

## DAFTAR PUSTAKA

- Ágnes, A., György, M., Nádasz, L., Dörnyei, G., Bettina, B., Jordan, P., Gábor, D., Fülöp, Á., Kirkpatrick, A. C., Ungvári, Z., & Merkely, B. (2021). The aging venous system: from varicosities to vascular cognitive impairment. *GeroScience*, 2761–2784. <https://doi.org/10.1007/s11357-021-00475-2>
- Akay, H. T., Yavas, S., Uguz, E., Sirlak, M., & Ozcinar, E. (2024). Risk factors for chronic venous insufficiency in nurses in Türkiye - *NueVo TR*. 33(1), 1–9. <https://doi.org/10.9739/tjvs.2023.11.033>
- Alkhateep, Y., Zaid, N., & Fareed, A. (2018). Negative pressure wound therapy for chronic venous ulcer: a randomized-controlled study. 1110–1121. <https://doi.org/10.4103/ejs.ejs>
- Almeida, S. A. De, Teresa, M., Pereira, D. J., Massahud, M. R., Naira, C., Moreira, D. O., & Jose, M. (2016). The Impact of Venous Leg Ulcers on Body Image and Self-esteem. 29(7), 316–321.
- Amalia, A., & Suardiana, I. K. (2025). the Role of Pharmacoeconomics in Determining Treatment Selection in Indonesia: a Scoping Review. *Journal of Pharmaceutical Science and Application*, 7(1), 40–50. <https://doi.org/10.24843/jpsa.2025.v07.i01.p05>
- Avcı Işık, S., Budak Ertürk, E., Akay, H. T., Karahan, A., Akpınar, D., & Karşlıoğlu, A. O. (2024). Analysis of Venous Insufficiency Risk Factors and Demographic Characteristics among Nurses: An Analytical Cross-Sectional Study. *Medicina (Lithuania)*, 60(9), 0–11. <https://doi.org/10.3390/medicina60091498>
- Azar, J., Rao, A., & Oropallo, A. (2022). Chronic venous insufficiency: a comprehensive review of management. *Journal of Wound Care*, 31(6), 510–519. <https://doi.org/10.12968/jowc.2022.31.6.510>

- Azizah, S., Yuwindry, I., Ikeh, T. S. D., & Melviani, M. (2024). Cost Minimization Analysis (CMA) Penggunaan Obat Amlodipine Dan Captopril Pada Pasien Hipertensi di RSUD Sultan Suriansyah Banjarmasin. *Journal Pharmaceutical Care and Sciences*, 5(1), 93–100. <https://doi.org/10.33859/jpcs.v5i1.660>
- Barnsbee, L., Cheng, Q., Tulleners, R., Lee, X., Brain, D., & Pacella, R. (2019). Measuring costs and quality of life for venous leg ulcers. *International Wound Journal*, 16(1), 112–121. <https://doi.org/10.1111/iwj.13000>
- Carlos, A., Castro, F. De, Barbosa, A. V., Lima, D. F., & Carneiro, S. R. (n.d.). *Review Article s Systematic review and meta-analysis of the impact of diabetes mellitus on chronic venous insufficiency. 7301.*
- Cheng, C. (2022). Risk of new onset major depressive disorder among patients with varicose veins : A multi-institution database study. *Journal of Psychosomatic Research*, 161(August), 111003. <https://doi.org/10.1016/j.jpsychores.2022.111003>
- De Maeseneer, M. G., Kakkos, S. K., Aherne, T., Baekgaard, N., Black, S., Blomgren, L., Giannoukas, A., Gohel, M., de Graaf, R., Hamel-Desnos, C., Jawien, A., Jaworucka-Kaczorowska, A., Lattimer, C. R., Mosti, G., Noppeney, T., van Rijn, M. J., Stansby, G., ESVS Guidelines Committee, Kolh, P., ... Vuylsteke, M. E. (2022). Editor's Choice – European Society for Vascular Surgery (ESVS) 2022 Clinical Practice Guidelines on the Management of Chronic Venous Disease of the Lower Limbs. *European Journal of Vascular and Endovascular Surgery*, 63(2), 184–267. <https://doi.org/10.1016/j.ejvs.2021.12.024>
- Deol, Z. K., Lakhanpal, S., Franzon, G., & Pappas, P. J. (2020). Effect of obesity on chronic venous insufficiency treatment outcomes. *Journal of Vascular Surgery: Venous and Lymphatic Disorders*, 8(4), 617-628.e1. <https://doi.org/10.1016/j.jvsv.2020.04.006>
- Dewi, E., Sari, P., Budi, S., & Rizkhy, I. (2023). *ANALISIS BIAYA DAN KUALITAS HIDUP PASIEN RAWAT JALAN DM TIPE 2 DENGAN TERAPI GLIQUIDONE DIBANDINGKAN GLIMEPIRIDE DI RSUD SURAKARTA*

