

DAFTAR PUSTAKA

- Anders, K.L., Indriani, C., Ahmad, R.A., Tantowijoyo, W., Arguni, E., Andari, B., Jewell, N.P., Rances, E., O'Neill, S.L., Simmons, C.P., Utarini, A., 2018. The AWED trial (Applying Wolbachia to Eliminate Dengue) to assess the efficacy of Wolbachia-infected mosquito deployments to reduce dengue incidence in Yogyakarta, Indonesia: study protocol for a cluster randomised controlled trial. *Trials* 19: 302. doi:10.1186/s13063-018-2670-z
- Balitbangkes, 2019. Laporan Nasional Hasil Riskesdas 2018.
- Bärnighausen, T., Oldenburg, C., Tugwell, P., Bommer, C., Ebert, C., Barreto, M., Djimeu, E., Haber, N., Waddington, H., Rockers, P., Sianesi, B., Bor, J., Fink, G., Valentine, J., Tanner, J., Stanley, T., Tchetgen, E., Atun, R., Vollmer, S., 2017. Quasi-experimental study designs series – Paper 7: assessing the assumptions. *Journal of Clinical Epidemiology* 89. doi:10.1016/j.jclinepi.2017.02.017
- Bernal, J.L., Cummins, S., Gasparrini, A., 2017. Interrupted time series regression for the evaluation of public health interventions: a tutorial. *Int J Epidemiol* 46: 348–355. doi:10.1093/ije/dyw098
- Bhatt, S., Gething, P.W., Brady, O.J., Messina, J.P., Farlow, A.W., Moyes, C.L., Drake, J.M., Brownstein, J.S., Hoen, A.G., Sankoh, O., Myers, M.F., George, D.B., Jaenisch, T., Wint, G.R.W., Simmons, C.P., Scott, T.W., Farrar, J.J., Hay, S.I., 2013. The global distribution and burden of dengue. *Nature* 496: 504–507. doi:10.1038/nature12060
- Bowman, L.R., Donegan, S., McCall, P.J., 2016. Is Dengue Vector Control Deficient in Effectiveness or Evidence?: Systematic Review and Meta-analysis. *PLoS Negl Trop Dis* 10: e0004551. doi:10.1371/journal.pntd.0004551
- Brathwaite Dick, O., San Martín, J.L., Montoya, R.H., del Diego, J., Zambrano, B., Dayan, G.H., 2012. The History of Dengue Outbreaks in the Americas. *Am J Trop Med Hyg* 87: 584–593. doi:10.4269/ajtmh.2012.11-0770
- Buchori, D., Mawan, A., Nurhayati, I., Aryati, A., Kusnanto, H., Hadi, U.K., 2022. Risk Assessment on the Release of Wolbachia-Infected *Aedes aegypti* in Yogyakarta, Indonesia. *Insects* 13: 924. doi:10.3390/insects13100924
- Carrington, L.B., Tran, B.C.N., Le, N.T.H., Luong, T.T.H., Nguyen, T.T., Nguyen, P.T., Nguyen, C.V.V., Nguyen, H.T.C., Vu, T.T., Vo, L.T., Le, D.T., Vu, N.T., Nguyen, G.T., Luu, H.Q., Dang, A.D., Hurst, T.P., O'Neill, S.L., Tran, V.T., Kien, D.T.H., Nguyen, N.M., Wolbers, M., Wills, B., Simmons, C.P., 2018. Field- and clinically derived estimates of Wolbachia-mediated blocking of dengue virus transmission potential in *Aedes aegypti* mosquitoes. *Proc Natl Acad Sci U S A* 115: 361–366. doi:10.1073/pnas.1715788115
- Cattarino, L., Rodriguez-Barraquer, I., Imai, N., Cummings, D.A.T., Ferguson, N.M., 2020. Mapping global variation in dengue transmission intensity. *Science Translational Medicine* 12: eaax4144. doi:10.1126/scitranslmed.aax4144
- Chairulfatah, A., Setiabudi, D., Agoes, R., van Sprundel, M., Colebunders, R., 2001. Hospital based clinical surveillance for dengue haemorrhagic fever in Bandung, Indonesia 1994–1995. *Acta Tropica* 80: 111–115. doi:10.1016/S0001-706X(01)00180-2
- Chan, M., Johansson, M.A., 2012. The Incubation Periods of Dengue Viruses. *PLOS ONE* 7: e50972. doi:10.1371/journal.pone.0050972
- Chen, Y., Li, N., Lourenço, J., Wang, L., Cazelles, B., Dong, L., Li, B., Liu, Y., Jit, M., Bosse, N.I., Abbott, S., Velayudhan, R., Wilder-Smith, A., Tian, H., Brady, O.J.,

2022. Measuring the effects of COVID-19-related disruption on dengue transmission in southeast Asia and Latin America: a statistical modelling study. *Lancet Infect Dis* 22: 657–667. doi:10.1016/S1473-3099(22)00025-1
- Chouin Carneiro, T., Dos Santos, F., 2017. Transmission of Major Arboviruses in Brazil: The Role of *Aedes aegypti* and *Aedes albopictus* Vectors. doi:10.5772/66946
- clinicaltrials.gov, 2020. A Cluster-Randomized Trial to Evaluate the Efficacy of Wolbachia-Infected *Aedes Aegypti* Mosquitoes in Reducing the Incidence of Arboviral Infection in Brazil (Clinical trial registration No. NCT04514107). clinicaltrials.gov.
