



# 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

[Piloting the objective measurement of eating weight and speed at a population scale: a nested study within the Avon Longitudinal Study of Parents and Children](#). Wade KH, Clifford L, Simpkin AJ, Beynon R, Birch L, Northstone K, Matthews S, Davey Smith G, Hamilton-Shield J, Timpson NJ. Wellcome Open Res. 2021 Jun 16;5:185. doi: 10.12688/wellcomeopenres.16091.3.

[Estimating the influence of body mass index \(BMI\) on mortality using offspring BMI as an instrumental variable](#). Hyppönen E, Carslake D, Berry DJ, Power C, Davey Smith G. Int J Obes (Lond). 2022 Jan;46(1):77-84. doi: 10.1038/s41366-021-00962-8.

[Changes in household food and drink purchases following restrictions on the advertisement of high fat, salt, and sugar products across the Transport for London network: A controlled interrupted time series analysis](#). Yau A, Berger N, Law C, Cornelsen L, Greener R, Adams J, Boyland EJ, Burgoine T, de Vocht F, Egan M, Er V, Lake AA, Lock K, Mytton O, Petticrew M, Thompson C, White M, Cummins S. PLoS Med. 2022 Feb 17;19(2):e1003915. doi: 10.1371/journal.pmed.1003915.

[Use of lifestyle interventions in primary care for individuals with newly diagnosed hypertension, hyperlipidaemia or obesity: a retrospective cohort study](#). Lemp JM, Nuthanapati MP, Bärnighausen TW, Vollmer S, Geldsetzer P, Jani A. J R Soc Med. 2022 Feb 17:1410768221077381. doi: 10.1177/01410768221077381.

[Usability and Engagement Testing of mHealth Apps in Paediatric Obesity: A Narrative Review of Current Literature](#). Arthurs N, Tully L, O'Malley G, Browne S. Int J Environ Res Public Health. 2022 Jan 27;19(3):1453. doi: 10.3390/ijerph19031453.

[A foresight whole systems obesity classification for the English UK biobank cohort](#). Clark S, Lomax N, Birkin M, Morris M. BMC Public Health. 2022 Feb 18;22(1):349. doi: 10.1186/s12889-022-12650-x.

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

Population antibody responses following COVID-19 vaccination in 212,102 individuals. Ward H, Whitaker M, Flower B, Tang SN, Atchison C, Darzi A, Donnelly CA, Cann A, Diggle PJ, Ashby D, Riley S, Barclay WS, Elliott P, Cooke GS. *Nat Commun.* 2022 Feb 16;13(1):907. doi: 10.1038/s41467-022-28527-x.

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## **International**

The future of bariatric surgery research: A worldwide mapping of registered trials. Rives-Lange C, Poghosyan T, Rassy N, Carette C, Phan A, Goeau-Brissonnière M, de Castelbajac F, Merazka A, Czernichow S. *Obes Rev.* 2022 Feb 17:e13433. doi: 10.1111/obr.13433.

"It's more personal if you can have that contact with a person": Qualitative study of health information preferences of parents and caregivers of children with obesity in New Zealand. Wild CEK, Egli V, Rawiri NT, Willing EJ, Hofman PL, Anderson YC. *Health Soc Care Community.* 2022 Feb 16. doi: 10.1111/hsc.13756.

Weight-Based Victimization and Physical Activity Among Adolescents With Overweight or Obesity: A Scoping Review of Quantitative and Qualitative Evidence. Skogen IB, Båtevik FO, Krumsvik RJ, Høydal KL. *Front Sports Act Living.* 2022 Jan 28;4:732737. doi: 10.3389/fspor.2022.732737

Pediatric data from the All of Us research program: demonstration of pediatric obesity over time. Giangreco NP, Lina S, Qian J, Kuoame A, Subbian V, Boerwinkle E, Cicek M, Clark CR, Cohen E, Gebo KA, Loperena-Cortes R, Mayo K, Mockrin S, Ohno-Machado L, Schully SD, Tatonetti NP, Ramirez AH. *JAMIA Open.* 2021 Dec 28;4(4):ooab112. doi: 10.1093/jamiaopen/ooab112.

