

## DAFTAR PUSTAKA

1. Ahmed S, Kailas L, Nair RS. Relationship between serum zinc levels and febrile seizures: a hospital-based case control study. *Int J Contemp Pediatr.* 2025;12(6):905–911. doi: 10.18203/2349-3291.ijcp20251467.
2. Albar H, Bilondatu F, Daud D. Risk factors for relapse in pediatric nephrotic syndrome. *Paediatr Indones.* 2018;58(5):238-242. doi: 10.14238/pi58.5.2018.238-241.
3. Alwan AH, Al-Shammaa NMJ. Evaluation of the level of electrolytes in children with steroid-sensitive or steroid-resistant nephrotic syndrome. *J Fac Med Baghdad.* 2024;66(3):276-280. doi: 10.32007/jfacmedbaghdad.6632270.
4. Arun S, Bhatnagar S, Menon S, Saini S, Hari P, Bagga A. Efficacy of zinc supplements in reducing relapses in steroid-sensitive nephrotic syndrome. *Pediatr Nephrol.* 2009;24(8):1583–1586. doi: 10.1007/s00467-009-1170-5.
5. Barrett H, Rockwood Jananie, Wenegieme T, McMichael K, Hasrat K, Waite A, Nshuti A, Elased D, Williams C. Does zinc deficiency promote renal inflammation? *Physiology.* 2024;39(S1):S1127.
6. Bhatt GC, Jain S, Das RR. Zinc supplementation as an adjunct to standard therapy in childhood nephrotic syndrome - a systematic review. *World J Clin Pediatr.* 2016;5(4):383–390. doi: 10.5409/wjcp.v5.i4.383.
7. Boussetta A, Jellouli M, Brika M, Ferjani M, Hammi Y, Zarrouk C, Naija O, Gargah T. Outcome of childhood onset first episode of nephrotic syndrome. *Pediatr Oncall.* 2018;15(4):92–96. doi: 10.7199/ped.oncall.2018.53.
8. Brown KH, Wuehler SE. Zinc and human health: results of recent trials and implications for program interventions and research. Ottawa (Canada): International Development Research Centre (IDRC); 2002.
9. Chang JW, Tsai HL, Yang LY, Chen TJ. Epidemiology and predictors of end-stage renal disease in Taiwanese children with idiopathic nephrotic syndrome. *J Epidemiol.* 2012;22(6):517–522. doi: 10.2188/jea.JE20120033.



asta MM, Safira LDZ, Larassanti L, Amin MS, Adiwino RP. Clinical  
res in nephrotic syndrome patients: A case report. *J Indones Impressions.*  
4;3(1):31-32. doi: 10.58344/jii.v3i1.4438.

