

DAFTAR PUSTAKA

- Nyunoya T, et al. *Molecular Processes that Drive Cigarette Smoke-Induced Epithelial Cell Fate of the Lung*. American Journal of Respiratory Cell and Molecular Biology 2014; Volume 50 Number 3
- ² World Health Organization. 2015. *WHO Global Report on Trends in Tobacco Smoking 2000-2025*
- ³ WHO. 2010. *Worldwide burden of disease from exposure to second-hand smoke: a retrospective analysis of data from 192 countries*. The Lancet Article 2010; DOI:10.1016/S0140-6736(10)61388-8
- ⁴ Pusat Data dan Informasi Kementerian Kesehatan RI. *Perilaku Merokok Masyarakat Indonesia Berdasarkan Riskesdas 2007 dan 2013*. Jakarta: Kemenkes RI: 2014
- ⁵ TCSCI (Tobacco Control Support Center Indonesia). *Industri Rokok di Indonesia 2012*. Available from URL: <http://www.tcsc-indonesia.org>. Accessed April 09, 2017
- ⁶ Joan, M.C.M dan Christine A.M. *Isoforms of Vitamin E Differentially Regulate Inflammation*. Endocrine, Metabolic & Immune Disorders - Drug Targets 2010; 10: 348-66
- ⁷ Wintergerst ES, Maggini S, Hornig DH. *Contribution of Selected Vitamins and Trace Elements to Immune Function*. Ann Nutr Metb 2007; 51:301-23
- ⁸ Shah, A.A., Khand, F., Khand, T.U. *Effect of smoking on serum xanthine oxidase, malondialdehida, ascorbic acid and α -tocopherol levels in healthy male subjects*. Pak. J. Med. Sci. 2014; 31: 146-49.
- ⁹ Ernawati F. *Pengaruh Suplementasi Multi Vitamin-Mineral Terhadap Imunitas Humoral, Seluler dan Status Zat Gizi Antioksidan*. IPB Bogor: Disertasi: 2009
- ¹⁰ Gunawan S. *Farmakologi dan Terapi, Edisi 5*. Jakarta: FKUI: 2007. pp 786-7
- ¹¹ Marks D, Marks A, Smith C. *Biokimia Kedokteran Dasar*. Jakarta: ECG: 2000
- ¹² Setiawan B., Suhartono E. *Peroksidasi Lipid dan Penyakit terkait Stres Oksidatif pada Bayi Prematur*. Jurnal Majelis Kedokteran Indonesia 2007; 57: 10-14
- ¹³ Nielsen, et al. *Plasma Malondialdehida as Biomarker for Oxidative Stress: Reference Interval and Effects of Life-Style Factors*. Clinical Chemistry 1997; 43(7): 1209-14

- ¹⁴ Goncalves DM et al. *Activation Neutrophil by Nanoparticles*. The Scientific World Journal 2011; 11: 1877-85
- ¹⁵ Yoon N.B, et al. *Role of the Neutrophil-Lymphocyte Count Ratio in the Differential Diagnosis between Pulmonary Tuberculosis and Bacterial Community-Acquired Pneumonia*. Ann Lab Med 2013; 33: 105-10
- ¹⁶ Tulgar Y.K, et al. *The Effect of Smoking on Neutrophil/Lymphocyte and Platelet/Lymphocyte Ratio and Platelet Indices: A Retrospective Study*. European Review for Medical and Pharmacological Sciences 2016; 20: 3112-8
- ¹⁷ Khabour et al. *Acute Exposure to Waterpipe Tobacco Smoke Induces Changes in the Oxidative and Inflammatory Markers in Mouse Lung*. Inhal Toxicol 2012; 24(10): 667-75
- ¹⁸ Mansour, et al. *Garciniangostana Linn. Pericarp Extract Reduced Malondialdehida (MDA) Level in Cigarette Smoke Exposed Rats*. IRJES 2013; 2: 1-5
- ¹⁹ Daga M. K, et al. *Effects of Exogenous Vitamin E Supplementation on the Levels of Oxidants and Antioxidants in Chronic Obstructive Pulmonary Disease*. J Biosci 2003; 28: 7-11
- ²⁰ Bruno RS, Rainakrishnan R, Montine TJ, Bray TM, Traber MG. *Alpha-Tocopherol disappearance is faster in cigarette smokers and is inversely related to their ascorbic acid status*. American Journal Of Clinical Nutrition 2005; 81: 95-103
- ²¹ Bruno RS, Leonard SW, Atkinson J, Montine TJ, Ramakrishnan R, Bray TM, Traber MG. *Faster plasma vitamin E disappearance in smokers is normalized by vitamin C supplementation*. Free Radic Biol Med 2006; 40: 689-97
- ²² Duk-Hee Lee, et al. *Does Supplemental Vitamin C Increase Cardiovascular Disease Risk In Women with Diabetes?*. Am J Clin Nutr 2004; 80: 1194-200
- ²³ M. Herman, P. Kościelniak. *Analytical Evaluation of the Iron Transfer from Cigarette Tobacco to Human Body*. Nukleonika 2004; 49(Supplement 1): 39-42
- ²⁴ Kohen, R., Nyska, A. *Oxidation of Biological System: Oxidative Stress Phenomen, Antioxidants, Redox Reactions and Methods for Their Quantification*. Toxicology Pathology 2002; 30(6): 620-50
- ²⁵ Nurfitriya, RS. *Efek Antioksidan In Vitro dan Ex Vivo Ekstrak Bawang Putih, Kunyit, Jahe Merah, Mengkudu serta Beberapa Kombinasinya*. Jurnal ITB Bandung 2008; 1: 2-15
- ²⁶ Rodgman, A., Perfetti, T.A. *The Chemical Components of Tobacco and Tobacco Smoke*. USA: CRC Press. Taylor and Francis Group: 2009.

