



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 - 2
- International - 33
- Systematic reviews - 1

UK and Ireland

[Are environmental area characteristics at birth associated with overweight and obesity in school-aged children? Findings from the SLOPE \(Studying Lifecourse Obesity PrEdictors\) population-based cohort in the south of England.](#) Wilding S, Ziauddin N, Smith D, Roderick P, Chase D, Alwan NA. *BMC Med.* 2020 Mar 19;18(1):43. doi: 10.1186/s12916-020-01513-0.

[An app-, web- and social support-based weight loss intervention for adults with obesity: the HelpMeDolt! feasibility RCT.](#) Simpson SA, Matthews L, Pugmire J, McConnachie A, McIntosh E, Coulman E, Hughes K, Kelson M, Morgan-Trimmer S, Murphy S, Utkina-Macaskill O, Moore L. Southampton (UK): NIHR Journals Library; 2020 Mar.

[\[back to top\]](#)

International

[The High Obesity Program: Overview of the Centers for Disease Control and Prevention and Cooperative Extension Services Efforts to Address Obesity.](#) Murriel AL, Kahin S, Pejavara A, O'Toole T. *Prev Chronic Dis.* 2020 Mar 19;17:E25. doi: 10.5888/pcd17.190235.

[Using confidence interval-based estimation of relevance to explore bottom-up and top-down determinants of problematic eating behavior in children and adolescents with obesity from a dual pathway perspective.](#) Vervoort L, Naets T, De Guchtenaere A, Tanghe A, Braet C. *Appetite.* 2020 Mar 17:104676. doi: 10.1016/j.appet.2020.104676.

[Recent changes in the Dutch foodscape: socioeconomic and urban-rural differences.](#) Pinho MGM, Mackenbach JD, den Braver NR, Beulens JJW, Brug J, Lakerveld J. *Int J Behav Nutr Phys Act.* 2020 Mar 20;17(1):43. doi: 10.1186/s12966-020-00944-5.

[Food and Beverage Advertising to Children and Adolescents on Television: A Baseline Study.](#) Pinto A, Pauzé E, Mutata R, Roy-Gagnon MH, Potvin Kent M. *Int J Environ Res Public Health.* 2020 Mar 18;17(6). pii: E1999. doi: 10.3390/ijerph17061999.

Primary prevention efforts are poorly developed in people at high cardiovascular risk: A report from the European Society of Cardiology EURObservational Research Programme EUROASPIRE V survey in 16 European countries. Kotseva K, De Backer G, De Bacquer D, Rydén L, Hoes A, Grobbee D, Maggioni A, Marques-Vidal P, Jennings C, Abreu A, Aguiar C, Badariene J, Bruthans J, Cifkova R, Davletov K, Dilic M, Dolzhenko M, Gaita D, Gotcheva N, Hasan-Ali H, Jankowski P, Lionis C, Mancas S, Milićić D, Mirrakhimov E, Oganov R, Pogosova N, Reiner Ž, Vulić D, Wood D. Eur J Prev Cardiol. 2020 Mar 20;2047487320908698. doi: 10.1177/2047487320908698.

Automatic, wearable-based, in-field eating detection approaches for public health research: a scoping review. Bell BM, Alam R, Alshurafa N, Thomaz E, Mondol AS, de la Haye K, Stankovic JA, Lach J, Spruijt-Metz D. NPJ Digit Med. 2020 Mar 13;3:38. doi: 10.1038/s41746-020-0246-2.

Beyond recent BMI: BMI exposure metrics and their relationship to health. Ng CD, Elliott MR, Riosmena F, Cunningham SA. SSM Popul Health. 2020 Mar 2;11:100547. doi: 10.1016/j.ssmph.2020.100547.

Differences in perceived neighborhood environmental supports and barriers for walking between US adults with and without a disability. Omura JD, Hyde ET, Whitfield GP, Hollis ND, Fulton JE, Carlson SA. Prev Med. 2020 Mar 16;106065. doi: 10.1016/j.ypmed.2020.106065.

Circadian regulation of appetite and time restricted feeding. Page AJ, Christie S, Symonds E, Li H. Physiol Behav. 2020 Mar 16;112873. doi: 10.1016/j.physbeh.2020.112873.

Fighting Weight Bias and Obesity Stigma: a Call for Action. Cohen R, Shikora S. Obes Surg. 2020 Mar 19. doi: 10.1007/s11695-020-04525-0.

