

## DAFTAR PUSTAKA

- Afrianti, R., Yenti, R., Monica, H., 2014, Pengamatan serabut kolagen pada proses penyembuhan luka dalam sediaan krim ekstrak etanol daun bandotan (*Ageratum conyzoides* L.), *Perkembangan Terkini Sains Farmasi dan Klinik IV*, 39: 40.
- Agrawal, A.D., 2011, Pharmacological Activities of Flavonoids : a Review, *IJPSN*, 4(2): 1394-1398.
- Alexandru, I., 2011, Experimental use of animal in research spa-Illiuta Alexandru. *Balneo Research Journal*, Vol. 2, Nr. 1: 65-69.
- Andreasen, J.O., Andreasen, F.M., dan Andresson, L., 2007, *Textbook and Color Atlas of traumatic injuries to the teeth*, 4<sup>th</sup> ed, Blackwell. Munksgaard, Denmark, hal.1-43.
- Anonim, 2012, *Structure of collagen and wound healing*, <http://www.woundcare.org/newsvol2n3/ed2.htm>. 14/10/15.
- Alif, S., 2008, Pengaruh Iskemia Terhadap Peningkatan Kolagen Pada Korpus Kavernosum, *JURI*, 15(1): 11-14.
- Ariyanti, R.D., 2014, Pengaruh Propolis Terhadap Jumlah Fibroblas pada Luka Sayat , *Tesis*, Fakultas Kedokteran UNISSULA, Semarang.
- Asdar, 2001, Pengaruh Propolis Terhadap Kolagenisasi pada Proses Penyembuhan Luka Subkutan Punggung Mencit yang diinduksi Bakteri *Actinobacillus Actinomycetemcomitans*, *Tesis*, Fakultas Kedokteran Gigi UGM, Yogyakarta.
- Aukhil, I., 2000, Biology of Wound Healing, *Periodontology*, 22:127-152.
- Bachmann, M.F dan Oxenius, A., 2007, Interleukin 2 : from immunostimulation to immunoregulation and back again, *EMBO reports*, Vol. 8(12): 1142-1148
- Bankova, V., DeCastro, S.L., and Marucci, M.C., 2000, Propolis : Recent Advands in Chemistry and Plant Origin, *Apidologie*, 31: 3-15.
- Bankova, V., 2009, Chemical diversity of propolis makes it valueable source of new biologically active compounds, *Journal of ApiProduct and ApiMedical Science*, 1(2): 23-28.

- Bareil, R.P., Gauvan, R., dan Berthod, F., 2010, Collagen-Based Biomaterials for Tissue Engineering Applications, *Materials*, 3(3): 1863-1887.
- Barnett, S., and Anthony., 2002, *The Story of Rats: Their Impact on Us and Our Impact on Them*. Crows Nest NSW: Allen & Unwin.
- Baumann, L., dan Saghari, S., 2009, Basic Science of the Epidermis. In: Baumann, L., Saghari, S., Weisberg, E., editors. *Cosmetic Dermatology Principles And Practice*. Second Edition. USA: The McGraw-Hill Companies, hal. 3-7.
- Beanes, S.R., Dang, C., Soo, C., dan Ting, K., 2003, *Expert Review in Molecular Medicine*, Cambridge University Press, hal. 51.
- Brunicardi, C.F., 2010, *Principles of Surgery*, 10<sup>th</sup> ed. New York: Graw-Hill, hal. 241-253.
- Budiardja, A.S., dan Rahmat, M., 2010, *Trauma Oral dan Maksilofasial*, EGC, Jakarta, hal. 17-18.
- Carere, C., dan Maestriperi, D., 2013, *Animal Personalities: Behavior, Physiology, and Evolution*, University of Chicago Press, hal.96-123
- Cohen, I.K., Diegelman, R.F., Yager, D.R., Wornum, I.L., Graham, M., dan Crosland Mc, 1999, Wound care and wound healing. dalam : Schwatz SI, Spencer S, Fisher. *Principles of Surgery*, 7<sup>th</sup> ed. New york: McGraw-Hill, hal. 263-253.
- Cotran, R.S., Kumar, V., and Collins, T., 1999, *Pathology basis of disease*, 6<sup>th</sup> WB Saunders Co, Philadelphia, hal. 21-201.
- De Castro, S.L., 2001, Propolis: biological and pharmacological activities. Therapeutic uses of this bee product, *ARBS Ann Rev Biomed Sci*, 3:49-83.
- Depkes, 2008, *Pedoman Pengendalian Tikus, Dirjen Pengendalian Penyakit dan Penyehatan Lingkungan*, Jakarta, hal. 4.
- Diegelmann, R., dan Evans, M.C., 2004, Wound Healig: An Overview of Acute, Fibrotic and Delayed Healing, *Frontiers in Bioscenci*, 9:283-289.
- Deswal, H., Singh, Y., Grover, H.S., Bhardwaj, A., dan Verma, S., 2016, Healing effect of propolis in medicine and dentistry : a review, *Innov J Ayurvedic Sci*, 4(1): 1-4.

