



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 - 8](#)
- [International - 34](#)
- [Systematic reviews - 2](#)

UK and Ireland

[Inequalities in body mass index, diet and physical activity in the UK: Longitudinal evidence across childhood and adolescence.](#) Libuy N, Bann D, Fitzsimons E. *SSM Popul Health*. 2021 Nov 25;16:100978. doi: 10.1016/j.ssmph.2021.100978.

[Trends in maternal body mass index in Northern Ireland: a cross-sectional and longitudinal study.](#) Kent L, Cardwell C, Young I, Eastwood KA. *Fam Med Community Health*. 2021 Dec;9(4):e001310. doi: 10.1136/fmch-2021-001310.

[The Home Environment Interview and associations with energy balance behaviours and body weight in school-aged children - a feasibility, reliability, and validity study.](#) Kininmonth AR, Schrepft S, Smith A, Dye L, Lawton C, Fisher A, Llewellyn C, Fildes A. *Int J Behav Nutr Phys Act*. 2021 Dec 23;18(1):167. doi: 10.1186/s12966-021-01235-3.

[Obesity and Diet Predict Attitudes towards Health Promotion in Pre-Registered Nurses and Midwives.](#) Blake H, Watkins K, Middleton M, Stanulewicz N. *Int J Environ Res Public Health*. 2021 Dec 20;18(24):13419. doi: 10.3390/ijerph182413419.

[Preventing Childhood Obesity in Primary Schools: A Realist Review from UK Perspective.](#) Ijaz S, Nobles J, Johnson L, Moore T, Savović J, Jago R. *Int J Environ Res Public Health*. 2021 Dec 20;18(24):13395. doi: 10.3390/ijerph182413395.

[Failure to Launch: Predictors of Unfavourable Physical Activity and Sedentary Behaviour Trajectories from Childhood to Adolescence: The Gateshead Millennium Study.](#) Farooq A, Basterfield L, Adamson AJ, Pearce MS, Hughes AR, Janssen X, Wilson MG, Reilly JJ. *Int J Environ Res Public Health*. 2021 Dec 16;18(24):13283. doi: 10.3390/ijerph182413283.

[The Association between Fast Food Outlets and Overweight in Adolescents Is Confounded by Neighbourhood Deprivation: A Longitudinal Analysis of the Millennium Cohort Study.](#) Green MA, Hobbs M, Ding D, Widener M, Murray J, Reece L, Singleton A. *Int J Environ Res Public Health*. 2021 Dec 15;18(24):13212. doi: 10.3390/ijerph182413212.

'They Are Kids, Let Them Eat': A Qualitative Investigation into the Parental Beliefs and Practices of Providing a Healthy Diet for Young Children among a Culturally Diverse and Deprived Population in the UK. Cook EJ, Powell FC, Ali N, Penn-Jones CP, Ochieng B, Constantinou G, Randhawa G. *Int J Environ Res Public Health*. 2021 Dec 11;18(24):13087. doi: 10.3390/ijerph182413087.

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

International

A randomized controlled trial comparing prevention and promotion cognitive strategies in a behavioral weight-loss intervention. Demos McDermott KE, Leblond TL, Dunsiger SI, Rothman AJ, Wing RR. *Obesity (Silver Spring)*. 2021 Dec 23. doi: 10.1002/oby.23337.

Computational approaches to predicting treatment response to obesity using neuroimaging. Kozarzewski L, Maurer L, Mähler A, Spranger J, Weygandt M. *Rev Endocr Metab Disord*. 2021 Dec 23. doi: 10.1007/s11154-021-09701-w.

Socioeconomic Vulnerability Index and Obesity among Korean Adults. Park E, Ko Y. *Int J Environ Res Public Health*. 2021 Dec 19;18(24):13370. doi: 10.3390/ijerph182413370.

Body Positivity and Self-Compassion on a Publicly Available Behavior Change Weight Management Program. McCallum M, Ho AS, May CN, Behr H, Mitchell ES, Michealides A. *Int J Environ Res Public Health*. 2021 Dec 18;18(24):13358. doi: 10.3390/ijerph182413358.

Quantifying the Food and Physical Activity Environments in Rural, High Obesity Communities. McCormack LA, Meendering JR, Burdette L, Prosch N, Moore L, Stluka S. *Int J Environ Res Public Health*. 2021 Dec 18;18(24):13344. doi: 10.3390/ijerph182413344.

School Bag-Related Factors and Their Implications for Walking and Cycling to School among New Zealand Adolescents. Mandic S, Kentala K, Situmorang ML, Rahman ML, King K, García Bengoechea E, Fox AM, Oliveira R, Coppell KJ. *Int J Environ Res Public Health*. 2021 Dec 13;18(24):13125. doi: 10.3390/ijerph182413125.

