

DAFTAR PUSTAKA

- ADA. (2020). Physical activity/exercise and diabetes: A position statement of the American Diabetes Association. *Diabetes Care*, 39(11), 2065–2079. <https://doi.org/10.2337/dc16-1728>
- Adu, M. D., Malabu, U. H., Malau-Aduli, A. E. O., & Malau-Aduli, B. S. (2019). Enablers and barriers to effective diabetes self-management: A multi-national investigation. *PLoS ONE*, 14(6), 1–22. <https://doi.org/10.1371/journal.pone.0217771>
- Ahn, S., & He, M. (2026). *Forecasting the global burden of peripheral artery disease : implications for wound healing and healthcare systems*. January, 2025–2026.
- Akimbekov, N. S., Digel, I., Beeser, J., Tepecik, A., Sakhanova, S. K., Altynbay, N. P., Sherelkhan, D. K., Kamenov, B. K., Nussipov, D. A., Arystanbekuly, B., & Tastambek, K. T. (2025). An Overview of Quantitative Capillary Refill Time: Measurement and Application in Clinical Practice. *Engineered Science*, 34, 1–12. <https://doi.org/10.30919/es1437>
- Alberta, H. (2021). *Diabetes Foot Care Clinical Pathway Healthcare Provider's Guide*. Alberta Health Services. <https://www.albertahealthservices.ca/assets/about/scn/ahs-scn-don-diabetes-foot-care-clinical-pathway-hp-guide.pdf>
- Alfin, R., Rayasari, F., Anggraeni, D., & Atun, S. (2024). Penerapan Buerger Allen Exercise Untuk Meningkatkan Perfusi Ke Ekstremitas Bawah Pada Neuropathy Perifer Penderita Diabetes Melitus Tipe 2. 11(2), 139–150.
- Alifia, R. R., Sadeghi, M., Eluru, M., Jafari, M., & Grando, M. A. (2025). *Bridging ethical gaps in digital health research : a framework for informed consent aligned with NIH guidance*.
- Arif, T. (2023). Peningkatan Vaskularisasi Perifer dan Pengontrolan Glukosa Klien Diabetes Mellitus Melalui Senam Kaki. *Jurnal Ners Dan Kebidanan (Journal of Ners and Midwifery)*, 7(1), 082–088. <https://doi.org/10.26699/jnk.v7i1.art.p082-088>
- Astuti, Y., Fandizal, M., & Sani, D. N. (2021). Pengaruh Terapi Senam Kaki Diabetik Terhadap Penurunan Resiko Neuropati Pada Klien Dengan Diabetes Melitus Vol. 7, No. 1, 2021. 7(1), 9–14.
- Aydin, M. A. (2024). *Roy Adaptation Model-based adjustment scale in patients with type 2 diabetes : a scale development study*. 20(4). <https://doi.org/10.22141/2224-0721.20.4.2024.1403>
- Barangkau, Yamar, Arafah, E., Agustin, A., Wardanengsih, E., & Ruslang. (2025). Diabetic Foot Exercises as Physical Activity Therapy to Prevent Chronic Complications of Type II Diabetes Mellitus. *Journal Of Nursing Practice*, 8(2), 312–321. <https://doi.org/10.30994/jnp.v8i2.669>
- Chairunnisa, N. (2024). *Asuhan Keperawatan Pada Pasien Diabetes Mellitus tipe 2 dan Aplikasi Terapi Buerger Allen Exercise pada Masalah Keperawatan Perfusi Perifer Tidak Efektif*.
- Chang, C., Chen, M., Shen, J., Lin, Y. Bin, Hsu, W., & Lin, B. (2023). A quantitative real-time assessment of Buerger exercise on dorsal foot peripheral skin circulation in patients with diabetes foot. 1–5.
- Darmareja, R., Yaasinta, S., Pangestu, D., Ningtiyas, A., & Nabila, P. R. (2025).

- Deteksi dan Manajemen Diabetes Mellitus sebagai Pencegahan Ketoasidosis Diabetikum*. 14(1), 524–532.
