

Literaturverzeichnis

1. *Wabitsch M, Kunze D.* Konsensbasierte (S2) Leitlinie zur Diagnostik, Therapie und Prävention von Übergewicht und Adipositas im Kindes- und Jugendalter. Version 21.11.2014; 2015 [Stand: 28.03.2018].
2. *Neuhauser H, Schienkiewitz A, Schaffrath Rosario A, Dortschy R, Kurth B-M.* Referenzperzentile für anthropometrische Maßzahlen und Blutdruck aus der Studie zur Gesundheit von Kindern und Jugendlichen in Deutschland (KiGGS): Beiträge zur Gesundheitsberichterstattung des Bundes. 2. erweiterte Aufl. Berlin: Robert Koch-Institut; 2013.
3. *Kromeyer-Hauschild K, Wabitsch M, Kunze D, Geller F, Geiß HC, Hesse V et al.* Perzentile für den Body-mass-Index für das Kindes- und Jugendalter unter Heranziehung verschiedener deutscher Stichproben. *Monatsschr Kinderheilkd* 2001; 149(8):807–18. doi: 10.1007/s001120170107.
4. *Powell K.* Obesity: the two faces of fat. *Nature* 2007; 447(7144):525–7. doi: 10.1038/447525a.
5. *Simmonds M, Llewellyn A, Owen CG, Woolacott N.* Predicting adult obesity from childhood obesity: a systematic review and meta-analysis. *Obes Rev* 2016; 17(2):95–107. doi: 10.1111/obr.12334.
6. *Dulloo AG.* Biomedicine. A sympathetic defense against obesity. *Science* 2002; 297(5582):780–1. doi: 10.1126/science.1074923.
7. *Flechtner-Mors M, Neuhauser H, Reinehr T, Roost H-P, Wiegand S, Siegfried W et al.* Blood pressure in 57,915 pediatric patients who are overweight or obese based on five reference systems. *Am J Cardiol* 2015; 115(11):1587–94. doi: 10.1016/j.amjcard.2015.02.063.
8. *Martin L, Oepen J, Reinehr T, Wabitsch M, Claussnitzer G, Waldeck E et al.* Ethnicity and cardiovascular risk factors: evaluation of 40,921 normal-weight, overweight or obese children and adolescents living in Central Europe. *Int J Obes* 2015; 39(1):45–51. doi: 10.1038/ijo.2014.167.
9. *Körner A, Wiegand S, Hungele A, Tuschy S, Otto KP, l'Allemand-Jander D et al.* Longitudinal multicenter analysis on the course of glucose metabolism in obese children. *Int J Obes (Lond)* 2013; 37(7):931–6. doi: 10.1038/ijo.2012.163.
10. *Everhart JE, Pettitt DJ, Bennett PH, Knowler WC.* Duration of obesity increases the incidence of NIDDM. *Diabetes* 1992; 41(2):235–40. doi: 10.2337/diab.41.2.235.
11. *McCance DR, Pettitt DJ, Hanson RL, Jacobsson LT, Bennett PH, Knowler WC.* Glucose, insulin concentrations and obesity in childhood and adolescence as predictors of NIDDM. *Diabetologia* 1994; 37(6):617–23. doi: 10.1007/bf00403382.
12. *Freedman DS, Khan LK, Mei Z, Dietz WH, Srinivasan SR, Berenson GS.* Relation of childhood height to obesity among adults: the Bogalusa Heart Study. *Pediatrics* 2002; 109(2):E23. doi: 10.1542/peds.109.2.e23.
13. *Srinivasan SR, Myers L, Berenson GS.* Predictability of childhood adiposity and insulin for developing insulin resistance syndrome (syndrome X) in young adulthood: the Bogalusa Heart Study. *Diabetes* 2002; 51(1):204–9. doi: 10.2337/diabetes.51.1.204.
14. *l'Allemand D, Wiegand S, Reinehr T, Müller J, Wabitsch M, Widhalm K et al.* Cardiovascular Risk in 26,008 European Overweight Children as Established by a Multicenter Database. *Obesity* 2008; 16(7):1672–9. doi: 10.1038/oby.2008.259.
15. *Bohn B, Wiegand S, Kiess W, Reinehr T, Stachow R, Oepen J et al.* Changing Characteristics of Obese Children and Adolescents Entering Pediatric Lifestyle Intervention Programs in Germany over the Last 11 Years: An Adiposity Patients Registry Multicenter Analysis of 65,453 Children and Adolescents. *Obes Facts* 2017; 10(5):517–30. doi: 10.1159/000479631.

