



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 - 5](#)
- [International - 27](#)
- [Systematic reviews - 12](#)

UK and Ireland

[Interpregnancy weight gain and childhood obesity: analysis of a UK population-based cohort.](#) Ziauddeen N, Huang JY, Taylor E, Roderick PJ, Godfrey KM, Alwan NA. *Int J Obes (Lond)*. 2021 Oct 13. doi: 10.1038/s41366-021-00979-z.

[Modeling the impact of calorie-reduction interventions on population prevalence and inequalities in childhood obesity in the Southampton Women's Survey.](#) Russell SJ, Hope S, Croker H, Crozier S, Packer J, Inskip H, Viner RM. *Obes Sci Pract*. 2021 May 17;7(5):545-554. doi: 10.1002/osp4.520.

[Engaging people with long-term health conditions in a community-based physical activity initiative: a qualitative follow-up study evaluating the parkrun PROVE project.](#) Quirk H, Haake S. *BMC Sports Sci Med Rehabil*. 2021 Oct 10;13(1):123. doi: 10.1186/s13102-021-00351-8.

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

UK and Ireland: Research related to COVID-19

[Child wellbeing in the United Kingdom following the COVID-19 lockdowns.](#) Singh A, Shah N, Mbeledogu C, Garstang J. *Paediatr Child Health (Oxford)*. 2021 Sep 30. doi: 10.1016/j.paed.2021.09.004.

[COVID-19 Outcomes in Minority Ethnic Groups: Do Obesity and Metabolic Risk Play a Role?](#) Coleman P, Barber TM, van Rens T, Hanson P, Coffey A, Oyebo O. *Curr Obes Rep*. 2021 Oct 15. doi: 10.1007/s13679-021-00459-5.

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

International

[Obesity and Mental Health: A Longitudinal, Cross-Cultural Examination in Germany and China.](#) Lavalley KL, Zhang XC, Schneider S, Margraf J. *Front Psychol*. 2021 Sep 21;12:712567. doi: 10.3389/fpsyg.2021.712567.

Overweight and obesity by school socioeconomic composition and adolescent socioeconomic status: a school-based study. Luigi M, Rey O, Travert M, Griffet J. BMC Public Health. 2021 Oct 11;21(1):1837. doi: 10.1186/s12889-021-11752-2.

Obesity, overweight and risk for cardiovascular disease and mortality in young women. Dikaiou P, Björck L, Adiels M, Lundberg CE, Mandalenakis Z, Manhem K, Rosengren A. Eur J Prev Cardiol. 2021 Oct 13;28(12):1351-1359. doi: 10.1177/2047487320908983.

The Relationship between Weight Stigma, Physical Appearance Concerns, and Enjoyment and Tendency to Avoid Physical Activity and Sport. Bevan N, O'Brien KS, Lin CY, Latner JD, Vandenberg B, Jeanes R, Puhl RM, Chen IH, Moss S, Rush G. Int J Environ Res Public Health. 2021 Sep 22;18(19):9957. doi: 10.3390/ijerph18199957.

Association between Soft-Drink Intake and Obesity, Depression, and Subjective Health Status of Male and Female Adults. Kim JM, Lee E. Int J Environ Res Public Health. 2021 Oct 3;18(19):10415. doi: 10.3390/ijerph181910415.

The nutrition transition to a stage of high obesity and noncommunicable disease prevalence dominated by ultra-processed foods is not inevitable. Popkin BM, Ng SW. Obes Rev. 2021 Oct 10. doi: 10.1111/obr.13366.

Effects of programs and interventions related to the social environment on childhood and adolescent obesity: A systematic search for and scoping review of natural experiments. Lin Y, McGaughey T, Wilson JP. Health Place. 2021 Oct 9;72:102689. doi: 10.1016/j.healthplace.2021.102689.

Validation and refinement of the Stakeholder-driven Community Diffusion Survey for childhood obesity prevention. Korn AR, Appel J, Hammond RA, Hennessy E, Mâsse LC, Must A, Economos CD. Implement Sci. 2021 Oct 9;16(1):91. doi: 10.1186/s13012-021-01158-4.

Retrospective descriptive analysis of a managed care population with obesity. Osterland A, King C, Kumar N, Mocarski M, Ramasamy A, Walker C, Darji H, Godley P. Curr Med Res Opin. 2021 Oct 13:1-20. doi: 10.1080/03007995.2021.1991900.

The role of family factors in the association between early adulthood BMI and risk of cardiovascular disease. An intergenerational study of BMI in early adulthood and cardiovascular mortality in parents, aunts and uncles. Kjøllesdal MKR, Carslake D, Smith GD, Shaikh F, Næss Ø. Int J Obes (Lond). 2021 Oct 14. doi: 10.1038/s41366-021-00987-z.