- Collins, M.H., Potter, G.E., Hitchings, M.D.T., Butler, E., Wiles, M., Kennedy, J.K., Pinto, S.B., Teixeira, A.B.M., Casanovas-Massana, A., Roupheal, N.G., Deye, G.A., Simmons, C.P., Moreira, L.A., Nogueira, M.L., Cummings, D.A.T., Ko, A.I., Teixeira, M.M., Edupuganti, S., 2022. EVITA Dengue: a cluster-randomized controlled trial to Evaluate the efficacy of Wolbachia-Infected *Aedes aegypti* mosquitoes in reducing the incidence of Arboviral infection in Brazil. *Trials* 23: 185. doi:10.1186/s13063-022-05997-4
- Conroy, R.M., 2012. What hypotheses do “nonparametric” two-group tests actually test? *The Stata Journal* 12: 182–190.
- Demanou, M., Pouillot, R., Grandadam, M., Boisier, P., Kamgang, B., Hervé, J.P., Rogier, C., Rousset, D., Paupy, C., 2014. Evidence of Dengue Virus Transmission and Factors Associated with the Presence of Anti-Dengue Virus Antibodies in Humans in Three Major Towns in Cameroon. *PLOS Neglected Tropical Diseases* 8: e2950. doi:10.1371/journal.pntd.0002950
- Dorigatti, I., McCormack, C., Nedjati-Gilani, G., Ferguson, N.M., 2018. Using Wolbachia for dengue control: insights from modelling. *Trends Parasitol* 34: 102–113. doi:10.1016/j.pt.2017.11.002
- Dufault, S.M., Tanamas, S.K., Indriani, C., Utarini, A., Ahmad, R.A., Jewell, N.P., Simmons, C.P., Anders, K.L., 2022. Disruption of spatiotemporal clustering in dengue cases by wMel Wolbachia in Yogyakarta, Indonesia. *Sci Rep* 12: 9890. doi:10.1038/s41598-022-13749-2
- Durovni, B., Saraceni, V., Eppinghaus, A., Riback, T.I.S., Moreira, L.A., Jewell, N.P., Dufault, S.M., O’Neill, S.L., Simmons, C.P., Tanamas, S.K., Anders, K.L., 2019a. The impact of large-scale deployment of Wolbachia mosquitoes on arboviral disease incidence in Rio de Janeiro and Niterói, Brazil: study protocol for a controlled interrupted time series analysis using routine disease surveillance data. *F1000Res* 8: 1328. doi:10.12688/f1000research.19859.1
- Durovni, B., Saraceni, V., Eppinghaus, A., Riback, T.I.S., Moreira, L.A., Jewell, N.P., Dufault, S.M., O’Neill, S.L., Simmons, C.P., Tanamas, S.K., Anders, K.L., 2019b. The impact of large-scale deployment of Wolbachia mosquitoes on dengue and other *Aedes*-borne diseases in Rio de Janeiro and Niterói, Brazil: study protocol for a controlled interrupted time series analysis using routine disease surveillance data. *F1000Res* 8: 1328. doi:10.12688/f1000research.19859.2
- Dutra, H.L.C., Rocha, M.N., Dias, F.B.S., Mansur, S.B., Caragata, E.P., Moreira, L.A., 2016. Wolbachia Blocks Currently Circulating Zika Virus Isolates in Brazilian *Aedes aegypti* Mosquitoes. *Cell Host Microbe* 19: 771–774. doi:10.1016/j.chom.2016.04.021
- E. Setiati, T., F. P. Wagenaar, J., D. de Kruif, M., T. A Mairuhu, A., C. M van Grop, E., Soemantri, A., 2006. Changing Epidemiology of Dengue Haemorrhagic Fever in Indonesia.

