

## DAFTAR PUSTAKA

- American Diabetes Association. (2025). Diagnosis and classification of diabetes: Standards of care in diabetes 2025. *Diabetes Care*, 48(1), 27–49.
- Afriyeni, H., Rizal, R., Armenia, A., Esfika, M., & Dillasamola, D. (2023). Uji Efektifitas Ekstrak Etanol Daun Arbei (*Rubus rosifolius* Sm.) Terhadap Penurunan Kadar Glukosa Darah pada Mencit Diabetes. *Jurnal Sains Farmasi & Klinis*, 10(2), 248-255.
- Ali, M., Hassan, M., Ansari, S. A., Alkahtani, H. M., Al-Rasheed, L. S., & Ansari, S. A. (2024). Quercetin and Kaempferol as Multi-Targeting Antidiabetic Agents against Mouse Model of Chemically Induced Type 2 Diabetes. *Pharmaceuticals*, 17(4) 1-20.
- Ansari, P., Choudhury, S. T., Seidel, V., Rahman, A. Bin, Aziz, M. A., Richi, A. E., Rahman, A., Jafrin, U. H., Hannan, J. M. A., & Abdel-Wahab, Y. H. A. (2022). Therapeutic Potential of Quercetin in the Management of Type-2 Diabetes Mellitus. *Life Science Research Archive*, 12(8), 1–18.
- Ansari, P., Samia, J. F., Khan, J. T., Rafi, M. R., Rahman, M. S., Rahman, A. B., Abdel-Wahab, Y. H. A., & Seidel, V. (2023). Molecular Mechanisms. *Nutrients*, 15(3), 1–25.
- Arrofiqi, M. R., Sakti, A. S., & Mayangsari, F. D. (2024). Kajian Literatur: Aplikasi Sejumlh Metode Ekstraksi Konvensional untuk Mengekstraksi Senyawa Fenolik dari Bahan Alam. *Jurnal Penelitian Farmasi & Herbal*, 7(1), 8–24.
- Astuti, M. D., Fauzi, L., & Mustikasari, K. (2022). Isolation and Characterization of Compounds from Cinnamon Oil (*Cinnamomum burmanii*) Distillation Residu. *Jurnal Sains Dan Terapan Kimia*, 16(1), 9-17.
- Ayoola, M. D., Ogundeko, Y. B., Obanleowo, T. D., Omole, D. O., Chukwu, B. N., & Faloye, K. O. (2024). Evaluation of the Antidiabetic Activities of the Fruit of *Parquetina nigrescens* (Afzel.) Bullock and In Silico Identification of Its Antidiabetic Agent. *Bioinformatics and Biology Insights*, 9(18), 50-61.
- Banday, M. Z., Sameer, A. S., & Nissar, S. (2020). Pathophysiology of diabetes: An overview. *Avicenna Journal of Medicine*, 10(4), 174–188.
- Bar, S., & Kara, M. (2024). Linalool exerts antioxidant activity in a rat model of diabetes by increasing catalase activity without antihyperglycemic effect.

*Experimental and Therapeutic Medicine*, 28(3) 93-98.

