



## DAFTAR PUSTAKA

- Alam, M. Z., Hoque, S. J., Islam, M. J., Hossain, M. S., Rahman, A. dan Mohibullah, A. 2018. Mortality in Coronary Care Unit of a Tertiary Level Hospital of Bangladesh. *Bangladesh Heart Journal*, 33: 28–31.
- Antman, E. M., Tanasijevic, M. J. dan Thompson, B. 1996. Cardiac-Specific Troponin I levels to predict the risk of mortality in patients with acute coronary syndromes. *The New England Journal of Medicine*, 335: 1342–1349.
- Antman, E. M. dan Werf, F. Van de 2004. Pharmacoinvasive Therapy The Future of Treatment for ST-Elevation Myocardial Infarction. *Circulation*, 109: 2480–2486.
- Arab, T. M. A., Amin, H. M. dan Zahwy, S. S. El 2017. Impact of Body Mass Index on Presentation and Outcome of Acute ST Segment Elevation Myocardial Infarction. *Journal of Cardiology & Current Research*, 9: 00314.
- Arbel, Y., Shacham, Y., Ziv-Baran, T., Laufer Perl, M., Finkelstein, A., Halkin, A., Revivo, M., Milwidsky, A., Berliner, S., Herz, I., Keren, G. dan Banai, S. 2014. Higher Neutrophil/Lymphocyte Ratio Is Related to Lower Ejection Fraction and Higher Long-term All-Cause Mortality in ST-Elevation Myocardial Infarction Patients. *Canadian Journal of Cardiology* (on-line), 30: 1177–1182.
- Aronson, D., Nassar, M., Goldberg, T., Kapeliovich, M., Hammerman, H. dan Azzam, Z. S. 2010. The impact of body mass index on clinical outcomes after acute myocardial infarction. *International Journal of Cardiology* (on-line), 145: 476–480.
- Arso, I. A., Setianto, B. Y., Taufiq, N. dan Hartopo, A. B. 2014. In-hospital major cardiovascular events between STEMI receiving thrombolysis therapy and primary PCI. *Acta medica Indonesiana*, 46: 124–130.
- Artha, I. M. R., Dwipayana, I. M. P., Saputra, B. M. I., Juzar, D. A. dan Soerianata, S. 2017. Clinical characteristics, medical management and outcomes of patients with ST-Elevation Myocardial Infarction in Sanglah General Hospital, Denpasar, Bali, Indonesia. *Biomedical and Pharmacology Journal*, 10: 1197–1206.
- Badan Penelitian dan Pengembangan Kesehatan Kementerian Kesehatan Republik Indonesia 2013. Riset Kesehatan Dasar (RISKESDAS) 2013.
- Bader, E., Benjo, A., Tabaksblat, M., Chorzempa, A., Pamidimukala, C. K., Aziz, E., Gurzoy, E., Pierce, W., Mirza, T. dan Tamis-Holland, J. 2013. Decreased In-hospital Mortality In Hypertensive Patients Undergoing STEMI: Is Hypertension To Be Encouraged? *Journal of the American College of Cardiology* (on-line), 61: E90.
- Bae, E. H., Lim, S. Y., Cho, K. H., Choi, J. S., Kim, C. S., Park, J. W., Ma, S. K., Jeong, M. H. dan Kim, S. W. 2012. GFR and cardiovascular outcomes after acute myocardial infarction: Results from the Korea acute myocardial infarction registry. *American Journal of Kidney Diseases*, 59: 795–802.
- Benamer, H., Escolano, S., Livarek, B., Versailles, C. H. De dan Caussin, C. 2011. Female gender is an independent predictor of in-hospital mortality after STEMI in the era of primary PCI : insights from the greater Paris area PCI



- Registry. *EuroIntervention*, 6: 1073–1079.
- Bordejevic, D. A., Caruntu, F., Mornos, C., Petrescu, L. dan Tomescu, M. C. 2017. Prognostic impact of blood pressure and heart rate at admission on in-hospital mortality after primary percutaneous intervention for acute myocardial infarction with ST-segment elevation in western Romania. *Therapeutics and Clinical Risk Management*, 13: 1061–1068.
- Burlacu, A., Tinica, G., Nedelciuc, I., Simion, P., Artene, B. dan Covic, A. 2019. Strategies to Lower In-Hospital Mortality in STEMI Patients with Primary PCI: Analysing Two Years Data from a High-Volume Interventional Centre. *Journal of Interventional Cardiology*, 2019.
- Calé, R., de Sousa, L., Pereira, H., Costa, M. dan de Sousa Almeida, M. 2014. Primary angioplasty in women: Data from the Portuguese Registry of Interventional Cardiology. *Revista Portuguesa de Cardiologia (English Edition)*, 33: 353–361.
- Campbell, N. R. C., Johnson, J. A. dan Campbell, T. S. 2012. Sodium consumption: An individual's choice? *International Journal of Hypertension*, 2012: 14–17.
- Cei, M., Ferretti, A. dan Mumoli, N. 2017. Patients with very severe anemia. *Revista Brasileira de Hematologia e Hemoterapia*, 39: 285–287.
- Center for Disease Control and Prevention 2019. *National Health Interview Survey - Adult Tobacco Use* (on-line).