- ²⁷ Valavanidis, A., Vlachogianni, T., Fiotakis, K. *Tobacco Smoke: Involvement of Reactive Oxygen Species and Stable Free Radicals in Mechanisms of Oxidative Damage, Carcinogenesis and Synergistic Effects with Other Respirable Particles*. Int. J. Environ. Res. Public Health 2009; 6: 445-62.
- ²⁸ Setiati, S. *Radikal Bebas, Antioksidan, dan Proses Menua*. Jakarta: Medika no. 6 Tahun XXIX: 2003
- ²⁹ Trummer, H., Habermann, H., Hass, J., Pummer, K. *The Impact of Cigarette Smoking on Human Semen Parameters and Hormone*. Human Repro 2002; 7(6) :1554-59
- ³⁰ J. Lee., V. Taneja., R. Vassalo. *Cigarette Smoking and Inflammation: Cellular and Molecular Mechanisms*. J Dent Res 2012; 91(2): 142-9
- ³¹ Misra, dkk. *Black tea prevents cigarette smoke induced oxidative damage of protein in Guinea pigs* [serial online] 2003. Available from URL: <http://www.jn.nutrition.org/cgi/content/full>. Accessed November 08, 2016
- ³² Mirochnitchenko, dkk. *Superoxide dismutase expression attenuates cigarette smoke or elastase generated emphysema in mice* [serial online] 2004. Available from URL: <http://www.ajrcm.atsjournal.org/cgi/content>. Accessed November 08, 2016
- ³³ Driscoll KE. *Macrophage inflammatory proteins: biology and role in pulmonary inflammation*. Exp Lung Res 1994; 20: 473–90
- ³⁴ Simmons, DH. *Current Pulmonology*. Chicago: Mobsy-Year Book, Inc: 1991. pp: 109-29
- ³⁵ Prince, SA dan Wilson, LM. *Patofisiologi: Konsep Klinis Proses-Proses Penyakit*. Jakarta: Penerbit Buku Kedokteran EGC: 1995. pp: 647-8
- ³⁶ Sudoyo, AW. *Buku Ajar Ilmu Penyakit Dalam edisi keempat*. Jakarta: Pusat Penerbitan Departemen Ilmu Penyakit Dalam FKUI: 2006. pp:041-3
- ³⁷ Klut, et al. *Activation of Neutrophils within Pulmonary Microvessels of Rabbits Exposed to Cigarette Smoke*. Am J Respir Cell Mol Biol 1993; 9: 82-9
- ³⁸ Summers C., Rankin S.M., Condliffe A.M., Singh N., Peters A.M., Chilvers E.R. *Neutrophil Kinetics in Health and Disease*. Trends Immunol 2010; 31(8): 318-24
- ³⁹ H. Mehta, K. Nazzal and R. T. Sadikot. *Cigarette Smoking and Innate Immunity*. Inflamm res 2008; 57:497-503

