

DAFTAR PUSTAKA

- Acharibasam, J. W., & Anuga, S. W. (2018). Psychological distance of climatechange and mental health risks assessment of smallholder farmers in Northern Ghana: Is habituation a threat to climate change? *Climate Risk Management*, 21
- Assis, C.R., Linhares, A.G., Cabrera, M.P., et al., 2018. Erythrocyte acetylcholinesterase as biomarker of pesticide exposure: new and forgotten insights. *Environmental Science and Pollution Research*, 25(19), 18364-18376.
- Badan Pusat Statistik (BPS) Kabupaten Magelang, 2020. Kabupaten Magelang Dalam Angka 2020. BPS Kabupaten Magelang.
- Barr, D.B., 2008. Biomonitoring of exposure to pesticides. *Journal of chemical health and safety*, 15(6), 20-29.
- Banday, T. H., B. Tathineni, M. S. Desai., V. Naik., 2015 Predictors of morbidity and mortality in organophosphorus poisoning: A case study in Rural Hospital in Karnataka, India. *North American Journal of Medical Sciences*. 7(6): 259-265.
- Brew, B., Inder, K., Allen, J., Thomas, M., & Kelly, B. (2016). The health and wellbeing of Australian farmers: A longitudinal cohort study. *BMC Public Health*, 16(1). Baehr, M., & Frotscher, M. (2005). *Duus' Tropical Diagnosis In Neurology*. New York: Thieme.
- Chatterjee S., Pratina B., Chaklader M. 2011. Pesticide Induced Alterations in Marrow Physiology and Depletion of Stem and Stromal Progenitor Population: An Experimental Model to Study the Toxic Effects of Pesticide. *Environmental Toxicology*.
- Chen J, Liu G, Kang Y, Wu B, Sun R, Zhou C, et al. Coal utilization in China: environmental impacts and human health. *Environ Geochem Health*. 2014;36:735–753.
- Cokugras, NA. 2003. Butyrylcholinesterase : Structure and Physiological Importance. *Turkish Journal of Biochemistry*; 28 (2); 54-61.
- Corral, S. A., de Angel, V., Salas, N., Zúñiga-Venegas, L., Gaspar, P. A., & Pancetti, F. (2017). Cognitive impairment in agricultural workers and nearby residents exposed to pesticides in the Coquimbo Region of Chile. *Neurotoxicology and Teratology*, 62.
- Costa LG, Cole TB, Vitalone A, and Furlong CE. 2005. Measurement of paraoxonase (PON1) status as a potential biomarker of susceptibility to organophosphate toxicity. *Clinica Chimica Acta*, vol. 352, no. 1-2, pp. 37-47.
- David, L., Dambrun, M., Harrington, R., Streith, M., & Michaud, A. 2021. Psychological and physical health of organic and conventional farmers: A review. *Sustainability (Switzerland)*, 13(20), 1–18. <https://doi.org/10.3390/su132011384>

