

Diabetes

eUpdate – December 2024



Figure 1 NHS Lanarkshire Logo

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1. Elbarbary NS, Ismail EA, El-Hamamsy MH, Ibrahim MZ, Elkholy AA. [The DPP-4 inhibitor sitagliptin improves glycaemic control and early-stage diabetic nephropathy in adolescents with type 1 diabetes using the MiniMed 780G advanced hybrid closed-loop system: a randomised controlled trial.](#) Diabetologia. . 2024;67(12):2637-2649.
2. Dunne F, Newman C, Alvarez-Iglesias A, et al. [Metformin and small for gestational age babies: findings of a randomised placebo-controlled clinical trial of metformin in gestational diabetes \(EMERGE\).](#) Diabetologia. . 2024;67(12):2660-2666.

3. Carrillo BJP, Cope E, Gurel S, et al. [Morning exercise and pre-breakfast metformin interact to reduce glycaemia in people with type 2 diabetes: a randomized crossover trial.](#) J Physiol (Lond). . 2024;602(23):6491-6506.
4. Imaoka S, Kudou G, Tsugiyama K, et al. [Efficacy of Belt Electrode Skeletal Muscle Electrical Stimulation in the Postoperative Rest Period in Patients with Diabetes who Have Undergone minor Amputations: A Randomized Controlled Trial.](#) Int. j. low. extrem. wounds. . 2024;23(4):560-567.
5. Karunathilaka N, Parker C, Lazzarini PA, et al. [Cognitive changes in people with diabetes with lower extremity complications compared to people with diabetes without lower extremity complications: a systematic review and meta-analysis.](#) BMC Endocr Disord. . 2024;24(1):258.
6. Zhao X, Forbes A, Ghazaleh HA, et al. [Interventions and behaviour change techniques for improving physical activity level in working-age people \(18-60years\) with type 2 diabetes: A systematic review and network meta-analysis.](#) Int J Nurs Stud. . 2024:160
7. Can S, Yildirim Usta Y, Yildiz S, Tayfun K. [The effect of lavender and rosemary aromatherapy application on cognitive functions, anxiety, and sleep quality in the elderly with diabetes.](#) Explore (NY). . 2024;20(6):103033.
8. Opazo-Diaz E, Montes-de-Oca-Garcia A, Galan-Mercant A, Marin-Galindo A, Corral-Perez J, Ponce-Gonzalez JG. [Characteristics of High-Intensity Interval Training Influence Anthropometrics, Glycemic Control, and Cardiorespiratory Fitness in Type 2 Diabetes Mellitus: A Systematic Review and Meta-Analysis of Randomized Controlled Trials.](#) Sports Med. . 2024;54(12):3127-3149.

9. Xue H, Zou Y, Zhang S. [Effects of concurrent aerobic and strength training in patients with type 2 diabetes: Bayesian pairwise and dose-response meta-analysis](#). *BMJ open diabetes res. care.* . 2024;12(6).
10. Ahn JA, Kim EM, Lee JE, Kim KA. [Diabetes Education Program for Nursing Students: A Systematic Review and Meta-Analysis](#). *Nurs. open.* . 2024;11(12):e70105.
11. Gonzalez-Devesa D, Sanchez-Lastra MA, Perez-Fernandez P, Diz-Gomez JC, Ayan-Perez C. [The effect of physical activity on sleep quality in people with diabetes: systematic review and meta-analysis](#). *Sleep Breath.* . 2024;29(1):23.
12. Lin Y, Leith D, Abbott M, et al. [Diabetes platform-enhanced phenotyping of patients with diabetes for precision diagnosis, prognosis and treatment: study protocol for a cluster-randomised controlled study in Tayside, Scotland](#). *BMJ Open.* . 2024;14(11):e086594.
13. Yang R, Han W, Zheng W, et al. [Administration of a diabetes-specific formula can improve postprandial glyceemic control and delay insulin use in gestational diabetes mellitus: A randomized controlled trial from two centers](#). *Clin Nutr.* . 2024;43(12):265-274.
14. Sun R, Wang J, Li M, et al. [Association of Insulin Resistance With Cardiovascular Disease and All-Cause Mortality in Type 1 Diabetes: Systematic Review and Meta-analysis](#). *Diabetes Care.* . 2024;47(12):2266-2274.
15. Asimakopoulos G, Pergialiotis V, Antsaklis P, Theodora M, Loutradis D, Daskalakis G. [Effect of dietary myo-inositol supplementation on the insulin](#)

[resistance and the prevention of gestational diabetes mellitus: an open-label, randomized controlled trial.](#) Arch Gynecol Obstet. . 2024;310(4):1895-1903.