16. Wunsch R, Sousa G de, Reinehr T. Intima-media thickness in obesity: relation to hypertension and dyslipidaemia. *Arch Dis Child* 2005; 90(10):1097. doi: 10.1136/adc.2004.066522.
17. Slyper AH, Rosenberg H, Kabra A, Weiss MJ, Blech B, Gensler S et al. Early atherogenesis and visceral fat in obese adolescents. *Int J Obes* 2014; 38(7):954–8. doi: 10.1038/ijo.2014.11.
18. Berenson GS, Srinivasan SR, Bao W, Newman WP, Tracy RE, Wattigney WA. Association between multiple cardiovascular risk factors and atherosclerosis in children and young adults. The Bogalusa Heart Study. *The New England Journal of Medicine* 1998; 338(23):1650–6. doi: 10.1056/NEJM199806043382302.
19. Woo KS, Chook P, Yu CW, Sung RYT, Qiao M, Leung SSF et al. Effects of diet and exercise on obesity-related vascular dysfunction in children. *Circulation* 2004; 109(16):1981–6. doi: 10.1161/01.CIR.0000126599.47470.BE.
20. Reinehr T, Lass N, Toschke C, Rothermel J, Lanzinger S, Holl RW. Which Amount of BMI-SDS Reduction Is Necessary to Improve Cardiovascular Risk Factors in Overweight Children? *J Clin Endocrinol Metab* 2016; 101(8):3171–9. doi: 10.1210/jc.2016-1885.
21. Gustafsson D, Unwin R. The pathophysiology of hyperuricaemia and its possible relationship to cardiovascular disease, morbidity and mortality. *BMC Nephrol* 2013; 14:164. doi: 10.1186/1471-2369-14-164.
22. Reinehr T, Bürk G, Andler W. Diagnostik der Adipositas im Kindesalter. *Pädiatrische Praxis* 2002; 60:463–74.
23. Wiegand S, Keller K-M, Röbl M, l'Allemand D, Reinehr T, Widhalm K et al. Obese boys at increased risk for nonalcoholic liver disease: evaluation of 16 390 overweight or obese children and adolescents. *Int J Obes* 2010; 34(10):1468–74. doi: 10.1038/ijo.2010.106.
24. Camilleri M, Malhi H, Acosta A. Gastrointestinal Complications of Obesity. *Gastroenterology* 2017; 152(7):1656–70. doi: 10.1053/j.gastro.2016.12.052.
25. Celedón JC, Palmer LJ, Litonjua AA, Weiss ST, Wang B, Fang Z et al. Body mass index and asthma in adults in families of subjects with asthma in Anqing, China. *Am J Respir Crit Care Med* 2001; 164(10 Pt 1):1835–40. doi: 10.1164/ajrccm.164.10.2105033.
26. del Río-Navarro B, Cisneros-Rivero M, Berber-Eslava A, Espínola-Reyna G, Sienra-Monge J. Exercise induced bronchospasm in asthmatic and non-asthmatic obese children. *Allergol Immunopathol (Madr)* 2000; 28(1):5–11.
27. Kaplan TA, Montana E. Exercise-induced bronchospasm in nonasthmatic obese children. *Clin Pediatr (Phila)* 1993; 32(4):220–5. doi: 10.1177/000992289303200407.
28. Hakala K, Stenius-Aarniala B, Sovijärvi A. Effects of weight loss on peak flow variability, airways obstruction, and lung volumes in obese patients with asthma. *Chest* 2000; 118(5):1315–21. doi: 10.1378/chest.118.5.1315.
29. Mathew JL, Narang I. Sleeping too Close Together: Obesity and Obstructive Sleep Apnea in Childhood and Adolescence. *Paediatric Respiratory Reviews* 2014; 15(3):211–8. doi: 10.1016/j.prrv.2013.09.001.
30. Kessler JL, Jacobs JC, Cannamela PC, Shea KG, Weiss JM. Childhood Obesity is Associated With Osteochondritis Dissecans of the Knee, Ankle, and Elbow in Children and Adolescents. *J Pediatr Orthop* 2018; 38(5):e296–e299. doi: 10.1097/BPO.0000000000001158.
31. Ibáñez L, Ong KK, López-Bermejo A, Dunger DB, Zegher F de. Hyperinsulinaemic androgen excess in adolescent girls. *Nat Rev Endocrinol* 2014; 10(8):499–508. doi: 10.1038/nrendo.2014.58.