- Edenborough, K.M., Flores, H.A., Simmons, C.P., Fraser, J.E., 2021. Using Wolbachia to Eliminate Dengue: Will the Virus Fight Back? *Journal of Virology* 95: 10.1128/jvi.02203-20. doi:10.1128/jvi.02203-20
- Elsinga, J., van der Veen, H.T., Gerstenbluth, I., Burgerhof, J.G.M., Dijkstra, A., Grobusch, M.P., Tami, A., Bailey, A., 2017. Community participation in mosquito breeding site control: an interdisciplinary mixed methods study in Curaçao. *Parasites & Vectors* 10: 434. doi:10.1186/s13071-017-2371-6
- Ferguson, N.M., Kien, D.T.H., Clapham, H., Aguas, R., Trung, V.T., Chau, T.N.B., Popovici, J., Ryan, P.A., O'Neill, S.L., McGraw, E.A., Long, V.T., Dui, L.T., Nguyen, H.L., Chau, N.V.V., Wills, B., Simmons, C.P., 2015. Modeling the impact on virus transmission of Wolbachia-mediated blocking of dengue virus infection of *Aedes aegypti*. *Sci Transl Med* 7: 279ra37. doi:10.1126/scitranslmed.3010370
- Flores, H.A., O'Neill, S.L., 2018. Controlling vector-borne diseases by releasing modified mosquitoes. *Nat Rev Microbiol* 16: 508–518. doi:10.1038/s41579-018-0025-0
- Flores, H.A., Taneja de Bruyne, J., O'Donnell, T.B., Tuyet Nhu, V., Thi Giang, N., Thi Xuan Trang, H., Thi Thuy Van, H., Thi Long, V., Thi Dui, L., Le Anh Huy, H., Thi Le Duyen, H., Thi Van Thuy, N., Thanh Phong, N., Van Vinh Chau, N., Thi Hue Kien, D., Thuy Vi, T., Wills, B., O'Neill, S.L., Simmons, C.P., Carrington, L.B., 2020. Multiple Wolbachia strains provide comparative levels of protection against dengue virus infection in *Aedes aegypti*. *PLoS Pathog* 16: e1008433. doi:10.1371/journal.ppat.1008433
- Graham, R.R., Juffrie, M., Tan, R., Hayes, C.G., Laksono, I., Ma'roef, C., Erlin, Sutaryo, Porter, K.R., Halstead, S.B., 1999. A prospective seroepidemiologic study on dengue in children four to nine years of age in Yogyakarta, Indonesia I. studies in 1995-1996. *The American Journal of Tropical Medicine and Hygiene* 61: 412–419. doi:10.4269/ajtmh.1999.61.412
- Guzman, M.G., Gubler, D.J., Izquierdo, A., Martinez, E., Halstead, S.B., 2016. Dengue infection. *Nature Reviews Disease Primers* 2: 1–25. doi:10.1038/nrdp.2016.55
- Halstead, S.B., 2007. Dengue. *The Lancet* 370: 1644–1652. doi:10.1016/S0140-6736(07)61687-0
- Handley, M.A., Lyles, C.R., McCulloch, C., Cattamanchi, A., 2018. Selecting and Improving Quasi-Experimental Designs in Effectiveness and Implementation Research. *Annu Rev Public Health* 39: 5–25. doi:10.1146/annurev-publhealth-040617-014128
- Handley, M.A., Schillinger, D., Shiboski, S., 2011. Quasi-Experimental Designs in Practice-based Research Settings: Design and Implementation Considerations. *J Am Board Fam Med* 24: 589–596. doi:10.3122/jabfm.2011.05.110067
- Harapan, H., Michie, A., Mudatsir, M., Sasmono, R.T., Imrie, A., 2019. Epidemiology of dengue hemorrhagic fever in Indonesia: analysis of five decades data from the National Disease Surveillance. *BMC Res Notes* 12: 1–6. doi:10.1186/s13104-019-4379-9
- Haryanto, B., 2018. Indonesia Dengue Fever: Status, Vulnerability, and Challenges, Current Topics in Tropical Emerging Diseases and Travel Medicine. IntechOpen. doi:10.5772/intechopen.82290
- Hassan, M.R., Azit, N.A., Fadzil, S.M., Ghani, S.R.A., Ahmad, N., Nawi, A.M., 2021. Insecticide resistance of Dengue vectors in South East Asia: a systematic review. *Afr Health Sci* 21: 1124–1140. doi:10.4314/ahs.v21i3.21

- Hien, N.T., Anh, D.D., Le, N.H., Yen, N.T., Phong, T.V., Nam, V.S., Duong, T.N., Nguyen, N.B., Huong, D.T.T., Hung, L.Q., Trinh, C.N.T., Hoang, N.V., Mai, V.Q., Nghia, L.T., Dong, N.T., Tho, L.H., Kutcher, S., Hurst, T.P., Montgomery, J.L., Woolfit, M., Rances, E., Kyrylos, P., Anders, K.L., Nguyen, L., Brown-Kenyon, J., Caird, A., McLean, B.J., Iturbe-Ormaetxe, I., Ritchie, S.A., O'Neill, S.L., Ryan, P.A., 2022. Environmental factors influence the local establishment of *Wolbachia* in *Aedes aegypti* mosquitoes in two small communities in central Vietnam. doi:10.12688/gatesopenres.13347.2