- Chehab, O., Salam, A., Eldirani, M. dan Hassan, H. 2018. Predictors of In-Hospital Mortality in Patients Admitted with Acute Myocardial Infarction in a Developing Country. *Cardiol Res*, 9: 293–299.
- Chen, P., Chua, S., Hung, H., Huang, C., Lin, C., Lai, S., Chen, Y., Cheng, J., Chiu, C., Lee, S., Lo, H. dan Shyu, K. 2014. Admission hyperglycemia predicts poorer short- and long-term outcomes after primary percutaneous coronary intervention for ST-elevation myocardial infarction. *Journal of Diabetes Investigation*, 5: 80–86.
- Chernecky, C. dan Berger, B. 2008. *Aspartate Aminotransferase Serum In Laboratory Tests and Diagnostic Procedures, 5th Edition*. Missouri: Saunders Elsevier.
- Chow, C., Atkins, E., Islam, S., Lung, T. dan Conroy, K. 2017. Reducing the burden of Cardiovascular Disease in Indonesia : Evidence Review. *The George Institute for Global Health*: 1–41.
- Chua, S. K., Shyu, K. G., Hung, H. F., Cheng, J. J., Lo, H. M., Liu, S. C., Chen, L. C., Chiu, N. Z., Chang, C. M., Lin, S. C., Liou, J. Y. dan Lee, S. H. 2014. Gender and age differences in short- and long-term outcomes following primary percutaneous coronary intervention for ST-elevation myocardial infarction. *Acta Cardiologica Sinica*, 30: 274–283.
- Cretu, D. E., Udroiu, C. A. dan Stoicescu, C. I. 2015. Predictors of in-Hospital Mortality of ST-Segment Elevation Myocardial Infarction Patients Undergoing Interventional Treatment. An Analysis of Data from the RO-STEMI Registry. *Maedica*, 10: 295–303.
- Cui, Y., Hao, K., Takahashi, J., Miyata, S., Shindo, T., Nishimiya, K., Kikuchi, Y., Tsuburaya, R., Matsumoto, Y., Ito, K., Sakata, Y. dan Shimokawa, H. 2017. Age-Specific Trends in the Incidence and In-Hospital Mortality of Acute



- Myocardial Infarction Over 30 Years in Japan —. *Circulation*, 81: 520–528.
- Dahlan, M. S. 2010. *Penelitian prognostik dan sistem skoring : disertai praktik dengan SPSS dan data* (Seri 8). ALQA Prisma Interdelta.
- Danchin, N. 2017. ESC 2017: Further Decreasing Mortality after STEMI Will be Difficult. *European Society of Cardiology, Biot, France*, 2017.
- Dégano, I. R., Salomaa, V., Veronesi, G., Ferrières, J., Kirchberger, I., Laks, T., Havulinna, A. S., Ruidavets, J., Ferrario, M. M., Meisinger, C., Elosua, R. dan Marrugat, J. 2015. Twenty five year trends in myocardial infarction attack and mortality rates and case fatality in six European populations. *Heart*, 0: 1–9.
- Dhamoon, M. S., Tai, W., Boden-albala, B., Rundek, T., Paik, M. C., Sacco, R. L. dan Elkind, M. S. V 2007. Risk of Myocardial Infarction or Vascular Death After First. *Stroke AHA*, 38: 1752–1758.
- Dharma, S., Andriantoro, H., Purnawan, I., Dakota, I., Basalamah, F., Hartono, B., Rasmin, R., Isnainijah, H., Yamin, M., Wijaya, I. P., Pratama, V., Gunarto, T. B., Juwana, Y. B., Suling, F. R. W., Witjaksono, A. M. O., Lasanudin, H. F., Iskandarsyah, K., Priatna, H., Tedjasukmana, P., Wahyumandradi, U., Kosasih, A., Budhiarti, I. A., Pribadi, W., Wirianta, J., Lubiantoro, U., Pramesti, R., Widowati, D. R., Aminda, S. K., Basalamah, M. A. dan Rao, S. V. 2016. Characteristics, treatment and in-hospital outcomes of patients with STEMI in a metropolitan area of a developing country: an initial report of the extended Jakarta Acute Coronary Syndrome registry. *BMJ open*, 6: e012193.
- Dharma, S., Sukmawan, R., Firdaus, I., Siswanto, B. B. dan Rao, S. V 2018. Hospital outcomes in STEMI patients after the introduction of a regional STEMI network in the metropolitan area of a developing country. *Asia Intervention*, 4: 92–97.
- Diercks, D. B., Roe, M. T., Mulgund, J., Pollack, C. V., Kirk, J. D., Gibler, W. B., Ohman, E. M., Smith, S. C., Boden, W. E. dan Peterson, E. D. 2006. The obesity paradox in non-ST-segment elevation acute coronary syndromes: Results from the Can Rapid risk stratification of Unstable angina patients Suppress ADverse outcomes with Early implementation of the American College of Cardiology/American Heart A. *American Heart Journal*, 152: 140–148.
- Falcao, F. J. de A., Alves, C. M. R. dan Barbosa, A. H. P. 2013. Predictors of in-hospital mortality in patients with ST-segment elevation myocardial infarction under- going pharmacoinvasive treatment. *Clinics*, 68: 1516–1520.
- Firman, D. 2010. Intervensi Koroner Perkutan Primer. , 31: 112–117.
