

DAFTAR PUSTAKA

- Abbott, L.C., Winzer-Serhan, U.H., 2012. Smoking during pregnancy: lessons learned from epidemiological studies and experimental studies using animal models. *Crit. Rev. Toxicol.* 42, 279–303. <https://doi.org/10.3109/10408444.2012.658506>
- Abdull Razis, A.F., Ibrahim, M.D., Kntayya, S.B., 2014. Health Benefits of *Moringa oleifera*. *Asian Pac. J. Cancer Prev.* 15, 8571–8576. <https://doi.org/10.7314/APJCP.2014.15.20.8571>
- Abdullah, B., Muadz, B., Norizal, M.N., Ismail, N., Kornain, N.K., Kutty, M., 2017. Pregnancy outcome and cord blood cotinine level: A cross-sectional comparative study between secondhand smokers and non-secondhand smokers. *Eur. J. Obstet. Gynecol. Reprod. Biol.* 214, 86–90. <https://doi.org/10.1016/j.ejogrb.2017.05.002>
- Abdullah, N., Al-Junid, S.H., Looi, M.L., Chin, S.F., Haniff, E.A.M., Zakaria, S.Z.S., Jamal, R., 2019. Validation of Self-Reported Smoker and Second Hand Smoke Exposure by Urinary Cotinine within The Malaysian Cohort Project. *J. Biomed. Transl. Res.* 5, 15–22.
- Abrams, S.M., Mahoney, M.C., Hyland, A., Cummings, K.M., Davis, W., Song, L., 2006. Early Evidence on the Effectiveness of Clean Indoor Air Legislation in New York State. *Am. J. Public Health* 96, 296–298. <https://doi.org/10.2105/AJPH.2004.055012>
- Abu-Baker, N., Haddad, L., Savage, C., 2010. The Influence of Secondhand Smoke Exposure on Birth Outcomes in Jordan. *Int. J. Environ. Res. Public. Health* 7, 616–634. <https://doi.org/10.3390/ijerph7020616>
- Adgent, M.A., 2006. Environmental tobacco smoke and sudden infant death syndrome: a review. *Birth Defects Res. B. Dev. Reprod. Toxicol.* 77, 69–85. <https://doi.org/10.1002/bdrb.20068>
- Afzal, A., Hussain, T., Hameed, A., 2021. *Moringa oleifera* Supplementation Improves Antioxidant Status and Biochemical Indices by Attenuating Early Pregnancy Stress in Beetal Goats. *Front. Nutr.* 8, 700957. <https://doi.org/10.3389/fnut.2021.700957>
- Albanes, D., Heinonen, O.P., Huttunen, J.K., Taylor, P.R., Virtamo, J., Edwards, B.K., Haapakoski, J., Rautalahti, M., Hartman, A.M., Palmgren, J., 1995. Effects of alpha-tocopherol and beta-carotene supplements on cancer incidence in the Alpha-Tocopherol Beta-Carotene Cancer Prevention Study. *Am. J. Clin. Nutr.* 62, 1427S–1430S. <https://doi.org/10.1093/ajcn/62.6.1427S>
- Alberg, A.J., 2002. The influence of cigarette smoking on circulating concentrations of antioxidant micronutrients. *Toxicology* 180, 121–137. [https://doi.org/10.1016/S0300-483X\(02\)00386-4](https://doi.org/10.1016/S0300-483X(02)00386-4)
- Al-Delaimy, W.K., 2002. Hair as a biomarker for exposure to tobacco smoke. *Tob. Control* 11, 176–182. <https://doi.org/10.1136/tc.11.3.176>
- Alemán, A., Morello, P., Colomar, M., Llambi, L., Berrueta, M., Gibbons, L., Buekens, P., Althabe, F., 2016. Brief Counseling on Secondhand Smoke Exposure in Pregnant Women in Argentina and Uruguay. *Int. J. Environ. Res. Public. Health* 14, 28. <https://doi.org/10.3390/ijerph14010028>
- Alkam, T., Nabeshima, T., 2019. Molecular mechanisms for nicotine intoxication. *Neurochem. Int.* 125, 117–126. <https://doi.org/10.1016/j.neuint.2019.02.006>

- Amiruddin, R., Yusuf, I., 2008. Influence of antenatal care, placental weight and genetic variation on low birth weight, Makassar Indonesia. *Asia. Pac. J. Public Health* 20 Suppl, 15–17.
- Ananda, K.S., 2014. Daun ini diklaim ampuh hentikan kebiasaan merokok [WWW Document]. merdeka.com. URL <https://www.merdeka.com/sehat/daun-ini-diklaim-ampuh-hentikan-kebiasaan-merokok.html> (accessed 4.8.23).
- Andriani, H., Kuo, H.-W., 2014. Adverse effects of parental smoking during pregnancy in urban and rural areas. *BMC Pregnancy Childbirth* 14, 414. <https://doi.org/10.1186/s12884-014-0414-y>
- Arger, C.A., Taghavi, T., Heil, S.H., Skelly, J., Tyndale, R.F., Higgins, S.T., n.d. Pregnancy-Induced Increases in the Nicotine Metabolite Ratio: Examining Changes During Antepartum and Postpartum. *Nicotine Tob. Res.* <https://doi.org/10.1093/ntr/nty172>
- Ariikh Dyah Lamara, N., 2017. Efek Pemberian Ekstrak Daun Kelor (*Moringa oleifera*) Terhadap Memori pada Hewan Coba Yang mendapat Paparan Asap Rokok (skripsi). Universitas Airlangga. <https://doi.org/10.2/FK.PD.333.17%20.%20Lam.e%20-%20SEC.pdf>
- Artha, de gede darma, 2021. Pengaruh pemberian ekstrak daun kelor (*Moringa oleifera*) terhadap histopatologi paru tikus putih (*Rattus norvegicus*) yang terpapar asap rokok (masters). Wijaya Kusuma Surabaya University.
- Ashford, K.B., Hahn, E., Hall, L., Rayens, M.K., Noland, M., Ferguson, J.E., 2010. The Effects of Prenatal Secondhand Smoke Exposure on Preterm Birth and Neonatal Outcomes. *J. Obstet. Gynecol. Neonatal Nurs.* 39, 525–535. <https://doi.org/10.1111/j.1552-6909.2010.01169.x>
- Attah, A.F., Moody, J.O., Sonibare, M.A., Salahdeen, H.H., Akindele, O.O., Nnamani, P.O., Diyaolu, O.A., Raji, Y., 2020. Aqueous extract of *Moringa oleifera* leaf used in Nigerian ethnomedicine alters conception and some pregnancy outcomes in Wistar rat. *South Afr. J. Bot.*, Special Issue on *Moringa* Research 129, 255–262. <https://doi.org/10.1016/j.sajb.2019.07.041>
- Bakker, R., Timmermans, S., Steegers, E.A.P., Hofman, A., Jaddoe, V.W.V., 2011. Folic Acid Supplements Modify the Adverse Effects of Maternal Smoking on Fetal Growth and Neonatal Complications. *J. Nutr.* 141, 2172–2179. <https://doi.org/10.3945/jn.111.142976>
- Balaraman, S., Winzer-Serhan, U.H., Miranda, R.C., 2012. Opposing Actions of Ethanol and Nicotine on MicroRNAs are Mediated by Nicotinic Acetylcholine Receptors in Fetal Cerebral Cortical-Derived Neural Progenitor Cells. *Alcohol. Clin. Exp. Res.* 36, 1669–1677. <https://doi.org/10.1111/j.1530-0277.2012.01793.x>
- Balhara, Y.P.S., Sarkar, S., 2016. Chapter 34 - Cotinine Urineanalysis for Tobacco Use, in: Preedy, V.R. (Ed.), *Neuropathology of Drug Addictions and Substance Misuse*. Academic Press, San Diego, pp. 363–372. <https://doi.org/10.1016/B978-0-12-800213-1.00034-1>
- Baran, W., Madej-Knysak, D., Sobczak, A., Adamek, E., 2020. The influence of waste from electronic cigarettes, conventional cigarettes and heat-not-burn tobacco products on microorganisms. *J. Hazard. Mater.* 385, 121591. <https://doi.org/10.1016/j.jhazmat.2019.121591>

- Basri, H., Hadju, V., Zulkifli, A., Syam, A., Indriasari, R., 2021. Effect of Moringa oleifera supplementation during pregnancy on the prevention of stunted growth in children between the ages of 36 to 42 months. *J. Public Health Res.* 10, 2207. <https://doi.org/10.4081/jphr.2021.2207>
- Baumgartner, J., 2017. Antenatal multiple micronutrient supplementation: benefits beyond iron-folic acid alone. *Lancet Glob. Health* 5, e1050–e1051. [https://doi.org/10.1016/S2214-109X\(17\)30389-3](https://doi.org/10.1016/S2214-109X(17)30389-3)
- Benowitz, N.L., Hukkanen, J., Jacob, P., 2009. Nicotine Chemistry, Metabolism, Kinetics and Biomarkers. *Handb. Exp. Pharmacol.* 29–60. https://doi.org/10.1007/978-3-540-69248-5_2
- Berlanga, M. del R., Salazar, G., Garcia, C., Hernandez, J., 2002. Maternal smoking effects on infant growth. *Food Nutr. Bull.* 23, 142–145.
- BKPK, H., 2023. Dua Titik Penting Intervensi Stunting. Badan Kebijak. Pembang. Kesehat. BKPK Kemenkes. URL <https://www.badankebijakan.kemkes.go.id/dua-titik-penting-intervensi-stunting/> (accessed 5.14.23).
- Blacquière, M.J., Timens, W., Melgert, B.N., Geerlings, M., Postma, D.S., Hylkema, M.N., 2009. Maternal smoking during pregnancy induces airway remodelling in mice offspring. *Eur. Respir. J.* 33, 1133–1140. <https://doi.org/10.1183/09031936.00129608>
- Braun, M., Koger, F., Klingelhöfer, D., Müller, R., Groneberg, D., 2019. Particulate Matter Emissions of Four Different Cigarette Types of One Popular Brand: Influence of Tobacco Strength and Additives. *Int. J. Environ. Res. Public. Health* 16, 263. <https://doi.org/10.3390/ijerph16020263>
- Bruno, R.S., Traber, M.G., 2005. Cigarette Smoke Alters Human Vitamin E Requirements. *J. Nutr.* 135, 671–674. <https://doi.org/10.1093/jn/135.4.671>
- Buntić, A.V., Stajković-Srbinović, O.S., Delić, D.I., Dimitrijević-Branković, S.I., Milić, M.D., 2019. The production of cellulase from the waste tobacco residues remaining after polyphenols and nicotine extraction and bacterial pre-treatment. *J. Serbian Chem. Soc.* 84, 129–140. <https://doi.org/10.2298/JSC180802114B>
- Carmichael, S.L., Ma, C., Rasmussen, S.A., Honein, M.A., Lammer, E.J., Shaw, G.M., the National Birth Defects Prevention Study, 2008. Craniosynostosis and maternal smoking. *Birt. Defects Res. A. Clin. Mol. Teratol.* 82, 78–85. <https://doi.org/10.1002/bdra.20426>
- Caspers, K.M., Romitti, P.A., Lin, S., Olney, R.S., Holmes, L.B., Werler, M.M., 2013. Maternal Periconceptional Exposure to Cigarette Smoking and Congenital Limb Deficiencies. *Paediatr. Perinat. Epidemiol.* 27, 509–520. <https://doi.org/10.1111/ppe.12075>
- Chang Gung Children Hospital, ., 2010. Carbon Monoxide poisoning [WWW Document]. www1.cgmh.org.tw. URL <https://www1.cgmh.org.tw/chldhos/intr/c4aw00/powerpoint/20100105.pdf> (accessed 5.19.19).
- Chauhan, S., Patel, R., Bansod, D.W., 2020. Are we ignoring the Importance of Sanitation while Mourning the Adverse Pregnancy Outcomes? *Clin. Mother Child Health* 17.
- Chelchowska, M., Ambroszkiewicz, J., Gajewska, J., Laskowska-Klita, T., Leibschang, J., 2011. The effect of tobacco smoking during pregnancy on plasma oxidant and

