



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.

If you do not wish to receive further Obesity Knowledge Updates, please [click here to unsubscribe](#). You will continue to receive other Obesity Intelligence emails (notification of new resources etc.).

- UK and Ireland - 2
- International - 37
- Systematic reviews - 8

UK and Ireland

Weight perceptions in older adults: findings from the English Longitudinal Study of Ageing.
Jackson SE, Smith L, Steptoe A. BMJ Open. 2020 Feb 9;10(2):e033773. doi: 10.1136/bmjopen-2019-033773.

Accelerometer compared with questionnaire measures of physical activity in relation to body size and composition: a large cross-sectional analysis of UK Biobank. Guo W, Key TJ, Reeves GK. BMJ Open. 2019 Jan 29;9(1):e024206. doi: 10.1136/bmjopen-2018-024206.

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

International

Reductions to main meal portion sizes reduce daily energy intake regardless of perceived normality of portion size: a 5 day cross-over laboratory experiment. Haynes A, Hardman CA, Halford JCG, Jebb SA, Mead BR, Robinson E. Int J Behav Nutr Phys Act. 2020 Feb 12;17(1):21. doi: 10.1186/s12966-020-0920-4.

The EAT-Lancet Commission's Dietary Composition May Not Prevent Noncommunicable Disease Mortality. Zagmutt FJ, Pouzou JG, Costard S. J Nutr. 2020 Feb 15. pii: nxaa020. doi: 10.1093/jn/nxaa020.

Impact of Changes in Chain Restaurant Calories over Time on Obesity Risk. Bleich SN, Jones-Smith JC, Jarlenski MP, Wolfson JA, Frelier JM, Tao H, Hu Y, Zink A, Dunn CG, Soto MJ, Herring BJ. J Gen Intern Med. 2020 Feb 14. doi: 10.1007/s11606-020-05683-8.

Do healthy doctors deliver better messages of health promotion to their patients?: Data from the SUN cohort study. Carlos S, Rico-Campà A, de la Fuente-Arrillaga C, Echavarri M, Fernandez-Montero A, Gea A, Salazar C, Martínez-González MA. Eur J Public Health. 2020 Feb 14. pii: ckaa019. doi: 10.1093/eurpub/ckaa019.

A cross-country exploratory study to investigate the labelling, energy, carbohydrate and sugar content of formula milk products marketed for infants. Bridge G, Lomazzi M, Bedi R. Br Dent J. 2020 Feb;228(3):198-212. doi: 10.1038/s41415-020-1252-0.

Stability and Change in Health Behavior Profiles of U.S. Adults. Burgard SA, Lin KYP, Segal BD, Elliott MR, Seelye S. *J Gerontol B Psychol Sci Soc Sci*. 2020 Feb 14;75(3):674-683. doi: 10.1093/geronb/gby088.

The association of body mass index and severe early childhood caries in young children in Winnipeg, Manitoba: a cross-sectional study. Kennedy T, Rodd C, Daymont C, Grant CG, Mittermuller BA, Pierce A, Moffatt ME, Schroth RJ. *Int J Paediatr Dent*. 2020 Feb 14. doi: 10.1111/ipd.12629.

Time-trends and correlates of obesity in Czech adolescents in relation to family socioeconomic status over a 16-year study period (2002-2018). Sigmund E, Sigmundová D, Badura P, Voráčová J, Vladimír H Jr, Hollein T, Pavelka J, Půžová Z, Kalman M. *BMC Public Health*. 2020 Feb 13;20(1):229. doi: 10.1186/s12889-020-8336-2.

Geospatial Monitoring of Body Mass Index: Use of Electronic Health Record Data Across Health Care Systems. Anthamatten P, Thomas DSK, Williford D, Barrow JC, Bol KA, Davidson AJ, Deakyne Davies SJ, Kraus EM, Tabano DC, Daley MF. *Public Health Rep*. 2020 Feb 13:33354920904078. doi: 10.1177/003354920904078.

The contribution of obesity to the population burden of high metabolic cardiovascular risk among different ethnic groups. The HELIUS study. Perini W, van Valkengoed IGM, Snijder MB, Peters RJG, Kunst AE. *Eur J Public Health*. 2020 Feb 13. pii: ckz190. doi: 10.1093/eurpub/ckz190.

Weight stigma as a psychosocial contributor to obesity. Puhl RM, Himmelstein MS, Pearl RL. *Am Psychol*. 2020 Feb-Mar;75(2):274-289. doi: 10.1037/amp0000538.

How psychological insights can inform food policies to address unhealthy eating habits. Roberto CA. *Am Psychol*. 2020 Feb-Mar;75(2):265-273. doi: 10.1037/amp0000554.

Lifestyle modification approaches for the treatment of obesity in adults. Wadden TA, Tronieri JS, Butrym ML. *Am Psychol*. 2020 Feb-Mar;75(2):235-251. doi: 10.1037/amp0000517.

Summary of the clinical practice guideline for multicomponent behavioral treatment of obesity and overweight in children and adolescents. Guideline Development Panel for Treatment of Obesity, American Psychological Association. *Am Psychol*. 2020 Feb-Mar;75(2):178-188. doi: 10.1037/amp0000530.

