



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 - 6](#)
- [International - 33](#)
- [Systematic reviews - 4](#)

UK and Ireland

[Obesity trends over 10 years in primary hip and knee arthroplasty—a study of 12,000 patients.](#) Downey C, John KS, Chatterji J, Cassar-Gheiti A, O'Byrne JM, Kenny P, Cashman JP. *Ir J Med Sci.* 2022 Jul 8. doi: 10.1007/s11845-022-03092-w.

[How do local authority plans to tackle obesity reflect systems thinking?](#) Taheem R, Woods-Townsend K, Lawrence W, Baird J, Godfrey KM, Hanson M. *Perspect Public Health.* 2022 Jul 7;17579139221106337. doi: 10.1177/17579139221106337.

[Estimating the impact of changes in weight and BMI on EQ-5D-3L: a longitudinal analysis of a behavioural group-based weight loss intervention.](#) Breeze P, Gray LA, Thomas C, Bates SE, Brennan A. *Qual Life Res.* 2022 Jul 7. doi: 10.1007/s11136-022-03178-z.

[Childhood obesity, is fast food exposure a factor?](#) Dolton PJ, Tafesse W. *Econ Hum Biol.* 2022 Jun 26;46:101153. doi: 10.1016/j.ehb.2022.101153.

[Acceptability, Usability and Weight Loss Outcomes in a Randomized Cross-Over Study of Commercially Available Portion Size Tools in an Overweight South Asian Community.](#) Ellahi B, Aitken A, Dikmen D, Seyhan-Erdoğan B, Makda M, Razaq R. *Int J Environ Res Public Health.* 2022 Jun 23;19(13):7714. doi: 10.3390/ijerph19137714.

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

UK and Ireland: Research related to COVID-19

[Associations of BMI with COVID-19 vaccine uptake, vaccine effectiveness, and risk of severe COVID-19 outcomes after vaccination in England: a population-based cohort study.](#) Piernas C, Patone M, Astbury NM, Gao M, Sheikh A, Khunti K, Shankar-Hari M, Dixon S, Coupland C, Aveyard P, Hippisley-Cox J, Jebb SA. *Lancet Diabetes Endocrinol.* 2022 Jun 30:S2213-8587(22)00158-9. doi: 10.1016/S2213-8587(22)00158-9.

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

International

Nutrition for precision health: The time is now. Qi L. *Obesity* (Silver Spring). 2022 Jul;30(7):1335-1344. doi: 10.1002/oby.23448.

Changes in the Incidence of Childhood Obesity. Cunningham SA, Hardy ST, Jones R, Ng C, Kramer MR, Narayan KMV. *Pediatrics*. 2022 Jul 5:e2021053708. doi: 10.1542/peds.2021-053708.

Can the relationship between overweight/obesity and sleep quality be explained by affect and behaviour? Eid SW, Brown RF, Maloney SK, Birmingham CL. *Eat Weight Disord*. 2022 Jul 6. doi: 10.1007/s40519-022-01435-1.

Behavioral Interventions After Bariatric Surgery. Tewksbury C, Isom KA. *Curr Treat Options Gastroenterol*. 2022 Jun 24:1-10. doi: 10.1007/s11938-022-00388-9.

Obesity and Bariatric Surgery in Australia: Future Projection of Supply and Demand, and Costs. Dona SWA, Angeles MR, Nguyen D, Gao L, Hensher M. *Obes Surg*. 2022 Jul 8. doi: 10.1007/s11695-022-06188-5.

Local government policies on healthy food promotion and obesity prevention: results from a national Australian survey. Riesenber D, Blake MR, Boelsen-Robinson T, Peeters A, Cameron AJ. *Aust N Z J Public Health*. 2022 Jul 7. doi: 10.1111/1753-6405.13257.

Association of the "Weekend Warrior" and Other Leisure-time Physical Activity Patterns With All-Cause and Cause-Specific Mortality: A Nationwide Cohort Study. Dos Santos M, Ferrari G, Lee DH, Rey-López JP, Aune D, Liao B, Huang W, Nie J, Wang Y, Giovannucci E, Rezende LFM. *JAMA Intern Med*. 2022 Jul 5. doi: 10.1001/jamainternmed.2022.2488.

Association between body shape index and risk of mortality in the United States. Lee H, Chung HS, Kim YJ, Choi MK, Roh YK, Chung W, Yu JM, Oh CM, Moon S. *Sci Rep*. 2022 Jul 4;12(1):11254. doi: 10.1038/s41598-022-15015-x.