Men's Perceptions of a Gender-Tailored eHealth Program Targeting Physical and Mental Health: Qualitative Findings from the SHED-IT Recharge Trial. Drew RJ, Morgan PJ, Kay-Lambkin F, Collins CE, Callister R, Kelly BJ, Hansen V, Young MD. *Int J Environ Res Public Health*. 2021 Dec 7;18(24):12878. doi: 10.3390/ijerph182412878.

Factors Influencing Men's Experiences and Engagement with the Rugby Fans in Training-New Zealand Pilot Trial: A Healthy Lifestyle Intervention for Men. Hargreaves EA, Marsh S, Maddison R. *Healthcare (Basel)*. 2021 Dec 16;9(12):1737. doi: 10.3390/healthcare9121737.

Dietary Patterns among Adolescents Are Associated with Growth, Socioeconomic Features, and Health-Related Behaviors. Sinai T, Axelrod R, Shimony T, Boaz M, Kaufman-Shriqui V. *Foods*. 2021 Dec 8;10(12):3054. doi: 10.3390/foods10123054.

Effects on Consumers' Subjective Understanding and Liking of Front-of-Pack Nutrition Labels: A Study on Slovenian and Dutch Consumers. Baccelloni A, Giambarresi A, Mazzù MF. *Foods*. 2021 Dec 1;10(12):2958. doi: 10.3390/foods10122958.

There Is an Inverse Correlation between Basic Motor Skills and Overweight in Schoolchildren Aged 8 to 12. Vega-Ramirez L, Pérez-Cañaveras RM, De Juan Herrero J. *Children (Basel)*. 2021 Dec 18;8(12):1198. doi: 10.3390/children8121198.

Physiological Responses to Low-Volume Interval Training in Women. Skelly LE, Bailleul C, Gillen JB. *Sports Med Open*. 2021 Dec 23;7(1):99. doi: 10.1186/s40798-021-00390-y.

Findings from the Hispanic Community Health Study/Study of Latinos on the Importance of Sociocultural Environmental Interactors: Polygenic Risk Score-by-Immigration and Dietary Interactions. McArdle CE, Bokhari H, Rodell CC, Buchanan V, Preudhomme LK, Isasi CR, Graff M, North K, Gallo LC, Pirezada A, Daviglius ML, Wojcik G, Cai J, Perreira K, Fernandez-Rhodes L. *Front Genet*. 2021 Dec 6;12:720750. doi: 10.3389/fgene.2021.720750.

Prevalence of thinness, overweight, obesity and central obesity in Finnish school-aged children: a comparison of national and international reference values. Sarkkola C, Viljakainen J, de Oliveira Figueiredo RA, Saari A, Lommi S, Engberg E, Viljakainen H. *Obes Facts*. 2021 Dec 22. doi: 10.1159/000521170.

Household Food Security and Associated Factors among Portuguese Children. Silva MG, Machado-Rodrigues AM, Rodrigues D, Nogueira H, Rosado-Marques V, Gama A, Padez C. *Ecol Food Nutr*. 2021 Dec 22;1-15. doi: 10.1080/03670244.2021.2018311.

Randomized controlled trial of financial incentives during weight-loss induction and maintenance in online group weight control. West DS, Krukowski RA, Monroe CM, Stansbury ML, Carpenter CA, Finkelstein EA, Naud S, Ogden D, Harvey JR. *Obesity (Silver Spring)*. 2022 Jan;30(1):106-116. doi: 10.1002/oby.23322.

INSIGHT responsive parenting educational intervention for firstborns is associated with growth of second-born siblings. Savage JS, Hochgraf AK, Loken E, Marini ME, Craig SJC, Makova KD, Birch LL, Paul IM. *Obesity (Silver Spring)*. 2022 Jan;30(1):183-190. doi: 10.1002/oby.23301.

Intervening on exercise and daylong movement for weight loss maintenance in older adults: A randomized, clinical trial. Fanning J, Rejeski WJ, Leng I, Barnett C, Lovato JF, Lyles MF, Nicklas BJ. *Obesity (Silver Spring)*. 2022 Jan;30(1):85-95. doi: 10.1002/oby.23318.

Interrelationships among age at adiposity rebound, BMI during childhood, and BMI after age 14 years in an electronic health record database. Freedman DS, Goodwin-Davies AJ, Kompaniyets L, Lange SJ, Goodman AB, Phan TT, Rao S, Eneli I, Forrest CB. *Obesity (Silver Spring)*. 2022 Jan;30(1):201-208. doi: 10.1002/oby.23315.

The European Food Regulatory Environment Index: a tool to monitor progress in implementing food environment policies. Madureira Lima J, Rayner M, Breda J, Jewell J. *Eur J Public Health*. 2021 Dec 21;ckab106. doi: 10.1093/eurpub/ckab106.

Using Black Feminist Theory and Methods to Uncover Best Practices in Health Promotion Programming. Wade J, Alexander R, Giscombé CW, Keegan D, Parker S, Jackson K, Gibbs J, McElroy A, Ferguson JV. *Qual Health Res*. 2021 Dec 21:10497323211061108. doi: 10.1177/10497323211061108.

