

DAFTAR PUSTAKA

- AASM (American Academy of Sleep Medicine), Insomnia 2008, available at www.aasmnet.org/resources. (diakses 27 April 2021)
- Arifah, S., & Purwanti, O.S. 2017. Pengaruh Pemberian Epineprin Dan Hidrokortison Terhadap Jumlah Dan Diameter Germinal Center Kelenjar Getah Bening Tikus Putih Jantan Wistar. *Jurnal Ilmu Keperawatan*. 1(3): 101-106
- Arjadi, F., Partadireja, G., Maurits, L.S. & Pangestu, M. 2015. Paradoxical sleep deprivation changes testicular malondialdehyde and caspase-3 expression in male rats. *Universa Medicina*. 34(2); 87-95.
- Aryosetyo, L. 2009. Hubungan antara Jumlah Leukosit dengan Morfologi Spermatozoa pada Pasien Infertilitas di Rumah Sakit Dokter Kriadi. *Laporan Penelitian*. Fakultas Kedokteran. Universitas Diponegoro, Semarang.
- Baratawidjaya, K. G. Rengganis, I., 2018. *Imunologi Dasar* Edisi ke-12. Badan Penerbit Fakultas Kedokteran Universitas Indonesia; Jakarta.
- Bianchi, M.T. 2014. *Sleep Deprivation and Disease*.
- Carrillo-Vico, A., Lardone, P. J., Alvarez-Sánchez, N., Rodríguez-Rodríguez, A., & Guerrero, J. M. 2013. Melatonin: Buffering The Immune System. *International Journal of Molecular Sciences*. 14(4):8638–8683.
- Chattu, V. K., Manzar, M. D., Kumary, S., Burman, D., Spence, D. W., & Pandi-Perumal, S. R. 2018. The Global Problem of Insufficient Sleep and Its Serious Public Health Implications. *Healthcare (Basel, Switzerland)*. Vol 7(1).
- Chennaoui, M., Gomez-Merino, D., Drogou, C., Geoffroy, H., Dispersyn, G., Langrume, C., Ciret, S., Gallopin, T. & Sauvet, F. 2015. Effects of exercise on brain and peripheral inflammatory biomarkers induced by total sleep deprivation in rats. *Journal of Inflammation (United Kingdom)*, 12(1). /pmc/articles/PMC4588685/ 18 March 2021.
- Choi, E. Y., Ji, Y. J., Lee, J. Y., Choi, J. I., In, S. C., Kim, S. J. 2010. Melatonin Inhibits *Prevotella intermedia* Lipopolysaccharide-induced Production of Nitric Oxide and Interleukin-6 in Murine Macrophages by Suppressing NF-κB and STAT1 Activity. *Journal of Pineal Research*. 197-205.
- Cohen, S., Doyle, W. J., Alper, C. M., Janicki-Deverts, D., & Turner, R. B. 2009. Sleep habits and susceptibility to the common cold. *Archives of Internal Medicine*. Vol. 169(1) : 62–67.
- Coronado, E. G., Ma, A. Martinez, P. Moctezuma, J. V., Garcia, O. P., Diaz, M. M. Tapia, M. P., Pavon, L. Montor, J. M. 2015. The Bidirectional Relationship between Sleep and Immunity against Infections. *Journal of Immunology Research*.
- Crooks, K. E. B. S. 2019. “The Impact of Sleep Deprivation and Stress Reactivity on Interleukin-6”. Faculty of Psychology. Master of Science in Psychology. University of Houston Clear Lake. Norway.

