

DAFTAR PUSTAKA

- AHA (American Heart Association), 2019, Heart Disease and Stroke Statistics 2019 At a Glance, <https://www.heart.org/en/about-us/heart-and-stroke-association-statistics>, 4 Maret 2019.
- Ahmed, S., Gul, S., Gul, H., & Bangash, M.H., 2013, Anti-inflammatory and antiplatelet activities of *Avena sativa* are mediated through the inhibition of cyclooxygenase and lipoxygenase enzymes, *International Journal of Endorsing Health Science Research*, **1**(2), 62–65.
- Arief, Nugroho, 2020, Studi In Silico Target Fishing Senyawa 2-Geranil-2',3,3,4', tetrahidroksi dihidrokalkon dari Daun Sukun (*Artocarpus altilis* (Parkinson) Fosberg) sebagai Agen Antiplatelet, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta
- Arnoczky, S.P., Delos, D., & Rodeo, S.A., 2011, What is platelet-rich plasma?, *Operative Techniques in Sports Medicine*, **19**(3):142-148.
- Asmis, L., Tanner, F.C., Sudano, I., Luscher, T.F., & Camici, G.G., 2009, DMSO inhibits human platelet activation through cyclooxygenase-1 inhibition: A novel agent for drug eluting stents, *Biochemical and Biophysical Research Communications*, **391**(4):1629–1633.
- Awtry, E.H. dan Loscalzo, J., 2000, Aspirin, *Circulation*, **101**(10): 1206–1218
- Badan Penelitian dan Pengembangan Kesehatan, 1997, *Inventaris Tanaman Obat Indonesia (II)*, Departemen Kesehatan Republik Indonesia, Jakarta.
- Badimon, L., Teresa P., Gemma V., 2012, Atherosclerosis, platelets and thrombosis in acute ischaemic heart disease, *European Heart Journal: Acute Cardiovascular Care* **1**(1):60-74
- Bennett NT, Schultz, GS., 1993, Growth factors and wound healing: biochemical properties of growth factors and their receptors, *The American Journal of Surgery*, **165**(6):728-737.
- Botta, B., Vitali, A., Menendez, P., Misiti, D., dan Delle Monache, G., 2005, Prenylated flavonoids: pharmacology and biotechnology, *Current Medicinal Chemistry*, **12**(6): 717-739
- Braverman, E.R., & Braverman, D., 2004, *Penyakit Jantung dan Penyembuhannya secara Alami*, diterjemahkan oleh Annisa Rahmalia, 3-8, PT Bhuana Ilmu Populer, Jakarta.

- Cattaneo, M., Hayward, C.P.M., Moffat, K., Pugliano, M.T., Liu, Y., dan Michelson, A.D., 2009, Results of a Worldwide Survey on the Assessment of Platelet Function by Light. *Journal of Thrombosis and Haemostasis*, **7**(6):1029.
- Cattaneo, M., Cerletti, C., Harrison, P., Hayward, C.P.M., Kenny, D., Nugent, D., Nurden, P., Rao, A.K., Schaimer, A.K., Watson, S.P., Lussana, F., Pugliano, M.T., and Michelson, A.D., 2013, Recommendations for the standardization of light transmission aggregometry: a consensus of the working party from the platelet physiology subcommittee of SSC/ISTH. *Journal of Thrombosis and Haemostasis*, **11**: 1183–1189
- Chen, X., Mukwaya, E., Wong, M.-S., dan Zhang, Y., 2014. A systematic review on biological activities of prenylated flavonoids. *Pharmaceutical Biology*, **52**(5): 655-660.
- Corwin, E.J., 2000, *Handbook of Pathophysiology*, Edisi 2, 365-366, Lippincott Williams & Wilkins, New York.
- Derry, S., 2000, Risk of gastrointestinal haemorrhage with long term use of aspirin: meta-analysis, *British Medical Journal*, **321** (7270), 1183–1187.
- DeWitt, D.L., El-Harith, E.A., Kraemer, S.A., Andrews, M.J., Yao, E.F., Armstrong, R.L., *et al.*, 1990, The aspirin and heme-binding sites of ovine and murine prostaglandin endoperoxide synthases, *The Journal of Biological Chemistry*, **265**(9): 5192-5198.
- Dewoto, H. R., 2011, *Farmakologi dan Terapi : Antikoagulan, Antitrombotik, Trombolitik dan Hemostatik*. Edisi 5. Badan Penerbitan FKUI, Jakarta.
- Durachim, Adan dan Dani Mahmud, 2018, *Hemostasis*, Kementerian Kesehatan Republik Indonesia, Jakarta.
- Fagan, S.C., dan Hess, D.C., 2008, Stroke, dalam : Dipiro, J.T., Talbert, R.L., Yee, G.C., Matzke, G.R., Wells, B.G., Posey, L.M. (Eds.), *Pharmacotherapy A Pathophysiologic Approach*, 379-380, The McGraw Companies, United State of America.
- Franchi, F. dan Angiolillo, D.J., 2015. Novel antiplatelet agents in acute coronary syndrome. *Nature Reviews Cardiology*, **12**(1): 30–47.
- Gawaz, M., 2001. *Blood Platelets: Physiology, Pathophysiology, Receptors, Antiplatelet Drugs, Coronary Heart Disease, Stroke, Peripheral Arterial Disease*. Stuttgart Thieme, New York.

