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## UK and Ireland

**Discussing weight loss opportunistically and effectively in family practice: a qualitative study of clinical interactions using conversation analysis in UK family practice.** Albury CVA, Ziebland S, Webb H, Stokoe E, Aveyard P. Fam Pract. 2020 Dec 19:cmaa121. doi: 10.1093/fampra/cmaa121.

**Tackling poverty, treating obesity: a 'whole system' approach.** Hayre J. Arch Dis Child. 2020 Dec 21:archdischild-2020-320552. doi: 10.1136/archdischild-2020-320552.

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### **UK and Ireland: Research related to COVID-19**

**Weight-related lifestyle behaviours and the COVID-19 crisis: An online survey study of UK adults during social lockdown.** Robinson E, Gillespie S, Jones A. Obes Sci Pract. 2020 Aug 12;6(6):735-740. doi: 10.1002/osp4.442.

**Body mass index and the risk of COVID-19 across ethnic groups: Analysis of UK Biobank.** Razieh C, Zaccardi F, Davies MJ, Khunti K, Yates T. Diabetes Obes Metab. 2020 Oct;22(10):1953-1954. doi: 10.1111/dom.14125.

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## International

**Binge Eating and Binge Drinking: A Two-Way Road? An Integrative Review.** Escrivá-Martínez T, Herrero R, Molinari G, Rodríguez-Arias M, Verdejo-García A, Baños RM. Curr Pharm Des. 2020;26(20):2402-2415. doi: 10.2174/1381612826666200316153317.

**Building a Resilient, Sustainable, and Healthier Food Supply through Innovation and Technology.** McClements DJ, Barrangou R, Hill C, Kokini JL, Ann Lila M, Meyer AS, Yu L. Annu Rev Food Sci Technol. 2020 Dec 21. doi: 10.1146/annurev-food-092220-030824.

**A cross-sectional analysis of physical activity and weight misreporting in diverse populations: The Seattle Obesity Study III.** Buszkiewicz J, Rose C, Gupta S, Ko LK, Mou J, Moudon AV, Hurvitz PM, Cook A, Aggarwal A, Drewnowski A. *Obes Sci Pract.* 2020 Aug 21;6(6):615-627. doi: 10.1002/osp4.449.

**Agreement in Infant Growth Indicators and Overweight/Obesity between Community and Clinical Care Settings.** Harris HA, Kling SMR, Marini M, Hassink SG, Bailey-Davis L, Savage JS. *J Acad Nutr Diet.* 2020 Dec 15:S2212-2672(20)31486-6. doi: 10.1016/j.jand.2020.11.009.

**Internalized Weight Bias, Teasing, and Self-Esteem in Children with Overweight or Obesity.** Fields LC, Brown C, Skelton JA, Cain KS, Cohen GM. *Child Obes.* 2020 Dec 22. doi: 10.1089/chi.2020.0150.

**Intervention for improvement the diet and physical activity of children and adolescents in Poland.** Wolnicka K, Charzewska J, Taraszewska A, Czarniecka R, Jaczewska-Schuetz J, Bieńko N, Olszewska E, Wajszczyk B, Jarosz M. *Rocznik Państw Zakładów Higieny.* 2020;71(4):383-391. doi: 10.32394/rpzh.2020.0138.

**An egalitarian society? Widening inequalities in premature mortality from non-communicable diseases in Australia, 2006-16.** Adair T, Lopez AD. *Int J Epidemiol.* 2020 Dec 8:dyaa226. doi: 10.1093/ije/dyaa226.

**Waist circumference as a prognostic index of childhood abdominal obesity: findings in the Spanish population.** Sánchez Campayo E, Puga Giménez de Azcárate AM, Angulo Díaz-Parreño S, Ávila Torres JM, Varela Moreiras G, Partearroyo T. *Nutr Hosp.* 2020 Dec 21. doi: 10.20960/nh.03197.

**Understanding the healthfulness of outlets providing lunch and dinner meals: a census of a rural food retail environment in Victoria, Australia.** Alston L, Versace V, Brown E, Nichols M, Whelan J, Bolton KA, Sacks G, Needham C, Orellana L, Allender S. *Aust N Z J Public Health.* 2020 Dec 21. doi: 10.1111/1753-6405.13057.

**Associations between parental perception of- and concern about-child weight and use of specific food-related parenting practices.** Loth KA, Mohamed N, Trofholz A, Tate A, Berge JM. *Appetite.* 2020 Dec 24;160:105068. doi: 10.1016/j.appet.2020.105068.