- Boughendjioua, H., & Djeddi, S. (2018). Study of The Organoleptic and Physicochemical Properties of Cinnamon Essential Oil (*Cinnamomum zeylanicum*). *American Journal of Life Science Researches*, 41(3), 98–110.
- Cruz-Pineda, W. D., Parra-Rojas, I., Rodríguez-Ruíz, H. A., Illades-Aguiar, B., Matia-García, I., & Garibay-Cerdenares, O. L. (2022). The regulatory role of insulin in energy metabolism and leukocyte functions. *Journal of Leukocyte Biology*, 111(1), 197–208.
- Depkes RI. (1995). *Farmakope Indonesia* Edisi III. Jakarta: Departemen Kesehatan RI
- Depkes RI. (2012). *Farmakope Herbal Indonesia. Pocket Handbook of Nonhuman Primate Clinical Medicine*. Jakarta: Departemen Kesehatan RI
- Depkes RI. (2017). *Formularium Ramuan Obat Tradisional Indonesia*. Jakarta: Departemen Kesehatan RI
- Depkes RI. (2024). *Mari Kenali Diabetes Melitus*. Jakarta: Pusat Data dan Informasi Kementrian Kesehatan RI.
- Dhanya, R. (2022). Quercetin for managing type 2 diabetes and its complications, an insight into multitarget therapy. *Biomedicine and Pharmacotherapy*, 146 (6), 81-89.
- DiPiro, J. T. (2023). *DiPiro's Pharmacotherapy A Pathophysiologic Approach* 12<sup>th</sup> Edition. New York : McGraw Hill.
- Fern, K. (2014). *Cinnamomum burmannii* (*Useful Tropical Plants Database*). Hawaii: United States Geological Survey.
- Firmanto, G. M., Siharis, F. S., Hatidjah, N., & Halid, A. (2023). Uji Efektivitas Infusa Rambut Jagung (*Zea mays* L) Sebagai Anti Diabetes Pada Mencit (*Mus musculus*) Yang Di Induksi Streptozotocin Effectiveness Test of Corn Hair (*Zea mays* L) Infusion as Anti-Diabetes in Mice (*Mus musculus*) Induced by Streptozotoc. *Jurnal Pharmacia Mandala Waluya* ,2(1), 28-35
- Gandhi, G. R., Hillary, V. E., Antony, P. J., Zhong, L. L. D., Yogesh, D., Krishnakumar, N. M., Ceasar, S. A., & Gan, O. I. & R.-Y. (2024). A systematic review on anti-diabetic plant essential oil compounds: Dietary sources, effects, molecular mechanisms, and safety. *Critical Reviews in Food Science and Nutrition*, 64(19), 41-55.

- Ghasemi, A., & Jeddi, S. (2023). Streptozotocin As Tool For Induction of Rat Models of Diabetes : A Pratical Guide. *Experimental and Clinical Sciences Journal*, 23(22), 274–294.
- Han, T., Cai, D., Geng, S., Wang, Y., Zhen, H., & Wu, P. (2013). Effect of whey protein on plasma amino acids in diabetic mice. *Experimental and Therapeutic Medicine*, 6(6), 1449–1454.
- Harborne, J. B. (1984). *Metode Analisis Penuntun cara modern menganalisis tumbuhan*. Bandung: Institut Teknologi Bandung.
- Hasanah, A. M., Kurniawan, K., & Fadholah, A. (2023). Perbandingan Kadar Total Flavonoid Metode Infusa Dan Rendaman Buah Kurma Ajwa (*Phoenix Dactylifera* L .) Menggunakan Spektrofotometri Uv-Vis. *Jurnal Ilmah Global Farmasi*, 1(1), 9–17.
- Hasibuan, N. E., Azka, A., Basri, & Mujiyanti, A. (2022). Skrining Fitokimia Ekstrak Etanol Daun Avicennia Marina dari Kawasan Bandar Bakau Dumai Phytochemical Screening of Avicenna Marina Leaf Ethanol Extract from Bandar Bakau Dumai Area. *Authentic Research of Global Fisheries Application Journal (Aurelia Journal)*, 2(2), 306–312.
- Internasional Diabetes Federation. 2025. *Explore diabetes around the world*. Bangkok: IDF Diabetes Atlas 11<sup>th</sup> Edition.
- Ighodaro, O. M., Adeosun, A. M., & Akinloye, O. A. (2017). Alloxan-induced diabetes, a common model for evaluating the glycemic control potential of therapeutic compounds and plants extracts in experimental studies. *Medicina (Lithuania)*, 53(6), 365–374.
- Iida, H., & Watada, H. (2025). Pancreatic  $\beta$ -cell Dysfunction and Diabetes. *Juntendo Medical Journal*, 71(3), 158–165.
- Julianto, T. S. (2019). *Fitokimia Tinjauan Metabolit Sekunder dan Skrining fitokimia*. Jakarta: Buku kedokteran EGC.
- Kamal, S., Margono, Hidayah, N., Rohmayanti, & Luthfiyati, H. (2017). Dosis Streptozotocyn Mempengaruhi Mortalitas Mencit Balb-C Dalam Proses induksi Hewan Model Diabetes Mellitus. *University Research Colloquium*, 17(2), 402–406.
- Kamilah, N. I., Hardiyansyah, S. C., & Saputra, A. (2025). Studi Komparatif Efektivitas Antioksidan Umbi Bawang Dayak (*Eleutherine americana*) Dengan Teknik Ekstraksi Infusa dan Maserasi. *Journal Pharmacopoeia*, 4(2), 75–86.