32. Burt Solorzano CM, McCartney CR. Obesity and the pubertal transition in girls and boys. *REPRODUCTION* 2010; 140(3):399–410. doi: 10.1530/REP-10-0119.
33. Marcovecchio ML, Chiarelli F. Obesity and growth during childhood and puberty. *World Rev Nutr Diet* 2013; 106:135–41. doi: 10.1159/000342545.

34. *Reinehr T, Roth CL.* Is there a causal relationship between obesity and puberty? *The Lancet Child & Adolescent Health* 2019; 3(1):44–54. doi: 10.1016/S2352-4642(18)30306-7.
35. *Ravens-Sieberer U, Redegeld M, Bullinger M.* Quality of life after in-patient rehabilitation in children with obesity. *Int J Obes Relat Metab Disord* 2001; 25 Suppl 1:S63-5. doi: 10.1038/sj.ijo.0801702.
36. *Hartmann AS, Hilbert A.* Psychosoziale Folgen von Adipositas im Kindes- und Jugendalter und Strategien zu deren Behandlung. *Bundesgesundheitsblatt – Gesundheitsforschung – Gesundheitsschutz* 2013; 56(4):532–8. doi: 10.1007/s00103-012-1637-6.
37. *Britz B, Siegfried W, Ziegler A, Lamertz C, Herpertz-Dahlmann BM, Remschmidt H et al.* Rates of psychiatric disorders in a clinical study group of adolescents with extreme obesity and in obese adolescents ascertained via a population based study. *Int J Obes Relat Metab Disord* 2000; 24(12):1707–14. doi: 10.1038/sj.ijo.0801449.
38. *Gortmaker SL, Must A, Perrin JM, Sobol AM, Dietz WH.* Social and economic consequences of overweight in adolescence and young adulthood. *The New England Journal of Medicine* 1993; 329(14):1008–12. doi: 10.1056/NEJM199309303291406.
39. *Clarke PJ, O'Malley PM, Schulenberg JE, Johnston LD.* Midlife Health and Socioeconomic Consequences of Persistent Overweight Across Early Adulthood: Findings From a National Survey of American Adults (1986–2008). *American Journal of Epidemiology* 2010; 172(5):540–8. doi: 10.1093/aje/kwq156.
40. *Giel KE, Zipfel S, Alizadeh M, Schäffeler N, Zahn C, Wessel D et al.* Stigmatization of obese individuals by human resource professionals: an experimental study. *BMC Public Health* 2012; 12(1):992. doi: 10.1186/1471-2458-12-525.
41. *Kiess W, Galler A, Reich A, Müller G, Kapellen T, Deutscher J et al.* Clinical aspects of obesity in childhood and adolescence. *Obesity Reviews* 2001; 2(1):29–36. doi: 10.1046/j.1467-789x.2001.00017.x.
42. *Maffeis C.* Aetiology of overweight and obesity in children and adolescents. *Eur J Pediatr* 2000; 159 Suppl 1:S35–44. doi: 10.1007/pl00014361.
43. *Ravussin E, Bogardus C.* Energy balance and weight regulation: genetics versus environment. *Br J Nutr* 2000; 83 Suppl 1:S17–20. doi: 10.1017/s0007114500000908.
44. *Hebebrand J, Hinney A, Knoll N, Volckmar A-L, Scherag A.* Molecular genetic aspects of weight regulation. *Dtsch Arztebl Int* 2013; 110(19):338–44. doi: 10.3238/arztebl.2013.0338.
45. *Wheeler E, Huang N, Bochukova EG, Keogh JM, Lindsay S, Garg S et al.* Genome-wide SNP and CNV analysis identifies common and low-frequency variants associated with severe early-onset obesity. *Nat Genet* 2013; 45(5):513–7. doi: 10.1038/ng.2607.
46. *Castro JM de.* Independence of heritable influences on the food intake of free-living humans. *Nutrition* 2002; 18(1):11–6. doi: 10.1016/s0899-9007(01)00661-x.
47. *Pérusse L, Tremblay A, Leblanc C, Bouchard C.* Genetic and environmental influences on level of habitual physical activity and exercise participation. *American Journal of Epidemiology* 1989; 129(5):1012–22. doi: 10.1093/oxfordjournals.aje.a115205.