**Weight Status and BMI-Related Traits in Adolescent Friendship Groups and Role of Sociodemographic Factors: The European IDEFICS/I.Family Cohort.** Mehlig K, Holmberg C, Bogl LH, Erhardt E, Hadjigeorgiou C, Hebestreit A, Kaprio J, Lauria F, Michels N, Pigeot I, Reisch LA, Veidebaum T, Lissner L; On behalf of the IDEFICS and I.Family consortia. *Obes Facts.* 2020 Dec 22:1-10. doi: 10.1159/000512356.

**Adiposity and High Blood Pressure during Childhood: A Prospective Analysis of the Role of Physical Activity Intensity and Sedentary Time in the GECKO Drenthe Cohort.** Wiersma R, Hartman E, Boezen HM, Corpeleijn E. *Int J Environ Res Public Health.* 2020 Dec 19;17(24):E9526. doi: 10.3390/ijerph17249526.

**Discrepancies between actual weight, weight perception and weight loss intention amongst persons with NAFLD.** Nguyen VH, Yeo YH, Zou B, Le MH, Henry L, Cheung RC, Nguyen MH. *J Intern Med.* 2020 Dec 19. doi: 10.1111/joim.13203.

**Individual Physical Activity Behaviour and Group Composition as Determinants of the Effectiveness of a Childhood Obesity Intervention Program.** Lier LM, Breuer C, Ferrari N, Friesen D, Maisonave F, Schmidt N, Graf C. *Obes Facts.* 2020 Dec 22:1-8. doi: 10.1159/000512293.

**Perceived barriers/facilitators to a healthy lifestyle among diverse adolescents with overweight/obesity: A qualitative study.** Cardel MI, Szurek SM, Dillard JR, Dilip A, Miller DR, Theis R, Bernier A, Thompson LA, Dulin A, Janicke DM, Lee AM. *Obes Sci Pract.* 2020 Aug 18;6(6):638-648. doi: 10.1002/osp4.448.

**Understanding the Influence of Eating Patterns on Binge Drinking: A Mediation Model.** Escrivá-Martínez T, Galiana L, Herrero R, Rodríguez-Arias M, Baños RM. *Int J Environ Res Public Health.* 2020 Dec 17;17(24):9451. doi: 10.3390/ijerph17249451.

**Comparison of mindful and slow eating strategies on acute energy intake.** Simonson AP, Davis KK, Barone Gibbs B, Venditti EM, Jakicic JM. *Obes Sci Pract.* 2020 Aug 27;6(6):668-676. doi: 10.1002/osp4.441.

**Perceptions of the social and physical environment of adolescents' dietary behaviour in neighbourhoods of different socioeconomic position.** Havdal HH, Fosse E, Gebremariam MK, Lakerveld J, Arah OA, Stronks K, Lien N. *Appetite.* 2020 Dec 22;159:105070. doi: 10.1016/j.appet.2020.105070.

**Impact of Restricting Sugar-Sweetened Beverages From the Supplemental Nutrition Assistance Program on Children's Health.** Choi SE, Wright DR, Bleich SN. *Am J Prev Med.* 2020 Dec 18:S0749-3797(20)30407-4. doi: 10.1016/j.amepre.2020.08.023.

**Physical Activity, Screen Time, and Sleep Duration of Children Aged 6-9 Years in 25 Countries: An Analysis within the WHO European Childhood Obesity Surveillance Initiative (COSI) 2015-2017.** Whiting S, Buoncristiano M, Gelius P, Abu-Omar K, Pattison M, Hyska J, Duleva V, Musić Milanović S, Zamrazilová H, Hejgaard T, Rasmussen M, Nurk E, Shengelia L, Kelleher CC, Heinen MM, Spinelli A, Nardone P, Abildina A, Abdurakhmanova S, Aitmurzaeva G, Usuopva Z, Pudule I, Petrauskienė A, Sant'Angelo VF, Kujundzic E, Popovic S, Fisman AS, Bergh IH, Fijalkowska A, Rito AI, Cucu A, Brinduse LA, Peterkova V, Gualtieri A, García-Solano M, Gutiérrez-González E, Abdurrahmonova Z, Boymatova K, Yardim N, Tanrygulyyeva M, Weghuber D, Schindler K, Stojisavljević D, Filipović Hadžiomeragić A, Markidou Ionnaidou E, Ahrens W, Hassapidou M, Kovacs VA, Ostožic SM, Ticha L, Starc G, Russell Jonsson K, Spiroski I, Rutter H, Mendes R, Williams J, Rakovac I, Breda J. *Obes Facts.* 2020 Dec 22:1-13. doi: 10.1159/000511263.