16. Ware J, Allen JM, Boughton CK, et al. [Eighteen-Month Hybrid Closed-Loop Use in Very Young Children With Type 1 Diabetes: A Single-Arm Multicenter Trial.](#) Diabetes Care. . 2024;47(12):2189-2195.
17. Berlanda G, Telo GH, Gossenheimer AN, et al. [Impact of Syringe and Needle Reuse on the Clinical Outcomes of Patients With Type 2 Diabetes: A 12-Week Randomized Clinical Trial.](#) Diabetes Care. . 2024;47(12):2146-2154.
18. Berohan ND, Alias H, Ishak S, et al. [4 vs 7 points self-monitoring blood glucose in gestational diabetes mellitus on diet modification: randomised clinical trial in a single tertiary centre in Malaysia.](#) Arch Gynecol Obstet. . 2024;310(4):1959-1965.
19. Simmons D, Immanuel J, Hague WM, et al. [Regression From Early GDM to Normal Glucose Tolerance and Adverse Pregnancy Outcomes in the Treatment of Booking Gestational Diabetes Mellitus Study.](#) Diabetes Care. . 2024;47(12):2079-2084.
20. Lee M, Hamad A, Azarian M, et al. [Efficacy and Feasibility of Intradialytic Plantar Electrical Stimulation in Patients With Diabetes: A Randomized Double-Blind Controlled Trial.](#) Diabetes Care. . 2024;47(12):2205-2213.
21. Cooper ZW, O'Shields J, Ali MK, Chwastiak L, Johnson LCM. [Effects of Integrated Care Approaches to Address Co-occurring Depression and Diabetes: A Systematic Review and Meta-analysis.](#) Diabetes Care. . 2024;47(12):2291-2304.

22. Simmons D, Immanuel J, Hague WM, et al. [Perinatal Outcomes in Early and Late Gestational Diabetes Mellitus After Treatment From 24-28 Weeks' Gestation: A TOBOGM Secondary Analysis](#). *Diabetes Care*. . 2024;47(12):2093-2101.
23. Renard E, Weinstock RS, Aleppo G, et al. [Efficacy and Safety of a Tubeless AID System Compared With Pump Therapy With CGM in the Treatment of Type 1 Diabetes in Adults With Suboptimal Glycemia: A Randomized, Parallel-Group Clinical Trial](#). *Diabetes Care*. . 2024;47(12):2248-2257.
24. Matsuoka N, Nakazawa D, Nishio S, et al. [Effects of canagliflozin on brain natriuretic peptide levels in patients with type 2 diabetes on peritoneal dialysis in Japan: protocol for a multicentre, prospective, randomised controlled trial \(CARD-PD trial\)](#). *BMJ Open*. . 2024;14(11):e084846.
25. Moghe R, Zhu M, Staab E, et al. [The Impact of Implementing Virtual Diabetes Group Visits on Staff and Provider Wellbeing, Job Satisfaction, and Burnout: A Mixed Methods Analysis](#). *J Eval Clin Pract*. . 2025;31(1):e14238.
26. Bersch-Ferreira AC, Machado RHV, Oliveira JS, et al. [A Nutritional Strategy Based on Multiple Components for Glycemic Control in Type 2 Diabetes: A Multicenter Randomized Controlled Clinical Trial](#). *Nutrients*. . 2024;16(22).
27. Nkhumeleni Z, Phoswa WN, Mokgalaboni K. [Purslane Ameliorates Inflammation and Oxidative Stress in Diabetes Mellitus: A Systematic Review](#). *Int. j. mol. sci.*. . 2024;25(22).
28. Hong SH, Kwon SC, Lee JH, Moon S, Kim JI. [Influence of Diabetes Mellitus on Postoperative Complications After Total Knee Arthroplasty: A Systematic Review and Meta-Analysis](#). *Medicina (Kaunas)*. . 2024;60(11).