- Dewi, R., Ananti, Y., Mulyana, B., & Septiana, V. (2025). Pengaruh Senam Kaki Diabetik dengan Bola Plastik Terhadap Tingkat Sensitivitas Kaki pada Pasien Diabetes Mellitus Tipe 2. *Jurnal Penelitian Perawat Professional*, 7(5474), 1333–1336. <http://jurnal.globalhealthsciencegroup.com/index.php/JPPP>
- Dinkes Jawa Timur. (2024). Profil Kesehatan Provinsi Jawa Timur. *Profil Kesehatan Provinsi Jawa Timur*, 214–218. <https://dinkes.jatimprov.go.id>
- Eberle, R. (2020). *The Relationship Between Glucose Levels and Physical Activity*. 1–20.
- Eka, I. G., & Agastya, A. (2025). Aspek Bioetika Penyimpanan Data dalam Rekam Medis Elektronik. 9(3), 81–85. <https://doi.org/10.26880/jeki.v9i3.95>
- Ghanbari-afra, L., Yousefizadeh, F., & Ghanbari-afra, M. (2023). *An Integrated Review of The Application of The Roy Adaptation Model on Quality of Life*. 29(6), 811–821.
- Gieroba, B., Kryska, A., & Sroka-bartnicka, A. (2025). *Type 2 diabetes mellitus – conventional therapies and future perspectives in innovative treatment*. 42(April).
- Gina, A., & Putri, D. (2023). Penerapan Senam Kaki Terhadap Nilai Ankle Brachial Index dalam Intervensi Ketidakefektifan Perfusi Perifer pada Pasien Diabetes Mellitus Tipe II.
- Harreiter, J., & Roden, M. (2023). Diabetes mellitus: definition, classification, diagnosis, screening and prevention (Update 2023). *Wiener Klinische Wochenschrift*, 135, 7–17. <https://doi.org/10.1007/s00508-022-02122-y>
- Hidayat, A. A. (2024). *Metode Penelitian Kesehatan Paradigma Kuantitatif*. Health Books.
- IDF. (2021). International Diabetes Federation. In *Diabetes Research and Clinical Practice* (Vol. 102, Issue 2). <https://doi.org/10.1016/j.diabres.2013.10.013>
- IDF. (2025). International Diabetes Federation Atlas 11th Edition. In *Diabetes Atlas*. In *International Diabetes Federation: Vol. 11th editi*. <https://www.idf.org/aboutdiabetes/type-2-diabetes.html>
- Ilham, R., Bintang, A., & Mulia, N. (2025). *Perbandingan Buerger Allen Exercise dan Diabetic Foot Exercise Terhadap Kadar Glukosa Darah Pada Penderita Diabetes Mellitus Tipe 2*. 9, 6938–6942.
- Ismail, K. B., Sukriyadi, Basri, M., Nasrullah, & Sukma, S. (2023). *Nursing Intervention "Enhanced Perfusion Of Peripheral Tissues In Diabetic Ulcer Patients: A Case Report*. 8153, 171–182.
- Jan, Y., Kelhofer, N., Tu, T., Mansuri, O., Onyemere, K., Dave, S., & Pappu, S. (2024). *Diagnosis, Pathophysiology and Management of Microvascular Dysfunction in Diabetes Mellitus*. 1–17.
- Jannah, R., Fatarona, A., & Cahyono, H. D. (2024). Differences in The Effectiveness of Buerger Allen Exercise and Foot Exercises on Peripheral Perfusion in Type 2 Diabetes Mellitus. *Journal of Nursing Science Update*, 12(2), 58. <https://doi.org/http://dx.doi.org/10.21776/ub.jik.2024.012.02.08>
- Jansen, S., & Rahmawati, E. A. (2023). Aplikasi Model Adaptasi Roy pada Anak Dengan Ruam Popok. *Jurnal Keperawatan Silampari*, 6(2), 1983–1993. <https://doi.org/https://doi.org/10.31539/jks.v6i2.5919>
- Jatmiko, S. A., & Tarwoto. (2024). *Senam Kaki sebagai upaya peningkatan Ankle*

- Brachial Index (ABI) Pada Pasien Diabetes Melitus Tipe 2: Laporan Kasus The Application of Foot Exercise Increases Ankle Brachial Values Index (ABI) in Type 2 Diabetes Mellitus Patients at Fatmawati General.* 4, 42–49. <https://doi.org/10.36082/jhcn.v4i1.1650>
- Jende, J. M. E., Mooshage, C., Kender, Z., Schimpfle, L., Juerchott, A., Heiland, S., Nawroth, P., Bendszus, M., Kopf, S., & Kurz, F. T. (2022). *Sciatic nerve microvascular permeability in type 2 diabetes decreased in patients with neuropathy.* *m*, 830–840. <https://doi.org/10.1002/acn3.51563>
- Kang, E., & Hwang, H. J. (2023). *The Importance of Anonymity and Confidentiality for Conducting Survey Research.* 1, 1–7.
