



# 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 - 4
- International - 33
- Systematic reviews - 5

## UK and Ireland

**Increased Lean Body Mass After Bodyweight-Based High Intensity Interval Training in Overweight and Obese Men.** Timmons JF, Beatty A, Stout C, Ivory A, Carroll C, Egan B. Res Q Exerc Sport. 2022 Apr 1:1-9. doi: 10.1080/02701367.2021.2002247.

**Prepregnancy BMI, gestational weight gain and offspring caries experience: Avon longitudinal study of parents and children.** Akinkugbe AA, Brickhouse TH, Bandyopadhyay D, Nascimento MM, Slade GD. PLoS One. 2022 Mar 31;17(3):e0266247. doi: 10.1371/journal.pone.0266247.

**Dietary patterns, genetic risk, and incidence of obesity: Application of reduced rank regression in 11,735 adults from the UK Biobank study.** Livingstone KM, Brayner B, Celis-Morales C, Ward J, Mathers JC, Bowe SJ. Prev Med. 2022 Mar 26;158:107035. doi: 10.1016/j.ypmed.2022.107035.

**Development and Validation of Physical Activity-Specific Rumination Scale for Children Through UK Children's Voice.** Ling FCM, Simmons J, Horton M. Res Q Exerc Sport. 2022 Mar 28:1-11. doi: 10.1080/02701367.2021.1971150.

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

## International

**Obesogenic eating behaviour and dietary intake in German children and adolescents: results from the GINIplus and LISA birth cohort studies.** Marb A, Libuda L, Standl M, Koletzko S, Bauer CP, Schikowski T, Berdel D, von Berg A, Herberth G, Bühlmeier J, Harris CP. Eur J Clin Nutr. 2022 Apr 1. doi: 10.1038/s41430-022-01125-2.

**Sweet and Sour: A Responsive Strategy to Strengthen Sugar-Sweetened Beverage Regulation in Australia.** Finch A. J Law Med. 2022 Mar;29(1):231-244.

**The association between patient attendance to a perioperative group-based lifestyle program and weight loss after bariatric surgery.** Nijland LMG, Reiber BMM, Monpellier VM, Jacobs A, Hazebroek EJ, van Veen RN, Demirkiran A, de Castro SMM. *Surg Obes Relat Dis.* 2022 Feb 18:S1550-7289(22)00081-8. doi: 10.1016/j.soard.2022.02.011.

**Tax awareness and perceived cost of sugar-sweetened beverages in four countries between 2017 and 2019: findings from the international food policy study.** Acton RB, Vanderlee L, Adams J, Kirkpatrick SI, Pedraza LS, Sacks G, White CM, White M, Hammond D. *Int J Behav Nutr Phys Act.* 2022 Mar 31;19(1):38. doi: 10.1186/s12966-022-01277-1.

**Health-related behaviours and weight status of expectant fathers.** Pettigrew S, Jongenelis MI, Cronin S, Dana LM, Silva D, Prescott SL, Yeap BB. *Aust N Z J Public Health.* 2022 Mar 31. doi: 10.1111/1753-6405.13216.

**Birthweight z-score and fat-free mass at birth predict body composition at 3 years in Danish children born from obese mothers.** Berglund NR, Lewis JI, Michaelsen KF, Mølgaard C, Renault KM, Carlsen EM. *Acta Paediatr.* 2022 Mar 31. doi: 10.1111/apa.16346.

**Examining the Effects of Fathers' Residency Status on Childhood Obesity.** Simon CL, Gordon DM, Shiyo MP, Viswanath K, Kawachi I. *Matern Child Health J.* 2022 Mar 31. doi: 10.1007/s10995-022-03414-5.

**Describing South Carolina Public School Administrators' Perceptions and Experiences Related to School-Based Interventions and Strategies to Promote Healthy Physical Activity and Eating Behaviors: A Qualitative Study.** Camp-Spivey LJ, Newman SD, Stevens RN, Nichols M. *J Sch Health.* 2022 Mar 30. doi: 10.1111/josh.13164.

**Why some do but too many don't? Barriers and enablers to physical activity in regional Tasmania - an exploratory, mixed-methods study.** Jayasinghe S, Soward R, Holloway TP, Patterson KAE, Ahuja KDK, Hughes R, Byrne NM, Hills AP. *BMC Public Health.* 2022 Mar 31;22(1):627. doi: 10.1186/s12889-022-13001-6.

**Health-related lifestyles among Italian university students: A cross-sectional study.** Bravini E, Azzolina D, Janin D, Vercelli S, Panella M, Rinaldi C. *Epidemiol Prev.* 2022 Jan-Apr;46(1-2):68-76. doi: 10.19191/EP22.1-2.P068.014.

