

DAFTAR PUSTAKA

- Abbas, A. K., Lichtman, A. H., dan Pillai, S., 2015, *Cellular and Molecular Immunology*, 8th ed, Saunders, Philadelphia,
- Ahmad, S.I., 2016, *Reactive Oxygen Species in Biology and Human Health*, CRC Press, London.
- Amstrong, D., 2009, *Free Radical and Antioxidant Protocols*, 1th ed, Humana Press, New York.
- Amstrong, D., Stratton, R.D., 2016, *Oxidative Stress and Antioxidant Protection*, Wiley-Blackwell, New York.
- Capeyron, C., Juli, B., Eric, P., Jean, M.R., Piere, L.L., Bernard, D., 2002, A Diet cholesterol and deficient in vitamin E induces lipid peroxidation but does not enhance antioxidant enzyme expression in rat liver, *Journal of Nutrition and Biochemical*, 13:296-301.
- Carere, C., Maestriperi, D., 2013, *Animal Personalities: Behavior, Physiology, and Evolution*, University of Chicago Press, Chicago.
- Crochet, S.D., Erard, M., Nube, O., 2013, ROS production in phagocytes: why, when, and where?, *Journal of Leukocyte Biology*, 94: 657-670.
- Cross, S.E., Naylor, I.L., Coleman, R.A. and Teo, T.C., 1995, An Experimental Model to Investigate The Dynamics of Wound Contraction, *Brazilian Journal of Plastic Surgery*, 48: 189-97.
- Denise, G., Maria, L.S., Valentini, J., Paniz, C., Schmitt, G., Garcia, S.C., Pomblum, V.J., Rocha, J.B.T., Farina, M., Importance of the lipid peroxidations biomarkers and methodological aspect for malondialdehyde quantification, *Quimica Nova*, 169-174.
- Depkes, 2008, *Pedoman Pengendalian Tikus*, Dirjen Pengendalian Penyakit dan Penyehatan Lingkungan, Jakarta, p.4.
- Dorsett-Martin, W.A. and Wysocki, A.B., 2008, *Sourcebook of Models for Biomedical Research*, PM Conn Ed. Humana Press Inc, Totowa, NJ. p. 631-637.
- Dreifke, M.B., Jayasuriya, A.A., Jayasuriya, A.C., 2015, Current Wound Healing Procedures and Potential Care, *Journal of Material Science and Engineering*, 48:651-662

- Fukai, U.M., Nakamura, Y., 2008, Reactive Oxygen Species and Angiogenesis: NAPDH Oxidase as Target for Cancer Therapy, *Journal of Cancer Letters*, 266, 37-52.
- Fialkow, L., Wang, Y., Downey, G.P., 2007, Rective Oxygen and Nitrogen Species as Signaling Molecules Regulating Neutrophil Function, *Free Radical Biology & Medicine*, 42:153-164.
- Gordon, S., Pomares, L.M., 2017, Physiology Roles of Macrophages, *European Journal of Physiology*, 469:365-374.
- Ge, L., Yang, M., Yang, N., Yin, X., song, W.G., 2017, Molecular Hydrogen: A Preventive and Therapeutic Medical Gas for Various Disesease, *Journal of Oncotarget*, 8(60): 102653-102673.
- Guo, S. X., Jin, Y. Y., Fang, Q., You, C. G., Wang, X. G., Hu, X. L., dan Han, C. M., 2015, Beneficial Effect of Hydrogen-Rich Saline on Early Burn-Wound Progresion in Rats, *Journal PLoS One*, 10(4): 12-8
- Halliwell, B. dan Gutteridge, J.M.C., 2015, *Free Radicals in Biology and Medicine*, Ed. 5, Oxford University Press, New York.
- Hall, J.E., 2016, *Guyton And Hall Textbook Of Medical Physiology*, 13th ed., Elsevier, Philadelphia
- Han, S.K., 2016, *Innovations and Advances in Wound Healing*, Ed. 2, Springer, London.
- Hong, Y., Chen, S., Zhang, J.M., 2010, Hydrogen as a Selective Antioxidant: a Review of Clinical and Experimental Studies, *Journal of International Medical Research*, 38:1893-1903
- Huang, C. S., Kawamura, T., Toyoda, Y., dan Nakao, A., 2010, Recent Advances in Hydrogen Research as a Therapeutic Medical Gas, *Journal Free Radical Research*, 44(9): 971-82.
- Huang, Y.J., Nan, G.X., 2019, Oxidative Stress-induced Angiogenesis, *Journal of Clinical Neuroscience*, 63;13-6.
- Huether, S.E., McCance, K.L., Brashers, V.L., Rote, N.S., 2015, *Understanding Pathophysiology*, 6th ed., Elsevier, New York.
- Inkinen, 2003, *Connective Tissue Formation in Wound Healing*, Helsinki University Central Hospital, Finland.

