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UK and Ireland

[Deconstructing Weight Management Interventions for Young Adults: Looking Inside the Black Box of the EARLY Consortium Trials](#). Tate DF, Lytle L, Polzien K, Diamond M, Leonard KR, Jakicic JM, Johnson KC, Olson CM, Patrick K, Svetkey LP, Wing RR, Lin PH, Coday M, Laska MN, Merchant G, Czaja SJ, Schulz R, Belle SH. *Obesity (Silver Spring)*. 2019 Jul;27(7):1085-1098. doi: 10.1002/oby.22506.

[Ethnicity and Type 2 diabetes in the UK](#). Goff LM. *Diabet Med*. 2019 Aug;36(8):927-938. doi: 10.1111/dme.13895.

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International

[Comorbid Obesity and Depressive Symptoms in Childhood Asthma: A Harmful Synergy](#). Hsu CY, Lehman HK, Wood BL, Benipal J, Humayun Q, Miller BD. *J Allergy Clin Immunol Pract*. 2020 Apr 15. pii: S2213-2198(20)30336-6. doi: 10.1016/j.jaip.2020.03.036.

[Breathing at extremes: the restrictive consequences of super- and super-super obesity in men and women](#). Marillier M, Bernard AC, Reimao G, Castelli G, Alqurashi H, O'Donnell DE, Neder JA. *Chest*. 2020 Apr 15. pii: S0012-3692(20)30690-5. doi: 10.1016/j.chest.2020.04.006

[Nudging while online grocery shopping: A randomized feasibility trial to enhance nutrition in individuals with food insecurity](#). Coffino JA, Udo T, Hormes JM. *Appetite*. 2020 Apr 15:104714. doi: 10.1016/j.appet.2020.104714.

[Obesity and healthcare interventions: Substantiating a multi-modal challenge through the lens of grounded theory](#). Mandlik M, Oetzel J, Kadirov D. *Health Promot J Austr*. 2020 Apr 18. doi: 10.1002/hpja.347

[Breakfast Skipping, Body Composition, and Cardiometabolic Risk: A Systematic Review and Meta-Analysis of Randomized Trials](#). Bonnet JP, Cardel MI, Cellini J, Hu FB, Guasch-Ferré M. *Obesity (Silver Spring)*. 2020 Apr 18. doi: 10.1002/oby.22791.

Intra-familial health polarisation: how diverse health concerns become barriers to health behaviour change in families with preschool children and emerging obesity. Hoeg D, Christensen U, Grabowski D. *Sociol Health Illn*. 2020 Apr 18. doi: 10.1111/1467-9566.13091.

Promoting physical activity through walking to treat childhood obesity, mainly for mild to moderate obesity. Yoshinaga M, Miyazaki A, Aoki M, Ogata H, Ito Y, Hamajima T, Tokuda M, Lin L, Horigome H, Takahashi H, Nagashima M. *Pediatr Int*. 2020 Apr 17. doi: 10.1111/ped.14253.

Associations between naturalistically assessed physical activity patterns, affect, and eating in youth with overweight and obesity. Smith KE, Haedt-Matt A, Mason TB, Wang S, Yang CH, Unick JL, Bond D, Goldschmidt AB. *J Behav Med*. 2020 Apr 17. doi: 10.1007/s10865-020-00152-3.

Weight loss in obese children with asthma - is it important? McLoughlin RF, Berthon BS, Wood LG. *Paediatr Respir Rev*. 2020 Mar 6. pii: S1526-0542(20)30026-9. doi: 10.1016/j.prrv.2020.02.007.

What is nutritional assessment? A quick guide for critical care clinicians. Ferrie S. *Aust Crit Care*. 2020 Apr 14. pii: S1036-7314(20)30047-3. doi: 10.1016/j.aucc.2020.02.005.

Pilot trial of a group cognitive behavioural therapy program for comorbid depression and obesity. Loes T, Musker M, Collins K, Burke A, Perry SW, Wong ML, Licinio J. *BMC Psychol*. 2020 Apr 17;8(1):34. doi: 10.1186/s40359-020-00400-w.

