

MD7513 - Prevention, Screening & Early Detection in Diabetes

View Online



Prevention, Screening & Early Detection in Diabetes

A community based primary prevention programme for type 2 diabetes integrating identification and lifestyle intervention for prevention: the Let's Prevent Diabetes cluster randomised controlled trial- ClinicalKey (no date). Available at: <https://www-clinicalkey-com.ezproxy3.lib.le.ac.uk/#!/content/journal/1-s2.0-S0091743515003850>.

'A Systems Science Approach to the Obesity Epidemic and Prevention of Diabetes.' (20AD). Available at: <https://www.youtube.com/watch?v=HrrD-Z0B7dY&feature=youtu.be&t=55s%20A%20Systems%20Science%20Approach%20to%20the%20Obesity%20Epidemic%20and%20Prevention%20of%20Diabetes>.

Absetz, P. et al. (2009) 'Type 2 Diabetes Prevention in the Real World: Three-year results of the GOAL Lifestyle Implementation Trial', *Diabetes Care*, 32(8), pp. 1418-1420. Available at: <https://doi.org/10.2337/dc09-0039>.

Ackermann, R.T. et al. (2008) 'Translating the Diabetes Prevention Program into the Community', *American Journal of Preventive Medicine*, 35(4), pp. 357-363. Available at: <https://doi.org/10.1016/j.amepre.2008.06.035>.

Aguiar, E.J. et al. (2016) 'Efficacy of the Type 2 Diabetes Prevention Using LifeStyle Education Program RCT', *American Journal of Preventive Medicine*, 50(3), pp. 353-364. Available at: <https://doi.org/10.1016/j.amepre.2015.08.020>.

'American Diabetes Association - Standards of Medical Care in Diabetes - 2017 Summary of Revisions' (2017) *Diabetes Care*, 40(Supplement 1), pp. S4-S5. Available at: <https://doi.org/10.2337/dc17-S003>.

Aune, D. et al. (2013) 'Whole grain and refined grain consumption and the risk of type 2 diabetes: a systematic review and dose-response meta-analysis of cohort studies', *European Journal of Epidemiology*, 28(11), pp. 845-858. Available at: <https://doi.org/10.1007/s10654-013-9852-5>.

Bailey, Stephen (no date) *Academic Writing : A Handbook for International Students*. 5th edn. Available at: <https://ebookcentral.proquest.com/lib/leicester/detail.action?docID=5178437>.

Barry, E. et al. (2017) 'Efficacy and effectiveness of screen and treat policies in prevention of type 2 diabetes: systematic review and meta-analysis of screening tests and interventions', *BMJ* [Preprint]. Available at: <https://doi.org/10.1136/bmj.i6538>.