29. Saadati S, de Courten M, Deceneux C, et al. [Carnosine Supplementation Has No Effect on Inflammatory Markers in Adults with Prediabetes and Type 2 Diabetes: A Randomised Controlled Trial.](#) *Nutrients.* . 2024;16(22).
30. Jianghua H, Feier M, Dong Z, Qiuying L, Ya W, Yan W. [Meta-analysis of the effects of different exercise modes on cardiac function and peak oxygen uptake in patients with type 2 diabetes mellitus.](#) *Front Physiol.* . 2024;15
31. Amante DJ, Shenette L, Wainaina S, et al. [Digital Health Tools and Behavioral Strategies to Increase Engagement With Diabetes Self-Management Education and Support: Design and Feasibility of DM-BOOST.](#) *Sci Diabetes Self Manag Care.* . 2024;50(6):497-509.
32. Wilmoth S, Wilhite B, Highwood K, et al. [Participants' Perspectives on Diabetes Self-Management Programming at Church: Faith-Placed Versus Faith-Based Approach.](#) *Sci Diabetes Self Manag Care.* . 2024;50(6):469-483.
33. Max F, Gazova A, Smaha J, et al. [High Doses of Vitamin D and Specific Metabolic Parameters in Type 2 Diabetes Patients: Systematic Review.](#) *Nutrients.* . 2024;16(22).
34. Bolt J, Carvalho V, Lin K, Lee SJ, Inglis C. [Systematic review of guideline recommendations for older and frail adults with type 2 diabetes mellitus.](#) *Age Ageing.* . 2024;53(11).
35. Barre DE, Mizier-Barre KA, Griscti O. [Various apolipoprotein E genotypes relate to responsiveness to flaxseed lignan complex in older persons with type 2 diabetes mellitus.](#) *Endocr Regul.* . 2024;58(1):220-224.

36. Defante MLR, Mendes BX, de Souza MM, et al. [Tight Versus Liberal Blood Glucose Control in Patients With Diabetes in the ICU: A Meta-Analysis of Randomized Controlled Trials](#). J Intensive Care Med. . 2024;39(12):1250-1255.
37. Tu Q, Lin S, Hyun K, et al. [The effects of multidisciplinary collaborative care on cardiovascular risk factors among patients with diabetes in primary care settings: A systematic review and meta-analysis](#). Prim Care Diabetes. . 2024;18(4):381-392.
38. Liu Q, Song H, Zhang S, et al. [Efficacy of using telecare services for community-dwelling people with diabetes: A systematic review and meta-analysis](#). Prim Care Diabetes. . 2024;18(4):393-401.
39. Bhandari R, Lukas K, Lee K, et al. [Feasibility of telehealth exercise and nicotinamide riboside supplementation in survivors of childhood cancer at risk for diabetes: A pilot randomized controlled trial](#). Pediatr Blood Cancer. . 2025;72(1):e31369.
40. Morales-Brown LA, Perez Algorta G, Salifu Y. [Understanding Experiences of Diabetes Distress: A Systematic Review and Thematic Synthesis](#). J Diabetes Res. . 2024;2024
41. Stefanou MI, Theodorou A, Malhotra K, et al. [Risk of major adverse cardiovascular events and stroke associated with treatment with GLP-1 or the dual GIP/GLP-1 receptor agonist tirzepatide for type 2 diabetes: A systematic review and meta-analysis](#). Eur Stroke J. . 2024;9(3):530-539.
42. Mondal UK, Ahmed KY, Thapa S, et al. [A systematic review of the major risk factors for type two diabetes among Aboriginal Australians](#). BMC Public Health. . 2024;24(1):3174.

43. Shapiro JB, Vesco AT, Carroll MS, Weissberg-Benchell J. [Psychometric Properties of the Automated Insulin Delivery: Benefits and Burdens Scale for Adults with Type 1 Diabetes](#). *Diabetes Technol Ther.* . 2024;26(11):842-850.
44. Ghazaei H, Raouf Sheibani A, Mahdian H, Gholami S, Askari VR, Baradaran Rahimi V. [Ellagic acid as potential therapeutic compound for diabetes and its complications: a systematic review from bench to bed](#). *Naunyn Schmiedebergs Arch Pharmacol.* . 2024;397(12):9345-9366.
45. Fan ZH, Xu J, Ge MW, et al. [Suicide death, suicidal ideation and suicide attempt in patients with diabetes: A systematic review and meta-analysis](#). *J Adv Nurs.* . 2024;80(10):4050-4073.
46. Liu L, Shi H, Xie M, Sun Y, Nahata MC. [Efficacy and safety of tirzepatide versus placebo in overweight or obese adults without diabetes: a systematic review and meta-analysis of randomized controlled trials](#). *Int J Clin Pharm.* . 2024;46(6):1268-1280.
47. Afshani MR, Torfi E, Akiash N, Jahanshahi A, Mohamadi A, Sherafat O. [Effect of empagliflozin on left ventricular volumes in type 2 diabetes or prediabetes heart failure patients with reduced ejection fraction](#). *Acta Cardiol.* . 2024;79(4):419-425.
48. Lu H, Shi X, Han L, Liu X, Jiang Q. [Association between nickel exposure and diabetes risk: an updated meta-analysis of observational studies](#). *Front. public health.* . 2024;12