- Ichihara, M., Sobue, S., Ito, M., Ito, M., Hirayama, M., Ohno, K., 2015, Beneficial Biological Effect and Underlying Mechanism of Molecular Hydrogen- Comprehensive review of 321 Original Articles, *Journal of Medical Gas Research*, 5:1-21.
- Isibashi, T., Sato, B., Sgibata, S., Sakai, T., Hara, Y., Naritomi, Y., 2014, Therapeutic Efficacy of Infused Molecular Hydrogen in Saline on Rheumatoid Arthritis: a Randomized, Double-Blind, Placebo-Controlled Pilot Study, *Journal International Immunopharmacology* 21:468–473.
- Kehrer, J.P., Tipple, T.E., Robertson, J.D., Smith, C.V., 2015, *Free Radical and Reactive Oxygen Species*, Elsevier, New York.
- Kim, Y.W., West, X.Z., Byzova, T.V., 2013, Inflammation and Oxidative Stress in Angiogenesis and Vascular Disease, *Journal of Molecular Medicine*, 91:323-8.
- Kumar, V., Cotran, R.S., Robbins, S., 2014, *Buku Ajar Patologi*, Vol 1, Ed 7, EGC, Jakarta
- Kram, D. J. dan Keller, K. A., 2001, *Use of Laboratory Animals in Toxicology Studies, Toxicology Testing Handbook*, New York, USA, h. 1-17.
- Krinke, G. J., 2000, *The Handbook of Experimental Animals: The Laboratory Rat*, Academic Press, London.
- Krzyszczuk, P., Schloss, R., Palmer, A., Berthiaume, F., 2018, The Role of Macrophages in Acute and Chronic Wound Healing and Interventions to Promote Pro-wound Healing Phenotypes, *Frontiers of Physiology*, 9: 1-22
- Landen, N.X., Li, D., Stable, M., 2016, Transition from Inflammation to Proliferation: A Critical Step During Wound Healing, *Journal of Cellular and Molecular Life Sciences*, 73: 3861-3885.
- Larjava, H., 2012, *Oral Wound Healing Cell Biology and Clinical Management*, Wiley-Blackwell, New York.
- Lesniewska, D.M.R., Hevelke, A., Skopomski, P., Balan, B., Jozwiak, J., Rokicki, D., Rozewska, E.S., Bialoszewska, A., 2015, *Journal of Pharmacological Report*, 414, 1-10.
- Li, R.Y., 2012, *Free Radical Biomedicine: Principle, Clinical Correlations, and Methodologies*, Betham Science Publisher, Sharjah.
- Li, Q., Kato, S., Matsuoka, D., Tanaka, H., Miwa, N., 2013, Hydrogen water intake via tube-feeding for patients with pressure ulcer and its reconstructive effects on normal human skin cells *in vitro*, *Medical Gas Research*, 3(20):1-20.

- Li, H., Luo, Y., Yang, P., Liu, J., 2018, Hydrogen as A Complementary Therapy Against Ischemic Stroke: A Review of The Evidence, *Journal of the Neurological Sciences*, 22; 20-9.
- Liochev, S.I., 2013, Reactive Oxygen Species and the Free Radical Theory of Aging, *Journal of Free Radical Biology and Medicine*, 60:14.
- McManus, L.M., Mitchell, R.M., 2014, *Pathobiology of Human Disease: A Dynamic Encyclopedia of Disease Mechanisms*, Elsevier, New York.
- Marieb, E.n., Hoehn, K., 2015, *Human Anatomy & Physiology*, Ed.2 , Pearson Education, New York.
- Murray, R.B., Bender, D.A., Botham, K.M., Kennelly, P.J., Rodwell, V.W., Weil, P.A., 2017, *Biokimia Harper*, 29th ed, EGC, Jakarta.
- Ning, K., Liu, W.W., Huang, J.L., Lu, H.T., Sun, X.J., 2019, Effects of hydrogen on polarization of macrophages and microglia in a stroke model, *Medical Gas Research*, 8(4):154-159.
- Ohta, S., 2014, Molecular Hydrogen as a Preventive and Therapeutic Medical Gas: Initiation, Development and Potential of Hydrogen Medicine, *Journal of Pharmacology & Therapeutics*, 144:1–11.
- Paul, W. and Sharma, C. P., 2015, *Advances in Wound Healing Materials : Science and Skin Engineering*, Smither Rapra Technology Ltd, London.
- Prestes, 2012, Wound Healing Using Ionic Silver Dressing and Nanocrystalline Silver Dressing in Rats, *Acta Cirurgica Brasileira*, 27(11): 761-67
- Qiu, P., Liu, Y., Zhang, J., 2019, Recent Advances in Studies of Molecular Hydrogen against Sepsis, *International Journal of Biological Sciences*, 15(6):1261-1275.
- Reinke, J.M., Sorg, H., 2012, Wound Repair and Regeneration, *Journal of European Surgical Research*, 49:35-43.
- Ridwan, E., 2013, Etika Pemanfaatan Hewan Percobaan dalam Penelitian Kesehatan, *J Indon Med Assoc*, 63: 112
- Sachdeva, M., Karan, M., Singh, T., Dhingra, S., 2014, Oxidants and Antioxidants in Complementary and Alternative Medicine: A Review, *Spatula DD*, 4(1), 1-16.
- Sami, D.G., Heiba, H.H., Abdellatif, A., 2019, Wound Healing Models: A Systematic Review of Animal and Non-animal Models, *Journal of Wound Healing*, 24:8-17.

