



# Office for Health Improvement and Disparities

Welcome to the latest issue of the weekly Obesity Knowledge Update from the Office for Health Improvement and Disparities (OHID). This bulletin highlights new research relating to obesity and its determinants.

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## UK and Ireland

No papers identified in this week's search.

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## International

[Obesity and cancer death in white and black adults: A prospective cohort study](#). Brown JC, Yang S, Mire EF, Wu X, Miele L, Ochoa A, Zabaleta J, Katzmarzyk PT. *Obesity* (Silver Spring). 2021 Oct 24. doi: 10.1002/oby.23290.

[A structured physical activity program in an adolescent population with overweight and obesity: a prospective interventional study](#). Fanelli E, Abate Daga F, Pappaccogli M, Eula E, Astarita A, Mingrone G, Fasano C, Magnino C, Schiavone D, Rabbone I, Gollin M, Rabbia F, Veglio F. *Appl Physiol Nutr Metab*. 2021 Oct 27. doi: 10.1139/apnm-2021-0092.

[Development of a Health Information Technology Tool for Behavior Change to Address Obesity and Prevent Chronic Disease Among Adolescents: Designing for Dissemination and Sustainment Using the ORBIT Model](#). Kepper MM, Walsh-Bailey C, Brownson RC, Kwan BM, Morrato EH, Garbutt J, de Las Fuentes L, Glasgow RE, Lopetegui MA, Foraker R. *Front Digit Health*. 2021 Mar 10;3:648777. doi: 10.3389/fdgth.2021.648777.

[Complex lifestyle intervention among inactive older adults with elevated cardiovascular disease risk and obesity: a mixed-method, single-arm feasibility study for RESTART-a randomized controlled trial](#). Deraas TS, Hopstock L, Henriksen A, Morseth B, Sand AS, Njølstad I, Pedersen S, Sagelv E, Johansson J, Grimsgaard S. *Pilot Feasibility Stud*. 2021 Oct 27;7(1):190. doi: 10.1186/s40814-021-00921-0.

[Social acceptability of standard and behavioral economic inspired policies designed to reduce and prevent obesity](#). Lancsar E, Ride J, Black N, Burgess L, Peeters A. *Health Econ*. 2021 Oct 29. doi: 10.1002/hec.4451.

Projecting the Influence of Sugar-Sweetened Beverage Warning Labels and Restaurant Menu Labeling Regulations on Energy Intake, Weight Status, and Health Care Expenditures in US Adults: A Microsimulation. An R, Zheng J, Xiang X. *J Acad Nutr Diet*. 2021 Oct 18;S2212-2672(21)00330-0. doi: 10.1016/j.jand.2021.05.006.

Self-reported body weight and weight-related stigmatization experiences among young adult women-two contexts, but similar attitudes related to body image, mental self-schemas, self-esteem, and stereotypes of people with obesity. Jach Ł, Krystoń S. *PeerJ*. 2021 Sep 27;9:e12047. doi: 10.7717/peerj.12047.

Microsimulation Modelling in Food Policy: A Scoping Review of Methodological Aspects. Mertens E, Genbrugge E, Ocira J, Peñalvo JL. *Adv Nutr*. 2021 Oct 25:nmab129. doi: 10.1093/advances/nmab129.

Association between the Prime Diet Quality Score and depressive symptoms in a Mediterranean population with metabolic syndrome. Cross-sectional and 2-year follow-up assessment from PREDIMED-PLUS study. Cano-Ibáñez N, Serra-Majem L, Martín-Peláez S, Martínez-González MÁ, Salas-Salvadó J, Corella D, Lassale C, Martínez JA, Alonso-Gómez ÁM, Wärnberg J, Vioque J, Romaguera D, López-Miranda J, Estruch R, Gómez-Pérez AM, Santos-Lozano JM, Fernández-Aranda F, Bueno-Cavanillas A, Tur JA, Martín V, Pintó X, Delgado-Rodríguez M, Matía P, Vidal J, Cárdenas JJ, Daimiel L, Ros E, Buil-Cosiales P, Becerra-Tomás N, Saiz C, Muñoz MÁ, Abete I, Tojal-Sierra L, Fernández-Barceló O, Bernabé-Casanova A, Konieczna J, García-Ríos A, Casas R, Bernal-López MR, Lapetra J, Toledo E, Gómez C, Coltell O, Malcampo-Manrúbia M, Zulet MA, Sorto-Sánchez C, Gea A, Hernández-Fleta JL, Castañer-Niño O, Sánchez-Villegas A. *Br J Nutr*. 2021 Oct 29:1-25. doi: 10.1017/S0007114521004323.