- Kaneto, H., Kimura, T., Obata, A., Shimoda, M., & Kaku, K. (2021). Multifaceted mechanisms of action of metformin which have been unraveled one after another in the long history. *International Journal of Molecular Sciences*, 22(5), 1–13.
- Kementerian Kesehatan RI. (2017). *Formularium Ramuan Obat Tradisional Indonesia*. Jakarta:Kemenkes RI
- Khairani, D., Ilyas, S., & Yurnadi. (2024). *Prinsip dan Praktik Hewan Percobaan Mencit (Mus musculus)*. Medan: Universitas Sumatera Utara
- Kumar, S., Kumari, R., & Mishra, S. (2019). Pharmacological properties and their medicinal uses of Cinnamomum: a review. *Journal of Pharmacy and Pharmacology*, 71(12), 1735–1761.
- Liu, Z., Li, H., Cui, G., Wei, M., Zou, Z., & Ni, H. (2021). Efficient extraction of essential oil from *Cinnamomum burmannii* leaves using enzymolysis pretreatment and followed by microwave assisted method. *Lebensmittel-Wissenschaft & Technologie*, 14(7), 149-156.
- Manongko, P. S., Sangi, M. S., & Momuat, L. I. (2020). Uji Senyawa Fitokimia dan Aktivitas Antioksidan Tanaman Patah Tulang (*Euphorbia tirucalli L.*). *Jurnal Mipa*, 9(2), 64–69.
- Maslahah, N. (2024). Standar simplisia tanaman obat sebagai bahan sediaan herbal. *Balai Pengujian Standar Instrumen Tanaman Rempah, Obat Dan Aromatik (BSIP TROA)*, 2(2), 1–4.
- Mentari, I. A., Azmi, R. N., Astriani, N. A., & Kamilah, L. Z. (2024). Potensi Ekstrak Air Kayu Manis (*Cinnamomum burmanii*) Sebagai Agen Neuroprotektif Pada Penyakit Parkinson Dengan Model Mencit Jantan (*Mus musculus*) Yang Diinduksi Haloperidol. *Media Farmasi*, 20(2), 161–172.
- Min, K. J., A., J. I., Min, K. J., Hee, C. M., & Hye, Y. J. (2023). Anti-Inflammatory Effect of Cinnamomum japonicum Siebold's Leaf through the Inhibition of p38/JNK/AP-1 Signaling. *Pharmaceuticals*, 16(10), 1–15.
- Muliyani, P., Soemarie, Y. B., & Fauzi, M. (2025). Studi Fitokimia: Identifikasi Senyawa Metabolit Sekunder Dari Ekstrak Daun Mengkrengan (*Polygonum barbatum L.*) di Kalimantan. *Jurnal Farmasi IKIFA* 4(1), 87–94.
- Muthia, R., Ramdhan, H., & Arsyad, Z. S. N. (2023). Skrining Fitokimia dan Uji Aktivitas Antioksidan Infusa Daun Mundar (*Garcinia forbesii* King.) Menggunakan Metode DPPH (1,2-Diphenyl-1-Picrylhydrazyl). *Sains Medisina* 1(6), 356–362.