- antioxidant status in mother and newborn. *Eur. J. Obstet. Gynecol. Reprod. Biol.* 155, 132–136. <https://doi.org/10.1016/j.ejogrb.2010.12.006>
- Chen, R., Aherrera, A., Isichei, C., Olmedo, P., Jarmul, S., Cohen, J.E., Navas-Acien, A., Rule, A.M., 2018. Assessment of indoor air quality at an electronic cigarette (Vaping) convention. *J. Expo. Sci. Environ. Epidemiol.* 28, 522–529. <https://doi.org/10.1038/s41370-017-0005-x>
- Chenoweth, M.J., O'Loughlin, J., Sylvestre, M.-P., Tyndale, R.F., 2013. CYP2A6 slow nicotine metabolism is associated with increased quitting by adolescent smokers. *Pharmacogenet. Genomics* 23, 232–235. <https://doi.org/10.1097/FPC.0b013e32835f834d>
- Cohen, G., Roux, J.-C., Lagercrantz, H., n.d. Perinatal exposure to nicotine causes deficits associated with a loss of nicotinic receptor function 5.
- Crane, J., Keough, M., Murphy, P., Burrage, L., Hutchens, D., 2011. Effects of environmental tobacco smoke on perinatal outcomes: a retrospective cohort study. *BJOG Int. J. Obstet. Gynaecol.* 118, 865–871. <https://doi.org/10.1111/j.1471-0528.2011.02941.x>
- Curtin, S.C., Matthews, T.J., 2016. Smoking Prevalence and Cessation Before and During Pregnancy: Data From the Birth Certificate, 2014. *Natl. Vital Stat. Rep. Cent. Dis. Control Prev. Natl. Cent. Health Stat. Natl. Vital Stat. Syst.* 65, 1–14.
- Czogala, J., Goniewicz, M.L., Fidelus, B., Zielinska-Danch, W., Travers, M.J., Sobczak, A., 2014. Secondhand Exposure to Vapors From Electronic Cigarettes. *Nicotine Tob. Res.* 16, 655–662. <https://doi.org/10.1093/ntr/ntt203>
- Dallongeville, J., Marécaux, N., Fruchart, J.-C., Amouyel, P., 1998. Cigarette Smoking Is Associated with Unhealthy Patterns of Nutrient Intake: a Meta-analysis. *J. Nutr.* 128, 1450–1457. <https://doi.org/10.1093/jn/128.9.1450>
- Davis, R.A., Stiles, M.F., deBethizy, J.D., Reynolds, J.H., 1991. Dietary nicotine: A source of urinary cotinine. *Food Chem. Toxicol.* 29, 821–827. [https://doi.org/10.1016/0278-6915\(91\)90109-K](https://doi.org/10.1016/0278-6915(91)90109-K)
- Dawson, E.B., Evans, D.R., Harris, W.A., McGanity, W.J., 1999. The effect of ascorbic acid supplementation on the nicotine metabolism of smokers. *Prev. Med.* 29, 451–454. <https://doi.org/10.1006/pmed.1999.0583>
- de Seymour, J.V., Beck, K.L., Conlon, C.A., 2019. Nutrition in pregnancy. *Obstet. Gynaecol. Reprod. Med.* 29, 219–224. <https://doi.org/10.1016/j.ogrm.2019.04.009>
- Demirhan, O., 2017. Results of Smoking in Pregnancy: The Genotoxic Effect of Nicotine or why Cigarette should not be Smoked in Pregnancy? 4.
- Ding, G., Yu, J., Chen, Y., Vinturache, A., Pang, Y., Zhang, J., 2017. Maternal Smoking during Pregnancy and Necrotizing Enterocolitis-associated Infant Mortality in Preterm Babies. *Sci. Rep.* 7. <https://doi.org/10.1038/srep45784>
- Dinkes, T., 2015. PROFIL KESEHATAN TAKALAR TAHUN 2014. DIinas Kesehatan Kabupaten Takalar.
- Domino, E.F., Hornbach, E., Demana, T., 2010. The Nicotine Content of Common Vegetables. <https://doi.org/10.1056/NEJM199308053290619>
- Duhig, K., Chappell, L.C., Shennan, A.H., 2016. Oxidative stress in pregnancy and reproduction. *Obstet. Med.* 9, 113–116. <https://doi.org/10.1177/1753495X16648495>

- Egawa, M., Yasuda, K., Nakajima, T., Okada, H., Yoshimura, T., Yuri, T., Yasuhara, M., Nakamoto, T., Nagata, F., Kanzaki, H., 2003. Smoking Enhances Oxytocin-Induced Rhythmic Myometrial Contraction. *Biol. Reprod.* 68, 2274–2280.
<https://doi.org/10.1095/biolreprod.102.010785>
- Eisner, M.D., Katz, P.P., Yelin, E.H., Hammond, S.K., Blanc, P.D., 2001. Measurement of environmental tobacco smoke exposure among adults with asthma. *Environ. Health Perspect.* 109, 809–814.
- Elkin, E.R., O'Neill, M.S., 2017. Trends in Environmental Tobacco Smoke (ETS) Exposure and Preterm Birth: Use of Smoking Bans and Direct ETS Exposure Assessments in Study Designs. *Chem. Res. Toxicol.* 30, 1376–1383.
<https://doi.org/10.1021/acs.chemrestox.7b00054>
- Elsinga, J., de Jong-Potjer, L.C., van der Pal-de Bruin, K.M., le Cessie, S., Assendelft, W.J.J., Buitendijk, S.E., 2008. The Effect of Preconception Counselling on Lifestyle and Other Behaviour Before and During Pregnancy. *Womens Health Issues, Women's Health Issues* 18, S117–S125. <https://doi.org/10.1016/j.whi.2008.09.003>
- Etter, J.-F., Perneger, T.V., 2001. Measurement of self reported active exposure to cigarette smoke. *J. Epidemiol. Community Health* 55, 674–680.
<https://doi.org/10.1136/jech.55.9.674>
- Fahy, J.V., 2001. Remodeling of the Airway Epithelium in Asthma. *Am. J. Respir. Crit. Care Med.* 164, S46–S51. https://doi.org/10.1164/ajrccm.164.supplement_2.2106066
- Fall, C.H.D., Fisher, D.J., Osmond, C., Margetts, B.M., 2009. Multiple micronutrient supplementation during pregnancy in low-income countries: A meta-analysis of effects on birth size and length of gestation. *Food Nutr. Bull.* 30, S533–S546.
- Fantuzzi, G., Aggazzotti, G., Righi, E., Facchinetto, F., Bertucci, E., Kanitz, S., Barbone, F., Sansebastiano, G., Battaglia, M.A., Leoni, V., Fabiani, L., Triassi, M., Sciacca, S., 2007. Preterm delivery and exposure to active and passive smoking during pregnancy: a case-control study from Italy. *Paediatr. Perinat. Epidemiol.* 21, 194–200.
<https://doi.org/10.1111/j.1365-3016.2007.00815.x>
- Febrianto, R., 2023. Butuh Daya Ungkit Ekstra Untuk Turunkan Stunting | Kementerian Koordinator Bidang Pembangunan Manusia dan Kebudayaan [WWW Document]. URL <https://www.kemenkopmk.go.id/index.php/butuh-daya-ungkit-ekstra-untuk-turunkan-stunting> (accessed 5.14.23).
- Feng, S., Cummings, O., McIntire, G., 2018. Nicotine and cotinine in oral fluid: Passive exposure vs active smoking. *Pract. Lab. Med.* 12, e00104.
<https://doi.org/10.1016/j.plabm.2018.e00104>
- Fu, Z., Shrubssole, M.J., Smalley, W.E., Ness, R.M., Zheng, W., 2014. Associations between Dietary Fiber and Colorectal Polyp Risk Differ by Polyp Type and Smoking Status. *J. Nutr.* 144, 592–598. <https://doi.org/10.3945/jn.113.183319>
- Ganganahalli, P., Pratinidhi, A., Patil, J., Kakade, S.V., 2017. Correlation of Cotinine Levels with Use of Smokeless Tobacco (Mishri) among Pregnant Women and Anthropometry of Newborn. *J. Clin. Diagn. Res. JCDR* 11, LC16–LC19.
<https://doi.org/10.7860/JCDR/2017/23340.9534>
- Georgieff, M.K., 2020. Iron deficiency in pregnancy. *Am. J. Obstet. Gynecol.* 223, 516–524.
<https://doi.org/10.1016/j.ajog.2020.03.006>

