



# 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 - 21](#)
- [Systematic reviews - 4](#)

## UK and Ireland

[Common Determinants of Dental Caries and Obesity in Children: A Multi-Ethnic Nested Birth Cohort Study in the United Kingdom](#). Uerlich MF, Baker SR, Day PF, Brown L, Vettore MV. *Int J Environ Res Public Health*. 2021 Nov 29;18(23):12561. doi: 10.3390/ijerph182312561.

[ImpulsePal: The systematic development of a smartphone app to manage food temptations using intervention mapping](#). van Beurden SB, Greaves CJ, Abraham C, Lawrence NS, Smith JR. *Digit Health*. 2021 Nov 25;7:20552076211057667. doi: 10.1177/20552076211057667

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

## International

[Ultraprocessed food consumption and dietary nutrient profiles associated with obesity: A multicountry study of children and adolescents](#). Neri D, Steele EM, Khandpur N, Cediël G, Zapata ME, Rauber F, Marrón-Ponce JA, Machado P, da Costa Louzada ML, Andrade GC, Batis C, Babio N, Salas-Salvadó J, Millett C, Monteiro CA, Levy RB; NOVA Multi-Country Study Group on Ultra-Processed Foods, Diet Quality and Human Health. *Obes Rev*. 2021 Dec 9:e13387. doi: 10.1111/obr.13387.

[A Theory- and Evidence-Based Digital Intervention Tool for Weight Loss Maintenance \(NoHoW Toolkit\): Systematic Development and Refinement Study](#). Marques MM, Matos M, Mattila E, Encantado J, Duarte C, Teixeira PJ, Stubbs RJ, Sniehotta FF, Ermes M, Harjumaa M, Leppänen J, Väلكkynen P, Silva MN, Ferreira C, Carvalho S, Palmeira L, Horgan G, Heitmann BL, Evans EH, Palmeira AL. *J Med Internet Res*. 2021 Dec 3;23(12):e25305. doi: 10.2196/25305.

[Mechanisms of an eHealth program targeting depression in men with overweight or obesity: A randomised trial](#). Drew RJ, Morgan PJ, Young MD. *J Affect Disord*. 2021 Dec 3:S0165-0327(21)01318-5. doi: 10.1016/j.jad.2021.12.001.

[Association between obesity grade and the age of the first acute coronary syndrome: A cross-sectional observational study](#). Demirci D, Demirci DE, Chi G. *Int J Cardiol*. 2021 Dec 2:S0167-5273(21)01971-9. doi: 10.1016/j.ijcard.2021.11.080.

**Effects of Weight and Pain on Physical Activity: Insights from the Lived Experiences of Youth with Co-Occurring Chronic Pain and Obesity.** Gremillion ML, Lang AC, Everhart SA, Davies WH, Stolzman SC, Weisman SJ, Hainsworth KR. *Child Obes.* 2021 Dec 10. doi: 10.1089/chi.2021.0208.

**Risk and protective factors of non-alcoholic fatty liver disease in paediatric obesity: A nationwide nested case-control study.** Putri RR, Casswall T, Hagman E. *Clin Obes.* 2021 Dec 6:e12502. doi: 10.1111/cob.12502.

**Scaling a Community-Wide Campaign Intervention to Manage Hypertension and Weight Loss.** Reininger BM, Mitchell-Bennett LA, Lee M, Yeh PG, Davé AC, Park SK, Xu T, Ochoa-Del Toro AG. *Front Med (Lausanne).* 2021 Nov 22;8:661353. doi: 10.3389/fmed.2021.661353.

**BMI Data Collection and Communication Practices in a Multistate Sample of Head Start Programs.** Tovar A, Miller ME, Stage VC, Hoffman JA, Guseman EH, Sisson S, Shefet D, Benjamin-Neelon SE, Swindle T, Hasnin S, Beltran M. *Child Obes.* 2021 Dec 7. doi: 10.1089/chi.2021.0199.

**Energy-dense dietary patterns high in free sugars and saturated fat and associations with obesity in young adults.** Livingstone KM, Sexton-Dhamu MJ, Pendergast FJ, Worsley A, Brayner B, McNaughton SA. *Eur J Nutr.* 2021 Dec 6. doi: 10.1007/s00394-021-02758-y.

**Pediatric weight management interventions improve prevalence of overeating behaviors.** Harshman SG, Castro I, Perkins M, Luo M, Barrett Mueller K, Cena H, Portale S, Raspini B, Taveras E, Fiechtner L. *Int J Obes (Lond).* 2021 Dec 3. doi: 10.1038/s41366-021-00989-x.

**Weight Stigma and Social Media: Evidence and Public Health Solutions.** Clark O, Lee MM, Jingree ML, O'Dwyer E, Yue Y, Marrero A, Tamez M, Bhupathiraju SN, Mattei J. *Front Nutr.* 2021 Nov 12;8:739056. doi: 10.3389/fnut.2021.739056.

**Impact of a pharmacist-run weight loss medication management service.** Haverkamp K, Newberry P, Baker J. *J Am Pharm Assoc (2003).* 2021 Nov 24:S1544-3191(21)00483-0. doi: 10.1016/j.japh.2021.11.022.