- Fox, K. A. A., Jr, F. A. A., Dabbous, O. H. dan Steg, P. G. 2007. Intervention in acute Intervention in acute coronary syndromes : do patients undergo intervention on the basis of their risk characteristics ? The Global Registry of Acute Coronary Events (GRACE). *Heart*, 93: 177–182.
- Fresco, C., Avanzini, F., Bosi, S., Franzosi, M. G., Maggioni, A. P., Santoro, L. dan Bellanti, G. 1996. Prognostic value of a history of hypertension in 11483 patients with acute myocardial infarction treated with thrombolysis. *Journal of Hypertension*, 14: 743–750.
- Gao, M., Cheng, Y., Zheng, Y., Zhang, W., Wang, L. dan Qin, L. 2017. Association of serum transaminases with short- and long-term outcomes in patients with



- ST-elevation myocardial infarction undergoing primary percutaneous coronary intervention. *BMC Cardiovascular Disorders* (on-line), 17: 1–8.
- Garland, A., Olafson, K., Ramsey, C. D., Yogendran, M. dan Fransoo, R. 2013. Epidemiology of critically ill patients in intensive care units: A population-based observational study. *Critical Care* (on-line), 17: 1.
- Gayatri, N. I., Firmansyah, S., S, S. H. dan Rudiktyo, E. 2014. Prediktor Mortalitas Dalam-Rumah-Sakit Pasien Infark Miokard ST Elevation ( STEMI ) Akut di RSUD dr. Dradjat Prawiranegara Serang , Indonesia. *CDK*, 43: 171–174.
- Ghaffari, S., Nadiri, M., Pourafkari, L., Sepehrvand, N., Movasagpoor, A. dan Rahmatvand, N. 2014. The Predictive Value of Total Neutrophil Count and Neutrophil / Lymphocyte Ratio in Predicting In-hospital Mortality and Complications after STEMI. *J Cardiovasc Thorac Res*, 6: 35–41.
- Ginanjar, E. 2017. Fungsi Ginjal dan Kematian Akibat Sindrom Koroner Akut. *Jurnal Penyakit Dalam Indonesia*, 3: 175.
- Ginanjar, E., Yamin, M., Wijaya, I. P. dan Harimurti, K. 2019. Predictors of 30-day Mortality in ST-Elevation Myocardial Infarction (STEMI) Patients. *Acta medica Indonesiana*, 51: 238–244.
- Goldberg, R. J., McCormick, D., Gurwitz, J. H., Yarzebski, J., Lessard, D. dan Gore, J. M. 1998. Age-Related Trends in Short- and Long Term Survival After Acute Myocardial Infarction : A 20-Year Population-Based Perspective ( 1975 – 1995 ). *Am J Cardiol*, 82: 1311–1317.
- Goldberg, R. J., Steg, P. G., Sadiq, I., Granger, C. B., Jackson, E. A., Budaj, A., Brieger, D., Avezum, A. dan Goodman, S. 2002. Extent of , and Factors Associated With , Delay to Hospital Presentation in Patients With Acute Coronary Disease (The GRACE Registry). *Am J Cardiol*, 89: 791–796.
- González-Pacheco, H., Amezcua-Guerra, L. M. dan Sandoval, J. 2016. Prognostic Implications of Serum Albumin Levels in Patients With Acute Coronary Syndromes. *The American Journal of Cardiology* (on-line).
- Goriki, Y., Tanaka, A., Nishihira, K., Kawaguchi, A., Natsuaki, M., Watanabe, N., Ashikaga, K., Kuriyama, N., Shibata, Y. dan Node, K. 2020. A Novel Predictive Model for In-Hospital Mortality Based on a Combination of Multiple Blood Variables in Patients with ST-Segment-Elevation Myocardial Infarction. *Journal of Clinical Medicine*, 9: 852.
- Goyal, A., Spertus, J. A., Gosch, K., Venkitachalam, L., Jones, P. G., Berghe, G. Van den dan Kosiborod, M. 2012. Serum Potassium Levels and Mortality in Acute Myocardial Infarction. *JAMA*, 307: 157–164.
- Granger, C. B., Goldberg, R. J., Dabbous, O., Pieper, K. S. dan Eagle, K. . 2015. Predictors of Hospital Mortality in the Global Registry of Acute Coronary Events. *Arch Intern Med*, 163: 2345–2353.
- Grzybowski, M., Welch, R. D., Parsons, L., Ndumele, C. E., Chen, E., Zalenski, R. dan Barron, H. V. 2004. The association between white blood cell count and acute myocardial infarction in-hospital mortality: Findings from the National Registry of Myocardial Infarction. *Academic Emergency Medicine*, 11: 1049–1060.
- Guffey, D. 2012. Hosmer-Lemeshow goodness-of-fit test: Translations to the Cox Proportional Hazards Model. University of Washington.



- Gupta, T., Kolte, D., Khera, S., Harikrishnan, P., Mujib, M., Aronow, W. S., Jain, D., Ahmed, A., Cooper, H. A., Frishman, W. H., Bhatt, D. L., Fonarow, G. C. dan Panza, J. A. 2016. Smoker's Paradox in Patients With ST-Segment Elevation Myocardial Infarction Undergoing Primary Percutaneous Coronary Intervention. *Journal of the American Heart Association*, 5: 1–10.