- Gerber, A., Hofen-Hohloch, A.V., Schulze, J., Groneberg, D.A., 2015. Tobacco smoke particles and indoor air quality (ToPIQ-II) – a modified study protocol and first results. *J. Occup. Med. Toxicol.* 10, 5. <https://doi.org/10.1186/s12995-015-0047-8>
- Gibbs, K., Collaco, J.M., McGrath-Morrow, S.A., 2016. Impact of Tobacco Smoke and Nicotine Exposure on Lung Development. *Chest* 149, 552–561. <https://doi.org/10.1378/chest.15-1858>
- Goel, P., Radotra, A., Singh, I., Aggarwal, A., Dua, D., 2004. Effects of passive smoking on outcome in pregnancy. *J. Postgrad. Med.* 50, 12.
- Goldstein, H., Goldberg, I.D., Frazier, T.M., Davis, G.E., 1964. Cigarette smoking and prematurity. *Public Health Rep.* 79, 553–560.
- Gopalakrishnan, L., Doriya, K., Kumar, D.S., 2016. Moringa oleifera: A review on nutritive importance and its medicinal application. *Food Sci. Hum. Wellness* 5, 49–56. <https://doi.org/10.1016/j.fshw.2016.04.001>
- Gorrod, J.W., III, P.J., 1999. Analytical Determination of Nicotine and Related Compounds and their Metabolites. Elsevier.
- Gray, J.P., Hall, G.J., 2014. Cotinine, in: *Encyclopedia of Toxicology*. Elsevier, pp. 1050–1051. <https://doi.org/10.1016/B978-0-12-386454-3.00294-3>
- Grunberg, N.E., 1982. The effects of nicotine and cigarette smoking on food consumption and taste preferences. *Addict. Behav.* 7, 317–331. [https://doi.org/10.1016/0306-4603\(82\)90001-6](https://doi.org/10.1016/0306-4603(82)90001-6)
- Hackshaw, A., Rodeck, C., Boniface, S., 2011. Maternal smoking in pregnancy and birth defects: a systematic review based on 173 687 malformed cases and 11.7 million controls. *Hum. Reprod. Update* 17, 589–604. <https://doi.org/10.1093/humupd/dmr022>
- Hadju, V., Ariyandy, A., 2020. The Effect Of Giving Extracted Moringa Oleifera Leaves Plus Royal Jelly Supplement On Infant Weight And Length Of New Born Of Anemia Pregnant Woman In Takalar District. *Clin. Med.* 07, 10.
- Hadju, V., Arsin, A.A., Syam, A., Harun, H., Wahyuni, R.D., Amri, I., Sabir, M., 2020a. The Role of Oxidative Stress and Maternal Multiple Micronutrient Supplementation in Pregnancy Outcomes: Literature Review. *Syst. Rev. Pharm.* 11, 4.
- Hadju, V., Dassir, M., Sadapotto, A., Putranto, A., Geoffrey, M., Arundhana, A.I., 2020b. Effects of Moringa Oleifera Leaves and Honey Supplementation during Pregnancy on Mothers and Newborns: A Review of the Current Evidence | Open Access Macedonian Journal of Medical Sciences.
- Hayes, C., Kearney, M., O'Carroll, H., Zgaga, L., Geary, M., Kelleher, C., 2016. Patterns of Smoking Behaviour in Low-Income Pregnant Women: A Cohort Study of Differential Effects on Infant Birth Weight. *Int. J. Environ. Res. Public. Health* 13, 1060. <https://doi.org/10.3390/ijerph13111060>
- Holbrook, B.D., 2016. The effects of nicotine on human fetal development. *Birth Defects Res. Part C Embryo Today Rev.* 108, 181–192. <https://doi.org/10.1002/bdrc.21128>
- Howard, C., 2016. A New Source for Nicotine Exposures in Pediatric Patients: Electronic Cigarettes. *J. Emerg. Nurs.* 42, 451–453. <https://doi.org/10.1016/j.jen.2016.03.008>
- Hoyt, A.T., Canfield, M.A., Romitti, P.A., Botto, L.D., Anderka, M.T., Krikov, S.V., Tarpey, M.K., Feldkamp, M.L., 2016. Associations between maternal periconceptional

- exposure to secondhand tobacco smoke and major birth defects. *Am. J. Obstet. Gynecol.* 215, 613.e1–613.e11. <https://doi.org/10.1016/j.ajog.2016.07.022>
- Huang, K.-H., Chou, A.-K., Jeng, S.-F., Ng, S., Hsieh, C.-J., Chen, M.-H., Chen, P.-C., Hsieh, W.-S., 2017. The Impacts of Cord Blood Cotinine and Glutathione-S-Transferase Gene Polymorphisms on Birth Outcome. *Pediatr. Neonatol.* 58, 362–369. <https://doi.org/10.1016/j.pedneo.2016.08.006>
- Hwang, J., Lee, K., 2014. Determination of Outdoor Tobacco Smoke Exposure by Distance From a Smoking Source. *Nicotine Tob. Res.* 16, 478–484. <https://doi.org/10.1093/ntr/ntt178>
- Ikka, T., Yamashita, H., Kurita, I., Tanaka, Y., Taniguchi, F., Ogino, A., Takeda, K., Horie, N., Hojo, H., Nanjo, F., Morita, A., 09 Apr 18. Quantitative validation of nicotine production in tea (*Camellia sinensis* L.). *PLOS ONE* 13, e0195422. <https://doi.org/10.1371/journal.pone.0195422>
- Ion, R., Bernal, A.L., 2015. Smoking and Preterm Birth. *Reprod. Sci.* 22, 918–926. <https://doi.org/10.1177/1933719114556486>
- Israwati, I., Nontji, W., Hadju, V., 2021. Teh daun kelor (*moringa oleifera* tea) terhadap berat badan lahir, panjang badan, berat plasenta. *J. Kebidanan* 10, 171–180. <https://doi.org/10.26714/jk.10.2.2021.171-180>
- J. SHEEN, S., 2006. Detection of Nicotine in Foods and Plant Materials. *J. Food Sci.* 53, 1572–1573. <https://doi.org/10.1111/j.1365-2621.1988.tb09328.x>
- Jarvis, M.J., Russell, M.A., Feyerabend, C., 1983. Absorption of nicotine and carbon monoxide from passive smoking under natural conditions of exposure. *Thorax* 38, 829–833. <https://doi.org/10.1136/thx.38.11.829>
- Kauneliénė, V., Meišutovič-Akhtarieva, M., Martuzevičius, D., 2018. A review of the impacts of tobacco heating system on indoor air quality versus conventional pollution sources. *Chemosphere* 206, 568–578. <https://doi.org/10.1016/j.chemosphere.2018.05.039>
- Kaur, J., Prasad, V.M., 2011. Air Nicotine Monitoring for Second Hand Smoke Exposure in Public Places in India. *Indian J. Community Med. Off. Publ. Indian Assoc. Prev. Soc. Med.* 36, 98–103. <https://doi.org/10.4103/0970-0218.84126>
- Kelly, G., 2003. The Interaction of Cigarette Smoking and Antioxidants. Part III: Ascorbic Acid. *Altern. Med. Rev.* 8, 12.
- Khader, Y.S., Al-Akour, N., AlZubi, I.M., Lataifeh, I., 2011. The Association Between Second Hand Smoke and Low Birth Weight and Preterm Delivery. *Matern. Child Health J.* 15, 453–459. <https://doi.org/10.1007/s10995-010-0599-2>
- Khuzaimah, A., Hadju, V., As'ad, S., Abdullah, N., Bahar, B., Riu, D.S., 2015. Effect of Honey and *Moringa Oleifera* Leaf Extracts Supplementation for Preventing DNA Damage in Passive Smoking Pregnancy. *Int. J. Sci.* 24, 8.
- Kim, S., 2016. Overview of Cotinine Cutoff Values for Smoking Status Classification. *Int. J. Environ. Res. Public. Health* 13, 1236. <https://doi.org/10.3390/ijerph13121236>
- Klein, J., Blanchette, P., Koren, G., 2004. Assessing nicotine metabolism in pregnancy—a novel approach using hair analysis. *Forensic Sci. Int.* 145, 191–194. <https://doi.org/10.1016/j.forsciint.2004.04.035>

- Klesges, L.M., Murray, D.M., Brown, J.E., Cliver, S.P., Goldenberg, R.L., 1998. Relations of Cigarette Smoking and Dietary Antioxidants with Placental Calcification. *Am. J. Epidemiol.* 147, 127–135. <https://doi.org/10.1093/oxfordjournals.aje.a009424>
- Koh, W.-P., Yuan, J.-M., Sun, C.-L., Lee, H.-P., Yu, M.C., 2005. Middle-Aged and Older Chinese Men and Women in Singapore Who Smoke Have Less Healthy Diets and Lifestyles than Nonsmokers. *J. Nutr.* 135, 2473–2477. <https://doi.org/10.1093/jn/135.10.2473>
- Lachenmeier, D.W., Rehm, J., 2015. Comparative risk assessment of alcohol, tobacco, cannabis and other illicit drugs using the margin of exposure approach. *Sci. Rep.* 5, 8126. <https://doi.org/10.1038/srep08126>
- Lange, S., Probst, C., Rehm, J., Popova, S., 2018. National, regional, and global prevalence of smoking during pregnancy in the general population: a systematic review and meta-analysis. *Lancet Glob. Health* 6, e769–e776. [https://doi.org/10.1016/S2214-109X\(18\)30223-7](https://doi.org/10.1016/S2214-109X(18)30223-7)
- Lazaniriana, R., Jules, R., Narindra, R., Andrin’iranto, R.A., Bongo, N., Ngbolua, K.-N., Baholy, R., 2020. Formulation of *Moringa oleifera* Lam. based Bio-fortified Food Supplement for Pregnant Women in Madagascar, Indian Ocean. *Br. Int. Exact Sci. BioEx J.* 2, 533–540. <https://doi.org/10.33258/bioex.v2i2.229>
- Lee, J., Lee, D.-R., Lee, D.-H., Paek, Y.-J., Lee, W.-C., 2015. Influence of Maternal Environmental Tobacco Smoke Exposure Assessed by Hair Nicotine Levels on Birth Weight. *Asian Pac. J. Cancer Prev.* 16, 3029–3034. <https://doi.org/10.7314/APJCP.2015.16.7.3029>
- Lestari, K.S.D., 2015. Paparan Asap Rokok pada Ibu Hamil di Rumah Tangga terhadap Risiko Peningkatan Kejadian Bayi Berat Lahir Rendah di Kabupaten Gianyar. *Public Health Prev. Med. Arch.* 3, 7.
- Li, N., Jia, X., Chen, C.-Y.O., Blumberg, J.B., Song, Y., Zhang, W., Zhang, X., Ma, G., Chen, J., 2007. Almond Consumption Reduces Oxidative DNA Damage and Lipid Peroxidation in Male Smokers. *J. Nutr.* 137, 2717–2722. <https://doi.org/10.1093/jn/137.12.2717>
- Liu, C., Russell, R.M., Wang, X.-D., 2006. Lycopene Supplementation Prevents Smoke-Induced Changes in p53, p53 Phosphorylation, Cell Proliferation, and Apoptosis in the Gastric Mucosa of Ferrets. *J. Nutr.* 136, 106–111. <https://doi.org/10.1093/jn/136.1.106>
- Luo, Y.-J., Wen, X.-Z., Ding, P., He, Y.-H., Xie, C.-B., Liu, T., Lin, J., Yuan, S.-X., Guo, X.-L., Jia, D.-Q., Chen, L.-H., Huang, B.-Z., Chen, W.-Q., 13 Nov 12. Interaction between Maternal Passive Smoking during Pregnancy and CYP1A1 and GSTs Polymorphisms on Spontaneous Preterm Delivery. *PLOS ONE* 7, e49155. <https://doi.org/10.1371/journal.pone.0049155>
- Lykkesfeldt, J., Christen, S., Wallock, L.M., Chang, H.H., Jacob, R.A., Ames, B.N., 2000. Ascorbate is depleted by smoking and repleted by moderate supplementation: a study in male smokers and nonsmokers with matched dietary antioxidant intakes. *Am. J. Clin. Nutr.* 71, 530–536. <https://doi.org/10.1093/ajcn/71.2.530>
- Mahmood, K.T., Mugal, T., Haq, I.U., 2010. *Moringa oleifera*: a natural gift-A review. *J Pharm Sci* 7.
- Margetts, B.M., Jackson, A.A., 1996. The determinants of plasma beta-carotene: interaction between smoking and other lifestyle factors. *Eur. J. Clin. Nutr.* 50, 236–238.