Comprehensive genomic analysis of dietary habits in UK Biobank identifies hundreds of genetic associations. Cole JB, Florez JC, Hirschhorn JN. Nat Commun. 2020 Mar 19;11(1):1467. doi: 10.1038/s41467-020-15193-0.

Relationship between trait suggestibility and eating-related behaviors in overweight and obesity. Ray MK, Zachmann AE, Caudill CV, Boggiano MM. Eat Behav. 2020 Mar 2;37:101380. doi: 10.1016/j.eatbeh.2020.101380.

Obesity: Scope, Lifestyle Interventions, and Medical Management. McCafferty BJ, Hill JO, Gunn AJ. Tech Vasc Interv Radiol. 2020 Mar;23(1):100653. doi: 10.1016/j.tvir.2020.100653.

Tracking of Obesity in Childhood into Adulthood: Effects on Body Mass Index and Fat Mass Index at Age 50. Rundle AG, Factor-Litvak P, Suglia SF, Susser ES, Kezios KL, Lovasi GS, Cirillo PM, Cohn BA, Link BG. Child Obes. 2020 Apr;16(3):226-233. doi: 10.1089/chi.2019.0185.

Do differences between individuals who are healthy weight or overweight on self-report measures of disinhibited eating and restrained eating reflect reality or item "bias"? Forbush KT, Song QC, Tay L, Gould SR, Chapa DAN, Cushing CC, Ptomey LT. Psychol Assess. 2020 Mar 19. doi: 10.1037/pas0000810.

The case for action on socioeconomic differences in overweight and obesity among Australian adults: modelling the disease burden and healthcare costs. Gearon E, Backholer K, Lal A, Nusselder W, Peeters A. Aust N Z J Public Health. 2020 Mar 19. doi: 10.1111/1753-6405.12970.

Setting a goal could help you control: Comparing the effect of health goal versus general episodic future thinking on health behaviors among cigarette smokers and obese individuals. Athamneh LN, Stein MD, Lin EH, Stein JS, Mellis AM, Gatchalian KM, Epstein LH, Bickel WK. *Exp Clin Psychopharmacol*. 2020 Mar 19. doi: 10.1037/pha0000351.

Parent preferences for text messages containing infant feeding advice. Brown C, Davis KE, Habiba N, Massey-Stokes M, Warren C. *Mhealth*. 2020 Jan 5;6:9. doi: 10.21037/mhealth.2019.11.03.

Taste sensitivity and lifestyle are associated with food preferences and BMI in children. Rodrigues L, Silverio R, Costa AR, Antunes C, Pomar C, Infante P, Amado F, Lamy E. *Int J Food Sci Nutr*. 2020 Mar 18:1-9. doi: 10.1080/09637486.2020.1738354.

Participant Experiences of an Infant Obesity Prevention Program Delivered via Telephone Calls or Text Messages. Ekambareshwar M, Taki S, Mihrshahi S, Baur LA, Rissel C, Wen LM. *Healthcare (Basel)*. 2020 Mar 16;8(1). pii: E60. doi: 10.3390/healthcare8010060.

Association of childhood obesity with risk of early all-cause and cause-specific mortality: A Swedish prospective cohort study. Lindberg L, Danielsson P, Persson M, Marcus C, Hagman E. *PLoS Med*. 2020 Mar 18;17(3):e1003078. doi: 10.1371/journal.pmed.1003078.

Time Trends and Sociodemographic Factors Associated With Overweight and Obesity in Children and Adolescents in Spain. de Bont J, Díaz Y, Casas M, García-Gil M, Vrijheid M, Duarte-Salles T. *JAMA Netw Open*. 2020 Mar 2;3(3):e201171. doi: 10.1001/jamanetworkopen.2020.1171.

One Size Does Not Fit All: Sociodemographic Factors Affecting Weight Loss in Adolescents. Cummins CB, Bowen-Jallow K, Tasnim S, Prochaska J, Jupiter D, Wright A, Hughes BD, Nunez-Lopez O, Lyons E, Glaser A, Radhakrishnan RS, Thompson D, Suman OE. *J Obes*. 2020 Feb 21;2020:3736504. doi: 10.1155/2020/3736504.