- Indriani, C., Ahmad, R.A., Wiratama, B.S., Arguni, E., Supriyati, E., Sasmono, R.T., Kisworini, F.Y., Ryan, P.A., O'Neill, S.L., Simmons, C.P., Utarini, A., Anders, K.L., 2018. Baseline Characterization of Dengue Epidemiology in Yogyakarta City, Indonesia, before a Randomized Controlled Trial of Wolbachia for Arboviral Disease Control. *The American Journal of Tropical Medicine and Hygiene* 99: 1299–1307. doi:10.4269/ajtmh.18-0315
- Indriani, C., Tanamas, S.K., Khasanah, U., Ansari, M.R., Rubangi, Tantowijoyo, W., Ahmad, R.A., Dufault, S.M., Jewell, N.P., Utarini, A., Simmons, C.P., Anders, K.L., 2023. Impact of randomised wmel Wolbachia deployments on notified dengue cases and insecticide fogging for dengue control in Yogyakarta City. *Global Health Action* 16: 2166650. doi:10.1080/16549716.2023.2166650
- Indriani, C., Tantowijoyo, W., Rancès, E., Andari, B., Prabowo, E., Yusdi, D., Ansari, M.R., Wardana, D.S., Supriyati, E., Nurhayati, I., Ernesia, I., Setyawan, S., Fitriana, I., Arguni, E., Amelia, Y., Ahmad, R.A., Jewell, N.P., Dufault, S.M., Ryan, P.A., Green, B.R., McAdam, T.F., O'Neill, S.L., Tanamas, S.K., Simmons, C.P., Anders, K.L., Utarini, A., 2020. Reduced dengue incidence following deployments of Wolbachia-infected *Aedes aegypti* in Yogyakarta, Indonesia: a quasi-experimental trial using controlled interrupted time series analysis. *Gates Open Res* 4. doi:10.12688/gatesopenres.13122.1
- Karyanti, M.R., Uiterwaal, C.S.P.M., Kusriastuti, R., Hadinegoro, S.R., Rovers, M.M., Heesterbeek, H., Hoes, A.W., Bruijning-Verhagen, P., 2014. The changing incidence of Dengue Haemorrhagic Fever in Indonesia: a 45-year registry-based analysis. *BMC Infect Dis* 14: 412. doi:10.1186/1471-2334-14-412
- Kementrian Kesehatan RI, 2021a. Informasi Singkat DBD 2020 [WWW Document]. URL https://sehatnegeriku.kemkes.go.id/wp-content/uploads/2020/12/Screenshot_20201203-105631_Office.jpg (accessed 7.7.21).
- Kementrian Kesehatan RI, 2021b. Strategi Nasional Penanggulangan Dengue 2021-2025.
- Kementrian Kesehatan RI, 2020. Profil Kesehatan Indonesia Tahun 2019. Jakarta.
- Kementrian Kesehatan RI, 2018. Profil Kesehatan Indonesia Tahun 2017.
- Kementrian Kesehatan RI, 2017a. Peraturan Menteri Kesehatan Republik Indonesia, Nomor 50 Tahun 2017 Tentang Standar Baku Mutu Kesehatan Lingkungan dan Persyaratan Kesehatan untuk Vektor dan Binatang Pembawa Penyakit Serta Pengendaliannya.
- Kementrian Kesehatan RI, 2017b. Pedoman Pencegahan dan Pengendalian Demam Berdarah Dengue di Indonesia. Jakarta.
- Kementrian Kesehatan RI, 2010. Demam Berdarah di Indonesia.
- Kementrian Riset, Teknologi dan Pendidikan Tinggi, 2017. Laporan Kajian Risiko Terhadap Pelepasan Nyamuk *Ae.aegypti* ber-Wolbachia.
- Knudsen, A.B., Slooff, R., 1992. Vector-borne disease problems in rapid urbanization: new approaches to vector control. *Bull World Health Organ* 70: 1–6.

- Koyadun, S., Butraporn, P., Kittayapong, P., 2012. Ecologic and Sociodemographic Risk Determinants for Dengue Transmission in Urban Areas in Thailand. *Interdisciplinary Perspectives on Infectious Diseases* 2012: e907494. doi:10.1155/2012/907494
- Kyle, J.L., Harris, E., 2008. Global Spread and Persistence of Dengue. *Annu. Rev. Microbiol.* 62: 71–92. doi:10.1146/annurev.micro.62.081307.163005
- Lin, H., Liu, T., Song, T., Lin, L., Xiao, J., Lin, J., He, J., Zhong, H., Hu, W., Deng, A., Peng, Z., Ma, W., Zhang, Y., 2016. Community Involvement in Dengue Outbreak Control: An Integrated Rigorous Intervention Strategy. *PLOS Neglected Tropical Diseases* 10: e0004919. doi:10.1371/journal.pntd.0004919
- McMeniman, C.J., Lane, R.V., Cass, B.N., Fong, A.W.C., Sidhu, M., Wang, Y.-F., O'Neill, S.L., 2009. Stable introduction of a life-shortening Wolbachia infection into the mosquito *Aedes aegypti*. *Science* 323: 141–144. doi:10.1126/science.1165326
- Miller, C.J., Smith, S.N., Pugatch, M., 2020. Experimental and quasi-experimental designs in implementation research. *Psychiatry Research, VSI:Implementation Science* 283: 112452. doi:10.1016/j.psychres.2019.06.027
- Mishra, N., Shrivastava, N.K., Nayak, A., Singh, H., 2018. Wolbachia: A prospective solution to mosquito borne diseases. *Int. J. Mosq. Res.* 5: 01–08.
