

VII Acknowledgement

The author really thanks Prof. Mahbub Latif for helpful discussion and suggestions about this study, Dr. Kuniyoshi Hayashi for helpful support for statistical analysis, and Dr. Daiki Kobayashi for discussing this project.

References

- Boersma, E., Pieper, K. S., Steyerberg, E. W., et al. (2000). Predictors of outcome in patients with acute coronary syndromes without persistent ST-segment elevation. Results from an international trial of 9461 patients. The PURSUIT Investigators. *Circulation*, 101(22), 2557–2567.
- Brammås, A., Jakobsson, S., Ulvenstam, A., & Mooe, T. (2013). Mortality after ischemic stroke in patients with acute myocardial infarction: predictors and trends over time in Sweden. *Stroke*, 44(11), 3050–3055.
- Breiman, L., Friedman, J., Stone, C. J., & Olshen, R. A. (1984). *Classification and Regression Trees*. Taylor & Francis.
- Cannon, C. P., Battler, A., Brindis, R. G., et al. (2001). ACC key elements and data definitions for measuring the clinical management and outcomes of patients with acute coronary syndromes: A report of the American College of Cardiology Task Force on Clinical Data Standards (Acute Coronary Syndromes Writing Committee). *Journal of the American College of Cardiology*, 38(7), 2114–2130.
- Fujii, T., Suzuki, T., Torii, et al. (2014). Diagnostic accuracy of Global Registry of Acute Coronary Events (GRACE) risk score in ST-elevation myocardial infarction for in-hospital and 360-day mortality in Japanese patients. *Circulation Journal*, 78(12), 2950–2954.

- Granger, C. B., Goldberg, R. J., Dabbous, et al. (2003). Predictors of hospital mortality in the global registry of acute coronary events. *Archives of Internal Medicine*, 163(19), 2345–2353.
- Halkin, A., Singh, M., Nikolsky, et al. (2005). Prediction of mortality after primary percutaneous coronary intervention for acute myocardial infarction: the CADILLAC risk score. *Journal of the American College of Cardiology*, 45(9), 1397–1405.
- Halkin, A., Stone, G. W., Grines, et al. (2006). Prognostic implications of creatine kinase elevation after primary percutaneous coronary intervention for acute myocardial infarction. *Journal of the American College of Cardiology*, 47(5), 951–961.
- Hochman, J. S., Sleeper, L. A., Webb, J. G., et al. (1999). Early revascularization in acute myocardial infarction complicated by cardiogenic shock. SHOCK Investigators. Should we emergently revascularize occluded coronaries for cardiogenic shock. *The New England Journal of Medicine*, 341(9), 625–634.
- Killip, T., & Kimball, J. T. (1967). Treatment of myocardial infarction in a coronary care unit: A two year experience with 250 patients. *The American Journal of Cardiology*, 20(4), 457–464.
- Kojima, S., Nishihira, K., Takegami, M., et al. (2018). Nationwide real-world database of 20,462 patients enrolled in the Japanese Acute Myocardial Infarction Registry (JAMIR): Impact of emergency coronary intervention in a super-aging population. *IJC Heart & Vasculture*, 20, 1–6.
- Komiyama, K., Nakamura, M., Tanabe, K., et al. (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*, 71(3), 251–258.
- Libby, P. (2013). Mechanisms of acute coronary syndromes and their implications for therapy. *The New England Journal of Medicine*, 368(21), 2004–2013.

- Miyachi, H., Takagi, A., Miyauchi, K., et al. (2016). Current characteristics and management of ST elevation and non-ST elevation myocardial infarction in the Tokyo metropolitan area: from the Tokyo CCU network registered cohort. *Heart and Vessels*, 31(11), 1740–1751.
- Miyamoto, S., Nakao, K., Taguchi, E., & Sakamoto, T. (2017). Predictive factors of major adverse cardiovascular events after treatment in patients with acute coronary syndrome in second-generation drug-eluting stent era. *Journal of the Japanese Coronary Association*, 23, 150–155.
- Motivala, A. A., Parikh, V., Roe, M., et al. (2016). Predictors, trends, and outcomes (among older patients ≥ 65 years of age) associated with beta-blocker use in patients with stable angina undergoing elective percutaneous coronary intervention: Insights from the NCDR registry. *JACC. Cardiovascular Interventions*, 9(16), 1639–1648.
- Nabel, E. G., & Braunwald, E. (2012). A tale of coronary artery disease and myocardial infarction. *New England Journal of Medicine*, 366(1), 54–63.
- Puymirat, E., Riant, E., Aissaoui, N., et al. (2016). β blockers and mortality after myocardial infarction in patients without heart failure: multicentre prospective cohort study. *BMJ*, 354, i4801.
- Sabatine, M. S., Morrow, D. A., Giugliano, R. P., et al. (2004). Implications of upstream glycoprotein IIb/IIIa inhibition and coronary artery stenting in the invasive management of unstable angina/non-ST-elevation myocardial infarction. *Circulation*, 109(7), 874–880.
- Saku, K., Kakino, T., Arimura, T., et al. (2018). Left ventricular mechanical unloading by total support of Impella in myocardial infarction reduces infarct size, preserves left ventricular function, and prevents subsequent heart failure in dogs. *Circulation. Heart Failure*, 11(5), e004397.
- Stone, G. W., Maehara, A., Lansky, A. J., et al. (2011). A prospective natural-history study of coronary atherosclerosis. *The New England Journal of Medicine*, 364(3), 226–235.

Takii, T., Yasuda, S., Takahashi, J., et al. (2010). Trends in acute myocardial infarction incidence and mortality over 30 years in Japan: Report from the MIYAGI-AMI Registry Study. *Circulation Journal*, 74(1), 93–100.

Yanishi, K., Nakamura, T., Nakanishi, N., et al. (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. *PloS One*, 11(11), e0166391.

Yasuda, S., Nakao, K., Nishimura, K., et al. (2016). The current status of cardiovascular medicine in Japan: Analysis of a large number of health records from a nationwide claim-based database, JROAD-DPC. *Circulation Journal*, 80(11), 2327–2335.