- Kemenkes RI. (2022). *Profil Kesehatan Indonesia. Kementerian Kesehatan Republik Indonesia, Jakarta.*
- Koerniawan, D., & Frisca, S. (2023). Hiperglikemia sebagai prediktor kondisi kaki pada pasien Diabetes Mellitus. *Jurnal Anestesi L Jurnal Ilmu Kesehatan Dan Kedokteran*, 1(2), 94–102. *Jurnal Anestesi L Jurnal Ilmu Kesehatan Dan Kedokteran*, 1(2), 94–102.
- Laili, D., & Nursanti, I. (2024). *Model Konsep Teori Adaptasi Callista Roy pada Asuhan Keperawatan dengan Anorexia Nervosa.* 3(8), 108–123.
- Lesmana, F. D., & Silvitasari, I. (2025). Penerapan Senam Kaki Diabetik terhadap Nilai Ankle Brachial Index (ABI) pada Diabetes Mellitus (DM) Tipe 2 untuk Mencegah Ulkus Kaki. *Jurnal Ilmu Kesehatan*, 4(8). <http://eprints.poltekkesjogja.ac.id/5605/>
- McGuire, D., Gotlib, A., & King, J. (2025). *Capillary Refill Time* (National Library of Medicine (ed.)). StatPearls Publishing.
- Nicolas, S. E., & Despi, D. E. (2026). *Voices of Victory : Alternative Learning Sytem (Als) Graduates Speak Truth to Struggle.* 8(1), 1–36.
- Nora, P., Gultom, N., Harahap, F., Edi, S., & Sipahutar, H. (2025). *Hubungan Antara Jenis Kelamin dan Usia pada Penyakit Diabetes Melitus di Puskesmas Kota Medan Tahun 2024-2025.* 14(1), 142–150. <https://doi.org/10.56013/bio.v14i1.3960>
- Nugroho, A. D. S., & Rosyid, F. N. (2026). The Effect of Buerger Allen Exercise on Peripheral Tissue Perfusion in Patients with Type 2 Diabetes Mellitus: A Literature Review. *Jurnal Komprehensif Keperawatan*, 12(1). <https://doi.org/https://doi.org/10.33755/jkk.v12i1.945>
- Nuraini, Rahmania, S., Haerani, B., Latipah, S., Yoyoh, I., Umara, A. F., Deswita, R., & Wibisana, E. (2023). *Booklet Buerger Allen Exercise.* *Fakultas Ilmu Kesehatan, Universitas Muhammadiyah Tangerang*, 11(6), 6.
- Nurjanah, C. Al, Aini, N., Herliyanti, D. R., Nuradini, Diel, M. M., Haeriyah, S., Kusumastuti, N. A., Marsepa, E., & Imanuddin, B. (2024). *Pemberdayaan Masyarakat dalam Menurunkan Kadar Gula Darah dengan Buerger Allen Exercise pada Pasien Diabetes Melitus.* 8(3), 365–376.
- Palacios, L., Tardaguila, A., Alvaro-afonso, F., García-oreja, S., Tejeda-ramírez, S., & Lazaro, J. L. (2025). *Effect of physical activity on tissue perfusion in patients with diabetes mellitus: Systematic review and meta-analysis.* 34(January). <https://doi.org/10.1016/j.jtv.2025.100855>
- Permatasari, E. D., Rakhman, A., Widodo, Y. P., Setyaningrum, I., & Hidayat, F. (2025). Impact Of Buerger Allen Exercise on Ankle Brachial Index In Type II Diabeets Mellitus Patient. *Nursing Journal*, 10(1), 1–7.

- Pramidyastuti, C. H., & Theresia, S. I. M. (2024). Penerapan Senam Kaki Untuk Mengatasi Penurunan Perfusi Perifer Pada Pasien Diabetes Mellitus: Studi Kasus. *Jurnal Keperawatan Notokusumo*, 12(1), 28–35.
