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DAFTAR PUSTAKA

Anonim. 2005. "Complications of Diabetes Module: Renal Complications". (Online). virtuallabs.stanford.edu/diabetes/Kidney.pdf. Diakses 11 Januari 2018.

Anusha, I., Kamala, A. and Jagadish, N. M. 2017. Pharmacological potency of aqueous leaves extract of *Alstonia scholaris* (L) associated metabolic alterations in alloxan induced diabetic rats. *Journal of Pharmacognosy and Phytochemistry*. 6(2): 213-216.

Arora, A. and Rai, Y. 2015. A review: phytochemistry, ethanobotanical and pharmacological activities of *Alstonia scholaris* R. Br. (Apocynaceae). *International Journal of Advanced Research*. 3(8): 584-590.

Ashok, P. K. and Upadhyaya, K. 2012. Tannins are astringent. *Journal of Pharmacognosy and Phytochemistry*. 1(3): 45-50.

Aspinall, V. (ed). 2006. *The Complete Textbook of Veterinary Nursing*. Butterworth-Heinemann, UK. pp. 694-700.

Baker, D. G. 1998. Future directions in rodent pathogen control. *ILAR Journal*. 39(4): 312-315.

Bandawane, D., Juvekar, A. and Juvekar, M. 2010. Antidiabetic and antihyperlipidemic effect of *Alstonia scholaris* Linn. bark in streptozotocin induced diabetic rats. *Indian Journal of Pharmaceutical Education and Research*. 45(2): 114-120.

Banks, R. E., Sharp, J. M., Doss, S. D. and Vanderford, D. A. 2010. *Exotic Small Mammal Care and Husbandry*. Wiley-Blackwell, USA. pp. 99 and 106.

Barbieri, J., Fontela, P. C., Winkelmann, E. R., Zimmermann, C. E. P., Sandri, Y. P., Mallet, E. K. V. and Frizzo, M. N. 2015. Anemia in patients with type 2 diabetes mellitus. *Hindawi*. pp. 1-7.

Barger, A. M. 2010. "Erythrocyte Morphology". Dalam D. J. Weiss dan K. J. Wardrop (eds.), *Schalm's Veterinary Hematology Sixth Edition* (p. 146). Wiley-Blackwell, USA.

Batool, S. and Iqbal, R. 2016. Macrocytic anemia: a review. *Journal of Entomology and Zoology Studies*. 4(5): 544-547.

Boggula, N., Chettupalli, A. K., Reddy, S., Reddy, N. and Bakshi, V. 2017. Anti diabetic effect of *Alstonia scholaris Linn* bark in alloxan induced diabetic

UNIVERSITAS GADJAH MADA
EFEK PERASAN KULIT BATANG PULE (Alstonia scholaris (L) R. Br.) TERHADAP GAMBARAN ERITROSIT TIKUS WISTAR (Rattus norvegicus) YANG DIINDUKSI STREPTOZOTOCIN (STZ)
TRINITA S BRONTO, Prof. drh. Bambang Hariono, Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

rats. *Journal of Global Trends in Pharmaceutical Sciences*. 8(1): 3590-3598.

Bolliger, A. P., Everds, N. E., Zimmerman, K. L., Moore, D. M., Smith, S. A. and Barnhart, K. F. 2010. "Hematology of Laboratory Animals". Dalam D. J. Weiss dan K. J. Wardrop (eds.), *Schalm's Veterinary Hematology Sixth Edition* (p. 854). Wiley-Blackwell, USA.

Bull, B. S., Aller, R. and Houwen, B. 2015. MCHC – red cell index or quality control parameter? *ResearchGate*. https://www.researchgate.net/publication/265668014. Diakses 3 Januari 2018

Canadian Council on Animal Care. 1985. "Laboratory Rats". (Online). https://www.ccac.ca/Documents/Standards/Guidelines/Vol2/rats.pdf. Diakses 13 Desember 2017.

Chen, K-J., Chang, Y-L., Chang, H., Su, S-Y., Peng, H-H., Chang, S-D. and Chao, A-S. 2016. Long-term outcome of pregnancy complicating with severe aplastic anemia under supportive care. *Taiwanese Journal of Obstetrics & Gynecology*. 56: 632-635.

Cowell, R. 2004. *Veterinary Clinical Pathology Secrets*. Mosby, USA. pp. 15,16, 24.

Desai, S. D., Desai, D. G. and Kaur, H. 2009. Saponins and their biological activities. *Pharma Times*. 41(3): 13-16.