- Curfs, J. H. A. J., Meis, J. F. G. M., & Hoogkamp-Korstanje, J. A. A. 1997. A primer on cytokines: Sources, receptors, effects, and inducers. *Clinical Microbiology Reviews*.
- Dantzer, R. 2009. Cytokine, sickness behavior, and depression. *Immunology and Allergy Clinics of North America*. Vol. 29(2) : 247–264.
- Dedovic, K., Rexroth, M., Wolff, E., Duchesne, A., Scherling, C., Beaudry, T., Pruessner, J. C. 2009. Neural correlates of processing stressful information: An event-related fMRI study. *Brain Research*. Vol. 1293 : 49–60.
- Dietze, S., Lees, K.R., Fink, H., Brosda, J. & Voigt, J.P. 2016. Food deprivation, body weight loss and anxiety-related behavior in rats. *Animals*, 6(1). /pmc/articles/PMC4730121/ 9 March 2021.
- Dimitrov, S., Lange, T., Benedict, C., Nowell, M. A., Jones, S. A., Scheller, J., *et al.* 2006. Sleep Enhances IL-6 Trans-Signaling in Humans. *The FASEB Journal*. Vol. 20 : 599-609.
- Drummond, S. P. A., Palus, M. P., Tapert, S. F. 2006. Effects of Two Nights Sleep Deprivation and Two Nights Recovery Sleep on Response Inhibition. *Journal of Sleep Research*. 15(3):261-265.
- Dyspersyn, G., Sauvet, F., Drogou, C., Ciret, S., Gallopin, T., Chennaoui, M. 2013. Validation of Total Sleep Deprivation Model. *Sleep Medicine*. 14(1): 107-13.
- El-Aziz, E.A.A., & Mostafa, D.G. 2012. Impact of Sleep Deprivation and Sleep Recovery on Reproductive Hormones and Testicular Oxidative Stress in Adult Male Rats. *Al-Azhar Assiut Medical Journal*. 10(3): 160-188.
- Eltoweissy, M. Y., Mohamed, N. A. H., Wahab, W. M. A. 2013. The Effect of Melatonin and/or Complex Vitamin B1, B6, B12 in Modulating Epinephrine-induced Stress in Male Rats. *An International Journal*. 56(3):393-403.
- Erta, M., Quintana, A., & Hidalgo, J. 2012. Interleukin-6, a major cytokine in the central nervous system. *International Journal of Biological Sciences*. Vol. 8(9) : 1254–1266.
- Faust, O., Razaghi, H., Barika, R., Ciaccio, E. J., Acharya, U. R. 2019. A Review of Automated Sleep Stage Scoring Based on Physiological Signals for the New Millennia. *Computer Methods and Programs in Biomedicine Elsevier*. Vol. 176 : 81-91.
- Federer, W. 1963. *Experimental Design Theory and Application*. Oxford: Oxford and Lbh Publish Hincó.
- Fitria, L., & Sarto, M. 2014. Profil Hematologi Tikus (*Rattus norvegicus* Berkenhout, 1769) Galur Wistar Jantan dan Betina Umur 4, 6, dan 8 Minggu. *Jurnal Ilmiah Biologi*. Vol. 2 (2) : 94-100.
- Gao, T., Wang, Z., Dong, Y., Cao, J., Lin, R., Wang, X, *et al.* 2019. Role of Melatonin in Sleep Deprivation-Induced Intestinal Barrier Dysfunction in Mice. *Journal of Principal Research*. 67:1-16.

- Garyglewska, O.J. 2010. Consequences of Sleep Deprivation. *International Journal of Occupational Medicine and Environmental Health*. 23(1): 95-114.
- Gurnida, D.A., & Rosifah, D. 2011. Peran Ghrelin dalam Regulasi Nafsu Makan. *Artikel Ilmiah*. Fakultas Kedokteran Universitas Padjadjaran, Bandung. Pp 17. (Dipublikasikan).
- Hirshkowitz, M., Whiton, K., Albert, S.M., Alessi, C., Bruni, O., DonCarlos, L., & Hillard, P.J.A. 2015. National Sleep Foundation's Sleep Time Duration Recommendations : Methodology And Results Summary. *Sleep Health*. 1(1): 40-43.
- Ibarra-Coronado, E.G., Pantaleón-Martínez, A.M., Velazquez-Moctezuma, J., Prospéro-García, O., Méndez-Díaz, M., Pérez-Tapia, M., *et al.* 2015. The Bidirectional Relationship between Sleep and Immunity against Infections. *Journal of Immunology Research*.
- Jacobus, D. J. 2016. Gangguan Tidur Meningkatkan Risiko Diabetes Melitus. *Cermin Dunia Kedokteran*. 43(2):144-146.
- Jeddi, S., Asl, A.N., Asgari, A., & Ghasemi, A. 2016. The Effect of Sleep Deprivation on Cardiac Function and Tolerance to Ischemia-Reperfusion Injury in Male Rats. *Arquivos Brasileiros de Cardiologia*. 106(1): 41-48
- Keenan, S., & Hirshkowitz, M. (2011). Monitoring and staging human sleep. In M.H. Kryger, T. Roth, & W.C. Dement (Eds.), *Principles and practice of sleep medicine*, 5th edition, (pp 1602-1609). St. Louis: Elsevier Saunders.
- Kerkhof, G.A., Dongen, H. P. A., Drosopoulos, S. 2016. Interindividual Differences in Sleep Response to Shift Work in Novice Police Officers – a prospective Study. *Chronobiology International*. 18(4):671-677.
- Krishnan, V., & Auckley, D. 2011. Sleep Deprivation: Pathophysiology. *Sleep and Safety*. 45(60): 13-5.
- Kushida, A.C. 2009. *Sleep Deprivation: Basic Science, Physiology, and Behavior*. Marcel Dekker, New York. Pp 3-11.
- Laposky, A., Easton, A., Dugovic, C., Walisser, J., Bradfield, C., & Turek, F. 2015. Deletion of the mammalian circadian clock gene BMAL1/Mop3 alters baseline sleep architecture and the response to sleep deprivation. *Journal of SLEEP*. 28:395-409
- Learly, E.B., Watson, K. T., Ancoli, S., Redline, S., Yaffe, K., Ravelo, L. A., *et al.* 2020. Association of Rapid Eye Movement Sleep with Mortality in Middle-aged and Older Adults. *JAMA Neurology*. Vol. 77 (10) : 1241 – 1251.
- Lichtenstein, G. R. 2015. The Importance of Sleep. *The Independent Peer-Reviewed Journal*. 11(12):790.
- Lorenzo, B. H. P. D., Marchioro, L. O., Greco, C. R., Sucheki, D. 2015. Sleep Deprivation Reduces NK Cell Number and Function Mediated by Beta-Adrenergic Signaling. *Psychoneuroendocrinology*. Vol. 57 : 134-143
- Martins, C., Morgan, L., Truby, H. 2010. A Review of the Effects of Exercise on Appetite Regulation: An Obesity Perspective. *International Journal of Obesity*. 32 (7): 1337-47.

