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DAFTAR PUSTAKA

Aeddula., S. R. V. N. R. (n.d.). *Chronic Kidney Disease*. StatPearls Publishing LLC.

Altamura, S., Pietropaoli, D., Lombardi, F., Del Pinto, R., & Ferri, C. (2023). An Overview of Chronic Kidney Disease Pathophysiology: The Impact of Gut Dysbiosis and Oral Disease. *Biomedicines*, *11*(11), 1–29. https://doi.org/10.3390/biomedicines11113033

Ammirati, A. L. (2020). Chronic kidney disease. *Revista Da Associacao Medica Brasileira*, *66*(Suppl 1), 3–9. https://doi.org/10.1590/1806-9282.66.S1.3

Anjum., H. N. M. F. (n.d.). *Hemodialysis*. StatPearls Publishing LLC.

Brunoni, A. R., Kemp, A. H., Dantas, E. M., Goulart, A. C., Nunes, M. A., Boggio, P. S., Mill, J. G., Lotufo, P. A., Fregni, F., & Benseñor, I. M. (2013). Heart rate variability is a trait marker of major depressive disorder: Evidence from the sertraline vs electric current therapy to treat depression clinical study. *International Journal of Neuropsychopharmacology*, *16*(9), 1937–1949. https://doi.org/10.1017/S1461145713000497

Constantinescu, V., Matei, D., Ignat, B., Hodorog, D., & Cuciureanu, D. I. (2020). Heart Rate Variability Analysis. *The Neurologist*, *25*(3), 49–54. https://doi.org/10.1097/nrl.0000000000000270

D'Oro, A., Patel, D. H., Wass, S., Dolber, T., Nasir, K., Dobre, M., Rahman, M., & Al-Kindi, S. (2023). Depression and incident cardiovascular disease among patients with chronic kidney disease. *International Journal of Cardiology: Cardiovascular Risk and Prevention*, *18*(May), 200199. https://doi.org/10.1016/j.ijcrp.2023.200199

Dell'Acqua, C., Dal Bò, E., Messerotti Benvenuti, S., & Palomba, D. (2020). Reduced heart rate variability is associated with vulnerability to depression. *Journal of Affective Disorders Reports*, *1*(September), 100006. https://doi.org/10.1016/j.jadr.2020.100006

Desa Tanggeran, D. I., Sruweng, K., Tulis, K., Ini, I., Sebagai, D., Satu, S., Menyelesaikan, P., Pendidikan, P., Progam, K., & Tiga, D. (2020). *Halaman Judul Penerapan Intervensi Menghisap Ice Cube Terhadap Penurunan Intensitas Skala Haus Pada Pasien Chronic Kidney Disease Yang Menjalani Hemodialisa*.

E. Mudjaddid, Edward Faisal, Hamzah Shatri, Mizanul Adli, Muhadi,, Rudi Putranto, Vera Abdullah, V. I. P. (2025). *Penggunaan Variabilitas Denyut Jantung pada Praktek Klinik Psikosomatik dan Paliatif* (H. S. R. P. E. F. V. I. POESPITASARI (ed.)). PIPInterna.

Frey, B. B. (2018). Diagnostic and Statistical Manual of Mental Disorders. In A. P. Association (Ed.), *The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation* (FIFTH EDIT). British Library Cataloguing in Publication Data. https://doi.org/10.4135/9781506326139.n198

G Vita 1, V Savica, L Marabello, R M Puglisi, S Serra, R Musolino, G. B. (n.d.). Occurrence of uraemic autonomic dysfunction in relation to age. *Wiley*. https://doi.org/https://doi.org/10.1111/j.1600-0404.1987.tb03604.x

Greenberg, K. I., & Choi, M. J. (2021). Hemodialysis Emergencies: Core Curriculum 2021. *American Journal of Kidney Diseases*, *77*(5), 796–809.

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https://doi.org/10.1053/j.ajkd.2020.11.024

Gullett, N., Zajkowska, Z., Walsh, A., Harper, R., & Mondelli, V. (2023). Heart rate variability (HRV) as a way to understand associations between the autonomic nervous system (ANS) and affective states: A critical review of the literature. *International Journal of Psychophysiology*, *192*(April 2022), 35–42. https://doi.org/10.1016/j.ijpsycho.2023.08.001

Hartmann, R., Schmidt, F. M., Sander, C., & Hegerl, U. (2019). Heart rate variability as indicator of clinical state in depression. *Frontiers in Psychiatry*, *10*(JAN), 1–8. https://doi.org/10.3389/fpsyt.2018.00735

Health, N. I. of M. (n.d.). *Depression*. https://www.nimh.nih.gov/health/topics/depression

Hui Juan Ng, Wei Jie Tan, Nandakumar Mooppil, Stanton Newman, K. G. (n.d.). Prevalence and patterns of depression and anxiety in hemodialysis patients: A 12-month prospective study on incident and prevalent populations. *Wiley*. https://doi.org/https://doi.org/10.1111/bjhp.12106

Jan, H. Y., Chen, M. F., Fu, T. C., Lin, W. C., Tsai, C. L., & Lin, K. P. (2019). Evaluation of Coherence Between ECG and PPG Derived Parameters on Heart Rate Variability and Respiration in Healthy Volunteers With/Without Controlled Breathing. *Journal of Medical and Biological Engineering*, *39*(5), 783–795. https://doi.org/10.1007/s40846-019-00468-9

Jangpangi, D., Mondal, S., Bandhu, R., Kataria, D., & Gandhi, A. (2016). Alteration of heart rate variability in patients of depression. *Journal of Clinical and Diagnostic Research*, *10*(12), CM04–CM06. https://doi.org/10.7860/JCDR/2016/22882.9063