- Breeze, P.R., Thomas, C., Squires, H., Brennan, A., Greaves, C., Diggle, P., et al. (2017) 'Cost-effectiveness of population-based, community, workplace and individual policies for diabetes prevention in the UK', *Diabetic Medicine*, 34(8), pp. 1136–1144. Available at: <https://doi.org/10.1111/dme.13349>.
- Breeze, P.R., Thomas, C., Squires, H., Brennan, A., Greaves, C., Diggle, P.J., et al. (2017) 'The impact of Type 2 diabetes prevention programmes based on risk-identification and lifestyle intervention intensity strategies: a cost-effectiveness analysis', *Diabetic Medicine*, 34(5), pp. 632–640. Available at: <https://doi.org/10.1111/dme.13314>.
- Brown, J. et al. (1996) 'Lifestyle interventions for the treatment of women with gestational diabetes', in *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd. Available at: <https://doi.org/10.1002/14651858.CD011970.pub2>.
- Carlsson, L.M.S. et al. (2012a) 'Bariatric Surgery and Prevention of Type 2 Diabetes in Swedish Obese Subjects', *New England Journal of Medicine*, 367(8), pp. 695–704. Available at: <https://doi.org/10.1056/NEJMoa1112082>.
- Carlsson, L.M.S. et al. (2012b) 'Bariatric Surgery and Prevention of Type 2 Diabetes in Swedish Obese Subjects', *New England Journal of Medicine*, 367(8), pp. 695–704. Available at: <https://doi.org/10.1056/NEJMoa1112082>.
- Carter, P., Khunti, K. and Davies, M.J. (2012) 'Dietary Recommendations for the Prevention of Type 2 diabetes: What Are They Based on?', *Journal of Nutrition and Metabolism*, 2012, pp. 1–6. Available at: <https://doi.org/10.1155/2012/847202>.
- Church, T.S. et al. (2010) 'Effects of Aerobic and Resistance Training on Hemoglobin A Levels in Patients With Type 2 Diabetes', *JAMA*, 304(20). Available at: <https://doi.org/10.1001/jama.2010.1710>.
- Clinical applicability and cost-effectiveness of DIABSCORE in screening for type 2 diabetes in primary care- ClinicalKey (no date). Available at: <https://www-clinicalkey-com.ezproxy3.lib.le.ac.uk/#!/content/journal/1-s2.0-S0168822717301031>.
- Colberg, S.R. et al. (2010) 'Exercise and Type 2 Diabetes: The American College of Sports Medicine and the American Diabetes Association: joint position statement executive summary', *Diabetes Care*, 33(12), pp. 2692–2696. Available at: <https://doi.org/10.2337/dc10-1548>.
- Colberg, S.R. et al. (2016) 'Physical Activity/Exercise and Diabetes: A Position Statement of the American Diabetes Association', *Diabetes Care*, 39(11), pp. 2065–2079. Available at: <https://doi.org/10.2337/dc16-1728>.
- 'Correction' (2007) *Circulation*, 116(23), pp. e557–e557. Available at: <https://doi.org/10.1161/CIRCULATIONAHA.107.187928>.
- Creame, P. and Lea, M.R. (2008) *Writing At University: A Guide For Students*. 3rd ed. Maidenhead: McGraw-Hill Education. Available at: <https://ebookcentral.proquest.com/lib/leicester/detail.action?pq-origsite=primo&docID=345134>.

Dagfinn Aune (2016) 'Whole grain consumption and risk of cardiovascular disease, cancer, and all cause and cause specific mortality: systematic review and dose-response meta-analysis of prospective studies', *The BMJ*, 353. Available at: <https://doi.org/doi:10.1136/bmj.i2716>.

Deborah F Tate (2012) 'Replacing caloric beverages with water or diet beverages for weight loss in adults: main results of the Choose Healthy Options Consciously Everyday (CHOICE) randomized clinical trial', *The American Journal of Clinical Nutrition*, 95(3). Available at: <https://doi.org/doi:10.3945/ajcn.111.026278>.

Dhingra, R. et al. (2007) 'Soft Drink Consumption and Risk of Developing Cardiometabolic Risk Factors and the Metabolic Syndrome in Middle-Aged Adults in the Community', *Circulation*, 116(5), pp. 480-488. Available at: <https://doi.org/10.1161/CIRCULATIONAHA.107.689935>.

Differences in the prospective association between individual plasma phospholipid saturated fatty acids and incident type 2 diabetes: the EPIC-InterAct case-cohort study (no date). Available at: http://ac.els-cdn.com/S2213858714701469/1-s2.0-S2213858714701469-main.pdf?_tid=41970bbc-7e93-11e7-a8e5-0000aabb0f01&acdnat=1502455838_1e4678aef6e5b79c43c42f6b68f370f1.

Dyson, P.A. et al. (2011) 'Diabetes UK evidence-based nutrition guidelines for the prevention and management of diabetes', *Diabetic Medicine*, 28(11), pp. 1282-1288. Available at: <https://doi.org/10.1111/j.1464-5491.2011.03371.x>.

Effect of a lifestyle intervention on weight change in south Asian individuals in the UK at high risk of type 2 diabetes: a family-cluster randomised controlled trial- *ClinicalKey* (no date). Available at: <https://www.clinicalkey.com/#!/content/journal/1-s2.0-S2213858713702043>.

Emily A Hu (2012) 'White rice consumption and risk of type 2 diabetes: meta-analysis and systematic review', *The BMJ*, 344. Available at: <https://doi.org/doi:10.1136/bmj.e1454>.