49. Campbell JA, Linde S, Walker RJ, Egede LE. [Relationship Between Delay Discounting and Clinical Diabetes Outcomes: A Systematic Review](#). J Gen Intern Med. . 2024;39(15):3052-3063.
50. Kwan BM, Dickinson LM, Dailey-Vail J, et al. [Comparative Effectiveness of Patient-Driven versus Standardized Diabetes Shared Medical Appointments: A Pragmatic Cluster Randomized Trial](#). J Gen Intern Med. . 2024;39(15):2970-2979.
51. Kavanagh ME, Back S, Chen V, et al. [The Portfolio Diet and HbA1c in Adults Living with Type 2 Diabetes Mellitus: A Patient-Level Pooled Analysis of Two Randomized Dietary Trials](#). Nutrients. . 2024;16(17).
52. Fitch KV, Zanni MV, Manne-Goehler J, et al. [Diabetes Risk Factors in People With HIV Receiving Pitavastatin Versus Placebo for Cardiovascular Disease Prevention : A Randomized Trial](#). Ann Intern Med. . 2024;177(11):1449-1461.
53. Zhu D, Herrington WG. [In adults with BMI \$\geq\$ 27 kg/m² and CVD, but without diabetes, semaglutide reduced MACE, regardless of baseline HbA1c level](#). Ann Intern Med. . 2024;177(11):JC122.
54. Tang S, Tan X. [Does the intervention for adhesive capsulitis in patients with diabetes differ from that for patients without diabetes?: A systematic review](#). Medicine (Baltimore). . 2024;103(46):e40238.
55. Etchegaray-Morales I, Mendoza-Pinto C, Munguia-Realpozo P, et al. [Risk of diabetes mellitus in systemic lupus erythematosus: systematic review and meta-analysis](#). Rheumatology (Oxford). . 2024;63(8):2047-2055.

56. Sugimoto T, Araki A, Fujita H, et al. [Multidomain Intervention Trial for Preventing Cognitive Decline among Older Adults with Type 2 Diabetes: J-MIND-Diabetes](#). JPAD. . 2024;11(6):1604-1614.
57. Sharma R, Upadhyay B, Lal N, Sagar R, Jain V. [Carbohydrate Counting vs. Fixed Meal Plan in Indian Children with Type 1 Diabetes Mellitus: A Randomized Controlled Trial](#). Indian J Pediatr. . 2024;91(12):1232-1237.
58. Bo S, Dan M, Li W, Chen C. [The regulatory mechanism of natural polysaccharides in type 2 diabetes mellitus treatment](#). Drug Discov Today. . 2024;29(11):104182.
59. Missous G, Van Panhuys N. [Circulating interleukin-33 levels in obesity and type 2 diabetes: a systematic review and meta-analysis](#). Am J Physiol Endocrinol Metab. . 2024;327(6):E686-E699.
60. Asadi Z, Safari-Faramani R, Aghaz F, Vaisi-Raygani A, Jalilian S. [Plasma Glycated CD59 and Gestational Diabetes Mellitus: A Systematic Review](#). Endocrinol. diabetes metab.. . 2024;7(6):e70013.
61. Maghalian M, Mirghafourvand M. [Impact of gestational diabetes mellitus on women's sexual function: a systematic review and meta-analysis](#). BMC Endocr Disord. . 2024;24(1):245.
62. Silveira LL, Sarandy MM, Novaes RD, Morais-Santos M, Goncalves RV. [OxInflammation Affects Transdifferentiation to Myofibroblasts, Prolonging Wound Healing in Diabetes: A Systematic Review](#). Int. j. mol. sci.. . 2024;25(16).