- DellaValle, C. T., Andreotti, G., Alavanja, M. C. R., Hoppin, J. A., & Hines, C. J. 2012. Risk-accepting personality and personal protective equipment use within the agricultural health study. *Journal of Agromedicine*, 17(3), 264-276. <https://doi.org/10.1080/1059924X.2012.686390>
- Davies, R., Ahmed, G., Freer, T., 2000. Chronic exposure to organophosphates: background and clinical picture. *Advances in Psychiatric Treatment*, 6(3), 187–192.
- Dermawan, B., 2013. Hubungan antara Aktivitas Asetilkolinesterase Darah dengan Tekanan Darah Petani yang Terpapar Organofosfat. Skripsi. Universitas Diponegoro. Semarang.
- El-Demerdash, F. M. 2011. Lipid peroxidation, oxidative stress and acetylcholinesterase in rat brain exposed to organophosphate and pyrethroid insecticides. *Food and chemical toxicology*, 49(6), 1346-1352.
- Etemad, L., Moshiri, M., Moallem, S.A., 2014. Chronic toxicity of organophosphorus compounds. In *Basic and Clinical Toxicology of Organophosphorus Compounds* (pp. 79-118). Springer, London.
- Faria, N. M. X., Fassa, A. G., Meucci, R. D., Fiori, N. S., & Miranda, V. I. 2014. Occupational exposure to pesticides, nicotine and minor psychiatric disorders among tobacco farmers in southern Brazil. *NeuroToxicology*, 45, 347–354. <https://doi.org/10.1016/j.neuro.2014.05.002>
- Garipey, G., Nitka, D., & Schmitz, N. 2010. The association between obesity and anxiety disorders in the population: A systematic review and meta analysis. *International Journal of Obesity*, 34(3), 407–419. <https://doi.org/10.1038/ijo.2009.252>
- Guillien, A., Laurent, L., Soumagne, T., Puyraveau, M., Laplante, J.-J., Andujar, P., Dalphin, J.-C. (2018). Anxiety and depression among dairy farmers: The impact of COPD. *International Journal of COPD*, 13
- Halgin, Richard P. 2012. Psikologi Abnormal Perspektif Klinis pada Ggngguan Psikologis. Jakarta: Salemba Humanika.
- Hanklang, S., Kaewboonchoo, O., Morioka, I., & Plernpit, S.-A. (2016). Gender Differences in Depression Symptoms among Rice Farmers in Thailand. *Asia Pacific Journal of Public Health*, 28(1).
- Henn, B.C., McMaster, S., and Padilla, S. 2006. Measuring cholinesterase activity in human saliva. *Journal of Toxicology and Environmental Health A*, vol. 69, no. 19, pp. 1805–1818
- Hulse, E. J., J. O. J. Davies, A. J. Simpson, A. M. Sciuto., M. Eddleston., 2014 Respiratory complications of organophosphorus nerve agent and insecticide poisoning. *American Journal of Respiratory and Critical Care Medicine*. 190(12): 1342-1354.
- Harrison, V., & Mackenzie Ross, S. 2016. Anxiety and depression following cumulative low-level exposure to organophosphate pesticides. *Environmental Research*, 151, 528–536. <https://doi.org/10.1016/j.envres.2016.08.020>

- Jokanovic, M., Kosanovic, M., 2010. Neurotoxic effects in patients poisoned with organophosphorus pesticides. *Environmental toxicology and pharmacology*, 29(3), 195-201.
- Judge, S. J., Savy, C. Y., Campbell, M., Dodds, R., Gomes, L. K., Laws, G., Watson, A., Blain, P. G., Morris, C. M., & Gartside, S. E. 2016. Mechanism for the acute effects of organophosphate pesticides on the adult 5-HT system. *Chemico-Biological Interactions*, 245, 82–89. <https://doi.org/10.1016/j.cbi.2015.12.014>
- Khan, N., Kennedy, A., Cotton, J., & Brumby, S. 2019. A pest to mental health? Exploring the link between exposure to agrichemicals in farmers and mental health. *International Journal of Environmental Research and Public Health*, 16(8). <https://doi.org/10.3390/ijerph16081327>
- Kamel F. and Hoppin JA. 2004. Association of pesticide exposure with neurologic dysfunction and disease. *Environmenta Health Perspectives*, vol. 112, no. 9, pp. 950–958.
- Kementerian Pertanian, 2016. *Statistik Prasarana dan Sarana Pertanian Tahun 2011-2015*. Jakarta: Direktorat Jenderal Prasarana dan Sarana Kementerian Pertanian.
- Kim, J., Shin, D. H., & Lee, W. J. (2014). Suicidal ideation and occupational pesticide exposure among male farmers. *Environmental Research*, 128.
- Khan, K. M., Baidya, R., Aryal, A., Farmer, J. R., & Valliant, J. . (2018). Neurological and mental health outcomes among conventional and organic farmers in Indiana. *Annals of Agricultural and Environmental Medicine*, 25(2)
- Koh, D.Q., Koh, G.H., 2007. The use of salivary biomarkers in occupational and environmental medicine. *Occupational and environmental medicine*, 64(3), 202-210.
- Komersova, A., Komers, K., Cegan, A., 2007. New findings about Ellman's method to determine cholinesterase activity. *Zeitschrift für Naturforschung C*, 62(1-2), 150-154.
- Kunde, L., Kølves, K., Kelly, B., Reddy, P., & De Leo, D. (2017). Pathways to suicide in Australian farmers: A life chart analysis. *International Journal of Environmental Research and Public Health*, 14(4).
- Leonard, J. H., Ali, J. E., Vikram, M., Saraswathy, V., Hanif, F. M. R., Nihayah, M., & Ayiesah, R. 2013. Risk of mental health disorders among farmers involved in palm plantation occupation. *Clinica Terapeutica*, 164(5), 403-406. <https://doi.org/10.7417/CT.2013.1603>
- Lee, H., Cho, S.-Y., Kim, J.-S., Yoon, S.-Y., Kim, B.-I., An, J.-M., & Kim, K.-B. (2019). Difference in health status of Korean farmers according to gender. *Annals of Occupational and Environmental Medicine*, 31(1)
- Lionetto, M.G., Caricato, R., Calisi, A., et al., 2013. Acetylcholinesterase as a biomarker in environmental and occupational medicine: new insights and future perspectives. *BioMed research international*, 2013.
- Logstein, B. (2016). Farm-Related Concerns and Mental Health Status Among Norwegian Farmers. *Journal of Agromedicine*, 21(4)