- Dorsett-Martin, W.A., 2004, Rat models of skin wound healing; A review. *Wound Repair and Regeneration*, 12(6): 591-1, hal. 513-599.
- Dorsett-Martin, W.A dan Wysocki, A.B., 2008, *Sourcebook of Models for Biomedical Research*, PM Conn Ed. Humana Press Inc, Totowa, NJ, hal. 631-637.
- El Sohaimy, S.A. dan Masri, S.H.D., 2014, Phenolic content, antioxidant and antimicrobial activities of egyptian and chinese propolis, *American-Eurasian J Agric & Environ Sci*, 14(10): 1116-1124.
- Falanga, V., 2003, *Mechanisms of cutaneous wound repair*. Dalam: Freedberg, I.M., Wolff, K., Eisen, A.Z., Wolff, K., Frank, A., Goldsmith, L.A, and Katz, S.I., editor. *Fitzpatrick's Dermatology In General Medicine*. 6<sup>th</sup> ed. New York: Graw-Hill, hal. 236-46.
- Fawcet, D.W., 2002, Buku Ajar Histologi (*A Textbook of Histology*) (terj.), EGC Jakarta, hal. 119-133.
- Federer, W.T., 1995, *Experimental: Theory and Application*, The Macmillan Company, pp.114-134.
- Fosenca, R.J., dan Walker, R.V., 1991, *Oral Maxillofacial Trauma*, WB Saunders Philadelphia.
- Gabriel, A., 2015, *Wound Healing and Growth Factor*, Medscape Reference, <http://emedicine.medscape.com>. (04/102015)
- Gal, P., Kilik, R., Mokry, M., Vidinsky, B., Vasilenko, T., Mozes, S., dan Bobrov, N., 2008, Tomori, Z., Bobber, J., dan Lenhardt, L., Simple Method of open skin wound healing model in corticosteroid-treated and diabetic rats : standardization of semi-quantitative and quantitative histological assesments, *Veterinari Medicina*, 53(12): 652-659.
- Gal, P., Vasilenko, T., Kostelnikova, M., Jakubco, J., Kovac, I., Sabol, F., Andre, S., Kaltner, H., Gabius, H.J., dan Smetana, Jr.K., 2011, Open wound healing in vivo: Monitoring binding and presence of adhesion/growth-regulatory galectins in rat skin during the course of complete re-epithelialization, *Acta Histochemica et Cytochemica* ,44, 191–199.
- Garrant, P., 2003, *Oral Cells and Tissues*, Quintessence Books, Canada, hal. 132-134.
- Gelse, K., Poßchl, E., Aigner, T., 2003, Collagens-structure, function, and biosynthesis, *Advanced Drug Delivery Reviews*, 55:1531– 1546.

