

DAFTAR PUSTAKA

1. Bray GA. Obesitas. In: *Endokrinologi Dasar dan Klinik*. Connecticut: Appleton and Lange Medical Publisher, 2000; 886–96.
2. Sjarif DR, Gultom LC, Hendarto A, Lestari ED, Sidiartha IGL, Mexitalia M. Diagnosis, tatalaksana dan pencegahan obesitas pada anak dan Rrmaja. 1st ed. Jakarta: Unit Kerja Koordinasi Nutrisi dan Penyakit Metabolik Ikatan Dokter Anak Indonesia, 2014.
3. Hales CM, Carrol MD, Fryar CD, Olgen CL. Prevalence of obesity among adults and youth: United States, 2015–2016. Centers Dis Control Prev Natl Cent Heal Stat. 2017; 1–8.
4. Kementerian Kesehatan Republik Indonesia, Hasil Utama RISKESDAS 2018. Jakarta, 2018.
5. Zakharova I, Klimov L, Kuryaninova V, Nikitina I, Malyavskaya S, Dolbnya S, et al. Vitamin D insufficiency in overweight and obese children and adolescents. *Front Endocrinol (Lausanne)*. 2019; 10: 1–13.
6. Juliany A, Gabrilasari PL, Daud D, Lisal JS. Relationship between vitamin D deficiency and insulin resistance in obese children. *Glob J Health Sci*. 2021; 13: 82–88.
7. Wu H, Ballantyne CM. Skeletal muscle inflammation and insulin resistance in obesity. *J Clin Invest*. 2017; 127: 43–55.
8. Barseem NF, Helwa MA. Homeostatic model assessment of insulin resistance as a predictor of metabolic syndrome: Consequences of obesity in children and adolescents. *Egypt Pediatr Assoc Gaz*. 2015; 63: 19–24.
9. Atabek ME, Pirgon O, Kurtoglu S. Assessment of abnormal glucose homeostasis and insulin resistance in Turkish obese children and adolescents. 2007; 304–10.
10. Greenspan FS. Hormon Steroid dan Vitamin D. In: *Endokrinologi Dasar dan Klinik*. Appleton and Lange Medical Publisher, 2000, pp. 37–41.
11. Utari A, Pulungan AB, Batubara JR. Vitamin D dalam Buku Ajar Endokrin Anak. 2nd ed. Jakarta: Badan Penerbit Ikatan Dokter Anak Indonesia, 2018.
12. Lamberg CA, Brustad M, Meyer HE, Steingrimsdottir L. Vitamin D: a systematic literature review for the 5th edition of the Nordic Nutrition Recommendations. *Food Nutr Res*. 2013; 57: 1–32.
13. Holick MF, Binkley NC, Bischoff-Ferrari HA, Catherine M G, David A H, Robert P H, et al. Evaluation, treatment, and prevention of vitamin D deficiency: an endocrine society clinical practice guideline. *J Clin Endocrinol Metab*. 2011; 96: 1911–30.
14. Holick MF. Resurrection of vitamin D deficiency and rickets. *J Clin Invest*. 2006; 1: 2062–72.
15. Holick MF. High prevalence of vitamin D inadequacy and implications for health. *Mayo Clin Proceeding*. 2006; 81: 353–73.
16. Ferrari HAB, Giovannucci E, Willett WC, Dietrich T, Hughes BD. Estimation of optimal serum concentrations of 25-hydroxyvitamin D for multiple health outcomes. *Am J Clin Nutr*. 2006; 84: 18–28.
17. Christakos S, Ajibade D V, Dhawan P, Fechner AJ, Mady LJ. Vitamin D: Metabolism. *Endocrinol Metab Clin North Am*. 2010; 39: 243–53.

