



Public Health England

Welcome to the latest issue of the weekly Obesity Knowledge Update from Public Health England. This bulletin highlights new research relating to obesity and its determinants.

PHE 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 - 37](#)
- [Systematic reviews - 4](#)

UK and Ireland

[Body Fatness Influences Associations of Body Composition and Energy Expenditure with Energy Intake in Healthy Women.](#) Casanova N, Beaulieu K, Oustric P, O'Connor D, Gibbons C, Duarte C, Blundell J, Stubbs RJ, Finlayson G, Hopkins M. *Obesity (Silver Spring)*. 2021 Jan;29(1):125-132. doi: 10.1002/oby.23034

[Predictors of weight discussion in primary care consultations: A multilevel modeling approach.](#) McHale CT, Laidlaw AH, Cecil JE. *Patient Educ Couns*. 2021 Jul 6:S0738-3991(21)00443-2. doi: 10.1016/j.pec.2021.07.008.

[An exploration of the challenges of providing person-centred care for older care home residents with obesity.](#) Parkinson M, Thompson J. *Health Soc Care Community*. 2021 Jul 15. doi: 10.1111/hsc.13519.

[Teachers' perspectives on the barriers to healthy lifestyle behaviors among adolescent girls of disadvantaged backgrounds in Ireland: A qualitative study.](#) McNamara R, Quinn R, Murrin C, Bel-Serrat S. *Appetite*. 2021 Jul 9;167:105585. doi: 10.1016/j.appet.2021.105585.

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

International

[Nurse-led interventions in the prevention and treatment of overweight and obesity in infants, children and adolescents: A scoping review.](#) Cheng H, George C, Dunham M, Whitehead L, Denney-Wilson E. *Int J Nurs Stud*. 2021 Jun 25;121:104008. doi: 10.1016/j.ijnurstu.2021.104008.

[A Meal Replacement Program for the Treatment of Obesity: A Cost-Effectiveness Analysis from the Swiss Payer's Perspective.](#) Nuijten M, Dainelli L, Rasouli B, Araujo Torres K, Perugini M, Marczewska A. *Diabetes Metab Syndr Obes*. 2021 Jul 8;14:3147-3160. doi: 10.2147/DMSO.S284855.

A Spatial Analysis of Obesity: Interaction of Urban Food Environments and Racial Segregation in Chicago. Huang H. *J Urban Health*. 2021 Jul 15. doi: 10.1007/s11524-021-00553-y.

Protocol and short-term results for a feasibility randomized controlled trial of a video intervention for Veterans with obesity: The TOTAL (Teaching Obesity Treatment Options to Adult Learners) pilot study. Funk LM, Breuer CR, Venkatesh M, Muraveva A, Alagoz E, Hanlon BM, Raffa SD, Voils CI. *Contemp Clin Trials Commun*. 2021 Jun 29;23:100816. doi: 10.1016/j.conctc.2021.100816.

Specialized Medical Weight Management Intervention for High-Risk Obesity. Srivastava G, Paris C, Johnson J, Barnes E, Cunningham BL, Stimson CJ, Niswender KD, Poon SJ. *J Health Econ Outcomes Res*. 2021 Jul 1;8(2):1-5. doi: 10.36469/001c.24896.

Clinical impact of obesity on respiratory diseases: A real-life study. Cortes-Telles A, Ortiz-Farias DL, Pou-Aguilar YN, Almeida-de-la-Cruz L, Perez-Padilla JR. *Lung India*. 2021 Jul-Aug;38(4):321-325. doi: 10.4103/lungindia.lungindia_701_20.

Retailer-led healthy pricing interventions: a pilot study within aquatic and recreation centres in Victoria, Australia. Huse O, Orellana L, Ferguson M, Palermo C, Jerebine A, Zorbas C, Boelsen-Robinson T, Blake MR, Peeters A, Brimblecombe J, Moodie M, Backholer K. *Health Promot Int*. 2021 Apr 15;36(2):430-448. doi: 10.1093/heapro/daaa074.

Leisure-time and study-time Internet use and dietary risk factors in Korean adolescents. Byun D, Kim R, Oh H. *Am J Clin Nutr*. 2021 Jul 13:nqab229. doi: 10.1093/ajcn/nqab229.

Obesity and Work-Related Injuries Among Farmers in Kentucky, Tennessee, and West Virginia. Hunsucker S, Reed DB. *Workplace Health Saf*. 2021 Jul 14:21650799211026678. doi: 10.1177/21650799211026678.

Personal Social Networks and Adiposity in Adolescents: A Feasibility Study. Ybarra M, Barnett TA, Yu J, Van Hulst A, Drouin O, Kakinami L, Saint-Charles J, Henderson M. *Child Obes*. 2021 Jul 14. doi: 10.1089/chi.2020.0343.

Opportunities to Address Obesity Disparities Among High-Risk Latino Children and Adolescents. Soltero EG, O'Connor TM, Thompson D, Shaibi GQ. *Curr Obes Rep*. 2021 Jul 14. doi: 10.1007/s13679-021-00445-x.