Fogelholm, M. et al. (2017) 'PREVIEW: Prevention of Diabetes through Lifestyle Intervention and Population Studies in Europe and around the World. Design, Methods, and Baseline Participant Description of an Adult Cohort Enrolled into a Three-Year Randomised Clinical Trial', *Nutrients*, 9(6). Available at: <https://doi.org/10.3390/nu9060632>.

Georgios S Papaetis (2014) 'Incretin-based therapies in prediabetes: Current evidence and future perspectives', *World Journal of Diabetes*, 5(6). Available at: <https://doi.org/doi:10.4239/wjd.v5.i6.817>.

Gillies, C.L. et al. (2007) 'Pharmacological and lifestyle interventions to prevent or delay type 2 diabetes in people with impaired glucose tolerance: systematic review and meta-analysis', *BMJ*, 334(7588), pp. 299-299. Available at: <https://doi.org/10.1136/bmj.39063.689375.55>.

Gopalan, A. et al. (2015) 'Awareness of Prediabetes and Engagement in Diabetes Risk-Reducing Behaviors', *American Journal of Preventive Medicine*, 49(4), pp. 512-519. Available at: <https://doi.org/10.1016/j.amepre.2015.03.007>.

Gray, L.J. et al. (2010) 'The Leicester Risk Assessment score for detecting undiagnosed Type 2 diabetes and impaired glucose regulation for use in a multiethnic UK setting', *Diabetic Medicine*, 27(8), pp. 887–895. Available at: <https://doi.org/10.1111/j.1464-5491.2010.03037.x>.

Gray, L.J. et al. (2012) 'Detection of impaired glucose regulation and/or type 2 diabetes mellitus, using primary care electronic data, in a multiethnic UK community setting', *Diabetologia*, 55(4), pp. 959–966. Available at: <https://doi.org/10.1007/s00125-011-2432-x>.

Gray, L.J. et al. (2016) 'Engagement, Retention, and Progression to Type 2 Diabetes: A Retrospective Analysis of the Cluster-Randomised "Let's Prevent Diabetes" Trial', *PLOS Medicine*, 13(7). Available at: <https://doi.org/10.1371/journal.pmed.1002078>.

Gregg, E.W. and Shaw, J.E. (2017) 'Global Health Effects of Overweight and Obesity', *New England Journal of Medicine* [Preprint]. Available at: <https://doi.org/10.1056/NEJMe1706095>.

Hamman, R.F. et al. (2006) 'Effect of Weight Loss With Lifestyle Intervention on Risk of Diabetes', *Diabetes Care*, 29(9), pp. 2102–2107. Available at: <https://doi.org/10.2337/dc06-0560>.

'Health Effects of Overweight and Obesity in 195 Countries over 25 Years' (2017) *New England Journal of Medicine* [Preprint]. Available at: <https://doi.org/10.1056/NEJMoa1614362>.

Helen C Eborall (2007) 'Psychological impact of screening for type 2 diabetes: controlled trial and comparative study embedded in the ADDITION (Cambridge) randomised controlled trial', *BMJ : British Medical Journal*, 335(7618). Available at: <https://doi.org/doi:10.1136/bmj.39303.723449.55>.

How to prevent type 2 diabetes in women with previous gestational diabetes? A systematic review of behavioural interventions- ClinicalKey (no date). Available at: <https://www.clinicalkey.com/#!/content/playContent/1-s2.0-S1751991817300785?returnurl=null&referrer=null>.

Joiner, K.L., Nam, S. and Whittemore, R. (2017) 'Lifestyle interventions based on the diabetes prevention program delivered via eHealth: A systematic review and meta-analysis', *Preventive Medicine*, 100, pp. 194–207. Available at: <https://doi.org/10.1016/j.ypmed.2017.04.033>.

Koivusalo, S.B. et al. (2016) 'Gestational Diabetes Mellitus Can Be Prevented by Lifestyle Intervention: The Finnish Gestational Diabetes Prevention Study (RADIEL)', *Diabetes Care*, 39(1), pp. 24–30. Available at: <https://doi.org/10.2337/dc15-0511>.