**Level of physical activity of students in Poland, Portugal and Belarus.** Król M, Latosiewicz R, Marques Brás RM, Barkow W, Zuzda JG. *Ann Agric Environ Med.* 2022 Mar 21;29(1):126-135. doi: 10.26444/aaem/142295.

**Examining the association between work stress, life stress and obesity among working adult population in Canada: findings from a nationally representative data.** Geda NR, Feng CX, Yu Y. *Arch Public Health.* 2022 Mar 29;80(1):97. doi: 10.1186/s13690-022-00865-8.

**A randomised controlled trial of an implementation strategy delivered at scale to increase outdoor free play opportunities in early childhood education and care (ECEC) services: a study protocol for the get outside get active (GOGA) trial.** Yoong SL, Pearson N, Reilly K, Wolfenden L, Jones J, Nathan N, Okely A, Naylor PJ, Jackson J, Giles L, Imad N, Gillham K, Wiggers J, Reeves P, Highfield K, Lum M, Grady A. *BMC Public Health.* 2022 Mar 29;22(1):610. doi: 10.1186/s12889-022-12883-w.

**"GENYAL" Study to Childhood Obesity Prevention: Methodology and Preliminary Results.** Marcos-Pasero H, Aguilar-Aguilar E, de la Iglesia R, Espinosa-Salinas I, Molina S, Colmenarejo G, Martínez JA, Ramírez de Molina A, Reglero G, Loria-Kohen V. *Front Nutr.* 2022 Mar 8;9:777384. doi: 10.3389/fnut.2022.777384.

**Multimedia Data-Based Mobile Applications for Dietary Assessment.** Vasiloglou MF, Marcano I, Lizama S, Papathanail I, Spanakis EK, Mougiaakakou S. *J Diabetes Sci Technol.* 2022 Mar 29;19:19322968221085026. doi: 10.1177/19322968221085026.

**Psychological Predictors of Weight Loss Based on Participants' Predispositions: Obesity Treatment Implications.** Annesi JJ. *Perm J.* 2021 Dec 9;25:21.076. doi: 10.7812/TPP/21.076.

**Attitudes and Knowledge Regarding Health-Promoting Behavior in Families Facing Food Insecurity.** Nederveld A, Phimphasone-Brady P, Marshall B, Bayliss E. *Perm J.* 2021 Oct 25;25:21.011. doi: 10.7812/TPP/21.011.

**Changes in food reward and intuitive eating after weight loss and maintenance in former athletes with overweight or obesity.** Nunes CL, Carraça EV, Jesus F, Finlayson G, Francisco R, Silva MN, Santos I, Bosy-Westphal A, Martins P, Minderico C, Sardinha LB, Silva AM. *Obesity (Silver Spring).* 2022 Mar 28. doi: 10.1002/oby.23407.

**Long-term impact of the metabolic status on weight loss-induced health benefits.** Soll D, Gawron J, Pletsch-Borba L, Spranger J, Mai K. *Nutr Metab (Lond).* 2022 Mar 28;19(1):25. doi: 10.1186/s12986-022-00660-w.

**The ENCOMPASS framework: a practical guide for the evaluation of public health programmes in complex adaptive systems.** Luna Pinzon A, Stronks K, Dijkstra C, Renders C, Altenburg T, den Hertog K, Kremers SPJ, Chinapaw MJM, Verhoeff AP, Waterlander W. *Int J Behav Nutr Phys Act.* 2022 Mar 28;19(1):33. doi: 10.1186/s12966-022-01267-3.

**Validation of desk-based audits using Google Street View® to monitor the obesogenic potential of neighbourhoods in a pediatric sample: a pilot study in the QUALITY cohort.** Roberge JB, Contreras G, Kakinami L, Van Hulst A, Henderson M, Barnett TA. *Int J Health Geogr.* 2022 Mar 26;21(1):2. doi: 10.1186/s12942-022-00301-8.

**A Digital Health Program Targeting Physical Activity Among Adolescents With Overweight or Obesity: Open Trial.** Cummings C, Crochiere R, Lansing AH, Patel R, Stanger C. *JMIR Pediatr Parent.* 2022 Mar 28;5(1):e32420. doi: 10.2196/32420.

**Association of clinically significant weight loss with number of patient visits and months of attendance at an Australian multidisciplinary weight management clinic.** Chen J, Kaur H, Jaques J, Rock Z, Dean CM, Lord RV, Preda V. *Clin Obes.* 2022 Mar 27:e12520. doi: 10.1111/cob.12520.

**A School Wellness Partnership to Address Childhood Obesity.** Bejster M, Cygan H, Stock J, Ashworth J. *Prog Community Health Partnersh.* 2022;16(1):85-91. doi: 10.1353/cpr.2022.0008.