48. *Bouchard C, Tremblay A, Després JP, Nadeau A, Lupien PJ, Thériault G et al.* The response to long-term overfeeding in identical twins. *The New England Journal of Medicine* 1990; 322(21):1477–82. doi: 10.1056/NEJM199005243222101.
49. *Lillycrop KA, Burdge GC.* Epigenetic changes in early life and future risk of obesity. *Int J Obes (Lond)* 2011; 35(1):72–83. doi: 10.1038/ijo.2010.122.
50. *Galbete C, Toledo J, Martínez-González MA, Martínez JA, Guillén-Grima F, Martí A.* Lifestyle factors modify obesity risk linked to PPARG2 and FTO variants in an elderly population: a cross-sectional analysis in the SUN Project. *Genes Nutr* 2013; 8(1):61–7. doi: 10.1007/s12263-012-0296-4.

51. Kurth B-M, Schaffrath Rosario A. Die Verbreitung von Übergewicht und Adipositas bei Kindern und Jugendlichen in Deutschland. Ergebnisse des bundesweiten Kinder- und Jugendgesundheits surveys (KiGGS). Bundesgesundheitsblatt – Gesundheitsforschung – Gesundheitsschutz 2007; 50(5-6):736–43. doi: 10.1007/s00103-007-0235-5.
52. Sun SS, Deng X, Sabo R, Carrico R, Schubert CM, Wan W et al. Secular trends in body composition for children and young adults: the Fels Longitudinal Study. Am J Hum Biol 2012; 24(4):506–14. doi: 10.1002/ajhb.22256.
53. Schienkiewitz A, Brettschneider A-K, Damerow S, Schaffrath Rosario A. Übergewicht und Adipositas im Kindes- und Jugendalter in Deutschland: Querschnittsergebnisse aus KiGGS Welle 2 und Trends. Journal of Health Monitoring 2018; 3(1):16–23. doi: 10.17886/RKI-GBE-2018-005.
54. Westerterp-Plantenga MS. Analysis of energy density of food in relation to energy intake regulation in human subjects. Br J Nutr 2001; 85(3):351–61. doi: 10.1079/bjn2000272.
55. Plachta-Danielzik S, Landsberg B, Bosy-Westphal A, Johannsen M, Lange D, J Müller M. Energy gain and energy gap in normal-weight children: longitudinal data of the KOPS. Obesity (Silver Spring) 2008; 16(4):777–83. doi: 10.1038/oby.2008.5.
56. Rissanen A, Hakala P, Lissner L, Mattlar C-E, Koskenvuo M, Rönnemaa T. Acquired preference especially for dietary fat and obesity: a study of weight-discordant monozygotic twin pairs. Int J Obes Relat Metab Disord 2002; 26(7):973–7. doi: 10.1038/sj.ijo.0802014.
57. Joffe YT, van der Merwe L, Carstens M, Collins M, Jennings C, Levitt NS et al. Tumor necrosis factor-alpha gene -308 G/A polymorphism modulates the relationship between dietary fat intake, serum lipids, and obesity risk in black South African women. J Nutr 2010; 140(5):901–7. doi: 10.3945/jn.109.109355.
58. Finger JD, Varnaccia G, Borrmann A, Lange C, Mensink G. Körperliche Aktivität von Kindern und Jugendlichen in Deutschland – Querschnittergebnisse aus KiGGS Welle 2 und Trends. Journal of Health Monitoring 2018; 3(1):24–31. doi: 10.17886/RKI-GBE-2018-006.
59. Rütten A, Pfeifer K, Hrsg. Nationale Empfehlungen für Bewegung und Bewegungsförderung. Aufl. 1.2.06.17. Köln: Bundeszentrale für gesundheitliche Aufklärung (BZgA); 2017. (Forschung und Praxis der Gesundheitsförderung, Sonderheft 3).
60. Epstein LH, Smith JA, Vara LS, Rodefer JS. Behavioral economic analysis of activity choice in obese children. Health Psychol 1991; 10(5):311–6. doi: 10.1037//0278-6133.10.5.311.
61. Worsley A, Coonan W, Leitch D, Crawford D. Slim and obese children's perceptions of physical activities. Int J Obes 1984; 8(3):201–11.
62. Graf C, Koch B, Kretschmann-Kandel E, Falkowski G, Christ H, Coburger S et al. Correlation between BMI, leisure habits and motor abilities in childhood (CHILT-project). Int J Obes Relat Metab Disord 2004; 28(1):22–6. doi: 10.1038/sj.ijo.0802428.