11. Doumbia AK, Simaga T, Dembélé A, Baldé MS, Diall HG, Togo P, Doumbia A, Maiga B, Sacko K, Diakité FL, Koné O, Coulibaly O, Ahamadou I, Cissé ME, Dembelé G, Traoré F, Konaré H, Touré A, Konaté D, Sidibé LN, Maiga L, Diakité AA, Togo B. Childhood Idiopathic Nephrotic Syndrome: A Single-Center Hospital Study. *Open J Pediatr.* 2022;12(5):832–840. doi: 10.4236/ojped.2022.125084.
12. Downie ML, Gallibois C, Parekh RS, Noone DG. Nephrotic syndrome in infants and children: pathophysiology and management. *Paediatr Int Child Health.* 2017;37(4):248–258. doi: 10.1080/20469047.2017.1374003.
13. El Bakkali L, Rodrigues Pereira R, Kuik DJ, Ket JCF, van Wijk JAE. Nephrotic syndrome in The Netherlands: a population-based cohort study and a review of the literature. *Pediatr Nephrol.* 2011;26(8):1241–1246. doi: 10.1007/s00467-011-1851-8.
14. Elsaeed GSM, Fadel F, El-Sonbaty MM, Wafaey H, Abdel-Monem MA, Abdelhamid I, et al. Zinc, copper and selenium in children with idiopathic nephrotic syndrome: Relationship to parathyroid hormone & proteinuria. *Curr Sci Int.* 2020;9(3):431–437. doi: 10.36632/csi/2020.9.3.37.
15. Fathah M, Heru M, Muryawan MH. Hubungan derajat proteinuria, kadar albumin, dan kolesterol serum dengan kadar zinc pada anak sindrom nefrotik (kajian saat serangan dan remisi). *Media Med Indones.* 2022;23(5).
16. Flora R, Fajar NA, Febry F, Yuliana I, Yulianti Y, Nurlaili N, et al. Zinc intake, zinc serum levels, and intelligence in school children in rural areas. *Open Access Maced J Med Sci.* 2021;9(E):394–397.
17. Gebrehiwot M, Kassa M, Gebrehiwot H, Sibhat M. Time to relapse and its predictors among children with nephrotic syndrome in comprehensive specialized hospitals, Tigray, Ethiopia, 2019. *Int J Pediatr.* 2020;2020:8818953. doi: 10.1155/2020/8818953.
18. Hamik W, Hilmanto D, Rahayuningsih SE. Relationship between serum zinc and homocysteine in children with nephrotic syndrome. *Paediatr Indones.* 2019;59(2):98–103. doi: 10.14238/pi59.2.2019.98-103.
19. Hanif M, Choudhury TR. Role of zinc in patients with nephrotic syndrome. *J Ped Nephrology.* 2017;5(1):1–6.



20. Harwijayanti BP, Rahfiludin MZ, Nugraheni SA. Zinc supplementation on stunting child: literature review. *J Aisyah J Ilmu Kesehatan*. 2022;7(2). doi: 10.30604/jika.v7i2.851.
21. Jaiswal R, Shrivastava A, Tiwari AD, Yadav RK, Maurya M, Mishra N. Varying zinc levels in pediatric nephrotic syndrome patients and its correlation with remission and relapse: An observational study. *Panacea J Med Sci*. 2022;12(1):91–96. doi: 10.18231/j.pjms.2022.018.
22. Kaneko K, Tsuji S, Kimata T, Kitao T, Yamanouchi S, Kato S. Pathogenesis of childhood idiopathic nephrotic syndrome: a paradigm shift from T-cells to podocytes. *World J Pediatr*. 2015;11(1):21–28. doi: 10.1007/s12519-015-0003-9.
23. Kennedy C, Chukwuebuka N, Uchenna E. Serum zinc levels in apparently healthy children in Nigeria: Are they acceptable. *Niger Med J*. 2020;61(6):291. doi: 10.4103/nmj.nmj\_20\_20.
24. Lucy Stiles, Ferrao Kevin, Kosha Mehta. Role of zinc in health and disease. *Clin Exp Med*. 2024. doi: 10.1007/s10238-024-01302-6.
25. Lu J, Zhang H, Cao W, Jiang S, Fang H, Yu D, et al. Study on the Zinc Nutritional Status and Risk Factors of Chinese 6–18-Year-Old Children. *Nutrients*. 2023;15(7).
26. Mbanefo NR, Uwaezuoke SN, Eneh CI, Odimegwu CL, Chikani UN, Muoneke UV, Nwolisa CE, Odo KE, Ogbuka FN, Akwue AT. Can Oral Zinc Supplementation Reduce Relapses in Childhood Steroid-Sensitive Nephrotic Syndrome? A Systematic Review. *Int J Nephrol Renovasc Dis*. 2023;16(April):143–153. doi: 10.2147/IJNRD.S403699.
27. McCloskey O, Maxwell AP. Diagnosis and management of nephrotic syndrome. *Practitioner*. 2017;261(1801):11–15.
28. Minj SS, Rathi S, Kondekar S, David JJ, et al. Study of risk factors for relapse in frequently versus infrequently relapsing nephrotic syndrome in 1-18 year age group: a combined prospective retrospective cohort analytical observational study. *Int J Contemp Pediatr*. 2019;6(2):803. doi: 8203/2349-3291.ijcp20190733.



