



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

[Long-term trends in the epidemiology of cardiovascular diseases in the UK: Insights from the British Heart Foundation Statistical Compendium](#). Cheema KM, Dicks E, Pearson J, Samani NJ. *Cardiovasc Res*. 2022 Apr 14;cvac042. doi: 10.1093/cvr/cvac053.

[Association of Changes in Physical Activity and Adiposity With Mortality and Incidence of Cardiovascular Disease: Longitudinal Findings From the UK Biobank](#). Ahmadi MN, Gill JMR, Stamatakis E. *Mayo Clin Proc*. 2022 Apr 9:S0025-6196(21)00881-8. doi: 10.1016/j.mayocp.2021.11.026.

[Participant characteristics associated with changes in mental health in a trial of behavioural weight management programmes: Secondary analysis of the WRAP trial](#). Jones RA, Mueller J, Sharp SJ, Duschinsky R, Griffin SJ, Ahern AL. *Obes Facts*. 2022 Apr 13. doi: 10.1159/000522083.

[Exploring primary school years interactions around child weight: A qualitative meta-synthesis of school staff, parent, and child views and experiences](#). Chisholm A, Coupe N, Ujhelyi Gomez K, Hart J, Peters S. *Obes Rev*. 2022 Apr 10. doi: 10.1111/obr.13451.

[The effectiveness of automated digital health solutions at successfully managing obesity and obesity-associated disorders: A PICO-structured investigation](#). Price JC, Santos HO, Bueno AA. *Digit Health*. 2022 Apr 5;8:20552076221091351. doi: 10.1177/20552076221091351.

[Health Economic Aspects of Childhood Excess Weight: A Structured Review](#). Onyimadu O, Violato M, Astbury NM, Jebb SA, Petrou S. *Children*. 2022 Mar; 9(4):461.

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UK and Ireland: Research related to COVID-19

[Supporting Weight Management during COVID-19 \(SWiM-C\): A randomised controlled trial of a web-based, ACT-based, guided self-help intervention](#). Mueller J, Richards R, Jones RA, Whittle F, Woolston J, Stubbings M, Sharp SJ, Griffin SJ, Bostock J, Hughes CA, Hill AJ, Ahern AL. *Obes Facts*. 2022 Apr 13. doi: 10.1159/000524031.

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International

Epidemiology of Obesity. Sørensen TIA, Martinez AR, Jørgensen TSH. *Handb Exp Pharmacol.* 2022 Apr 14. doi: 10.1007/164_2022_581.

Obesogenic environments and cardiovascular disease: a path analysis using US nationally representative data. Guo F, Bostean G, Berardi V, Velasquez AJ, Robinette JW. *BMC Public Health.* 2022 Apr 10;22(1):703. doi: 10.1186/s12889-022-13100-4.

Emotional Eating and Dietary Patterns: Reflecting Food Choices in People with and without Abdominal Obesity. Betancourt-Núñez A, Torres-Castillo N, Martínez-López E, De Loera-Rodríguez CO, Durán-Barajas E, Márquez-Sandoval F, Bernal-Orozco MF, Garaulet M, Vizmanos B. *Nutrients.* 2022 Mar 25;14(7):1371. doi: 10.3390/nu14071371.

Defining Energy-Dense, Nutrient-Poor Food and Drinks and Estimating the Amount of Discretionary Energy. Biloft-Jensen A, Matthiessen J, Hess Ygil K, Christensen T. *Nutrients.* 2022 Apr 1;14(7):1477. doi: 10.3390/nu14071477.

Influence of Lifestyle Habits in the Development of Obesity during Adolescence. Carpena Lucas PJ, Sánchez-Cubo F, Vargas Vargas M, Mondéjar Jiménez J. *Int J Environ Res Public Health.* 2022 Mar 31;19(7):4124. doi: 10.3390/ijerph19074124.

Fitness, Food, and Biomarkers: Characterizing Body Composition in 19,634 Early Adolescents. Rodriguez A, Korzeniowska K, Szarejko K, Borowski H, Brzeziński M, Myśliwiec M, Czupryniak L, Berggren PO, Radziwiłł M, Soszyński P. *Nutrients.* 2022 Mar 25;14(7):1369. doi: 10.3390/nu14071369.

