



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

Lifetime body mass index and grip strength at age 46 years: the 1970 British Cohort Study.
Cooper R, Tomlinson D, Hamer M, Pinto Pereira SM. J Cachexia Sarcopenia Muscle. 2022 May 19. doi: 10.1002/jcsm.12992.

Parents' awareness and perceptions of the Change4Life 100 cal snack campaign, and perceived impact on snack consumption by children under 11 years. Day RE, Bridge G, Austin K, Ensaff H, Christian MS. BMC Public Health. 2022 May 19;22(1):1012. doi: 10.1186/s12889-022-12789-7.

Does providing everyone with free-of-charge organised exercise opportunities work in public health? Candio P, Meads D, Hill AJ, Bojke L. Health Policy. 2022 Feb;126(2):129-142. doi: 10.1016/j.healthpol.2022.01.001.

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International

Current state of unhealthy living characteristics in White, African American and Latinx populations. Myers J, Harber MP, Johnson L, Arena R, Kaminsky LA. Prog Cardiovasc Dis. 2022 May 16:S0033-0620(22)00045-7. doi: 10.1016/j.pcad.2022.05.002

Family socioeconomic status and childhood adiposity in Europe - A scoping review. Sares-Jäske L, Grönqvist A, Mäki P, Tolonen H, Laatikainen T. Prev Med. 2022 May 17:107095. doi: 10.1016/j.ypmed.2022.107095.

Longitudinal associations between different measures of socioeconomic status and health behavior among adolescents. Data from a wealthy Italian region. Belardinelli P, Torbica A, Fattore G. Prev Med. 2022 May 17:107092. doi: 10.1016/j.ypmed.2022.107092.

Spatial spillovers, living environment and obesity in France: Evidence from a spatial econometric framework. Bonnet C, Détang-Dessendre C, Orozco V, Rouvière E. *Soc Sci Med*. 2022 May 11;305:114999. doi: 10.1016/j.socscimed.2022.114999.

The Effects of Overweight and Obesity on Obstacle Crossing During Walking: Protocol for a Systematic Review. Chardon M, Barbieri FA, Penedo T, Santos PCR, Vuillerme N. *JMIR Res Protoc*. 2022 May 20;11(5):e36234. doi: 10.2196/36234.

Socioeconomic differences in the association between maternal age and maternal obesity: a register-based study of 707,728 women in Finland. Roustaei Z, Räisänen S, Gissler M, Heinonen S. *Scand J Public Health*. 2022 May 20:14034948221088003. doi: 10.1177/14034948221088003.

Temporal trends in the prevalence of metabolically healthy overweight and obesity in Korean youth: Data from the Korea National Health and Nutrition Examination Survey 2011-2019. Kim HY, Kim JH. *Ann Pediatr Endocrinol Metab*. 2022 May 16. doi: 10.6065/apem.2142192.096.

Weight Cycling and Dieting Behavior in Fitness Club Members. Haakstad LAH, Stensrud T, Rugseth G, Gjestvang C. *Front Endocrinol (Lausanne)*. 2022 May 3;13:851887. doi: 10.3389/fendo.2022.851887.

Exploring the weight bias of professionals working in the field of obesity with a mobile IAT: a pilot study. Jungnickel T, von Jan U, Engeli S, Albrecht UV. *Ther Adv Endocrinol Metab*. 2022 May 14;13:20420188221098881. doi: 10.1177/20420188221098881.

Railway noise and diabetes among residents living close to the railways in Västra Götaland, Sweden: Cross-sectional mediation analysis on obesity indicators. Vincens N, Waye KP. *Environ Res*. 2022 May 16:113477. doi: 10.1016/j.envres.2022.113477.

Difference between "Physical Fitness Age" Based on Physical Function and Chronological Age Is Associated with Obesity, Hyperglycemia, Depressive Symptoms, and Low Serum Albumin. Toyoshima K, Seino S, Tamura Y, Ishikawa J, Chiba Y, Ishizaki T, Fujiwara Y, Shinkai S, Kitamura A, Araki A. *J Nutr Health Aging*. 2022;26(5):501-509. doi: 10.1007/s12603-022-1786-8.

Demographic and psychosocial correlates of measurement error and reactivity bias in a four-day image-based mobile food record among adults with overweight and obesity. Whitton C, Healy JD, Dhaliwal SS, Shoneye C, Harray AJ, Mullan BA, McVeigh JA, Boushey CJ, Kerr DA. *Br J Nutr*. 2022 May 19:1-39. doi: 10.1017/S0007114522001532.