- Nurinda, E., Kusumawardani, N., Wulandari, A. S., Fatmawati, A., Emelda, E., Nisa, H., Hasan, N. A., Iriyanti, W. F., Rohmah, M., Lestari, P., & Aprilia, V. (2022). Pharmacological Study: Synergistic Antidiabetic Activity of Cinnamon Bark and Zingiber Extract in Streptozotocin-Induced Diabetic Rats. *Macedonian Journal of Medical Sciences*, 10(8), 1–6.
- Pertiwi, W., Haryanto, Ihsani, N., & Pertiwi, L. (2023). Profil Gula Darah Mencit Jantan (*Mus Musculus*) Hiperglikemia Paska Pemberian Oral Yogurt Dengan Gula 0 % Dan 18 %. *Journal of Science, Technology, and Entrepreneurship*, 4(2), 1–6.
- Pratiwi, N. K. Y., & Santika, I. W. M. (2023). Mekanisme Aktivitas Anti-Diabetes Dari Kandungan Senyawa Tanaman Kersen (*Muntingia calabura L.*): Systematic Review. *Prosiding Workshop Dan Seminar Nasional Farmasi*, 2(2), 100–112.
- Prayitno, S., Adriana, A. N., Mutiara, V., Sari, K. L., & Sari, P. I. (2019). Uji Efek Analgetik Fraksinasi Ekstrak Etanol Batang Brotowali (*Tinospora crispa L.*) Terhadap Mencit (*Mus musculus*). *Journal Pharmacy and Sciences ISSN*, 11(2), 1-25.
- Pujiastuti, E., & Megawati, A. (2019). Efek Hipoglikemik Fraksi Etil Asetat dan Air Ranting Buah Parijoto (*Medinilla speciosa Blume*) pada Tikus Putih Jantan Galur Wistar dengan Metode Induksi Aloksan. *Cendekia Journal of Pharmacy*, 3(2), 66–73.
- Punthakee, Z., Goldenberg, R., & Katz, P. (2018). Definition , Classification and Diagnosis of Diabetes , Prediabetes and Metabolic Syndrome Diabetes Canada Clinical Practice Guidelines Expert Committee. *Canadian Journal of Diabetes*, 42(1), 10–15.
- Rena, G., Hardie, D. G., & Pearson, E. R. (2017). The mechanisms of action of metformin. *Diabetologia*. 60 (9),1577–1585.
- Rufaedah, E. A., Himmawan, D., & Carsinah, S. (2022). Pengaruh Bimbingan Kelompok Terhadap Peningkatan Motivasi Belajar Siswa Kelas VIII SMPN 2 Indramayu. *Islamic Guidance and Counseling Journal*, 3(2), 19–28.
- Saftratilofa. (2016). Uji Daya Hambat Ekstrak Daun Kayu Manis. *Jurnal Ilmiah Universitas Batang Hari*, 16(1), 98–103.
- Safutri, W., Karim, D. D. A., & Fevinia, M. (2022). Skrining Fitokimia Simplisia di Kabupaten Pringsewu. *Jurnal Farmasi*, 4 (2), 23–27.
- Santoso, F. K. N., Muchammad Muchtar Lutfi, A., & Fitriani, D. (2023). Penerapan

Kesejahteraan Hewan serta Teknik dan Manajemen Pemeliharaan Mencit di BBVF Pusvetma Surabaya. *Buletin Veteriner Farma*, 32(2), 167–186.

Sari, I. P., Hidayati, A. R., & Muliassari, H. (2024). Perbandingan Aktivitas Antioksidan Infusa Simplisia Segar dan Simplisia Kering Daun Buni (*Antidesma bunius* L. Spreng) dengan Metode DPPH. *Jurnal Sains Dan Kesehatan*, 5(5), 605–614.

Sharifi-Rad, J., Dey, A., Koirala, N., Shaheen, S., El Omari, N., Salehi, B., Goloshvili, T., Cirone Silva, N. C., Bouyahya, A., Vitalini, S., Varoni, E. M., Martorell, M., Abdolshahi, A., Docea, A. O., Iriti, M., Calina, D., Les, F., López, V., & Caruntu, C. (2021). Cinnamomum Species: Bridging Phytochemistry Knowledge, Pharmacological Properties and Toxicological Safety for Health Benefits. *Frontiers in Pharmacology*, 12(5), 1–27.

Sherman, K. J. (2020). The Trials and Tribulations of Selecting Comparison Groups in Randomized Trials of Nonpharmacological Complementary and Integrative Health Interventions. *Journal of Alternative and Complementary Medicine* 26(6), 449–455.

Sirait, T. S., Arianto, A., & Dalimunthe, A. (2023). Phytochemical Screening of Cinnamon Bark (*Cinnamomum burmanii*) (C. Ness & T. Ness) C. Ness ex Blume Ethanol Extract and Antioxidant Activity Test with DPPH (2,2-diphenyl-1-picrylhydrazyl) Method. *International Journal of Science, Technology & Management*, 4(1), 254–259.

Songvut, P., Akanimanee, J., Suriyo, T., Pholphana, N., Rangkadilok, N., Panomvana, D., Puranajoti, P., & Satayavivad, J. (2025). Non-linear oral bioavailability and clinical pharmacokinetics of high-dose *Andrographis paniculata* ethanolic extract: relevant dosage implications for COVID-19 treatment. *Pharmaceutical Biology*, 63(1), 42–52.