Body Shape Index and Cardiovascular Risk in Individuals With Obesity. Hacıağaoğlu N, Öner C, Çetin H, Şimşek EE. *Cureus.* 2022 Jan 14;14(1):e21259. doi: 10.7759/cureus.21259

A longitudinal examination of objective neighborhood walkability, body mass index, and waist circumference: the REasons for Geographic And Racial Differences in Stroke study. Lang IM, Antonakos CL, Judd SE, Colabianchi N. *Int J Behav Nutr Phys Act.* 2022 Feb 12;19(1):17. doi: 10.1186/s12966-022-01247-7.

Predictors of Non-Compliance with a National Early Care and Education-Based Obesity Prevention Initiative: Go NAPSACC. Willis EA, Chang X, Smith F, Clarke E, Ward DS. *Am J Health Promot.* 2022 Feb 12:8901171211069550. doi: 10.1177/08901171211069550.

Food Insecurity Influences Weight Trajectory in Children with Obesity. Tester JM, Xiao L, Tinajero-Deck L, Juarez L, Rosas LG. *Child Obes.* 2022 Feb 15. doi: 10.1089/chi.2021.0311.

Risk Behavioral Contexts in Adolescence of Obese Adults. Naab P, Shiyko M, Edwards George JB. *J Adolesc Health.* 2022 Feb 11:S1054-139X(21)00674-1. doi: 10.1016/j.jadohealth.2021.11.028.

Longitudinal evaluation of an mHealth overweight and obesity management tool. Langkjær IOJ, Fonvig CE, Holm LA, Pihl AF, Holm JC. *Mhealth.* 2022 Jan 20;8:2. doi: 10.21037/mhealth-21-8.

Consistency With and Disengagement From Self-monitoring of Weight, Dietary Intake, and Physical Activity in a Technology-Based Weight Loss Program: Exploratory Study. Carpenter CA, Eastman A, Ross KM. *JMIR Form Res.* 2022 Feb 18;6(2):e33603. doi: 10.2196/33603.

Feasibility of Using Facebook to Engage SNAP-Ed Eligible Parents and Provide Education on Eating Well on a Budget. Lawton K, Hess L, McCarthy H, Marini M, McNitt K, Savage JS. *Int J Environ Res Public Health.* 2022 Jan 27;19(3):1457. doi: 10.3390/ijerph19031457.

Living with severe obesity: adults' physical activity preferences, self-efficacy to overcome barriers and motives. Hussien J, Brunet J, Romain AJ, Lemelin L, Baillot A. *Disabil Rehabil.* 2022 Feb;44(4):590-599. doi: 10.1080/09638288.2020.1773944.

Network Analyses Reveal Negative Link Between Changes in Adipose Tissue GDF15 and BMI During Dietary-induced Weight Loss. Imbert A, Vialaneix N, Marquis J, Vion J, Charpagne A, Metairon S, Laurens C, Moro C, Boulet N, Walter O, Lefebvre G, Hager J, Langin D, Saris WHM, Astrup A, Viguerie N, Valsesia A. *J Clin Endocrinol Metab.* 2022 Jan 1;107(1):e130-e142. doi: 10.1210/clinem/dgab621.

Healthy food prescription incentive programme for adults with type 2 diabetes who are experiencing food insecurity: protocol for a randomised controlled trial, modelling and implementation studies. Olstad DL, Beall R, Spackman E, Dunn S, Lipscombe LL, Williams K, Oster R, Scott S, Zimmermann GL, McBrien KA, Steer KJD, Chan CB, Tyminski S, Berkowitz S, Edwards AL, Saunders-Smith T, Tariq S, Popeski N, White L, Williamson T, L'Abbé M, Raine KD, Nejatnamini S, Naser A, Basualdo-Hammond C, Norris C, O'Connell P, Seidel J, Lewanczuk R, Cabaj J, Campbell DJT. *BMJ Open.* 2022 Feb 15;12(2):e050006. doi: 10.1136/bmjopen-2021-050006.

Spillover Effects of a Family-Based Childhood Weight-Management Intervention on Parental Nutrient Biomarkers and Cardiometabolic Risk Factors. Matthan NR, Barger K, Wylie-Rosett J, Xue X, Groisman-Perelstein AE, Diamantis PM, Ginsberg M, Mossavar-Rahmani Y, Lichtenstein AH. *Curr Dev Nutr.* 2021 Dec 23;6(2):nzab152. doi: 10.1093/cdn/nzab152.

