



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.

OHID is not responsible for the content of articles published by external organisations.

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 - 25](#)
- [Systematic reviews - 1](#)

UK and Ireland

[Is it possible to model the impact of calorie-reduction interventions on childhood obesity at a population level and across the range of deprivation: Evidence from the Avon Longitudinal Study of Parents and Children \(ALSPAC\)](#). Russell SJ, Hope S, Croker H, Packer J, Viner RM. PLoS One. 2022 Jan 31;17(1):e0263043. doi: 10.1371/journal.pone.0263043.

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

UK and Ireland: Research related to COVID-19

[A population-based cohort study of obesity, ethnicity and COVID-19 mortality in 12.6 million adults in England](#). Yates T, Summerfield A, Razieh C, Banerjee A, Chudasama Y, Davies MJ, Gillies C, Islam N, Lawson C, Mirkes E, Zaccardi F, Khunti K, Nafilyan V. Nat Commun. 2022 Feb 2;13(1):624. doi: 10.1038/s41467-022-28248-1.

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

International

[Bullying and coping with bullying among obese/overweight and normal weight children](#). Uslu N, Evgin D. Arch Psychiatr Nurs. 2022 Feb;36:7-16. doi: 10.1016/j.apnu.2021.10.005

[U.S. Households' Children's Drink Purchases: 2006-2017 Trends and Associations With Marketing](#). Choi YY, Andreyeva T, Fleming-Milici F, Harris JL. Am J Prev Med. 2022 Jan;62(1):9-17. doi: 10.1016/j.amepre.2021.06.013.

[Methodological Aspects of Diet Quality Indicators in Childhood: A Mapping Review](#). Hernández-Ruiz Á, Díaz-Jereda LA, Madrigal C, Soto-Méndez MJ, Kuijsten A, Gil Á. Adv Nutr. 2021 Dec 1;12(6):2435-2494. doi: 10.1093/advances/nmab053.

[A scoping review of outcomes commonly reported in obesity prevention interventions aiming to improve obesity-related health behaviors in children to age 5 years](#). Brown V, Moodie M, Sultana M, Hunter KE, Byrne R, Zarnowiecki D, Seidler AL, Golley R, Taylor RW, Hesketh KD, Matvienko-Sikar K. Obes Rev. 2022 Feb 5:e13427. doi: 10.1111/obr.13427.

Measurement of obesity in primary care practice: chronic conditions matter. Lindeman C, Jones A, Klein D, Prado CM, Pham ANQ, Spence JC, Drummond N. *Fam Pract*. 2022 Feb 1;cmab170. doi: 10.1093/fampra/cmab170.

Psychosocial Factors Affecting the Association between a Healthy Lifestyle Behavior Intervention and Depressive Symptoms in Low-Income Overweight or Obese Mothers with Young Children: A Mediation Analysis. Robbins LB, Chang MW, Ling J, Brown R. *J Pediatr Perinatol Child Health*. 2022;6(1):54-69. doi: 10.26502/jppch.74050090.

Prevalence of Municipal-Level Policies Dedicated to Transportation That Consider Food Access. Dumas BL, Harris DM, McMahan JM, Daymude TJ, Warnock AL, Moore LV, Onufrak SJ. *Prev Chronic Dis*. 2021 Nov 18;18:E97. doi: 10.5888/pcd18.210193.

Long-term Effectiveness of a Smartphone App Combined With a Smart Band on Weight Loss, Physical Activity, and Caloric Intake in a Population With Overweight and Obesity (Evident 3 Study): Randomized Controlled Trial. Lugones-Sanchez C, Recio-Rodriguez JJ, Agudo-Conde C, Repiso-Gento I, G Adalia E, Ramirez-Manent JJ, Sanchez-Calavera MA, Rodriguez-Sanchez E, Gomez-Marcos MA, Garcia-Ortiz L; EVIDENT 3 Investigators. *J Med Internet Res*. 2022 Feb 1;24(2):e30416. doi: 10.2196/30416.

Health associations with meeting the Canadian 24-hour movement guidelines for adults: Results from the Canadian Health Measures Survey. Rollo S, Lang JJ, Roberts KC, Bang F, Carson V, Chaput JP, Colley RC, Janssen I, Tremblay MS. *Health Rep*. 2022 Jan 19;33(1):16-26. doi: 10.25318/82-003-x202101200002-eng.

The Circadian Clock and Obesity. Sebti Y, Hebras A, Pourcet B, Staels B, Duez H. *Handb Exp Pharmacol*. 2022 Feb 3. doi: 10.1007/164_2021_579.

Differential associations of the built environment on weight gain by sex and race/ethnicity but not age. Buszkiewicz JH, Bobb JF, Kapos F, Hurvitz PM, Arterburn D, Moudon AV, Cook A, Mooney SJ, Cruz M, Gupta S, Lozano P, Rosenberg DE, Theis MK, Anau J, Drewnowski A. *Int J Obes (Lond)*. 2021 Dec;45(12):2648-2656. doi: 10.1038/s41366-021-00937-9.

Adolescent Body Mass Index and Exposure to Peers with Overweight and Obesity: A Structural Equation Model Approach to Longitudinal Network Data. Piombo SE, Huh J, Valente TW. *Child Obes*. 2022 Feb 1. doi: 10.1089/chi.2021.0270.