- ⁴⁰ C. Kroegel, V.B. Antony. *Immunobiology of pleural inflammation: potential implications for pathogenesis, diagnosis and therapy*. Eur Respir J 1997; 10: 2411–18
- ⁴¹ Brice B.A., Hawler M., Spelser R. *Photoelectric Light-Scattering Photometer for Determining High Molecular Weights*. J Opt Soc Am 1975; 40(11): 768-78
- ⁴² Effendi Zukesti. *Peranan Leukosit Sebagai Anti Inflamasi Alergik Dalam Tubuh*. USU Digital Library 2003
- ⁴³ Guyton A.C., Hall J.E. *Buku Ajar Fisiologi Kedokteran* 2006
- ⁴⁴ Siddiqui M., Ristow K., Markovic S., Witzig T., Haberman T., Colgan J., et al. *Absolute Lymphocyte Count Predicts Overall Survival in Follicular Lymphomas*. Br J Haematol 2006; 134(6): 596-601
- ⁴⁵ Danico H., Then Z., Kurniawan W. *Fisiologi dan Biokimia Darah*. Jakarta: WIMI: 2011
- ⁴⁶ Sahin A., Akpinar O., Icen Y., Turkoglu C. *Neutrophil to Lymphocyte Ratio is Associated with the Severity of Coronary Artery Disease in Patients with ST-Segment Elevation Myocardial Infarction*. Angiology 2012; 64(6): 423-9
- ⁴⁷ Gurol G., Ciftci I., Terzi H., Atasoy A., Ozbek A., Koroglu M. *Are There Standardized Cut Off Values for Neutrophil Lymphocyte Ratios in Bacteriemia or Sepsis?*. J Microbiol Biotechnol 2014; 14
- ⁴⁸ Walsh S.R., Cook E.J., Goulder F., Justin T.A., Keeling N.J. *Rasio Neutrofil-Limfosit as a Prognostic Factor in Colorectal Cancer*. J Surg Oncol 2005; 91(3): 181-4
- ⁴⁹ Luo M., Luo P., Tang R., Peng Y., Yu S., Huang W. *Relationship between Rasio Neutrofil-Limfosit and Insulin Resistance in Newly Diagnosed Type 2 Diabetes Mellitus Patients*. BMC Endocr Disord 2015; 15(9): 1-6
- ⁵⁰ Lewis S.M., Bain B.J., Bates I., Dacie and Lewis. *Practical Haematology*. 2006. 11-24 p.
- ⁵¹ Tamhane U.U., Aneja S., Montgomery D., Rogers E.K., Eagle K.A., Gurm H.S. *Association between Admission Rasio Neutrofil-Limfosit and Outcomes in Patients with Acute Coronary Syndrome*. Am J Cardiol 2008; 102(6): 653-7
- ⁵² Anderson, et al. *Passive Smoking by Human Sensitizes Circulating Neutrophil*. Am Rev Respir Dis 1991; 144: 570-4

- ⁵³ vanAntwerpen, et al. *Vitamin E, Pulmonary Functions and Phagocyte-Mediated Oxidative Stress in Smokers and Non Smokers*. *Free Radic Biol Med* 1995; 18: 935-41
- ⁵⁴ Cosio, M. G. *Autoimmunity, T-cells and STAT-4 in the Pathogenesis of Chronic Obstructive Pulmonary Disease*. *Eur Respir J* 2004; 24: 3-5
- ⁵⁵ Zhou, L., Chong, M.M and Littman, D.R. *Plasticity of CD4+ T cell line age differentiation*. *Immunity* 2009; 30: 646-55
- ⁵⁶ Vanaudenaerde, et al. *Innate and Adaptive Interleukin-17 Producing Lymphocytes in Chronic Inflammatory Lung Disorders*. *Am J Respir Crit Care Med* 2011; 183: 977-86
- ⁵⁷ Cosio, M.G, Saetta, M and Agusti, A. *Immunologic Aspects of Chronic Obstructive Pulmonary Disease*. *N Engl J Med* 2009; 360: 2445-54
- ⁵⁸ Rennard, S. I., Togo, S., and Holz, O. *Cigarette smoke inhibits alveolar repair: a mechanism for the development of emphysema*. *Proc. Am.Thorac.Soc* 2006; 3: 703–8
- ⁵⁹ Karin,M. *Nuclearfactor-kappaB in cancer development and progression*. *Nature* 2006; 441: 431–6
- ⁶⁰ Zhao,J., Harper,R., Barchowsky,A., and Di,Y.P. *Identification of multipleMAPK-mediated transcription factors regulated by tobacco smoke in airway epithelial cells*. *Am.J.Physiol. LungCell.Mol.Physiol* 2007; 293: L480–L490
- ⁶¹ Dougan,M., Li,D., Neuberg,D., Mihm, M., Googe,P., Wong,K.K., and Dranoff,G. *A dual role for the immune response in a mouse model of inflammation-associated lung cancer*. *J. Clin.Invest* 2011; 121: 2436–46
- ⁶² Siswonoto S. *Hubungan Kadar Malondialdehida Plasma dengan Keluaran Klinis Stroke Iskemik Akut*. Tesis. Universitas Diponegoro: 2008
- ⁶³ Ayala Antonio., Munoz M.F., Arguelles Sandro. *Lipid Peroxidation: Production, Metabolism and Signaling Mechanisms of Malondialdehyde and 4-Hydroxy-2-Nonenal*. *Oxidative Medicine and Cellular Longevity* 2014: 1-31
- ⁶⁴ Kim S. E, et al. *Simvastatin inhibits induction of matrix metalloproteinase-9 in rat alveolar macrophages exposed to cigarette smoke extract*. *Exp Mol Med* 2009; 41: 277

