



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

Dietary Patterns Characterized by Fat Type in Association with Obesity and Type 2 Diabetes: A Longitudinal Study of UK Biobank Participants. Brayner B, Kaur G, Keske MA, Perez-Cornago A, Piernas C, Livingstone KM. *J Nutr.* 2021 Sep 15:nxab275. doi: 10.1093/jn/nxab275.

Impact of decreasing the proportion of higher energy foods and reducing portion sizes on food purchased in worksite cafeterias: A stepped-wedge randomised controlled trial. Reynolds JP, Ventsel M, Kosite D, Rigby Dames B, Brocklebank L, Masterton S, Pechey E, Pilling M, Pechey R, Hollands GJ, Marteau TM. *PLoS Med.* 2021 Sep 14;18(9):e1003743. doi: 10.1371/journal.pmed.1003743.

Pediatric Weight Management Through mHealth Compared to Face-to-Face Care: Cost Analysis of a Randomized Control Trial. Tully L, Sorensen J, O'Malley G. *JMIR Mhealth Uhealth.* 2021 Sep 14;9(9):e31621. doi: 10.2196/31621.

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International

A youth empowerment intervention to prevent childhood obesity: design and methods for a cluster randomized trial of the H2GO! program. Wang ML, Sprague Martinez LS, Weinberg J, Alatorre S, Lemon SC, Rosal MC. *BMC Public Health.* 2021 Sep 15;21(1):1675. doi: 10.1186/s12889-021-11660-5.

Obesity, Disability and Self-Perceived Health Outcomes in Australian Adults: A Longitudinal Analysis Using 14 Annual Waves of the HILDA Cohort. Keramat SA, Alam K, Ahinkorah BO, Islam MS, Islam MI, Hossain MZ, Ahmed S, Gow J, Biddle SJH. *Clinicoecon Outcomes Res.* 2021 Sep 7;13:777-788. doi: 10.2147/CEOR.S318094.

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Bikes for Life: Measuring the effects of a bicycle distribution program on 6 to 12-year-old children's BMI and health behaviors. Bunik M, Shek L, Valenzuela M, Munson AL, Federspiel D, Helmkamp L, Haemer M, Dickinson LM. *Obes Res Clin Pract*. 2021 Sep 11:S1871-403X(21)00122-8. doi: 10.1016/j.orcp.2021.09.003.

Sustainable food systems and nutrition in the 21st century: A report from the 22nd annual harvard nutrition obesity symposium. Fanzo J, Rudie C, Sigman I, Grinspoon S, Benton TG, Brown ME, Covic N, Fitch K, Golden CD, Grace D, Hivert MF, Huybers P, Jaacks LM, Masters WA, Nisbett N, Richardson RA, Singleton CR, Webb P, Willett WC. *Am J Clin Nutr*. 2021 Sep 15:nqab315. doi: 10.1093/ajcn/nqab315.

Table for two: Perceptions of social support from participants in a weight management intervention for veterans with PTSD and overweight or obesity. Robustelli BL, Campbell SB, Greene PA, Sayre GG, Sulayman N, Hoerster KD. *Psychol Serv*. 2021 Sep 13. doi: 10.1037/ser0000577.

Social inequalities in obesity and overweight: secular changes in Poland between 1983 and 2020. Żegleń M, Kryst Ł, Kowal M, Woronkowicz A. *Eur J Public Health*. 2021 Sep 12:ckab161. doi: 10.1093/eurpub/ckab161.

Effect of Aerobic Exercise-induced Weight Loss on the Components of Daily Energy Expenditure. Broskey NT, Martin CK, Burton JH, Church TS, Ravussin E, Redman LM. *Med Sci Sports Exerc*. 2021 Oct 1;53(10):2164-2172. doi: 10.1249/MSS.0000000000002689.

Trending Nutrition Controversies #3: Top Controversies in 2021. Freeman AM, Aggarwal M, Ros E, Allen K, Sikand G, Aspry K, Kris-Etherton P, Devries S, Reddy K, Singh T, Litwin SE, JamesO'Keefe, Miller M, Andrus B, Blankstein R, Batiste C, Belardo D, Wenger C, Batts T, Barnard ND, White BA, Ornish D, Williams KA, Ostfeld RJ. *Am J Med*. 2021 Sep 9:S0002-9343(21)00565-9. doi: 10.1016/j.amjmed.2021.07.046.

Development and Validation of the Four Facet Mindful Eating Scale (FFaMES). Carrière K, Shireen SH, Siemers N, Preißner CE, Starr J, Falk C, Knäuper B. *Appetite*. 2021 Sep 10;168:105689. doi: 10.1016/j.appet.2021.105689.

The Relationship between Mindful Eating and Body Mass Index and Body Compositions in Adults. Demirbas N, Kutlu R, Kurnaz A. *Ann Nutr Metab*. 2021 Sep 10:1-9. doi: 10.1159/000518675.

Association of counselor weight status and demographics with participant weight loss in a structured lifestyle intervention. Dao MC, Das SK, Silver RE, Roberts SB. *Obes Res Clin Pract*. 2021 Jan-Feb;15(1):69-72. doi: 10.1016/j.orcp.2020.11.005.

Making sense of adolescent-targeted social media food marketing: A qualitative study of expert views on key definitions, priorities and challenges. van der Bend DLM, Jakstas T, van Kleef E, Shrewsbury VA, Bucher T. *Appetite*. 2021 Sep 10;168:105691. doi: 10.1016/j.appet.2021.105691.

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Systematic reviews

Is adiposity associated with back and lower limb pain? A systematic review. Peiris WL, Cicuttini FM, Hussain SM, Estee MM, Romero L, Ranger TA, Fairley JL, McLean EC, Urquhart DM. PLoS One. 2021 Sep 14;16(9):e0256720. doi: 10.1371/journal.pone.0256720.

Mapping the digital food environment: A systematic scoping review. Granheim SI, Løvhaug AL, Terragni L, Torheim LE, Thurston M. Obes Rev. 2021 Sep 14:e13356. doi: 10.1111/obr.13356.

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