63. Thavam T, Hong M, Devlin RA, Clemens KK, Sarma S. [Does financial incentive for diabetes management in the primary care setting reduce avoidable hospitalizations and mortality in high-income countries? A systematic review.](#) Health Policy. . 2024;150
64. Cheong KY, Bergin SM, Munteanu SE, Perrin BM, Landorf KB. [Factors associated with the development of recurrent and contralateral Charcot neuroarthropathy in individuals with diabetes mellitus: A scoping review.](#) J. foot ankle res.. . 2024;17(4):e70016.
65. Seaquist ER, Phillips LS, Ghosh A, et al. [Glycemia reduction in type 2 diabetes-Hypoglycemia outcomes: A randomized clinical trial.](#) PLoS ONE. . 2024;19(11):e0309907.
66. Drenthen LCA, Ajie M, de Baaij JHF, Tack CJ, de Galan BE, Stienstra R. [Magnesium Supplementation Modulates T-cell Function in People with Type 2 Diabetes and Low Serum Magnesium Levels.](#) J Clin Endocrinol Metab. . 2024;109(12):e2240-e2245.
67. Redling D, Bialak S, El Ghormli L, Chernausk SD, Jones K, Tryggestad JB. [Circulating MicroRNAs as Predictors of Beta Cell Function in Youth-onset Type 2 Diabetes: The TODAY Study.](#) J Clin Endocrinol Metab. . 2024;109(12):3027-3035.
68. Moreira FD, Mendes GF, Nascimento GDM, Reis CEG, Gallassi AD, Welker AF. [Postprandial hyperglycemia in patients with type 2 diabetes is reduced by raw insoluble fiber: A randomized trial.](#) Nutr Metab Cardiovasc Dis. . 2024;34(12):2673-2679.

69. Zhang K, Zhao A, Wang Z, et al. [Time-Efficacy Relationship of Semaglutide in the Treatment of Type 2 Diabetes Mellitus: A Model-Based Meta-Analysis](#). Clin Pharmacokinet. . 2024;63(12):1679-1688.
70. Miranda-Tueros M, Ramirez-Pena J, Cabanillas-Lazo M, Paz-Ibarra JL, Pinedo-Torres I. [Effects of aerobic exercise on components of the metabolic syndrome in older adults with type 2 diabetes mellitus: systematic review and meta-analysis. \[in Spanish, English\]](#) Rev. peru. med. exp. salud publica. . 2024;41(2):146-155.
71. Tuersun A, Hou G, Cheng G. [Efficacy and safety of the combination or monotherapy with GLP-1 receptor agonists and SGLT-2 inhibitors in Type 2 diabetes mellitus: An update systematic review and meta-analysis](#). Am J Med Sci. . 2024;368(6):579-588.
72. Cox ER, Gajanand T, Keating SE, et al. [Effect of low-volume combined aerobic and resistance high-intensity interval training on vascular health in people with type 2 diabetes: a randomised controlled trial](#). Eur J Appl Physiol. . 2024;124(9):2819-2833.
73. Hellstrand Tang U, Tranberg R, Sundberg L, Scandurra I. [How do patients and healthcare professionals experience foot examinations in diabetes care? - A randomised controlled study of digital foot examinations versus traditional foot examinations](#). BMC Health Serv Res. . 2024;24(1):1387.
74. Mashaba RG, Phoswa W, Maimela E, Lebelo S, Modjadji P, Mokgalaboni K. [Systematic review and meta-analysis assessing the status of carotid intima-media thickness and lipid profiles in type 2 diabetes mellitus](#). BMJ Open. . 2024;14(11):e087496.

