



# 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

[MIMIR: Deep Regression for Automated Analysis of UK Biobank MRI Scans](#). Langner T, Martínez Mora A, Strand R, Ahlström H, Kullberg J. *Radiol Artif Intell*. 2022 Apr 6;4(3):e210178. doi: 10.1148/ryai.210178.

[Does weight management research for adults with severe obesity represent them? Analysis of systematic review data](#). Robertson C, Aceves-Martins M, Cruickshank M, Imamura M, Avenell A. *BMJ Open*. 2022 May 31;12(5):e054459. doi: 10.1136/bmjopen-2021-054459.

[Differences in Energy and Nutrient Content of Menu Items Served by Large Chain Restaurants in the US and the UK](#). Huang Y, Burgoine T, Theis D, Adams J. *Public Health Nutr*. 2022 Jun 1:1-24. doi: 10.1017/S1368980022001379.

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## International

[Changes in the association between overweight and depression across three major ethnic groups, 2005-2018](#). Mallhi AK, Sullivan K, Zhang J. *J Psychiatr Res*. 2022 May 12;151:564-570. doi: 10.1016/j.jpsychires.2022.05.012.

[The prospective relation between eating behaviors and BMI from middle childhood to adolescence: A 5-wave community study](#). Bjørklund O, Wichstrøm L, Llewellyn C, Steinsbekk S. *Prev Med Rep*. 2022 Apr 19;27:101795. doi: 10.1016/j.pmedr.2022.101795.

[Identification of Lifestyle Risk Factors in Adolescence Influencing Cardiovascular Health in Young Adults: The BELINDA Study](#). Morcel J, Béghin L, Michels N, Vanhelst J, Labreuche J, Drumez E, Polito A, Ferrari M, Censi L, Deplanque D, Miguel-Berges ML, De Ruyter T, De Henauw S, Moreno LA, Gottrand F. *Nutrients*. 2022 May 17;14(10):2089. doi: 10.3390/nu14102089.

Implementation of physical activity on prescription for children with obesity in paediatric health care (IMPA): protocol for a feasibility and evaluation study using quantitative and qualitative methods. Bernhardsson S, Boman C, Lundqvist S, Arvidsson D, Börjesson M, Larsson MEH, Lundh H, Melin K, Nilsen P, Lauruschkus K. *Pilot Feasibility Stud.* 2022 Jun 1;8(1):117. doi: 10.1186/s40814-022-01075-3.

The outcomes of [project name removed for blinding - subsequently documented as XX] Determining the effects of a behavioural and an environmental intervention on water and sugar sweetened beverage consumption in adolescents: A randomised controlled trial. Gowland-Ella J, Batchelor S, David M, Lewis P, Kajons N. *Health Promot J Austr.* 2022 May 30. doi: 10.1002/hpja.623.

Effect of an interactive mobile health support system and daily weight measurements for pediatric obesity treatment, a 1-year pragmatical clinical trial. Hagman E, Johansson L, Kollin C, Marcus E, Drangel A, Marcus L, Marcus C, Danielsson P. *Int J Obes (Lond).* 2022 May 31. doi: 10.1038/s41366-022-01146-8.

Preschoolers BMI: Associations with Patterns of Caregivers' Feeding Practices Using Structural Equation Models. Rahmaty Z, Johantgen ME, Storr CL, Wang Y, Black MM. *Child Obes.* 2022 Jun 1. doi: 10.1089/chi.2022.0026.

Children's Daily Negative Affect Patterns and Food Consumption on Weekends: An Ecological Momentary Assessment Study. Naya CH, Chu D, Wang WL, Nicolo M, Dunton GF, Mason TB. *J Nutr Educ Behav.* 2022 May 26:S1499-4046(22)00046-X. doi: 10.1016/j.jneb.2022.02.007

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 May 30. doi: 10.1038/s41366-022-01148-6.