- Hakim, D. A., Dangas, G. D. dan Caixeta, A. 2011. Impact of baseline thrombocytopenia on the early and late outcomes after ST-elevation myocardial infarction treated with primary angioplasty: Analysis from the Harmonizing Outcomes with Revascularization and Stents in Acute Myocardial Infarction. *American Heart Journal* (on-line), 161: 391–396.
- Hartopo, A. B., Puspitawati, I. dan Setianto, B. Y. 2015. On-admission High Neutrophil to Lymphocyte Ratio as Predictor of In-hospital Adverse Cardiac Event in ST-elevation Myocardial Infarction. *Acta medica Indonesiana*, 47: 3–10.
- Hartopo, A. B., Setianto, B. Y. dan Gharini, P. P. R. 2013. Predictive value of different estimated glomerular filtration rates on hospital adverse events following acute myocardial infarction. *Acta medica Indonesiana*, 45: 114–122.
- Her, A. Y., Shin, E. S., Kim, Y. H., Garg, S. dan Jeong, M. H. 2018. The contribution of gender and age on early and late mortality following ST-segment elevation myocardial infarction: Results from the Korean Acute Myocardial Infarction National Registry with Registries. *Journal of Geriatric Cardiology*, 15: 205–214.
- Ibanez, B., James, S., Agewall, Antunes, M. J., Chiara Bucciarelli-Ducci (UK), Héctor Bueno (Spain), A. L. P. C. (Italy), Filippo Crea (Italy), John A. Goudevenos (Greece), S. H. (Norway), Gerhard Hindricks (Germany), Adnan Kastrati (Germany), M. J. L., (The Netherlands), Eva Prescott (Denmark), M. R. (Switzerland), Marco Valgimigli (Switzerland), Christoph Varenhorst (Sweden), P. V., (Belgium), P. W. y (Czech R. J. A. (Portugal), Chiara Bucciarelli-Ducci (UK), Héctor Bueno (Spain), A. L. P. C. (Italy), Filippo Crea (Italy), John A. Goudevenos (Greece), S. H. (Norway), Gerhard Hindricks (Germany), Adnan Kastrati (Germany), M. J. L., (The Netherlands), Eva Prescott (Denmark), M. R. (Switzerland) dan Marco Valgimigli (Switzerland), Christoph Varenhorst (Sweden), Pascal Vranckx, P. W. y 2017. 2017 ESC Guidelines for the management of acute myocardial infarction in patients presenting with ST -segment elevation : The Task Force for the management of acute myocardial infarction. *Eur. Heart J*, 309: 1–66.
- Irawan, B., Suharno dan Rochmah, W. 2005. Hubungan Kadar Gula Darah Saat Masuk Rumah Sakit Dengan Cardiac Events Pada Penderita Infark Miokard Akut di RS Dr Sardjito Yogyakarta. *Jurnal Kedokteran Brawijaya*, Vol. XXI,: 37–44.
- Jernberg, T., L.Wallentin dan Alfredsson, J. 2018. "SWEDEHEART—no changes in survival after acute myocardial infarction in the last decade-new data," in Proceedings of the ESC Congress, Munich, Germany, August 2018.
- Jomaa, W., Ben Ali, I., Hamdi, S., Azaiez, M. A., Hraiech, A. El, Ben Hamda, K. dan Maatouk, F. 2017. Prevalence and prognostic significance of anemia in



- patients presenting for ST-elevation myocardial infarction in a Tunisian center. *Journal of the Saudi Heart Association* (on-line), 29: 153–159.
- Kang, D. G., Jeong, M. H., Ahn, Y., Chae, S. C., Hur, S. H., Hong, T. J., Kim, Y. J., Seong, I. W., Chae, J. K., Rhew, J. Y., Chae, I. H., Cho, M. C., Bae, J. H., Rha, S. W., Kim, C. J., Jang, Y. S., Yoon, J., Seung, K. B. dan Park, S. J. 2009. Clinical effects of hypertension on the mortality of patients with acute myocardial infarction. *Journal of Korean Medical Science*, 24: 800–806.
- Karam, N., Bataille, S., Marijon, E., Tafflet, M. dan Benamer, H. 2019. Incidence, Mortality, and Outcome-Predictors of Sudden Cardiac Arrest Complicating Myocardial Infarction Prior to Hospital Admission. : 1–9.
- Keskin, M., Kaya, A., Adem, M., Mert, İ., Uzman, O., Betül, E., Çinier, G., Çak, Y. dan Eren, M. 2016. The effect of serum potassium level on in-hospital and long-term mortality in ST elevation myocardial infarction. *International Journal of Cardiology*, 221: 505–510.
- Kim, Y., Ahn, Y., Cho, M. C., Kim, C. J. dan Kim, Y. J. 2019. Current status of acute myocardial infarction in Korea. *The Korean Journal of Internal Medicine*, 34: 1–10.
- Kirtane, A. J., Bui, A., Murphy, S. A., Barron, H. V dan Gibson, C. M. 2004. Association of Peripheral Neutrophilia With Adverse Angiographic Outcomes in ST-Elevation Myocardial Infarction. *Am J Cardiol*, 93: 532–536.