- Matt, G.E., Quintana, P.J.E., Zakarian, J.M., Fortmann, A.L., Chatfield, D.A., Hoh, E., Uribe, A.M., Hovell, M.F., 2011. When smokers move out and non-smokers move in: residential thirdhand smoke pollution and exposure. *Tob. Control* 20, e1–e1. <https://doi.org/10.1136/tc.2010.037382>
- Matt, G.E., Quintana, P.J.E., Zakarian, J.M., Hoh, E., Hovell, M.F., Mahabee-Gittens, M., Watanabe, K., Datuin, K., Vue, C., Chatfield, D.A., 2017. When smokers quit: exposure to nicotine and carcinogens persists from thirdhand smoke pollution. *Tob. Control* 26, 548–556. <https://doi.org/10.1136/tobaccocontrol-2016-053119>
- Matt Georg E., Quintana Penelope J. E., Destaillats Hugo, Gundel Lara A., Sleiman Mohamad, Singer Brett C., Jacob Peyton, Benowitz Neal, Winickoff Jonathan P., Rehan Virender, Talbot Prue, Chick Suzaynn, Samet Jonathan, Wang Yinsheng, Hang Bo, Martins-Green Manuela, Pankow James F., Hovell Melbourne F., 2011. Thirdhand Tobacco Smoke: Emerging Evidence and Arguments for a Multidisciplinary Research Agenda. *Environ. Health Perspect.* 119, 1218–1226. <https://doi.org/10.1289/ehp.1103500>
- Maulidiana, N.L., Astono, J., 2009. Pemanfaatan Serbuk Biji, Daun Kelor Untuk Menurunkan Kadar Nikotin pada Tembakau Trowono.
- Miller, E.A., Manning, S.E., Rasmussen, S.A., Reefhuis, J., Honein, M.A., 2009. Maternal exposure to tobacco smoke, alcohol and caffeine, and risk of anorectal atresia: National Birth Defects Prevention Study 1997–2003. *Paediatr. Perinat. Epidemiol.* 23, 9–17. <https://doi.org/10.1111/j.1365-3016.2008.00976.x>
- Miranda, M.L., Maxson, P., Edwards, S., 2009. Environmental Contributions to Disparities in Pregnancy Outcomes. *Epidemiol. Rev.* 31, 67–83. <https://doi.org/10.1093/epirev/mxp011>
- Miranti, M., Arsin, A.A., Amiruddin, R., Hadju, V., Wahyu, A., Palutturi, S., Basir-Cyio, M., Sabir, M., Mutiarasari, D., Harun, H., Rahma, R., Wahyuni, R.D., Suarayasa, K., 2022. Sanitation and Multiple Micronutrient Supplementation in Pregnancy Outcomes: Literature Review. *Open Access Maced. J. Med. Sci.* 10, 380–385. <https://doi.org/10.3889/oamjms.2022.9052>
- Miyake, Y., Tanaka, K., Arakawa, M., 2013. Active and passive maternal smoking during pregnancy and birth outcomes: the Kyushu Okinawa Maternal and Child Health Study. *BMC Pregnancy Childbirth* 13, 157. <https://doi.org/10.1186/1471-2393-13-157>
- Moldoveanu, S.C., Scott, W.A., Lawson, D.M., 2016. Nicotine Analysis in Several Non-Tobacco Plant Materials. *Beitr. Zur Tab. Int. Tob. Res.* 27, 54–59. <https://doi.org/10.1515/cttr-2016-0008>
- Monsen, E.R., n.d. Dietary Reference Intakes for Antioxidant nutrients: Vitamin C, Vitamin A, Selenium and Carotenoids. *J. Am. Diabetic Assoc.* 637.
- Moore, D.C., 2016. Relationship between Self-Reported Maternal Tobacco Usage, Cotinine Levels and Birth Outcomes. <http://scholar.google.co.id> 16.
- Mori, N., Shimazu, T., Sasazuki, S., Nozue, M., Mutoh, M., Sawada, N., Iwasaki, M., Yamaji, T., Inoue, M., Takachi, R., Sunami, A., Ishihara, J., Sobue, T., Tsugane, S., 2017. Cruciferous Vegetable Intake Is Inversely Associated with Lung Cancer Risk among

- Current Nonsmoking Men in the Japan Public Health Center (JPHC) Study. *J. Nutr.* 147, 841–849. <https://doi.org/10.3945/jn.117.247494>
- Moriwaki, H., Kitajima, S., Katahira, K., 2009. Waste on the roadside, “poi-sute” waste: its distribution and elution potential of pollutants into environment. *Waste Manag.* 29, 1192–1197. <https://doi.org/10.1016/j.wasman.2008.08.017>
- Mourineo, N., Ruano-Raviña, A., Lema, L.V., Fernández, E., López, M.J., Santiago-Pérez, M.I., Rey-Brandariz, J., Giraldo-Osorio, A., Pérez-Ríos, M., 2022. Serum cotinine cut-points for secondhand smoke exposure assessment in children under 5 years: A systemic review. *PLOS ONE* 17, e0267319. <https://doi.org/10.1371/journal.pone.0267319>
- Moyer, T.P., Charlson, J.R., Enger, R.J., Dale, L.C., Ebbert, J.O., Schroeder, D.R., Hurt, R.D., 2002. Simultaneous analysis of nicotine, nicotine metabolites, and tobacco alkaloids in serum or urine by tandem mass spectrometry, with clinically relevant metabolic profiles. *Clin. Chem.* 48, 1460–1471.
- M.St.J, W., Cole, B., 2002. Toxicity and hazard assessment of cigarette butts to aquatic organisms.
- Munmun, F.R., Rahman, M.E., Jahangir, A.F., Patwary, M.S.A., Chowdhury, A.S., Kamruzzaman, M., 2016. Role of Maternal Smokeless Tobacco Ingestion Durineg Pregnancy in Delivery of Preterm Babies. *Bangladesh J. Child Health* 40, 135–138. <https://doi.org/10.3329/bjch.v40i3.33052>
- Musumeci, G., Castrogiovanni, P., Trovato, F.M., Parenti, R., Szychlinska, M.A., Imbesi, R., 2015. Pregnancy, embryo-fetal development and nutrition: physiology around fetal programming. *J. Histol. Histopathol.* 2, 1. <https://doi.org/2055-091X-2-1>
- Nadhiroh, S.R., Djokosujono, K., Utari, D.M., 2020. The association between secondhand smoke exposure and growth outcomes of children: A systematic literature review. *Tob. Induc. Dis.* 18, 12. <https://doi.org/10.18332/tid/117958>
- Ng, S., Aris, I.M., Tint, M.T., Gluckman, P.D., Godfrey, K.M., Shek, L.P.-C., Yap, F., Tan, K.H., Lek, N., Teoh, O.H., Chan, Y.H., Chong, M.F.-F., Lee, Y.S., Chong, Y.-S., Kramer, M.S., Chan, S.-Y., 2018. High maternal circulating cotinine durineg pregnancy is associated with persistently shorter stature from birth to five years in an Asian cohort. *Nicotine Tob. Res. Off. J. Soc. Res. Nicotine Tob.* 10.1093/ntr/nty148. <https://doi.org/10.1093/ntr/nty148>
- Nishijo, M., Nakagawa, H., Honda, R., Tanebe, K., Saito, S., Teranishi, H., Tawara, K., 2002. Effects of maternal exposure to cadmium on pregnancy outcome and breast milk. *Occup. Environ. Med.* 59, 394–397. <https://doi.org/10.1136/oem.59.6.394>
- Novotny, T.E., Bialous, S.A., Burt, L., Curtis, C., da Costa, V.L., Iqtidar, S.U., Liu, Y., Pujari, S., d'Espaignet, E.T., 2015. WHO | The environmental and health impacts of tobacco agriculture, cigarette manufacture and consumption [WWW Document]. WHO. URL <http://www.who.int/bulletin/volumes/93/12/15-152744/en/> (accessed 1.16.20).
- Novotny, T.E., Lum, K., Smith, E., Wang, V., Barnes, R., 2009. Filtered Cigarettes and the Case for an Environmental Policy on Cigarette Waste. *Int J Env. Res Public Health* 15.
- Novotny, T.E., Slaughter, E., 2014. Tobacco Product Waste: An Environmental Approach to Reduce Tobacco Consumption. *Curr. Environ. Health Rep.* 1, 208–216. <https://doi.org/10.1007/s40572-014-0016-x>

- Nur, A.F., Arifuddin, A., 2018. FAKTOR RISIKO PLASENTA RINGAN PADA IBU BERSALIN DI RSU ANUTAPURA PALU 4, 7.
- Okur, N., Kayıkçıoğlu, H.H., Okur, B., Delibacak, S., 2008. Organic Amendment Based on Tobacco Waste Compost and Farmyard Manure: Influence on Soil Biological Properties and Butter-Head Lettuce Yield. *Turk. J. Agric. For.* 32, 91–99.
- Omenn, G.S., Goodman, G., Thornquist, M., Grizzle, J., Rosenstock, L., Barnhart, S., Balmes, J., Cherniack, M.G., Cullen, M.R., Glass, A., Keogh, J., Meyskens, F., Valanis, B., Williams, J., 1994. The β -Carotene and Retinol Efficacy Trial (CARET) for Chemoprevention of Lung Cancer in High Risk Populations: Smokers and Asbestos-exposed Workers. *Cancer Res.* 54, 2038s–2043s.
- Oyedele, O.A., Oyedele, A.O., 2017. Impacts of Waste Dumps on the Health of Neighbours: A Case Study of Olusosun Waste Dump, Ojota, Lagos State, Nigeria. *J. Civ. Constr. Environ. Eng.* 2, 27. <https://doi.org/10.11648/j.jccee.20170201.15>
- Padhi, B.K., Baker, K.K., Dutta, A., Cumming, O., Freeman, M.C., Satpathy, R., Das, B.S., Panigrahi, P., 2015. Risk of Adverse Pregnancy Outcomes among Women Practicing Poor Sanitation in Rural India: A Population-Based Prospective Cohort Study. *PLOS Med.* 12, e1001851. <https://doi.org/10.1371/journal.pmed.1001851>
- Palaniappan, U., Starkey, L.J., O'Loughlin, J., Gray-Donald, K., 2001. Fruit and Vegetable Consumption Is Lower and Saturated Fat Intake Is Higher among Canadians Reporting Smoking. *J. Nutr.* 131, 1952–1958. <https://doi.org/10.1093/jn/131.7.1952>
- Patel, R., Gupta, A., Chauhan, S., Bansod, D.W., 2019. Effects of sanitation practices on adverse pregnancy outcomes in India: a conducive finding from recent Indian demographic health survey. *BMC Pregnancy Childbirth* 19, 378. <https://doi.org/10.1186/s12884-019-2528-8>
- Pattenden, S., 2006. Parental smoking and children's respiratory health: independent effects of prenatal and postnatal exposure. *Tob. Control* 15, 294–301. <https://doi.org/10.1136/tc.2005.015065>
- Perkins, K.A., Epstein, L.H., Stiller, R.L., Fernstrom, M.H., Sexton, J.E., Jacob, R.G., 1990. Perception and hedonics of sweet and fat taste in smokers and nonsmokers following nicotine intake. *Pharmacol. Biochem. Behav.* 35, 671–676. [https://doi.org/10.1016/0091-3057\(90\)90306-3](https://doi.org/10.1016/0091-3057(90)90306-3)
- Pineles, B.L., Park, E., Samet, J.M., 2014. Systematic Review and Meta-Analysis of Miscarriage and Maternal Exposure to Tobacco Smoke During Pregnancy. *Am. J. Epidemiol.* 179, 807–823. <https://doi.org/10.1093/aje/kwt334>
- Pryor W A, 1997. Cigarette smoke radicals and the role of free radicals in chemical carcinogenicity. *Environ. Health Perspect.* 105, 875–882. <https://doi.org/10.1289/ehp.97105s4875>
- Qiu, J., He, X., Cui, H., Zhang, C., Zhang, Honghong, Dang, Y., Han, X., Chen, Y., Tang, Z., Zhang, Hanru, Bai, H., Xu, R., Zhu, D., Lin, X., Lv, L., Xu, X., Lin, R., Yao, T., Su, J., Liu, X., Wang, W., Wang, Y., Ma, B., Liu, S., Huang, H., Lerro, C., Zhao, N., Liang, J., Ma, S., Ehrenkranz, R.A., Liu, Q., Zhang, Y., 2014. Passive Smoking and Preterm Birth in Urban China. *Am. J. Epidemiol.* 180, 94–102. <https://doi.org/10.1093/aje/kwu092>
- Register, K., 2000. Cigarette Butts as Litter—Toxic as Well as Ugly. *Bull Am Litt Soc* 25.