Kementerian Kesehatan. (2023). Pedoman Nasional Pelayanan Kedokteran Tata Laksana Penyakit Ginjal Kronik. *Keputusan Menteri Kesehatan Republik Indonesia*, *11*, 1–189. https://www.kemkes.go.id/id/pnpk-2023---tata-laksana-penyakit-ginjal-kronik

Ku, E., Lee, B. J., Wei, J., & Weir, M. R. (2019). Hypertension in CKD: Core Curriculum 2019. *American Journal of Kidney Diseases*, *74*(1), 120–131. https://doi.org/10.1053/j.ajkd.2018.12.044

Lameire, N. H., Levin, A., Kellum, J. A., Cheung, M., Jadoul, M., Winkelmayer, W. C., Stevens, P. E., Caskey, F. J., Farmer, C. K. T., Ferreiro Fuentes, A., Fukagawa, M., Goldstein, S. L., Igiraneza, G., Kribben, A., Lerma, E. V., Levey, A. S., Liu, K. D., Małyszko, J., Ostermann, M., … Srisawat, N. (2021). Harmonizing acute and chronic kidney disease definition and classification: report of a Kidney Disease: Improving Global Outcomes (KDIGO) Consensus Conference. *Kidney International*, *100*(3), 516–526. https://doi.org/10.1016/j.kint.2021.06.028

Lundström, A., Eliasson, H., Karlsson, M., Wiklund, U., & Rydberg, A. (2024). Holter study of heart rate variability in children and adolescents with long QT syndrome. *Annals of Noninvasive Electrocardiology*, *29*(4), 1–11. https://doi.org/10.1111/anec.13132

Ma, S. J., Wang, W. J., Tang, M., Chen, H., & Ding, F. (2021). Mental health status and quality of life in patients with end-stage renal disease undergoing maintenance hemodialysis. *Annals of Palliative Medicine*, *10*(6), 6112–6121.

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https://doi.org/10.21037/apm-20-2211

Mary E. Kelley, Claire Ramsay Wan, Beth Broussard, Anthony Crisafio, Sarah Cristofaro, Stephanie Johnson, T. A. R. (2016). 乳鼠心肌提取 HHS Public Access. *Schizophrenia Research*, *171*(1–3), 62–67. https://doi.org/10.1016/j.jad.2014.10.010.Depression

Medik, D. K. R. . D. J. P. (1993). *Pedoman Penggolongan dan Diagnosis Gangguan Jiwa di Indonesia III* (D. K. RI (ed.); Pertama).

Pittenger, C., & Duman, R. S. (2008). Stress, depression, and neuroplasticity: A convergence of mechanisms. *Neuropsychopharmacology*, *33*(1), 88–109. https://doi.org/10.1038/sj.npp.1301574

Reyes del Paso, G. A., Langewitz, W., Mulder, L. J. M., van Roon, A., & Duschek, S. (2013). The utility of low frequency heart rate variability as an index of sympathetic cardiac tone: A review with emphasis on a reanalysis of previous studies. *Psychophysiology*, *50*(5), 477–487. https://doi.org/10.1111/psyp.12027

Saveanu, R. V., & Nemeroff, C. B. (2012). Etiology of Depression: Genetic and Environmental Factors. *Psychiatric Clinics of North America*, *35*(1), 51–71. https://doi.org/10.1016/j.psc.2011.12.001

Shaffer, F., & Ginsberg, J. P. (2017). An Overview of Heart Rate Variability Metrics and Norms. *Frontiers in Public Health*, *5*(September), 1–17. https://doi.org/10.3389/fpubh.2017.00258

Stanwell-Smith, R. (2004). Foundations of health psychology. In *Public Health* (Vol. 118, Issue 2). https://doi.org/10.1016/s0033-3506(03)00149-5

Sun, G., Shinba, T., Kirimoto, T., & Matsui, T. (2016). An objective screening method for major depressive disorder using logistic regression analysis of heart rate variability data obtained in a mental task paradigm. *Frontiers in Psychiatry*, *7*(NOV), 1–7. https://doi.org/10.3389/fpsyt.2016.00180

Timur, R. H. P. J. (2024). *WEBINAR MANAJEMEN PASIEN DENGAN GAGAL GINJAL*. https://lms.kemkes.go.id/courses/57a9c2b7-50c4-4e07-b3ee-d1eba5689124

Tiwari, R., Kumar, R., Malik, S., Raj, T., & Kumar, P. (2021). Analysis of Heart Rate Variability and Implication of Different Factors on Heart Rate Variability. *Current Cardiology Reviews*, *17*(5), 1–10. https://doi.org/10.2174/1573403x16999201231203854

Udupa, K., Sathyaprabha, T. N., Thirthalli, J., Kishore, K. R., Lavekar, G. S., Raju, T. R., & Gangadhar, B. N. (2007). Alteration of cardiac autonomic functions in patients with major depression: A study using heart rate variability measures. *Journal of Affective Disorders*, *100*(1–3), 137–141. https://doi.org/10.1016/j.jad.2006.10.007

WHO. (n.d.). *Depression*. https://www.who.int/health-topics/depression#tab=tab_1

Y., W., X., Z., A., O., A., T., X., L., & M., B. (2013). Altered cardiac autonomic nervous function in depression. *BMC Psychiatry*, *13*, 187. http://ovidsp.ovid.com/ovidweb.cgi?T=JS&PAGE=reference&D=emed12&NEWS=N&AN=23842138

Zhang, L. Y. Y. Z. A. B. Q. Y. W. L., Logo, O., & Fu, ; Tianlei Cui; Ping. (n.d.).

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Heart Rate Variability and Prognosis in Hemodialysis Patients: A Meta-Analysis. *Karger*(Nephrology). https://doi.org/https://doi.org/10.1159/000511723