- Ghisalberti, E.L., 1979, *Propolis: a review*, *Bee World*, Annual Report of the International Bee Research Association, Western Australia, 60: 59-84.
- Gocer, H. dan Gulcin, I., 2011, Caffeic acid phenethyl ester (CAPE), correlation of structure and antioxidant properties, *Int J Food Sci Nutr*, 62(8):821-825.
- Gurtner, G.C., 2007, Wound Healing: Normal and Abnormal. Dalam: Thorne C.H., penyunting. *Grabb & Smith's Plastic Surgery*, Edisi ke-6. Philadelphia: Lippincott Williams & Wilkins.
- Harding, K.G., and Morris, H.L., Patel, G.K., 2002, Healing chronic wounds. *BMJ*, 321: 160-3.
- Harrison, J.W., 1991, Healing of surgical Wound in Oral Mucoperiosteal Tissue, *J.Endod*, 17(8): 401-8.
- Hess, C.T., 2005, *Clinical Guide: Wound Care*, 5<sup>th</sup> ed, Lippincott Williams & Wilkins, USA, hal. 8-10.
- Hupp, J. R., 2003, Wound Repair, *Contemporary Oral and Maxillofacial Surgery*, 4<sup>th</sup> ed., Mosby, hal. 49-62.
- Inkinen, 2003, *Connective Tissue Formation in Wound Healing*, Helsinki University Central Hospital, Finland, hal.11-48.
- Iswanto, H., 2015, Pengaruh aplikasi topikal propolis 10% terhadap penyembuhan luka pasca pencabutan gigi desidui persistensi (Kajian pada anak usia 6-10 tahun), *Tesis*, Fakultas Kedokteran Gigi Anak Program Pendidikan Spesialis UGM, Yogyakarta.
- Jeneway, C.A., Paul, J.P., Walport, M., Shlomchik, M.J., 2001, *Immunology : The Immune System in Health and Disease*. 5<sup>th</sup> ed., New York.
- Johnson, M., 2012, Labome: Laboratory Mice and Rats. <http://www.labome.com/method/Laboratory-Mice-and-Rats.html>, diakses 18 November 2015
- Junquiera, L.C. dan Carneiro, J., 2005. *Basic histology: text and atlas*. 11<sup>th</sup> ed, New York: McGraw- Hill.
- Kathryn dan Vowden, P., *Wound Management*, 2008, Bradford, hal.1-3.
- Kosalec, I., Pepeljnjak, S., Bakmaz, M., dan Vladimir-Knezević, S., 2005, Flavonoid analysis and antimicrobial activity of commercially available propolis products, *Acta Pharm*, 55(4): 423-30.

- Kozier, B., Erb, G. dan Blais, K., 2004, *Fundamentals of Nursing: Concepts, Process, and Practice*, Prentice Hall Health, Philadelphia.
- Krell, R., 1996, *Value-added products from beekeeping*; FAO agricultural services bulletin no.124, Food and Agriculture Organization of the United Nations Rome, [www.fao.org/docrep/w0076e/w0076e14.htm#5.4.1](http://www.fao.org/docrep/w0076e/w0076e14.htm#5.4.1). diakses tanggal 17 April 2015.
- Krol, W., Czuba, Z., Scheller, S., Gabrys, J., Grabiec, S., Shaji, J., 1990, Antioxidant property of ethanolic extract of propolis (EEP) as evaluated by inhibiting the chemiluminescence oxidation of luminol. *Biochem Int*, 21(4): 593-7.
- Kruger, T.E., Miller, A.H., dan Wang, J., 2013, Review article, Collagen scaffolds in bone sialoprotein-mediated bone regeneration, *The Scientific World Journal*, Hindawi Publishing Corp. Article ID 812718.
- Kumar, V., Abbas, A.K., dan Fausto, N., 2005, *Robbins and Cotran: Pathologic Basis of Disease*, Elsevier Saunders Inc. Philadelphia.
- Leeson, C.R, Leeson, T.S, dan Paparo, A.A, 1996, *Buku Ajar Histologi (terj.)*, 5<sup>th</sup> ed, EGC, Jakarta, hal. 132-156.
- Lotfy, M., 2006, Biological Activity of Bee Propolis in Health and Disease, *Asian Pac J Cancer Prev*, 7: 22-31.
- Mahani, Karim, R.A., Nurjanah, N., 2011, *Keajaiban Propolis Trigona*, Pustaka Bunda, Jakarta.
- Marcucci, M.C., 1995, Propolis: Chemical composition, biological properties and therapeutic activity, *Apidologie*, 26: 83-89.
- Ma'ruf, S.Y., Rahardjo, Dwirahardjo, B., 2017, Pengaruh Propolis Terhadap Jumlah Osteoklas dan Produksi Kolagen Tipe I pada Proses Penyembuhan Defek Tulang, *Tesis*, Fakultas Kedokteran Gigi Universitas Gadjah Mada, Yogyakarta.
- Mawardi, H., 2001, Pengaruh Pemberian Ekstrak Propolis Secara Aplikasi Lokal pada Proses Pembentukan Serabut Kolagen Pasca Pencabutan Gigi Marmot (*Cavia Cobaya*), *Tesis*, Bagian Ilmu-ilmu Kesehatan FKG UGM, Yogyakarta.
- Marian, Mary., Shikora, S.A., dan Rusel, Mary., 2008, *Clinical Nutrition for Surgical Patients*, Jones and Bartlett Publishers, Canada, hal. 310-314.