Past, present, and future trends of overweight and obesity in Belgium using Bayesian age-period-cohort models. De Pauw R, Claessens M, Gorasso V, Drieskens S, Faes C, Devleeschauwer B. *BMC Public Health*. 2022 Jul 7;22(1):1309. doi: 10.1186/s12889-022-13685-w.

Improvements in Depression Outcomes Following a Digital Cognitive Behavioral Therapy Intervention in a Polychronic Population: Retrospective Study. Venkatesan A, Forster B, Rao P, Miller M, Scahill M. *JMIR Form Res*. 2022 Jul 5;6(7):e38005. doi: 10.2196/38005.

Smoking-interaction loci affect obesity traits: a gene-smoking stratified meta-analysis of 545,131 Europeans. Lee WJ, Lim JE, Kang JO, Ha TW, Jung HU, Kim DJ, Baek EJ, Kim HK, Chung JY, Oh B. *Lifestyle Genom*. 2022 Jul 6. doi: 10.1159/000525749.

Relative validity of a short screener to assess diet quality in patients with morbid obesity before and after bariatric surgery. Heusschen L, Berendsen AAM, Balvers MGJ, Deden LN, de Vries JHM, Hazebroek EJ. *Public Health Nutr*. 2022 Jul 4:1-27. doi: 10.1017/S1368980022001501.

Effect of a Weight Loss and Lifestyle Intervention on Dietary Behavior in Men with Obstructive Sleep Apnea: The INTERAPNEA Trial. Carneiro-Barrera A, Amaro-Gahete FJ, Jurado-Fasoli L, Sáez-Roca G, Martín-Carrasco C, Tinahones FJ, Ruiz JR. *Nutrients*. 2022 Jun 30;14(13):2731. doi: 10.3390/nu14132731.

Consulting Obese and Overweight Patients for Nutrition and Physical Activity in Primary Healthcare in Poland. Znyk M, Zajdel R, Kaleta D. *Int J Environ Res Public Health*. 2022 Jun 23;19(13):7694. doi: 10.3390/ijerph19137694.

A qualitative study on multisector activities to prevent childhood obesity in the municipality of Seinäjoki, Finland. Koivusilta L, Alanne S, Kamila M, Ståhl T. *BMC Public Health*. 2022 Jul 6;22(1):1298. doi: 10.1186/s12889-022-13658-z.

Adding a One Health approach to a research framework for minority health and health disparities. Morgan BL, Stern MC, Pérez-Stable EJ, Hooper MW, Fejerman L. *Elife*. 2022 Jul 7;11:e76461. doi: 10.7554/eLife.76461.

Health-related quality of life 6 years after bariatric surgery: factors influencing outcome. Soares C, Pinho AC, Sousa HS, da Costa EL, Preto J. *Porto Biomed J*. 2022 Jun 17;7(3):e163. doi: 10.1097/j.pbj.000000000000163.

Associations between sleep, obesity, and asthma in urban minority children. Conrad LA, Nandalike K, Rani S, Rastogi D. *J Clin Sleep Med*. 2022 Jul 8. doi: 10.5664/jcsm.10114.

The Profiling of Diet and Physical Activity in Reproductive Age Women and Their Association with Body Mass Index. Awoke MA, Wycherley TP, Earnest A, Skouteris H, Moran LJ. *Nutrients*. 2022 Jun 23;14(13):2607. doi: 10.3390/nu14132607.

Automated growth monitoring app (GROWIN): a mobile Health (mHealth) tool to improve the diagnosis and early management of growth and nutritional disorders in childhood. de Arriba Muñoz A, García Castellanos MT, Cajal MD, Beisti Ortego A, Ruiz IM, Labarta Aizpún JI. *J Am Med Inform Assoc*. 2022 Jul 7:ocac108. doi: 10.1093/jamia/ocac108.

A healthy migrant effect? Estimating health outcomes of the undocumented immigrant population in the United States using machine learning. Ruhnke SA, Reynolds MM, Wilson FA, Stimpson JP. *Soc Sci Med*. 2022 Jun 30;307:115177. doi: 10.1016/j.socscimed.2022.115177.

Cardiometabolic Risk Factors Among Insufficiently Active African American Women With Obesity: Baseline Findings From Smart Walk. Joseph RP, Ainsworth BE, Vega-López S, Adams MA, Todd M, Gaesser GA, Keller C. *J Cardiovasc Nurs*. 2022 Jul 5. doi: 10.1097/JCN.0000000000000930.

The Effect of Tailored, Daily, Smartphone Feedback to Lifestyle Self-Monitoring on Weight Loss at 12 Months: the SMARTER Randomized Clinical Trial. Burke LE, Sereika SM, Bizhanova Z, Parmanto B, Kariuki J, Cheng J, Beatrice B, Cedillo M, Pulantara IW, Wang Y, Loar I, Conroy MB. *J Med Internet Res*. 2022 Jul 5;24(7):e38243. doi: 10.2196/38243.