Sopian, A., & Imansari, A. N. R. (2016). *Biofarmasetika-Farmakokinetika*. Jakarta.

Sumerah, M. E., Yudistira, A., & Mansauda, K. L. R. (2020). Ternak , Dan Asam Amino Ternak Terhadap Tikus. *Phamacon*, 9(2) 246-253

Suryanti, Asmanidar, Manalu, T. A., Azhar, B., Sumara, R., & Fadli. (2025). *Diabetes Mellitus Diabetes Mellitus*. Jakarta: Nuansa Fajar Cemerlang.

Tamahiwi, N. E. R., Bodhi, W., Datu, O. S., & Fatimawali, F. (2023). Uji Aktivitas Antidiabetes Ekstrak Etanol Daun Labu Kuning (*Cucurbita moschata*) Pada Tikus Putih Jantan (*Rattus norvegicus*). *Jurnal Kesehatan Tambusai*, 4(3), 2416–2429.

Triyanti, S. B., Lestari, F. P., Anisa, P., Fitriana, N., & Rostiana, H. R. (2025).

Pengaruh Metode Ekstraksi Maserasi bunga kamboja. *Jurnal Sains dan Edukasi Sains*, 8(1), 71–78.

Utami, Y. P. (2020). Pengukuran Parameter Simplisia dan Ekstrak Etanol Daun Patikala (*Etlingera elatior* (Jack) R.M. Sm) Asal Kabupaten Enrekang Sulawesi Selatan. *Majalah Farmasi Dan Farmakologi*, 24(1), 6–10.

Wahyuningsih, S., Yunita, I., Sundari, U. Y., Nurmalasari, E., Suryandani, H., Pagalla, D. B., Kalalinggi, S. Y., Alpian, Ramlah, & Nasrullah, M. (2024). *Buku Ekstraksi Bahan Alam*. Padang: Gita Lentera Redaksi

Widayanti, E., Mar'ah Qonita, J., Ikayanti, R., & Sabila, N. (2023). Pengaruh Metode Pengeringan terhadap Kadar Flavonoid Total pada Daun Jinten (*Coleus amboinicus* Lour). *Indonesian Journal of Pharmaceutical Education*, 3(2), 219–225.

Yang, Y., Chen, Z., Zhao, X., Xie, H., Du, L., Gao, H., & Xie, C. (2022). Mechanisms of Kaempferol in the treatment of diabetes: A comprehensive and latest review. *Frontiers in Endocrinology*, 13(9), 1–15.

Yasser, M., Ilham, N. M., Amri, Herman, B., Ninin, A., & Ririn, U. S. (2022). Skrining Fitokimia Senyawa Flavonoid, Alkaloid, Saponin, Steroid Dan Terpenoid Dari Daun Kopasanda (*Chromoloena odorata* L.). *Bidang Ilmu Teknik Kimia, Kimia Analisis, Teknik Lingkungan, Biokimia Dan Bioproses*, 2(2) 90–94.

Yin xiāng. (2025). *Cinnamomum burmanni* (Nees & T.) Nees) Blume. *Yang encyclopedia*. China.

Yudiyanto, Hakim, N., & Wakhidah, A. Z. (2021). *Tumbuhan Obat Suku Lampung di Wilayah Tanaman Nasional Way Kambas*. Lampung: IKAPI (Ikatan Penerbit Indonesia).

Yuwanda, A., Budipratama Adina, A., & Farmasita Budiastuti, R. (2023). Kayu Manis (*Cinnamomum burmannii* (Nees and T. Nees) Blume): Review tentang Botani, Penggunaan Tradisional, Kandungan Senyawa Kimia, dan Farmakologi. *Journal of Pharmacy and Halal Studies*, 1(1), 17–22.

Zhu, R., Liu, H., Liu, C., Wang, L., Ma, R., Chen, B., Li, L., Niu, J., Fu, M., Zhang, D., & Gao, S. (2017). Cinnamaldehyde in diabetes: A review of pharmacology, pharmacokinetics and safety. *Pharmacological Research*, 122 (2) 78–89.

Zou, H., Yin, P., Liu, L., Duan, W., Li, P., Yang, Y., Li, W., Zong, Q., & Yu, X. (2021). Association between weight cycling and risk of developing diabetes in adults: A systematic review and meta-analysis. *Journal of Diabetes Investigation*, 12(4), 625–632



