee, M. G., Kang, W. Y., Lee, K. S., Ahn, Y. K., Jeong, M. H., & Kim, H. S. (2018). Improvement in Left Ventricular Function with Intracoronary Mesenchymal Stem Cell Therapy in a Patient with Anterior Wall ST-Segment Elevation Myocardial Infarction. *Cardiovascular Drugs and Therapy*, *32*(4), 329–338. <https://doi.org/10.1007/s10557-018-6804-z>
- Kishore, R., Verma, S. K., Mackie, A. R., Vaughan, E. E., Abramova, T. V., Aiko, I., & Krishnamurthy, P. (2013). Bone Marrow Progenitor Cell Therapy-Mediated Paracrine Regulation of Cardiac miRNA-155 Modulates Fibrotic Response in Diabetic Hearts. *PLoS ONE*, *8*(4). <https://doi.org/10.1371/journal.pone.0060161>
- Latifpour, M., Nematollahi-Mahani, S. N., Deilamy, M., Azimzadeh, B. S., Eftekhar-Vaghefi, S. H., Nabipour, F., Najafipour, H., Nakhaee, N., Yaghoubi, M., Eftekhar-Vaghefi, R., Salehinejad, P., & Azizi, H. (2011). Improvement in cardiac function following transplantation of human umbilical cord matrix-derived mesenchymal cells. *Cardiology*, *120*(1), 9–18. <https://doi.org/10.1159/000332581>
- Lee, J. W., Lee, S. H., Youn, Y. J., Ahn, M. S., Kim, J. Y., Yoo, B. S., Yoon, J., Kwon, W., Hong, I. S., Lee, K., Kwan, J., Park, K. S., Choi, D., Jang, Y. S., & Hong, M. K. (2014). A randomized, open-label, multicenter trial for the safety and efficacy of adult mesenchymal stem cells after acute myocardial infarction. *Journal of Korean Medical Science*, *29*(1), 23–31. <https://doi.org/10.3346/jkms.2014.29.1.23>
- Li, L., Guo, Y., Zhai, H., Yin, Y., Zhang, J., Chen, H., Wang, L., Li, N., Liu, R., & Xia, Y. (2014). Aging increases the susceptibility of MSCs to reactive oxygen species and impairs their therapeutic potency for myocardial

- infarction. *PLoS ONE*, 9(11). <https://doi.org/10.1371/journal.pone.0111850>
- Li, T., Ma, Q., Ning, M., Zhao, Y., & Hou, Y. (2014). Cotransplantation of human umbilical cord-derived mesenchymal stem cells and umbilical cord blood-derived CD34+ cells in a rabbit model of myocardial infarction. *Molecular and Cellular Biochemistry*, 387(1–2), 91–100. <https://doi.org/10.1007/s11010-013-1874-5>
- Marshall, I. J., & Wallace, B. C. (2019). *Toward systematic review automation : a practical guide to using machine learning tools in research synthesis*. 9, 1–10.
- Miao, C., Lei, M., Hu, W., Han, S., & Wang, Q. (2017). A brief review: The therapeutic potential of bone marrow mesenchymal stem cells in myocardial infarction. *Stem Cell Research and Therapy*, 8(1), 4–9. <https://doi.org/10.1186/s13287-017-0697-9>
- Millett, E. R. C., Peters, S. A. E., & Woodward, M. (2018). Sex differences in risk factors for myocardial infarction: Cohort study of UK Biobank participants. *BMJ (Online)*, 363. <https://doi.org/10.1136/bmj.k4247>
- Monge García, M. I., Jian, Z., Settels, J. J., Hunley, C., Cecconi, M., Hatib, F., & Pinsky, M. R. (2019). Determinants of left ventricular ejection fraction and a novel method to improve its assessment of myocardial contractility. *Annals of Intensive Care*, 9(1). <https://doi.org/10.1186/s13613-019-0526-7>
- Mouton, A. J., Rivera, O. J., & Lindsey, M. L. (2018). Myocardial infarction remodeling that progresses to heart failure: A signaling misunderstanding. *American Journal of Physiology - Heart and Circulatory Physiology*, 315(1), H71–H79. <https://doi.org/10.1152/ajpheart.00131.2018>
- Nursalim, A., Katili, P. A., & Santoso, T. (2014). *Cellular Cardiomyoplasty For Myocardial Infarction : a 2014 Evidence-based Update*. 150–162.
- Pancoast, J. R., Yalamanchi, P., Sinha, M., Osso, C. D., Psychogios, N., Gerszten, R. E., Hartigan, A. J., & Kim, M. (2014). Growth Differentiation Factor 11 is a Circulating Factor that Reverses Age-Related Cardiac Hypertrophy. *Cell*, 153(4), 828–839. <https://doi.org/10.1016/j.cell.2013.04.015>.Growth
- Pati, D., Ap, L., Lorusso, L. N., & Arch, M. S. (2017). *How to Write a Systematic Review of the Literature*. 1–16. <https://doi.org/10.1177/1937586717747384>
- [Perki] Perhimpunan Dokter Spesialis Kardiovaskular Indonesia. (2015). Pedomannya Tatalaksana Sindrom Koroner Akut Edisi Ketiga. *Jurnal Kardiologi Indonesia*. 88 hal.
- Perin, E. C., Borow, K. M., Silva, G. V., DeMaria, A. N., Marroquin, O. C., Huang, P. P., Traverse, J. H., Krum, H., Skerrett, D., Zheng, Y., Willerson, J. T., Itescu, S., & Henry, T. D. (2015). A Phase II dose-escalation study of allogeneic mesenchymal precursor cells in patients with ischemic or nonischemic heart failure. *Circulation Research*, 117(6), 576–584.