**Development of a Community Coalition to Influence Nutrition and Physical Activity in Early Childhood Education.** Slining MM, Fair M, Penkert LP, Wills S, Smyers J, Korn AR, Rusnak S, Knobel S. *Prog Community Health Partnersh.* 2022;16(1):37-44. doi: 10.1353/cpr.2022.0004.

**Eating out of Home: Influence on Nutrition, Health, and Policies: A Scoping Review.** Gesteiro E, García-Carro A, Aparicio-Ugarriza R, González-Gross M. *Nutrients.* 2022 Mar 16;14(6):1265. doi: 10.3390/nu14061265.

**Sugar-sweetened beverage tax implementation processes: results of a scoping review.**  
Forberger S, Reisch L, Meshkovska B, Lobczowska K, Scheller DA, Wendt J, Christianson L, Frense J, Steinacker JM, Luszczynska A, Zeeb H; PEN Consortium. *Health Res Policy Syst.* 2022 Mar 24;20(1):33. doi: 10.1186/s12961-022-00832-3.

**How are health, nutrition, and physical activity discussed in international guidelines and standards for children in care? A narrative review.** Green R, Bergmeier H, Chung A, Skouteris H. *Nutr Rev.* 2022 Mar 10;80(4):919-930. doi: 10.1093/nutrit/nuab056.

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

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

**Factors associated with weight gain during the COVID-19 pandemic.** Goitia J, Chen A, Patel S, Herald J, Lee MS. *Obes Res Clin Pract.* 2022 Mar 22:S1871-403X(22)00022-9. doi: 10.1016/j.orcp.2022.03.002.

**Weight Loss Outcomes With Telemedicine During COVID-19.** Tchang BG, Morrison C, Kim JT, Ahmed F, Chan KM, Alonso LC, Aronne LJ, Shukla AP. *Front Endocrinol (Lausanne).* 2022 Mar 10;13:793290. doi: 10.3389/fendo.2022.793290.

**Sedentary Time and Fast-Food Consumption Associated With Weight Gain During COVID-19 Lockdown in Children and Adolescents With Overweight or Obesity.** Woo S, Yang H, Kim Y, Lim H, Song HJ, Park KH. *J Korean Med Sci.* 2022 Mar 28;37(12):e103. doi: 10.3346/jkms.2022.37.e103.

**Self-perception of health and physical activity among adults before and amidst the COVID-19 pandemic: United States, 2019-2020.** AlDukhail S, Bahdila D. *Prev Med.* 2022 Mar 25:107037. doi: 10.1016/j.ypmed.2022.107037.

**The role of body mass index, healthy eating-related apps and educational activities on eating motives and behaviours among women during the COVID-19 pandemic: A cross sectional study.** Modrzejewska J, Modrzejewska A, Czepczor-Bernat K, Matusik P. *PLoS One.* 2022 Mar 28;17(3):e0266016. doi: 10.1371/journal.pone.0266016.

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

## **Systematic reviews**

**Unhealthy Food and Beverage Consumption in Children and Risk of Overweight and Obesity: A Systematic Review and Meta-analysis.** Rousham EK, Goudet S, Markey O, Griffiths P, Boxer B, Carroll C, Petherick ES, Pradeilles R. *Adv Nutr.* 2022 Apr 1:nmac032. doi: 10.1093/advances/nmac032.

**Prevalence and correlates of obesity among the oldest old. A systematic review, meta-analysis and meta-regression.** Hajek A, Kretzler B, König HH. *Geriatr Gerontol Int.* 2022 Mar 31. doi: 10.1111/ggi.14382.

**Effectiveness of Motivational Interviewing in Managing Overweight and Obesity : A Systematic Review and Meta-analysis.** Michalopoulou M, Ferrey AE, Harmer G, Goddard L, Kebbe M, Theodoulou A, Jebb SA, Aveyard P. *Ann Intern Med.* 2022 Mar 29. doi: 10.7326/M21-3128.

**Effectiveness of Mobile Apps in Promoting Healthy Behavior Changes and Preventing Obesity in Children: Systematic Review.** Yau KW, Tang TS, Görges M, Pinkney S, Kim AD, Kalia A, Amed S. JMIR Pediatr Parent. 2022 Mar 28;5(1):e34967. doi: 10.2196/34967.

[back to top]

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

**The Impact of the COVID-19 Pandemic on Rural Food Security in High Income Countries: A Systematic Literature Review.** Kent K, Alston L, Murray S, Honeychurch B, Visentin D. Int J Environ Res Public Health. 2022 Mar 9;19(6):3235. doi: 10.3390/ijerph19063235.

[back to top]