- Marquez, N., Sancho, R., Macho, A., Calzado, M.A., Fiebich, B.L., and Munoz, E., 2004, Caffeic acid phenethyl ester inhibits T-cell activation by targeting both nuclear factor of activated T-cells and NF- $\kappa$ B transcription factors, *J Pharmacol Exp Ther (JPET)*, 308(3): 993-1001.
- Mencandetti, M., Cohen, A.J., 2002, Wound Healing, Healing and Repair, Emedicine: <http://www.emedicine.com/plastic/tropic.htm>.
- Meshner, A.L., 2014, Histologi Dasar Junqueira (terj.), 12<sup>th</sup> ed., EGC, Jakarta, hal. 84-105.
- Mulder, Magda., Small, N., Botma, Y., MacKenzie, J., dan Ziady, L., 2002, *Basic Principles of Wound Care*, Pearson South Africa, Cape Town, hal. 37
- Nijveldt, R.J., Els, V.N., Hoorn, D.E.C.V., Boelens, P.G., Klaske, V.N., dan Leeuwen, P.A.M.V., 2001, Flavonoids: a Review of Probable Mechanisms of Action and Potential Applications, *American Journal of Clinical Nutrition*, 74(4): 418-425.
- Norton, J.A., Barie, P.S., Bollinger, R.R., Chang, S.F.L., Mulvihill, S.J., Pass, H.I., dan Thompson, R.W., 2008, *Surgery: Basic Science and Clinical Evidence*, 2<sup>nd</sup> ed., Springer, New York, hal. 193.
- Novriansyah, R., 2008, Perbedaan Kepadatan Kolagen di sekitar Luka Insisi Tikus Wistar yang Dibalut Kasa Konvensional dan Penutup Oklusif Hidrokoloid selama 2 dan 14 Hari, *Tesis*, Fakultas Kedokteran UNDIP, Semarang.
- Park, E.H., and Kahng J.H., 1999, Suppressive effects of propolis in rat adjuvant arthritis, *Arch Pharm Res*, 22: 554-8.
- Parkony, J., and Korczak. J., 2001, Preparation of natural Antioxidants In: *Antioxidants in food: Practical Application*, Woodhead Publishing Limited, Cambridge England, hal. 311-27.
- Parolia, A., Thomas, M.S., Kundabala, M., and Mohan, M., 2010, Propolis and its potential uses in oral health, *International Journal of Medicine and Medical Sciences*, 2(7), pp. 210-215.
- Paul, W., dan Sharma, C.P., 2004, Chitosan and Alginate Wound Dressings: a Short Review, *Trends Biomater Artificial Organs*, 18: 18-23.
- Prabakti, Y., 2005, Perbedaan Jumlah Fibroblas disekitar Luka Insisi pada Tikus Wistar yang diberi Infiltrasi Penghilang Nyeri Levobupivakain dan yang tidak diberi Levobupivakain, *Tesis*, Fakultas Kedokteran Universitas Diponegoro, Semarang.



- Prestes, M.N., Ribas, C.A.P.M., Filho, J.M.R., Moreira, L.B., Boldt, A.B.W., Brustolin, E.V.B., Castanho L.S., Bernardi J.A, and Dias, F.C., 2012, Wound healing using ionic silver dressing and nonocrystalline silver dressing in rats, *Acta Cirúrgica Brasileira*, Vol. 27 (11) 2012 – 761.
- Rhadiyah dan Sulistiyawati, 2012, Pengaruh ekstrak minyak biji bunga matahari (*Heliantus annus*) terhadap proses awal penyembuhan luka, *Seminar nasional IX pendidikan Biologi*, FKIP UNS, hal. 706-711.
- Ridwan, E., 2013, Etika pemanfaatan hewan percobaan dalam penelitian kesehatan, *J Indon Med Assoc*, 63:112-6.
- Rizka, A., dan S.B. Vicky., 2013, Kepadatan kolagen tipe I pada luka operasi tikus wistar yang mengalami anemia karena perdarahan akut, *Media Journal of Emergency*, 2(1):1-12
- Robbins, S.L., Kumar, V., dan Cotran, R.s., 2007, *Buku Ajar Patologi Robbins*, 7<sup>th</sup> ed, EGC, Jakarta, hal. 65-82.
- Ross, R., dan Benditt, E.P., 1961, Wound Healing and collagen formation. *J Biophys Biochem Cytol*, 11: 677-700.
- Sabir, A., 2005, Aktivitas antibakteri flavonoid propolis trigona sp terhadap streptococcus mutans (in vitro), *Dent J* , 38: 135-141.
- Sabiston, D.C., Jr, M.D., 1995, *Sabiston Buku Ajar Bedah*, Penerbit Buku Kedokteran EGC, Jakarta, hal. 145-150.
- Sandhu, S.V., Gupta, S., Bansal, H., and Singla, K., 2012, Review article, Collagen in health and disease, *Journal of Orofacial Research*, 2(3):153-9.
- Schwartz, I.S., 1999, *Principles of Surgery*, 7<sup>th</sup> ed. New york: McGraw-Hill, hal. 263-278.
- Schultz, G.S., Ladwig, G dan Wysocki, A., 2005, Extracellular Matrix: Review of Its Roles in Acute and Chronic Wound, *World Wide Wound*. <http://www.worldwidewounds.com/2005/august/Schultz/Extrace-Matric-Acute-Chronic-Wounds.html#extracellular-matrix>, diakses tanggal 20 April 2017.
- Siregar, H.C.H., Fuah, A.M dan Octaviany, Y., 2011, *Propolis Madu Multikhasiat*, penerbit Swadaya, Jakarta, hal.15-59.
- Sirois, M., 2005. *Laboratory Animal Medicine: Principles and Procedures*. United States of America: Mosby Inc.