<https://doi.org/10.1161/CIRCRESAHA.115.306332>

- Physiology, C. (2019). *Application of Stem Cell Technologies to Regenerate Injured Myocardium and Improve Cardiac Function*. 101–120. <https://doi.org/10.33594/000000124>
- Pollock, A., & Berge, E. (2018). *How to do a systematic review*. 13(2), 138–156. <https://doi.org/10.1177/1747493017743796>
- Possomato-Vieira, José S. and Khalil, R. A. K. (2016). 乳鼠心肌提取 HHS Public Access. *Physiology & Behavior*, 176(12), 139–148. <https://doi.org/10.1161/CIRCRESAHA.115.305373>.Emerging
- Pratama, V., Yuniadi, Y., Pratama, V., & Yuniadi, Y. (2012). *Stem Cell Therapy for Heart Failure Terapi Sel Punca untuk Penyakit Jantung*. 33(1), 50–54.
- Qu, Z., Xu, H., Tian, Y., & Jiang, X. (2013). Atorvastatin improves microenvironment to enhance the beneficial effects of BMSCS therapy in a rabbit model of acute myocardial infarction. *Cellular Physiology and Biochemistry*, 32(2), 380–389. <https://doi.org/10.1159/000354445>
- Reed, G. W., Rossi, J. E., & Cannon, C. P. (2017). Acute myocardial infarction. *The Lancet*, 389(10065), 197–210. [https://doi.org/10.1016/S0140-6736\(16\)30677-8](https://doi.org/10.1016/S0140-6736(16)30677-8)
- Riset Kesehatan Dasar (Riskesdas). (2018). Badan Penelitian dan Pengembangan Kesehatan Kementerian RI tahun 2018. <https://www.litbang.kemkes.go.id/laporan-riset-kesehatan-dasar-riskesdas/>
- Rodrigo, S. F., Van Ramshorst, J., Hoogslag, G. E., Boden, H., Velders, M. A., Cannegieter, S. C., Roelofs, H., Al Younis, I., Dibbets-Schneider, P., Fibbe, W. E., Zwaginga, J. J., Bax, J. J., Schalij, M. J., Beeres, S. L., & Atsma, D. E. (2013). Intramyocardial injection of autologous bone marrow-derived Ex vivo expanded mesenchymal stem cells in acute myocardial infarction patients is feasible and safe up to 5 years of follow-up. *Journal of Cardiovascular Translational Research*, 6(5), 816–825. <https://doi.org/10.1007/s12265-013-9507-7>
- Saleh, M., & Ambrose, J. A. (2018). Understanding myocardial infarction. *F1000Research*, 7(0), 1–8. <https://doi.org/10.12688/f1000research.15096.1>
- Shafei, A. E. S., Ali, M. A., Ghanem, H. G., Shehata, A. I., Abdelgawad, A. A., Handal, H. R., Talaat, K. A., Ashaal, A. E., & El-Shal, A. S. (2017). Mesenchymal stem cell therapy: A promising cell-based therapy for treatment of myocardial infarction. *Journal of Gene Medicine*, 19(12). <https://doi.org/10.1002/jgm.2995>
- Song, L., Yang, Y. J., Dong, Q. T., Qian, H. Y., Gao, R. L., Qiao, S. Bin, Shen, R., He, Z. X., Lu, M. J., Zhao, S. H., Geng, Y. J., & Gersh, B. J. (2013). Atorvastatin Enhance Efficacy of Mesenchymal Stem Cells Treatment for Swine Myocardial Infarction via Activation of Nitric Oxide Synthase. *PLoS*

