



Public Health England

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

[The First Thousand Days: early, integrated and evidence-based approaches to improving child health: coming to a population near you?](#) Darling JC, Bamidis PD, Burberry J, Rudolf MCJ. Arch Dis Child. 2020 Feb 28. pii: archdischild-2019-316929. doi: 10.1136/archdischild-2019-316929.

[Brief interventions for obesity when patients are asked to pay for weight loss treatment: an observational study in primary care with an embedded randomised trial.](#) Tudor K, Jebb SA, Manoharan I, Aveyard P. Br J Gen Pract. 2020 Feb 24. pii: bjgp20X708797. doi: 10.3399/bjgp20X708797.

[Exploring the influences on men's engagement with weight loss services: a qualitative study.](#) Elliott M, Gillison F, Barnett J. BMC Public Health. 2020 Feb 25;20(1):249. doi: 10.1186/s12889-020-8252-5.

[Long-Term Evaluation of a UK Community Pharmacy-Based Weight Management Service.](#) Evans G, Wright D. Pharmacy (Basel). 2020 Feb 19;8(1). pii: E22. doi: 10.3390/pharmacy8010022.

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International

['It's not worth the fight': Fathers' perceptions of family mealtime interactions, feeding practices and child eating behaviours.](#) Harris HA, Jansen E, Rossi T. Appetite. 2020 Feb 26;104642. doi: 10.1016/j.appet.2020.104642.

[Past, current, and future willingness to engage with treatment targets: Applying user-centered design to inform the design of a mobile behavioral intervention.](#) Weinheimer EA, Chang A, Neubert SW, Wildes JE, Graham AK. Int J Eat Disord. 2020 Feb 29. doi: 10.1002/eat.23252.

[Nutritional Quality of Fast Food Kids Meals and Their Contribution to the Diets of School-Aged Children.](#) Palos Lucio AG, Sansores Martínez DN, Olvera Miranda C, Quezada Méndez L, Tolentino-Mayo L. Nutrients. 2020 Feb 26;12(3). pii: E612. doi: 10.3390/nu12030612.

Increasing the Price of Alcohol as an Obesity Prevention Measure: The Potential Cost-Effectiveness of Introducing a Uniform Volumetric Tax and a Minimum Floor Price on Alcohol in Australia. Robinson E, Nguyen P, Jiang H, Livingston M, Ananthapavan J, Lal A, Sacks G. *Nutrients*. 2020 Feb 26;12(3). pii: E603. doi: 10.3390/nu12030603.

Quality of Life and Physical Performance in Patients with Obesity: A Network Analysis. Dalle Grave R, Soave F, Ruocco A, Dametti L, Calugi S. *Nutrients*. 2020 Feb 26;12(3). pii: E602. doi: 10.3390/nu12030602.

Calorie restriction for enhanced longevity: The role of novel dietary strategies in the present obesogenic environment. Dorling JL, Martin CK, Redman LM. *Ageing Res Rev*. 2020 Feb 25:101038. doi: 10.1016/j.arr.2020.101038.

Adolescent Physical Activity Disparities by Parent Nativity Status: the Role of Social Support, Family Structure, and Economic Hardship. Vazquez C, Schuler B. *J Racial Ethn Health Disparities*. 2020 Feb 27. doi: 10.1007/s40615-020-00731-9.

The Influence of Removing the Ten-Minute Bout Requirement on National Physical Activity Estimates. Ussery EN, Watson KB, Carlson SA. *Prev Chronic Dis*. 2020 Feb 27;17:E19. doi: 10.5888/pcd17.190321.

Implementing Policy, Systems, and Environmental Change Through Community Coalitions and Extension Partnerships to Address Obesity in Rural Louisiana. Holston D, Stroope J, Cater M, Kendall M, Broyles S. *Prev Chronic Dis*. 2020 Feb 27;17:E18. doi: 10.5888/pcd17.190284.

The Impact of Incentives on Weight Control in Men: A Randomized Controlled Trial. Rounds T, Crane M, Harvey J. *Am J Mens Health*. 2020 Jan-Feb;14(1):1557988319895147. doi: 10.1177/1557988319895147.

