



# 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

**The health, cost and equity impacts of restrictions on the advertisement of high fat, salt and sugar products across the transport for London network: a health economic modelling study.**  
Thomas C, Breeze P, Cummins S, Cornelsen L, Yau A, Brennan A. *Int J Behav Nutr Phys Act.* 2022 Jul 27;19(1):93. doi: 10.1186/s12966-022-01331-y.

**Weight loss outcomes achieved by adults accessing an online programme offered as part of Public Health England's 'Better Health' campaign.** Toon J, Geneva M, Sharpe P, Lavin J, Bennett S, Avery A. *BMC Public Health.* 2022 Jul 30;22(1):1456. doi: 10.1186/s12889-022-13847-w.

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### ***UK and Ireland: Research related to COVID-19***

**At home and at risk: The experiences of Irish adults living with obesity during the COVID-19 pandemic.** Farrell E, Hollmann E, Roux CL, Nadglowski J, McGillicuddy D. *EClinicalMedicine.* 2022 Jul 18;51:101568. doi: 10.1016/j.eclim.2022.101568.

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## International

**A Longitudinal Effectiveness Study of a Child Obesity Electronic Health Record Tool.**  
Braddock A, Koopman RJ, Smith J, Lee AS, Holt McNair S, Hampl S, Wareg N, Clary M, Miller N, Turer CB. *J Am Board Fam Med.* 2022 Jul-Aug;35(4):742-750. doi: 10.3122/jabfm.2022.04.210385.

**Comparison of weight loss data collected by research technicians versus electronic medical records: the PROPEL trial.** Katzmarzyk PT, Mire EF, Martin CK, Newton RL Jr, Apolzan JW, Price-Haywood EG, Denstel KD, Horswell R, Chu ST, Johnson WD; PROPEL Research Group. *Int J Obes (Lond).* 2022 Aug;46(8):1456-1462. doi: 10.1038/s41366-022-01129-9.

**Association between built environments and weight status: evidence from longitudinal data of 9589 Australian children.** Putra IGNE, Astell-Burt T, Feng X. *Int J Obes (Lond)*. 2022 Aug;46(8):1534-1543. doi: 10.1038/s41366-022-01148-6.

**Effectiveness of a behavioral lifestyle intervention on weight management and mobility improvement in older informal caregivers: a secondary data analysis.** Liu X, King J, Boak B, Danielson ME, Boudreau RM, Newman AB, Venditti EM, Albert SM. *BMC Geriatr*. 2022 Jul 28;22(1):626. doi: 10.1186/s12877-022-03315-w.

**Reducing Screen-Based Sedentary Behavior Among Overweight and Obese Hispanic Adolescents Through a Family-Based Intervention.** Perrino T, Brincks AM, Estrada Y, Messiah SE, Prado G. *J Phys Act Health*. 2022 Jul 7;19(7):509-517. doi: 10.1123/jpah.2022-0050

**Patient activation for self-management among adult patients with multimorbidity in primary healthcare settings.** Paukkonen L, Oikarinen A, Kähkönen O, Kaakinen P. *Health Sci Rep*. 2022 Jul 20;5(4):e735. doi: 10.1002/hsr2.735.

**A mixed-methods evaluation of a health-promoting café located in a small health service in rural Victoria, Australia.** Whelan J, Love P, Aitken J, Millar L, Morley C, Melgren N, Allender S, Bell C. *Aust J Rural Health*. 2022 Jul 27. doi: 10.1111/ajr.12901.

**Frequency of Sweet and Salty Snack Food Consumption Is Associated with Higher Intakes of Overconsumed Nutrients and Weight-For-Length z Scores During Infancy and Toddlerhood.** Moore AM, Fisher JO, Morris KS, Croce CM, Paluch RA, Kong KL. *J Acad Nutr Diet*. 2022 Aug;122(8):1534-1542. doi: 10.1016/j.jand.2022.02.013.