63. Trost SG, Kerr LM, Ward DS, Pate RR. Physical activity and determinants of physical activity in obese and non-obese children. Int J Obes Relat Metab Disord 2001; 25(6):822–9. doi: 10.1038/sj.ijo.0801621.
64. DeLany JP, Bray GA, Harsha DW, Volaufova J. Energy expenditure in preadolescent African American and white boys and girls: the Baton Rouge Children's Study. The American Journal of Clinical Nutrition 2002; 75(4):705–13. doi: 10.1093/ajcn/75.4.705.
65. Manz K, Schlack R, Poethko-Müller C, Mensink G, Finger J, Lampert T et al. Körperlich-sportliche Aktivität und Nutzung elektronischer Medien im Kindes- und Jugendalter. Ergebnisse der KiGGS-Studie – Erste Folgebefragung (KiGGS Welle 1). Bundesgesundheitsblatt – Gesundheitsforschung – Gesundheitsschutz 2014; 57(7):840–8. doi: 10.1007/s00103-014-1986-4.

66. *Klesges RC, Shelton ML, Klesges LM.* Effects of television on metabolic rate: potential implications for childhood obesity. *Pediatrics* 1993; 91(2):281–6.
67. *Locard E, Mamelle N, Billette A, Miginiac M, Munoz F, Rey S.* Risk factors of obesity in a five year old population. Parental versus environmental factors. *Int J Obes Relat Metab Disord* 1992; 16(10):721–9.
68. *Kries R von, Toschke AM, Wurmser H, Sauerwald T, Koletzko B.* Reduced risk for overweight and obesity in 5- and 6-y-old children by duration of sleep – a cross-sectional study. *Int J Obes Relat Metab Disord* 2002; 26(5):710–6. doi: 10.1038/sj.ijo.0801980.
69. *Wu BW, Skidmore PM, Orta OR, Faulkner J, Lambrick D, Signal L et al.* Genotype vs. Phenotype and the Rise of Non-Communicable Diseases: The Importance of Lifestyle Behaviors During Childhood. *Cureus* 2016; 8(1):e458. doi: 10.7759/cureus.458.
70. *Owens J, Maxim R, McGuinn M, Nobile C, Msall M, Alario A.* Television-viewing habits and sleep disturbance in school children. *Pediatrics* 1999; 104(3):e27. doi: 10.1542/peds.104.3.e27.
71. *Chaput J-P, Brunet M, Tremblay A.* Relationship between short sleeping hours and childhood overweight/obesity: results from the 'Québec en Forme' Project. *Int J Obes* 2006; 30(7):1080–5. doi: 10.1038/sj.ijo.0803291.
72. *Chahal H, Fung C, Kuhle S, Veugelers PJ.* Availability and night-time use of electronic entertainment and communication devices are associated with short sleep duration and obesity among Canadian children. *Pediatr Obes* 2013; 8(1):42–51. doi: 10.1111/j.2047-6310.2012.00085.x.
73. *Patel SR, Hu FB.* Short sleep duration and weight gain: a systematic review. *Obesity* (Silver Spring) 2008; 16(3):643–53. doi: 10.1038/oby.2007.118.
74. *Leprout R, van Cauter E.* Role of sleep and sleep loss in hormonal release and metabolism. *Endocr Dev* 2010; 17:11–21. doi: 10.1159/000262524.
75. *Chaput JP.* Short sleep duration as a cause of obesity: myth or reality? *Obes Rev* 2011; 12(5):e2–3. doi: 10.1111/j.1467-789X.2010.00848.x.
76. *Koletzko B, Schiess S, Brands B, Haile G, Demmelmair H, Kries R von et al.* Frühkindliche Ernährung und späteres Adipositasrisiko: Hinweise auf frühe metabolische Programmierung. *Bundesgesundheitsblatt – Gesundheitsforschung – Gesundheitsschutz* 2010; (7):666–73.
77. *Kries R von, Toschke AM, Koletzko B, Slikker W.* Maternal smoking during pregnancy and childhood obesity. *American Journal of Epidemiology* 2002; 156(10):954–61. doi: 10.1093/aje/kwf128.
78. *Kries R von, Koletzko B, Sauerwald T, Mutius E von, Barnert D, Grunert V et al.* Breast feeding and obesity: cross sectional study. *BMJ* 1999; 319(7203):147–50. doi: 10.1136/bmj.319.7203.147.
