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Incubation and latency time estimation for SARS-CoV-2

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List of Publications

Academic papers

Arntzen, V.H., Feenstra, S.G., Benincà, E., Le, T.T.N., Mascini, E.M., Nabuurs-Franssen, M.H., Voss, A., Marik, A.M., Jong, E. de, Silvis, W., Schijffelen, M.J., Schneeberger, P., Hopman, J., Korthals Altes, H. Wertheim, H.F.L. (contributed equally) [2023, most work in 2017] 'Spatial analysis of methicillin-resistant *Staphylococcus aureus* carriage (MRSA) at hospital admission in a livestock dense region', *medRxiv (preprint)*, doi: 10.1101/2023.05.01.23289266

Smith A.F., Huss A., Dorevitch, S., Heijnen, L., **Arntzen, V.H.**, Davies, M., Robert-Du Ry van Beest Holle, M., Fujita, Y., Verschoor, A.M., Raterman, B., Oosterholt, F., Heederik, D., and Medema, G. [2019] 'Multiple Sources of the Outbreak of Legionnaires' Disease in Genesee County, Michigan, in 2014 and 2015', *Environmental Health perspectives*, doi: 10.1289/EHP566

Arntzen, V. H., Fiocco, M., Leitzinger, N. and Geskus, R. B. [2023], 'Towards robust and accurate estimates of the incubation time distribution, with focus on upper tail probabilities and SARS-CoV-2 infection', *Statistics in Medicine*, doi: 10.1002/sim.9726

Arntzen, V.H., Fiocco, M. and Geskus, R.B. [2024], 'Two biases in incubation time estimation related to exposure', *BMC Infectious Diseases*, doi: 10.1186/s12879-024-09433-7

Vera H. Arntzen, Manh Nguyen Duc, Marta Fiocco, Lan Truong Thi Thanh, Tam Nguyen Hoai Thao, Buu Mai Thanh, Tu-Anh Nguyen, Nhat Le Thanh Hoang, Marc Choisy, Lam Phung Khanh, Nga Le Hong and Ronald B. Geskus, on behalf of the Covid-19 modelling team Oxford University Clinical Research Unit, Vietnam⁺ [2024] 'The latency time of the SARS-CoV-2 Delta variant in naive individuals from Vietnam', *to be submitted*

⁺ Duc Du Hong, Lam Phung Khanh, Leigh Jones, Marc Choisy, Nhat Le Thanh Hoang, Ronald Geskus, Sonia Lewycka, Thomas Kesteman, Trinh Dong Huu Khanh, Tung Trinh Son, Manh Nguyen Duc, Nguyet Nguyen Thi Minh, Thinh Ong Phuc, Trang Duong Thuy, Lieu Tran Thi Bich, Maia Rabaa.

Arntzen, V. H., Fiocco, M., Lakeman, I.M.M., Nielsen, M., Rodríguez-Girondo, M. [2024] 'A new inverse probability of selection weighted Cox model to deal with outcome-dependent sampling in survival analysis', *to be published in Biometrical Journal*

R Software packages

Arntzen, V.H. and Rodríguez-Girondo, M. [2023] '`wcox`: weights to correct for outcome dependent sampling in time to event data', *available from CRAN*

Arntzen, V.H. [2024] '`doublIn`: estimate incubation or latency time using doubly interval censored observations', *available from CRAN*

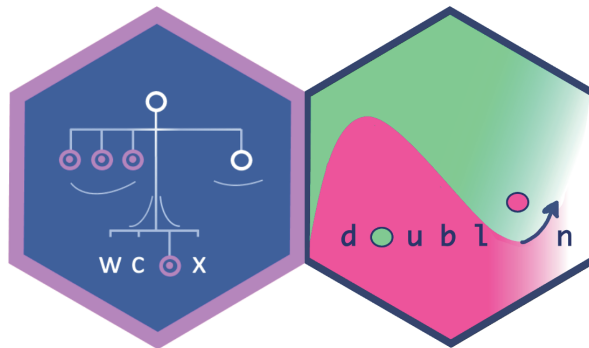


Figure 6.1: Logos corresponding to the two R Software packages developed for the work in this thesis: `wcox` and `doublIn`.