Parental Perceptions and Concerns Related to the Consequences of Pediatric Obesity: Feeling or Real Problem? Puma A, Pecoraro L, Salvottini C, Carbonare LD, Piacentini G, Pietrobelli A. *Endocr Metab Immune Disord Drug Targets.* 2022 May 30. doi: 10.2174/1871530322666220530121012.

Family-reported barriers and predictors of short-term attendance in a multidisciplinary intervention for managing childhood obesity: A psycho-family-system based randomised controlled trial (ENTREN-F). Rojo M, Lacruz T, Solano S, Gutiérrez A, Beltrán-Garrayo L, Veiga OL, Graell M, Sepúlveda AR. *Eur Eat Disord Rev.* 2022 May 28. doi: 10.1002/erv.2913.

Urban-rural disparities in childhood obesogenic environments in the United States: Application of differing rural definitions. Wende ME, Meyer MRU, Abildso C, Davis K, Kaczynski AT. *J Rural Health.* 2022 May 30. doi: 10.1111/jrh.12677.

Gender, Age, Hunger, and Body Mass Index as Factors Influencing Portion Size Estimation and Ideal Portion Sizes. Duszka K, Hechenberger M, Dolak I, Kobiljak D, König J. *Front Psychol.* 2022 May 11;13:873835. doi: 10.3389/fpsyg.2022.873835.

What Do Health Professionals and Parents Want as Part of an Online Childhood Obesity Prevention Program? Walker JL, Dix C, Hardt J, Farletti R, Littlewood R. *Child Obes.* 2022 Jun 1. doi: 10.1089/chi.2021.0313.

Learning from missing data: examining nonreporting patterns of height, weight, and BMI among Canadian youth. Doggett A, Chaurasia A, Chaput JP, Leatherdale ST. *Int J Obes (Lond)*. 2022 Jun 1. doi: 10.1038/s41366-022-01154-8.

The Role of Physical Activity in Long-term Weight Loss: 36-month Results From a Randomized Controlled Trial. Butryn ML, Crane NT, Lufburrow E, Hagerman CJ, Forman EM, Zhang F. *Ann Behav Med*. 2022 May 29:kaac028. doi: 10.1093/abm/kaac028.

Sequential Mediation of the Relation of Increased Physical Activity and Weight Loss by Mood and Emotional Eating Changes: Community-Based Obesity Treatment Development Guided by Behavioral Theory. Annesi JJ, Eberly AA. *Fam Community Health*. 2022 Jul-Sep 01;45(3):187-194. doi: 10.1097/FCH.0000000000000331.

Nonalcoholic Fatty Liver Disease in Young Children with Obesity. Klepper C, Crimmins NA, Orkin S, Sun Q, Fei L, Xanthakos S, Mouzaki M. *Child Obes*. 2022 May 30. doi: 10.1089/chi.2022.0048.

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

Weight gain in children during the COVID-19 pandemic, and the protective effect of lifestyle intervention in children with obesity. Lubrecht J, Arayess L, Reijnders D, Hesselink ML, Ten Velde G, Janse A, von Rosenstiel I, van Mil EGAH, Verweij M, Vreugdenhil ACE. *Obes Facts*. 2022 May 31. doi: 10.1159/000525298.

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## **Systematic reviews**

Effectiveness of weight management interventions for adults delivered in primary care: systematic review and meta-analysis of randomised controlled trials. Madigan CD, Graham HE, Sturgiss E, Kettle VE, Gokal K, Biddle G, Taylor GMJ, Daley AJ. *BMJ*. 2022 May 30;377:e069719. doi: 10.1136/bmj-2021-069719.

The relationship between nutritional status at the time of stroke on adverse outcomes: a systematic review and meta-analysis of prospective cohort studies. Mehta A, De Paola L, Pana TA, Carter B, Soiza RL, Kafri MW, Potter JF, Mamas MA, Myint PK. *Nutr Rev*. 2022 May 27:nuac034. doi: 10.1093/nutrit/nuac034.

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