- McEwen, B. S., & Gianaros, P. J. 2010. Central role of the brain in stress and adaptation: Links to socioeconomic status, health, and disease. *Annals of the New York Academy of Sciences*. Vol. 1186(1) : 190–222.
- Monico- Neto, M. Giampa, S., Lee, K. S., Melo, C. Souza, H., Dattilo, M., *et al.* Negative Energy Balance Induced by Paradoxical Sleep Deprivation Causes Multicompartmental Changes in Adipose Tissue and Skeletal Muscle. *International Journal of Endocrinology*. <https://doi.org/10.1155/2015/908159>
- Mullington, J.M., Chan, J.L., Dongen, H.P., Szuba, M.P., Samaras, J., Price, N.J., Meier, H.K., Dinges, D.F., Mantzoros, C.S. 2013. Sleep Loss Reduce Diurnal Rhythm Amplitude of Leptin in Healthy Men. *Journal of Neuroendocrinol.* 15(6): 851-4.
- Murni, A. W., Darwin, E., Zubir, N., Nurdin, A. E. 2018. Analyzing Determinant Factors for Pathophysiology of Functional Dyspepsia Based on Plasma Cortisol Levels, IL-6, and IL-6 Expressions and *H. pylori* Activity. *Indonesian Journal Intern Medicine*. 50(1):38-45.
- Nabavizadeh, F., Vahedian, M., Sahraei, H., Adeli, S., & Salimi, E. 2011. Physical and psychological stress have similar effects on gastric acid and pepsin secretions in rat. *Journal of Stress Physiology & Biochemistry*. 7:164-74.
- Nollet, M. Wisden, W., Franks, N. P. 2020. Sleep Deprivation and Stress: a reciprocal relationship. *Interface Focus* 10:20190092.
<http://dx.doi.org/10.1098/rsfs.2019.0092>
- Notoatmodjo, S. 2005. *Metodologi Penelitian Kesehatan*. Jakarta: Penerbit Rineka Cipta.
- Nugroho, P., Lydia, A., Panggabean, M., Susalit, E. 2016. Perubahan Konsentrasi Interleukin 6, C-Reactive Protein, dan Soluble Vascular Cell Adhesion Molecule-1 pada Pasien Hemodialisis dengan Dialiser Proses Ulang. *Jurnal Penyakit Dalam Indonesia*. 3(3):131-137.
- Papanicolaou, D. A., & Vgontzas, A. N. (2000). Interleukin-6: The endocrine cytokine. *The Journal of Clinical Endocrinology & Metabolism*. Vol. 85(3) : 1331–1333.
- Park, E. K., Lee, H. J., Lee, H. M., Kim, J. H., Hwang, J. Koo, J. I., Kim, S. H. 2018. The Anti-Wrinkle Mechanism of Melatonin in UVB Treated HaCat Keratinocytes and Hairless Mice via Inhibition of ROS and Sonic Hedgehog Mediated Inflammatory Proteins. *International Journal of Molecular Sciences*. 19:1-11.
- Pejovic, S., Basta, M., Vgontzas, A. N., Kritikou, I., Michele, L., Schaffer, *et al.* 2013. Effects of Recovery Sleep After One Work Week of Mild Sleep Restriction on Interleukin 6 and Cortisol Secretion and Daytime Sleepiness and Performance. *Am J Physiol Endocrinol Metabolism*. 305(7):890-896.
- Putri, D., Nasrul, E., & Masri, M. 2015. Pengaruh Kurang Tidur terhadap Berat Badan pada Tikus Wistar Jantan. *Jurnal Kesehatan Andalas*. 4(1): 78-82.
- Reza, R. R., Berawi, K., Karisma, N. Budiarto, A. 2019. Fungsi Tidur dalam manajemen Kesehatan. *J Majority*. Vol. 8 (2) : 247-253
- Rias, Y. A. & Sutikno, E. 2017. Hubungan antara Berat Badan dengan Kadar Gula Darah Acak pada Tikus Diabetes Mellitus. *Jurnal Wiyata*. 4(1):72-77.