- ⁶⁵ Ayala A, et al. *Lipid peroxidation: production, metabolism and signaling mechanisms of malondialdehyde and 4-hydroxy-2-nonenal*. *Oxid Med cell longev* 2014
- ⁶⁶ Lee I. T., Yang C. M. *Role of NADPH oxidase/ROS in pro-inflammatory mediators-induced airway and pulmonary diseases*. *Biochem. Pharmacol* 2012; 84: 581-90
- ⁶⁷ Yin H, et al. *Free radical lipid peroxidation: mechanisms and analysis*. *Chem. Rev* 2011; 111: 5944-72
- ⁶⁸ Ho E, et al. *Biological markers of oxidative stress: applications to cardiovascular research and practice*. *Redox Biol* 2013; 1: 483-91
- ⁶⁹ Waji RA, Sugrani A. *Flavonoid*. Makassar: Unhas: 2009
- ⁷⁰ Purboyo A. *Efek Antioksidan Ekstrak Etanol Daun Jambu Biji pada kelinci yang dibebani glukosa*. Tesis. Universitas Sebelas Maret Surakarta: 2009
- ⁷¹ Ernawati Fitrah. *Pengaruh Suplementasi Multi Vitamin-Mineral Terhadap Imunitas Humoral, Seluler dan Status Zat Gizi Antioksidan*. Disertasi. Institut Pertanian Bogor: 2009
- ⁷² Calder PC, Field C, Gill HS. *Nutrition and Immune Function*. London: 2002
- ⁷³ Hariyatmi. *Kemampuan vitamin E sebagai antioksidan terhadap radikal bebas pada lanjut usia*. *Jurnal MIPA* 2004; 141: 52-60
- ⁷⁴ Almaster S. *Prinsip Dasar Ilmu Gizi*. Jakarta: Gramedia Pustaka Utama: 2004. pp 173:9
- ⁷⁵ Murray RK, Granner DK, Rodwell VW. *Biokimia Harper Edisi.Ke-27*, Jakarta: EGC: 2006. pp 48-9
- ⁷⁶ Rizvi Saliha et al. *The Role of Vitamin E in Human Health and Some Diseases*. *SQU Medical Journal* 2014; Vol 14 Issue 2
- ⁷⁷ Raut AM, et al. *A study of oxidative stress, thiol proteins and role of vitamin E supplementation in chronic obstructive pulmonary disease (COPD)*. *Al Ameen J Med Sc i* 2013; 6(2) :134-7
- ⁷⁸ Valencia HA, et al. *Vitamin E Isoforms as Modulators of Lung Inflammation*. *Nutrients ISSN* 2013; 2072-6643; 4347-63
- ⁷⁹ Evans. W.J. *Vitamin E, Vitamin C, Exercise*. *Am J Clin Nutr* 2000; 72: 647S-52S