Use of person-centred language among scientific research focused on childhood obesity. Fisch C, Whelan J, Evans S, Whitaker LA, Gajjar S, Ali L, Fugate C, Puhl R, Hartwell M. *Pediatr Obes*. 2021 Dec 20:e12879. doi: 10.1111/ijpo.12879.

A Wearable Activity Tracker Intervention With and Without Weekly Behavioral Support Emails to Promote Physical Activity Among Women Who Are Overweight or Obese: Randomized Controlled Trial. Black M, Brunet J. *JMIR Mhealth Uhealth*. 2021 Dec 16;9(12):e28128. doi: 10.2196/28128.

Childhood obesity within the lens of racism. Browne NT, Hodges EA, Small L, Snethen JA, Frenn M, Irving SY, Gance-Cleveland B, Greenberg CS. *Pediatr Obes.* 2021 Dec 19:e12878. doi: 10.1111/ijpo.12878.

Weight-based stereotype threat in the workplace: consequences for employees with overweight or obesity. Zacher H, von Hippel C. *Int J Obes (Lond).* 2021 Dec 20. doi: 10.1038/s41366-021-01052-5.

Factors Related to the Weight Control Practices of Korean Adults. Lee HY, Hong BK. *J Obes Metab Syndr.* 2021 Dec 20. doi: 10.7570/jomes21041.

A cost-benefit analysis framework for preventive health interventions to aid decision-making in Australian governments. Ananthapavan J, Moodie M, Milat A, Veerman L, Whittaker E, Carter R. *Health Res Policy Syst.* 2021 Dec 19;19(1):147. doi: 10.1186/s12961-021-00796-w.

Effect of a 1-year controlled lifestyle intervention on body weight and other risk markers (the Healthy Lifestyle Community Programme, cohort 2). Koeder C, Kranz RM, Anand C, Husain S, Alzughayyar D, Schoch N, Hahn A, Englert H. *Obes Facts.* 2021 Dec 17. doi: 10.1159/000521164.

Implementation of Minimum Nutrition Standards and Best Practices in Childcare Centers. Andreyeva T, Sun X, Cannon M, Kenney EL. *J Acad Nutr Diet.* 2021 Dec;121(12):2454-2463. doi: 10.1016/j.jand.2021.05.019.

Eating in the absence of hunger in 18-month-old children in a home setting. Schultink JM, de Vries JHM, de Wild VWT, van Vliet MS, van der Veek SMC, Martens VEG, de Graaf C, Jager G. *Pediatr Obes.* 2021 Nov;16(11):e12800. doi: 10.1111/ijpo.12800.

Misperceptions about added sugar, non-nutritive sweeteners and juice in popular children's drinks: Experimental and cross-sectional study with U.S. parents of young children (1-5 years). Harris JL, Pomeranz JL. *Pediatr Obes.* 2021 Oct;16(10):e12791. doi: 10.1111/ijpo.12791.

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

International: Research related to COVID-19

Do COVID-19-Related Stress, Being Overweight, and Body Dissatisfaction Contribute to More Disordered Eating in Polish Women?-A Cluster Analysis Approach. Czepczor-Bernat K, Modrzejewska J, Modrzejewska A, Matusik P. *Int J Environ Res Public Health.* 2021 Dec 12;18(24):13100. doi: 10.3390/ijerph182413100.

Physical Activity and Screen Time among Hungarian High School Students during the COVID-19 Pandemic Caused Distance Education Period. Katona ZB, Takács J, Kerner L, Alföldi Z, Soós I, Gyömörei T, Podstawski R, Ihász F. *Int J Environ Res Public Health.* 2021 Dec 10;18(24):13024. doi: 10.3390/ijerph182413024.

Designing an adolescent physical activity and nutrition intervention before and after COVID-19: A formative research study. Grimes A, Lightner JS, Pina K, Donis de Miranda ES, Meissen-Sebelius E, Shook RP, Hurley E. *JMIR Form Res.* 2021 Dec 13. doi: 10.2196/33322.

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

Systematic reviews

Nature and Children's Health: A Systematic Review. Fyfe-Johnson AL, Hazlehurst MF, Perrins SP, Bratman GN, Thomas R, Garrett KA, Hafferty KR, Cullaz TM, Marcuse EK, Tandon PS. *Pediatrics*. 2021 Oct;148(4):e2020049155. doi: 10.1542/peds.2020-049155.

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

Systematic reviews: Research related to COVID-19

The Impact of Nutritional and Lifestyle Changes on Body Weight, Body Composition and Cardiometabolic Risk Factors in Children and Adolescents during the Pandemic of COVID-19: A Systematic Review. Karatzi K, Poulia KA, Papakonstantinou E, Zampelas A. *Children (Basel)*. 2021 Dec 4;8(12):1130. doi: 10.3390/children8121130.

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