**Differences in treatment response to a total diet replacement intervention versus a food-based intervention: A secondary analysis of the OPTIWIN trial.** Ard JD, Lewis KH, Cohen SS, Rothberg AE, Coburn SL, Loper J, Matarese L, Pories WJ, Periman S. *Obes Sci Pract.* 2020 Aug 11;6(6):605-614. doi: 10.1002/osp4.444.

**How Minority Parents Could Help Children Develop Healthy Eating Behaviors: Parent and Child Perspectives.** Callender C, Velazquez D, Adera M, Dave JM, Olvera N, Chen TA, Alford S, Thompson D. *Nutrients.* 2020 Dec 18;12(12):E3879. doi: 10.3390/nu12123879.

**Motivational Interviewing Adapted to Group Setting for the Treatment of Relapse in the Behavioral Therapy of Obesity. A Clinical Audit.** Centis E, Petroni ML, Ghirelli V, Cioni M, Navacchia P, Guberti E, Marchesini G. *Nutrients.* 2020 Dec 18;12(12):E3881. doi: 10.3390/nu12123881.

**Completeness of Intervention Reporting of Clinical Trials Published in Highly Ranked Obesity Journals.** Rauh SL, Turner D, Jellison S, Allison DB, Fugate C, Foote G, Vassar M. *Obesity (Silver Spring).* 2020 Dec 19. doi: 10.1002/oby.23054.

**Longer-Term Impacts of Sugar-Sweetened Beverage Taxes on Fast-Food Beverage Prices: Evidence from Oakland, California, Two-Years Post-Tax.** Marinello S, Pipito AA, Leider J, Pugach O, Powell LM. *Public Health Nutr.* 2020 Dec 22:1-15. doi: 10.1017/S1368980020005212.

**Web-based virtual reality to enhance behavioural skills training and weight loss in a commercial online weight management programme: The Experience Success randomized trial.** Thomas JG, Goldstein CM, Bond DS, Hadley W, Tuerk PW. *Obes Sci Pract.* 2020 Aug 27;6(6):587-595. doi: 10.1002/osp4.451.

**Using Smartphones When Eating Increases Caloric Intake in Young People: An Overview of the Literature.** La Marra M, Caviglia G, Perrella R. *Front Psychol.* 2020 Dec 3;11:587886. doi: 10.3389/fpsyg.2020.587886.

**Investigating change in the food environment over 10 years in urban New Zealand: A longitudinal and nationwide geospatial study.** Hobbs M, Mackenbach JD, Wiki J, Marek L, McLeod GFH, Boden JM. *Soc Sci Med.* 2020 Nov 14:113522. doi: 10.1016/j.socscimed.2020.113522.

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

**Comparison of the characteristics, morbidity, and mortality of COVID-19 and seasonal influenza: a nationwide, population-based retrospective cohort study.** Piroth L, Cottenet J, Mariet AS, Bonniaud P, Blot M, Tubert-Bitter P, Quantin C. *Lancet Respir Med.* 2020 Dec 17:S2213-2600(20)30527-0. doi: 10.1016/S2213-2600(20)30527-0.

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## **Systematic reviews**

**Economics of Interventions to Increase Active Travel to School: A Community Guide Systematic Review.** Jacob V, Chattopadhyay SK, Reynolds JA, Hopkins DP, Morgan JA, Brown DR, Kochtitzky CS, Cuellar AE, Kumanyika SK; Community Preventive Services Task Force. *Am J Prev Med.* 2021 Jan;60(1):e27-e40. doi: 10.1016/j.amepre.2020.08.002.

**Effectiveness of behavioral interventions and behavior change techniques for reducing soft drink intake in disadvantaged adolescents: A systematic review and meta-analysis.** Shagiwal SS, Groenestijn E, Schop-Etman A, Jongerling J, van der Waal J, Noordzij G, Denktas S. *Obes Sci Pract.* 2020 Oct 8;6(6):708-734. doi: 10.1002/osp4.452.

**Weight loss outcomes in premenopausal versus postmenopausal women during behavioral weight loss interventions: a systematic review and meta-analysis.** Thomson ZO, Kelly JT, Sainsbury A, Reeves MM. *Menopause.* 2020 Dec 21;Publish Ahead of Print. doi: 10.1097/GME.0000000000001684.

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

**Prevalence of co-morbidities and their association with mortality in patients with COVID-19: A systematic review and meta-analysis.** Singh AK, Gillies CL, Singh R, Singh A, Chudasama Y, Coles B, Seidu S, Zaccardi F, Davies MJ, Khunti K. *Diabetes Obes Metab.* 2020 Oct;22(10):1915-1924. doi: 10.1111/dom.14124.

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