- Sies, H., 2018, One the History of Oxidative Stress: Concept and Some Aspects of Current Development, *Journal of Current Opinion in Toxicology*, 7:122-6.
- Sindhi, V., Gupta, V., Sharma, K., Bhatnagar, S., Kumari, R., Dhaka, N., 2013, Potential Application of Antioxidants: A Review, *Journal of Pharmacy Research*, 7:823-835.
- Singer, A.J. dan Clark, R.A., 1999, Cutaneous Wound Healing, *The New England Journal of Medicine*, 341(3): 738-746.
- Singh, S., Young, A., McNaught, C.E., 2017, The Physiology of Wound Healing, *Journal of Surgery(Oxford)*, 35(9):473-477.
- Suckow, M., Weisbroth, S., Franklin, C., 2006, *The Laboratory Rat*, Ed. 2, Academic Press, New York
- Sun, X., Ohta, S., Nakao, A., 2015, *Hydrogen Molecular Biology and Medicine*, Springer, London.
- Thorne, C.H., Chung, K.C., Gosain, A.K., Gurtner, G.G., Mehrara, B.J., Rubin, J.P., Spear, L.S., 2014, *Grabb dan Smith's Plastic Surgery*, Ed. 7, Lippincott Williams & Wilkins, New York.
- Tian, R., Huoa, Z., Wud, W., Maoe, X., Lua, T., Liu, B., 2016, Hydrogen-rich Water Attenuates brain Damage and Inflammation after Traumatic Brain Injury in Rats, *Journal of Brain Research*, 1631: 1-13.
- Tur, J., Vico, T., Llobersa, J., Zorzano, A., Celada, A., 2017, Macrophages and Mitochondria: A Critical Interplay Between Metabolism, Signaling, and the Functional Activity, *Advances in Immunology*, 133:1-34.
- Turksen, K, 2018, *Wound Healing Stem Cell Repair and Restoration, Basic and Clinical*, Wiley-Blackwell, New York.
- Vannella, K.M., dan Wynn, T.A., 2017, Mechanims of organ injury and repair by macrophages, *Annual Review of Physiology*, 79: 593-617.
- Velnar, T., Bailey, T., Smrkolj, V., 2009, The Wound Healing Process: an Overview of the Cellular and Molecular Mechanisms, *The Journal of International Medical Research*, 37: 1528-42.
- Wahyuni, S., 2012, *Monograf Malondialdehid Prekursor Stress Oksidatif*, Udayana University Press, Denpasar.

- Winarsih, H, 2007, *Antioksidan Alami dan Radikal Bebas: Potensi dan Aplikasi dalam Kesehatan*, Penerbit Kanisius, Jakarta.
- Yang, J., 2018, The Role of Reactive Oxygen Species in Angiogenesis and Preventing Tissue Injury After Brain Ischemia, *Journal of Microvascular Research*, 123;62-7.
- Yang, Y., Zhu, Y., Xi, X., 2018, Anti-inflammatory and Antitumor Action of Hydrogen Via Reactive Oxygen Species, *Journal of Oncology Letters*, 16:2771-6.
- Yoneda, T., Tomofuji, T., Kunitomo, M., Ekuni, D., 2018, Preventive Effects of Drinking Hydrogen-Rich Water on Gingival Oxidative Stress and Alveolar Bone Resorption in Rats Fed a High-Fat Diet, *Nutrient*, 9: 64-72.
- Zhang, J. Y., Liu, C., Zhou, L., Qu, K., Wang, R., Tai, M. H., Lei, W. L., Wu, Q. F., dan Wang, Z. X., 2012, A Review of Hydrogen as a New Medical Therapy, *Hepato-Gastroenterology*, 59: 1026-32
- Zhang, J., Wu, Q., Song, S., Wan, Y., Zhang, R., Tai, M., Liu, C., 2014, Effect of Hydrogen-rich Water on Acute Peritonitis of Rat Models, *Journal of International Immunopharmacology*, 21;94-101.
- Zhang, Y., Tan, S., Xu, J., Wang, T., 2018, Hydrogen Therapy ini Cardiovascular and Metabolic Disease: from bench to bedside, *Cellular Physiology and Biochemistry*, 47:1-10.
- Zhou, J., Chen, Y, Huang, G.Q., Li, J., Wu, G.M., Liu, L., Bai, Y.P., Wang, J., 2012, Hydrogen-rich saline reverse oxidative stress, cognitive impairment, and mortality in rats submitted to sepsis by cecal ligation and puncture, *Journal of Surgical Research*, 390-400.
- Zhou, Y., Guo, M., Zhu, J., Xiao, Q., Zhang, L., 2013, Reactive Oxygen Species in Vascular Formation and Development, *Journal of Oxidative Medicine and Celuler Longevity*, 1-14.
- Zhou, P., Lin, B., Wang, P., Pan, T., 2019, The Healing Effect of Hydrogen-rich Water on Acute Radiation-Induced Skin Injury in Rats, *Journal of Radiation Research*, 60(1): 17-22