Development of an Extended-Reality (XR)-Based Intervention to Treat Adolescent Obesity. Malik N, Prado WL, Lappan S, Popescu M, Haddock B, Hill JO. *Int J Environ Res Public Health.* 2022 Apr 2;19(7):4264. doi: 10.3390/ijerph19074264.

Tracking of anthropometric characteristics from childhood to adolescence: an 8-year follow-up findings from the Czech ELSPAC study. Zvonar M, Štefan L, Kasović M, Piler P. *BMC Public Health.* 2022 Apr 12;22(1):727. doi: 10.1186/s12889-022-13178-w.

Impact of starting BMI and degree of weight loss on changes in appetite-regulating hormones during diet-induced weight loss. Edwards KL, Prendergast LA, Kalfas S, Sumithran P, Proietto J. *Obesity (Silver Spring).* 2022 Apr;30(4):911-919. doi: 10.1002/oby.23404.

Tracking and risk of abdominal and general obesity in children between 4 and 9 years of age. The Longitudinal Childhood Obesity Study (ELOIN). Ortiz-Marrón H, Ortiz-Pinto MA, Cabañas Pujadas G, Martínez Mosquera JG, Lorente Miñarro M, Menchero Pinos F, Ordobás Gavín M, Galán I. *BMC Pediatr.* 2022 Apr 12;22(1):198. doi: 10.1186/s12887-022-03266-6.

Parents' Reports of Children's Physical and Sedentary Behavior Engagement among Parents in Weight Management. Van Fossen C, Kiser H, Lambert Brown C, Skelton J, Pratt KJ. *Int J Environ Res Public Health.* 2022 Mar 22;19(7):3773. doi: 10.3390/ijerph19073773.

U.S. Nutrition Assistance Program Participation and Childhood Obesity: The Early Childhood Longitudinal Study 2011. Lee MM, Kinsey EW, Kenney EL. *Am J Prev Med.* 2022 Apr 7:S0749-3797(22)00150-7. doi: 10.1016/j.amepre.2022.02.016.

Psychological Profiles of Treatment-Seeking Adults with Overweight and Obesity: A Cluster Analysis Approach. Plasonja N, Brytek-Matera A, Décamps G. *J Clin Med.* 2022 Mar 31;11(7):1952. doi: 10.3390/jcm11071952.

Predictors of Weight Loss and Weight Loss Maintenance in Children and Adolescents With Obesity After Behavioral Weight Loss Intervention. Weiland A, Nannette LK, Zipfel S, Eehalt S, Ziser K, Junne F, Mack I. *Front Public Health*. 2022 Mar 25;10:813822. doi: 10.3389/fpubh.2022.813822.

Testing the effectiveness of a novel, evidence-based weight management and lifestyle modification programme in primary care: the Healthy Weight Initiative. Slater S, Lambkin D, Schumacher T, Williams A, Baillie J. *J Prim Health Care*. 2022 Apr;14(1):64-73. doi: 10.1071/HC21065.

Estimates of the Nutritional Impact of Non-Participation in the National School Lunch Program during COVID-19 School Closures. Hecht AA, Dunn CG, Kinsey EW, Read MA, Levi R, Richardson AS, Hager ER, Seligman HK. *Nutrients*. 2022 Mar 26;14(7):1387. doi: 10.3390/nu14071387.

Public Support for the Imposition of a Tax on Sugar-Sweetened Beverages and the Determinants of Such Support in Spain. Fernández Sánchez-Escalonilla S, Fernández-Escobar C, Royo-Bordonada MÁ. *Int J Environ Res Public Health*. 2022 Mar 22;19(7):3758. doi: 10.3390/ijerph19073758.

Dietary Counseling Aimed at Reducing Sugar Intake Yields the Greatest Improvement in Management of Weight and Metabolic Dysfunction in Children with Obesity. Radulescu A, Killian M, Kang Q, Yuan Q, Softic S. *Nutrients*. 2022 Apr 3;14(7):1500. doi: 10.3390/nu14071500.