- London, L., Flisher, A.J., Wesseling, C., et al., 2005. Suicide and exposure to organophosphate insecticides: cause or effect?. *American journal of industrial medicine*, 47(4), 308-321.
- Mahmudah, M., N. E. Wahyuningsih., O. Setyani., 2012. Kejadian keracunan pestisida pada istri petani bawang merah di desa kedunguter kecamatan brebes kabupaten brebes. *Media Kesehatan Indonesia*. 11(1): 65-70.
- Manuaba, IBP. 2008. Cemaran Pestisida FOSFAT-ORGANIK Di Air Danau Buyan Buleleng Bali. Jurusan Kimia FMIPA Universitas Udayana, Bukit Jimbaran
- Marcom, R. T., Grafft, L., Wilson, E., Bruce, J., Jayaratne, K. S. U., & Roberson, G. (2018). Behavioral Health Issues of NC Farmers What Can't be Fixed with Tape and Twine. *North Caroline Medical Journal*, 79
- Meirindany, T. 2021. Pengaruh Paparan Pestisida Terhadap Efek Neurobehavioral Pada Petani Cabai Merah Di Kecamatan Beringin Kabupaten Deli Serdang. UNIVERSITAS SUMATERA UTARA.
- Mulyana, Sugiarta, I., Fuk, L. J., Yunia, P. D., Fitrianti, Y., Adi, N. P., & Soemarmo, D. S. 2020. Biomonitoring of Acetylcholinesterase (AChE) Inhibitor and the Association with Hypertension among Farmers in Bandung, Indonesia. *Indonesian Biomedical Journal*, 12(4), 325–332. <https://doi.org/10.18585/INABJ.V12I4.1220>
- Nevid Jeffrey S, J.S, Rathus, S.A & Green, B.,2006. Psikologi Abnormal Jilid 2. Jakarta: Erlangga. 2006.
- Nursalam. 2008. Konsep Dan Penerapan Metodologi Penelitian Ilmu Keperawatan. Jakarta : Salemba Medika
- Office of Pesticide Programs, 2000. The Use of Data on Cholinesterase Inhibition for Risk Assessments of Organophosphorous and Carbamate Pesticides. Washington DC: US Environmental Protection Agency.
- Owen, L., & Corfe, B. 2017. The role of diet and nutrition on mental health and wellbeing. *Proceedings of the Nutrition Society*, July 2017, 1–2. <https://doi.org/10.1017/S0029665117001057>
- Pan, Y., Cai, W., Cheng, Q., Dong, W., An, T., & Yan, J. 2015. Association between anxiety and hypertension: a systematic review and meta-analysis of epidemiological studies. *Neuropsychiatric Disease and Treatment*, 11, 1121–1130.
- Pattnaik, I., Lahiri-Dutt, K., Lockie, S., & Pritchard, B. 2018. The feminization of agriculture or the feminization of agrarian distress? Tracking the trajectory of women in agriculture in India. *Journal of the Asia Pacific Economy*, 23(1), 138–155. <https://doi.org/10.1080/13547860.2017.1394569>
- Perwitasari, D. A., Prasasti, D., Supadmi, W., Jaikishin, S. A. D., & Wiraagni, I. A. 2017. Impact of organophosphate exposure on farmers' health in Kulon Progo, Yogyakarta: Perspectives of physical, emotional and social health. *SAGE Open Medicine*, 5, 205031211771909. <https://doi.org/10.1177/2050312117719092>