A mixed methods analysis of environmental and household chaos: considerations for early-childhood obesity research. Krupsky KL, Parrott A, Andridge R, Zvara BJ, Keim SA, Anderson SE. BMC Public Health. 2021 Oct 16;21(1):1867. doi: 10.1186/s12889-021-11936-w.

Developing the logic framework underpinning a whole-systems approach to childhood overweight and obesity prevention: Amsterdam Healthy Weight Approach. Sawyer A, den Hertog K, Verhoeff AP, Busch V, Stronks K. Obes Sci Pract. 2021 May 3;7(5):591-605. doi: 10.1002/osp4.505.

Physical activity, diet, and weight loss in patients recruited from primary care settings: An update on obesity management interventions. de Lannoy L, Cowan T, Fernandez A, Ross R. Obes Sci Pract. 2021 May 4;7(5):619-628. doi: 10.1002/osp4.514.

Processed Foods - Getting Back to The Basics. Mohamed Elfadil O, Patel J, Patel I, Ewy MW, Hurt RT, Mundi MS. Curr Gastroenterol Rep. 2021 Oct 13;23(12):20. doi: 10.1007/s11894-021-00828-z.

Feasibility of a virtual nutrition intervention for adolescents with autism spectrum disorder. Buro AW, Gray HL, Kirby RS, Marshall J, Strange M, Pang T, Hasan S, Holloway J. Autism. 2021 Oct 11:13623613211051150. doi: 10.1177/13623613211051150.

The Impact of Morbid Obesity on the Health Outcomes of Hospital Inpatients: An Observational Study. Fusco K, Thompson C, Woodman R, Horwood C, Hakendorf P, Sharma Y. *J Clin Med.* 2021 Sep 25;10(19):4382. doi: 10.3390/jcm10194382.

A-ONE - an accessible online nutrition & exercise program for youth with physical disabilities. Hauck Janet L, Pasik Piotr J, Ketcheson Leah R. *Contemp Clin Trials.* 2021 Oct 12:106594. doi: 10.1016/j.cct.2021.106594.

A randomized controlled trial of an innovative, user-friendly, interactive smartphone app-based lifestyle intervention for weight loss. Vaz CL, Carnes N, Pousti B, Zhao H, Williams KJ. *Obes Sci Pract.* 2021 May 3;7(5):555-568. doi: 10.1002/osp4.503.

Do intersecting identities structure social contexts to influence life course health? The case of school peer economic disadvantage and obesity. Polos J, Koning S, McDade T. *Soc Sci Med.* 2021 Sep 29;289:114424. doi: 10.1016/j.socscimed.2021.114424.

A Harvest of the Month Curriculum Increases Fruit and Vegetable Intake among 4th-6th Grade Students. Strohlic R, Woodward-Lopez G, Hewawitharana S, Streng K, Richardson J, Whetstone L, Gorshow D. *J Sch Health.* 2021 Sep;91(9):750-760. doi: 10.1111/josh.13066.

Feasibility of Using Bioelectrical Impedance Analysis for Assessing Youth Weight and Health Status: Preliminary Findings. Howe CA, Corrigan RJ, Djalali M, McManaway C, Grbcich A, Aidoo GS. *Int J Environ Res Public Health.* 2021 Sep 26;18(19):10094. doi: 10.3390/ijerph181910094.

Quantifying parent engagement in the randomized Fuel for Fun impact study identified design considerations and BMI relationships. Lohse B, Cunningham-Sabo L. *BMC Med Res Methodol.* 2021 Oct 9;21(1):205. doi: 10.1186/s12874-021-01398-4.

Implementing texting programs in the P.O.W.E.R. (preventing obesity with eating right) medical group visit for weight loss. Saldivar P, Mira V, Duran P, Moldovan C, Ang G, Parikh N, Lee ML, Friedman TC. *Obes Sci Pract.* 2021 May 4;7(5):583-590. doi: 10.1002/osp4.513.

Predictors of long-term weight loss trajectories during a behavioral weight loss intervention: An exploratory analysis. Ostendorf DM, Blankenship JM, Grau L, Arbet J, Mitchell NS, Creasy SA, Caldwell AE, Melanson EL, Phelan S, Bessesen DH, Catenacci VA. *Obes Sci Pract.* 2021 May 19;7(5):569-582. doi: 10.1002/osp4.530.

Behavioral Economic Approaches to Childhood Obesity Prevention Nutrition Policies: A Social Ecological Perspective. Cory M, Loiacono B, Clark Withington M, Herman A, Jagpal A, Buscemi J. *Perspect Behav Sci.* 2021 Jun 4;44(2-3):317-332. doi: 10.1007/s40614-021-00294-y.