Diverging metabolic effects of two energy restricted diets differing in nutrient quality: a 12-week randomized controlled trial in subjects with abdominal obesity. Schutte S, Esser D, Siebelink E, Michielsen CJR, Daanje M, Matualatupauw JC, Boshuizen HC, Mensink M, Afman LA; Wageningen Belly Fat Study team. *Am J Clin Nutr*. 2022 Jan 31:nqac025. doi: 10.1093/ajcn/nqac025.

Exploring a theory of change: Are increases in parental empowerment associated with healthier weight-related parenting practices? Gago CM, Jurkowski J, Beckerman-Hsu JP, Aftosmes-Tobio A, Figueroa R, Oddleifson C, Mattei J, Kenney EL, Haneuse S, Davison KK. *Soc Sci Med*. 2022 Jan 31;296:114761. doi: 10.1016/j.socscimed.2022.114761.

Elevated blood pressure in youth in pediatric weight management programs in the Pediatric Obesity Weight Evaluation Registry (POWER). Binns HJ, Joseph M, Ariza AJ, Cuda SE, Skinner AC, Xu H, Tucker JM, Hampl SE, Santos M, Mayo S, King EC, Kirk S; POWER Work Group. *J Clin Hypertens (Greenwich)*. 2022 Jan 31. doi: 10.1111/jch.14423.

Use of a Smartphone App Versus Motivational Interviewing to Increase Walking Distance and Weight Loss in Overweight/Obese Adults With Peripheral Artery Disease: Pilot Randomized Trial. Collins T, Geana M, Overton K, Benton M, Lu L, Khan F, Rohleder M, Ahluwalia J, Resnicow K, Zhu Y. *JMIR Form Res*. 2022 Feb 3;6(2):e30295. doi: 10.2196/30295.

Ethnic and racial comparisons of weight-loss treatment utilization history and outcomes in patients with obesity and binge-eating disorder. Coffino JA, Ivezaj V, Barnes RD, White MA, Pittman BP, Grilo CM. *Eat Behav.* 2022 Jan 11;44:101594. doi: 10.1016/j.eatbeh.2021.101594.

A preliminary investigation of yoga as an intervention approach for improving long-term weight loss: A randomized trial. Unick JL, Dunsiger SI, Bock BC, Sherman SA, Braun TD, Wing RR. *PLoS One.* 2022 Feb 4;17(2):e0263405. doi: 10.1371/journal.pone.0263405.

Improving Healthy Living in Residential Care Facilities: Feasibility, Acceptability, and Appropriateness of Implementing a Multicomponent Intervention for Diabetes Risk Reduction in Adults with Serious Mental Illnesses. Sommerfeld DH, Brunner AM, Glorioso D, Lee EE, Ibarra C, Zunshine E, Daly RE, Zoumas C, Jeste DV. *Adm Policy Ment Health.* 2022 Feb 3. doi: 10.1007/s10488-022-01189-z.

GPs' views on the implementation of combined lifestyle interventions in primary care in the Netherlands: a qualitative study. van der Heiden W, Lacroix J, Moll van Charante EP, Beune E. *BMJ Open.* 2022 Feb 4;12(2):e056451. doi: 10.1136/bmjopen-2021-056451.

Changes in Pedometer-measured Physical Activity are associated with Weight Loss and Changes in Body Composition and Fat Distribution in Response to Reduced Energy Diet Interventions: the POUNDS Lost trial. Xue Q, Li X, Ma H, Tao Z, Heianza Y, Rood JC, Bray GA, Sacks FM, Qi L. *Diabetes Obes Metab.* 2022 Feb 3. doi: 10.1111/dom.14662.

United States Dietary Trends Since 1800: Lack of Association Between Saturated Fatty Acid Consumption and Non-communicable Diseases. Lee JH, Duster M, Roberts T, Devinsky O. *Front Nutr.* 2022 Jan 13;8:748847. doi: 10.3389/fnut.2021.748847.

Does inadequate sleep increase obesity risk in children? Herzog D, Thai K, Neher JO, Auten B, Guthmann R. *J Fam Pract.* 2021 Dec;70(10):E1-E2. doi: 10.12788/jfp.0319.

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

International: Research related to COVID-19

COVID-19 and obesity: the confrontation of two pandemics. Oboza P, Ogarek N, Olszanecka-Glinianowicz M, Kocelak P. *Eur Rev Med Pharmacol Sci.* 2022 Jan;26(2):695-709. doi: 10.26355/eurrev_202201_27896.

The Effects of the COVID-19 Pandemic on Weight Loss in Participants in a Behavioral Weight Loss Intervention. Zaman A, Sloggett KJ, Caldwell AE, Catenacci V, Cornier MA, Grau L, Vetter C, Rynders C, Thomas E. *Obesity (Silver Spring).* 2022 Feb 3. doi: 10.1002/oby.23399.

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

Systematic reviews

Effectiveness of Mobile Phone and Web-Based Interventions for Diabetes and Obesity Among African American and Hispanic Adults in the United States: Systematic Review. Enyioha C, Hall M, Voisin C, Jonas D. *JMIR Public Health Surveill.* 2022 Feb 4;8(2):e25890. doi: 10.2196/25890.

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