- Polain, J. D., Berry, H. L., & Hoskin, J. O. 2011. Rapid change, climate adversity and the next “big dry”: Older farmers’ mental health. *Australian Journal of Rural Health*, 19(5), 239–243. <https://doi.org/10.1111/j.1440-1584.2011.01219.x>
- Pancetti, F., Olmos, C., Dagnino-Subiabre, A., et al., 2007. Noncholinesterase effects induced by organophosphate pesticides and their relationship to cognitive processes: implication for the action of acylpeptide hydrolase. *Journal of Toxicology and Environmental Health, Part B*, 10(8), 623-630.
- Prihartono N., Kriebel D., Susan W. 2011. Risk of Aplastic Anemia and Pesticide and Other Chemical Exposures. *Asia-Pacific Journal of Public Health*. 23(3), 369–377
- Prijanto TB. 2009. Analisis Faktor Risiko Keracunan Pestisida Organofosfat Pada Keluarga Petani Holtikultura di Kecamatan Ngablak Kabupaten Magelang. Universitas Diponegoro. Semarang.
- Ray, D.E., Richards, P.G., 2001. The potential for toxic effects of chronic, low-dose exposure to organophosphates. *Toxicology letters*, 120(1-3), 343-351.
- Rudolphi, J. M., Berg, R. L., & Parsaik, A. (2019). Depression, Anxiety and Stress Among Young Farmers and Ranchers: A Pilot Study. *Community Mental Health Journal*, 1–9.
- Rohlman, D.S., Anger, W.K., Lein, P.J., 2011. Correlating neurobehavioral performance with biomarkers of organophosphorous pesticide exposure. *Neurotoxicology*, 32(2), 268-276.
- Rosanti, E., Rahma, R. A. A., & Hamawi, M. 2021. Acetylcholinesterase levels in farmers exposed to pesticides: The prevalence and associated factor. *Annals of Tropical Medicine & Public Health*, 24(01). <https://doi.org/10.36295/asro.2021.24167>.
- Saftarina, F. 2014. The Behavior in Using Pesticide on Rice Farmers at RJ Village Bandar Lamoung. *JUKE*, 4(8), 180–184.
- Sapbamrer, R., & Nata, S. 2014. Health symptoms related to pesticide exposure and agricultural tasks among rice farmers from northern Thailand. *Environmental Health and Preventive Medicine*, 19(1), 12–20. <https://doi.org/10.1007/s12199-013-0349-3>.
- Serrano-Medina, A., Ugalde-Lizárraga, A., Bojorquez-Cuevas, M. S., Garnica Ruiz, J., González-Corral, M. A., García-Ledezma, A., Pineda-García, G., & Cornejo-Bravo, J. M. 2019. Neuropsychiatric disorders in farmers associated with organophosphorus pesticide exposure in a rural village of Northwest México. *International Journal of Environmental Research and Public Health*, 16(5). <https://doi.org/10.3390/ijerph16050689>
- Setyopranoto, I., Argo, I. W., Ramadhani, A. F., Dwianingsih, E. K., Tama, W. N., Gofir, A., Setyaningrum, C. T. S., Panggabean, A. S., Sutarni, S., & Malueka, R. G. 2020. The association between pesticide exposure and neurological signs and symptoms in farmers in Magelang district, Central

Java, Indonesia. Open Access Macedonian Journal of Medical Sciences, 8(E), 538–543. <https://doi.org/10.3889/oamjms.2020.5295>

