



Welcome to the latest issue of the weekly Obesity Knowledge Update from Public Health England. This bulletin highlights new research relating to obesity and its determinants.

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## UK and Ireland

[A collaborative approach to developing sustainable behaviour change interventions for childhood obesity prevention: Development of the Choosing Healthy Eating for Infant Health \(CHErIsh\) intervention and implementation strategy.](#) Toomey E, Matvienko-Sikar K, Doherty E, Harrington J, Hayes CB, Heary C, Hennessy M, Kelly C, McHugh S, McSharry J, O'Halloran J, Queally M, Heffernan T, Kearney PM, Byrne M. *Br J Health Psychol.* 2020 Jan 30. doi: 10.1111/bjhp.12407.

[A core outcome set for trials of infant-feeding interventions to prevent childhood obesity.](#) Matvienko-Sikar K, Griffin C, Kelly C, Heary C, Lillholm Pico Pedersen M, McGrath N, Toomey E, Harrington J, Hennessy M, Queally M, Hayes C, McSharry J, Devane D, Byrne M, Kearney PM. *Int J Obes (Lond).* 2020 Jan 29. doi: 10.1038/s41366-020-0538-2.

[To what extent do unhealthy behaviour indicators explain the neighbourhood deprivation gradient in overweight among 11-year-old English children?](#) Noonan RJ. *SSM Popul Health.* 2020 Jan 11;10:100541. doi: 10.1016/j.ssmph.2020.100541.

[Effectiveness and cost-effectiveness of The Daily Mile on childhood weight outcomes and wellbeing: a cluster randomised controlled trial.](#) Breheny K, Passmore S, Adab P, Martin J, Hemming K, Lancashire ER, Frew E. *Int J Obes (Lond).* 2020 Jan 28. doi: 10.1038/s41366-019-0511-0.

[Evidence from big data in obesity research: international case studies.](#) Wilkins E, Aravani A, Downing A, Drewnowski A, Griffiths C, Zwolinsky S, Birkin M, Albanides S, Morris MA. *Int J Obes (Lond).* 2020 Jan 27. doi: 10.1038/s41366-020-0532-8.

[Referral to Slimming World in UK Stop Smoking Services \(SWISS\) versus stop smoking support alone on body weight in quitters: results of a randomised controlled trial.](#) Lycett D, Aveyard P, Farmer A, Lewis A, Munafò M. *BMJ Open.* 2020 Jan 26;10(1):e032271. doi: 10.1136/bmjopen-2019-032271.

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## International

Elucidating the role of overweight and obesity in racial and ethnic disparities in cesarean delivery risk. Glazer KB, Danilack VA, Werner EF, Field AE, Savitz DA. *Ann Epidemiol*. 2020 Jan 7. pii: S1047-2797(19)30193-0. doi: 10.1016/j.annepidem.2019.12.012.

The Healthy Hawai'i Initiative: insights from two decades of building a culture of health in a multicultural state. Agner J, Pirkle CM, Irvin L, Maddock JE, Buchthal OV, Yamauchi J, Starr R, Sentell T. *BMC Public Health*. 2020 Jan 31;20(1):141. doi: 10.1186/s12889-019-8078-1.

Socioeconomic disadvantage and health in early childhood: a population-based birth cohort study from Portugal. Ribeiro AI, Fraga S, Correia-Costa L, McCrory C, Barros H. *Pediatr Res*. 2020 Jan 31. doi: 10.1038/s41390-020-0786-9.

Morbid obesity and mortality in patients with venous thromboembolism. Findings from real life clinical practice. Giorgi-Pierfranceschi M, Núñez JLL, Monreal M, Cattabiani C, Lodigiani C, Di Micco P, Bikdeli B, Braester A, Soler S, Dentali F. *Chest*. 2020 Jan 28. pii: S0012-3692(20)30132-X. doi: 10.1016/j.chest.2019.12.040.