Joint associations of physical activity and sedentary time with adiposity during adolescence: ALSPAC. Kwon S, Ekelund U, Kandula NR, Janz KF. *Eur J Public Health*. 2022 Apr 13;ckac023. doi: 10.1093/eurpub/ckac023.

Water Wins, Communication Matters: School-Based Intervention to Reduce Intake of Sugar-Sweetened Beverages and Increase Intake of Water. Kamin T, Koroušić Seljak B, Fidler Mis N. *Nutrients*. 2022 Mar 23;14(7):1346. doi: 10.3390/nu14071346.

Weight Change During the Postintervention Follow-up of Look AHEAD. Wing RR, Neiberg RH, Bahnson JL, Clark JM, Espeland MA, Hill JO, Johnson KC, Knowler WC, Olson K, Steinburg H, Pi-Sunyer X, Wadden TA, Wyatt H; Look AHEAD Research Group. *Diabetes Care*. 2022 Apr 14;dc211990. doi: 10.2337/dc21-1990.

The Role of Intermittent Energy Restriction Diet on Metabolic Profile and Weight Loss among Obese Adults. Stanek A, Brożyna-Tkaczyk K, Zolghadri S, Cholewka A, Myśliński W. *Nutrients*. 2022 Apr 5;14(7):1509. doi: 10.3390/nu14071509.

Weight Status and Mental Well-Being Among Adolescents: The Mediating Role of Self-Perceived Body Weight. A Cross-National Survey. Fismen AS, Galler M, Klepp KI, Chatelan A, Residori C, Ojala K, Dzielska A, Kelly C, Melkumova M, Musić Milanović S, Nardone P, Štefanová E, Flodgren G, Bakke T, Ercan O, Samdal O, Helleve A. *J Adolesc Health*. 2022 Apr 12;S1054-139X(22)00331-7. doi: 10.1016/j.jadohealth.2022.02.010.

Can food parenting practices explain the association between socioeconomic status and children's food intake? The Feel4Diabetes-study. Flores-Barrantes P, Mavrogianni C, Iglesia I, Mahmood L, Willems R, Cardon G, De Vylder F, Liatis S, Makrilakis K, Martinez R, Schwarz P, Rurik I, Antal E, Iotova V, Tsochev K, Chakarova N, Kivelä J, Wikström K, Manios Y, Moreno LA; Feel4Diabetes-study Group. *Public Health Nutr*. 2022 Apr 13:1-35. doi: 10.1017/S1368980022000891.

Advancing Health Equity Efforts to Reduce Obesity: Changing the Course. Kumanyika SK. *Annu Rev Nutr.* 2022 Apr 13. doi: 10.1146/annurev-nutr-092021-050805.

An analysis of current obesity strategies for adolescents in NSW against best practice recommendations: implications for researchers, policymakers and practitioners. Partridge SR, Reece L, Sim KA, Todd A, Jia SS, Raeside R, Schirmer T, Phongsavan P, Redfern J. *Health Promot J Austr.* 2022 Apr 11. doi: 10.1002/hpja.606.

Examination of three-factor eating questionnaire subscale scores on weight loss and weight loss maintenance in a clinical intervention. Papini NM, Foster RNS, Lopez NV, Ptomey LT, Herrmann SD, Donnelly JE. *BMC Psychol.* 2022 Apr 15;10(1):101. doi: 10.1186/s40359-022-00806-8.

Factors affecting quality of life in low-income overweight and obese women: The mediating effects of health-promoting behaviors. Nho JH, Kim HY, Kim EJ. *Worldviews Evid Based Nurs.* 2022 Apr 13. doi: 10.1111/wvn.12564.

The association between the obesogenic environment and 6-month and 24-month weight change in a rural weight loss intervention trial in the United States. Saint Onge JM, Fagan M, Befort CA. *Prev Med.* 2022 May;158:107040. doi: 10.1016/j.ypmed.2022.107040.

How have media campaigns been used to promote and discourage healthy and unhealthy beverages in the United States? A systematic scoping review to inform future research to reduce sugary beverage health risks. Kraak VI, Consavage Stanley K, Harrigan PB, Zhou M. *Obes Rev.* 2022 May;23(5):e13425. doi: 10.1111/obr.13425.