Higher Consumption of Fruit and Vegetables Is Associated With Lower Worries, Tension and Lack of Joy Across the Lifespan. Radavelli-Bagatini S, Sim M, Blekkenhorst LC, Bondonno NP, Bondonno CP, Woodman R, Dickson JM, Harms C, Magliano DJ, Shaw JE, Daly RM, Hodgson JM, Lewis JR. *Front Nutr*. 2022 May 2;9:837066. doi: 10.3389/fnut.2022.837066.

Participants' Engagement With Telephone Support Interventions to Promote Healthy Feeding Practices and Obesity-Protective Behaviours for Infant Obesity Prevention. Ekambareswar M, Xu H, Rissel C, Baur L, Taki S, Mihrshahi S, Wen LM. *Front Endocrinol (Lausanne)*. 2022 May 2;13:868944. doi: 10.3389/fendo.2022.868944.

Effect of a Novel Intervention Targeting Appetitive Traits on Body Mass Index Among Adults With Overweight or Obesity: A Randomized Clinical Trial. Boutelle KN, Eichen DM, Peterson CB, Strong DR, Kang-Sim DE, Rock CL, Marcus BH. *JAMA Netw Open*. 2022 May 2;5(5):e2212354. doi: 10.1001/jamanetworkopen.2022.12354.

The path between breakfast eating habit, sleep duration and physical activity on obesity status: An epidemiological study in schoolchildren. Kosti RI, Kanellopoulou A, Morogianni K, Notara V, Antonogeorgos G, Kourtesa T, Rojas-Gil AP, Kornilaki EN, Lagiou A, Panagiotakos DB. Nutr Health. 2022 May 17:2601060221102270. doi: 10.1177/02601060221102270.

Employing Smartphone Health Apps in Weight Management for Adolescents: Analysis on Experiences and Perspectives From Pediatric Providers. Wen X, Nguyen LN, Kowalski-Dobson TM, Mohammed L, Woolford SJ. Clin Pediatr (Phila). 2022 May 17:99228221097277. doi: 10.1177/00099228221097277.

Overnutrition is a significant component of food waste and has a large environmental impact. Franco S, Barbanera M, Moscetti R, Cicatiello C, Secondi L, Massantini R. Sci Rep. 2022 May 17;12(1):8166. doi: 10.1038/s41598-022-11813-5.

Change in Hyper-Palatable Food Availability in the US Food System over 30 Years: 1988 to 2018. Demeke S, Rohde K, Chollet-Hinton L, Sutton C, Kong KL, Fazzino TL. Public Health Nutr. 2022 May 18:1-23. doi: 10.1017/S1368980022001227.

Updating obesity management strategies: an audit of Italian specialists. Busetto L, Carbonelli MG, Caretto A, Colao A, Cricelli C, De Luca M, Giorgino F, Gnessi L, Medea G, Pappagallo G, Santini F, Sbraccia P, Zappa MA. Eat Weight Disord. 2022 May 17. doi: 10.1007/s40519-022-01402-w.

Effect of sleep on weight loss and adherence to diet and physical activity recommendations during an 18-month behavioral weight loss intervention. Creasy SA, Ostendorf DM, Blankenship JM, Grau L, Arbet J, Bessesen DH, Melanson EL, Catenacci VA. Int J Obes (Lond). 2022 May 16. doi: 10.1038/s41366-022-01141-z.

Evaluation of a Circadian Rhythm and Sleep-Focused Mobile Health Intervention for the Prevention of Accelerated Summer Weight Gain Among Elementary School-Age Children: Protocol for a Randomized Controlled Feasibility Study. Moreno JP, Dadabhoy H, Musaad S, Baranowski T, Thompson D, Alfano CA, Crowley SJ. JMIR Res Protoc. 2022 May 16;11(5):e37002. doi: 10.2196/37002.

The prevalence of undernutrition and associated factors in older obese patients. Soysal P, Koc Okudur S, Kilic N, Ipar O, Smith L. Aging Clin Exp Res. 2022 May 16. doi: 10.1007/s40520-022-02143-7.

The impact of body mass index (BMI) on satisfaction with work life: An international BODY-Q study. Jacobsen AL, DeVries CEE, Poulsen L, Mou D, Klassen AF, Pusic AL, Makarawung DJS, Wiezer MJ, van Veen RN, Sørensen JA. Clin Obes. 2022 May 16:e12527. doi: 10.1111/cob.12527.