79. *Robinson SM, Marriott LD, Crozier SR, Harvey NC, Gale CR, Inskip HM et al.* Variations in infant feeding practice are associated with body composition in childhood: a prospective cohort study. *J Clin Endocrinol Metab* 2009; 94(8):2799–805. doi: 10.1210/jc.2009-0030.
80. *Birch LL, Fisher JO.* Development of eating behaviors among children and adolescents. *Pediatrics* 1998; 101(3 Pt 2):539–49.
81. *Benton D.* Role of parents in the determination of the food preferences of children and the development of obesity. *Int J Obes Relat Metab Disord* 2004; 28(7):858–69. doi: 10.1038/sj.ijo.0802532.
82. *Munsch S, Hasenboehler K, Michael T, Meyer AH, Roth B, Biedert E et al.* Restrained eating in overweight children: does eating style run in families? *Int J Pediatr Obes* 2007; 2(2):97–103. doi: 10.1080/17477160701369191.

83. *Vollmer, Vollmer RL, Mobley AR.* Parenting styles, feeding styles, and their influence on child obesogenic behaviors and body weight. A review. *Appetite* 2013; 71:232–41. doi: 10.1016/j.appet.2013.08.015.
84. *Kubesch S, Hrsg.* Exekutive Funktionen und Selbstregulation: Neurowissenschaftliche Grundlagen und Transfer in die pädagogische Praxis. 1. Aufl. Bern: Huber; 2014. (Programmbereich Psychologie).
85. *Reinert KRS, Po'e EK, Barkin SL.* The relationship between executive function and obesity in children and adolescents: a systematic literature review. *J Obes* 2013;820956. doi: 10.1155/2013/820956.
86. *Liang J, Matheson BE, Kaye WH, Boutelle KN.* Neurocognitive correlates of obesity and obesity-related behaviors in children and adolescents. *Int J Obes (Lond)* 2014; 38(4):494–506. doi: 10.1038/ijo.2013.142.
87. *Graziano PA, Kelleher R, Calkins SD, Keane SP, Brien MO.* Predicting weight outcomes in preadolescence: the role of toddlers' self-regulation skills and the temperament dimension of pleasure. *Int J Obes (Lond)* 2013; 37(7):937–42. doi: 10.1038/ijo.2012.165.
88. *Puder JJ, Munsch S.* Psychological correlates of childhood obesity. *International Journal of Obesity* 2010; (34):37–43.
89. *Maes HH, Neale MC, Eaves LJ.* Genetic and environmental factors in relative body weight and human adiposity. *Behav Genet* 1997; 27(4):325–51. doi: 10.1023/a:1025635913927.
90. *Spiegelman BM, Flier JS.* Obesity and the regulation of energy balance. *Cell* 2001; 104(4):531–43. doi: 10.1016/s0092-8674(01)00240-9.
91. *Heseker H, Mensink G.* Lebensmittelverzehr und Nährstoffzufuhr im Kindes- und Jugendalter: Ergebnisse aus den beiden bundesweit durchgeführten Ernährungsstudien VELS und EsKiMo. In: Deutsche Gesellschaft für Ernährung (DGE), Hrsg. Ernährungsbericht 2008. Bonn; 2008. S. 49–53.
92. *FAO, WHO, UNU Expert Consultation.* Human energy requirements: Report of a joint FAO/WHO/UNU expert consultation: Rome, 2001. Rome: FAO; 2004. (Food and nutrition technical report series; Bd. 1).
93. *Elbelt U, Schuetz T, Hoffmann I, Pirlich M, Strasburger CJ, Lochs H.* Differences of energy expenditure and physical activity patterns in subjects with various degrees of obesity. *Clin Nutr* 2010; 29(6):766–72. doi: 10.1016/j.clnu.2010.05.003.
94. *Wabitsch M.* Gegen Diskriminierung und für die Förderung von Kindern und Jugendlichen mit Adipositas – die Geschichte der AGA. *Aktuelle Ernährungsmedizin* 2015; 40(01):50–3. doi: 10.1055/s-0034-1387529.
95. *John GK, Mullin GE.* The Gut Microbiome and Obesity. *Curr Oncol Rep* 2016; 18(7):45. doi: 10.1007/s11912-016-0528-7.
96. *Pihl AF, Fonvig CE, Stjernholm T, Hansen T, Pedersen O, Holm J-C.* The Role of the Gut Microbiota in Childhood Obesity. *Child Obes* 2016; 12(4):292–9. doi: 10.1089/chi.2015.0220.