- Harrison, P., Mackie, I., Mumford, A., Briggs, C., Liesner, R., Winter, R., & Machin, S., 2013, Guidelines for the laboratory investigation of heritable disorders of platelet function, *British Society for Haematology*, **155**(1):1–41.
- Hatem, T., & Rashika E., 2017, Arachidonic acid: Physiological roles and potential health benefits – A review, *Journal of Advanced Research* **11**: 33–41
- Hayward, C.P.M. & Moffat, K.A., 2013, Platelet Aggregation. dalam Alan Michelson (Ed), *Platelets 3rd Ed.*, 559–580, Academic Press, United States.
- Huie, C.W., 2002, A review modern sample-preparation techniques for the extraction and analysis of Medical Plants. cit. Sikarwar *et al.*, 2014, A review on *Artocarpus altilis* (Parkinson) Fosberg (Breadfruit), *Journal of Applied pharmaceutical Science*, **4**(08): 091-097.
- Hung J., Lam J.Y., Lacoste L., Letchacovski G., 1995, Cigarette smoking acutely increases platelet thrombus formation in patients with coronary artery disease taking aspirin. *Circulation*. **92**(9):2432-2436
- Husni, M.F., 2015, Uji Aktivitas Antiplatelet Ekstrak Etanolik Buah Kemukus (*Piper cubeba* L.f.) pada Platelet Terinduksi Epinefrin, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada.
- Imelda, Jovita, 2018, Aktivitas Antiplatelet Isolat 2-Geranil-2',3,4,4'tetrahidroksi dihidrokalkon dari Daun Sukun (*Artocarpus altilis* (Park.) Fosberg) pada Platelet yang Diinduksi Trombin, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada.
- ITIS (Integrated taxonomic information system), 2018, *Artocarpus altilis* (Parkinson) Fosberg, H, <https://www.itis.gov>, 31 Desember 2018
- Jagtap, U.B., & Bapat, V.A., 2010, *Artocarpus* : A review of its traditional uses, phytochemistry and pharmacology, *Journal of Ethnopharmacology*, **129** (2), 142–166.
- Jarvis, G.E., 2004. Platelet aggregation: turbidimetric measurements. *Methods in Molecular Biology*, **272**: 65–76.
- Jayasinghe, L., B. A. I. S. Balasooriya, W. C. Padmini, N. Hara, and Y. Fujimoto, 2004, Geranyl chalcone Derivatives with Antifungal and Radical Scavenging Properties from The Leaves of *Artocarpus nobilis*, *Phytochem*, **65**(6):1287- 1290.

- Ji, X., & Hou, M., 2011, Novel agents for anti-platelet therapy, *Journal of Hematology & Oncology*, **4**(1): 44.
- Kemenkes RI, 2014, *Infodatin: Situasi kesehatan jantung*, Pusat Data dan Informasi Kementerian Kesehatan RI, 1–8.
- Ko Horng-Huey, Hsin-Kaw Hsieh, Cheng-Tsung Liu, Hsien-Chen Lin, Che-Ming Teng and Chun-Nan Lin, 2004, Structure–activity relationship studies on chalcone derivatives: potent inhibition of platelet aggregation, *Journal of Pharmacy and Pharmacology*, **56**: 1333–1337.
- Koshihara, Y., Y. Fujimoto, and H. Inoue, 1988, A New 5-Lipoxygenase Selective Inhibitor Derived from *Artocarpus communis* Strongly Inhibits Arachidonic Acid-induced Ear Edema, *Biochem Pharmacol.*, **37**:11, 2161-2165.
- Koupenova, Milka, Beate, E. K., Heather A. C., Jane E. F., 2016, Thrombosis and platelets: an update, *European Heart Journal*, **38**, 785–791.
- Kuzuyama, T., Noel, J.P., dan Richard, S.B., 2005. Structural basis for the promiscuous biosynthetic prenylation of aromatic natural products. *Nature*, **435**: 983-987.
- Lindholm, L.H., Mendhis, S., 2007. Prevention of cardiovascular in developing countries. *The Lancet*, **370**(9589): 720-722.
- Linnemann, B., Schwonberg, J., Mani, H., Prochnow, S., & Lindhoff, E., 2008, Standardization of light transmittance aggregometry for monitoring antiplatelet therapy: An adjustment for platelet count is not necessary, *Journal of Thrombosis and Haemostasis*, **6** (4), 677–683.
- Mai, N.T.T., Hai, N.X., Phu, D.H., Trong, P.N.H., dan Nhan, N.T., 2012. Three new geranyl aurones from the leaves of *Artocarpus altilis*. *Phytochemistry Letters*, **5**: 647-650.
- Magnette, A., Chatelain, B. Chatelain, Ten C. H., Mullier, F., 2016, Pre-analytical issues in the haemostasis laboratory: guidance for the clinical laboratories, *Thrombosis Journal*, **14**(49): 1-14
- Martini, F.H., 1998, *Fundamental of Anatomy and Physiology*, Edisi 4, Prentice Hall International Inc., New Jersey USA.
- McAdam, B.F., Catella-Lawson, F., Mardini, I.A., Kapoor, S., Lawson, J.A. & FitzGerald, G.A., 1999, Systemic biosynthesis of prostacyclin by cyclooxygenase (COX)-2: the human pharmacology of a selective