**Comparison of Sleeve Gastrectomy vs Intensive Lifestyle Modification in Patients With a BMI of 30 to Less Than 35.** Stenberg E, Bruze G, Sundström J, Marcus C, Näslund I, Ottosson J, Neovius M. *JAMA Netw Open*. 2022 Jul 1;5(7):e2223927. doi: 10.1001/jamanetworkopen.2022.23927.

**Childhood obesity risk factors by race and ethnicity.** Pineros-Leano M, Grafft N, Aguayo L. *Obesity (Silver Spring)*. 2022 Aug;30(8):1670-1680. doi: 10.1002/oby.23500.

**Associations of individual factors and early childhood education and care (ECEC) centres characteristics with preschoolers' BMI in Germany.** Herr RM, De Bock F, Diehl K, Wiedemann E, Sterdt E, Blume M, Hoffmann S, Herke M, Reuter M, Iashchenko I, Schneider S. *BMC Public Health*. 2022 Jul 26;22(1):1415. doi: 10.1186/s12889-022-13814-5.

**Predictive equations for energy expenditure in adult humans: From resting to free-living conditions.** Fernández-Verdejo R, Galgani JE. *Obesity (Silver Spring)*. 2022 Aug;30(8):1537-1548. doi: 10.1002/oby.23469.

**Limiting Postpartum Weight Retention in Culturally and Linguistically Diverse Women: Secondary Analysis of the HeLP-her Randomized Controlled Trial.** Chen M, Lim S, Harrison CL. *Nutrients*. 2022 Jul 21;14(14):2988. doi: 10.3390/nu14142988.

**Associations between soft-drink consumption and lifestyle patterns in overweight and obese European adults: Feel4 Diabetes Study.** Reppas K, Papamichael MM, Boutsikou T, Cardon G, Iotova V, Stefanova T, Dimova R, Imre R, Radó ASI, Liatis S, Makrilakis K, Moreno L, Wikström K, Manios Y; Feel4 Diabetes Study Group. *Nutrition*. 2022 Jun 6;103-104:111769. doi: 10.1016/j.nut.2022.111769.

**Childhood trauma, posttraumatic stress disorder symptoms, early maladaptive schemas, and schema modes: a comparison of individuals with obesity and normal weight controls.** Spirou D, Raman J, Bishay RH, Ahlenstiel G, Smith E. *BMC Psychiatry*. 2022 Jul 30;22(1):517. doi: 10.1186/s12888-022-04169-7.

**The association between childhood trauma and overweight and obesity in young adults: the mediating role of food addiction.** Offer S, Alexander E, Barbara K, Hemmingsson E, Flint SW, Lawrence BJ. *Eat Weight Disord*. 2022 Jul 30. doi: 10.1007/s40519-022-01454-y.

**The Impact of Digital Screen Time on Dietary Habits and Physical Activity in Children and Adolescents.** Rocka A, Jasielska F, Madras D, Krawiec P, Pac-Kožuchowska E. *Nutrients*. 2022 Jul 21;14(14):2985. doi: 10.3390/nu14142985.

**School Fruit and Vegetables Scheme: Characteristics of Its Implementation in the European Union from 2009/10 to 2016/17.** Comino I, Soares P, Martínez-Milán MA, Caballero P, Davó-Blanes MC. *Nutrients*. 2022 Jul 26;14(15):3069. doi: 10.3390/nu14153069.

**The association between weight loss and long term development in quality-of-life among children living with obesity: a pragmatic descriptive intervention study.** Jørgensen RM, Vestergaard ET, Kremke B, Bahnsen RF, Nielsen BW, Bruun JM. *Ital J Pediatr*. 2022 Jul 30;48(1):135. doi: 10.1186/s13052-022-01326-2.

**A Pilot Group-Based Lifestyle Intervention to Promote Weight Loss Among Mexican Immigrants.** Leng J, Lui F, Narang B, Puebla L, Finik J, Wu M, Tonda J, Gany F. *J Community Health*. 2022 Jul 28. doi: 10.1007/s10900-022-01124-1.

**Pediatric Obesity - Long-term consequences and effect of weight loss.** Marcus C, Danielsson P, Hagman E. *J Intern Med*. 2022 Jul 26. doi: 10.1111/joim.13547.