- RISKESDAS, 2018. Hasil Utama Riset Kesehatan Dasar Kementerian Kesehatan Republik Indonesia.
- Riswan, R., Ismawati, I., Rosmiati, R., 2021. Perbandingan Pola Konsumsi Daun Kelor Terhadap Kadar Haemoglobin Ibu Hamil Di Kecamatan Rumbia Jeneponto. *J. Komunitas Kesehat. Masy.* 3, 85–94. <https://doi.org/10.36090/jkkm.v3i1.1097>
- Roquer, J., Figueras, J., Botet, F., Jimenez, R., 1995. Influence on fetal growth of exposure to tobacco smoke during pregnancy. *Acta Paediatr.* 84, 118–121. <https://doi.org/10.1111/j.1651-2227.1995.tb13592.x>
- Rosen, L., Zucker, D., Hovell, M., Brown, N., Ram, A., Myers, V., 2015. Feasibility of Measuring Tobacco Smoke Air Pollution in Homes: Report from a Pilot Study. *Int. J. Environ. Res. Public. Health* 12, 15129–15142. <https://doi.org/10.3390/ijerph121214970>
- Sabra, S., Gratacós, E., Gómez Roig, M.D., 2017. Smoking-Induced Changes in the Maternal Immune, Endocrine, and Metabolic Pathways and Their Impact on Fetal Growth: A Topical Review. *Fetal Diagn. Ther.* 41, 241–250. <https://doi.org/10.1159/000457123>
- Saleh, M.A., Hamza, R.A., El-Asheer, O.M., El Shehaby, D.M., Ibrahim, A.K., 2021. COTININE LEVEL AS A BIOCHEMICAL INDICATOR OF THE TOXIC EFFECTS OF PASSIVE SMOKING EXPOSURE ON INFANTS' ANTHROPOMETRIC MEASURES. *Egypt. J. Forensic Sci. Appl. Toxicol.* 21, 55–68. <https://doi.org/10.21608/ejfsat.2020.25594.1134>
- Salim, H.J., 2021. Cek Fakta: Tidak Benar Ramuan Ini Bisa Bersihkan Paru-paru Perokok [WWW Document]. liputan6.com. URL <https://www.liputan6.com/cek-fakta/read/4669363/cek-fakta-tidak-benar-ramuan-ini-bisa-bersihkan-paru-paru-perokok> (accessed 4.8.23).
- Salmasi, G., Grady, R., Jones, J., McDonald, S.D., 2010. Environmental tobacco smoke exposure and perinatal outcomes: a systematic review and meta-analyses. *Acta Obstet. Gynecol. Scand.* 89, 423–441. <https://doi.org/10.3109/00016340903505748>
- Salsabilla, R., 2023. Mudah Dibuat, 6 Minuman Alami Ini Ampuh Bersihkan Paru-Paru [WWW Document]. CNBC Indones. URL <https://www.cnbcindonesia.com/lifestyle/20230222131305-33-416010/mudah-dibuat-6-minuman-alami-ini-ampuh-bersihkan-paru-paru> (accessed 4.8.23).
- Sánchez-Rodríguez, J.E., Bartolomé, M., Cañas, A.I., Huetos, O., Navarro, C., Rodríguez, A.C., Arribas, M., Esteban, M., López, A., Castaño, A., 2015. Anti-smoking legislation and its effects on urinary cotinine and cadmium levels. *Environ. Res.* 136, 227–233. <https://doi.org/10.1016/j.envres.2014.09.033>
- Satriawati, A.C., Sarti, S., Yasin, Z., Oktavianisya, N., Sholihah, R., 2021. Sayur Daun Kelor Untuk Meningkatkan Kadar Hemoglobin pada Ibu Hamil dengan Anemia. *J. Keperawatan Prof.* 2, 49–55. <https://doi.org/10.36590/kepo.v2i2.170>
- Schoots, M.H., Gordijn, S.J., Scherjon, S.A., van Goor, H., Hillebrands, J.-L., 2018. Oxidative stress in placental pathology. *Placenta* 69, 153–161. <https://doi.org/10.1016/j.placenta.2018.03.003>
- Setiati, S., Laksmi, P.W., 2019. Peran Internis dalam tata laksana penyakit-penyakit pada kehamilan. PIPInterma.

- Shakeel, S., 2014. Consideration of Tobacco Dust as Organic Amendment for Soil: A Soil & Waste Management Strategy. *Earth Sci.* 3, 117.
<https://doi.org/10.11648/j.earth.20140305.11>
- simbolon, D., Jumiyati, J., Rahmadi, A., Susanto, H.A., 2018. Pencegahan dan penanggulangan kurang energi kronik (KEK) dan anemia pada ibu hamil. Deepublish, Yogyakarta.
- Slaughter, E., Gersberg, R.M., Watanabe, K., Rudolph, J., Stransky, C., Novotny, T.E., 2011. Toxicity of cigarette butts, and their chemical components, to marine and freshwater fish. *Tob. Control* 20, i25–i29. <https://doi.org/10.1136/tc.2010.040170>
- Smith, E.R., Shankar, A.H., Wu, L.S.-F., Aboud, S., Adu-Afarwuah, S., Ali, H., Agustina, R., Arifeen, S., Ashorn, P., Bhutta, Z.A., Christian, P., Devakumar, D., Dewey, K.G., Friis, H., Gomo, E., Gupta, P., Kæstel, P., Kolsteren, P., Lanou, H., Maleta, K., Mamadoulaibou, A., Msamanga, G., Osrin, D., Persson, L.-Å., Ramakrishnan, U., Rivera, J.A., Rizvi, A., Sachdev, H.P.S., Urassa, W., West, K.P., Zagre, N., Zeng, L., Zhu, Z., Fawzi, W.W., Sudfeld, C.R., 2017. Modifiers of the effect of maternal multiple micronutrient supplementation on stillbirth, birth outcomes, and infant mortality: a meta-analysis of individual patient data from 17 randomised trials in low-income and middle-income countries. *Lancet Glob. Health* 5, e1090–e1100.
[https://doi.org/10.1016/S2214-109X\(17\)30371-6](https://doi.org/10.1016/S2214-109X(17)30371-6)
- Sourander, A., Sucksdorff, M., Chudal, R., Surcel, H.M., Hinkka-Yli-Salomäki, S., Gyllenberg, D., Cheslack-Postava, K., Brown, A.S., 2019. Prenatal Cotinine Levels and ADHD Among Offspring. *Pediatrics* 143. <https://doi.org/10.1542/peds.2018-3144>
- Spindel, E.R., McEvoy, C.T., 2016. The Role of Nicotine in the Effects of Maternal Smoking during Pregnancy on Lung Development and Childhood Respiratory Disease. Implications for Dangers of E-Cigarettes. *Am. J. Respir. Crit. Care Med.* 193, 486–494. <https://doi.org/10.1164/rccm.201510-2013PP>
- Stéphan-Blanchard, E., Chardon, K., Djeddi, D.-D., Léké, A., Delanaud, S., Bach, V., Telliez, F., 2016. The dynamics of cardiac autonomic control in sleeping preterm neonates exposed in utero to smoking. *Clin. Neurophysiol.* 127, 2871–2877.
<https://doi.org/10.1016/j.clinph.2016.05.001>
- Stephenson, J., Heslehurst, N., Hall, J., Schoenaker, D.A.J.M., Hutchinson, J., Cade, J.E., Poston, L., Barrett, G., Crozier, S.R., Barker, M., Kumaran, K., Yajnik, C.S., Baird, J., Mishra, G.D., 2018. Before the beginning: nutrition and lifestyle in the preconception period and its importance for future health. *The Lancet* 391, 1830–1841. [https://doi.org/10.1016/S0140-6736\(18\)30311-8](https://doi.org/10.1016/S0140-6736(18)30311-8)
- Suarez, L., Ramadhani, T., Felkner, M., Canfield, M.A., Brender, J.D., Romitti, P.A., Sun, L., 2011. Maternal smoking, passive tobacco smoke, and neural tube defects. *Birt. Defects Res. A. Clin. Mol. Teratol.* 91, 29–33. <https://doi.org/10.1002/bdra.20743>
- Suter, M.A., Aagaard-Tillery, K.M., 2009. Environmental influences on epigenetic profiles. *Semin. Reprod. Med.* 27, 380–390. <https://doi.org/10.1055/s-0029-1237426>
- Taghavi, T., Arger, C.A., Heil, S.H., Higgins, S.T., Tyndale, R.F., 2018. Longitudinal Influence of Pregnancy on Nicotine Metabolic Pathways. *J. Pharmacol. Exp. Ther.* 364, 238–245.
<https://doi.org/10.1124/jpet.117.245126>