Laaksonen, D.E. et al. (2005) 'Physical Activity in the Prevention of Type 2 Diabetes: The Finnish Diabetes Prevention Study', *Diabetes*, 54(1), pp. 158–165. Available at: <https://doi.org/10.2337/diabetes.54.1.158>.

LaMonte, M.J. (2005) 'Physical activity and diabetes prevention', *Journal of Applied Physiology*, 99(3), pp. 1205–1213. Available at:

<https://doi.org/10.1152/japplphysiol.00193.2005>.

Less Sitting, More Physical Activity, or Higher Fitness?- ClinicalKey (no date). Available at: <https://www-clinicalkey-com.ezproxy4.lib.le.ac.uk/#!/content/playContent/1-s2.0-S0025619615006308?returnurl=null&referrer=null>.

Ley, S.H. et al. (2014) 'Prevention and management of type 2 diabetes: dietary components and nutritional strategies', *The Lancet*, 383(9933), pp. 1999–2007. Available at: [https://doi.org/10.1016/S0140-6736\(14\)60613-9](https://doi.org/10.1016/S0140-6736(14)60613-9).

Li, R. et al. (2010) 'Cost-Effectiveness of Interventions to Prevent and Control Diabetes Mellitus: A Systematic Review', *Diabetes Care*, 33(8), pp. 1872–1894. Available at: <https://doi.org/10.2337/dc10-0843>.

Linda Penn (2013a) 'Importance of Weight Loss Maintenance and Risk Prediction in the Prevention of Type 2 Diabetes: Analysis of European Diabetes Prevention Study RCT', *PLoS ONE*, 8(2). Available at: <https://doi.org/doi:10.1371/journal.pone.0057143>.

Linda Penn (2013b) 'Importance of Weight Loss Maintenance and Risk Prediction in the Prevention of Type 2 Diabetes: Analysis of European Diabetes Prevention Study RCT', *PLoS ONE*, 8(2). Available at: <https://doi.org/doi:10.1371/journal.pone.0057143>.

Lindstrom, J. et al. (2003) 'The Finnish Diabetes Prevention Study (DPS): Lifestyle intervention and 3-year results on diet and physical activity', *Diabetes Care*, 26(12), pp. 3230–3236. Available at: <https://doi.org/10.2337/diacare.26.12.3230>.

Long, G.H. et al. (2015) 'Healthy behaviours and 10-year incidence of diabetes: A population cohort study', *Preventive Medicine*, 71, pp. 121–127. Available at: <https://doi.org/10.1016/j.ypmed.2014.12.013>.

Luchsinger, J.A. et al. (2017) 'Metformin, Lifestyle Intervention, and Cognition in the Diabetes Prevention Program Outcomes Study', *Diabetes Care*, 40(7), pp. 958–965. Available at: <https://doi.org/10.2337/dc16-2376>.

Malik, V.S. et al. (2010) 'Sugar-Sweetened Beverages and Risk of Metabolic Syndrome and Type 2 Diabetes: A meta-analysis', *Diabetes Care*, 33(11), pp. 2477–2483. Available at: <https://doi.org/10.2337/dc10-1079>.

Malik, V.S. et al. (2013) 'Sugar-sweetened beverages and weight gain in children and adults: a systematic review and meta-analysis', *American Journal of Clinical Nutrition*, 98(4), pp. 1084–1102. Available at: <https://doi.org/10.3945/ajcn.113.058362>.

Mann, J. et al. (2016) 'Dietary guidelines on trial: the charges are not evidence based', *The Lancet*, 388(10047), pp. 851–853. Available at: [https://doi.org/10.1016/S0140-6736\(16\)31278-8](https://doi.org/10.1016/S0140-6736(16)31278-8).

Matti Uusitupa (2009) 'Ten-Year Mortality and Cardiovascular Morbidity in the Finnish Diabetes Prevention Study—Secondary Analysis of the Randomized Trial', *PLoS ONE*, 4(5). Available at: <https://doi.org/doi:10.1371/journal.pone.0005656>.