Greater Average Meal Planning Frequency Predicts Greater Weight Loss Outcomes in a Worksite-Based Behavioral Weight Loss Program. Hayes JF, Balantekin KN, Fitzsimmons-Craft EE, Jackson JJ, Ridolfi DR, Boeger HS, Welch RR, Wilfley DE. *Ann Behav Med*. 2020 Apr 17. pii: kaaa021. doi: 10.1093/abm/kaaa021.

Diet diversity score and healthy eating index in relation to diet quality and socio-demographic factors: results from a cross-sectional national dietary survey of Swedish adolescents. Moraeus L, Lindroos AK, Warensjö Lemming E, Mattisson I. *Public Health Nutr*. 2020 Apr 17:1-12. doi: 10.1017/S1368980019004671.

A Digital Health Weight Loss Program in 250,000 Individuals. Senecal C, Widmer RJ, Larrabee BR, de Andrade M, Lerman LO, Lerman A, Lopez-Jimenez F. *J Obes*. 2020 Mar 26;2020:9497164. doi: 10.1155/2020/9497164.

A Public Health Messaging Campaign to Reduce Caloric Intake: Feedback From Expert Stakeholders. Gonzalez-Nahm S, Bhatti AM, Ames ML, Zaltz D, Benjamin-Neelon SE. *J Nutr Educ Behav*. 2020 Apr 13. pii: S1499-4046(20)30100-7. doi: 10.1016/j.jneb.2020.02.018.

Impact of an educational intervention on the quality of the Mediterranean diet, physical activity and weight status in adolescents: Randomised clinical trial. Prieto-Zambrano P, Pache-Iglesias L, Domínguez-Martín AT, Panea-Pizarro I, Gómez-Luque A, López-Espuela F. *Enferm Clin*. 2020 Apr 13. pii: S1130-8621(20)30234-5. doi: 10.1016/j.enfcli.2020.03.003.

Regulating Food Craving: From Mechanisms to Interventions. Sun W, Kober H. *Physiol Behav*. 2020 Apr 13:112878. doi: 10.1016/j.physbeh.2020.112878.

Like me, like you - relative importance of peers and siblings on children's fast food consumption and screen time but not sports club participation depends on age. Bogl LH, Mehlig K, Ahrens W, Gwozdz W, de Henauw S, Molnár D, Moreno L, Pigeot I, Russo P, Solea A, Veidebaum T, Kaprio J, Lissner L, Hebestreit A; IDEFICS and I. Family Consortia. *Int J Behav Nutr Phys Act.* 2020 Apr 15;17(1):50. doi: 10.1186/s12966-020-00953-4.

Built Environment and Childhood Weight Status: A Multi-Level Study Using Population-Based Data in the City of Hannover, Germany. Zhou Y, Buck C, Maier W, von Lengerke T, Walter U, Dreier M. *Int J Environ Res Public Health.* 2020 Apr 14;17(8). pii: E2694. doi: 10.3390/ijerph17082694.

Association of Sedentary Behavior with Brain Structure and Intelligence in Children with Overweight or Obesity: The ActiveBrains Project. Zavala-Crichton JP, Esteban-Cornejo I, Solis-Urra P, Mora-Gonzalez J, Cadenas-Sanchez C, Rodriguez-Ayllon M, Migueles JH, Molina-Garcia P, Verdejo-Roman J, Kramer AF, Hillman CH, Erickson KI, Catena A, Ortega FB. *J Clin Med.* 2020 Apr 12;9(4). pii: E1101. doi: 10.3390/jcm9041101.

Caloric compensation and appetite control in children of different weight status and predisposition to obesity. Kral TVE, Moore RH, Chittams J, O'Malley L, Jones E, Quinn RJ, Fisher JO. *Appetite.* 2020 Apr 11:104701. doi: 10.1016/j.appet.2020.104701.

The Relative Contribution of Socioeconomic and Genetic Factors to Variation in Body Mass Index among Young Adults. Kim R, Lippert AM, Wedow R, Jimenez MP, Subramanian SV. *Am J Epidemiol.* 2020 Apr 14. pii: kwaa058. doi: 10.1093/aje/kwaa058.