Examining childhood obesity through the lens of developmental psychopathology: Framing the issues to guide best practices in research and intervention. Bohnert AM, Loren DM, Miller AL. *Am Psychol*. 2020 Feb-Mar;75(2):163-177. doi: 10.1037/amp0000581.

Behavioral and social routines and biological rhythms in prevention and treatment of pediatric obesity. Hart CN, Jelalian E, Raynor HA. *Am Psychol*. 2020 Feb-Mar;75(2):152-162. doi: 10.1037/amp0000599.

Choice is relative: Reinforcing value of food and activity in obesity treatment. Carr KA, Epstein LH. *Am Psychol*. 2020 Feb-Mar;75(2):139-151. doi: 10.1037/amp0000521

Association Between Body Mass Index and Dental Caries in a Turkish Subpopulation of Adults: A Cross-Sectional Study. Akarsu S, Karademir SA. *Oral Health Prev Dent*. 2020;18(1):85-89. doi: 10.3290/j.ohpd.a43935.

Prevalence of Obesity in Elementary School Children and its Association with Dental Caries. Serrano-Piña R, Aguilar-Ayala FJ, Scougall-Vilchis RJ, Trujillo-Güiza ML, Mendieta-Zerón H. *Oral Health Prev Dent*. 2020;18(1):35-42. doi: 10.3290/j.ohpd.a43366.

Health and the built environment in United States cities: measuring associations using Google Street View-derived indicators of the built environment. Keralis JM, Javanmardi M, Khanna S, Dwivedi P, Huang D, Tasdizen T, Nguyen QC. *BMC Public Health*. 2020 Feb 12;20(1):215. doi: 10.1186/s12889-020-8300-1.

Socio-ecological determinants of lifestyle behavior of women with overweight or obesity before, during and after pregnancy: qualitative interview analysis in the Netherlands. Timmermans YEG, van de Kant KDG, Krumeich JSM, Zimmermann LJI, Dompeling E, Kramer BW, Maassen LLJ, Spaandermaan MAE, Vreugdenhil ACE. *BMC Pregnancy Childbirth*. 2020 Feb 12;20(1):105. doi: 10.1186/s12884-020-2786-5.

Exposure to Food and Beverage Advertising on Television among Canadian Adolescents, 2011 to 2016. Czoli CD, Pauzé E, Potvin Kent M. *Nutrients*. 2020 Feb 7;12(2). pii: E428. doi: 10.3390/nu12020428.

Influences of Parental Snacking-Related Attitudes, Behaviours and Nutritional Knowledge on Young Children's Healthy and Unhealthy Snacking: The ToyBox Study. Gibson EL, Androutsos O, Moreno L, Flores-Barrantes P, Socha P, Iotova V, Cardon G, De Bourdeaudhuij I, Koletzko B, Skripkauskaitė S, Manios Y, On Behalf Of The Toybox-Study Group. *Nutrients*. 2020 Feb 7;12(2). pii: E432. doi: 10.3390/nu12020432.

Bullying Victimization Profiles of School-Aged Adolescents and Associations With Weight Statuses: A Latent Class Analysis. Lee J, Hong JS, Tan K, Pineros-Leano M, Baek SA. *J Interpers Violence*. 2020 Feb 11:886260520905087. doi: 10.1177/0886260520905087.

Push Notifications From a Mobile App to Improve the Body Composition of Overweight or Obese Women: Randomized Controlled Trial. Hernández-Reyes A, Cámará-Martos F, Molina Recio G, Molina-Luque R, Romero-Saldaña M, Moreno Rojas R. *JMIR Mhealth Uhealth*. 2020 Feb 12;8(2):e13747. doi: 10.2196/13747.

Evaluation of a pragmatic trial of a collaborative school-based obesity prevention intervention in a low-income urban district. Long MW, Weber MR, Allan MJ, Ma Y, Jin Y, Aldous A, Elliot AJ, Burke H. *Prev Med*. 2020 Feb 8:106020. doi: 10.1016/j.ypmed.2020.106020.

Twelve Weeks of Aerobic Exercise at the Lactate Threshold Improves Autonomic Nervous System Function, Body Composition, and Aerobic Performance in Obese Women. Park HY, Jung WS, Kim J, Hwang H, Lim K. *J Obes Metab Syndr*. 2020 Feb 7. doi: 10.7570/jomes19063.

Three-Month Daily Consumption of Sugar-Sweetened Beverages Affects the Liver, Adipose Tissue, and Glucose Metabolism. Lee G, Han JH, Maeng HJ, Lim S. *J Obes Metab Syndr*. 2020 Feb 7. doi: 10.7570/jomes19042.

Mindfulness affects stress, ghrelin, and BMI of obese children: a clinical trial. López-Alarcón M, Zurita-Cruz JN, Torres-Rodríguez A, Bedia-Mejía K, Pérez-Güemez M, Jaramillo-Villanueva L, Rendón-Macías ME, Fernández JR, Martínez-Maroñas P. *Endocr Connect*. 2020 Feb;9(2):163-172. doi: 10.1530/EC-19-0461.