10-Year Weight Gain in 13,802 US Adults: The Role of Age, Sex, and Race. Tucker LA, Parker K. J Obes. 2022 May 6;2022:7652408. doi: 10.1155/2022/7652408.

Prevention of Unhealthy Weight, Disordered Eating, and Poor Body Image in Children. Perspectives From Norwegian Parents and Healthcare Professionals. Fiskum C, Riiber Å, Eik-Nes TT. Front Psychiatry. 2022 Apr 27;13:895781. doi: 10.3389/fpsyg.2022.895781.

Obesity- attributable costs of absenteeism among working adults in Portugal. Destri K, Alves J, Gregório MJ, Dias SS, Henriques AR, Mendonça N, Canhão H, Rodrigues AM. BMC Public Health. 2022 May 15;22(1):978. doi: 10.1186/s12889-022-13337-z.

Effect of a Six-Month Lifestyle Intervention on the Physical Activity and Fitness Status of Adults with NAFLD and Metabolic Syndrome. Mascaró CM, Bouzas C, Montemayor S, Casares M, Llompart I, Ugarriza L, Borràs PA, Martínez JA, Tur JA. Nutrients. 2022 Apr 26;14(9):1813. doi: 10.3390/nu14091813.

Dietary Approaches and Health Outcomes: An Evidence Analysis Center Scoping Review. Handu D, Piemonte T. J Acad Nutr Diet. 2021 Nov 10:S2212-2672(21)01202-8. doi: 10.1016/j.jand.2021.08.106.

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International: Research related to COVID-19

Obesity and Its Impact on Adverse In-Hospital Outcomes in Hospitalized Patients With COVID-19. Keller K, Sagoschen I, Schmitt VH, Sivanathan V, Espinola-Klein C, Lavie CJ, Münz T, Hobohm L. Front Endocrinol (Lausanne). 2022 May 2;13:876028. doi: 10.3389/fendo.2022.876028.

A 2022 update on the epidemiology of obesity and a call to action: as its twin COVID-19 pandemic appears to be receding, the obesity and dysmetabolism pandemic continues to rage on. Boutari C, Mantzoros CS. Metabolism. 2022 May 15:155217. doi: 10.1016/j.metabol.2022.155217.

Explaining the complex impact of the Covid-19 pandemic on children with overweight and obesity: a comparative ecological analysis of parents' perceptions in three countries. Nowicka P, Ek A, Jurca-Simina IE, Bouzas C, Argelich E, Nordin K, García S, Vasquez Barquero MY, Hoffer U, Reijis Richards H, Tur JA, Chirita-Emandi A, Eli K. BMC Public Health. 2022 May 17;22(1):1000. doi: 10.1186/s12889-022-13351-1.

Successful telehealth transformation of a pediatric outpatient obesity teaching program due to the COVID-19 pandemic - the "Video KiCK" program. Reschke F, Galuschka L, Landsberg S, Weiner C, Guntermann C, Sadeghian E, Lange K, Danne T. J Pediatr Endocrinol Metab. 2022 May 16. doi: 10.1515/jpem-2022-0104.

Development of Keyword Trend Prediction Models for Obesity Before and After the COVID-19 Pandemic Using RNN and LSTM: Analyzing the News Big Data of South Korea. Eom G, Byeon H. Front Public Health. 2022 Apr 29;10:894266. doi: 10.3389/fpubh.2022.894266.

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Systematic reviews

Cultural factors related to childhood and adolescent obesity in Mexico: A systematic review of qualitative studies. Aceves-Martins M, López-Cruz L, García-Botello M, Godina-Flores NL, Gutierrez-Gómez YY, Moreno-García CF. Obes Rev. 2022 May 19:e13461. doi: 10.1111/obr.13461.

How Does the University Food Environment Impact Student Dietary Behaviors? A Systematic Review. Li X, Braakhuis A, Li Z, Roy R. Front Nutr. 2022 Apr 8;9:840818. doi: 10.3389/fnut.2022.840818.

Reward sensitivity, eating behavior, and obesity-related outcomes: A systematic review. Sutton CA, L'Insalata AM, Fazzino TL. Physiol Behav. 2022 May 13;252:113843. doi: 10.1016/j.physbeh.2022.113843.

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