- Klopotowski, M., Kruk, M., Przyluski, J. dan Kepka, C. 2009. Sodium level on admission and in-hospital outcomes of STEMI patients treated with primary angioplasty : The ANIN Myocardial Infarction Registry. *Med Sci Monit*, 15: 477–483.
- Komiyama, K., Nakamura, M., Tanabe, K., Niikura, H., Fujimoto, H., Oikawa, K., Daida, H., Yamamoto, T., Nagao, K. dan Takayama, M. 2018. In-hospital mortality analysis of Japanese patients with acute coronary syndrome using the Tokyo CCU Network database: Applicability of the GRACE risk score. *Journal of Cardiology* (on-line), 71: 251–258.
- Konstantinou, K., Tsiofis, C., Koumelli, A., Mantzouranis, M., Kasiakogias, A., Doumas, M. dan Tousoulis, D. 2019. Hypertension and patients with acute coronary syndrome: Putting blood pressure levels into perspective. *Journal of Clinical Hypertension*, 21: 1135–1143.
- Kontos, M. C., Fordyce, C. B., Chen, A. Y., Chiswell, K., Enriquez, J. R., Lemos, J. De dan Roe, M. T. 2019. Association of acute myocardial infarction cardiac arrest patient volume and in-hospital mortality in the United States : Insights from the National Cardiovascular Data Registry Acute Coronary Treatment And Intervention Outcomes Network Registry. *Clinical Cardiology*: 352–357.
- Kurniawan, L. B., Bahrun, U. dan Er, D. 2012. Hubungan Kadar Transaminase terhadap Mortalitas dan Lama Perawatan Pasien Infark Miokard Correlation between Serum Transaminase and Mortality and Length of Hospitalization in Myocardial Infarction Patients. *Jurnal Kedokteran Yarsi*, 20: 29–35.
- Lanza, G. 2004. Ethnic variations in acute coronary syndromes. *Heart*, 90: 595–597.
- Lee, K. H., Jeong, M. H., YoungkeunAhn dan Kim, S. S. 2014. One-year clinical impact of cardiac arrest in patients with first onset acute ST-segment elevation



- myocardial infarction. *International Journal of Cardiology* (on-line): 1–7.
- Li, J., Li, X., Wang, Q., Hu, S., Wang, Y., Masoudi, F. A., Spertus, J. A., Krumholz, H. M. dan Jiang, L. 2015. ST-segment elevation myocardial infarction in China from 2001 to 2011 (the China PEACE-Retrospective Acute Myocardial Infarction Study): A retrospective analysis of hospital data. *The Lancet* (on-line), 385: 441–451.
- Maharani, A., Id, S., Praveen, D. dan Id, D. O. 2019. Cardiovascular disease risk factor prevalence and estimated 10-year cardiovascular risk scores in Indonesia : The SMARTHealth Extend study. *PLOS ONE*: 1–13.
- Mandrekar, J. N. 2010. Receiver Operating Characteristic Curve in Diagnostic Test Assessment. *Journal of Thoracic Oncology* (on-line), 5: 1315–1316.
- Marfianti, E., Anwar, S. dan Aryatama, A. B. 2020. Simple Risk Index Score and Hospitalization Mortality in Patients with ST-Elevation Myocardial Infarction. *Green Medical Journal*, 2: 1–7.
- McNair, P. W., Bilchick, K. C. dan Keeley, E. C. 2019. Very late presentation in ST elevation myocardial infarction : Predictors and long-term mortality. *IJC Heart & Vasculature* (on-line), 22: 156–159.
- McNamara, R. L., Kennedy, K. F. dan Cohen, D. J. 2016. Predicting In-Hospital Mortality in Patients With Acute Myocardial Infarction. *Journal of the American College of Cardiology*, 68: 626–635.
- Medina, M. S., Cortés, D. R. G., Siscar, J. L. P. dan Fernández, A. R. R. 2018. Predictive factors of in-hospital mortality in ST-segment elevation acute myocardial infarction. *CorSalud*, 10: 202–210.
- Mehta, L., Devlin, W., McCullough, P. A., O'Neill, W. W., Skelding, K. A., Stone, G. W., Boura, J. A. dan Grines, C. L. 2007. Impact of Body Mass Index on Outcomes After Percutaneous Coronary Intervention in Patients With Acute Myocardial Infarction. *American Journal of Cardiology*, 99: 906–910.
- Menees, D. S., Peterson, E. D., Wang, Y., Curtis, J. P., Messenger, J. C., Rumsfeld, J. S., Ph, D. dan Gurm, H. S. 2013. Door-to-Balloon Time and Mortality among Patients Undergoing Primary PCI. *The New England Journal of Medicine*, 369: 901–909.
- Metz, C. E. 1978. Basic Principles of ROC Analysis. *Seminars in Nuclear Medicine*, VIII.
- Mikhael, R., Hindoro, E., Taner, S. dan Lukito, A. A. 2020. Neutrophil-to-lymphocyte ratio for predictor of in-hospital mortality in ST-segment elevation myocardial infarction : a meta-analysis. *Medical Journal of Indonesia*, 29: 172–182.
- Moon, J., Kang, W., Oh, P. C., Seo, S. Y., Lee, K., Han, S. H., Ahn, T. dan Shin, E. 2014. Serum transaminase determined in the emergency room predicts outcomes in patients with acute ST-segment elevation myocardial infarction who undergo primary percutaneous coronary intervention. *International Journal of Cardiology* (on-line), 177: 442–447.