inhibitor of COX-2., *Proceedings of the National Academy of Sciences of the United States of America*, **96** (1): 272–277.

McKenzie S. B., Williams J. L., 2010, *Clinical Laboratory Hematology*, 2nd ed., Pearson, Boston.

Mozef, T., Soemardji, A.A., Sukandar, E.Y., dan Rachmawati, H., 2011. Potency of Flavonoid Isolatd from *Artocarpus altilis* (Parkinson) Fosberg in Inhibition of Platelet Aggregation in Hyperaggregative Subjects. *Medicinal Plant- International Journal of Phytomedicines and Related Industries*, **3**: 307.

Mutschler, E., 1986, *Dinamika Obat*, Edisi 5, Diterjemahkan oleh Mathilda B.W. dan Anna S. R., 397-401, ITB Press, Bandung.

National Center for Biotechnology Information, 2018, Aspirin, <https://pubchem.ncbi.nlm.nih.gov/compound/2244> (diakses 16 Desember 2018).

Paniccia, R., Antonucci, E., Maggini, N., Romano, E., Gori, A.M., Marucci, R., Prisco, D., & Abbate, R., 2009, Assessment of platelet function on whole blood by multiple electrode aggregometry in high-risk patients with coronary artery disease receiving antiplatelet therapy, *American Journal of Clinical Pathology*, **131** (6): 834–842.

Patil, A. D., A. J. Freyer, L. Killmer, P. Offen, P. B.Taylor, B. J. Votta, and R. K. Johnson, 2002, A New Dimeric Dihydrochalcone and A New Prenylated Flavone from The Bud Covers of *Artocarpus altilis*: Potent Inhibitors of Cathepsin K, *Journal of Natural Products*, **65**:4: 624-627.

Patrono, C., 2013, Aspirin. dalam Michelson, A. D., *Platelets*, Edisi III, 1099–1115, Academic Press, Cambridge.

Pertiwi, Krisna Kharisma, 2017, Isolasi dan Identifikasi Senyawa Utama dari Daun Sukun dan Uji Aktivitas sebagai Antiplatelet, *Tesis*, Program Pascasarjana, Universitas Gadjah Mada.

Pernille E. B., Ivalu K. S., Emil W., 2018, Personality and Cardiovascular Disease dalam Johansen, C. (Ed.), 2019, *Personality and Disease Scientific Proof vs. Wishful Thinking*, 1st Ed., 49-67, Academic Press, Amsterdam.

Philip G. de Groot, Rolf T.U., Mark R., 2012, *Antiplatelet Agents - Handbook of Experimental Pharmacology*, 210, Springer, Verlag, Berlin Heidelberg.