29. Mumtaz A, Anees MS, Fatima S, Ahmed R. Serum zinc and copper levels in nephrotic syndrome patients. *Karger Publ.* 2011.
30. Noone DG, Iijima K, Parekh R. Idiopathic nephrotic syndrome in children. *Lancet.* 2018;392(10141):61–74. doi: 10.1016/S0140-6736(18)30536-1.
31. Rao LV, Synder LM. *Wallach's Interpretation of Diagnostic Tests.* 11th ed. India: Wolters Kluwer Health; 2021.
32. Rauf S. Sindrom nefrotik. In: *Penyakit Ginjal pada Anak: Tiga Penyakit Utama Ginjal.* Makassar: Unhas Press; 2020.
33. Rodriguez-Ballestas E, Reid-Adam J. Nephrotic syndrome. *Pediatr Rev.* 2022;43(2):87–99. doi: 10.1542/pir.2020-001230.
34. Roohani N, Hurrell R, Kelishadi R, Schulin R. Zinc and its importance for human health: an integrative review. *J Res Med Sci.* 2013;18(2):144–157.
35. Santín S, Bullich G, Tazón-Vega B, García-Maset R, Giménez I, Silva I, et al. Clinical utility of genetic testing in children and adults with steroid-resistant nephrotic syndrome. *Clin J Am Soc Nephrol.* 2011;6(5):1139–1148. doi: 10.2215/CJN.05260610.
36. Sato M, Ishikura K, Ando T, Kikunaga K, Terano C, Hamada R, et al. Prognosis and acute complications at the first onset of idiopathic nephrotic syndrome in children: a nationwide survey in Japan (JP-SHINE study). *Nephrol Dial Transplant.* 2021;36(3):475–481. doi: 10.1093/ndt/gfz185.
37. Septarini AD, Tambunan T, Amalia P. Calcium and vitamin D supplementation in children with frequently relapsing and steroid-dependent nephrotic syndrome. *Paediatr Indones.* 2012;52(1):16–21.
38. Shanta SN, Begum A, Uddin GM, Roy RR, Huque SS, Jesmin T, Mamun AA, Sharmim MS, Khan AR. Response pattern and risk factor of relapse in children with first attack idiopathic nephrotic syndrome. *Paediatr Nephrol J Bangladesh.* 2023;8(1):24–29. doi: 10.4103/pnjb.pnjb\_24\_22.
39. Sherali AR, Moorani KN, Chishty SH, Khan SI. Zinc supplement in reduction of relapses in children with steroid sensitive nephrotic syndrome. *J Coll Physicians Surg Pak.* 2014;24(2):110–113.



40. Taherahmadi H, Yousefichaijan P, Rezagholizamenjany M, Rafiei M, Norozi S. Serum zinc level in recurrent nephrotic syndrome. *Nephro-Urol Mon.* 2019;11(4). doi: 10.5812/numonthly.96628.
41. Tapia C, Bashir K. Nephrotic syndrome [Internet]. 2023 [cited 2025 Jul 18]. Available from: [www.ncbi.nlm.nih.gov/books/NBK538349](http://www.ncbi.nlm.nih.gov/books/NBK538349).
42. Topal A, Dhurat R, Nayak C. Zinc responsive acrodermatitis in nephrotic syndrome: A rare presentation. *Indian J Dermatol Venereol Leprol.* 2012;78(1):122–123. doi: 10.4103/0378-6323.90976.
43. Vivarelli M, Massella L, Ruggiero B, Emma F. Minimal change disease. *Clin J Am Soc Nephrol.* 2017;12(2):332–345. doi: 10.2215/CJN.05000516.
44. Zarlina I. Kadar seng plasma pada sindrom nefrotik relaps sering dan sindrom nefrotik dependen steroid pada fase relaps dan remisi. Jakarta: Universitas Indonesia; 2015.
45. Zheng Y, Hou L, Wang XL, Zhao CG, Du Y. A review of nephrotic syndrome and atopic diseases in children. *Transl Androl Urol.* 2021;10(1):475–482. doi: 10.21037/TAU-20-665.