97. *Münzberg H, Heymsfield SB.* Leptin, Obesity, and Leptin Resistance. In: Dagogo-Jack S, Hrsg. *Leptin: Regulation and Clinical Application*. Switzerland: Springer International Publishing; 2015. S. 67–78.
98. *Krude H.* Das große Einmaleins der Energiebilanz. In: Wiegand S, Ernst M, Hrsg. *Adipositas bei Kindern und Jugendlichen einmal anders: Die BABELUGA-Methode: Prävention, Therapie, Selbstmanagement*. 1. Aufl. Bern: H. Huber; 2010. S. 223–32 (Klinische Praxis).
99. *Lennerz KH, Wabitsch M.* Ätiologie und Genese. In: Eser K-H, Wabitsch M, Hrsg. *Berufliche Rehabilitation*. Freiburg: Lambertus-Verlag; 2014. S. 12–7.

100. Hemetek U, Ernert A, Wiegand S, Bau A-M. Welche Faktoren beeinflussen die Gewichtsstabilisierung nachhaltig? Eine qualitative Befragung von Kindern und Jugendlichen sowie deren Eltern, nach Teilnahme an einem Gewichtsreduktionsprogramm. *Das Gesundheitswesen* 2015; 77(11):888–94. doi: 10.1055/s-0034-1384564.
101. Graf C, Beneke R, Bloch W, Bucksch J, Dordel S, Eiser S et al. Recommendations for promoting physical activity for children and adolescents in Germany. A consensus statement. *Obes Facts* 2014; 7(3):178–90. doi: 10.1159/000362485.
102. Oude Luttikhuis H, Baur L, Jansen H, Shrewsbury VA, O'Malley C, Stolk RP et al. Interventions for treating obesity in children. *Cochrane Database Syst Rev* 2009; (1):CD001872. doi: 10.1002/14651858.CD001872.pub2.
103. Mühlig Y, Wabitsch M, Moss A, Hebebrand J. Weight Loss in Children and Adolescents: A Systematic Review and Evaluation of Conservative, Non-Pharmacological Obesity Treatment Programs. *Dtsch Arztebl Int* 2014; 111(48):818–24. doi: 10.3238/arztebl.2014.0818.
104. Wabitsch M, Moß A. Therapie und Prävention der Adipositas im Kindes- und Jugendalter: Evidenzbasierte (S3-) Leitlinie der Arbeitsgemeinschaft Adipositas im Kindes- und Jugendalter (AGA) der Deutschen Adipositas-Gesellschaft (DAG) und der Deutschen Gesellschaft für Kinder- und Jugendmedizin (DGKJ); 2019 [Stand: 03.12.2019]. Verfügbar unter: https://register.awmf.org/assets/guidelines/050-002l_S3_Therapie-Praevention-Adipositas-Kinder-Jugendliche_2019-11.pdf
105. Epstein LH, Gordy CC, Raynor HA, Beddome M, Kilanowski CK, Paluch R. Increasing fruit and vegetable intake and decreasing fat and sugar intake in families at risk for childhood obesity. *Obes Res* 2001; 9(3):171–8. doi: 10.1038/oby.2001.18.
106. Torbahn G, Gellhaus I, Koch B, Eberding A, Fink K, Holl RW, van Egmond-Fröhlich A. Änderung von Essgeschwindigkeit, Mahlzeiten- und Sättigungsvolumen korreliert mit der Veränderung des BMI-SDS bei Kindern und Jugendlichen im Rahmen einer multimodalen ambulanten Intervention. *Adipositas* 2014; (4):A23–24.
107. Graf C, Dordel S. Therapie der juvenilen Adipositas aus sportmedizinisch/sportwissenschaftlicher Sicht. *Bundesgesundheitsbl.* 2011; 54(5):541–7. doi: 10.1007/s00103-011-1272-7.
108. Ho M, Garnett SP, Baur LA, Burrows T, Stewart L, Neve M et al. Impact of dietary and exercise interventions on weight change and metabolic outcomes in obese children and adolescents: a systematic review and meta-analysis of randomized trials. *JAMA Pediatr* 2013; 167(8):759–68. doi: 10.1001/jamapediatrics.2013.1453.
109. Katzmarzyk PT, Barreira TV, Broyles ST, Champagne CM, Chaput J-P, Fogelholm M et al. Physical Activity, Sedentary Time, and Obesity in an International Sample of Children. *Med Sci Sports Exerc* 2015; 47(10):2062–9. doi: 10.1249/MSS.0000000000000649.