Association between overweight, obesity and incidence of advanced dental caries in South Korean adults: A 10-year nationwide population-based observational study. Kim K, Han K, Yang S. *PLoS One*. 2020 Feb 27;15(2):e0229572. doi: 10.1371/journal.pone.0229572.

Pain and emotional eating: further investigation of the Yale Emotional Overeating Questionnaire in weight loss seeking patients. Masheb RM, Douglas ME, Kutz AM, Marsh AG, Driscoll M. *J Behav Med*. 2020 Feb 27. doi: 10.1007/s10865-020-00143-4.

BMI Trajectories from Birth to 23 Years by Cardiometabolic Risks in Young Adulthood. East P, Delker E, Blanco E, Lozoff B, Correa P, Burrows R, Gahagan S. *Obesity (Silver Spring)*. 2020 Feb 28. doi: 10.1002/oby.22754.

Overvaluation of Shape and Weight and Associated Features in Patients Without Eating Disorders Seeking Treatment for Obesity. Dalle Grave R, Misconel A, Fasoli D, Calugi S. *Obesity (Silver Spring)*. 2020 Feb 28. doi: 10.1002/oby.22750.

Optimizing lifestyle interventions in adult patients with comorbid asthma and obesity. Kuder MM, Nyenhuis SM. *Ther Adv Respir Dis*. 2020 Jan-Dec;14:1753466620906323. doi: 10.1177/1753466620906323.

Cross-lagged associations between behaviour problems and obesity in head start preschoolers. Martoccio TL, Senehi N, Brophy-Herb HE, Miller AL, Horodyski MA, Kaciroti N, Contreras D, Peterson KE, Lumeng JC. *Pediatr Obes*. 2020 Feb 26:e12627. doi: 10.1111/ijpo.12627.

Physical fitness and physical activity association with cognitive function and quality of life: baseline cross-sectional analysis of the PREDIMED-Plus trial. Daimiel L, Martínez-González MA, Corella D, Salas-Salvadó J, Schröder H, Vioque J, Romaguera D, Martínez JA, Wärnberg J, Lopez-Miranda J, Estruch R, Cano-Ibáñez N, Alonso-Gómez A, Tur JA, Tinahones FJ, Serra-Majem L, Micó-Pérez RM, Lapetra J, Galdón A, Pintó X, Vidal J, Micó V, Colmenarejo G, Gaforio JJ, Matía P, Ros E, Buil-Cosiales P, Vázquez-Ruiz Z, Sorlí JV, Graniel IP, Cuenca-Royo A, Gisbert-Sellés C, Galmes-Panades AM, Zulet MA, García-Ríos A, Díaz-López A, de la Torre R, Galilea-Zabalza I, Ordovás JM. *Sci Rep.* 2020 Feb 26;10(1):3472. doi: 10.1038/s41598-020-59458-6.

Epidemiology and outcomes of obese critically ill patients in Australia and New Zealand. Secombe P, Woodman R, Chan S, Pilcher D, van Haren F. *Crit Care Resusc.* 2020 Mar;22(1):35-44.

Cardiorespiratory fitness and accelerometer-determined physical activity following one year of free-living high-intensity interval training and moderate-intensity continuous training: a randomized trial. Jung ME, Locke SR, Bourne JE, Beauchamp MR, Lee T, Singer J, MacPherson M, Barry J, Jones C, Little JP. *Int J Behav Nutr Phys Act.* 2020 Feb 26;17(1):25. doi: 10.1186/s12966-020-00933-8.

Defining and identifying predictors of rapid response to pediatric obesity treatment. Eichen DM, Mestre ZL, Strong DR, Rhee KE, Boutelle KN. *Pediatr Obes.* 2020 Feb 25:e12621. doi: 10.1111/ijpo.12621.

Use of a K-nearest neighbors model to predict the development of type 2 diabetes within 2 years in an obese, hypertensive population. Garcia-Carretero R, Vigil-Medina L, Mora-Jimenez I, Soguero-Ruiz C, Barquero-Perez O, Ramos-Lopez J. *Med Biol Eng Comput.* 2020 Feb 26. doi: 10.1007/s11517-020-02132-w.