- Serrano-Medina, A., Ugalde-Lizárraga, A., Bojorquez-Cuevas, M. S., Garnica Ruiz, J., González-Corral, M. A., García-Ledezma, A., Cornejo-Bravo, J. M. (2019). Neuropsychiatric disorders in farmers associated with organophosphorus pesticide exposure in a rural village of Northwest México International Journal of Environmental Research and Public Health, 16(5).
- Setyobudi, Bambang., 2012. Pengaruh Paparan Pestisida pada Masa Kehamilan terhadap Kejadian BBLR di Kecamatan Ngablak Kabupaten Magelang. Jurnal Kesehatan Lingkungan Indonesia. 12 (1) : 26- 33.
- Setyopranoto, I., Argo, I., Ramadhani, A., Dwianingsih, E., Tama, W., Gofir, A., Setyaningrum, C., Panggabean, A., Sutarni, S., Malueka, R. 2020. The Association between Pesticide Exposure and Neurological Signs and Symptoms in Farmers in Magelang District, Central Java, Indonesia. Open Access Maced J Med Sci. Vol 8(E): 538-543
- Suliswati. (2005). Konsep Dasar Kesehatan Kesehatan Jiwa. Jakarta: EGC.
- Sutarni S., Wibowo S., Lamsudin R., Soeripto. 2003. Neuropati Akibat Paparan Fenitrothion Pada Penyemprot Vektor Malaria. Universitas Madjah Mada. Yogyakarta.
- Sutarni, S. 2007. Sari Neurotoksikologi. Pustaka Cendekia Press. Yogyakarta.
- Suarez-Lopez, J. R., Nguyen, A., Klas, J., Gahagan, S., Checkoway, H., Lopez Paredes, D., Jacobs, D. R., & Noble, M. 2021. Associations of Acetylcholinesterase Inhibition Between Pesticide Spray Seasons with Depression and Anxiety Symptoms in Adolescents, and the Role of Sex and Adrenal Hormones on Gender Moderation. Exposure and Health, 13(1), 51–64. <https://doi.org/10.1007/s12403-020-00361-w>
- Tan, D.H., Peng, S.Q., Wu, Y.L., et al., 2009. Chronic organophosphate (OP) induced neuropsychiatric disorder is a withdrawal syndrome. Medical hypotheses, 72(4), 405-406.
- Terry Jr A.V. 2012. Functional Consequences of Repeated Organophosphate Exposure: Potential Non-Cholinergic Mechanisms. Pharmacol Ther. June; 134(3): 355–365.
- Wang, J., Timchalk, C., Lin, Y., 2008. Carbon nanotube-based electrochemical sensor for assay of salivary cholinesterase enzyme activity: an exposure biomarker of organophosphate pesticides and nerve agents. Environmental science & technology, 42(7), 2688-2693.
- Worek, F., Eyer, P., Thiermann, H., 2012. Determination of acetylcholinesterase activity by the Ellman assay: A versatile tool for in vitro research on medical countermeasures against organophosphate poisoning. Drug testing and analysis, 4(3-4), 282-291.
- Yadav, J., Singh, D., Yadav, J., 2017. Organophosphates and carbamates as inhibitors of acetylcholinesterase in Eisenia fetida. Pollution Research, 36(2), 277-281.

- Yazd, S. D., Wheeler, S. A., & Zuo, A. 2019. Key risk factors affecting farmers' mental health: A systematic review. *International Journal of Environmental Research and Public Health*, 16(23).
<https://doi.org/10.3390/ijerph16234849>
- Yuantari MG., 2009. Studi Ekonomi Lingkungan Penggunaan Pestisida dan Dampaknya Pada Kesehatan Petani di Area Pertanian Holtikultura Desa Sumber Rejo Kecamatan Ngablak Kabupaten Magelang Jawa Tengah. Universitas Diponegoro. Semarang.
- Yuantari, M. G., Trya C. N., 2017. Faktor-faktor yang berhubungan dengan kejadian keracunan pestisida Anorganik terhadap enzim cholinesterase dalam darah pada petani Holtikultura di desa Batur, kecamatan Getasan, kabupaten Semarang Tahun 2017. Semarang: Program Studi Kesehatan Masyarakat Universitas Dian Nuswantoro.
- Zuraida. (2012). Faktor yang Berhubungan dengan Tingkat Keracunan Pestisida pada Petani di Desa Srimahi Tambun Utara Bekasi Tahun 2011. SKRIPSI, Depok : Universitas Indonesia