Cost-effectiveness analysis of a school- and community-based intervention to promote a healthy lifestyle and prevent type 2 diabetes in vulnerable families across Europe: the Feel4Diabetes-study. Willems R, Tsoutsouloupoulou K, Brondeel R, Cardon G, Makrilakis K, Liatis S, Lindström J, Kivelä J, González-Gil EM, Giménez-Legarre N, Usheva N, Iotova V, Tankova T, Antal E, Rurik I, Timpel P, Schwarz PEH, Manios Y, Annemans L. *Prev Med*. 2021 Jul 13:106722. doi: 10.1016/j.ypmed.2021.106722.

Examination of Sleep and Obesity in Children and Adolescents in the United States. Chehal PK, Shafer L, Cunningham SA. *Am J Health Promot*. 2021 Jul 12:8901171211029189. doi: 10.1177/08901171211029189.

History of depression, elevated BMI, and waist-to-height ratio in pre-adolescent children. Lewis-de Los Angeles WW, Liu RT. *Psychosom Med*. 2021 Jul 13. doi: 10.1097/PSY.0000000000000982.

Body image perception and body composition in early adolescents: a longitudinal study of an Italian cohort. Toselli S, Grigoletto A, Zaccagni L, Rinaldo N, Badicu G, Grosz WR, Campa F. *BMC Public Health*. 2021 Jul 12;21(1):1381. doi: 10.1186/s12889-021-11458-5.

Obesity and Health-Related Quality of Life in Children Hospitalized for Acute Respiratory Illness. Test MR, Mangione-Smith R, Zhou C, Wright DR, Halvorson EE, Johnson DP, Williams DJ, Vachani JG, Hitt TA, Tieder JS. *Hosp Pediatr.* 2021 Jul 15;hpeds.2020-004531. doi: 10.1542/hpeds.2020-004531.

Evaluation of the Success of Weight Loss Programs Using the Fit for Performance Curriculum. Wonn J, Khan J. *Mil Med.* 2021 Jul 14;usab287. doi: 10.1093/milmed/usab287.

Development of an online curriculum for California early care and education providers on healthy beverages. Hazard K, Lee D, Ritchie L, Rose R, Rios LKD, Plank K, Alkon A. *BMC Public Health.* 2021 Jul 13;21(1):1387. doi: 10.1186/s12889-021-11428-x.

Assessing the Contribution of Self-Monitoring Through a Commercial Weight Loss App: Mediation and Predictive Modeling Study. Farage G, Simmons C, Kocak M, Klesges RC, Talcott GW, Richey P, Hare M, Johnson KC, Sen S, Krukowski R. *JMIR Mhealth Uhealth.* 2021 Jul 14;9(7):e18741. doi: 10.2196/18741.

Later sleep timing predicts accelerated summer weight gain among elementary school children: a prospective observational study. Moreno JP, Razjouyan J, Lester H, Dadabhoy H, Amirmazaheri M, Reesor-Oyer L, O'Connor TM, Hernandez DC, Najafi B, Alfano CA, Crowley SJ, Thompson D, Baranowski T. *Int J Behav Nutr Phys Act.* 2021 Jul 12;18(1):94. doi: 10.1186/s12966-021-01165-0.

Awareness drives changes in reward value which predict eating behavior change: Probing reinforcement learning using experience sampling from mobile mindfulness training for maladaptive eating. Taylor VA, Moseley I, Sun S, Smith R, Roy A, Ludwig VU, Brewer JA. *J Behav Addict.* 2021 Jul 15. doi: 10.1556/2006.2021.00020.

Weight bias reduction among first-year medical students: A quasi-randomized, controlled trial. Fitterman-Harris HF, Vander Wal JS. *Clin Obes.* 2021 Jul 14:e12479. doi: 10.1111/cob.12479.

Meal patterns associated with energy intake in people with obesity. Horn C, Laupsa-Borge J, Andersen AIO, Dyer L, Revheim I, Leikanger T, Næsheim NT, Storås I, Johannessen KK, Mellgren G, Dierkes J, Dankel SN. *Br J Nutr.* 2021 Jul 12:1-48. doi: 10.1017/S0007114521002580.

Distribution of comorbidities as primary diagnoses by obesity class among patients in a large US paediatric healthcare system. Nussbaum BM, Mathew MS, Atem F, Barlow SE, Gupta OT, Messiah SE. *Clin Obes.* 2021 Jul 12:e12478. doi: 10.1111/cob.12478.

Randomized Trial Examining the Effect of a 12-wk Exercise Program on Hedonic Eating. Unick JL, Dunsiger SI, Leblond T, Hahn K, Thomas JG, Abrantes AM, Stroud LR, Wing RR. *Med Sci Sports Exerc.* 2021 Aug 1;53(8):1638-1647. doi: 10.1249/MSS.0000000000002619.

Bariatric surgery versus medical treatment in mildly obese patients with type 2 diabetes mellitus in Japan: propensity score-matched analysis on real-world data. Seki Y, Kasama K, Yokoyama R, Maki A, Shimizu H, Park H, Kurokawa Y. *J Diabetes Investig.* 2021 Jul 15. doi: 10.1111/jdi.13631.