Physical Activity, Sleep, Body Mass Index, and Associated Risk of Behavioral and Emotional Problems in Childhood. Slykerman RF, Budd C, Thompson JMD, Bekker M, Buckley J, Wall C, Murphy R, Mitchell EA, Waldie KE. *J Dev Behav Pediatr*. 2020 Jan 30. doi: 10.1097/DBP.0000000000000754.

Fast food intake and excess weight gain over a 1-year period among preschool-age children. Emond JA, Longacre MR, Titus LJ, Hendricks K, Drake KM, Carroll JE, Cleveland LP, Dalton MA. *Pediatr Obes*. 2020 Jan 31:e12602. doi: 10.1111/ijpo.12602.

Impact of ambulatory SBP and overweight on executive function performance in children and adolescents. Chrysaidou K, Kotsis V, Chainoglou A, Tzovaras F, Gidaris D, Chatzipapa N, Zafeiriou D, Stabouli S. *J Hypertens*. 2020 Jan 30. doi: 10.1097/HJH.0000000000002371.

Effectiveness of an Intensive Weight-Loss Program for Severe Obstructive Sleep Apnea Syndrome (OSA) in Patients Undergoing CPAP Treatment: A Randomized Controlled Trial. López-Padrós C, Salord N, Alves C, Vilarrasa N, Gasa M, Planas R, Montserrat M, Virgili MN, Rodríguez C, Pérez-Ramos S, López-Cadena E, Ramos MI, Dorca J, Monasterio C. *J Clin Sleep Med*. 2020 Jan 31. doi: 10.5664/jcsm.8252.

Impact of changes in physical activity or BMI on risk of heart failure in women - the prospective population study of women in Gothenburg. Halldin AK, Lissner L, Lernfelt B, Björkelund C. *Scand J Prim Health Care*. 2020 Jan 31:1-10. doi: 10.1080/02813432.2020.1717083.

The relationship between obesity and dental caries according to life style factors in schoolchildren: a case-control study. Bulut H, Bulut G. *Acta Odontol Scand*. 2020 Jan 31:1-7. doi: 10.1080/00016357.2020.1720799.

Interoceptive reliance as a major determinant of emotional eating in adult obesity. Willem C, Nandrino JL, Doba K, Roussel M, Triquet C, Verkindt H, Pattou F, Gandolphe MC. *J Health Psychol*. 2020 Jan 31:1359105320903093. doi: 10.1177/1359105320903093.

Four main barriers to weight loss maintenance? A quantitative analysis of difficulties experienced by obese patients after successful weight reduction. Fischer M, Oberänder N, Weimann A. *Eur J Clin Nutr*. 2020 Jan 30. doi: 10.1038/s41430-020-0559-x.

Exploring the Relationship Between MyPlate Knowledge, Perceived Diet Quality, and Healthy Eating Behaviors Among Adolescents. Westfall M, Roth SE, Gill M, Chan-Golston AM, Rice LN, Crespi CM, Prelip ML. *Am J Health Promot.* 2020 Jan 31;890117120901430. doi: 10.1177/0890117120901430.

Collateral Damage: Maternal Obesity During Pregnancy Continues to Rise. Davis AM. *Obstet Gynecol Surv.* 2020 Jan;75(1):39-49. doi: 10.1097/OGX.0000000000000734.

Early-phase study of a telephone-based intervention to reduce weight regain among bariatric surgery patients. Voils CI, Adler R, Strawbridge E, Grubber J, Allen KD, Olsen MK, McVay MA, Raghavan S, Raffa SD, Funk LM. *Health Psychol.* 2020 Jan 30. doi: 10.1037/hea0000835.

Cooperation behaviour of primary care paediatricians: facilitators and barriers to multidisciplinary obesity management. Brügger F, Gellert P, Baer NR, Jödicke B, Brauchmann J, Wiegand S, Schenk L. *Eur J Public Health.* 2020 Jan 30. pii: ckz244. doi: 10.1093/eurpub/ckz244.