Association of snacking frequency, size, and energy density with weight status among U.S. preschool children. Croce CM, Tripicchio GL, Coffman DL, Fisher JO. *J Acad Nutr Diet*. 2022 Jul 6:S2212-2672(22)00625-6. doi: 10.1016/j.jand.2022.07.001.

Neighborhood Walkability Is Associated with Physical Activity and Prediabetes in a Behavioral Weight Loss Study: a Secondary Analysis. Kariuki JK, Rockette-Wagner B, Cheng J, Erickson KI, Gibbs BB, Sereika SM, Kline CE, Mendez DD, Wayan PI, Bizhanova Z, Saad MAB, Burke LE. *Int J Behav Med*. 2022 Jul 6. doi: 10.1007/s12529-022-10112-7.

The Roles of Depression and Binge Eating in the Relationship Between Adverse Childhood Experiences (ACEs) and Obesity. Tabone JK, Cox S, Aylward L, Abunnaja S, Szoka N, Tabone LE. *Obes Surg*. 2022 Jul 5. doi: 10.1007/s11695-022-06192-9.

Adverse childhood experiences, health behaviors, and associations with obesity among youth in the United States. Santos M, Burton ET, Cadieux A, Gaffka B, Shaffer L, Cook JL, Tucker JM. Behav Med. 2022 Jul 6:1-11. doi: 10.1080/08964289.2022.2077294.

Cardiovascular Disease Risk Reduction and Body Mass Index. Samson R, Ennezat PV, Le Jemtel TH, Oparil S. Curr Hypertens Rep. 2022 Jul 5. doi: 10.1007/s11906-022-01213-5

Higher Preoperative Weight loss Is Associated with Greater Weight Loss up to 12 Months After Bariatric Surgery. Romaen IFL, Jense MTF, Palm-Meinders IH, de Witte E, Franssen SAF, Greve JWM, Boerma EG. Obes Surg. 2022 Jul 5. doi: 10.1007/s11695-022-06176-9.

Methods recently used for the assessment of physical activity in children and adolescents. Jurado-Castro JM, Gil-Campos M, Llorente-Cantarero FJ. Curr Opin Clin Nutr Metab Care. 2022 Jul 6. doi: 10.1097/MCO.0000000000000847.

The Intersection of Neighborhood Environment and Adverse Childhood Experiences: Methods for Creation of a Neighborhood ACEs Index. Schroeder K, Dumenci L, Sarwer DB, Noll JG, Henry KA, Suglia SF, Forke CM, Wheeler DC. Int J Environ Res Public Health. 2022 Jun 25;19(13):7819. doi: 10.3390/ijerph19137819.

Drawing on Cultural Traditions to Improve Cardiorespiratory Fitness with South Asian Children: A Feasibility Study. Tang TS, Mahmood B, Amed S, McKay H. Child Obes. 2022 Jul;18(5):333-341. doi: 10.1089/chi.2021.0187.

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

International: Research related to COVID-19

Impact of Obesity on Vaccination to SARS-CoV-2. Nasr MC, Geerling E, Pinto AK. Front Endocrinol (Lausanne). 2022 Jun 20;13:898810. doi: 10.3389/fendo.2022.898810.

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

Systematic reviews

Weight Management Interventions Provided by a Dietitian for Adults with Overweight or Obesity: An Evidence Analysis Center Systematic Review and Meta-Analysis. Morgan-Bathke M, Baxter SD, Halliday TM, Lynch A, Malik N, Raynor HA, Garay JL, Rozga M. J Acad Nutr Diet. 2022 Mar 25:S2212-2672(22)00170-8. doi: 10.1016/j.jand.2022.03.014.

Effectiveness of active video games in overweight and obese adolescents: a systematic review and meta-analysis of randomized controlled trials. Erçelik ZE, Çağlar S. Ann Pediatr Endocrinol Metab. 2022 Jun;27(2):98-104. doi: 10.6065/apem.2244036.018.

Loss of control as a transdiagnostic feature in obesity-related eating behaviours: A systematic review. Catania J, Spirou D, Gascoigne M, Raman J. Eur Eat Disord Rev. 2022 Jul 8. doi: 10.1002/erv.2936.

Systematic review of the effectiveness of health promotion interventions targeting obesity prevention in school-based staff. Hill A, Alston L, Needham C, Peeters A, LaMontagne AD, Nichols M. Health Promot Int. 2022 Jun 1;37(3):daac061. doi: 10.1093/heapro/daac061.

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