- Moreira, L.A., Iturbe-Ormaetxe, I., Jeffery, J.A., Lu, G., Pyke, A.T., Hedges, L.M., Rocha, B.C., Hall-Mendelin, S., Day, A., Riegler, M., Hugo, L.E., Johnson, K.N., Kay, B.H., McGraw, E.A., Hurk, A.F. van den, Ryan, P.A., O'Neill, S.L., 2009. A Wolbachia Symbiont in *Aedes aegypti* Limits Infection with Dengue, Chikungunya, and Plasmodium. *Cell* 139: 1268–1278. doi:10.1016/j.cell.2009.11.042
- Murray, J.V., Jansen, C.C., De Barro, P., 2016. Risk Associated with the Release of Wolbachia-Infected *Aedes aegypti* Mosquitoes into the Environment in an Effort to Control Dengue. *Front Public Health* 4: 43. doi:10.3389/fpubh.2016.00043
- Nadjib, M., Setiawan, E., Putri, S., Nealon, J., Beucher, S., Hadinegoro, S.R., Permanasari, V.Y., Sari, K., Wahyono, T.Y.M., Kristin, E., Wirawan, D.N., Thabrany, H., 2019. Economic burden of dengue in Indonesia. *PLoS Negl Trop Dis* 13: e0007038. doi:10.1371/journal.pntd.0007038
- Nalim, S., 1996. Experiences in Comprehensive Vector Control in Indonesia. *Media Penelitian dan Pengembangan Kesehatan* 6: 238451. doi:10.22435/mpk.v6i02
- Nazni, W.A., Hoffmann, A.A., NoorAfizah, A., Cheong, Y.L., Mancini, M.V., Golding, N., Kamarul, G.M.R., Arif, M.A.K., Thohir, H., NurSyamimi, H., ZatilAqmar, M.Z., NurRuqqayah, M., NorSyazwani, A., Faiz, A., Irfan, F.-R.M.N., Rubaaini, S., Nuradila, N., Nizam, N.M.N., Irwan, S.M., Endersby-Harshman, N.M., White, V.L., Ant, T.H., Herd, C.S., Hasnor, A.H., AbuBakar, R., Hapsah, D.M., Khadijah, K., Kamilan, D., Lee, S.C., Paid, Y.M., Fadzilah, K., Topek, O., Gill, B.S., Lee, H.L., Sinkins, S.P., 2019. Establishment of Wolbachia Strain wAlbB in Malaysian Populations of *Aedes aegypti* for Dengue Control. *Current Biology* 29: 4241–4248.e5. doi:10.1016/j.cub.2019.11.007
- Nealon, J., Bouckennooghe, A., Cortes, M., Coudeville, L., Frago, C., Macina, D., Tam, C.C., 2020. Dengue Endemicity, Force of Infection, and Variation in Transmission Intensity in 13 Endemic Countries. *J Infect Dis* 225: 75–83. doi:10.1093/infdis/jiaa132
- Nealon, J., Taurel, A.-F., Capeding, M.R., Tran, N.H., Hadinegoro, S.R., Chotpitayasunondh, T., Chong, C.K., Wartel, T.A., Beucher, S., Frago, C., Moureau, A., Simmerman, M., Laot, T., L'Azou, M., Bouckennooghe, A., 2016.

- Symptomatic Dengue Disease in Five Southeast Asian Countries: Epidemiological Evidence from a Dengue Vaccine Trial. *PLOS Neglected Tropical Diseases* 10: e0004918. doi:10.1371/journal.pntd.0004918
- O'Neill, S.L., Ryan, P.A., Turley, A.P., Wilson, G., Retzki, K., Iturbe-Ormaetxe, I., Dong, Y., Kenny, N., Paton, C.J., Ritchie, S.A., Brown-Kenyon, J., Stanford, D., Wittmeier, N., Jewell, N.P., Tanamas, S.K., Anders, K.L., Simmons, C.P., 2019. Scaled deployment of Wolbachia to protect the community from dengue and other *Aedes* transmitted arboviruses. *Gates Open Res* 2. doi:10.12688/gatesopenres.12844.3
- Ooi, E.-E., Gubler, D.J., 2009a. Dengue in Southeast Asia: epidemiological characteristics and strategic challenges in disease prevention. *Cadernos de Saúde Pública* 25: S115–S124. doi:10.1590/S0102-311X2009001300011
- Ooi, E.-E., Gubler, D.J., 2009b. Dengue in Southeast Asia: epidemiological characteristics and strategic challenges in disease prevention. *Cad. Saúde Pública* 25: S115–S124. doi:10.1590/S0102-311X2009001300011
- O'Reilly, K.M., Hendrickx, E., Kharisma, D.D., Wilastonegoro, N.N., Carrington, L.B., Elyazar, I.R.F., Kucharski, A.J., Lowe, R., Flasche, S., Pigott, D.M., Reiner, R.C., Edmunds, W.J., Hay, S.I., Yakob, L., Shepard, D.S., Brady, O.J., 2019. Estimating the burden of dengue and the impact of release of wMel Wolbachia-infected mosquitoes in Indonesia: a modelling study. *BMC Medicine* 17: 172. doi:10.1186/s12916-019-1396-4
- Pemerintah Kota Yogyakarta, 2021. Geografis Kota Yogyakarta [WWW Document]. URL <https://www.jogjakota.go.id/pages/geografis> (accessed 3.14.21).