75. Georgaki MN, Tsokkou S, Keramas A, Papamitsou T, Karachrysafi S, Kazakis N. [Chromium supplementation and type 2 diabetes mellitus: an extensive systematic review](#). Environ Geochem Health. . 2024;46(12):515.
76. Ewers B, Blond MB, Bruun JM, Vilsboll T. [Comparing the Effectiveness of Different Dietary Educational Approaches for Carbohydrate Counting on Glycemic Control in Adults with Type 1 Diabetes: Findings from the DIET-CARB Study, a Randomized Controlled Trial](#). Nutrients. . 2024;16(21).
77. Al Husaini M, Searle A, Chuter V. [The composition and mode of delivery of diabetes-related footcare education provided by podiatrists in Australia and Aotearoa \(New Zealand\): A systematic review](#). J. foot ankle res.. . 2024;17(4):e70009.
78. Khalid S, Bashir S, Mehboob R, et al. [Effects of magnesium and potassium supplementation on insomnia and sleep hormones in patients with diabetes mellitus](#). Front Endocrinol (Lausanne). . 2024;15
79. Fallah Z, Vasmehjani AA, Aghaei S, et al. [Cardiometabolic risk factors are affected by interaction between FADS1 rs174556 variant and dietary vegetable oils in patients with diabetes: a randomized controlled trial](#). Sci. rep.. . 2024;14(1):27531.
80. Sharifat R, Borazjani F, Araban M, Pakpour AH, Angali KA, Aiiashi S. [Nutritional education on health beliefs, metabolic profiles, and quality of life among high-risk pregnant women for gestational diabetes mellitus: a randomized controlled trial](#). Sci. rep.. . 2024;14(1):27712.
81. Li M, Sun H, Chen H, Ma W, Li Y. [Type 2 diabetes and bone mineral density: A meta-analysis and systematic review](#). Medicine (Baltimore). . 2024;103(45):e40468.

82. Khaliq A, Badshah H, Shah Y, et al. [The effect of ertugliflozin in patients with nonalcoholic fatty liver disease associated with type 2 diabetes mellitus: A randomized controlled trial.](#) *Medicine (Baltimore)*. . 2024;103(45):e40356.
83. Parsaei M, Dashtkoohi M, Haddadi M, Rashidian P, Mansouri Z, Hantoushzadeh S. [The association of serum total bile acid levels with gestational diabetes mellitus: a systematic review and meta-analysis.](#) *BMC Pregnancy Childbirth*. . 2024;24(1):744.
84. Hicks R, Dune T, Gu V, Simmons D, MacMillan F. [A systematic literature review on how consumer and community involvement have shaped and influenced pre-pregnancy care interventions for women with diabetes.](#) *BMC Pregnancy Childbirth*. . 2024;24(1):748.
85. Xia J, Yin S, Yu J, et al. [Improvement in Glycolipid Metabolism Parameters After Supplementing Fish Oil-Derived Omega-3 Fatty Acids Is Associated with Gut Microbiota and Lipid Metabolites in Type 2 Diabetes Mellitus.](#) *Nutrients*. . 2024;16(21).
86. Beulens JWW, Reichelt F, Remmelzwaal S, et al. [Type 2 diabetes complications in ethnic minority compared with European host populations: a systematic review and meta-analysis.](#) *BMJ open diabetes res. care*. . 2024;12(6).
87. Torres-Torres J, Monroy-Munoz IE, Perez-Duran J, et al. [Cellular and Molecular Pathophysiology of Gestational Diabetes.](#) *Int. j. mol. sci.*. . 2024;25(21).

88. Detopoulou P, Voulgaridou G, Seva V, et al. [Dietary Restriction of Advanced Glycation End-Products \(AGEs\) in Patients with Diabetes: A Systematic Review of Randomized Controlled Trials](#). *Int. j. mol. sci.* . 2024;25(21).
89. Chen Y, Jin X, Chen G, Wang R, Tian H. [Dose-Response Relationship Between Physical Activity and the Morbidity and Mortality of Cardiovascular Disease Among Individuals With Diabetes: Meta-Analysis of Prospective Cohort Studies](#). *JMIR Public Health Surveill.* . 2024;10
90. He J, Li Z, Li R, Ma X, Sun X. [Plasma Lipidomic Profiles Improve upon Traditional Risk Factors for the Prediction of Arterial Stiffness Among Patients with Type 2 Diabetes Mellitus: A Randomized, Placebo-Controlled Trial](#). *Nutrients.* . 2024;16(21).
91. Jeppesen PB, Dorner A, Yue Y, et al. [Beneficial Effects of a Freeze-Dried Kale Bar on Type 2 Diabetes Patients: A Randomized, Double-Blinded, Placebo-Controlled Clinical Trial](#). *Nutrients.* . 2024;16(21).
92. Westergaard L, Alifrangis L, Buckley ST, et al. [Pharmacokinetic Properties of a Once-Weekly Fixed-Ratio Combination of Insulin Icodec and Semaglutide Compared with Separate Administration of Each Component in Individuals with Type 2 Diabetes Mellitus](#). *Clin Drug Invest.* . 2024;44(11):849-861.
93. Dutta D, Kamrul-Hasan ABM, Nagendra L, Bhattacharya S. [Efficacy and Safety of Novel Twincretin Tirzepatide, a Dual GIP/GLP-1 Receptor Agonist, as an Anti-obesity Medicine in Individuals Without Diabetes: A Systematic Review and Meta-analysis](#). *touchREV Endocrinol.* . 2024;20(2):72-80.
94. Kyrkou C, Athanasiadis AP, Chourdakis M, et al. [Are Maternal Dietary Patterns During Pregnancy Associated with the Risk of Gestational Diabetes](#)