Sociodemographic and Lifestyle Factors in relation to Overweight Defined by BMI and "Normal-Weight Obesity". Ohlsson B, Manjer J. *J Obes.* 2020 Jan 7;2020:2070297. doi: 10.1155/2020/2070297.

The Impact of Social Media Influencers on Children's Dietary Behaviors. Smit CR, Buijs L, van Woudenberg TJ, Bevelander KE, Buijzen M. *Front Psychol.* 2020 Jan 10;10:2975. doi: 10.3389/fpsyg.2019.02975.

Nutrition Policies, Practices, and Environments in Low-Income Georgia Elementary Schools, United States, 2015-2017. Guglielmo D, Chantaprasopsuk S, Kay CM, Hyde ET, Stewart C, Gazmararian JA. *J Sch Health.* 2020 Jan 29. doi: 10.1111/josh.12874.

The association between fitness and obesity in diverse multi-ethnic college students. McEligot AJ, Mitra S, Beam W. *J Am Coll Health.* 2020 Jan 29;1-8. doi: 10.1080/07448481.2019.1665054.

Quality of Meals Consumed by US Adults at Full-Service and Fast-Food Restaurants, 2003-2016: Persistent Low Quality and Widening Disparities. Liu J, Rehm CD, Micha R, Mozaffarian D. *J Nutr.* 2020 Jan 29. pii: nxz299. doi: 10.1093/jn/nxz299.

Parental misperception of their child's weight status and how weight underestimation is associated with childhood obesity. Rodrigues D, Machado-Rodrigues AM, Padez C. *Am J Hum Biol.* 2020 Jan 29:e23393. doi: 10.1002/ajhb.23393.

Forever-Fit Summer Camp: The Impact of a 6-Week Summer Healthy Lifestyle Day Camp on Anthropometric, Cardiovascular, and Physical Fitness Measures in Youth With Obesity. El Mikati HK, Boateng AO, McKinney BM, Haberlin-Pittz K, Pike J, Perry P, Hannon TS, Yazel-Smith L. *J Prim Care Community Health.* 2020 Jan-Dec;11:2150132720903888. doi: 10.1177/2150132720903888.

Association between daily TV time and physical fitness in 6- to 14-year-old Austrian youth. Greier K, Drenowatz C, Ruedl G, Riechelmann H. *Transl Pediatr.* 2019 Dec;8(5):371-377. doi: 10.21037/tp.2019.03.03.

Socioeconomic status, remoteness and tracking of nutritional status from childhood to adulthood in an Australian Aboriginal Birth Cohort: the ABC study. Sjöholm P, Pahkala K, Davison B, Juonala M, Singh G. *BMJ Open.* 2020 Jan 27;10(1):e033631. doi: 10.1136/bmjopen-2019-033631.

Low priority of obesity education leads to lack of medical students' preparedness to effectively treat patients with obesity: results from the U.S. medical school obesity education curriculum benchmark study. Butsch WS, Kushner RF, Alford S, Smolarz BG. BMC Med Educ. 2020 Jan 28;20(1):23. doi: 10.1186/s12909-020-1925-z.

Discussing overweight in children during a regular consultation in general practice: a qualitative study. van der Maas JC, Corbee RJ, Kroese FM, de Ridder DTD, Vos RC, Nielen M, Monninkhof E. BMC Fam Pract. 2020 Jan 28;21(1):18. doi: 10.1186/s12875-020-1088-3.

Flexible age-period-cohort modelling illustrated using obesity prevalence data. Dobson A, Hockey R, Chan HW, Mishra G. BMC Med Res Methodol. 2020 Jan 28;20(1):16. doi: 10.1186/s12874-020-0904-8.

The ability to benefit from an intervention to encourage use of treadmill workstations: Experiences of office workers with overweight or obesity. Bergman F, Edin K, Renklint R, Olsson T, Sörlin A. PLoS One. 2020 Jan 28;15(1):e0228194. doi: 10.1371/journal.pone.0228194.