Dey, A. 2011. *Alstonia scholaris* R. Br. (Apocynaceae): phytochemistry and pharmacology: a concise review. *Journal of Applied Pharmaceutical Science*. 1(6): 51-57.

Elisabetsky, E. and Costa-Campos, L. 2006. The alkaloid alstonine: a review of its pharmacological properties. *ResearchGate*. 3(1): 39-48.

Etim, N. N., Enyenihi, G. E., Williams, M. E., Udo, M. D. and Offiong, E. E. A. 2013. Haematological parameters: indicators of the physiological status of farm animals. *British Journal of Science*. 10(1): 33-45.

Fatimah, R. N. 2015. Diabetes melitus tipe 2. *J Majority*. 4 (5): 93-101.

Feng, L. Chen, Y., Yuan, L., Liu, X., Gu, J-F., Zhang, M-H. and Wang, Y. 2013. A combination of alkaloids and triterpenes of *Alstonia scholaris* (Linn.) R. Br. leaves enhances immunomodulatory activity in C57BL/6 mice and induces apoptosis in the A549 cell line. *Molecules*. 18: 13920-13939.

UNIVERSITAS GADJAH MADA
EFEK PERASAN KULIT BATANG PULE (Alstonia scholaris (L) R. Br.) TERHADAP GAMBARAN ERITROSIT TIKUS WISTAR (Rattus norvegicus) YANG DIINDUKSI STREPTOZOTOCIN (STZ)
TRINITA S BRONTO, Prof. drh. Bambang Hariono, Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Frandson, R. D., Wilke, W. L. and Fails, A. D. 2007. *Anatomy and Physiology of Farm Animals Seventh Edition*. Wiley-Blackwell, USA. pp. 257-258, 260.

Fuentes, M. 2018. "Hemocytometer square size". (Online). https://www.hemocytometer.org/hemocytometer-square-size/. Diakses 3 Januari 2018.

Guyton, A. C. and Hall, J. E. 2006. *Textbook of Medical Physiology Eleventh Edition*. Saunders, USA. p. 426.

Hariono, B., Santosa, C. M., dan Rosyadi, I. 2017. "Efek Perasan Kulit Batang Pule (*Alstonia scholaris* (L) *R. Br.*) terhadap Kadar Glukosa Darah dan Gambaran Histopatologik Hati, Ginjal, dan Pankreas Tikus Wistar (*Rattus norvegicus*) yang Diinduksi Streptozotocin (STZ)". Laporan Akhir Penelitian Dosen Fakultas Kedokteran Hewan, Universitas Gadjah Mada.

Hayuanta, H. H. 2016. Can hemoglobin-hematocrit relationship be used to assess hydration status?. *Cermin Dunia Kedokteran*. 43(2): 139-142.

Islam, F., Islam, S., Nandi, N. C. and Satter, M. A. 2013. Essential oil composition from the flowers of *Alstonia scholaris* of Bangladesh. *International Food Research Journal*. 20(6): 3185-3188.

Kachhawa, J. B. S., Sharma, N., Tyagi, S., Gupta, R. S. and Sharma, K. K. 2012. Antibacterial activity of *Alstonia scholaris*: an in vitro study. *International Journal of Pharmaceutical Sciences Review and Research*. 12(2): 40-41.

Kahn, C. M. (ed). 2010. *The Merck Veterinary Manual Tenth Edition*. Merck & Co., Inc, USA. p. 1804.

Kakisina, P. dan Ukratalo, A. M. 2011. Efek ekstrak metanol kulit batang pohon Pule (*Alstonia scholaris* (L) *R. Br.*) terhadap penurunan parasitemia mencit (*Mus musculus*) terinfeksi *Plasmodium berghei* Anka secara *in vivo*. *Molluca Medica*. 4(1): 49-60.

Kambali, S. and Taj, A. 2016. Polycythemia vera masked due to severe iron deficiency anemia. *Hematology/Oncology and Stem Cell Therapy*, In Press. pp. 1-3. http://dx.doi.org/10.1016/j.hemonc.2016.08.007. Diakses 24 Desember 2017.

Kasper, D. L., Hauser, S. L., Jameson, J. L., Fauci, A. F., Longo, D. L. and Loscalzo, J. (eds). 2015. *Harrison's Principles of Internal Medicine 19th Edition*. McGraw-Hill, USA. pp. 392-399 and 2399-2400.

Kementerian Kesehatan RI. 2014. *Situasi dan Analisis Diabetes*. Jakarta, Indonesia.