[Mellitus? A Systematic Review of Observational Studies.](#) *Nutrients.* .
2024;16(21).

95. Costa Hoffmeister M, Hammel Lovison V, Priesnitz Friedrich E, da Costa Rodrigues T. [Ambulatory blood pressure monitoring and vascular complications in patients with type 1 diabetes mellitus - Systematic review and meta-analysis of observational studies.](#) *Diabetes Res Clin Pract.* . 2024;217
96. Dihoum A, Brown AJ, McCrimmon RJ, Lang CC, Mordi IR. [Dapagliflozin, inflammation and left ventricular remodelling in patients with type 2 diabetes and left ventricular hypertrophy.](#) *BMC Cardiovasc Disord.* . 2024;24(1):356.
97. Korde SB, Pillewan SR, Dumbre SR, et al. [Significance of Bacillus Calmette-Guerin \(BCG\) vaccine intervention for patients with Type 1 Diabetes \(T1D\): A systematic review and meta-analysis.](#) *Diabetes Metab Syndr.* .
2024;18(8):103102. doi:10.1016/j.dsx.2024.103102
98. Neuman V, Plachy L, Drnkova L, et al. [Low-carbohydrate diet in children and young people with type 1 diabetes: A randomized controlled trial with cross-over design.](#) *Diabetes Res Clin Pract.* . 2024;217
99. Kibirige D, Olum R, Kyazze AP, et al. [Differential manifestation of type 2 diabetes in Black Africans and White Europeans with recently diagnosed type 2 diabetes: A systematic review.](#) *Diabetes Metab Syndr.* . 2024;18(8):103115.
100. Schenaarts L, Hendriks FK, Fuchs CJ, Sluijsmans WE, Snijders T, van Loon LJ. [A Single Sauna Session Does Not Improve Postprandial Blood Glucose Handling in Individuals with Type 2 Diabetes Mellitus: A Cross-Over, Randomized, Controlled Trial.](#) *Exp Clin Endocrinol Diabetes.* .
2024;132(11):622-630.

101. Lau D, Manca DP, Singh P, et al. [The effectiveness of continuous glucose monitoring with remote telemonitoring-enabled virtual educator visits in adults with non-insulin dependent type 2 diabetes: A randomized trial.](#) Diabetes Res Clin Pract. . 2024;217
102. Amin U, Adnan QU, Ahmad T, Farooqui SI. [Exploring the Synergistic Effects of Concurrent Exercise for Managing Type-II Diabetes Mellitus: A Meta-Analysis.](#) J Coll Physicians Surg Pak. . 2024;34(11):1355-1363.
103. Mozaffari H, Madani Civi R, Askari M, et al. [The impact of food-based dietary strategies on achieving type 2 diabetes remission: A systematic review.](#) Diabetes Metab Syndr. . 2024;18(8):103096.
104. Hosseini H, Bagherniya M, Sahebkar A, Iraj B, Majeed M, Askari G. [The effect of curcumin-piperine supplementation on lipid profile, glycemic index, inflammation, and blood pressure in patients with type 2 diabetes mellitus and hypertriglyceridemia.](#) Phytother Res. . 2024;38(11):5150-5161.
105. Mu Y, Huang J, Yang J, et al. [Ethnic differences in the effects of lifestyle interventions on adverse pregnancy outcomes among women with gestational diabetes mellitus: A systematic review and meta-analysis.](#) Diabetes Res Clin Pract. . 2024;217
106. Parr EB, Radford BE, Hall RC, et al. [Comparing the effects of time-restricted eating on glycaemic control in people with type 2 diabetes with standard dietetic practice: A randomised controlled trial.](#) Diabetes Res Clin Pract. . 2024;217