Influences of Resistance versus Aerobic Exercise on Physiological and Physical Fitness Changes in Previously Inactive Men with Obesity: A Prospective, Single-Blinded Randomized Controlled Trial. Kim B, Kim S. *Diabetes Metab Syndr Obes.* 2020 Feb 4;13:267-276. doi: 10.2147/DMSO.S231981.

Quantity versus quality of objectively measured sleep in relation to body mass index in children: cross-sectional and longitudinal analyses. Taylor RW, Williams SM, Galland BC, Farmer VL, Meredith-Jones KA, Schofield G, Mann JI. *Int J Obes (Lond).* 2020 Feb 25. doi: 10.1038/s41366-020-0552-4.

Childhood dietary patterns and body composition at age 6 years: the Children of SCOPE study. Flynn AC, Thompson JMD, Dalrymple KV, Wall C, Begum S, Pallipadan Johny J, Cutfield WS, North R, McCowan LME, Godfrey KM, Mitchell EA, Poston L. *Br J Nutr.* 2020 Feb 26:1-21. doi: 10.1017/S0007114520000628.

Experimental Studies of Front-of-Package Nutrient Warning Labels on Sugar-Sweetened Beverages and Ultra-Processed Foods: A Scoping Review. Taillie LS, Hall MG, Popkin BM, Ng SW, Murukutla N. *Nutrients.* 2020 Feb 22;12(2). pii: E569. doi: 10.3390/nu12020569.

The Effects of Early Life Stress, Postnatal Diet Modulation, and Long-Term Western-Style Diet on Later-Life Metabolic and Cognitive Outcomes. Abbink MR, Schipper L, Naninck EFG, de Vos CMH, Meier R, van der Beek EM, Lucassen PJ, Korosi A. *Nutrients.* 2020 Feb 22;12(2). pii: E570. doi: 10.3390/nu12020570.

A Population-Based Study of Diabetes During Pregnancy in Spain (2009-2015): Trends in Incidence, Obstetric Interventions, and Pregnancy Outcomes. López-de-Andrés A, Perez-Farinos N, Hernández-Barrera V, Palomar-Gallego MA, Carabantes-Alarcón D, Zamorano-León JJ, de Miguel-Diez J, Jimenez-Garcia R. *J Clin Med.* 2020 Feb 21;9(2). pii: E582. doi: 10.3390/jcm9020582.

Distressed or not distressed? A mixed methods examination of reactions to weight stigma and implications for emotional wellbeing and internalized weight bias. Pudney EV, Himmelstein MS, Puhl RM, Foster GD. *Soc Sci Med.* 2020 Feb 14;249:112854. doi: 10.1016/j.socscimed.2020.112854.

Physical activity rather than sedentary behaviour is socially determined in French adolescents with overweight and obesity. Omorou AY, Manneville F, Langlois J, Legrand K, Böhme P, Muller L, Guillemin F, Briançon S, Lecomte E; PRALIMAP-INÈS Trial Group. *Prev Med.* 2020 Feb 22:106043. doi: 10.1016/j.ypmed.2020.106043.

Temperament as a predictor of eating behavior in middle childhood - A fixed effects approach. Steinsbekk S, Bjørklund O, Llewellyn C, Wichstrøm L. *Appetite.* 2020 Feb 22:104640. doi: 10.1016/j.appet.2020.104640.

Prevention and Management of Childhood Obesity and Its Psychological and Health Comorbidities. Smith JD, Fu E, Kobayashi MA. *Annu Rev Clin Psychol.* 2020 Feb 25. doi: 10.1146/annurev-clinpsy-100219-060201.

Effectiveness of PUSH notifications from a mobile app for improving the body composition of overweight or obese women: a protocol of a three-armed randomized controlled trial. Hernández-Reyes A, Molina-Recio G, Molina-Luque R, Romero-Saldaña M, Cámara-Martos F, Moreno-Rojas R. *BMC Med Inform Decis Mak.* 2020 Feb 24;20(1):40. doi: 10.1186/s12911-020-1058-7.