**Using the Edmonton Obesity Staging System in the real world: a feasibility study based on cross-sectional data.** Swaleh R, McGuckin T, Myroniuk TW, Manca D, Lee K, Sharma AM, Campbell-Scherer D, Yeung RO. *CMAJ Open.* 2021 Dec 7;9(4):E1141-E1148. doi: 10.9778/cmajo.20200231.

**A Theory of Change for Community-Based Systems Interventions to Prevent Obesity.** Brown AD, Whelan J, Bolton KA, Nagorcka-Smith P, Hayward J, Fraser P, Strugnell C, Felmingham T, Nichols M, Bell C, Le HND, Allender S. *Am J Prev Med.* 2021 Dec 2:S0749-3797(21)00561-4. doi: 10.1016/j.amepre.2021.10.006.

**Motivational profiles and change in physical activity during a weight loss intervention: a secondary data analysis.** Ostendorf DM, Schmiede SJ, Conroy DE, Phelan S, Bryan AD, Catenacci VA. *Int J Behav Nutr Phys Act.* 2021 Dec 4;18(1):158. doi: 10.1186/s12966-021-01225-5.

**Device-measured physical activity, adiposity and mortality: a harmonised meta-analysis of eight prospective cohort studies.** Tarp J, Fagerland MW, Dalene KE, Johannessen JS, Hansen BH, Jefferis BJ, Whincup PH, Diaz KM, Hooker S, Howard VJ, Chernofsky A, Larson MG, Spartano NL, Vasan RS, Dohrn IM, Hagströmer M, Edwardson C, Yates T, Shiroma EJ, Dempsey PC, Wijndaele K, Anderssen SA, Lee IM, Ekelund U. *Br J Sports Med.* 2021 Dec 7:bj sports-2021-104827. doi: 10.1136/bjsports-2021-104827.

**Weight Change for Pediatric Completers in a National Weight Loss Program.** Cason-Wilkerson R, Thompson D, Mitchell N. *Glob Pediatr Health*. 2021 Nov 23;8:2333794X211057716. doi: 10.1177/2333794X211057716.

**The Role of Psychological Well-Being in Weight Loss: New Insights from a Comprehensive Lifestyle Intervention.** Zhu B, Gostoli S, Benasi G, Patierno C, Petroni ML, Nuccitelli C, Marchesini G, Fava GA, Rafanelli C. *Int J Clin Health Psychol*. 2022 Jan-Apr;22(1):100279. doi: 10.1016/j.ijchp.2021.100279.

**How Helpful and What Is the Quality of Digital Sources of Healthy Lifestyle Information Used by Australian Adolescents? A Mixed Methods Study.** Armstrong M, Halim NK, Raeside R, Jia SS, Hyun K, Boroumand F, Mandoh M, Singleton AC, Phongsavan P, Redfern J, Partridge SR. *Int J Environ Res Public Health*. 2021 Dec 6;18(23):12844. doi: 10.3390/ijerph182312844.

**Revisiting trajectories of BMI in youth: An in-depth analysis of differences between BMI and other adiposity measures.** Sylvestre MP, Ahun MN, O'Loughlin J. *Obes Sci Pract*. 2021 Jun 25;7(6):711-718. doi: 10.1002/osp4.538.

**Pilot evaluation of obesity-specific health-related quality of life following a 12-week non-randomized lifestyle intervention in youth.** Randhawa S, Randhawa N, Hassanin EH, Yi-Frazier JP, Briggs Early K. *Obes Sci Pract*. 2021 Jun 11;7(6):803-807. doi: 10.1002/osp4.535.

**The challenge of addressing obesity in people with poorly controlled asthma.** Dixon AE, Blake KV, DiMango EA, Dransfield MT, Feemster LC, Johnson O, Roy G, Hazucha H, Harvey J, McCormack MC, Wise RA, Holbrook JT. *Obes Sci Pract*. 2021 May 25;7(6):682-689. doi: 10.1002/osp4.533.

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

## **Systematic reviews**

**Total dairy consumption in relation to overweight and obesity in children and adolescents: A systematic review and meta-analysis.** Babio N, Becerra-Tomás N, Nishi SK, López-González L, Paz-Graniel I, García-Gavilán J, Schröder H, Martín-Calvo N, Salas-Salvador J. *Obes Rev*. 2021 Dec 8:e13400. doi: 10.1111/obr.13400.

**Research priority setting in obesity: a systematic review.** Iqbal H, McEachan RRC, West J, Haith-Cooper M. *Z Gesundh Wiss*. 2021 Dec 3:1-17. doi: 10.1007/s10389-021-01679-8.

**Cultural adaptations of obesity-related behavioral prevention interventions in early childhood: A systematic review.** Marshall S, Taki S, Laird Y, Love P, Wen LM, Rissel C. *Obes Rev*. 2021 Dec 5:e13402. doi: 10.1111/obr.13402.

**Underestimation of overweight weight status in children and adolescents aged 0-19 years: A systematic review and meta-analysis.** Alshahrani A, Shuweihi F, Swift J, Avery A. *Obes Sci Pract*. 2021 May 31;7(6):760-796. doi: 10.1002/osp4.531.

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