The Association of Weight Loss, Weight Status, and Abdominal Obesity with All-Cause Mortality in Older Adults. Alharbi TA, Ryan J, Freak-Poli R, Gasevic D, Scali J, Ritchie K, Ancelin ML, Owen AJ. *Gerontology.* 2022 Feb 17:1-9. doi: 10.1159/000522040.

Monday-focused tailored rapid interactive mobile messaging for weight management 2 (MTRIMM2): results from a randomized controlled trial. Kharmats AY, Wang C, Fuentes L, Hu L, Kline T, Welding K, Cheskin LJ. *Mhealth.* 2022 Jan 20;8:1. doi: 10.21037/mhealth-21-3.

Desire to lose weight was associated with the adoption of weight control strategies but not healthier lifestyle behaviours among post-bariatric surgery patients: NHANES 2013-2018. Yu Y, Ma Q, Groth SW. *Clin Obes.* 2022 Feb 15:e12511. doi: 10.1111/cob.12511.

Becoming-A Journey to Wellness: Engaging HBCU Students in Developing a Theory-Based YouTube Healthy Lifestyle Intervention. Stewart EC, Sims BL, Spicer YN, Paul MJ. *J Health Care Poor Underserved.* 2022;33(1):499-505. doi: 10.1353/hpu.2022.0038.

Usage of Digital Health Tools and Perception of mHealth Intervention for Physical Activity and Sleep in Black Women. Liao Y, Brown KK. *Int J Environ Res Public Health.* 2022 Jan 29;19(3):1557. doi: 10.3390/ijerph19031557.

Health Effects of a 12-Week Web-Based Lifestyle Intervention for Physically Inactive and Overweight or Obese Adults: Study Protocol of Two Randomized Controlled Clinical Trials. Brame J, Kohl J, Wurst R, Fuchs R, Tinsel I, Maiwald P, Fichtner U, Armbruster C, Bischoff M, Farin-Glattacker E, Lindinger P, Bredenkamp R, Gollhofer A, König D. Int J Environ Res Public Health. 2022 Jan 26;19(3):1393. doi: 10.3390/ijerph19031393.

Global Trends in Scientific Research on Pediatric Obesity. Coronado-Ferrer S, Ferrer-Sapena A, Aleixandre-Benavent R, Valderrama Zurián JC, Cogollos LC. Int J Environ Res Public Health. 2022 Jan 23;19(3):1251. doi: 10.3390/ijerph19031251.

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

Correlates of psychological distress among adults with obesity during the COVID-19 pandemic. Borgatti AC, Crockett KB, Jacob AE, Davis AL, Dutton GR. Psychol Health. 2022 Feb 12:1-18. doi: 10.1080/08870446.2022.2038790.

A cross-sectional study examining self-reported anthropometric measurements with adolescents' nutrition attitudes, obesity awareness and diet quality indices during the pandemic. Sümen A, Evgin D. J Pediatr Nurs. 2022 Feb 15:S0882-5963(22)00029-X. doi: 10.1016/j.pedn.2022.01.018.

Changes in body mass index in children and adolescents in Israel during the COVID-19 pandemic. Shalitin S, Phillip M, Yackobovitch-Gavan M. Int J Obes (Lond). 2022 Feb 16:1-8. doi: 10.1038/s41366-022-01092-5.

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## **Systematic reviews**

Digital Health Interventions for Weight Management in Children and Adolescents: Systematic Review and Meta-analysis. Kouvari M, Karipidou M, Tsiampalis T, Mamalaki E, Poulimeneas D, Bathrellou E, Panagiotakos D, Yannakoulia M. J Med Internet Res. 2022 Feb 14;24(2):e30675. doi: 10.2196/30675.

Which children and young people are at higher risk of severe disease and death after hospitalisation with SARS-CoV-2 infection in children and young people: A systematic review and individual patient meta-analysis. Harwood R, Yan H, Talawila Da Camara N, Smith C, Ward J, Tudur-Smith C, Linney M, Clark M, Whittaker E, Saatci D, Davis PJ, Luyt K, Draper ES, Kenny SE, Fraser LK, Viner RM. EClinicalMedicine. 2022 Feb;44:101287. doi: 10.1016/j.eclinm.2022.101287.

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### **Systematic reviews: Research related to COVID-19**

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