Sleep duration rather than sleep timing is associated with obesity in adolescents. Sunwoo JS, Yang KI, Kim JH, Koo DL, Kim D, Hong SB. *Sleep Med*. 2020 Jan 11;68:184-189. doi: 10.1016/j.sleep.2019.12.014.

The Politics of Taxes for Health: An Analysis of the Passage of the Sugar-Sweetened Beverage Tax in Mexico. James E, Lajous M, Reich MR. *Health Syst Reform*. 2020;6(1):e1669122. doi: 10.1080/23288604.2019.1669122.

Predictors for continued participation of employees in structured outpatient obesity intervention programmes. Sammito S, Prigge M, Latza U. Prev Med Rep. 2020 Jan 18;17:101051. doi: 10.1016/j.pmedr.2020.101051.

Effects of a 30-week combined training program in normoxia and in hypoxia on exercise performance and health-related parameters in obese adolescents: a pilot study. Britto FA, De Groote E, Aranda J, Bullock L, Nielens H, Deldicque L. J Sports Med Phys Fitness. 2020 Feb 4. doi: 10.23736/S0022-4707.20.10190-7.

Youth perspectives on weight-related words used by healthcare professionals: A qualitative study. Stuij M, van Maarschalkerweerd PEA, Seidell JC, Halberstadt J, Dedding C. Child Care Health Dev. 2020 Feb 10. doi: 10.1111/cch.12760.

Disentangling Race, Poverty, and Place to Understand the Racial Disparity in Waist Circumference among Women. Bower K, Samuel L, Gleason K, Thorpe RJ, Gaskin D. J Health Care Poor Underserved. 2020;31(1):153-170. doi: 10.1353/hpu.2020.0015.

Strategies to improve the implementation of healthy eating, physical activity and obesity prevention policies, practices or programmes within childcare services. Wolfenden L, Barnes C, Jones J, Finch M, Wyse RJ, Kingsland M, Tzelepis F, Grady A, Hodder RK, Booth D, Yoong SL. Cochrane Database Syst Rev. 2020 Feb 10;2:CD011779. doi: 10.1002/14651858.CD011779.pub3.

Obesity and falls in older women: Mediating effects of muscle quality, foot loads and postural control. Neri SGR, Harvey LA, Tiedemann A, Gadelha AB, Lima RM. Gait Posture. 2020 Feb 1;77:138-143. doi: 10.1016/j.gaitpost.2020.01.025.

[back to top]

Systematic reviews

Impact of weight loss interventions on patient-reported outcomes in overweight and obese adults with type 2 diabetes: a systematic review. Martenstyn J, King M, Rutherford C. J Behav Med. 2020 Feb 14. doi: 10.1007/s10865-020-00140-7.

Intermittent fasting and weight loss: Systematic review. Welton S, Minty R, O'Driscoll T, Willms H, Poirier D, Madden S, Kelly L. Can Fam Physician. 2020 Feb;66(2):117-125.

Maternal stress in the first 1000 days and risk of childhood obesity: a systematic review. Matvienko-Sikar K, Cooney J, Flannery C, Murphy J, Khashan A, Huizink A. J Reprod Infant Psychol. 2020 Feb 11:1-25. doi: 10.1080/02646838.2020.1724917.

Health apps targeting children with overweight-a protocol for a systematic review with meta-analysis and Trial Sequential Analysis of randomised clinical trials. Rashid R, Perego P, Condon L, Jakobsen JC, Lindschou J, Gluud C, Andreoni G, Lissau I. Syst Rev. 2020 Feb 11;9(1):28. doi: 10.1186/s13643-020-1269-0.

Successful weight loss maintenance: A systematic review of weight control registries. Paixão C, Dias CM, Jorge R, Carraça EV, Yannakoulia M, de Zwaan M, Soini S, Hill JO, Teixeira PJ, Santos I. Obes Rev. 2020 Feb 12. doi: 10.1111/obr.13003.

A systematic review with meta-analyses of text message-delivered behaviour change interventions for weight loss and weight loss maintenance. Skinner R, Gonet V, Currie S, Hoddinott P, Dombrowski SU. Obes Rev. 2020 Feb 11. doi: 10.1111/obr.12999.

Comparing and assessing physical activity guidelines for children and adolescents: a systematic literature review and analysis. Parrish AM, Tremblay MS, Carson S, Veldman SLC, Cliff D, Vella S, Chong KH, Nacher M, Del Pozo Cruz B, Ellis Y, Aubert S, Spaven B, Sameeha MJ, Zhang Z, Okely AD. *Int J Behav Nutr Phys Act.* 2020 Feb 10;17(1):16. doi: 10.1186/s12966-020-0914-2.

The efficacy of electronic health interventions targeting improved sleep for achieving prevention of weight gain in adolescents and young to middle-aged adults: A systematic review. Allman-Farinelli M, Chen J, Chevance G, Partridge SR, Gemming L, Patrick K, Godino JG. *Obes Rev.* 2020 Feb 10. doi: 10.1111/obr.13006.

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