- Prasetyo, Y., & Bakri, B. (2026). Pengaruh Senam Kaki terhadap Penurunan Kadar Gula Darah pada Penderita Diabetes Melitus Tipe 2 di Puskesmas Kartasura. *Jurnal Keperawatan Indonesia*, 1(1), 115–122.
- Prihantoro, W., & Aini, D. A. (2022). Penerapan Senam Kaki Diabetes Terhadap Nilai Kadar Gula Darah Pada Penderita Diabetes Mellitus di Kel. Krapyak Kec. Semarang Barat Kota Semarang. *Jurnal Ilmu Dan Teknologi Kesehatan Universitas Widya Husada*, 27(2), 58–66.
- Radhika, J., Poomalai, G., Nalini, S. J., & Revathi, R. (2021). Efektifitas latihan Buerger allen exercise terhadap perfusiektremitas bawah dan gejala neuropati perifer pada pasien diabetes melitus. *Iranian Journal of Nursing and Midwifery Research*, 25(4), 291–295. <https://doi.org/10.4103/ijnmr.IJNMR>
- Ramadhani, F. A., & Cahyati, W. H. (2023). *Type 2 Diabetes Mellitus (Case Study at Insan Rizkillah Clinic)*. 2(1), 247–254.
- Ramdani, V. (2026). *Gambaran Perilaku Perawatan Kaki dan Nilai Abi Pada Penderita Diabetes Mellitus di Puskesmas Gambirsari*. 2(1), 1088–1099.
- Rodrigues, C. B., Soares, P. N. C., Schmitt, A. C. B., & Sacco, I. C. N. (2024). Implementing a contextually appropriate foot-ankle exercise programme in primary care for the prevention of modifiable risk factors for ulcers in people with diabetes: protocol for a hybrid type 2 study. *BMJ Open*, 14(2), 1–10. <https://doi.org/10.1136/bmjopen-2023-078958>
- Salihun, S., Idris, I., & Ariyandy, A. (2023). Perbandingan Efektivitas BAEdengan Senam Kaki Terhadap Sirkulasi Darah Perifer dan Kadar Glukosa Darah pada Penderita Diabetes Melitus Tipe 2. *Jurnal Kesehatan*, 16(1), 37–42.
- Saputri, S. S., Minarningtyas, A., & Puspitasari, I. (2023). Penerapan Buerger Allen Exercise terhadap Nilai Capillary Refill Time (CRT) pada Klien Diabetes Melitus Tipe 2. *Jurnal Gema Keperawatan*, 16(1), 99–110. <https://doi.org/10.33992/jgk.v16i1.2411>
- Setianto, A., Maria, L., & Firdaus, A. D. (2023). Faktor yang Mempengaruhi Ketidakstabilan Kadar Glukosa Darah Penderita Diabetes Mellitus Usia Dewasa Dan Lansia. *Jurnal Ilmiah Kesehatan Media Husada*, 12(2), 98–106.
- Shariatpanahi, S., Farahani, M. A., Rafii, F., Rassouli, M., & Tehrani, F. J. (2020). *Application of Roy adaptation model on adherence to treatment in patients with heart failure*.
- Sirait, R. H. (2020). Buku Ajar Pemantauan Hemodinamik. In *Fk Uki*. <http://repository.uki.ac.id/3000/1/BukuAjarPEMANTAUANHEMODINAMIK.pdf>
- Smeltzer, S. . (2019). *Handbook For Brunner & Suddarth's Textbook of Medical Surgical Nursing, 12th Ed*. Lippincott Williams & Wilkins Kluwer Health.
- Sofuoglu, Z., Baysan, C., Yavaş, S. P., Karaali, R., & Kılınç, E. (2025). *Capillary refill time as a bedside perfusion indicator : associations with vital signs and triage acuity in the emergency department : a cross-sectional study*.
- Sugiyono, P. D. (2023). *Metode Penelitian Kuantitatif, Kualitatif dan R&D* (M. Dr. Ir. Sutopo. S.Pd (ed.)). ALFABETA, cv.
- Suprasno, L., Purnomo, H., Mudhofar, M. N., & Oktalina, R. R. (2023). *Efektivitas Teknik Elevasi Ekstremitas Bawah dalam Proses Pemulihan Ketidakefektifan*

Perfusi Jaringan Pada Ulkus Diabetikum.