How effective and how expensive are interventions to reduce sedentary behavior? An umbrella review and meta-analysis. Lam K, Baurecht H, Pahmeier K, Niemann A, Romberg C, Biermann-Stallwitz J, Neusser S, Wasem J, Mugler N, Welker C, Leitzmann M, Jochem C. *Obes Rev.* 2022 May;23(5):e13422. doi: 10.1111/obr.13422.

Impact of front-of-pack labels on the perceived healthfulness of a sweetened fruit drink: a randomised experiment in five countries. Jáuregui A, White CM, Vanderlee L, Hall MG, Contreras-Manzano A, Nieto C, Sacks G, Thrasher JF, Hammond D, Barquera S. *Public Health Nutr.* 2022 Apr;25(4):1094-1104. doi: 10.1017/S1368980021004535.

Black/White Disparities in Obesity Widen with Increasing Rurality: Evidence from a National Survey. Cohen SA, Nash CC, Byrne EN, Mitchell LE, Greaney ML. *Health Equity.* 2022 Mar 3;6(1):178-188. doi: 10.1089/heap.2021.0149.

The 2018 Revision of Italian Dietary Guidelines: Development Process, Novelty, Main Recommendations, and Policy Implications. Rossi L, Berni Canani S, Censi L, Gennaro L, Leclercq C, Scognamiglio U, Sette S, Ghiselli A. *Front Nutr.* 2022 Mar 25;9:861526. doi: 10.3389/fnut.2022.861526.

Does industry self-regulation restrict advertising? Evidence from the Children's Food and Beverage Advertising Initiative. Avery R, Cawley J, Eisenberg MD, Mathios A, Schulman CS. *Obesity (Silver Spring).* 2022 Apr;30(4):864-868. doi: 10.1002/oby.23388.

Effects of telephone support or short message service on body mass index, eating and screen time behaviours of children age 2 years: A 3-arm randomized controlled trial. Wen LM, Xu H, Taki S, Buchanan L, Rissel C, Phongsavan P, Hayes AJ, Bedford K, Moreton R, Baur LA. *Pediatr Obes.* 2022 May;17(5):e12875. doi: 10.1111/ijpo.12875.

In their own words: Topic analysis of the motivations and strategies of over 6,000 long-term weight-loss maintainers. Phelan S, Roake J, Alarcon N, Ng SM, Glanz H, Cardel MI, Foster GD. *Obesity (Silver Spring).* 2022 Mar;30(3):751-761. doi: 10.1002/oby.23372.

The association between fast-food outlet proximity and density and Body Mass Index: Findings from 147,027 Lifelines Cohort Study participants. van Erpecum CL, van Zon SKR, Bültmann U, Smidt N. *Prev Med.* 2022 Feb;155:106915. doi: 10.1016/j.ypmed.2021.106915.

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International: Research related to COVID-19

Changes in alcohol consumption, eating behaviors, and body weight during quarantine measures: Analysis of the CoCo-Fakt study. Wessely S, Tappiser M, Eisenburger N, Feddern S, Gehlhar A, Kilimann A, Klee L, Niessen J, Schmidt N, Wiesmüller GA, Kossow A, Grüne B, Joisten C. *Obes Facts.* 2022 Apr 13. doi: 10.1159/000524352.

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Systematic reviews

Weight-neutral interventions in young people with high body mass index: A systematic review. Hoare JK, Lister NB, Garnett SP, Baur LA, Jebeile H. *Nutr Diet.* 2022 Apr 11. doi: 10.1111/1747-0080.12729.

Economics of sedentary behaviour: A systematic review of cost of illness, cost-effectiveness, and return on investment studies. Nguyen P, Le LK, Ananthapavan J, Gao L, Dunstan DW, Moodie M. *Prev Med.* 2022 Mar;156:106964. doi: 10.1016/j.ypmed.2022.106964.

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Systematic reviews: Research related to COVID-19

A Systematic Review of the Impact of the First Year of COVID-19 on Obesity Risk Factors: A Pandemic Fueling a Pandemic? Daniels NF, Burrin C, Chan T, Fusco F. *Curr Dev Nutr.* 2022 Apr 8;6(4):nzac011. doi: 10.1093/cdn/nzac011.

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