- Morrow, D. A., Antman, E. M., Charlesworth, A., Cairns, R., Murphy, S. A., Lemos, J. A. De, Giugliano, R. P., McCabe, C. H. dan Braunwald, E. 2000. Clinical Investigation and Reports TIMI Risk Score for ST-Elevation Myocardial Infarction : A Convenient , Bedside , Clinical Score for Risk



## Assessment at Presentation.

- Morrow, D. A., Antman, E. M., Giugliano, R. P., Cairns, R., Charlesworth, A., Murphy, S. A., Lemos, J. A. De, Mccabe, C. H. dan Braunwald, E. 2001. A simple risk index for rapid initial triage of patients with ST-elevation myocardial infarction : an InTIME II substudy. , 358: 1571–1575.
- Ng, V. G., Lansky, A. J., Meller, S., Witzenbichler, B., Guagliumi, G., Peruga, J. Z., Brodie, B., Shah, R., Mehran, R. dan Stone, G. W. 2014. The prognostic importance of left ventricular function in patients with ST-segment elevation myocardial infarction : the HORIZONS-AMI trial. *European Heart Journal: Acute Cardiovascular Care*, 3: 67–77.
- Niraj, A., Pradahan, J. dan Fakhry, H. 2007. Severity of Coronary Artery Disease in Obese Patients Undergoing Coronary Angiography: “Obesity Paradox” Revisited. *Clinical Cardiology*, 30: 391–396.
- Normand, S.-L. T., Glickman, M. E. dan Mcneil, B. J. 1996. Using Admission Characteristics to Predict Short-term Mortality From Myocardial Infarction in Elderly Patients. Results from the Cooperative Cardiovascular Project. *JAMA*, 275: 1322–1328.
- Núñez, J., Núñez, E., Bodí, V., Sanchis, J., Miñana, G., Mainar, L., Santas, E., Merlos, P., Rumiz, E., Darmofal, H., Heatta, A. M. dan Llacer, A. 2008. Usefulness of the Neutrophil to Lymphocyte Ratio in Predicting Long-Term Mortality in ST Segment Elevation Myocardial Infarction. *American Journal of Cardiology*, 101: 747–752.
- Oh, P. C., Sil, Y., Id, E., Moon, J., Jang, H., Kim, T., Suh, J., Kong, M. G., Park, S., Kwon, S. W., Choe, J. Y., Suh, Y., Lee, K., Han, S. H., Ahn, T., Chol, W. dan Id, K. 2020. Prognostic impact of the combination of serum transaminase and alkaline phosphatase determined in the emergency room in patients with ST-segment elevation myocardial infarction undergoing primary percutaneous coronary intervention. *PLOS ONE* (on-line): 1–13.
- Park, K. H., Ahn, Y., Jeong, M. H., Chae, S. C., Hur, S. H., Kim, Y. J., Seong, I. W., Chae, J. K., Hong, T. J., Cho, M. C., Bae, J. H., Rha, S. W. dan Jang, Y. S. 2012. Different impact of diabetes mellitus on in-hospital and 1-year mortality in patients with acute myocardial infarction who underwent successful percutaneous coronary intervention: Results from the Korean acute myocardial infarction registry. *Korean Journal of Internal Medicine*, 27: 180–188.
- Parung, A. A., Liben, P. dan Herwanto, B. 2015. Tingkat Mortalitas Terapi Reperfusi Pada Penderita STEMI di RSUD Dr. Soetomo Surabaya.
- Pascual, I., Hernandez-Vaquero, D., Almendarez, M., Lorca, R., Escalera, A., Díaz, R., Alperi, A., Carnero, M., Silva, J., Morís, C. dan Avanzas, P. 2020. Observed and Expected Survival in Men and Women after Suffering a STEMI. *Journal of Clinical Medicine*, 9: 1174.
- Pedersen, F., Butrymovich, V. dan Kelbæk, H. 2014. Short- and Long-Term Cause of Death in Patients Treated With Primary PCI for STEMI. *Journal of the American College of Cardiology*, 64: 2101–2108.
- Picariello, C., Lazzeri, C., Attanà, P., Chiostri, M., Gensini, G. F. dan Valente, S. 2011. The impact of hypertension on patients with acute coronary syndromes.



*International Journal of Hypertension*, 2011.

- Plakht, Y., Gilutz, H. dan Shiyovich, A. 2018. Sodium levels during hospitalization with acute myocardial infarction are markers of in-hospital mortality : Soroka acute myocardial infarction II ( SAMI-II ) project. *Clinical Research in Cardiology* (on-line), 107: 956–964.
- Puymirat, E., Simon, T., Cayla, G. dan Cottin, Y. 2017. Acute Myocardial Infarction Changes in Patient Characteristics, Management, and 6-Month Outcomes Over a Period of 20 Years in the FAST-MI Program (French Registry of Acute ST-Elevation or Non-ST-Elevation Myocardial Infarction) 1995 to 2015. *Circulation*, 136: 1908–1919.
- Ratcliffe, J. A., Wilson, E., Islam, S., Platsman, Z., Leou, K., Williams, G., Lucido, D., Moustakakis, E., Rachko, M. dan Bergmann, S. R. 2014. Mortality in the coronary care unit. *Coronary Artery Disease*, 25: 60–65.