- Robert Hubrecht & James Kirkwood. 2010. The Laboratory Rat. In *The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals*. Oxford, UK: Wiley-Blackwell: 311–326.
<http://doi.wiley.com/10.1002/9781444318777.ch22> 8 March 2021.
- Rygula, N Abumaria, U Havemann-Reinecke, E Rüther, C Hiemke. 2008. Pharmacological Validation of a Chronic Social Stress Model of Depression in Rats. *PubMed*. 19(3):183-196.
- Sengupta, P. 2011. The Laboratory Rat: Relating its Age with Human's. *International Journal of Preventive Medicine*. 4(6): 624-30.
- Sherwood, L. 2014. *Fisiologi Manusia dari Sel ke Sistem : Kelenjar Endokrin Perifer*. Terjemahan oleh Brahm U. P. 2014. Penerbit Buku Kedokteran EGC, Jakarta. Pp 748-63.
- Simpson, N., & Dinges, D. F. 2007. Sleep and inflammation. *Nutrition reviews*. Vol 3 (65) : page 244-252.
- Siregar, E. M. H. 2017. “Korelasi Kualitas Tidur dengan Kadar Interleukin-6 Serum pada Pasien Hemodialisis Reguler”. Fakultas Kedokteran. Jurusan Spesialis Ilmu Penyakit Dalam. Universitas Sumatera Utara. Medan.
- Slavich, G. M., & Irwin, M. R. (2014). From stress to inflammation and major depressive disorder: A social signal transduction theory of depression. *Psychological Bulletin*. Vol. 140 (3) : 774-815
- Spiegel, K., Knutson, K., Leproult, R., Tasali, E., Cauter, E.V. 2015. Sleep Loss: A Novel Risk Factor for Insulin Resistance and Type 2 Diabetes. *Journal of Applied Physiology*. 99 (5): 2008-19.
- Süer, C., Dolu, N., Artis, A.S., Sahin, L., Yilmaz, A. and Cetin, A., 2011. The effects of long-term sleep deprivation on the long-term potentiation in the dentate gyrus and brain oxidation status in rats. *Neuroscience research*, 70(1), pp.71-77.
- Sukendra, D. M. 2015. Efek Olahraga Ringan pada Fungsi Imunitas terhadap Mikroba Patogen : Infeksi Virus Dengue. *Jurnal Media Ilmu Keolahragaan Indonesia*. 5(2):57-65.
- Sunarti, S. & Helena. 2018. Gangguan Tidur pada Lanjut Usia. *Journal of Islamic Medicine*. 2(1):1-15.
- Song, Z., Bai, J., Dong, L., Ge, H., Cai, X., Wang, G., Liu, P. 2013. The Role of Melatonin as an Antioxidant in Human Lens Epithelial Cells. *Free Radical Research*. 47(8):635-642.
- Tiba, P. A., Oliveira, M. G., Rossi, V. C., Suchecki, D., Tufik, S. 2008. Glucocorticoids are not Responsible for Paradoxical Sleep Deprivation-Induced Memory Impairments. *SLEEP*. Vol. 31(4).
- Tina, A. R., Kurniawan, L. B., Bahrin, U. 2021. Analisis Hubungan Berbagai Indeks Obesitas dengan Kadar Interleukin-6 pada Subjek Obesitas dan Non Obesitas Sentral. *Journal Med Health*. 3(2):104-113.

- Tista, G. N. B. 2011. Pemberian Ekstrak Buah Mengkudu (*Morinda Citrifolia L*) Menurunkan Tekanan Darah Tikus Putih Jantan Galur Wistar (*Rattus norvegicus*) yang Hipertensi. *Tesis*. Program Studi Biomedik. Universitas Udayana, Bali (Dipublikasikan).
- Tsigos, C., Kyrou, I., Kassi, E., & Chrousos, G. P. 2000. *Stress, endocrine physiology and pathophysiology*. *Endotext*. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/25905226>
- Wilkinson, M. & Imran, S. 2019. *Neuroendocrine Regulation of Appetite and Body Weight*. In *Clinical Neuroendocrinology: An Introduction*. Cambridge University press.: Cambridge.
- Young, J. J., Bruno, D., & Pomara, N. (2014). A review of the relationship between proinflammatory cytokines and major depressive disorder. *Journal of Affective Disorders*. Vol. 169 : 15–20.