Institutional factors associated with college students' healthy physical activity and body composition: A first semester follow-up. Deng Y, Hwang Y, Campbell S, McCullick BA, Yli-Piipari S. *J Am Coll Health.* 2021 Jul 14:1-9. doi: 10.1080/07448481.2021.1922416.

Price promotions offered by quick service restaurants in Australia: analysis from an obesity prevention perspective. Looi ES, Backholer K, Cameron AJ, Grigsby-Duffy L, Orellana L, Sacks G. *Public Health Nutr.* 2021 Jun 21:1-15. doi: 10.1017/S1368980021002688.

Perceptions of Arguments in Support of Policies to Reduce Sugary Drink Consumption Among Low-Income White, Black and Latinx Parents of Young Children. Cannon JS, Farkouh EK, Winett LB, Dorfman L, Ramírez AS, Lazar S, Niederdeppe J. *Am J Health Promot.* 2021 Jul 16:8901171211030849. doi: 10.1177/08901171211030849.

Patient perspectives on psychological care after bariatric surgery: A qualitative study. Chan JKY, King M, Vartanian LR. *Clin Obes.* 2020 Dec;10(6):e12399. doi: 10.1111/cob.12399.

The Case for a Health at Every Size Approach for Chronic Disease Risk Reduction in Women of Color. Rauchwerk A, Viperman-Cohen A, Padmanabhan S, Parasram W, Burt KG. *J Nutr Educ Behav.* 2020 Nov;52(11):1066-1072. doi: 10.1016/j.jneb.2020.08.004.

Dietary Intake of Upper Midwest and Southwest Native American Adults. Loh IH, Trude ACB, Setiono F, Redmond L, Jock B, Gittelsohn J. *Ecol Food Nutr.* 2020 Sep-Oct;59(5):486-505. doi: 10.1080/03670244.2020.1752685.

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

International: Research related to COVID-19

COVID-19 infection, progression, and vaccination: Focus on obesity and related metabolic disturbances. Westheim AJF, Bitorina AV, Theys J, Shiri-Sverdllov R. *Obes Rev.* 2021 Jul 16. doi: 10.1111/obr.13313.

Characteristics and outcomes of 627 044 COVID-19 patients living with and without obesity in the United States, Spain, and the United Kingdom. Recalde M, Roel E, Pistillo A, Sena AG, Prats-Urbe A, Ahmed WU, Alghoul H, Alshammari TM, Alser O, Areia C, Burn E, Casajust P, Dawoud D, DuVall SL, Falconer T, Fernández-Bertolín S, Golozar A, Gong M, Lai LYH, Lane JCE, Lynch KE, Matheny ME, Mehta PP, Morales DR, Natarjan K, Nyberg F, Posada JD, Reich CG, Rijnbeek PR, Schilling LM, Shah K, Shah NH, Subbian V, Zhang L, Zhu H, Ryan P, Prieto-Alhambra D, Kostka K, Duarte-Salles T. *Int J Obes (Lond).* 2021 Jul 15. doi: 10.1038/s41366-021-00893-4.

COVID-19 Self-quarantine and Weight Gain Risk Factors in Adults. Zeigler Z. *Curr Obes Rep.* 2021 Jul 12:1-11. doi: 10.1007/s13679-021-00449-7.

The impact of COVID-19 on obesity services across Europe: A physician survey. Nather K, Bolger F, DiModica L, Fletcher-Louis M, Salvador J, Pattou F, Panton UH, Cancino AP. *Clin Obes.* 2021 Jul 13:e12474. doi: 10.1111/cob.12474.

Influence of the lockdown due to COVID-19 on weight-loss results during the first year after sleeve gastrectomy. Ruiz de Angulo D, Balaguer Román A, Munitiz Ruiz V, Gil Vázquez PJ, Ruiz Merino G, Ortiz Escandell MÁ, Martínez de Haro LF, Parrilla Paricio P. *Cir Esp (Engl Ed).* 2021 Jun-Jul;99(6):428-432. doi: 10.1016/j.cireng.2021.05.003.

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

Systematic reviews

Barriers to and Facilitators for Using Nutrition Apps: Systematic Review and Conceptual Framework. König LM, Attig C, Franke T, Renner B. *JMIR Mhealth Uhealth.* 2021 Apr 1. doi: 10.2196/20037.

Point-of-sale nutrition information interventions in food retail stores to promote healthier food purchase and intake: A systematic review. Chan J, McMahon E, Brimblecombe J. *Obes Rev.* 2021 Jul 12. doi: 10.1111/obr.13311.

Socioeconomic Inequalities in Dietary Intake in Chile: A Systematic Review. Vega-Salas MJ, Caro P, Johnson L, Papadaki A. *Public Health Nutr.* 2021 Jul 12:1-33. doi: 10.1017/S1368980021002937.

Preoperative Nonsurgical Weight Loss Interventions Before Total Hip and Knee Arthroplasty: A Systematic Review. Seward MW, Briggs LG, Bain PA, Chen AF. *J Arthroplasty.* 2021 Jun 24:S0883-5403(21)00561-1. doi: 10.1016/j.arth.2021.06.021.

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