TAHUN 2021. 11(2), 49–53.

- Dewi Purnami, I., Rulin Dewi Nugrahaeni, A., & Khasanah, U. (2023). Analisis Efektivitas Biaya Terapi Enoxaparin dan Fondaparinux Pada Pasien Jantung N-STEMI Rawat Inap di RSD K.R.M.T. Wongsonegoro. *J. Med. Pharm. Sci.*, 2(1), 21–26. <https://doi.org/10.30659/ijmps.v2i1.114>
- Epstein, D., Bootun, R., Diop, M., Ortega-Ortega, M., Lane, T. R. A., & Davies, A. H. (2022). Cost-effectiveness analysis of current varicose veins treatments. *Journal of Vascular Surgery: Venous and Lymphatic Disorders*, 10(2), 504–513.e7. <https://doi.org/10.1016/j.jvsv.2021.05.014>
- Gourraj, S., Shastri, S. M., & Anantha, B. P. (2023). Comparative study on outcome of surgical management of varicose veins with and without great saphenous vein stripping. *International Surgery Journal*, 10(4), 620–624. <https://doi.org/10.22376/ijpbs.2023.14.3.b17-24>
- Güneş, S., Şehim, K., Cüneyt, K., Gökmen, D., & Küçükdeveci, A. A. (2020). *Is there a relationship between venous insufficiency and knee osteoarthritis?* 66(1), 40–46. <https://doi.org/10.5606/tftrd.2020.5110>
- Hageman, D., Fokkenrood, H. J. P., van Deursen, B. A. C., Gommans, L. N. M., Cancrinus, E., Scheltinga, M. R. M., & Teijink, J. A. W. (2020). Randomized controlled trial of vacuum therapy for intermittent claudication. *Journal of Vascular Surgery*, 71(5), 1692–1701.e1. <https://doi.org/10.1016/j.jvs.2019.08.239>
- IRANI, A., GERA, K., SAWAL, R. R., DOCTOR, A., SINGH, P., & MEHTA, H. (2024). Efficacy of Intermittent Vacuum Therapy As an Adjunct To Conventional Physiotherapy Treatment in Patients With Knee Osteoarthritis. *International Journal of Current Pharmaceutical Research*, 16(4), 129–131. <https://doi.org/10.22159/ijcpr.2024v16i4.5036>
- Janssen, B. (2015). *EQ-5D-5L User Guide*. April.
- Jarošíková, R., Roztočil, K., Husáková, J., Dubský, M., Bém, R., Wosková, V., & Fejfarová, V. (2023). *Chronic Venous Disease and Its Intersections With*

*Diabetes Mellitus*. 1(Table 1), 280–286.