Disease burden of adverse childhood experiences across 14 states. Waehrer GM, Miller TR, Silverio Marques SC, Oh DL, Burke Harris N. PLoS One. 2020 Jan 28;15(1):e0226134. doi: 10.1371/journal.pone.0226134.

Factors associated with Advanced Bone Age in Overweight and Obese Children. Oh MS, Kim S, Lee J, Lee MS, Kim YJ, Kang KS. Pediatr Gastroenterol Hepatol Nutr. 2020 Jan;23(1):89-97. doi: 10.5223/pghn.2020.23.1.89.

An Update on Mental Health Problems and Cognitive Behavioral Therapy in Pediatric Obesity. Kang NR, Kwack YS. Pediatr Gastroenterol Hepatol Nutr. 2020 Jan;23(1):15-25. doi: 10.5223/pghn.2020.23.1.15.

Prevalence of overweight, obesity and abdominal obesity in the Spanish population aged 3 to 24 years. The ENPE study. Aranceta-Bartrina J, Gianzo-Citores M, Pérez-Rodrigo C. Rev Esp Cardiol (Engl Ed). 2020 Jan 24. pii: S1885-5857(19)30397-4. doi: 10.1016/j.rec.2019.07.023.

The WORD: Outcomes of a Behavioral Weight Loss Maintenance Effectiveness Trial in Rural Black Adults of Faith. Yeary KHK, Cornell CE, Moore PC, Gauss CH, Prewitt TE, Turner J. Obesity (Silver Spring). 2020 Jan 27. doi: 10.1002/oby.22717.

State Lawmaker's Views on Childhood Obesity and Related School Wellness Legislation. Killian CM, Kern BD, Ellison DW, Graber KC, Woods AM. J Sch Health. 2020 Jan 27. doi: 10.1111/josh.12871.

Sleep Extension Increases the Effect of Caloric Restriction Over Body Weight and Improves the Chronic Low-Grade Inflammation in Adolescents With Obesity. Moreno-Frías C, Figueroa-Vega N, Malacara JM. J Adolesc Health. 2020 Jan 23. pii: S1054-139X(19)30871-7. doi: 10.1016/j.jadohealth.2019.11.301.

Job-Related Characteristics and Obesity in Australian Employees: Evidence From a Longitudinal Nationally Representative Sample. Keramat SA, Alam K, Gow J, Biddle SJH. Am J Health Promot. 2020 Jan 27:890117119901093. doi: 10.1177/0890117119901093.

The association between sugar-sweetened beverages intake, body mass index, and inflammation in US adults. Lin WT, Kao YH, Sothorn MS, Seal DW, Lee CH, Lin HY, Chen T, Tseng TS. Int J Public Health. 2020 Jan 25. doi: 10.1007/s00038-020-01330-5.

[Week-to-week predictors of weight loss and regain.](#) Ross KM, Qiu P, You L, Wing RR. Health Psychol. 2019 Dec;38(12):1150-1158. doi: 10.1037/hea0000798.

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## **Systematic reviews**

[Access to public transport and childhood obesity: A systematic review.](#) Xu F, Jin L, Qin Z, Chen X, Xu Z, He J, Wang Z, Ji W, Ren F, Du Q, Xiong Y, Jia P. Obes Rev. 2020 Jan 30. doi: 10.1111/obr.12987.

[Traffic-related environmental factors and childhood obesity: A systematic review and meta-analysis.](#) Wang Z, Zhao L, Huang Q, Hong A, Yu C, Xiao Q, Zou B, Ji S, Zhang L, Zou K, Ning Y, Zhang J, Jia P. Obes Rev. 2020 Jan 30. doi: 10.1111/obr.12995.

[The Association Between Weight-Based Teasing from Peers and Family in Childhood and Depressive Symptoms in Childhood and Adulthood: A Systematic Review.](#) Szwimer E, Mougharbel F, Goldfield GS, Alberga AS. Curr Obes Rep. 2020 Jan 30. doi: 10.1007/s13679-020-00367-0.

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