Predicting limiting 'free sugar' consumption using an integrated model of health behavior. Phipps DJ, Hagger MS, Hamilton K. *Appetite*. 2020 Mar 14:104668. doi: 10.1016/j.appet.2020.104668.

Variations in accelerometry measured physical activity and sedentary time across Europe - harmonized analyses of 47,497 children and adolescents. Steene-Johannessen J, Hansen BH, Dalene KE, Kolle E, Northstone K, Møller NC, Grøntved A, Wedderkopp N, Kriemler S, Page AS, Puder JJ, Reilly JJ, Sardinha LB, van Sluijs EMF, Andersen LB, van der Ploeg H, Ahrens W, Flexeder C, Standl M, Shulz H, Moreno LA, De Henauw S, Michels N, Cardon G, Ortega FB, Ruiz J, Aznar S, Fogelholm M, Decelis A, Olesen LG, Hjorth MF, Santos R, Vale S, Christiansen LB, Jago R, Basterfield L, Owen CG, Nightingale CM, Eiben G, Polito A, Lauria F, Vanhelst J, Hadjigeorgiou C, Konstabel K, Molnár D, Sprengeler O, Manios Y, Harro J, Kafatos A, Anderssen SA, Ekelund U; Determinants of Diet and Physical Activity knowledge hub (DEDIPAC); International Children's Accelerometry Database (ICAD) Collaborators, IDEFICS Consortium and HELENA Consortium. *Int J Behav Nutr Phys Act*. 2020 Mar 18;17(1):38. doi: 10.1186/s12966-020-00930-x.

The association between body mass index trajectories and cardiometabolic risk in young children. Li X, Keown-Stoneman CDG, Lebovic G, Omand JA, Adeli K, Hamilton JK, Hanley AJ, Mamdani M, McCrindle BW, Sievenpiper JL, Tremblay MS, Maguire JL, Parkin PC, Birken CS; TARGet Kids! Collaboration. *Pediatr Obes*. 2020 Mar 17:e12633. doi: 10.1111/ijpo.12633.

A digital health weight-loss intervention in severe obesity. Senecal C, Collazo-Clavell M, Larrabee BR, de Andrade M, Lin W, Chen B, Lerman LO, Lerman A, Lopez-Jimenez F. *Digit Health.* 2020 Mar 4;6:2055207620910279. doi: 10.1177/2055207620910279.

Binge eating and binge drinking: a two-way road? An integrative review. Escrivá-Martínez T, Herrero R, Molinari G, Rodríguez-Arias M, Verdejo-García A, Baños RM. *Curr Pharm Des.* 2020 Mar 16. doi: 10.2174/1381612826666200316153317.

Effects of a weight control intervention based on the transtheoretical model on physical activity and psychological variables in middle-aged obese women. Kim Y, Kang S. *J Women Aging.* 2020 Mar 15:1-13. doi: 10.1080/08952841.2020.1728183.

Lean body mass is the strongest anthropometric predictor of left ventricular mass in the obese paediatric population. Shea JR, Henshaw MH, Carter J, Chowdhury SM. *Cardiol Young.* 2020 Mar 16:1-6. doi: 10.1017/S1047951120000311.

A new anthropometric index to predict percent body fat in young adults. Yang HI, Cho W, Ahn KY, Shin SC, Kim JH, Yoo S, Park YI, Lee EY, Lee DH, Spence JC, Jeon JY. *Public Health Nutr.* 2020 Mar 16:1-8. doi: 10.1017/S1368980019004191.

A downturn or a window of opportunity? How Danish and French parents perceive changes in healthy eating in the transition to parenthood. Moura AF, Aschemann-Witzel J. *Appetite.* 2020 Mar 11:104658. doi: 10.1016/j.appet.2020.104658.

Examining the Role of Weight Status and Individual Attributes on Adolescent Social Relations. Jacobs W, Merianos AL, Lee Smith M, Nabors L, Fajayan A, Valente TW. *J Adolesc Health.* 2020 Mar 11. pii: S1054-139X(20)30041-0. doi: 10.1016/j.jadohealth.2020.01.014.

[back to top]

Systematic reviews

Evidence for enhancing childhood obesity treatment from a dual-process perspective: A systematic literature review. Kemps E, Goossens L, Petersen J, Verbeken S, Vervoort L, Braet C. *Clin Psychol Rev.* 2020 Apr;77:101840. doi: 10.1016/j.cpr.2020.101840.

[back to top]