**Food industry perspectives on potential policies targeting unhealthy food and beverage price promotions in Australian supermarkets.** Grigsby-Duffy L, Cameron AJ, Backholer K, Sacks G. *BMC Public Health*. 2022 Jul 26;22(1):1423. doi: 10.1186/s12889-022-13812-7.

**How Childhood Socioeconomic Status Impacts Adult Food Preference: The Mediating Role of Stress and Trait Appetite.** Swaffield JB, Guo Q. *Behav Sci (Basel)*. 2022 Jun 22;12(7):202. doi: 10.3390/bs12070202.

**Active Consideration of Future Health Can Be Prompted by Simple Health Messages and Improves Nutritional Quality of Food Choices.** Gustafson CR. *Front Nutr*. 2022 Jul 7;9:926643. doi: 10.3389/fnut.2022.926643.

**Integrated collaborative care intervention for depression and obesity in primary care: translation from research to practice.** Ronneberg CR, Lv N, Ajilore OA, Gerber BS, Venditti EM, Snowden MB, Steinman LE, Wittels NE, Barve A, Dosala S, Rosas LG, Kringle EA, Ma J. *Health Educ Res*. 2022 Jul 25:cyac017. doi: 10.1093/her/cyac017.

**Early Pandemic Improvements in Diet Quality Are Associated with Increased Physical Activity and Weight Loss in US Adults.** Gautreaux CE, Smith KS, Dolan L, Marlin MB, Greene MW, Novak JR, Frugé AD. *Int J Environ Res Public Health*. 2022 Jul 7;19(14):8289. doi: 10.3390/ijerph19148289.

**Maternal Pre-Pregnancy Obesity and Gestational Diabetes Mellitus Increase the Risk of Childhood Obesity.** Choi MJ, Yu J, Choi J. *Children (Basel)*. 2022 Jun 21;9(7):928. doi: 10.3390/children9070928

**The Role of Milk on Children's Weight Status: An Epidemiological Study among Preadolescents in Greece.** Kanellopoulou A, Kosti RI, Notara V, Antonogeorgos G, Rojas-Gil AP, Kornilaki EN, Lagiou A, Yannakoulia M, Panagiotakos DB. *Children* (Basel). 2022 Jul 10;9(7):1025. doi: 10.3390/children9071025.

**The Association of Sugar-Sweetened Beverages to Children's Weights Status Is Moderated by Frequency of Adding Sugars and Sleep Hours.** Magriplis E, Kanellopoulou A, Notara V, Antonogeorgos G, Rojas-Gil AP, Kornilaki EN, Lagiou A, Zampelas A, Panagiotakos DB. *Children* (Basel). 2022 Jul 20;9(7):1088. doi: 10.3390/children9071088.

**Users' Perspective on the AI-Based Smartphone PROTEIN App for Personalized Nutrition and Healthy Living: A Modified Technology Acceptance Model (mTAM) Approach.** Dias SB, Oikonomidis Y, Diniz JA, Baptista F, Carnide F, Bensenousi A, Botana JM, Tsatsou D, Stefanidis K, Gymnopoulos L, Dimitropoulos K, Daras P, Argiriou A, Rouskas K, Wilson-Barnes S, Hart K, Merry N, Russell D, Konstantinova J, Lalama E, Pfeiffer A, Kokkinopoulou A, Hassapidou M, Pagkalos I, Patra E, Buys R, Cornelissen V, Batista A, Cobello S, Milli E, Vagnozzi C, Bryant S, Maas S, Bacelar P, Gravina S, Vlaskalin J, Brkic B, Telo G, Mantovani E, Gkotsopoulou O, Iakovakis D, Hadjidimitriou S, Charisis V, Hadjileontiadis LJ. *Front Nutr.* 2022 Jul 1;9:898031. doi: 10.3389/fnut.2022.898031.