Food Retail Environments in Greater Melbourne 2008-2016: Longitudinal Analysis of Intra-City Variation in Density and Healthiness of Food Outlets. Needham C, Orellana L, Allender S, Sacks G, Blake MR, Strugnell C. *Int J Environ Res Public Health.* 2020 Feb 19;17(4). pii: E1321. doi: 10.3390/ijerph17041321.

Child-level evaluation of a web-based intervention to improve dietary guideline implementation in childcare centers: a cluster-randomized controlled trial. Yoong SL, Grady A, Wiggers JH, Stacey FG, Rissel C, Flood V, Finch M, Wyse R, Sutherland R, Salajan D, O'Rourke R, Lecathelinais C, Barnes C, Pond N, Gillham K, Green S, Wolfenden L. *Am J Clin Nutr.* 2020 Feb 24. pii: nqaa025. doi: 10.1093/ajcn/nqaa025.

Fitness, physical activity and academic achievement in overweight/obese children. Cadenas-Sanchez C, Migueles JH, Esteban-Cornejo I, Mora-Gonzalez J, Henriksson P, Rodriguez-Ayllon M, Molina-García P, Löf M, Labayen I, Hillman CH, Catena A, Ortega FB. *J Sports Sci.* 2020 Feb 24:1-10. doi: 10.1080/02640414.2020.1729516.

Integrating Complex Systems Methods to Advance Obesity Prevention Intervention Research. Hennessy E, Economos CD, Hammond RA; SUS Systems Map Team and the COMPACT Team. *Health Educ Behav.* 2020 Feb 24:1090198119898649. doi: 10.1177/1090198119898649.

Continued Decline in Obesity and Severe Obesity Prevalence Among New York City Public School Youth in Grades K-8: 2011-2017. Day SE, D'Agostino EM, Huang TT, Larkin M, Harr L, Konty KJ. *Obesity (Silver Spring).* 2020 Mar;28(3):638-646. doi: 10.1002/oby.22732.

The medical care costs of obesity and severe obesity in youth: An instrumental variables approach. Biener AI, Cawley J, Meyerhoefer C. Health Econ. 2020 Feb 23. doi: 10.1002/hec.4007

Obesity prevention in early care and education: a comparison of licensing regulations across Canadian provinces and territories. Vercammen KA, Frelief JM, Poole MK, Kenney EL. J Public Health (Oxf). 2020 Feb 22. pii: fdaa019. doi: 10.1093/pubmed/fdaa019.

The impact of the Oakland sugar-sweetened beverage tax on bottled soda and fountain drink prices in fast-food restaurants. Marinello S, Pipito AA, Leider J, Pugach O, Powell LM. Prev Med Rep. 2019 Dec 23;17:101034. doi: 10.1016/j.pmedr.2019.101034.

Maternal weight gain and neonatal outcomes in women with class III obesity. Njagu R, Adkins L, Tucker A, Gatta L, Brown HL, Reiff E, Dotters-Katz S. J Matern Fetal Neonatal Med. 2020 Feb 23:1-5. doi: 10.1080/14767058.2020.1729116.

Long-term outcomes comparing metabolic surgery to no surgery in patients with type 2 diabetes and body mass index 30-35. Horwitz D, Padron C, Kelly T, Saunders JK, Ude-Welcome A, Schmidt AM, Parikh M. Surg Obes Relat Dis. 2020 Jan 23. pii: S1550-7289(20)30032-0. doi: 10.1016/j.soard.2020.01.016.

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Systematic reviews

Effect of Aspiration Therapy on Obesity-Related Comorbidities: Systematic Review and Meta-Analysis. Jirapinyo P, de Moura DTH, Horton LC, Thompson CC. Clin Endosc. 2020 Feb 28. doi: 10.5946/ce.2019.181.

School Gardening Activities Aimed at Obesity Prevention Improve Body Mass Index and Waist Circumference Parameters in School-Aged Children: A Systematic Review and Meta-Analysis. Rochira A, Tedesco D, Ubiali A, Fantini MP, Gori D. Child Obes. 2020 Feb 24. doi: 10.1089/chi.2019.0253.

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