110. Kelley GA, Kelley KS. Effects of exercise in the treatment of overweight and obese children and adolescents: a systematic review of meta-analyses. *J Obes* 2013; 2013:783103. doi: 10.1155/2013/783103.
111. Gallant AR, Tremblay A, Périusse L, Després J-P, Bouchard C, Drapeau V. Parental eating behavior traits are related to offspring BMI in the Québec Family Study. *Int J Obes* 2013; 37(11):1422–6. doi: 10.1038/ijo.2013.14.
112. Johnson R, Welk G, Saint-Maurice PF, Ihmels M. Parenting styles and home obesogenic environments. *Int J Environ Res Public Health* 2012; 9(4):1411–26. doi: 10.3390/ijerph9041411.
113. Sebire SJ, Jago R. Parenting quality and television viewing among 10 year old children. *Preventive Medicine* 2013; 56(5):348–50. doi: 10.1016/j.ypmed.2013.02.008.
114. Williams MH, Rawson ES, Branch JD. Nutrition for health, fitness, & sport. Eleventh edition. New York, NY: McGraw-Hill Education; 2017.

115. Hoffmeister U, Bullinger M, van Egmond-Fröhlich A, Goldapp C, Mann R, Ravens-Sieberger U *et al.* Übergewicht und Adipositas in Kindheit und Jugend. Evaluation der ambulanten und stationären Versorgung in Deutschland in der „EvAKuJ-Studie“. Bundesgesundheitsblatt – Gesundheitsforschung – Gesundheitsschutz 2011; 54(1):128–35. doi: 10.1007/s00103-010-1193-x.
116. Reinehr T. Effectiveness of lifestyle intervention in overweight children. Proc Nutr Soc 2011; 70(4):494–505. doi: 10.1017/S0029665111000577.
117. Stoner L, Rowlands D, Morrison A, Credeur D, Hamlin M, Gaffney K *et al.* Efficacy of Exercise Intervention for Weight Loss in Overweight and Obese Adolescents: Meta-Analysis and Implications. Sports Med 2016; 46(11):1737–51. doi: 10.1007/s40279-016-0537-6.
118. Ho M, Garnett SP, Baur L, Burrows T, Stewart L, Neve M *et al.* Effectiveness of lifestyle interventions in child obesity: systematic review with meta-analysis. Pediatrics 2012; 130(6):e1647–71. doi: 10.1542/peds.2012-1176.
119. Cai L, Wu Y, Cheskin LJ, Wilson RF, Wang Y. Effect of childhood obesity prevention programmes on blood lipids: a systematic review and meta-analysis. Obes Rev 2014; 15(12):933–44. doi: 10.1111/obr.12227.
120. Peirson L, Fitzpatrick-Lewis D, Morrison K, Warren R, Usman Ali M, Raina P. Treatment of overweight and obesity in children and youth: a systematic review and meta-analysis. CMAJ Open 2015; 3(1):E35–46. doi: 10.9778/cmajo.20140047.
121. Becque MD, Katch VL, Rocchini AP, Marks CR, Moorehead C. Coronary risk incidence of obese adolescents: reduction by exercise plus diet intervention. Pediatrics 1988; 81(5):605–12.
122. Heshka S, Yang MU, Wang J, Burt P, Pi-Sunyer FX. Weight loss and change in resting metabolic rate. The American Journal of Clinical Nutrition 1990; 52(6):981–6. doi: 10.1093/ajcn/52.6.981.
123. Wolters B, Lass N, Reinehr T. TSH and free triiodothyronine concentrations are associated with weight loss in a lifestyle intervention and weight regain afterwards in obese children. Eur J Endocrinol 2013; 168(3):323–9. doi: 10.1530/EJE-12-0981.
124. Stiegler P, Cunliffe A. The role of diet and exercise for the maintenance of fat-free mass and resting metabolic rate during weight loss. Sports Med 2006; 36(3):239–62. doi: 10.2165/00007256-200636030-00005.
125. McGovern L, Johnson JN, Paulo R, Hettinger A, Singhal V, Kamath C *et al.* Clinical review: treatment of pediatric obesity: a systematic review and meta-analysis of randomized trials. J Clin Endocrinol Metab 2008; 93(12):4600–5. doi: 10.1210/jc.2006-2409.
126. Wing RR, Phelan S. Long-term weight loss maintenance. The American Journal of Clinical Nutrition 2005; 82(1 Suppl):222S–225S. doi: 10.1093/ajcn/82.1.222S.