ONE, 8(5), 1–12. <https://doi.org/10.1371/journal.pone.0065702>

- Suncion, V. Y., Ghersin, E., Fishman, J. E., Zambrano, J. P., Mandel, N., Nelson, K. H., Gerstenblith, G., Difiede, D. L., Breton, E., Sitammagari, K., Schulman, I. H., Taldone, N., Williams, A. R., Sanina, C., Johnston, P. V., Brinker, J., Altman, P., Mushtaq, M., Trachtenberg, B., Heldman, A. W. (2014). Does Transendocardial Injection of Mesenchymal Stem Cells Improve Myocardial Function Locally or Globally? An Analysis From the POSEIDON Randomized Trial. *Circulation Research*, 114(8), 1292–1301. <https://doi.org/10.1161/CIRCRESAHA.114.302854>. Does
- Tan, S. J. O., Floriano, J. F., Nicastro, L., Emanuelli, C., & Catapano, F. (2020). Novel applications of mesenchymal stem cell-derived exosomes for myocardial infarction therapeutics. *Biomolecules*, 10(5). <https://doi.org/10.3390/biom10050707>
- Thygesen, K., Alpert, J. S., Jaffe, A. S., Chaitman, B. R., Bax, J. J., Morrow, D. A., & White, H. D. (2018). Fourth Universal Definition of Myocardial Infarction (2018). *Journal of the American College of Cardiology*, 72(18), 2231–2264. <https://doi.org/10.1016/j.jacc.2018.08.1038>
- Wang, X., Xi, W. chun, & Wang, F. (2014). The beneficial effects of intracoronary autologous bone marrow stem cell transfer as an adjunct to percutaneous coronary intervention in patients with acute myocardial infarction. *Biotechnology Letters*, 36(11), 2163–2168. <https://doi.org/10.1007/s10529-014-1589-z>
- Wangko, L. C., Awaloei, J. H., & Pangemanan, J. A. (2013). Pemanfaatan Sel Punca Pada Infark Miokard. *Jurnal Biomedik (Jbm)*, 3(1), 10–19. <https://doi.org/10.35790/jbm.3.1.2011.854>
- Xuefeng Chen, et al. (2017). Frequency of Left Ventricular End-Diastolic Volume Mediated Declines in Ejection Fraction in Patients Receiving Potentially Cardiotoxic Cancer Treatment. *Am J Cardiol*. 2017 May 15; 119(10): 1637–1642. doi:10.1016/j.amjcard.2017.02.008.
- Yan, B., Abdelli, L. S., & Singla, D. K. (2011). Transplanted induced pluripotent stem cells improve cardiac function and induce neovascularization in the infarcted hearts of db/db mice. *Molecular Pharmaceutics*, 8(5), 1602–1610. <https://doi.org/10.1021/mp2003576>
- Zakrzewski, W., Dobrzy, M., Szymonowicz, M., & Rybak, Z. (2019). Stem cells : past , present , and future. *Stem Cell Research & Therapy* <https://doi.org/10.1186/s13287-019-1165-5>.
- Zhang, R., Yu, J., Zhang, N., Li, W., Wang, J., Cai, G., Chen, Y., Yang, Y., & Liu, Z. (2021). Bone marrow mesenchymal stem cells transfer in patients with ST-segment elevation myocardial infarction: single-blind, multicenter, randomized controlled trial. *Stem Cell Research and Therapy*, 12(1), 1–14. <https://doi.org/10.1186/s13287-020-02096-6>