- Pradhan, C. dan Mohanty, M., 2014. Phytoconstituent Analysis and Comparative Bioefficacy Assessment of Breadfruit Leaf and Fruit Extracts for Antipathogenic Potentiality. *American Journal of Phytomedicine and Clinical Therapeutics*, **2**: 77-87.
- Ragone, D., 1997, *Breadfruit (Artocarpus altilis (Parkinson) Fosberg) promoting the conservation and use of underutilized and neglected crops*, International Plant Genetic Resources Institute, Rome, Italy.
- Rand, M.L., Murray, R.K., 2006, *Biokimia Harper*, Diterjemahkan oleh Pendit Brahm, Edisi 27, EGC Medical Publisher, Jakarta.
- Roth, G.J., Majerus, P.W., 1975, The mechanism of the effect of aspirin on human platelets I acetylation of a particulate fraction protein, *Journal of Clinical Investigation*, **56**: 624-632.
- Ruggeri, Z.M., Orje, J.N., Habermann, R., Federici, A.B., dan Reininger, A.J., 2006, Activation-independent platelet adhesion and aggregation under elevated shear stress. *Blood*, **108**: 1903-1910.
- Sambu, N., Radhakrishnan, A., Englyst, N., Weir, N., dan Curzen, N., 2013. Aspirin Resistance in Ischemic Stroke: Insight Using Short Thrombelastography. *Journal of Stroke and Cerebrovascular Diseases*, **22**: 1412-1419.
- Schachter, M., 2005, Aspirin in CVD prevention, *National Institute for Health Research*, **2**: 202-203
- Serhan, C.N. dan Oliw, E. 2001. Unorthodox routes to prostanoid formation: new twists in cyclooxygenase-initiated pathways. Dalam Perspective Series: Prostaglandins and Their Precursors. *The Journal of Clinical Investigation*. **107**(12):1481-1489.
- Setyawati, M. D., 2016, Aktivitas Antiplatelet Ekstrak Etanolik Daun Sukun (*Artocarpus altilis* (Park.) Fosberg) pada Platelet yang Diinduksi Epinefrin, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada Yogyakarta.
- Sharathkumar, A.A., & Shapiro, A., 2008, *Platelet Function Disorders*, 2nd edition, 1–28, World Federation of Hemophilia, Canada.
- Shimizu, K., R. Kondo, K. Sakai, S. Buabarn, and U. Dilokkunanant, 2000, A Geranylated Chalcone with 5 α -Reductase Inhibitory Properties from *Artocarpus incisus*, *Phytochem.*, **54**(8):737-739.

- Shiau, Y.-F., HU, C.-J. & Chiueh, C. C., 2012, Preventive Effectiveness of Aspirin on Recurrent Stroke. *Journal of Experimental & Clinical Medicine*, **4**: 203-208.
- Sikarwar, M.S, Hui, B.J., Subramaniam, K., Valeisamy, B.D., Yean, L.K., & Balaji, K., 2014, A review on *Artocarpus altilis* (Parkinson) Fosberg (breadfruit), *Journal of Applied Pharmaceutical Science*, **4** (8): 91–97.
- Silver, M.J., Smith, J.B., Ingberman, C. & Kocsis, J.J., 1973, Arachidonic acidinduced human platelet aggregation and prostaglandin formation, *Prostaglandins*, **4** (6):, 863–875.
- Smith, W.L. dan Langenbach, R. 2001. Why there are two cyclooxygenase isozymes. Dalam Perspective Series: Prostaglandins and Precursors. *The Journal of Clinical Investigation*. **107**(12):1491-1495.
- Sutherland, M. 2002. *Role of Phospholipid Hydroperoxide Glutathione Peroxidase in Hepoxilin A3 Biosynthesis in Human Platelets and Biological Actions of Hepoxilin A3 on Human Neutrophils*, Freien Universitat, Berlin.
- Susiani, E. F., 2014, Potensi Ekstrak Etanolik Daun Sukun (*Artocarpus altilis* (Parkinson) Fosberg) sebagai Anti Trombosis dan Anti Agregasi Platelet pada Platelet Yang Diinduksi Asam Arakhidonat, *Tesis*, Program Pascasarjana, Universitas Gadjah Mada.
- Syah, Y. M., Sjamsul A. A., Eri B., Euis H. H., Lia D. J., Jalifah L., 2006, Dua Flavonoid Tergeranilasi dari Daun Sukun (*Artocarpus altilis*), *Jurnal Matematika dan Sains*, **11**(3):100-103.
- Tarigan, T. I. L., 2016, Aktivitas Antiplatelet Ekstrak Etanolik Daun Sukun (*Artocarpus altilis* (Park.) Fosberg) pada Platelet yang Diinduksi Ristocetin, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada Yogyakarta.
- Topçuoğlu, M.A., Arsava, E.M., dan Ay, H., 2011. Antiplatelet resistance in stroke. *Expert Review of Neurotherapeutics*, **11**: 251–263.
- Tricoci, P. & Harrington, R., 2007, Antiplatelet Therapies in Cardiology dalam Gresele, P. *et al.*, *Platelets in Hematologic and Cardiovascular Disorders*, Cambridge University Press, Durham.
- Varani K., Francesco P, Stefania M., Ennio O., Luiz B., Pier A. B., 1999, Caffeine Alters A2A Adenosine Receptors and Their Function in Human Platelets, *Circulation*, **99**:2499-250

Weng, J.R., Chan, S.C., Lu, Y.H., Lin, H.C., Ko, H.H., & Lin, C.N., 2006, Antiplatelet prenylflavonoids from *Artocarpus communis*, *Phytochemistry*, **67**: 824-829.

Zhou, L., & Schmaier, A., 2005, Platelet aggregation testing in platelet-rich plasma, *American Journal of Clinical Pathology*, **123**(2): 172–183.