Impact of a Web-Based Exercise and Nutritional Education Intervention in Patients Who Are Obese With Hypertension: Randomized Wait-List Controlled Trial. Lisón JF, Palomar G, Mensorio MS, Baños RM, Cebolla-Martí A, Botella C, Benavent-Caballer V, Rodilla E. *J Med Internet Res.* 2020 Apr 14;22(4):e14196. doi: 10.2196/14196.

Combinations of physical activity and screen time recommendations and their association with overweight/obesity in adolescents. Crowe M, Sampasa-Kanyinga H, Saunders TJ, Hamilton HA, Benchimol EI, Chaput JP. *Can J Public Health.* 2020 Apr 13. doi: 10.17269/s41997-020-00313-6.

Emotional eating in patients attending a specialist obesity treatment service. Wong L, Stammers L, Churilov L, Price S, Ekinci E, Sumithran P. *Appetite.* 2020 Apr 10:104708. doi: 10.1016/j.appet.2020.104708.

Mediators of intervention effects on dietary fat intake in low-income overweight or obese women with young children. Chang MW, Tan A, Ling J, Wegener DT, Robbins LB. *Appetite.* 2020 Apr 10;151:104700. doi: 10.1016/j.appet.2020.104700.

Validation of self-reported height and weight in a large, nationwide cohort of U.S. adults. Hodge JM, Shah R, McCullough ML, Gapstur SM, Patel AV. *PLoS One.* 2020 Apr 13;15(4):e0231229. doi: 10.1371/journal.pone.0231229.

Body weight impact of the sugar-sweetened beverages tax in Mexican children: A modeling study. Torres-Álvarez R, Barrán-Zubaran R, Canto-Osorio F, Sánchez-Romero LM, Camacho-García-Formentí D, Popkin BM, Rivera JA, Meza R, Barrientos-Gutiérrez T. *Pediatr Obes.* 2020 Apr 13:e12636. doi: 10.1111/ijpo.12636.

Deconstructing Weight Management Interventions for Young Adults: Looking Inside the Black Box of the EARLY Consortium Trials. Tate DF, Lytle L, Polzien K, Diamond M, Leonard KR, Jakicic JM, Johnson KC, Olson CM, Patrick K, Svetkey LP, Wing RR, Lin PH, Coday M, Laska MN, Merchant G, Czaja SJ, Schulz R, Belle SH. *Obesity (Silver Spring)*. 2019 Jul;27(7):1085-1098. doi: 10.1002/oby.22506.

Consumption of low-calorie sweetened beverages is associated with higher total energy and sugar intake among children, NHANES 2011-2016. Sylvetsky AC, Figueroa J, Zimmerman T, Swithers SE, Welsh JA. *Pediatr Obes*. 2019 Oct;14(10):e12535. doi: 10.1111/ijpo.12535

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Systematic reviews

A systematic review and meta-analysis of attentional bias toward food in individuals with overweight and obesity. Hagan KE, Alasmar A, Exum A, Chinn B, Forbush KT. *Appetite*. 2020 Apr 13:104710. doi: 10.1016/j.appet.2020.104710.

A systematic review of lifestyle patterns and their association with adiposity in children aged 5-12 years. D'Souza NJ, Kuswara K, Zheng M, Leech R, Downing KL, Lioret S, Campbell KJ, Hesketh KD. *Obes Rev*. 2020 Apr 15. doi: 10.1111/obr.13029.

Interventions that prevent or reduce obesity in children from birth to five years of age: A systematic review. Narzisi K, Simons J. *J Child Health Care*. 2020 Apr 15:1367493520917863. doi: 10.1177/1367493520917863.

That's My Cue to Eat: A Systematic Review of the Persuasiveness of Front-of-Pack Cues on Food Packages for Children vs. Adults. Hallez L, Qutteina Y, Raedschelders M, Boen F, Smits T. *Nutrients*. 2020 Apr 11;12(4). pii: E1062. doi: 10.3390/nu12041062.

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