**Turning users into 'unofficial brand ambassadors': marketing of unhealthy food and non-alcoholic beverages on TikTok.** Brooks R, Christidis R, Carah N, Kelly B, Martino F, Backholer K. *BMJ Glob Health.* 2022 Jun;7(6):e009112. doi: 10.1136/bmjgh-2022-009112.

**Obesity Bias in the School Setting: A Brief Report.** Baile JI, González-Calderón MJ, Rabito-Alcón MF. *Children* (Basel). 2022 Jul 18;9(7):1067. doi: 10.3390/children9071067.

**The Association between Stress and Children's Weight Status: A School-Based, Epidemiological Study.** Kanellopoulou A, Vassou C, Kornilaki EN, Notara V, Antonogeorgos G, Rojas-Gil AP, Lagiou A, Yannakoulia M, Panagiotakos DB. *Children* (Basel). 2022 Jul 17;9(7):1066. doi: 10.3390/children9071066.

**Associations of Healthy Infant Feeding Practices and Early Childhood Adiposity in the Rise & SHINE Cohort.** Wu AJ, Aris IM, Hivert MF, Fiechtner L, Davison KK, Redline S, Taveras EM. *J Pediatr Gastroenterol Nutr.* 2022 Aug 1;75(2):e15-e19. doi: 10.1097/MPG.0000000000003495.

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#### **International: Research related to COVID-19**

**Rates of Body Mass Index Increase in Children During the COVID-19 Pandemic.** Loza AJ, Child I, Doolittle BR. *Child Obes.* 2022 Jul 29. doi: 10.1089/chi.2022.0047.

**Pandemic Preparedness: Maintaining Adequate Immune Fitness by Attaining a Normal, Healthy Body Weight.** Kiani P, Mulder KEW, Balikji J, Kraneveld AD, Garssen J, Verster JC. *J Clin Med.* 2022 Jul 6;11(14):3933. doi: 10.3390/jcm11143933.

**Effect of COVID-19 Lockdown on Children's Eating Behaviours: A Longitudinal Study.** Umano GR, Rondinelli G, Rivetti G, Klain A, Aiello F, Miraglia Del Giudice M, Decimo F, Papparella A, Miraglia Del Giudice E. *Children* (Basel). 2022 Jul 20;9(7):1078. doi: 10.3390/children9071078.

**Impact of COVID-19 on childhood obesity: Data from a paediatric weight management trial.** Trivedi M, Frisard C, Crawford S, Bram J, Geller AC, Pbert L. *Pediatr Obes.* 2022 Jul 25:e12959. doi: 10.1111/ijpo.12959.

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## Systematic reviews

**Disparities in the Prevalence of Childhood Obesity-Related Comorbidities: A Systematic Review.** Obita G, Alkhatib A. *Front Public Health.* 2022 Jul 6;10:923744. doi: 10.3389/fpubh.2022.923744.

**Prevalence of meeting 24-Hour Movement Guidelines from pre-school to adolescence: A systematic review and meta-analysis including 387,437 participants and 23 countries.** Tapia-Serrano MA, Sevil-Serrano J, Sánchez-Miguel PA, López-Gil JF, Tremblay MS, García-Hermoso A. *J Sport Health Sci.* 2022 Jul;11(4):427-437. doi: 10.1016/j.jshs.2022.01.005.

**Effects of foods, beverages and macronutrients on BMI z-score and body composition in children and adolescents: a systematic review and meta-analysis of randomized controlled trials.** Jakobsen DD, Brader L, Bruun JM. *Eur J Nutr.* 2022 Jul 29. doi: 10.1007/s00394-022-02966-0.

**Effects of Strength Training on Body Fat in Children and Adolescents with Overweight and Obesity: A Systematic Review with Meta-Analysis.** Méndez-Hernández LD, Ramírez-Moreno E, Barrera-Gálvez R, Cabrera-Morales MDC, Reynoso-Vázquez J, Flores-Chávez OR, Morales-Castillejos L, Cruz-Cansino NDS, Jiménez-Sánchez RC, Arias-Rico J. *Children (Basel).* 2022 Jul 1;9(7):995. doi: 10.3390/children9070995.

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