- Talbot, L., MacLennan, K., 2016. Physiology of pregnancy. *Anaesth. Intensive Care Med.* 17, 341–345. <https://doi.org/10.1016/j.mpaitc.2016.04.010>
- Talhout, R., Schulz, T., Florek, E., Van Benthem, J., Wester, P., Opperhuizen, A., 2011. Hazardous Compounds in Tobacco Smoke. *Int. J. Environ. Res. Public. Health* 8, 613–628. <https://doi.org/10.3390/ijerph8020613>
- Taufiqurrahman, T., Christyaningsih, J., 2021. The Effect of Moringa Oleifera L. Against Serum Protein and Tissue in Pregnancy. *Pharmacophore Int. Res. J.* 12, 55–60.
- Torres, S., Merino, C., Paton, B., Correig, X., Ramírez, N., 2018. Biomarkers of Exposure to Secondhand and Thirdhand Tobacco Smoke: Recent Advances and Future Perspectives. *Int. J. Environ. Res. Public. Health* 15, 2693. <https://doi.org/10.3390/ijerph15122693>
- Triananins, N., Marlina, 2019. PENGARUH KONSUMSI KAPSUL DAUN KELOR TERHADAP KADAR HB IBU HAMIL DI WILAYAH KERJA PUSKESMAS BIRU KAB. BONE TAHUN 2018. *J. ANTARA KEBIDANAN* 2, 104–114. <https://doi.org/10.37063/ak.v2i3.84>
- Triche, E.W., Hossain, N., 2007. Environmental Factors Implicated in the Causation of Adverse Pregnancy Outcome. *Semin. Perinatol., Adverse Pregnancy Outcome and the Fetus/Neonate* 31, 240–242. <https://doi.org/10.1053/j.semperi.2007.07.013>
- Tröbs, M., Renner, T., Scherer, G., Heller, W.-D., Geiß, H.C., Wolfram, G., Haas, G.-M., Schwandt, P., 2002. Nutrition, Antioxidants, and Risk Factor Profile of Nonsmokers, Passive Smokers and Smokers of the Prevention Education Program (PEP) in Nuremberg, Germany. *Prev. Med.* 34, 600–607. <https://doi.org/10.1006/pmed.2002.1024>
- Tsuji, M., Kanda, H., Hayakawa, T., Mori, Y., Ito, T., Hidaka, T., Kakamu, T., Kumagai, T., Osaki, Y., Kawazoe, M., Sato, S., Fukushima, T., 2017. Nicotine cut-off value in human hair as a tool to distinguish active from passive smokers: A cross-sectional study in Japanese men. *Cancer Biomark.* 20, 41–48. <https://doi.org/10.3233/CBM-170004>
- Upadhyay, P., YADAV, M., Mishra, S., Sharma, P., Purohit, P., 2015. Moringa oleifera : A review of the medical evidence for its nutritional and pharmacological properties. *Int. J. Res. Pharm. Sci.* 2015, 12–16.
- Utama, D., Daud, A., Masni, M., 2019. Air Pollution Index and Inhalation Risk Assessment to Carbon Monoxide and Nitrogen Dioxide to Traders in the bus station, in: Proceedings of the Proceedings of the 3rd International Conference on Environmental Risks and Public Health, ICER-PH 2018, 26-27, October 2018, Makassar, Indonesia. Presented at the Proceedings of the 3rd International Conference on Environmental Risks and Public Health, ICER-PH 2018, 26-27, October 2018, Makassar, Indonesia, EAI, Makassar, Indonesia. <https://doi.org/10.4108/eai.26-10-2018.2288621>
- Ward, C., Lewis, S., Coleman, T., 2007. Prevalence of maternal smoking and environmental tobacco smoke exposure during pregnancy and impact on birth weight: retrospective study using Millennium Cohort. *BMC Public Health* 7, 81. <https://doi.org/10.1186/1471-2458-7-81>

- Wickstrom, R., 2007. Effects of Nicotine During Pregnancy: Human and Experimental Evidence [WWW Document].
<https://doi.org/info:doi/10.2174/157015907781695955>
- World Health Organization, 2017. WHO report on the global tobacco epidemic, 2017: monitoring tobacco use and prevention policies. World Health Organization, Geneva.
- Wu, F.-Y., Wu, H.-D.I., Yang, H.-L., Kuo, H.-W., Ying, J.C., Lin, C.-J., Yang, C.-C., Lin, L.-Y., Chiu, T.-H., Lai, J.-S., 2007. Associations among genetic susceptibility, DNA damage, and pregnancy outcomes of expectant mothers exposed to environmental tobacco smoke. *Sci. Total Environ.* 386, 124–133.
<https://doi.org/10.1016/j.scitotenv.2007.06.003>
- Xie, C., Wen, X., Niu, Z., Ding, P., Liu, T., He, Y., Lin, J., Yuan, S., Guo, X., Jia, D., Chen, W., 2015. Combinations of CYP2A6*4 and Glutathione S-Transferases Gene Polymorphisms Modify the Association Between Maternal Secondhand Smoke Exposure During Pregnancy and Small-for-Gestational-Age. *Nicotine Tob. Res.* 17, 1421–1427. <https://doi.org/10.1093/ntr/ntv072>
- Yuliani, N.N., Dienina, D.P., 2015. UJI AKTIVITAS ANTI OKSIDAN INFUSA DAUN KELOR (*Moringa oleifera*, Lamk) DENGAN METODE 1,1- diphenyl-2-picrylhydrazyl (DPPH). *J. INFO Kesehat.* 13, 1060–1082.
- Yusnidar, Y., Dahlan, A.K., Patmahwati, P., 2020. PENGARUH PEMBERIAN TEPUNG DAUN KELOR (MORINGA OLIEFERA) PADA IBU HAMIL TERHADAP BERAT BADAN BAYI BARU LAHIR. *Voice Midwifery* 10, 896–902. <https://doi.org/10.35906/vom.v10i1.106>

LAMPIRAN

LAMPIRAN 1

INFORM CONSENT

PERAN FAKTOR SANITASI DAN NEUTROFIL LIMFOSIT RATIO (NLR) TERHADAP LUARAN KEHAMILAN PADA IBU HAMIL YANG MENERIMA EKSTRAK DAUN KELOR (*Moringa oleifera*) SEJAK MASA PRAKONSEPSI DI KABUPATEN TAKALAR

Assalamualaikum wr. wb

Yang terhormat Ibu, perkenalkan nama kami dr.Miranti, M.Kes dan tim, pada kesempatan kali ini kami mohon kesediaan Ibu untuk berkenan menjadi responden penelitian dengan judul tersebut di atas, sehingga kami akan menanyakan kepada Ibu beberapa pertanyaan yang berkaitan dengan Sanitasi dan Kesehatan, serta kesediaan pengambilan sampel darah. Untuk jawaban yang Ibu berikan dan hasil pemeriksaan darah tersebut akan kami kaji dan senoga kedepan akan menjadi informasi dan bermanfaat bagi peningkata program kesehatan di kabupaten Takalar dan kami menjamin kerahasiaannya.

Apakah Ibu bersedia menjadi responden pada penelitian ini?

1. Ya
2. Tidak

Atas bantuan dan kesediaan waktu yang telah Ibu berikan, kami ucapkan terimakasih. Wassalamualaikum wr. wb.

LEMBAR PERSETUJUAN (INFORM COSENT)

Setelah mendengar penjelasan tentang mengenai tujuan penelitian, prosedur penelitian, manfaat dan inti dari kuesioner ini. Saya mengerti bahwa:

- Pada diri saya akan dilakukan wawancara sesuai dengan pertanyaan pada kuesioner Maka dengan ini saya yang bertanda tangan di bawah ini:

Nama ibu : _____
 Umur : _____ tahun
 Alamat : _____
 Wilayah Puskesmas : _____
 Usia Kehamilan : _____
 No. Telepon : _____

Menyatakan setuju untuk berpartisipasi sebagai subyek penelitian ini secara sukarela dan bebas tanpa ada paksaan, dengan catatan apabila merasa dirugikan dalam penelitian ini dalam bentuk apapun berhak membatalkan persetujuan ini.

_____, tanggal ___/___/2021

Pembuat pernyataan,

(_____)

LAMPIRAN 2**Kuisisioner paparan asap rokok sekunder**

No	Pertanyaan	Jawaban
1	Apakah terdapat anggota keluarga yang merokok di rumah? 1) Ya 2) Tidak	
2	Berapa orang yang merokok dalam rumah anda? (sebutkan jumlah)	
3	Berapa batang rokok yang dikonsumsi oleh anggota keluarga perhari di rumah? (sebutkan jumlah rata-rata)	
4	Berapa jam sehari anggota keluarga merokok di rumah? 1) Tidak pernah 2) < 1 jam 3) 1-4 jam 4) >4 jam	
5	Berapa hari dalam seminggu mereka merokok di rumah? (sebutkan jumlah hari rata-rata)	
6	Apakah terdapat perokok di tempat kerja anda? 1) Ya 2) Tidak	
7	Berapa jam sehari orang merokok di tempat kerja anda? 1) Tidak pernah 2) < 1 jam 3) 1-4 jam 4) >4 jam	
8	Berapa hari dalam seminggu anda terpapar rokok di tempat kerja? (sebutkan jumlah hari rata-rata)	

LAMPIRAN 3**SOP PENGAMBILAN DARAH VENA DAN SALIVA****PENELITIAN EKSTRAK DAUN KELOR DAN IFA DI KECAMATAN
POLOMBANGKENG KABUPATEN TAKALAR**

1. Pengambilan darah vena sebaiknya dilakukan pada pagi hari sebelum sarapan setelah tidak makan selama 8-10 jam, apabila tidak memungkinkan dilakukan pada waktu kapanpun sepanjang hari.
2. Pengambilan saliva dapat dilakukan kapanpun tanpa persiapan khusus
3. Pengambilan darah vena dilakukan oleh petugas kesehatan terampil seperti perawat atau analis
4. Darah vena ditampung di tabung vacutainer EDTA warna ungu untuk pemeriksaan hematologi dan vacutainer merah untuk pemeriksaan kimia klinik dan imunologi.
5. Pengambilan saliva dilakukan oleh subjek penelitian sendiri dan ditampung dalam tabung merah
6. Tabung darah dan saliva diberi label dan dicantumkan nama, umur dan kode sampel yang disepakati peneliti.
7. Sampel didata dan diberi kode untuk memudahkan penyusunan dan penelusuran data
8. Pemberian kode dilakukan oleh enumerator
9. Darah EDTA sebaiknya langsung diperiksa dengan alat pemeriksaan Hematology analyzer 5 diff dan apabila tdk memungkinkan disimpan di lemari es suhu 2-8 °C hingga 2 hari
10. Pemisahan serum dilakukan dari tabung merah dengan sentrifus 10 menit 3500 rpm. Serum dipisahkan dalam cup-cup sampel minimal 1 ml per cup sampel, diusahakan sebanyak mungkin cup sampel (replikat) untuk mengantisipasi pengulangan pemeriksaan.
11. Serum dan saliva dapat disimpan di freezer suhu -20°C atau -80°C hingga pemeriksaan dilakukan
12. Pengiriman serum/darah EDTA/saliva ke Makassar dilakukan dengan tromol es untuk menjaga suhu sampel darat.
13. Sampel yang di terima di Laboratorium humRC UNHAS dan disimpan dalam lemari es hingga waktu pemeriksaan sampel.
14. Sampel serum dan saliva diperiksa dengan metode ELISA
15. Hasil pemeriksaan dikirimkan ke peneliti dalam bentuk excel.