- ⁸⁰ Erike A., dan Areis. P.S. *Pemberian Jus Anggur pada Tikus Setelah Injeksi Epinefrin*. Biomedis 2004 1(2) : 11-23
- ⁸¹ Schuler. P. *Natural Antioxidants Exploited Commercially*. Food Antioxidants 1990. pp 113-27
- ⁸² Permana. H., Arifin. A.Y., Kariadi. S.H. *Sebuah Tinjauan Antistres Oksidasi dan Hubungannya dengan Gangguan Metabolik*. PERKENI 2007. 9: 1-16
- ⁸³ Rosmiati H, Wardhini S. *Vitamin dan Mineral dalam Farmakologi dan Terapi Edisi 4*. Bagian Farmakologi Fakultas Kedokteran Universitas Indonesia: 1995
- ⁸⁴ Tjay TH, Rahardja K. *Obat-obat penting*. Jakarta: Elex Media Komputindo: 2005
- ⁸⁵ Carr and Frei. *Toward A New Recommended Dietary Allowance for Vitamin C Based on Antioxidant and Health Effects in Humans*. Am J Clin Nutr 1999; 69: 086–107
- ⁸⁶ Chatterjee et al. *Biological Synthesis of L-Ascorbic Acid in Animal Tissue: Conversion of D-Glucuronolactone and L-Gulonolactone into L-Ascorbic Acid*. Biochem J 1960; 76: 279-92
- ⁸⁷ James, MM. *Vitamin C Transport and Its Role in the Central Nervous System*. Subcell Biochem. 2012 ; 56: 85–103
- ⁸⁸ Traber and Stevens. *Vitamins C and E: Beneficial effects from a mechanistic perspective*. Free Radic Biol Med September 1 2011; 51(5): 1000–13
- ⁸⁹ Beyer. *The Role of Ascorbate in Antioxidant Protection of Biomembranes: Interaction with Vitamin E and Coenzyme Q*. Journal of Bioenergetics and Biomembranes 1994; Vol. 26 No. 4
- ⁹⁰ Zwer. H.J., dan Poole. R.C. *Targeting Diabetes*. International Food Ingredients 2002. pp. 5
- ⁹¹ Roth Klaus and Streller Sabine. *Vitamin C Deficiency Part 3* [serial online] 2014. Available from URL: http://www.chemistryviews.org/details/ezine/5808971/vitamin_c_deficiency_part_3.html. Accessed April 24, 2017
- ⁹² Notoatmojo, Soekidjo. *Metodologi Penelitian Kesehatan*. Jakarta: Penerbit Rineka Cipta: 2006
- ⁹³ Federer, W.T. *Procedures and Designs Useful for Screening Material in Selection and Allocation with a Bibliography*. Biometrics 1963; 553-87

- ⁹⁴ Zhang J., Liu Y., Shi J., Larson DF., Watson RR. *Side-stream cigarette smoke induces dose-response in systemic inflammatory cytokine production and oxidative stress*. *Exp Biol Med* 2002; 227: 823–9
- ⁹⁵ Churg A., Dai J., Tai H., Xie C., Wright JL. *Tumor necrosis factor- α is central to acute cigarette smoke induced inflammation and connective tissue breakdown*. *Am J Respir Crit Care Med* 2002; 166: 849–54
- ⁹⁶ Muhammad, I. *Efek Antioksidan Vitamin C terhadap Tikus (Rattus novergicus L) Jantan Akibat Pemaparan Asap Rokok*. Tesis. IPB Bogor: 2009
- ⁹⁷ Parasuraman, S., Raveendran, R., Kesavan, R. *Blood Sample Collection in Small Laboratory Animals*. *J Pharmacol Pharmacother* 2010; 1: 87-93
- ⁹⁸ Chapple et al. *Ascorbate and α -tocopherol Differentially Modulate Reactive Oxygen Species Generation by Neutrophils in Response to Fc γ R and TLR agonists*. *Innate Immunity* 2012; 19: 152-9
- ⁹⁹ Chatterjee M., Saluja R., Kumar V, et al. *Ascorbate Sustains Neutrophil NOS Expression, Catalysis and Oxidative Burst*. *Free Radic Biol Med* 2008; 45: 1084-93
- ¹⁰⁰ Sharma P., Raghavan SA., Saini R., Dikshit M. *Ascorbate-mediated Enhancement of Reactive Oxygen Species Generation from Polymorphonuclear Leukocytes: Modulatory Effect of Nitric Oxide*. *J Leukoc Biol* 2004; 75: 1070-8
- ¹⁰¹ Purwanta Eka. *Perbedaan Kadar Inducible Nitric Oxide Synthase Cairan Sulkus Gingiva antara Penderita Gingivitis Sedang dan Berat Pasca Pemberian Obat Kumur Povidone Iodine 1%*. Tesis. UGM Yogyakarta: 2016
- ¹⁰² Huang Han-Yao et al. *Effect of Vitamin C and Vitamin E on in vivo lipid peroxidation: Results of A Randomized Controlled Trial*. *Am J Clin Nutr* 2002; 76: 549-55
- ¹⁰³ Jaggi Shikha and Yadav, AS. *Increased Serum Malondialdehyde Levels Among Cigarette Smokers*. *The Pharma Innovation Journal* 2015; 4: 94-6
- ¹⁰⁴ Bisby RH., Parker AW. *Reaction of Ascorbate with The Alphas-tocopheroxyl Radical in Micellar and Bilayer Membrane Systems*. *Arch Biochem Biophys* 1995; 317: 170-8