UNIVERSITAS GADJAH MADA
EFEK PERASAN KULIT BATANG PULE (Alstonia scholaris (L) R. Br.) TERHADAP GAMBARAN ERITROSIT TIKUS WISTAR (Rattus norvegicus) YANG DIINDUKSI STREPTOZOTOCIN (STZ)
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Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Kementerian Lingkungan Hidup. 2014. "Peluncuran Buku Status Kekinian Keanekaragaman Hayati Indonesia". (Online). http://www.menlh.go.id/peluncuran-buku-status-kekinian-keanekaragaman-hayati-indonesia/. Diakses 1 Desember 2017.

Kroll, M. H., Michaelis, L. C. and Verstovsek, S. 2015. Mechanisms of thrombogenesis in polycythemia vera. *Blood Reviews*. 29: 215-221.

Laurence, D. R. and Bacharach, J. M. 1964. *Evaluation of Drug Activities*. London: Academic Press. p. 117.

Lee, S-J. Cho, S-A., An, S-S., Na, Y-J., Park, N-H., Kim, H-S., Lee, C-W., Kim, H-K., Kim, E-K., Jang, Y-P and Kim, J-W. 2012. *Alstonia scholaris* R. Br. significantly inhibits retinoid-induced skin irritation *in vitro* and *in vivo*. *Evidence-Based Complementary and Alternative Medicine*. pp. 1-11.

Martin, R., Bermúdez-Humarán, L. G. and Langella, P. 2016. Gnotobiotic rodents: an *in vivo* model for the study of microbe-microbe interactions. *Frontiers in Microbiology*. 7(409): 1-7.

Mehdi, U. and Toto, R. D. 2009. Anemia, diabetes, and chronic kidney disease. *Diabetes Care*. 32(7): 1320-1326.

Merritt, B. Y. 2014. "Mean Corpuscular Hemoglobin (MCH) and Mean Corpuscular Hemoglobin Concentration (MCHC)". (Online). https://emedicine.medscape.com/article/2054497-overview#a2. Diakses 3 Januari 2018.

Mitchell, M. L. and Tully, T. N. (eds). 2009. *Manual of Exotic Pet Practice*. Saunders, USA. pp. 336 and 340.

Natesh, S. 2012. "Remarkable trees on NII Campus: 8. Saptaparna". (Online). http://www1.nii.res.in/pdf/saptaparna.pdf. Diakses 6 Desember 2017.

Nelson, R. W. and Couto, C. G. (eds). 2014. *Small Animal Internal Medicine Fifth Edition*. Mosby, USA. pp. 780 and 798.

Norsiah, W. 2015. Perbedaan kadar hemoglobin metode sianmethemoglobin dengan dan tanpa sentrifugasi pada sampel leukositosis. *Medical Laboratory Technology Journal*. 1(2): 72-83.

O'Rourke, L. G. 2010. "Preclinical Evaluation of Compound-Related Cytopenias". Dalam D. J. Weiss dan K. J. Wardrop (eds.), *Schalm's Veterinary Hematology Sixth Edition* (p. 88). Wiley-Blackwell, USA.

UNIVERSITAS GADJAH MADA
EFEK PERASAN KULIT BATANG PULE (Alstonia scholaris (L) R. Br.) TERHADAP GAMBARAN ERITROSIT TIKUS WISTAR (Rattus norvegicus) YANG DIINDUKSI STREPTOZOTOCIN (STZ)
TRINITA S BRONTO, Prof. drh. Bambang Hariono, Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Olver, C. S., Andrews, G. A., Smith, J. E. and Kaneko, J. J. 2010. "Erythrocyte Structure and Function". Dalam D. J. Weiss dan K. J. Wardrop (eds.), *Schalm's Veterinary Hematology Sixth Edition* (p. 123-124). Wiley-Blackwell, USA.

Pankti, K., Payal, G., Manodeep, C. and Jagadish, K. 2012. A phytopharmacological review of *Alstonia scholaris*: a panoramic herbal medicine. *International Journal of Research in Ayurveda & Pharmacy*. 3(3): 367-371.

Pollock, C. 2010. "Rat (*Rattus norvegicus*)". (Online). https://lafeber.com/vet/basic-information-for-rats/. Diakses 12 Januari 2018.

Pratap, B., Chakraborthy, G. S. and Mogha, N. 2013. Complete aspects of *Alstonia scholaris*. *International Journal of PharmTech Research*. 5(1): 17-26.