18. Ariganjoye R. Pediatric hypovitaminosis D: molecular perspectives and clinical implications. *Glob Pediatr Heal.* 2017; 4: 1–7.
19. Charoenngam N, Holick MF. Immunologic effects of vitamin D on human health and disease. *Nutrients.* 2020; 1–28.
20. Corsello A, Macchi M, D’Oria V, Pigazzi C, Alberti I, Treglia G, et al. Effects of vitamin D supplementation in obese and overweight children and adolescents: A systematic review and meta-analysis. *Pharmacol Res.* 2023; 1–9.
21. Cahyono HA, Subarja D, Pateda V, Satmoko S, Marzuki NS. Obesitas anak. In: Batubara JR, Tridadja B, Pulungan AB (eds) *Buku Ajar Endokrinologi Anak.* Jakarta: Badan Penerbit Ikatan Dokter Anak Indonesia, 2018, pp. 66–83.
22. Onis M, Onyango A, Borghi E, Siyam A, Pinol A. WHO child growth standars. Geneva: WHO Press, 2006.
23. Sjarif DR, Sudaryati NS, Devaera Y, Tanjung CF. Asuhan Nutrisi Pediatrik. 1st ed. Jakarta: UKK Nutrisi dan Penyakit Metabolik Ikatan Dokter Anak Indonesia, 2011.
24. Sheila G. Overweight and obesity dalam Nelson Text Book of Pediatrics. 19th ed. Elsevier Saunders, 2011.
25. Huang J, Qi S. Childhood obesity and food intake. *World J Pediatr.* 2015; 11: 101–105.
26. Jebeile H, Kelly AS, O’Malley G, Baur LA. Obesity in children and adolescent: epidemiology, causes, assessment, and management. *Lancet Diabetes Endocrinol.* 2022; 351–65.
27. Rudolph AM, Hoffman JI., Rudolph CD. Pasien Remaja dalam Buku Ajar Pediatri Rudolph. 20th ed. California: Appleton and Lange Medical Publisher, 2006.
28. Pangestu YM, Warouw SMS, Tatura SN. Hubungan kadar 25-hydroksivitamin D dan high molecular weight adiponectin pada remaja obes. *Sari Pediatr.* 2015; 17: 64–70.
29. Mittal M, Jain V. Management of obesity and its complications in children and adolescents. *Indian J Pediatr.* 2021; 1222–34.
30. Mahoney LT, Trudy L. B, Stanford W, Thomson BH, Witt JD, Rost SA, et al. Coronary risk factors measured in childhood and young adult life are associated with coronary artery calcification in young adults: the Muscatine Study. *J Am Coll Cardiol.* 1996; 27: 277–84.
31. Turer CB, Brady TM, de Ferranti SD. Obesity, hypertension, and dyslipidemia in childhood are key modifiable antecedents of adult cardiovascular disease. *Circulation.* 2018; 1256–59.
32. Kansra AR, Lakkunarajah S, Jay MS. Childhood and adolescent obesity: A review. *Front Pediatr.* 2021; 1–8.
33. Oudjedia A, Aissa KS. Associations between obesity, asthma, and physical activity in children and adolescents. *Apunt Sport Nedicine.* 2020; 39–48.
34. Fortunato LM, Kruk T, Junior EL. Relationship between obesity and musculoskeletal disorders: systematic review and meta-analysis. *Res Soc Dev.* 2021; 1–10.
35. Hyun J, Kwon MD, Eun S, Lee MD, Ah H, Lee MD, et al. Relationship of serum 25-Hydroxyvitamin D (25 [OH] D) levels and components of metabolic syndrome in prepubertal children. *Nutrition.* 2015; 25: 1–4.

36. Yuliadewi LG, Arimbawa IM, Suarta K, Widiana IGR, Kardana M, Yantie NPVK, et al. Korelasi nilai homeostasis model assesment for insulin resistance (HOMA-IR) dan kadar vitamin D pada remaja dengan obesitas di Kota Denpasar, Bali, Indonesia. Intisari Sains Medis. 2021; 12: 1025–30.
37. Saneifard H, Shakiba M, Fallahzadeh A. Vitamin D deficiency in children and adolescents: Role of puberty and obesity on vitamin D status. Nutr Metab Insights.; 2021: 1–10.
38. Gupta A. Etiopathogenesis of insulin resistance. In: Gupta A (ed) *Understanding Insulin and Insulin Resistance*. Elsevier, 2022; 231–73.
39. Sears B, Perry M. The role of fatty acids in insulin resistance. Lipids Health Dis. 2015; 14: 1–9.
40. Samuel VT, Shulman GI. The pathogenesis of insulin resistance : integrating signaling pathways and substrate flux. J Clin Invest. 2016; 126: 12–22.
41. Stöckli J, Fazakerley DJ, James DE. GLUT4 exocytosis. J Cell Sci. 2011; 124: 4147–50.
42. Kosteli A, Sugaru E, Haemmerle G, Martin JF, Lei JL, Zechner R, et al. Weight loss and lipolysis promote a dynamic immune response in murine adipose tissue. J Clin Invest. 2010; 120: 3466–79.
43. Conwell LS, Trost SG, Brown WJ, Batch JA. Indexes of insulin resistance and secretion in obese children and adolescents. Diabetes Care. 2004; 27: 314–320.
44. Amana M, Resnawitab D, Rasyidc H, Kasimc H, Bakric S, Umara H, et al. The concordance of triglyceride glucose index (TyG index) and homeostatic model assessment for insulin resistance (HOMA-IR) in non-diabetic subjects of adult Indonesian males. Clin Epidemiol Glob Heal. 2020; 1–4.
45. Lim J, Kim J, Koo SH, Kwon GC. Comparison of triglyceride glucose index, and related parameters to predict insulin resistance in Korean adults: An analysis of the 2007-2010 Korean national health and nutrition examination survey. PLoS One. 2019; 1–11.
46. Pulungan AB. Pubertas. In: Batubara JR, Tridadja B, Pulungan AB (eds) *Buku Ajar Endokrinologi Anak*. Badan Penerbit Ikatan Dokter Anak Indonesia, 2018.
47. Hypponen E, Boucher BJ. Adiposity, vitamin D requirements, and clinical implications for obesity-related metabolic abnormalities. Nutr Rev. 2018; 1–15.
48. Teixeira JS, Campos ABF, Cordeiro A, Pereira SE, Saboya CJ, Ramalho A. Vitamin D nutritional status and its relationship with metabolic changes in adolescents and adults with severe obesity. Nutr Hosp. 2018; 847–53.
49. Gün E, Uzun H, Bolu S, Arslanoğlu I, Kocabay K. Serum 25-hydroxyvitamin D is associated with insulin resistance independently of obesity in children ages 5–17. Prim Care Diabetes. 2020; 14: 741–46.
50. Gutiérrez ED, Aguirre PM, López D, Medeiros M, Tamborrel N, Clark P. Low serum vitamin D concentrations are associated with insulin resistance in Mexican children and adolescents. Nutrients. 2019; 1–10.
51. Lobstein T, Brinsden H. *Atlas of Childhood Obesity*. London: World Health Organization, UNICEF, 2019.
52. Rambhojan C, Larifla L, Clepier J, Bouaziz-amar E, Armand C, Plumasseau J, et al. Vitamin D Status , Insulin Resistance , Leptin-To-Adiponectin Ratio in Adolescents : Results of a 1-Year Lifestyle Intervention. 2016; 4: 596–602.
53. Shah B, Cost KT, Fuller A, Birken C, Anderson LN. Sex and gender