- Javier, J. J., & Ortiz, P. (2020). Treatment of chronic venous insufficiency in Latin America. *Journal of Vascular Surgery: Venous and Lymphatic Disorders*, 8(4), 667–675. <https://doi.org/10.1016/j.jvsv.2020.01.012>
- Kartika, R. (2015). TINJAUAN PUSTAKA : Gangguan Vena Menahun. *Cdk - 224*, 2(1), 36–41.
- Ketteler, E., Cavanagh, S. L., Gifford, E., Grunebach, H., Joshi, G. P., Katwala, P., Kwon, J., McCoy, S., McGinagle, K. L., Schwenk, E. S., Shutze, W. P., Vaglianti, R. M., & Rossi, P. (2025). The Society for Vascular Surgery expert consensus statement on pain management for vascular surgery diseases and interventions. *Journal of Vascular Surgery*, 82(1), 1-31.e2. <https://doi.org/10.1016/j.jvs.2025.03.189>
- Łastowiecka-moras, E. (2021). *Standing and sitting postures at work and symptoms of venous insufficiency – results from questionnaires and a Doppler ultrasound study questionnaires and a Doppler ultrasound study*. 3548. <https://doi.org/10.1080/10803548.2020.1834232>
- Lim, E. Q., Jun, A., Lim, K., & Twomey, A. (2025). *BMC Surgery Article in Press Clinical effectiveness and patient-reported outcomes of endovenous ablation and surgical stripping in varicose vein management : a systematic review IN AR IN*.
- Lin, C., Chung, C., Chen, L., & Chien, W. (2019). Increased risk for venous thromboembolism among patients with concurrent depressive , bipolar , and schizophrenic disorders ☆. *General Hospital Psychiatry*, 61(October), 34–40. <https://doi.org/10.1016/j.genhosppsy.2019.10.003>
- Lorensia, A., De Queljoe, D., & Swari Santi, M. D. (2019). Cost-Effectiveness Analysis Kloramfenikol Dan Seftriakson Untuk Pengobatan Demam Tifoid Pada Pasien Dewasa Di Rumah Sakit Sanglah Denpasar. *MPI (Media Pharmaceutica Indonesiana)*, 2(2), 105–112. <https://doi.org/10.24123/mpi.v2i2.1391>

- Lurie, F., Passman, M., Meisner, M., Dalsing, M., Masuda, E., Welch, H., Bush, R. L., Blebea, J., Carpentier, P. H., De Maeseneer, M., Gasparis, A., Labropoulos, N., Marston, W. A., Rafetto, J., Santiago, F., Shortell, C., Uhl, J. F., Urbanek, T., van Rij, A., ... Wakefield, T. (2020). The 2020 update of the CEAP classification system and reporting standards. *Journal of Vascular Surgery: Venous and Lymphatic Disorders*, 8(3), 342–352. <https://doi.org/10.1016/j.jvsv.2019.12.075>
- Mansilha, A., & Sousa, J. (2018). Pathophysiological mechanisms of chronic venous disease and implications for venoactive drug therapy. *International Journal of Molecular Sciences*, 19(6), 1–21. <https://doi.org/10.3390/ijms19061669>
- Mayrovitz, H. N., Aoki, K. C., & Colon, J. (2023). *Chronic Venous Insufficiency With Emphasis on the Geriatric Population*. 15(6). <https://doi.org/10.7759/cureus.40687>
- Nelzén, O., Skoog, J., Bernfort, L., & Zachrisson, H. (2024). Editor's Choice – Short Term Cost Effectiveness of Radiofrequency Ablation and High Ligation and Stripping for Great Saphenous Vein Incompetence. *European Journal of Vascular and Endovascular Surgery*, 67(5), 811–817. <https://doi.org/10.1016/j.ejvs.2024.01.085>
- Oliveira. (2022). *The presence of anemia in patients with leg ulcer : laboratory test*. 75(1), 1–6.
- Orhurhu, V., Chu, R., Xie, K., Kamanyi, G. N., Hasoon, J., Viswanath, O., Kaye, A. J., Karri, J., Marshall, Z., Kaye, A. D., & Anahita, D. (2021). Management of Lower Extremity Pain from Chronic Venous Insufficiency: A Comprehensive Review. *Cardiology and Therapy*, 10(1), 111–140. <https://doi.org/10.1007/s40119-021-00213-x>
- Oropallo, A., Landis, G., Rao, A., Ann, J., Liu, F., Surgery, V., & First, T. (2019). *Healing Rates of Lower Extremity Ulceration After Ultrasound-Guided Foam Sclerotherapy as an Adjunct to Radiofrequency Ablation Midterm Outcome of Pharmacomechanical Catheter-Directed Thrombolysis Combined With*