Nathan, D.M. et al. (2007) 'Impaired Fasting Glucose and Impaired Glucose Tolerance:

Implications for care', *Diabetes Care*, 30(3), pp. 753–759. Available at:
<https://doi.org/10.2337/dc07-9920>.

'NICE - Type 2 diabetes: prevention in people at high risk | Guidance and guidelines' (no date). NICE. Available at: <https://www.nice.org.uk/guidance/ph38>.

'Nutrition Recommendations and Interventions for Diabetes: A position statement of the American Diabetes Association' (2008) *Diabetes Care*, 31(Supplement 1), pp. S61–S78. Available at: <https://doi.org/10.2337/dc08-S061>.

'Obesity: identification, assessment and management | Guidance and guidelines | NICE' (no date). Available at: <https://www.nice.org.uk/guidance/cg189>.

Orozco, L.J. et al. (1996) 'Exercise or exercise and diet for preventing type 2 diabetes mellitus', in *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd. Available at: <https://doi.org/10.1002/14651858.CD003054.pub3>.

Pan, A. et al. (2011) 'Red meat consumption and risk of type 2 diabetes: 3 cohorts of US adults and an updated meta-analysis', *American Journal of Clinical Nutrition*, 94(4), pp. 1088–1096. Available at: <https://doi.org/10.3945/ajcn.111.018978>.

Pan, X.-R. et al. (1997) 'Effects of Diet and Exercise in Preventing NIDDM in People With Impaired Glucose Tolerance: The Da Qing IGT and Diabetes Study', *Diabetes Care*, 20(4), pp. 537–544. Available at: <https://doi.org/10.2337/diacare.20.4.537>.

'Public Health England - Diabetes prevention programmes: evidence review' (2015). Public Health England. Available at:
<https://www.gov.uk/government/publications/diabetes-prevention-programmes-evidence-review>.

Rajul Parikh, Annie Mathai, Shefali Parikh, G. Chandra Sekhar, Ravi Thomas (no date) 'Understanding and using sensitivity, specificity and predictive values', *Indian Journal of Ophthalmology* [Preprint]. Available at:
http://go.galegroup.com.ezproxy4.lib.le.ac.uk/ps/retrieve.do?tabID=T002&resultListType=RESULT_LIST&searchResultsType=SingleTab&searchType=AdvancedSearchForm¤tPosition=3&docId=GALE%7CA173264871&docType=Article&sort=Relevance&contentSegment=&prodId=EAIM&contentSet=GALE%7CA173264871&searchId=R1&userGroupName=leicester&inPS=true.

Ramachandran, A. et al. (2006) 'The Indian Diabetes Prevention Programme shows that lifestyle modification and metformin prevent type 2 diabetes in Asian Indian subjects with impaired glucose tolerance (IDPP-1)', *Diabetologia*, 49(2), pp. 289–297. Available at: <https://doi.org/10.1007/s00125-005-0097-z>.

'Reduction in the Incidence of Type 2 Diabetes with Lifestyle Intervention or Metformin' (2002a) *New England Journal of Medicine*, 346(6), pp. 393–403. Available at: <https://doi.org/10.1056/NEJMoa012512>.

'Reduction in the Incidence of Type 2 Diabetes with Lifestyle Intervention or Metformin' (2002b) *New England Journal of Medicine*, 346(6), pp. 393–403. Available at: <https://doi.org/10.1056/NEJMoa012512>.

Schulze, M.B. (2004) 'Sugar-Sweetened Beverages, Weight Gain, and Incidence of Type 2 Diabetes in Young and Middle-Aged Women', *JAMA*, 292(8). Available at: <https://doi.org/10.1001/jama.292.8.927>.

Schwingshackl, L. et al. (2017) 'Food groups and risk of type 2 diabetes mellitus: a systematic review and meta-analysis of prospective studies', *European Journal of Epidemiology*, 32(5), pp. 363–375. Available at: <https://doi.org/10.1007/s10654-017-0246-y>.

'Screening for type 2 diabetes: literature review and economic modelling' (2007) *Clinical Governance: An International Journal*, 12(4). Available at: <https://doi.org/10.1108/cgij.2007.24812dae.003>.