- Pinto, S.B., Riback, T.I.S., Sylvestre, G., Costa, G., Peixoto, J., Dias, F.B.S., Tanamas, S.K., Simmons, C.P., Dufault, S.M., Ryan, P.A., O'Neill, S.L., Muzzi, F.C., Kutcher, S., Montgomery, J., Green, B.R., Smithyman, R., Eppinghaus, A., Saraceni, V., Durovni, B., Anders, K.L., Moreira, L.A., 2021. Effectiveness of Wolbachia-infected mosquito deployments in reducing the incidence of dengue and other *Aedes*-borne diseases in Niterói, Brazil: A quasi-experimental study. *PLOS Neglected Tropical Diseases* 15: e0009556. doi:10.1371/journal.pntd.0009556
- Pocquet, N., O'Connor, O., Flores, H.A., Tutagata, J., Pol, M., Hooker, D.J., Inizan, C., Russet, S., Duyvestyn, J.M., Pacidônio, E.C., Girault, D., Gonçalves, D. da S., Minier, M., Touzain, F., Chalus, E., Lucien, K., Cheilan, F., Derycke, T., Laumond, S., Simmons, C.P., Dupont-Rouzeyrol, M., Rossi, N., 2021. Assessment of fitness and vector competence of a New Caledonia wMel *Aedes aegypti* strain before field-release. *PLOS Neglected Tropical Diseases* 15: e0009752. doi:10.1371/journal.pntd.0009752
- Prayitno, A., Taurel, A.-F., Nealon, J., Satari, H.I., Karyanti, M.R., Sekartini, R., Soedjatmiko, S., Gunardi, H., Medise, B.E., Sasmono, R.T., Simmerman, J.M., Bouckenoghe, A., Hadinegoro, S.R., 2017. Dengue seroprevalence and force of primary infection in a representative population of urban dwelling Indonesian children. *PLOS Neglected Tropical Diseases* 11: e0005621. doi:10.1371/journal.pntd.0005621
- Rakhmani, A.N., Limpanont, Y., Kaewkungwal, J., Okanurak, K., 2018. Factors associated with dengue prevention behaviour in Lowokwaru, Malang, Indonesia: a cross-sectional study. *BMC Public Health* 18: 619. doi:10.1186/s12889-018-5553-z
- Rao, M.R.K., Padhy, R., Das, M., 2018. Episodes of the epidemiological factors correlated with prevailing viral infections with dengue virus and molecular

- characterization of serotypespecific dengue virus circulation in eastern India. *Infection Genetics and Evolution* 58: 40–49.
- Rico-Hesse, R., 2009. Dengue Virus Virulence and Transmission Determinants. *Dengue Virus* 338: 45–55. doi:10.1007/978-3-642-02215-9_4
- Rivero, A., Vézilier, J., Weill, M., Read, A.F., Gandon, S., 2010. Insecticide Control of Vector-Borne Diseases: When Is Insecticide Resistance a Problem? *PLoS Pathog* 6: e1001000. doi:10.1371/journal.ppat.1001000
- Rodríguez, M.M., Ruiz, A., Piedra, L., Gutierrez, G., Rey, J., Cruz, M., Bisset, J.A., 2020. Multiple insecticide resistance in *Aedes aegypti* (Diptera: Culicidae) from Boyeros municipality, Cuba and associated mechanisms. *Acta Tropica* 212: 105680. doi:10.1016/j.actatropica.2020.105680
- Ross, P.A., 2021. Designing effective Wolbachia release programs for mosquito and arbovirus control. *Acta Tropica* 222: 106045. doi:10.1016/j.actatropica.2021.106045
- Ross, P.A., Axford, J.K., Callahan, A.G., Richardson, K.M., Hoffmann, A.A., 2019. Persistent deleterious effects of an unstable deleterious Wolbachia infection. doi:10.1101/853473
- Ross, P.A., Robinson, K.L., Yang, Q., Callahan, A.G., Schmidt, T.L., Axford, J.K., Coquilleau, M.P., Staunton, K.M., Townsend, M., Ritchie, S.A., Lau, M.-J., Gu, X., Hoffmann, A.A., 2022. A decade of stability for wMel Wolbachia in natural *Aedes aegypti* populations. *PLOS Pathogens* 18: e1010256. doi:10.1371/journal.ppat.1010256
- Ryan, P.A., Turley, A.P., Wilson, G., Hurst, T.P., Retzki, K., Brown-Kenyon, J., Hodgson, L., Kenny, N., Cook, H., Montgomery, B.L., Paton, C.J., Ritchie, S.A., Hoffmann, A.A., Jewell, N.P., Tanamas, S.K., Anders, K.L., Simmons, C.P., O'Neill, S.L., 2020a. Establishment of wMel Wolbachia in *Aedes aegypti* mosquitoes and reduction of local dengue transmission in Cairns and surrounding locations in northern Queensland, Australia. *Gates Open Res* 3: 1547. doi:10.12688/gatesopenres.13061.2
