



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 - 6](#)
- [International - 29](#)
- [Systematic reviews - 8](#)

UK and Ireland

[Tracking snacking in real time: Time to look at individualised patterns of behaviour.](#) Allan J, McMinn D, Powell D. *Nutr Health*. 2019 Jul 26;260106019866099. doi: 10.1177/0260106019866099.

[Child-care self-assessment to improve physical activity, oral health and nutrition for 2- to 4-year-olds: a feasibility cluster RCT.](#) Kipping R, Langford R, Brockman R, Wells S, Metcalfe C, Papadaki A, White J, Hollingworth W, Moore L, Ward D, Campbell R, Kadir B, Tinner L, Er V, Dias K, Busse H, Collingwood J, Nicholson A, Johnson L, Jago R. Southampton (UK): NIHR Journals Library; 2019 Jul.

[Type and density of independent takeaway outlets: a geographical mapping study in a low socioeconomic ward, Manchester.](#) Blow J, Gregg R, Davies IG, Patel S. *BMJ Open*. 2019 Jul 23;9(7):e023554. doi: 10.1136/bmjopen-2018-023554.

[Interventions for preventing obesity in children.](#) Brown T, Moore TH, Hooper L, Gao Y, Zayegh A, Ijaz S, Elwenspoek M, Foxen SC, Magee L, O'Malley C, Waters E, Summerbell CD. *Cochrane Database Syst Rev*. 2019 Jul 23;7:CD001871. doi: 10.1002/14651858.CD001871.pub4.

[The association between area-based deprivation and change in body-mass index over time in primary school children: a population-based cohort study in Hampshire, UK.](#) Twaits A, Alwan NA. *Int J Obes (Lond)*. 2019 Jul 22. doi: 10.1038/s41366-019-0418-9.

[Public acceptability of nudging and taxing to reduce consumption of alcohol, tobacco, and food: A population-based survey experiment.](#) Reynolds JP, Archer S, Pilling M, Kenny M, Hollands GJ, Marteau TM. *Soc Sci Med*. 2019 Jul 2;236:112395. doi: 10.1016/j.socscimed.2019.112395.

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

International

[Assessing dinner meals offered at home among preschoolers from low-income families with the Remote Food Photography Method.](#) Bekelman TA, Bellows LL, McCloskey ML, Martin CK, Johnson SL. *Pediatr Obes*. 2019 Jul 25:e12558. doi: 10.1111/ijpo.12558.

Targeting parental motivation for change in childhood obesity: development and validation of the PURICA-S scale. Junne F, Ehehalt S, Ziser K, Reinehr T, Wiegand S, Mander J, Martus P, Mack I, Oberle A, Wabitsch M, Renner T, Zipfel S, Giel KE. *Int J Obes (Lond)*. 2019 Jul 25. doi: 10.1038/s41366-019-0415-z.

Adapting family-based treatment for paediatric obesity: A randomized controlled pilot trial. Loeb KL, Le Grange D, Celio Doyle A, Crosby RD, Glunz C, Laraque-Arena D, Hildebrandt T, Bacow T, Vangeepuram N, Gault A. *Eur Eat Disord Rev*. 2019 Jul 25. doi: 10.1002/erv.2699.

Generating Engagement on the Make Healthy Normal Campaign Facebook Page: Analysis of Facebook Analytics. Kite J, Grunseit A, Li V, Vineburg J, Berton N, Bauman A, Freeman B. *JMIR Public Health Surveill*. 2019 Jan 14;5(1):e11132. doi: 10.2196/11132.

Multisector Approach to Improve Healthy Eating and Physical Activity Policies and Practices in Early Care and Education Programs: The National Early Care and Education Learning Collaboratives Project, 2013-2017. Garvin TM, Weissenburger-Moser Boyd L, Chiappone A, Blaser C, Story M, Gertel-Rosenberg A, Shuell J, Chang D, Ward D, Plumlee C, Beets M, Yaroch AL. *Prev Chronic Dis*. 2019 Jul 25;16:E94. doi: 10.5888/pcd16.180582.

Weight Control Practices in Children of Parents Participating in Weight Management Programs. Brown CL, Pratt K, Martin S, Hulshult H, Skelton JA. *Child Obes*. 2019 Jul 25. doi: 10.1089/chi.2019.0089.

Activating a Community: An Agent-Based Model of Romp & Chomp, a Whole-of-Community Childhood Obesity Intervention. Kasman M, Hammond RA, Heuberger B, Mack-Crane A, Purcell R, Economos C, Swinburn B, Allender S, Nichols M. *Obesity (Silver Spring)*. 2019 Jul 25. doi: 10.1002/oby.22553.

Movement behavior profiles and obesity: a latent profile analysis of 24-h time-use composition among Danish workers. Gupta N, Hallman DM, Dumuid D, Vij A, Rasmussen CL, Jørgensen MB, Holtermann A. *Int J Obes (Lond)*. 2019 Jul 24. doi: 10.1038/s41366-019-0419-8.