Applying User-Centered Design Methods to Understand Users' Day-to-Day Experiences Can Inform a Mobile Intervention for Binge Eating and Weight Management. Graham AK, Neubert SW, Chang A, Liu J, Fu E, Green EA, Kornfield R, Nicholas J. *Front Digit Health*. 2021 Jun 4;3:651749. doi: 10.3389/fdgth.2021.651749.

Body fat percentage estimation in children - searching for the most accurate equation. Kryst Ł, Żegleń M, Kowal M, Woronkowicz A. *Homo*. 2021 Sep 28;72(3):205-213. doi: 10.1127/homo/2021/1345.

The Impact of Restrictive and Non-restrictive Dietary Weight Loss Interventions on Neurobehavioral Factors Related to Body Weight Control: the Gaps and Challenges. Iceta S, Panahi S, García-García I, Michaud A. *Curr Obes Rep*. 2021 Sep;10(3):385-395. doi: 10.1007/s13679-021-00452-y.

Benchmarking for accountability on obesity prevention: evaluation of the Healthy Food Environment Policy Index (Food-EPI) in Australia (2016 - 2020). Kwon J, Reeve E, Mann D, Swinburn B, Sacks G. *Public Health Nutr*. 2021 Oct 28:1-25. doi: 10.1017/S136898002100447X.

Application of social cognitive theory in weight management: Time for a biological component? Anton S, Das SK, McLaren C, Roberts SB. *Obesity (Silver Spring)*. 2021 Oct 27. doi: 10.1002/oby.23257.

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Consider the context: An analysis of personal social networks of caregivers of children participating in a paediatric weight management program. D'Silva C, Thompson B, Fierheller D, Martel S, Yousefi Nooraie R, Zenlea I. Clin Obes. 2021 Aug;11(4):e12456. doi: 10.1111/cob.12456.

Changes in adiposity among children and adolescents in the United States, 1999-2006 to 2011-2018. Stierman B, Ogden CL, Yanovski JA, Martin CB, Sarafrazi N, Hales CM. Am J Clin Nutr. 2021 Oct 4;114(4):1495-1504. doi: 10.1093/ajcn/nqab237.

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The association of sex and calendar month with changes in weight: A retrospective cohort study of a community-based weight management clinic. Christensen RAG, Wharton S, Brooks JD, Bondy SJ, Kuk JL. Obes Res Clin Pract. 2021 Sep-Oct;15(5):515-517. doi: 10.1016/j.orcp.2021.07.002.

Continuous Engagement in a Weight-Loss Program Promotes Sustained Significant Weight Loss. Mitchell NS, Seyoum EA, Bhavsar NA, Webb FJ. WMJ. 2020 Dec;119(4):253-257.

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### ***International: Research related to COVID-19***

Country-level determinants of COVID-19 case rates and death rates: An ecological study. El Mouhayyar C, Jaber LT, Bergmann M, Tighiouart H, Jaber BL. Transbound Emerg Dis. 2021 Oct 27. doi: 10.1111/tbed.14360.

Changes in physical activity associated with the COVID-19 pandemic in individuals with overweight and obesity: an interrupted time series analysis with historical controls. Robertson MC, Lee CY, Wu IH, Liao Y, Raber M, Parker N, Le T, Gatus L, Basen-Engquist KM. J Behav Med. 2021 Oct 26:1-11. doi: 10.1007/s10865-021-00261-7.

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## **Systematic reviews**

Strategies to Improve School Meal Consumption: A Systematic Review. Cohen JFW, Hecht AA, Hager ER, Turner L, Burkholder K, Schwartz MB. Nutrients. 2021 Oct 7;13(10):3520. doi: 10.3390/nu13103520.

Effects of Lifestyle Intervention on Inflammatory Markers and Waist Circumference in Overweight/Obese Adults With Metabolic Syndrome: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. Rahimi GRM, Yousefabadi HA, Niyazi A, Rahimi NM, Alikhajeh Y. Biol Res Nurs. 2021 Oct 26:10998004211044754. doi: 10.1177/10998004211044754.

Do adolescents' experiences of the barriers to and facilitators of physical activity differ by socioeconomic position? A systematic review of qualitative evidence. Alliot O, Ryan M, Fairbrother H, van Sluijs E. Obes Rev. 2021 Oct 28. doi: 10.1111/obr.13374.

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