Sedentary Behaviors and Subsequent Health Outcomes in Adults- ClinicalKey (no date a). Available at: <https://www-clinicalkey-com.ezproxy4.lib.le.ac.uk/#!/content/journal/1-s2.0-S0749379711003126>.

Sedentary Behaviors and Subsequent Health Outcomes in Adults- ClinicalKey (no date b). Available at: <https://www-clinicalkey-com.ezproxy4.lib.le.ac.uk/#!/content/journal/1-s2.0-S0749379711003126>.

Stefan, N. et al. (2015) 'A high-risk phenotype associates with reduced improvement in glycaemia during a lifestyle intervention in prediabetes', *Diabetologia*, 58(12), pp. 2877–2884. Available at: <https://doi.org/10.1007/s00125-015-3760-z>.

Steven N Blair (2009) 'Physical inactivity: the biggest public health problem of the 21st century', *British Journal of Sports Medicine*, 43, pp. 1–2. Available at: <http://bjsm.bmj.com/content/43/1/1.full>.

Sweeting, A.N. et al. (2016) 'Gestational Diabetes Mellitus in Early Pregnancy: Evidence for Poor Pregnancy Outcomes Despite Treatment', *Diabetes Care*, 39(1), pp. 75–81. Available at: <https://doi.org/10.2337/dc15-0433>.

'The 10-Year Cost-Effectiveness of Lifestyle Intervention or Metformin for Diabetes Prevention: An intent-to-treat analysis of the DPP/DPPOS' (2012) *Diabetes Care*, 35(4), pp. 723–730. Available at: <https://doi.org/10.2337/dc11-1468>.

Thomas Yates (2012) 'Walking away from type 2 diabetes: trial protocol of a cluster randomised controlled trial evaluating a structured education programme in those at high risk of developing type 2 diabetes', *BMC Family Practice*, 13. Available at: <https://doi.org/doi:10.1186/1471-2296-13-46>.

Tseng, E., Yeh, H.-C. and Maruthur, N.M. (2017) 'Metformin Use in Prediabetes Among U.S. Adults, 2005–2012', *Diabetes Care*, 40(7), pp. 887–893. Available at: <https://doi.org/10.2337/dc16-1509>.

Tuomilehto, J. et al. (2001) 'Prevention of Type 2 Diabetes Mellitus by Changes in Lifestyle among Subjects with Impaired Glucose Tolerance', *New England Journal of Medicine*, 344(18), pp. 1343–1350. Available at: <https://doi.org/10.1056/NEJM200105033441801>.

'Type 2 diabetes: prevention in people at high risk | Guidance and guidelines | NICE' (no date). Available at:
<https://www.nice.org.uk/guidance/ph38/documents/preventing-type-2-diabetes-risk-identification-and-interventions-for-individuals-at-high-risk-draft-guidance-consultation>.

Vita, P. et al. (2016) 'Type 2 diabetes prevention in the community: 12-Month outcomes from the Sydney Diabetes Prevention Program', *Diabetes Research and Clinical Practice*, 112, pp. 13–19. Available at: <https://doi.org/10.1016/j.diabres.2015.11.010>.

Webb, D.R. et al. (2011) 'Screening for diabetes using an oral glucose tolerance test within a western multi-ethnic population identifies modifiable cardiovascular risk: the ADDITION-Leicester study', *Diabetologia*, 54(9), pp. 2237–2246. Available at: <https://doi.org/10.1007/s00125-011-2189-2>.

Wu, Y. et al. (2015) 'Fruit and vegetable consumption and risk of type 2 diabetes mellitus: A dose-response meta-analysis of prospective cohort studies', *Nutrition, Metabolism and Cardiovascular Diseases*, 25(2), pp. 140–147. Available at: <https://doi.org/10.1016/j.numecd.2014.10.004>.

Yates, T. et al. (2011) 'Stand up for your health: Is it time to rethink the physical activity paradigm?', *Diabetes Research and Clinical Practice*, 93(2), pp. 292–294. Available at: <https://doi.org/10.1016/j.diabres.2011.03.023>.