

Home assignment 3

Analysis of Survival Data, fall 2025

Previously reviewed articles (don't pick any of these)

Tyrer, F., Chudasama, Y.V., Lambert, P.C. et al. Flexible parametric methods for calculating life expectancy in small populations. *Population Health Metrics* 21, 13 (2023).
<https://doi.org/10.1186/s12963-023-00313-x>

Dickman, P. W., Adami, H.-O. (2006). Interpreting trends in cancer patient survival. *Journal of Internal Medicine*, 260(2), 103–117. <https://doi.org/10.1111/j.1365-2796.2006.01677.x>

F. Vosmeijer, M. Gresnigt, A. Doeve, A. Packer, M. Cune, and M. de Kuijper. What is the influence of the operator on the long-term survival of posterior partial lithium disilicate restorations in an undergraduate setting? *Journal of Dentistry*, 153:105522, 2025.

Sandrock, C. E. and Song, P. X. K. (2024). Limitation of site-stratified cox regression analysis in survival data: a cautionary tale of the panamo phase iii randomized, controlled study in critically ill covid-19 patients. *Trials*, 25(1):822.

Cox, E. H., Veyrat-Follet, C., Beal, S. L., Fuseau, E., Kenkare, S., & Sheiner, L. B. (1999). “A Population Pharmacokinetic-Pharmacodynamic Analysis of Repeated Measures Time-to-Event Pharmacodynamic Responses: The Antiemetic Effect of Ondansetron.” *Journal of Pharmacokinetics and Biopharmaceutics*, 27(6), 625-644.

Rennert, L., & Xie, S. X. (2022). Cox regression model under dependent truncation. *Biometrics*, 78 (2), 460–473.

Verduri, A., Short, R., Carter, B., et al. (2022). Comparison between first and second Wave of COVID-19 outbreak in older people: the COPE multicentre European observational cohort study. *European Journal of Public Health*, 32(5), 807–812.

Samoli, E., et al., 2021. Modeling multi-level survival data in multi-center epidemiological cohort studies: Applications from the ELAPSE project. *Environment International*, 147, p.106371. <https://doi.org/10.1016/j.envint.2020.106371>

”Competing-risks analysis for evaluating the prognosis of patients with microinvasive cutaneous squamous cell carcinoma based on the SEER database” by Suzheng Zheng, Shuping Xie, Hai Yu, Xi Duan, Yong He, Chichien Ho, Yang Wan, Tie Hang, Wenhui Chen, Jun Lyu and Liehua Deng. The article was published the 7 December 2023 in the *BMC Medical Research Methodology*.

Comparison of traditional Cox regression and causal modeling to investigate the association between long-term air pollution exposure and natural-cause mortality within European cohorts. Wolf et al., *Environmental Pollution*, Volume 327, 2023.
<https://doi.org/10.1016/j.envpol.2023.121515>