- differences in childhood obesity: Contributing to the research agenda. *BMJ Nutr Prev Heal.* 2020; 1–4.
- 54. Zaen NA, Tamtomo D, Ichsan B. Effects of overweight and obesity on hypertension in adolescents: A metaanalysis. *J Epidemiol Public Heal.* 2023; 109–20.
 - 55. High blood pressure in children. *Centers Dis Control Prev.*
 - 56. Mazicioglu M, Hatipoglu N, Ozturk A, Cicek B, Ustunbas B, Kurtoglu S. Waist circumference an mid-upper arm circumference in evaluation of obesity in children aged between 6 and 17 yeras. *J Clin Res Pediatr Endocrinol.* 2010; 144–50.
 - 57. Kuciene R, Dulskiene V. Associations between body mass index, waist circumference, waist-to-height ratio, and high blood pressure among adolescents: a cross-sectional study. *Sci Rep.* 2019; 1–11.
 - 58. Shulhai AM, Pavlynshyn H, Oleksandra S, Furdela V. The association between vitamin D deficiency and metabolic syndrome in Ukrainian adolescent with overweight and obesity. *Ann Pediatr Endocrinol Metab.* 2022; 113–20.
 - 59. Huang K, Jiang YJ, Fu JF, Liang JF, Zhu ZW, Hu LF. The relationship between serum 25-hydroxyvitamin D and glucose homeostasis in obese children and adolescents in Zhejiang, China. *Endocr Pract.* 2015; 1117–24.
 - 60. Plesner JL, Dahl M, Fonvig CE, Nielsen tennta R, Kloppenborg JT, Pedersen O, et al. Obesity is associated with vitamin D deficiency in Danish children and adolescent. *J Pediatr Endocrinol Metab.* 2017; 53–61.
 - 61. Fiamenghi VI, de Mello ED. Vitamin D deficiency in children and adolescents with obesity: A meta-analysis. *J Pediatr (Rio J).* 2021; 273–79.
 - 62. Thota P, Lopez FP, Zapata VB, Pasupuleti V, Hernandez A. Obesity-related insulin resistence in adolescent: A systematic review and meta-annalysis of observational studies. *Gynecol Endocrinol.* 2017; 179–84.
 - 63. Arslanian S, Kim JY, Nasr A, Bacha F, Tfayli H, Lee S. Insulin sensitivity across the lifespan from obese adolescents to abose adults with impaired glucose tolerance: Who is worse off? *Pediatr Diabetes.* 2017; 1–7.
 - 64. Weiss R, Taksali SE, Dufour S, Yeckel CW, Ppademetris X, Cline G, et al. The obese insulin-sensitive adolescent: Importance of adiponectin and lipid partitioning. *J Clin Endocrinoloy Metab.* 2005; 3731–37.
 - 65. Corica D, Zusi C, Olivieri F, Marigliano M, Piona C, Fornari E. Vitamin D affects insulin sensitivity and beta cell function in obese non-diabetic youths. *Eur J Endocrinol.* 2019; 439–50.
 - 66. Bayrak EK. Impact of genetic polymorphisms on insulin resistance. In: Arora S (ed) *Insulin Resiteance.* India, 2012.
 - 67. Abate N, Carulli L, Cabo-Chan A, Chandalia M, Snell PG, Grundy SM. Genetic polymorphism PC-1 K121Q and ethnic susceptibility to insulin resistance. *J od Clin Endocrinol Metab.* 2003; 5927–34.
 - 68. Shapira S, Kazanov D, Dankner R, Fishman S, Stern N. High expression level of PPAR γ in CD24 knockout mice and gender-specific metabolic changes: A model of insulin-sensitive obesity. *J Pers Med.* 2021; 1–6.