- Ryan, P.A., Turley, A.P., Wilson, G., Hurst, T.P., Retzki, K., Brown-Kenyon, J., Hodgson, L., Kenny, N., Cook, H., Montgomery, B.L., Paton, C.J., Ritchie, S.A., Hoffmann, A.A., Jewell, N.P., Tanamas, S.K., Anders, K.L., Simmons, C.P., O'Neill, S.L., 2020b. Establishment of wMel Wolbachia in *Aedes aegypti* mosquitoes and reduction of local dengue transmission in Cairns and surrounding locations in northern Queensland, Australia. doi:10.12688/gatesopenres.13061.2
- Sasmono, R.T., Taurel, A.-F., Prayitno, A., Sitompul, H., Yohan, B., Hayati, R.F., Bouckennooghe, A., Hadinegoro, S.R., Nealon, J., 2018. Dengue virus serotype distribution based on serological evidence in pediatric urban population in Indonesia. *PLOS Neglected Tropical Diseases* 12: e0006616. doi:10.1371/journal.pntd.0006616
- Sasmono, R.T., Wahid, I., Trimarsanto, H., Yohan, B., Wahyuni, S., Hertanto, M., Yusuf, I., Mubin, H., Ganda, I.J., Latief, R., Bifani, P.J., Shi, P.-Y., Schreiber, M.J., 2015. Genomic analysis and growth characteristic of dengue viruses from Makassar, Indonesia. *Infection, Genetics and Evolution* 32: 165–177. doi:10.1016/j.meegid.2015.03.006
- Sommerfeld, J., Kroeger, A., 2012. Eco-bio-social research on dengue in Asia: a multicountry study on ecosystem and community-based approaches for the control of dengue vectors in urban and peri-urban Asia. *Pathog Glob Health* 106: 428–435. doi:10.1179/2047773212Y.0000000055

- Stewart Ibarra, A., Luzadis, V., Borbor-Cordova, M.J., Silva, M., Ordonez, T., Beltran Ayala, F., Ryan, S., 2014. A Socio ecological analysis of community perceptions of dengue fever and *aedes aegypti* in Machala, Equador. *BMC public health* 14: 1135. doi:10.1186/1471-2458-14-1135
- Stock, I., 2016. [Dengue fever--not just a tropical infectious disease]. *Med Monatsschr Pharm* 39: 117–122.
- Tan, L.K., Low, S.L., Sun, H., Shi, Y., Liu, L., Lam, S., Tan, H.H., Ang, L.W., Wong, W.Y., Chua, R., Teo, D., Ng, L.C., Cook, A.R., 2019. Force of Infection and True Infection Rate of Dengue in Singapore: Implications for Dengue Control and Management. *Am J Epidemiol* 188: 1529–1538. doi:10.1093/aje/kwz110
- Tantowijoyo, W., Andari, B., Arguni, E., Budiwati, N., Nurhayati, I., Fitriana, I., Ernesia, I., Daniwijaya, E.W., Supriyati, E., Yusdiana, D.H., Victorius, M., Wardana, D.S., Ardiansyah, H., Ahmad, R.A., Ryan, P.A., Simmons, C.P., Hoffmann, A.A., Rancès, E., Turley, A.P., Johnson, P., Utarini, A., O'Neill, S.L., 2020. Stable establishment of wMel Wolbachia in *Aedes aegypti* populations in Yogyakarta, Indonesia. *PLOS Neglected Tropical Diseases* 14: e0008157. doi:10.1371/journal.pntd.0008157
- Tapia-Conyer, R., Méndez-Galván, J., Burciaga-Zúñiga, P., 2012. Community participation in the prevention and control of dengue: the patio limpio strategy in Mexico. *Paediatr Int Child Health* 32: 10–13. doi:10.1179/2046904712Z.000000000047
- Thai, K.T.D., Nishiura, H., Hoang, P.L., Tran, N.T.T., Phan, G.T., Le, H.Q., Tran, B.Q., Nguyen, N.V., Vries, P.J. de, 2011. Age-Specificity of Clinical Dengue during Primary and Secondary Infections. *PLOS Neglected Tropical Diseases* 5: e1180. doi:10.1371/journal.pntd.0001180
- Thomas, S.J., Yoon, I.-K., 2019. A review of Dengvaxia®: development to deployment. *Hum Vaccin Immunother* 15: 2295–2314. doi:10.1080/21645515.2019.1658503
- Toledo, M.E., Vanlerberghe, V., Baly, A., Ceballos, E., Valdes, L., Searret, M., Boelaert, M., Van der Stuyft, P., 2007. Towards active community participation in dengue vector control: results from action research in Santiago de Cuba, Cuba. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 101: 56–63. doi:10.1016/j.trstmh.2006.03.006
- Tomashek, M., 2011. Dengue fever., in: CDC Health Information for International Travel 2012: The Yellow Book. USA: Oxford University Press., pp. 156–161.
- Tuiskunen Bäck, A., Lundkvist, Å., 2013. Dengue viruses – an overview. *Infection Ecology & Epidemiology* 3: 19839. doi:10.3402/iee.v3i0.19839
- US CDC, 2001. Updated Guidelines for Evaluating Public Health Surveillance Systems [WWW Document]. URL <https://www.cdc.gov/mmwr/preview/mmwrhtml/rr5013a1.htm> (accessed 6.4.21).