- Riley, R. F., Newby, L. K., Don, C. W., Alexander, K. P., Peterson, E. D., Peng, S. A., Gandhi, S. K., Kutcher, M. A., Amsterdam, E. A. dan Herrington, D. M. 2013. Guidelines-based treatment of anaemic STEMI patients: Practice patterns and effects on in-hospital mortality: A retrospective analysis from the NCDR. *European Heart Journal: Acute Cardiovascular Care*, 2: 35–43.
- Robinson, K., Conroy, R. M. dan Mulcahy, R. 1989. When does the risk of acute coronary heart disease in ex-smokers fall to that in non-smokers? A retrospective study of patients admitted to hospital with a first episode of myocardial infarction or unstable angina. *British Heart Journal*, 62: 16–19.
- Rodrigues, J. A., Melleu, K., Schmidt, M. M., Antonio, C., Gottschall, M., Moraes, A. P. De dan Quadros, A. S. De 2018. Independent Predictors of Late Presentation in Patients with ST - Segment Elevation Myocardial Infarction. *Arq Bras Cardio*, 111: 587–593.
- Rogers, W. J., Frederick, P. D., Stoehr, E., Canto, J. G., Ornato, J. P., Gibson, C. M., Jr, V. P. dan Gore, J. M. 2008. Trends in presenting characteristics and hospital mortality among patients with ST elevation and non-ST elevation myocardial infarction in the National Registry of Myocardial Infarction from 1990 to 2006. *American Heart Journal*, 156: 1026–1034.
- Rosselló, X., Huo, Y., Pocock, S., Werf, F. Van De, Tang, C., Danchin, N., Lee, S. W., Medina, J., Vega, A. dan Bueno, H. 2017. Global geographical variations in ST-segment elevation myocardial infarction management and post-discharge mortality. *International Journal of Cardiology*, 245: 27–34.
- Rozqie, R., Bagaswoto, H. P., Taufiq, N. dan Setianto, B. Y. 2018. *The Predictor of In Hospital Mortality Prognosis in Patient with ST-Elevation Myocardial Infarction after Primary Angioplasty presented at INA ACC 2018*.
- Sadeghi, H. M., Stone, G. W., Grines, C. L., Mehran, R., Dixon, S. R., Lansky, A. J., Fahy, M., Cox, D. A., Garcia, E., Tcheng, J. E., Griffin, J. J., Stuckey, T. D., Turco, M. dan Carroll, J. D. 2003. Impact of Renal Insufficiency in Patients Undergoing Primary Angioplasty for Acute Myocardial Infarction. *Circulation*, 108: 2769–2775.
- Şahin, D. Y., Elbasan, Z., Gür, M., Yıldız, A., Akpinar, O., İcen, Y. K., Turkoglu, C., Tekin, K., Kuloglu, O. dan Çaylı, M. 2013. Neutrophil to lymphocyte ratio is associated with the severity of coronary artery disease in patients with ST-



- segment elevation myocardial infarction. *Angiology*, 64: 423–429.
- Samanta, R., Narayan, A., Kovoov, P. dan Thiagalingam, A. 2018. Long-term survival in patients presenting with STEMI complicated by out of hospital cardiac arrest. *IJC Heart & Vasculature* (on-line), 22: 50–54.
- Sanguanwong, S., Srimahachota, S., Tungsututra, W., Srichaiveth, B. dan Kiatchosakun, S. 2007. Predictors of In-Hospital Mortality in Thai STEMI Patients : Results from TACSR. *J Med Assoc Thai*, 90: 91–97.
- Sattar, S., Ahmed, N., Akhter, Z., Aijaz, S., Lakhani, S., Malik, R. dan Pathan, A. 2019. In-Hospital outcomes in acute coronary syndrome patients with concomitant severe chronic kidney disease undergoing percutaneous coronary intervention. *Pak J Med Sci*, 35: 291–297.
- Setianingrum, E. dan Purwanto, A. 2019. The Difference Between Absolute Neutrophils, Neutrophil / Lymphocyte Ratio And Paletelet Lymphocyte Ratio in Normal, NSTEMI, STEMI Patients. *Indonesian Journal of Clinical Pathology and Medical Laboratory*, 25: 268–273.
- Shrestha, N. 2019. Assessing Discriminatory Performance of a Binary Logistic Regression Model. *International Journal of Advances in Scientific Research and Engineering (ijasre)*, 5.
- Shyu, K. G., Wu, C. J., Mar, G. Y., Hou, C. J. Y., Li, A. H., Wen, M. S., Lai, W. Ter, Lin, S. J., Kuo, C. T., Hwang, J. J. dan Chiang, F. T. 2011. Clinical characteristics, management and in-hospital outcomes of patients with acute coronary syndrome - Observations from the Taiwan ACS full spectrum registry. *Acta Cardiologica Sinica*, 27: 135–144.
- Siudak, Z., Birkemeyer, R., Dziewierz, A., Rakowski, T., Zmudka, K., Dubiel, J. S. dan Dudek, D. 2012. Out-of-hospital cardiac arrest in patients treated with primary PCI for STEMI . Long-term follow up data from EUROTRANSFER registry. *Resuscitation* (on-line), 83: 303–306.