*Stenting for Treatment of Iliac Vein Compression Syndrome With Acute Hyperhomocysteinemia : A Risk Factor or Predictor of Severity in Primary Chronic Venous Disease and Compression Versus Compression Alone in Nonhealing Venous Ulcers : A Randomized Controlled Trial Clinical and Health Economic Outcomes of the Introduction of Single-Use Negative Pressure Wound Therapy for Vascular Patients Within The Netherlands Effect of Treated Length in Endovenous Laser Ablation of Great Saphenous Vein on Early Outcomes.* 70(5), 4–5. <https://doi.org/10.1016/j.jvs.2019.08.148>

Ortega, M. A., Fraile-Martínez, O., García-Montero, C., Álvarez-Mon, M. A., Chaowen, C., Ruiz-Grande, F., Pekarek, L., Monserrat, J., Asúnsolo, A., García-Honduvilla, N., Álvarez-Mon, M., & Bujan, J. (2021). Understanding chronic venous disease: A critical overview of its pathophysiology and medical management. *Journal of Clinical Medicine*, 10(15), 1–42. <https://doi.org/10.3390/jcm10153239>

Ozalhas, T., Iu, A., Yeldan, I., S, G. K., & G, T. A. (2021). *The relationship between clinical severity and outcome measures in patients with chronic venous insufficiency with or without leg ulcer.* April 2020. <https://doi.org/10.1016/j.jtv.2021.06.002>

Prochaska, H., Arnold, N., Falcke, A., Kopp, S., Schulz, A., Buch, G., Moll, S., Panova-noeva, M., Eggebrecht, L., Pfeiffer, N., Beutel, M., Binder, H., Grabbe, S., Lackner, K. J., Cate-hoek, A., Espinola-klein, C., Mu, T., & Wild, P. S. (2021). *Chronic venous insufficiency , cardiovascular disease , and mortality : a population study.* 4157–4165. <https://doi.org/10.1093/eurheartj/ehab495>

Purnamawan, N., & Alim, S. D. (2023). *Evaluasi Tingkat Keparahan Chronic Venous Insufficiency ( Cvi ) Dengan Dopler Vaskuler Menggunakan Klasifikasi Clinical , Etiological Anatomical.* 03(1), 1–7.

Raffetto, J. D., & Khalil, R. A. (2021). *Mechanisms of lower extremity vein dysfunction in chronic venous disease and implications in management of varicose veins.* <https://doi.org/10.20517/2574-1209.2021.16>

- Río-solá, M. L. Del, & Cenizo-revuelta, N. (2025). The cardiovascular impact of chronic venous disease : A systematic review and meta-analysis. *Journal of Vascular Surgery: Venous and Lymphatic Disorders*, 14(1), 102310. <https://doi.org/10.1016/j.jvsv.2025.102310>
- Sabputra, R., Siregar, S. D., & Ginting, R. (2019). Faktor Yang Mempengaruhi Varises Vena Tungkai Bawah (Vvtb) Pada Guru Sekolah Dasar (Sd) Di Desa Securai Selatan Kecamatan Babalan Kabupaten Langkat Tahun 2019. *Jurnal Kesehatan Masyarakat & Gizi (Jkg)*, 2(1), 101–108. <https://doi.org/10.35451/jkg.v2i1.226>
- Santiago, F. R., Ulloa, J., Régnier, C., Peudon, T., Braund, E., Fradet-Aubignat, C., & Giancesini, S. (2022). The impact of lower limb chronic venous disease on quality of life: Patient and physician perspectives. *Journal of Comparative Effectiveness Research*, 11(11), 787–801. <https://doi.org/10.2217/ce-2022-0054>
- Santler, B., & Goerge, T. (2017). Chronic venous insufficiency – a review of pathophysiology, diagnosis, and treatment. *JDDG - Journal of the German Society of Dermatology*, 15(5), 538–556. <https://doi.org/10.1111/ddg.13242>
- Sierra-Juárez, M. A., Rejón-Cauich, J. E., Parada-Guzmán, M. G., & Castañeda-Morales, S. A. (2021). Chronic venous disease: Literature review. *Revista Médica Del Hospital General de México*, 84(2), 80–86. <https://doi.org/10.24875/hgmx.20000072>
- Sinaga, A. H., Anjani, A., Medan, U. I., Info, A., Analysis, C. E., Inj, C., & Inj, P. (2022). Cost Effectiveness Analysis ( Cea ) Penggunaan Golongan Obat Neuroprotektan Citicoline. *Jurnal Ilmiah Farmasi Imelda*, 5(2), 35–42.
- Sittimart, M., Rattanavipapong, W., Mirelman, A. J., Hung, T. M., Dabak, S., Downey, L. E., Jit, M., Teerawattananon, Y., & Turner, H. C. (2024). An overview of the perspectives used in health economic evaluations. *Cost Effectiveness and Resource Allocation*, 22(1), 1–13. <https://doi.org/10.1186/s12962-024-00552-1>
- Sujianto, A. E., & Fitria, L. (n.d.). *Exclusive Summary : Penentuan Produk*