- Sjamsuhidajat, R., dan Jong, W.D., 2010, *Buku Ajar ilmu bedah*, 3<sup>th</sup> ed. EGC, Jakarta, hal. 95-101; 394-96.
- Stegeman, C.A., dan Davis, J.R., 2005, *The Dental Hygienist's Guide to Nutritional Care*, Elsevier Saunders, St. Louis, hal. 160-164.
- Suckow, M.A., Steven, H.W., and Craig, L.F., 2006, *The Laboratory Rat*, 2<sup>th</sup> ed. California (USA): Academic Pr.
- Suranto, A., 2010, *Dahsyatnya Propolis untuk Menggempur Penyakit*, Agro Media Pustaka, Jakarta, hal. 22-43.
- Sutta, J., Hanco, J., Janda, J., dan Tkac, J., 1974, Experimental and clinical experiences in the treatment of wounds in domestic animals by local application of an alcoholisc solution of propolis, *Folia Veterinaria*, 18: 143-147.
- Syarif, M., dan Warsitaatmaja., 2007, Anatomi Kulit, *Ilmu Penyakit Kulit dan Kelamin* 5<sup>th</sup> ed, Balai Penerbit FKUI, Jakarta, hal. 3-5.
- Takasi, K., Kikuni, N.B., Schilr, H., 1994, Electron microscopic and microcalorimetric investigations of the possible mechanism of the antibacterial action of propolis. *Povenance Planta Med*, 60: 222-227.
- Tanggo, V.T.I.P., 2013, Pengaruh pemberian topikal ekstrak kulit delima pada proses penyembuhan luka *split thickness* kulit tikus. *Tesis*. FKU Universitas Airlangga, Surabaya.
- Tarayre, J.P., dan Lauressergues, H., 1997, Advantages of a combination of proteolytic enzymes, flavonoids and ascorbic acid in comparison with non-steroid anti-inflammatory agents, *Arzneimittelforschung*, 27(6): 1144-1149.
- Taylor. J.R, Johnson., dan Ruth., 1997, *Buku Ajar Praktek Kebidanan*, Penerbit Buku Kedokteran EGC, Jakarta, hal. 21-25.
- Triyono, B., Witjaksono, Tjahjono, 2005, Perbedaan tampilan kolagen di sekitar luka insisi pada tikus wistar yang diberi infiltrasi penghilang nyeri levobupivakain dan yang tidak diberi levobupivakain, *Tesis*, Bagian Biomedik Universitas Diponegoro, Semarang.



- Turgut, A., Gokturk, E., Kose, N., Kacmaz, M., Ozturk, H.S., Seber, S., Acar, S., 1999, Oxidant status increased during fracture healing in rats, *Acta Orthop Scand*, 70(5):487-490.Usia, F., 2006, Uji pendahuluan aktivitas anti kanker dari propolis dan komponen aktifnya, *InfoPom-BPOM RI vol.7, no.1*.
- Wagh, V.D., 2013, Propolis: A Wonder Bees product and its Pharmacological Potentials, *Advances in Pharmacological Sciences*, Hindawi Publishing Corporation, Brazil, 1-6.
- Watson, R., 2002, *Anatomi dan Fisiologi untuk Perawat*, (terj.) 10<sup>th</sup> ed , EGC, Jakarta, hal. 397-407.
- Wiksmann, L.B., Salamonik, I., Spira, R., Tennenbaum, T., 2007, Novel Insights into wound healing sequences of events, *Toxicologic Pathol*, 35:767-79.
- Yunaidir, 2008, Buku Panduan Laboratorium Histologi, Fakultas Kedokteran, Universitas Gadjah Mada. Hal.2-7.