- Utama, I.M.S., Lukman, N., Sukmawati, D.D., Alisjahbana, B., Alam, A., Murniati, D., Utama, I.M.G.D.L., Puspitasari, D., Kosasih, H., Laksono, I., Karyana, M., Karyanti, M.R., Hapsari, M.M.D.E. a. H., Meutia, N., Liang, C.J., Wulan, W.N., Lau, C.-Y., Parwati, K.T.M., 2019. Dengue viral infection in Indonesia: Epidemiology, diagnostic challenges, and mutations from an observational cohort study. *PLOS Neglected Tropical Diseases* 13: e0007785. doi:10.1371/journal.pntd.0007785
- Utarini, A., Indriani, C., Ahmad, R.A., Tantowijoyo, W., Arguni, E., Ansari, M.R., Supriyati, E., Wardana, D.S., Meitika, Y., Ernesia, I., Nurhayati, I., Prabowo, E., Andari, B., Green, B.R., Hodgson, L., Cutcher, Z., Rancès, E., Ryan, P.A., O'Neill, S.L., Dufault, S.M., Tanamas, S.K., Jewell, N.P., Anders, K.L.,

- Simmons, C.P., 2021. Efficacy of Wolbachia-Infected Mosquito Deployments for the Control of Dengue. *New England Journal of Medicine* 384: 2177–2186. doi:10.1056/NEJMoa2030243
- VCAG WHO, 2016. WHO | Mosquito (vector) control emergency response and preparedness for Zika virus [WWW Document]. *WHO*. URL http://www.who.int/neglected_diseases/news/mosquito_vector_control_response/en/ (accessed 5.4.21).
- Velez, I.D., Santacruz, E., Kutcher, S.C., Duque, S.L., Uribe, A., Barajas, J., Gonzalez, S., Patino, A.C., Zuluaga, L., Martinez, L., Muñoz, E., Mejia, M.C., Arbelaez, M.P., Pulido, H., Jewell, N.P., Dufault, S.M., O'Neill, S.L., Simmons, C.P., Anders, K.L., Tanamas, S.K., 2019. The impact of city-wide deployment of Wolbachia-carrying mosquitoes on arboviral disease incidence in Medellín and Bello, Colombia: study protocol for an interrupted time-series analysis and a test-negative design study. *PLoS ONE* 14: e0218882. doi:10.1371/journal.pone.0218882
- Vicente, C.R., Herbinger, K.-H., Junior, C.C., Romano, C.M., Cabidelle, A. de S.A., Fröschl, G., 2017. Determination of clusters and factors associated with dengue dispersion during the first epidemic related to Dengue virus serotype 4 in Vitória, Brazil. *PLOS ONE* 12: e0175432. doi:10.1371/journal.pone.0175432
- WHO, 2023. Report on insecticide resistance in *Aedes* mosquitoes (*Aedes aegypti*, *Ae. albopictus*, *Ae. vittatus*) in WHO South-East Asia Region countries.
- WHO, 2021. Dengue [WWW Document]. URL <https://www.who.int/westernpacific/health-topics/dengue-and-severe-dengue> (accessed 7.7.21).
- WHO, 2020. Dengue and severe dengue [WWW Document]. *World Health Organization*. URL <https://www.who.int/news-room/fact-sheets/detail/dengue-and-severe-dengue> (accessed 3.9.21).
- WHO (Ed.), 2011. Comprehensive guidelines for prevention and control of dengue and dengue haemorrhagic fever, Rev. and expanded. ed. ed, SEARO Technical publication series. World Health Organization Regional Office for South-East Asia, New Delhi, India.
- Wijayanti, S.P.M., Porphyre, T., Chase-Topping, M., Rainey, S.M., McFarlane, M., Schnettler, E., Biek, R., Kohl, A., 2016. The Importance of Socio-Economic Versus Environmental Risk Factors for Reported Dengue Cases in Java, Indonesia. *PLOS Neglected Tropical Diseases* 10: e0004964. doi:10.1371/journal.pntd.0004964
- Wilder-Smith, A., Flasche, S., Smith, P.G., 2019. Vaccine-attributable severe dengue in the Philippines. *The Lancet* 394: 2151–2152. doi:10.1016/S0140-6736(19)32525-5
- WMP Yogyakarta, 2020. Siaran Pers - Seremoni Perluasan Manfaat Nyamuk Ber-Wolbachia di Kota Yogyakarta [WWW Document]. URL <http://www.eliminatedengue.com/yogyakarta/download/view/publication/429> (accessed 7.6.22).
- Ye, Y.H., Carrasco, A.M., Frentiu, F.D., Chenoweth, S.F., Beebe, N.W., Hurk, A.F. van den, Simmons, C.P., O'Neill, S.L., McGraw, E.A., 2015. Wolbachia Reduces the Transmission Potential of Dengue-Infected *Aedes aegypti*. *PLOS Neglected Tropical Diseases* 9: e0003894. doi:10.1371/journal.pntd.0003894
- Zahir, A., Ullah, A., Mussawar, S., Mussawar, A., 2016. Community Participation, Dengue Fever Prevention and Control Practices in Swat, Pakistan. *International Journal of MCH and AIDS* 5: 39–45.