*Domestik Bruto atau GDP ( Gross Domestic Product ) 3 Sektor.* 1–13.

Suprayoga, I. M., & Kurnianingsih, N. (2025). Technical procedure of endovenous laser ablation for chronic venous insufficiency. *Heart Science Journal*, 6(2), 26–33. <https://doi.org/10.21776/ub.hsj.2025.006.02.5>

Syabriyantini, S., Susanti, R., Farmasi, P. S., Kedokteran, F., & Tanjungpura, U. (2017). Sefotaksim Pada Pasien Anak Demam Tifoid. *Jurnal MKMI*, 13(2), 131–138. <https://media.neliti.com/media/publications/213167-efektivitas-biaya-penggunaan-ampisilin-d.pdf>

Tambunan, H. (2023). DOI: <http://dx.doi.org/10.33846/sf14nk209> Perbandingan Hasil Pemeriksaan Kadar Hemoglobin dengan Metode Sahli dan Metode Digital Herrywati Tambunan. 14(April), 41–43.

Taylor, J., Hicks, C. W., & Heller, J. A. (2018). The hemodynamic effects of pregnancy on the lower extremity venous system. *Journal of Vascular Surgery: Venous and Lymphatic Disorders*, 6(2), 246–255. <https://doi.org/10.1016/j.jvsv.2017.08.001>

Tonin, F. S., Aznar-Lou, I., Pontinha, V. M., Pontarolo, R., & Fernandez-Llimos, F. (2021). Principles of pharmacoeconomic analysis: The case of pharmacist-led interventions. *Pharmacy Practice*, 19(1), 1–10. <https://doi.org/10.18549/PharmPract.2021.1.2302>

Vuyksteke, M. E., Colman, R., Thomis, S., Degrande, E., & Staelens, I. (2015). *The influence of age and gender on venous symptomatology . An epidemiological survey in Belgium and Luxembourg.* 0(0), 1–9. <https://doi.org/10.1177/0268355515589224>

Wiradana, A. A. G. A. A. A., Ganesini, S., Doganci, S., Wibawa, I. G. A. B. K., Budiarta, I. B., Irfan, W., Pratama, D., Yuana, I. K. W., Wibawa, P. C., & Nuraga, G. N. J. (2025). The characteristics of chronic venous insufficiency cases in Bali: a screening of five public health centers. *Intisari Sains Medis*, 16(1), 310–314. <https://doi.org/10.15562/ism.v16i1.2327>

(WHOQOL). (1993). *Quality of Life Research : An International Journal of Quality*

*of Life Aspects of Treatment, Care and Rehabilitation, 2(2), 153–159.*

Wołkowski, K., & Wołkowski, M. (2020). *Venous Thromboembolism Prophylaxis and Thrombotic Risk Stratification in the Varicose Veins Surgery — Prospective Observational Study.*