Genetic predictors of weight loss in overweight and obese subjects. Lamiquiz-Moneo I, Mateo-Gallego R, Bea AM, Dehesa-García B, Pérez-Calahorra S, Marco-Benedí V, Baila-Rueda L, Laclaustra M, Civeira F, Cenarro A. *Sci Rep*. 2019 Jul 24;9(1):10770. doi: 10.1038/s41598-019-47283-5.

Association of Normal-Weight Central Obesity With All-Cause and Cause-Specific Mortality Among Postmenopausal Women. Sun Y, Liu B, Snetselaar LG, Wallace RB, Caan BJ, Rohan TE, Neuhauser ML, Shadyab AH, Chlebowski RT, Manson JE, Bao W. *JAMA Netw Open*. 2019 Jul 3;2(7):e197337. doi: 10.1001/jamanetworkopen.2019.7337.

Weight Loss Experiences of African American, Hispanic, and Non-Hispanic White Men and Women with Type 2 Diabetes: The Look AHEAD Trial. West DS, Dutton G, Delahanty LM, Hazuda HP, Rickman AD, Knowler WC, Vitolins MZ, Neiberg RH, Peters A, Gee M, Cassidy Begay M; Look AHEAD Research Group. *Obesity (Silver Spring)*. 2019 Aug;27(8):1275-1284. doi: 10.1002/oby.22522.

The evaluation of an integrated network approach of preventive care for children with overweight and obesity; study protocol for an implementation and effectiveness study. de Laat S, de Vos I, Jacobs M, van Mil E, van de Goor I. *BMC Public Health*. 2019 Jul 23;19(1):979. doi: 10.1186/s12889-019-7304-1.

Effectiveness of Teacher-Led Nutritional Lessons in Altering Dietary Habits and Nutritional Status in Preschool Children: Adoption of a NASA Mission X-Based Program. Kim J, Kim G, Park J, Wang Y, Lim H. *Nutrients*. 2019 Jul 13;11(7). pii: E1590. doi: 10.3390/nu11071590.

The Contribution of Diet Quality to Socioeconomic Inequalities in Obesity: A Population-based Study of Swiss Adults. de Mestral C, Chatelan A, Marques-Vidal P, Stringhini S, Bochud M. *Nutrients*. 2019 Jul 12;11(7). pii: E1573. doi: 10.3390/nu11071573.

Skipping Breakfast and a Meal at School: Its Correlates in Adiposity Context. Report from the ABC of Healthy Eating Study of Polish Teenagers. Wadolowska L, Hamulka J, Kowalkowska J, Ulewicz N, Gornicka M, Jeruszka-Bielak M, Kostecka M, Wawrzyniak A. *Nutrients*. 2019 Jul 11;11(7). pii: E1563. doi: 10.3390/nu11071563.

Analysis of Fruit and Vegetable Consumption by Children in School Canteens Depending on Selected Sociodemographic Factors. Łuszczki E, Sobek G, Bartosiewicz A, Baran J, Weres A, Dereń K, Mazur A. *Medicina (Kaunas)*. 2019 Jul 22;55(7). pii: E397. doi: 10.3390/medicina55070397.

Which Factors Are the Most Important for Predicting Sleep Quality in Obstructive Sleep Apnea Patients with Obesity? Kim BJ, Park KM. *Eur Neurol*. 2019 Jul 23;1-7. doi: 10.1159/000502003.

Feeding Infants and Toddlers: A Qualitative Study to Determine Parental Education Needs. Heller RL, Chiero JD, Puglisi M, Mobley AR. *Child Obes*. 2019 Jul 23. doi: 10.1089/chi.2019.0024.

Relations of change in fruit and vegetable intake with overall energy reduction and physical activity with weight change: Assessing theory-based psychosocial mediators. Annesi JJ. *J Sport Health Sci*. 2019 Jul;8(4):394-399. doi: 10.1016/j.jshs.2018.08.005.

Could sport be part of pediatric obesity prevention and treatment? Expert conclusions from the 28th European Childhood Obesity Group Congress. Ring-Dimitriou S, Krstrup P, Coelho-E-Silva MJ, Mota J, Seabra A, Rego C, Mazur A, Vlachopapadopoulou E, Caroli M, Frelut ML, Erhardt E, Forslund A, Boyland E, Weghuber D, Thivel D. *J Sport Health Sci*. 2019 Jul;8(4):350-352. doi: 10.1016/j.jshs.2019.01.007.

Does the built environment influence the effectiveness of behavioral weight management interventions? Zenk SN, Tarlov E, Wing C, Slater S, Jones KK, Fitzgibbon M, Powell LM. *Prev Med*. 2019 Jul 19:105776. doi: 10.1016/j.ypmed.2019.105776.

Understanding the process of implementing nutrition and physical activity policies in a large national child care organization: a mixed-methods study. McKee SL, Cooksey-Stowers K, St Louis R, Schwartz MB. *Transl Behav Med*. 2019 Apr 19. pii: ibz045. doi: 10.1093/tbm/ibz045.