Preferences on how to measure and discuss health related quality of life within integrated care for children with obesity. Eilander MMA, van Mil MMA, Koetsier LW, Seidell JC, Halberstadt J. *J Patient Rep Outcomes.* 2021 Oct 14;5(1):106. doi: 10.1186/s41687-021-00381-3.

Three-Year Intervention Effects on Food and Beverage Intake-Results from the Quasi-Experiment Copenhagen School Child Intervention Study (CoSCIS). Ren X, Jensen BW, Larsen SC, Rohde JI, Specht IO, Nielsen BM, Husby I, Bugge A, Andersen LB, Trolle E, Heitmann BL. *Int J Environ Res Public Health.* 2021 Oct 8;18(19):10543. doi: 10.3390/ijerph181910543.

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

Systematic reviews

Age-related change in sedentary behavior during childhood and adolescence: A systematic review and meta-analysis. Kontostoli E, Jones AP, Pearson N, Foley L, Biddle SJH, Atkin AJ. *Obes Rev.* 2021 Sep;22(9):e13263. doi: 10.1111/obr.13263. Epub 2021 Jun 3.

Implementing Food Environment Policies at Scale: What Helps? What Hinders? A Systematic Review of Barriers and Enablers. Nguyen B, Cranney L, Bellew B, Thomas M. *Int J Environ Res Public Health*. 2021 Sep 30;18(19):10346. doi: 10.3390/ijerph181910346.

Nutrition, Physical Activity, and New Technology Programs on Obesity Prevention in Primary Education: A Systematic Review. Navidad L, Padial-Ruz R, González MC. *Int J Environ Res Public Health*. 2021 Sep 28;18(19):10187. doi: 10.3390/ijerph181910187.

Measurement of screen time among young children aged 0-6 years: A systematic review. Byrne R, Terranova CO, Trost SG. *Obes Rev*. 2021 Aug;22(8):e13260. doi: 10.1111/obr.13260.

Sensory and physical characteristics of foods that impact food intake without affecting acceptability: Systematic review and meta-analyses. Appleton KM, Newbury A, Almiron-Roig E, Yeomans MR, Brunstrom JM, de Graaf K, Geurts L, Kildegaard H, Vinoy S. *Obes Rev*. 2021 Aug;22(8):e13234. doi: 10.1111/obr.13234.

The role of dietary diversity in preventing metabolic-related outcomes: Findings from a systematic review. Mozaffari H, Hosseini Z, Lafrenière J, Conklin AI. *Obes Rev*. 2021 Jun;22(6):e13174. doi: 10.1111/obr.13174.

The association between childhood adiposity and appetite assessed using the Child Eating Behavior Questionnaire and Baby Eating Behavior Questionnaire: A systematic review and meta-analysis. Kininmonth A, Smith A, Carnell S, Steinsbekk S, Fildes A, Llewellyn C. *Obes Rev*. 2021 May;22(5):e13169. doi: 10.1111/obr.13169.

The impact of, and views on, school food intervention and policy in young people aged 11-18 years in Europe: A mixed methods systematic review. Rose K, O'Malley C, Eskandari F, Lake AA, Brown L, Ells LJ. *Obes Rev*. 2021 May;22(5):e13186. doi: 10.1111/obr.13186.

Understanding children and young people's experiences pursuing weight loss maintenance using the Socio-ecological Model: A qualitative systematic literature review. Lang S, Gibson S, Ng KW, Truby H. *Obes Rev*. 2021 May;22(5):e13172. doi: 10.1111/obr.13172

The effect of front-of-package labels or point-of-sale signage on consumer knowledge, attitudes and behavior regarding sugar-sweetened beverages: a systematic review. Gupta A, Billich N, George NA, Blake MR, Huse O, Backholer K, Boelsen-Robinson T, Peeters A. *Nutr Rev*. 2021 Sep 7;79(10):1165-1181. doi: 10.1093/nutrit/nuaa107.

School-based physical activity interventions in rural and urban/suburban communities: A systematic review and meta-analysis. Pfladderer CD, Burns RD, Byun W, Carson RL, Welk GJ, Brusseau TA. *Obes Rev*. 2021 Sep;22(9):e13265. doi: 10.1111/obr.13265.

The effects of motivational interviewing on children's body mass index and fat distributions: A systematic review and meta-analysis. Kao TA, Ling J, Hawn R, Vu C. *Obes Rev*. 2021 Oct;22(10):e13308. doi: 10.1111/obr.13308.

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