16. Sisa sampel serum disimpan hingga 6 bulan sejak pemgambilan sampel apabila dibutuhkan di kemudian hari

LAMPIRAN 4



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN

RISET, DAN TEKNOLOGI

UNIVERSITAS HASANUDDIN

FAKULTAS KESEHATAN MASYARAKAT

Jln. Perintis Kemerdekaan Km. 10 Makassar 90245, Telp. (0411) 585658,

E-mail : fkm.unhas@gmail.com, website: <https://fkm.unhas.ac.id/>

REKOMENDASI PERSETUJUAN ETIK

Nomor : **4885/UN4.14.1/TP.02.02/2021**

Tanggal : 2 Agustus 2022

Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

No.Protokol	05111993029	No. Sponsor Protokol	
Peneliti Utama	Haerani Harun	Sponsor	Pribadi
Judul Peneliti	Luaran Kehamilan Pada Ibu Hamil dengan Intervensi Ekstrak Daun Kelor (Moringa Oleifera) yang Terpapar Asap Rokok di Kecamatan Polobangkeng Utara, Takalar		
No.Versi Protokol	1	Tanggal Versi	5 November 2019
No.Versi PSP	1	Tanggal Versi	5 November 2019
Tempat Penelitian	Kecamatan Polongbangkeng Utara, Kabupaten Takalar		
Judul Review	<input type="checkbox"/> Exempted <input type="checkbox"/> Expedited <input checked="" type="checkbox"/> Fullboard	Masa Berlaku 2 Agustus 2022 Sampai 2 Agustus 2023	Frekuensi review lanjutan
Ketua Komisi Etik Penelitian	Nama : Prof.dr. Veni Hadju,M.Sc,Ph.D	Tanda tangan 	Tanggal 2 Agustus 2022
Sekretaris komisi Etik Penelitian	Nama : Dr. Wahiduddin, SKM.,M.Kes	Tanda tangan 	Tanggal 2 Agustus 2022

Kewajiban Peneliti Utama :

1. Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
2. Menyerahkan Laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan Lapor SUSAR dalam 72 Jam setelah Peneliti Utama menerima laporan
3. Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
4. Menyerahkan laporan akhir setelah Penelitian berakhir
5. Melaporkan penyimpangan dari protocol yang disetujui (protocol deviation/violation)
6. Mematuhi semua peraturan yang ditentukan

LAMPIRAN 5**CURICULUM VITAE****I. DATA PRIBADI**

1. Nama : Haerani Harun
2. NIP : 19811214 200812 2 001
3. Jenis Kelamin : Perempuan
4. Agama : Islam
5. Tempat Tanggal lahir : Ujung Pandang, 14 Desember 1981
6. Alamat : Jl Mangga I no 30 Palu Barat
7. Institusi : Universitas Tadulako Palu Sulawesi Tengah

II. RIWAYAT PENDIDIKAN

1. SD Muhammadiyah I Ujung Pandang, lulus tahun 1994
2. MTs Al Muhajirin Palu, lulus tahun 1997
3. SMU Negeri 1 Palu, lulus tahun 2000
4. Sarjana Kedokteran Fakultas Kedokteran Universitas Hasanuddin Makassar, lulus tahun 2005
5. Profesi Dokter Fakultas Kedokteran Universitas Hasanuddin, Makassar, lulus tahun 2007
6. Program Pendidikan Dokter Spesialis Patologi Klinik Fakultas Kedokteran Universitas Hasanuddin, Periode Juli 2012, lulus tahun 2016
7. Program Master Biomedik Program Pasca Sarjana Universitas Hasanuddin Makassar, Periode juli 2012, lulus tahun 2016
8. Pendidikan Doktor FKM Universitas Hasanuddin 2018-sekarang

III. RIWAYAT PEKERJAAN

1. CPNS : Universitas Tadulako Fakultas Matematika dan Ilmu Pengetahuan Alam Palu Sulawesi Tengah (2008-2011)
2. PNS : Universitas Tadulako Fakultas Kedokteran dan Ilmu Kesehatan Palu Sulawesi Tengah (2011 – sekarang)
3. Dokter spesialis Patologi Klinik di RS Anutapura Palu (Agustus 2017 – sekarang)

4. Dokter spesialis Patologi Klinik di RSU Tadulako (Agustus 2017 – 2022)
5. Dokter spesialis Patologi Klinik di RS Wirabuana Palu (Agustus 2019 – sekarang)

IV. KARYA ILMIAH

1. *Platelet lymphocyte ratio* (PLR) sebagai Penanda pada Sindrom Koroner Akut (2014)
2. *Acute myeloid Leukemia* (AML) M5b (2016)
3. Tobacco Smoke and Pregnancy Outcome: Literature Review (2020)

LAMPIRAN 6

Tests of Normality

Kode_kapsul		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Rokok1	A	0.389	30	0.000	0.624	30	0.000
	B	0.535	26	0.000	0.301	26	0.000

a. Lilliefors Significance Correction

Test Statistics^a

Rokok7	
Mann-Whitney U	385.500
Wilcoxon W	850.500
Z	-0.166
Asymp. Sig. (2-tailed)	0.868

a. Grouping Variable:
Kode_kapsul

Kode_kapsul		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Rokok2	A	0.241	30	0	0.822	30	0
	B	0.269	26	0	0.779	26	0

Test Statistics^a

Rokok2	
Mann-Whitney U	254.500
Wilcoxon W	719.500
Z	-2.374
Asymp. Sig. (2-tailed)	0.018

Tests of Normality

Kode_kapsul		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Rokok3	A	0.216	30	0.001	0.826	30	0
	B	0.217	26	0.003	0.852	26	0.002

Test Statistics^a

Rokok3	
Mann-Whitney U	208.500
Wilcoxon W	673.500
Z	-3.045
Asymp. Sig. (2-tailed)	0.002

a. Grouping Variable:
Kode_kapsul

Tests of Normality

Kode_kapsul		Kolmogorov-Smirnov ^a			Shapiro-Wilk	
		Statistic	df	Sig.	Statistic	df
Rokok4	A	0.237	30	0.000	0.831	30
	B	0.219	26	0.002	0.884	26

Test Statistics^a

Rokok4	
Mann-Whitney U	259.500
Wilcoxon W	724.500
Z	-2.232
Asymp. Sig. (2-tailed)	0.026

a. Grouping Variable:
Kode_kapsul

Tests of Normality

	Kode_kapsul	Kolmogorov-Smirnov ^a			Shapiro-Wilk	
		Statistic	df	Sig.	Statistic	df
Rokok5	A	0.252	30	0.000	0.755	30
	B	0.404	26	0.000	0.661	26

Test Statistics^a

Rokok5
Mann-Whitney U
259.500
Wilcoxon W
724.500
Z
-2.319
Asymp. Sig. (2-tailed)
0.020

a. Grouping Variable:
Kode_kapsul

Tests of Normality

	Kode_kapsul	Kolmogorov-Smirnov ^a			Shapiro-Wilk	
		Statistic	df	Sig.	Statistic	df
Rokok6	A	0.537	30	0.000	0.275	30
	B	0.535	26	0.000	0.301	26

Test Statistics^a

Rokok6
Mann-Whitney U
386.000
Wilcoxon W
737.000
Z
-0.147
Asymp. Sig. (2-tailed)
0.883

a. Grouping Variable:
Kode_kapsul

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk	
		Statistic	df	Sig.	Statistic	df
Kode_kapsul	A	0.531	30	0.000	0.273	30
	B	0.522	26	0.000	0.279	26

Test Statistics^a

Rokok7	
Mann-Whitney U	385.500
Wilcoxon W	850.500
Z	-0.166
Asymp. Sig. (2-tailed)	0.868

a. Grouping Variable:
Kode_kapsul

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
BBL	0.131	56		0.018	0.961	56	0.069
PBL	0.188	56		0.000	0.832	56	0.000
Kotinin	0.088	56		.200*	0.988	56	0.839

Spearman's rho	Kotinin	Kotinin		BBL	
		Correlation Coefficient	1.000		
		Sig. (2-tailed)	0.054		
BBL		N			
		56	56		
		Correlation Coefficient	0.259	1.000	
		Sig. (2-tailed)	0.054		

	N	56	56
--	---	----	----

Correlations

		Kotinin	PBL
Spearman's rho	Kotinin	Correlation Coefficient	1.000
		Sig. (2-tailed)	0.058
		N	56
PBL		Correlation Coefficient	0.255
		Sig. (2-tailed)	0.058
		N	56

Korelasi kotinin serum dan BBL pada kelompok IFA

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Kotinin	.130	30	.200*	.961	30	.329
PBL	.194	30	.006	.879	30	.003
BBL	.185	30	.011	.944	30	.119

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Correlations

		BBL	Kotinin
Spearman's rho	BBL	Correlation Coefficient	1.000
		Sig. (2-tailed)	.090
		N	30
Kotinin		Correlation Coefficient	.315
		Sig. (2-tailed)	.090
		N	30

Correlations

			Kotinin	PBL
Spearman's rho	Kotinin	Correlation Coefficient	1.000	.397*
		Sig. (2-tailed)	.	.030
		N	30	30
	PBL	Correlation Coefficient	.397*	1.000
		Sig. (2-tailed)	.030	.
		N	30	30

*. Correlation is significant at the 0.05 level (2-tailed).

korelasi kotinin serum dan BBL pada kelompok IFA + ekstrak daun kelor

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Kotinin	.088	26	.200*	.969	26	.586
BBL	.143	26	.183	.957	26	.337
PBL	.243	26	.000	.801	26	.000

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Correlations

		Kotinin	BBL
Kotinin	Pearson Correlation	1	.220
	Sig. (2-tailed)		.281
	N	26	26
BBL	Pearson Correlation	.220	1
	Sig. (2-tailed)	.281	
	N	26	26

Correlations

			Kotinin	PBL
Spearman's rho	Kotinin	Correlation Coefficient	1.000	.120
		Sig. (2-tailed)	.	.558
		N	26	26
	PBL	Correlation Coefficient	.120	1.000
		Sig. (2-tailed)	.558	.
		N	26	26

Tests of Normality

Kode_kapsul		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
BBL	A	0.152	13	.200*	0.969	13	0.886
	B	0.238	16	0.016	0.796	16	0.002

Test Statistics^a

	BBL
Mann-Whitney U	95.500
Wilcoxon W	231.500
Z	-0.374
Asymp. Sig. (2-tailed)	0.708
Exact Sig. [2*(1-tailed Sig.)]	.714 ^b

Tests of Normality

Kode_kapsul		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
BBL	A	0.278	17	0.001	0.840	17	0.007
	B	0.130	10	.200*	0.982	10	0.974

Test Statistics^a

BBL	
Mann-Whitney U	62.000
Wilcoxon W	215.000
Z	-1.168
Asymp. Sig. (2-tailed)	0.243
Exact Sig. [2*(1-tailed Sig.)]	.264 ^b

Tests of Normality

Kode_kapsul		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
PBL	A	0.231	13	0.057	0.786	13	0.005
	B	0.203	16	0.076	0.863	16	0.022

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means				95% Confidence Interval of the Difference		
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
PBL	Equal variances assumed	0.757	0.392	-0.398	27	0.694	-0.293	0.737	-1.806	1.219
	Equal variances not assumed			-0.381	19.947	0.707	-0.293	0.769	-1.898	1.312

Tests of Normality

Kode_kapsul		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
PBL	A	0.336	17	0.000	0.705	17	0.000
	B	0.330	10	0.003	0.808	10	0.018

Test Statistics^a

PBL	
Mann-Whitney U	75.000
Wilcoxon W	228.000
Z	-0.536
Asymp. Sig. (2-tailed)	0.592
Exact Sig. [2*(1-tailed Sig.)]	.639 ^b

Regresi Logistik paparan asap rokok terhadap BBL

Model Summary			
Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	22,711 ^a	0.103	0.257

Hosmer and Lemeshow Test			
Step	Chi-square	df	Sig.
1	3.160	6	0.789

Variables in the Equation

	B	S.E.	Wald	df	Sig.	Exp(B)	95% C.I.for EXP(B)	
							Lower	Upper
Step 1 ^a	Rokok1	-46,102	18030,294	,000	1	,998	,000	,000
	Rokok2	-1,706	1,238	1,898	1	,168	,182	,016
	Rokok3	,304	,396	,589	1	,443	1,355	,624
	Rokok4	-,596	1,146	,270	1	,603	,551	,058
	Rokok5	-6,165	2575,756	,000	1	,998	,002	,000
	Rokok6	-11,819	46430,514	,000	1	1,000	,000	,000
	Rokok7	2,174	22298,179	,000	1	1,000	8,789	,000
	Rokok8	,286	10444,181	,000	1	1,000	1,331	,000
	Constant	116,057	115039,443	,000	1	,999	2,529E+50	

a. Variable(s) entered on step 1: Rokok1, Rokok2, Rokok3, Rokok4, Rokok5, Rokok6, Rokok7, Rokok8.