The productivity gains associated with a junk food tax and their impact on cost-effectiveness. Carter HE, Schofield DJ, Shrestha R, Veerman L. *PLoS One*. 2019 Jul 22;14(7):e0220209. doi: 10.1371/journal.pone.0220209.

Governmental policies to reduce unhealthy food marketing to children. Taillie LS, Busey E, Mediano Stoltze F, Dillman Carpentier FR. *Nutr Rev*. 2019 Jul 22. pii: nuz021. doi: 10.1093/nutrit/nuz021.

Application Design for Child Obesity Management Based on Users' Preferences and Needs. Lee J, Jeongeun K, Ahjung B, Meiling J, Meihua P, Kyungryeon K, Hyeoiyun L. *West J Nurs Res*. 2019 Jul 22:193945919862797. doi: 10.1177/0193945919862797.

A comparison of the healthiness of packaged foods and beverages from 12 countries using the Health Star Rating nutrient profiling system, 2013-2018. Dunford EK, Ni Mhurchu C, Huang L, Vandevijvere S, Swinburn B, Pravst I, Tolentino-Mayo L, Reyes M, L'Abbe M, Neal BC. *Obes Rev*. 2019 Jul 22. doi: 10.1111/obr.12879.

Defining picky eating and its relationship to feeding behaviors and weight status. Brown CL, Perrin EM. *J Behav Med.* 2019 Jul 19. doi: 10.1007/s10865-019-00081-w.

Title: efficacy of a food parenting intervention for mothers with low income to reduce preschooler's solid fat and added sugar intakes: a randomized controlled trial. Fisher JO, Serrano EL, Foster GD, Hart CN, Davey A, Bruton YP, Kilby L, Harnack L, Ruth KJ, Kachurak A, Lawman HG, Martin A, Polonsky HM. *Int J Behav Nutr Phys Act.* 2019 Jan 17;16(1):6. doi: 10.1186/s12966-018-0764-3.

Socioeconomic inequalities in weight, height and body mass index from birth to 5 years. Ballon M, Botton J, Charles MA, Carles S, de Lauzon-Guillain B, Forhan A, Cameron AJ, Heude B, Lioret S; EDEN Mother–Child Cohort Study Group. *Int J Obes (Lond).* 2018 Sep;42(9):1671-1679. doi: 10.1038/s41366-018-0180-4.

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

Systematic reviews

Strategies to reduce attrition in weight loss interventions: A systematic review and meta-analysis. Pirotta S, Joham A, Hochberg L, Moran L, Lim S, Hindle A, Brennan L. *Obes Rev.* 2019 Jul 26. doi: 10.1111/obr.12914.

The effectiveness of wearable technologies as physical activity interventions in weight control: A systematic review and meta-analysis of randomized controlled trials. Yen HY, Chiu HL. *Obes Rev.* 2019 Jul 24. doi: 10.1111/obr.12909.

Development and validation of a prediction model for fat mass in children and adolescents: meta-analysis using individual participant data. Hudda MT, Fewtrell MS, Haroun D, Lum S, Williams JE, Wells JCK, Riley RD, Owen CG, Cook DG, Rudnicka AR, Whincup PH, Nightingale CM. *BMJ.* 2019 Jul 24;366:l4293. doi: 10.1136/bmj.l4293.

Prevalence of Overweight and Obesity among European Preschool Children: A Systematic Review and Meta-Regression by Food Group Consumption. Garrido-Miguel M, Oliveira A, Cavero-Redondo I, Álvarez-Bueno C, Pozuelo-Carrascosa DP, Soriano-Cano A, Martínez-Vizcaíno V. *Nutrients.* 2019 Jul 23;11(7). pii: E1698. doi: 10.3390/nu11071698.

Is Vitamin D Supplementation Useful for Weight Loss Programs? A Systematic Review and Meta-Analysis of Randomized Controlled Trials. Perna S. *Medicina (Kaunas).* 2019 Jul 12;55(7). pii: E368. doi: 10.3390/medicina55070368.

Instruments for evaluation of motivations for weight loss in individuals with overweight and obesity: A systematic review and narrative synthesis. Silva DFO, Sena-Evangelista KCM, Lyra CO, Pedrosa LFC, Arrais RF, Lima SCVC. *PLoS One.* 2019 Jul 23;14(7):e0220104. doi: 10.1371/journal.pone.0220104.

Overweight and obesity in sexual and gender minority adolescents: A systematic review. Grammer AC, Byrne ME, Pearlman AT, Klein DA, Schvey NA. *Obes Rev.* 2019 Jul 23. doi: 10.1111/obr.12906.

Obesity Prevention Interventions and Implications for Energy Balance in the United States and Mexico: A Systematic Review of the Evidence and Meta-Analysis. Richardson AS, Chen C, Sturm R, Azhar G, Miles J, Larkin J, Motala A, Hempel S. *Obesity (Silver Spring).* 2019 Jul 20. doi: 10.1002/oby.22540.

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