- Susana, Fitri, N., & Faizal, M. (2025). *Implementation of Buerger Allen Exercises on Foot Sensitivity in Patients with Diabetes Mellitus*. 7(1), 239–245.
- Suyono, S., Wapadji, S., Soegondo, S., Pradana, Imam, S., Gatut, S., Tri, & Jose, R. L. (2015). *Penatalaksanaan Diabetes Mellitus Terpadu*. Balai Penerbit FKUI.
- Tao, Y., Zhang, H. Y., Macgilchrist, C., Kirwan, E., & McIntosh, C. (2025). Diabetes Research and Clinical Practice Prevalence and risk factors of painful diabetic neuropathy: A systematic review and meta-analysis. *Diabetes Research and Clinical Practice*, 222(February), 112099. <https://doi.org/10.1016/j.diabres.2025.112099>
- Tauraginskii, R. A., Lurie, F., & Simakov, S. (2023). Calf muscle pump pressure-flow cycle during ambulation. *Journal of Vascular Surgery*, 11(4), 783-792.e7. <https://doi.org/10.1016/j.jvsv.2023.04.002>
- Thakur, S. (2024). Effectiveness of Buerger-Allen Exercises in Improving Lower Extremity Perfusion Among Patients With Type-2 Diabetes Mellitus: a Randomized Controlled Trial in Punjab, India. *Journal of Population Therapeutics and Clinical Pharmacology*, 32(08), 1–10. <https://doi.org/10.53555/4knb5e65>
- Umar, R. B., & Rizki, Z. (2024). International Journal of Health Sciences (IJHS) International Journal of Health Sciences (IJHS). *International Journal of Health Sciences (IJHS)*, 2, 705–715.
- Wang, X., Zhang, Q., Shao, J., & Ye, Z. (2020). *Conceptualisation and measurement of adaptation within the Roy adaptation model in chronic care: a scoping review protocol*. 1–7. <https://doi.org/10.1136/bmjopen-2019-036546>
- WHO. (2023). *Diabetes*. World Health Organization. <https://www.who.int/health-topics/diabetes>
- Wijayanti, D. R., & Warsono, W. (2022). *Penerapan buerger allen exercise meningkatkan perfusi perifer pada penderita diabetes melitus tipe II*. 2045.
- Wiyono, J., Putri, D. C., Hidayah, N., & Ciptaningtyas, M. D. (2025). *The Effect Of Diabetic Foot Exercise Using a Plastic Ball On Diabetic Neuropathy And Capillary Refill Time In People With Diabetes*. 11(August), 222–229.
- Yammar, Wardani, R., Prasetyo, J., & Darwis, N. (2026). *The Effectiveness of Buerger Allen Exercise and Hydrotherapy on Changes in Peripheral Blood Circulation and Neuropathic Pain Intensity in Preventing Diabetes Mellitus Complications in the Elderly*. 9(3), 519–531.
- Yuda, A., Humaeroh, A., Sari, R. P., Muliah, S., Makhfiroh, S., Nurfalyya, T., Damayanti, W., Rusmiayunita, S., Al Jahra, Z., Ananda, T., Dianti, R., Kholifah, S., Pendidikan, M., Ners, P., Madani, Y., Pendidikan, D., & Madani, U. Y. (2025). Pengaruh Senam Kaki Diabetes Terhadap Penurunan Kadar Gula Darah Sewaktu Pada Penderita Diabetes Melitus Tipe II. *Gudang Jurnal Ilmu Kesehatan*, 3(2), 55–57.
- Yulianto, D. A., Sudirman, & Ramlan, D. (2023). Buku Panduan Kombinasi Buerger Allen Exercise dan Spa Terhadap Ankle Brachial Index Pada DM Tipe II. *PoltekNIK Kesehatan Kemenkes Semarang*, 22–24. <https://repository.kemkes.go.id/book/218>
- Zakiudin, A., Irianto, G., Badrujamaludin, A., Rumahorbo, H., & Susilawati, S.

(2022). Foot Exercise to Overcome Type 2 Diabetes Mellitus: A literature Review. *International Journal of Nursing Information*, 1(1), 24–31. <https://doi.org/10.58418/ijni.v1i1.10>