Regresi logistic risiko paparan asap rokok terhadap PBL

Model Summary

Step	-2 Log likelihood	Cox & Snell R	Nagelkerke R
		Square	Square
1	51,489 ^a	,151	,229

a. Estimation terminated at iteration number 20 because maximum iterations has been reached. Final solution cannot be found.

Hosmer and Lemeshow Test

Step	Chi-square	df	Sig.
1	6,597	6	,360

Variables in the Equation

	B	S.E.	Wald	df	Sig.	Exp(B)	95% C.I.for EXP(B)	
							Lower	Upper
Step 1 ^a	Rokok1	-2,450	1,740	1,983	1	,159	,086	,003
	Rokok2	-1,333	,817	2,662	1	,103	,264	,053

Rokok3	,032	,102	,100	1	,752	1,033	,846	1,261
Rokok4	-,453	,716	,400	1	,527	,636	,156	2,586
Rokok5	,193	,228	,714	1	,398	1,212	,776	1,895
Rokok6	-37,895	47513,016	,000	1	,999	,000	,000	.
Rokok7	-22,782	24837,074	,000	1	,999	,000	,000	.
Rokok8	3,771	8032,212	,000	1	1,000	43,435	,000	.
Constant	104,513	115469,598	,000	1	,999	2,451E+45		

a. Variable(s) entered on step 1: Rokok1, Rokok2, Rokok3, Rokok4, Rokok5, Rokok6, Rokok7, Rokok8.

Analisis Ancova

Tests of Between-Subjects Effects

Dependent Variable: Kat.BBL

Source	Type III Sum of		Mean Square	F	Sig.
	Squares	df			
Corrected Model	669819,235 ^a	2	334909,617	1,671	,198
Intercept	122110545,800	1	122110545,800	609,191	,000
Paparan_Asap_Rokok	669621,350	1	669621,350	3,341	,073
Kapsul	57,984	1	57,984	,000	,986
Error	10623693,270	53	200447,043		
Total	520768300,000	56			
Corrected Total	11293512,500	55			

a. R Squared = .059 (Adjusted R Squared = .024)

Tests of Between-Subjects Effects

Dependent Variable: Kat.PBL

Source	Type III Sum of		Mean Square	F	Sig.
	Squares	df			
Corrected Model	4,159 ^a	2	2,079	,489	,616
Intercept	28058,694	1	28058,694	6597,808	,000
Paparan_Asap_Rokok	4,151	1	4,151	,976	,328
Kapsul	,010	1	,010	,002	,961
Error	225,395	53	4,253		

Total	131471,000	56			
Corrected Total	229,554	55			

a. R Squared = .018 (Adjusted R Squared = -.019)

		Kode_kapsul		Total
		IFA	IFA+kelor	
Kat.BBL	<2500	4	0	4
	>2500	26	26	52
Total		30	26	56

0.133333 0

0.866667 1

0

0.866667 1.153846

		Kode_kapsul		Total
		IFA	IFA+kelor	
Kat.PBL	<48	7	6	13
	>48	23	20	43
Total		30	26	56

0.233333 0.230769

0.766667 0.769231

1.011111 0.989011

0.996667 1.003344

		KatPapRokok		Total
		tinggi	rendah	
Kat.BBL	<2500	2	2	4
	>2500	40	12	52
Total		42	14	56

0.047619 0.142857

0.952381 0.857143

0.333333 3

1.111111 0.9

		KatPapRokok		Total
		Tinggi	rendah	
Kat.PBL	<48	8	5	13
	>48	34	9	43

Total	42	14	56
0.190476	0.357143		
0.809524	0.642857		
0.533333	1.875		
1.259259	0.794118		

		Kotinin		Total
		tinggi	rendah	
Kat.BBL	<2500	3	1	4
	>2500	26	26	52
Total		29	27	56
		0.103448	0.037037	
		0.896552	0.962963	
		2.793103	0.358025	
		0.931034	1.074074	
		Kotinin		Total
		kadar kotinin rendah	kadar kotinin tinggi	
Kat.PBL	<48	9	4	13
	>48	20	23	43
Total		29	27	56
		0.310345	0.148148	
		0.689655	0.851852	
		2.094828	0.477366	
		0.809595	1.235185	

Perhitungan risiko relative dan 95%CI

Intervensi * Kat.BBL Crosstabulation

		Kat.BBL		Total
		BBLR	BBL normal	
Intervensi	IFA+klelor	0	26	26
	IFA	4	26	30
Total		4	52	56

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	3.733 ^a	1	0.053		
Continuity Correction ^b	1.994	1	0.158		
Likelihood Ratio	5.259	1	0.022		
Fisher's Exact Test				0.115	0.075
N of Valid Cases	56				

a. 2 cells (50.0%) have expected count less than 5. The minimum expected count is 1.86.

b. Computed only for a 2x2 table

Risk Estimate

	Value	95% Confidence Interval	
		Lower	Upper
For cohort Kat.BBL = BBL normal	1.154	1.003	1.328
N of Valid Cases	56		

Intervensi * Kat.PBL Crosstabulation

Count

Intervensi		Kat.PBL		Total
		<48	>48	
Intervensi	IFA+klelor	6	20	26
	IFA	7	23	30
Total		13	43	56

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.001 ^a	1	0.982		
Continuity Correction ^b	0.000	1	1.000		
Likelihood Ratio	0.001	1	0.982		
Fisher's Exact Test				1.000	0.617
N of Valid Cases	56				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 6.04.

b. Computed only for a 2x2 table

	Value	95% Confidence Interval	
		Lower	Upper
Odds Ratio for Intervensi (IFAl+klelor / IFA)	0.986	0.284	3.421
For cohort Kat.PBL = <48	0.989	0.380	2.572
For cohort Kat.PBL = >48	1.003	0.752	1.339
N of Valid Cases	56		

Kadar kotinin serum * Kat.BBL Crosstabulation

Count

		Kat.BBL		Total
		BBLR	BBL normal	
Kadar kotinin serum	tinggi	1	26	27
	rendah	3	26	29
Total		4	52	56

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.930 ^a	1	0.335		
Continuity Correction ^b	0.198	1	0.656		
Likelihood Ratio	0.975	1	0.323		
Fisher's Exact Test				0.612	0.333
N of Valid Cases	56				

a. 2 cells (50.0%) have expected count less than 5. The minimum expected count is 1.93.

b. Computed only for a 2x2 table

Risk Estimate

	Value	95% Confidence Interval	
		Lower	Upper
Odds Ratio for Kadar kotinin serum (tinggi / rendah)	0.333	0.033	3.418
For cohort Kat.BBL = BBLR	0.358	0.040	3.236
For cohort Kat.BBL = BBL normal	1.074	0.930	1.241
N of Valid Cases	56		

Kadar kotinin serum * Kat.PBL Crosstabulation

Count

		Kat.PBL		Total
		<48	>48	
Kadar kotinin serum	tinggi	4	23	27
	rendah	9	20	29
Total		13	43	56

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	2.064 ^a	1	0.151		
Continuity Correction ^b	1.254	1	0.263		
Likelihood Ratio	2.112	1	0.146		

Fisher's Exact Test				0.209	0.131
N of Valid Cases	56				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 6.27.

b. Computed only for a 2x2 table

	Value	95% Confidence Interval	
		Lower	Upper
Odds Ratio for Kadar kotinin serum (tinggi / rendah)	0.386	0.103	1.449
For cohort Kat.PBL = <48	0.477	0.166	1.371
For cohort Kat.PBL = >48	1.235	0.924	1.651
N of Valid Cases	56		

Kategori paparan asap rokok * Kat.BBL Crosstabulation

Count

		Kat.BBL		Total
		BBLR	BBL normal	
Kategori paparan asap rokok	tinggi	2	40	42
	rendah	2	12	14
Total		4	52	56

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	1.436 ^a	1	0.231		
Continuity Correction ^b	0.359	1	0.549		
Likelihood Ratio	1.255	1	0.263		
Fisher's Exact Test				0.258	0.258

N of Valid Cases	56			
------------------	----	--	--	--

a. 2 cells (50.0%) have expected count less than 5. The minimum expected count is 1.00.

b. Computed only for a 2x2 table

	Value	95% Confidence Interval	
		Lower	Upper
Odds Ratio for Kategori paparan asap rokok (tinggi / rendah)	0.300	0.038	2.362
For cohort Kat.BBL = BBLR	0.333	0.052	2.150
For cohort Kat.BBL = BBL normal	1.111	0.888	1.390
N of Valid Cases	56		

Kategori paparan asap rokok * Kat.PBL Crosstabulation

Count

		Kat.PBL		Total
		<48	>48	
Kategori paparan asap rokok	tinggi	8	34	42
	rendah	5	9	14
Total		13	43	56

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	1.636 ^a	1	0.201		
Continuity Correction ^b	0.835	1	0.361		
Likelihood Ratio	1.538	1	0.215		
Fisher's Exact Test				0.274	0.179
N of Valid Cases	56				

a. 1 cells (25.0%) have expected count less than 5. The minimum expected count is 3.25.

b. Computed only for a 2x2 table

Risk Estimate

		95% Confidence Interval	
	Value	Lower	Upper
Odds Ratio for Kategori paparan asap rokok (tinggi / rendah)	0.424	0.111	1.613
For cohort Kat.PBL = <48	0.533	0.208	1.365
For cohort Kat.PBL = >48	1.259	0.830	1.911
N of Valid Cases	56		

LAMPIRAN 7**FOTO DOKUMENTASI**