Pratyush, K., Misra, C. S. James, J., Lipin Dev, M. S., Veettil, A. K. T. and Thankamani, V. 2011. Ethnobotanical and pharmacological study of Alstonia (Apocynaceae) – a review. *Journal of Pharmaceutical Sciences and Research*. 3(8): 1394-1403.

Provan, D., Singer, C. R. J., Baglin, T. and Lilleyman, J. 2004. *Oxford Handbook of Clinical Haematology Second Edition*. Oxford University Press, UK. p. 11.

Putri, N. H. K. dan Isfandiari, M. A. 2013. Hubungan empat pilar pengendalian DM tipe 2 dengan rerata kadar gula darah. *Jurnal Berkala Epidemiologi*. 1(2): 234-243.

Putriani, S., Soma, I. G., dan Ardana, I. B. K. 2012. Nilai hematokrit, kadar hemoglobin, dan total eritrosit ayam pedaging yang diinjeksi kombinasi tylosin dengan gentamicin. *Indonesia Medicus Veterinus*. 1(4): 492-504.

Rakel, R. E. and Rakel, D. P. (eds). 2016. *Textbook of Family Medicine Ninth Edition*. Elsevier, USA. p. 782.

Riduan, R. J. dan Mustofa, S. 2017. Penatalaksanaan KAD dan DM tipe 1 pada anak usia 15 tahun. *J Medula Unila*. 7(2): 114-122.

Roosleyn, I. P. T. 2016. Strategi dalam penanggulangan pencegahan anemia pada kehamilan. *Jurnal Ilmiah Widya*. 3(3): 1-9.

Russell, J. and McClelland, P. 2010. "*Rattus norvegicus* (brown rat)". (Online). https://www.cabi.org/isc/datasheet/46829. Diakses 4 Januari 2018.

UNIVERSITAS
GADJAH MADA
EFEK PERASAN KULIT BATANG PULE (Alstonia scholaris (L) R. Br.) TERHADAP GAMBARAN ERITROSIT TIKUS WISTAR (Rattus norvegicus) YANG DIINDUKSI STREPTOZOTOCIN (STZ)
TRINITA S BRONTO, Prof. drh. Bambang Hariono, Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Sahastrabuddhe, A. P. 2016. Counting of RBC and WBC using image processing: a review. *International Journal of Research in Engineering and Technology*. 5(5): 356-360.

Saxena, M., Saxena, J., Nema, R., Singh, D. and Gupta, A. 2013. Phytochemistry of medicinal plants. *Journal of Pharmacognosy and Phytochemistry*. 1(6): 168-182.

Smith, J. M., Moreno, J., Boal, B. W. and Garg, N. K. 2014. Total synthesis of the akuammiline alkaloid picrinine. *Journal of the American Chemical Society*. 136: 4504-4507.

Smith, J. dan Mangkoewidjojo, S. 1988. *Pemeliharaan, Pembiakan, dan Penggunaan Hewan Percobaan di Daerah Tropis*. UI Press, Jakarta. pp. 37-39.

Soliman, M. M., Ahmed, M. M. and El-Shazly, S. A. 2013. Cinnamon extract regulates gene expression of lipid and carbohydrate metabolism in streptozotocin induced diabetic Wistar rats. *American Journal of Biochemistry and Biotechnology*. 9(2): 172-182.

Theml, H., Diem, H. and Haferlach, T. 2004. *Color Atlas of Hematology Practical Microscopic and Clinical Diagnosis*. Thieme, Germany. pp. 10-11.

Thomas, P. S., Kanaujia, A., Ghosh, D., Duggar, R. and Katiyar, C. K. 2008. Alstonoside, a secoiridoid glucoside from *Alstonia scholaris*. *Indian Journal of Chemistry*. 47B: 1298-1302.

Venkataramana, G., Indira, P. and Rao, D. V. M. 2013. Changes of plasma total proteins, albumin and fibrinogen in type 2 diabetes mellitus – a pilot study. *Indian Journal of Basic & Applied Medical Research*. 2(7): 679-685.

Verma, S. C., Maurya, A., Meena, R., Jayanthy, A., Srivastava, A., Shankar, M. B. and Sharma, R. K. 2016. Phytochemistry and chromatographic analysis of *Alstonia scholaris* (L.) *R. Br*. used as a traditional medicine: a review. *World Journal of Pharmaceutical Research*. 5(01): 1503-1519.

Willard, M. D. and Tvedten, H. 2012. *Small Animal Clinical Diagnosis by Laboratory Methods*. Elsevier, USA. pp. 16-18.

World Health Organization. 2016. *Global Report on Diabetes*. p. 21.