- Song, C., Fu, R., Dou, K., Yang, J., Xu, H., Gao, X., Wang, H., Liu, S., Fan, X. dan Yang, Y. 2019. Association between smoking and in- hospital mortality in patients with acute myocardial infarction : results from a prospective , multicentre , observational study in China. *British Medical Journal*, 9:e030252: 1–7.
- Sörensen, N. A., Ludwig, S., Makarova, N., Keller, T., Blankenberg, S., Westermann, D. dan Zeller, T. 2019. Prognostic Value of a Novel and Established High-Sensitivity Troponin I Assay in Patients Presenting with Suspected Myocardial Infarction. *Biomolecules*, 9.
- Sunjaya, A. P., Sunjaya, A. F. dan Priyana, A. 2019. Insights and challenges of indonesia's acute coronary syndrome telecardiology network: Three year experience from a single center and in west Jakarta, Indonesia. *IOP Conference Series: Materials Science and Engineering*, 508.
- Suryantoro, M., Damarkusuma, A., Bagaswoto, H. P., Taufiq, N. dan Setianto, B. Y. 2017. Assessment of Cardiovascular Intensive Care Unit Patient Profile: Analyses the Data from Sardjito Cardiovascular Intensive Care Registry (The SCIENCE registry). Abstracts of the 26th Annual Scientific Meeting of Indonesian Heart Association 2017 (*European Heart Journal Supplements* (on-line), 19: Pages E1–E13.



- Susilowati, E. dan Mulyaningsih, N. 2020. Banyuwangi acute heart failure and acute myocardial infarction mortality risk assesment (BAHAYA): inhospital mortality risk prediction. *Presented at Jogja Cardiology Update 2020*.
- Tian, L., Yang, Y., Zhu, J. dan Liu, L. 2016. Impact of Previous Stroke on Short-Term Myocardial Reinfarction in Patients With Acute ST Segment Elevation Myocardial Infarction : An Observational Multicenter Study. *Medicine*, 95: 1–5.
- Ting, H. H., Bradley, E. H. dan Wang, Y. 2008. Factors Associated With Longer Time From Symptom Onset to Hospital Presentation for Patients With ST-Elevation Myocardial Infarction. *Arch Intern Med*, 168: 959–968.
- Tran, D. T., Barake, W., Galbraith, D., Norris, C., Knudtson, M. L., Kaul, P., Mcalister, F. A. dan Sandhu, R. K. 2019. Total and Cause Specific Mortality After Percutaneous Coronary Intervention : Observations From the Alberta Provincial Project for Outcome Assessment in Coronary Heart Disease Registry. *Canadian Cardiovascular Society* (on-line), 1: 182–189.
- Uluganyan, M., Ekmekçi, A., Murat, A., Avşar, Ş., Ulutaş, T. K., Uyarel, H., Bozbay, M., Çiçek, G., Karaca, G. dan Eren, M. 2016. Admission serum potassium level is associated with in-hospital and long-term mortality in ST-elevation myocardial infarction. *Anatol J Cardiol*, 16: 10–15.
- Units, C., Barjon, G., Constantin, J., Ph, D., Dhonneur, G., Ph, D., Goguey, C., Goutorbe, P., Guidet, B., Ph, D., Hyvernat, H., Robardey, A. G., Sirodot, M., Theissen, A., Wiramus, S., Zieleskiewicz, L., Leone, M., Ph, D., Ichai, C. dan Ph, D. 2018. Causes and Characteristics of Death in Intensive. *Crit Care Med*: 882–889.
- Vaccarino, V., Lori Parsons, B. S. dan Every, N. R. 1999. Sex-Based Differences In Early Mortality After Myocardial Infarction. *New England Journal of Medicine*, 341: 217–225.
- Vasiljević, Z., Stojanović, B., Kocev, N., Stefanović, B., Mrdović, I., Ostojić, M., Krotin, M., Putniković, B., Dimković, S. dan Despotović, N. 2008. Hospital mortality trend analysis of patients with ST elevation myocardial infarction in the Belgrade area coronary care units. *Srp Arh Celok Lek*, 136: 84–96.
- Vernino, S., Sicks, Jorean D, Brown, R. D., Sejvar, J. J. dan Sicks, JoRean D. 2003. Cause-Specific Mortality After First Cerebral Infarction : A Population-Based Study. *Stroke AHA*, 34: 1828–1832.
- Wienbergen, H., Gitt, A. K., Juenger, C., Schiele, R., Heer, T., Towae, F., Gohlke, H. dan Senges, J. 2008. Impact of the body mass index on occurrence and outcome of acute ST-elevation myocardial infarction. *Clinical Research in Cardiology*, 97: 83–88.
- Wilson, P. W., Alpert, J. S., Simons, M., Breall, J. A. dan Douglas, P. S. 2019. *Prognosis after myocardial infarction* (on-line).
- Yanishi, K., Nakamura, T., Nakanishi, N., Yokota, I., Zen, K., Yamano, T., Shiraishi, H., Shirayama, T., Shiraishi, J., Sawada, T., Kohno, Y., Kitamura, M., Furukawa, K. dan Matoba, S. 2016. A Simple Risk Stratification Model for ST- Elevation Myocardial Infarction ( STEMI ) from the Combination of Blood Examination Variables : Acute Myocardial Infarction-Kyoto Multi-Center Risk Study Group. : 1–14.