107. Weng J, Ren H, Guo Q, Huang K, Ding L. [Efficacy and safety of hyperbaric oxygen therapy for diabetes peripheral neuropathy: A systematic review and meta-analysis](#). *Medicine (Baltimore)*. . 2024;103(36):e39699.
108. Lewis G, Irving G, Wilding J, Hardy K. [Evaluating the impact of differing completion rates of a face-to-face DIABETES self-management education programme on Patient Reported Outcome measures \(DIABETES PRO\): A feasibility trial protocol](#). *Diabet Med*. . 2024;41(12):e15430.
109. Zainudin AM, Rasool AHG, Yaacob NM, Muhamad R, Mohamed WMIW. [The effect of USM-IAM-based counselling vs standard counselling on insulin adherence, FBS and HbA1c among patients with uncontrolled type 2 diabetes mellitus \(T2DM\): a randomised controlled trial](#). *BMC Endocr Disord*. . 2024;24(1):118.
110. Cooper Z, Johnson L, Ali MK, et al. [Factors influencing diabetes treatment satisfaction in the INtegrating DEPrEssioN and Diabetes treatMENt randomized clinical trial: A multilevel model analysis](#). *Diabet Med*. . 2024;41(12):e15412.
111. Gopalasingam N, Berg-Hansen K, Christensen KH, et al. [Randomized Crossover Trial of 2-Week Ketone Ester Treatment in Patients With Type 2 Diabetes and Heart Failure With Preserved Ejection Fraction](#). *Circulation*. . 2024;150(20):1570-1583.
112. Bai J, Zhang Y, He L, Zhao Y. [Normal Weight Central Obesity and its Impact on Type 2 Diabetes Mellitus](#). *Curr Diab Rep*. . 2024;25(1):3.
113. Krychtiuk KA, Marquis-Gravel G, Murphy S, et al. [Effects of albiglutide on myocardial infarction and ischaemic heart disease outcomes in patients](#)

[with type 2 diabetes and cardiovascular disease in the Harmony Outcomes trial.](#) Eur Heart J Cardiovasc Pharmacother. . 2024;10(4):279-288.

114. Gomez AM, Henao DC, Munoz OM, et al. [Temporary Target Versus Suspended Insulin Infusion in Patients with Type 1 Diabetes Using the MiniMed 780G Advanced Closed-Loop Hybrid System During Aerobic Exercise: A Randomized Crossover Clinical Trial.](#) Diabetes Technol Ther. . 2024;26(11):823-828.
115. Fateh HL, Ahmed DH, Najafabadi MS, Moludi J. [The impact of chia seeds on diabetes, blood pressure, lipid profile, and obesity indicators: Systematic review and meta-regression analysis of 14 randomized controlled trials.](#) Prostaglandins Other Lipid Mediat. . 2024;175
116. Muzammil K, Khaleel AQ, Merza MS, et al. [The effects of omega-3 fatty acids on inflammatory and oxidative stress markers in patients with Type 2 diabetes mellitus: A systematic review and meta-analysis of controlled trials.](#) Prostaglandins Other Lipid Mediat. . 2024;175
117. Donglin G, Birjandi R, Esfandabadi FM, Haedi A, Fujiang C. [The effects of purslane \(Portulaca oleracea\) on C-reactive protein, lipid profile, and glycemic control in patients with type 2 diabetes mellitus: A GRADE-assessed systematic review and meta-analysis of randomized controlled trials.](#) Prostaglandins Other Lipid Mediat. . 2024;175
118. Bornhoft L, Bernhardsson S, Nordeman L, Grimby-Ekman A, Dottori M, Larsson MEH. [Monitoring handgrip strength to motivate lifestyle choices for patients with diabetes type 2 - a pragmatic randomised controlled trial.](#) Scand J Prim Health Care. . 2024;42(4):617-632.

119. Chen S, Bowen DG, Liu K, Vidot H. [Hypomagnesaemia, an independent risk factor for the development of post-transplant diabetes mellitus in liver and renal transplant recipients? A systematic review.](#) J Hum Nutr Diet. . 2024;37(6):1407-1419.
120. Wieland ML, Vickery KD, Hernandez V, et al. [Digital Storytelling Intervention for Hemoglobin A1c Control Among Hispanic Adults With Type 2 Diabetes: A Randomized Clinical Trial.](#) JAMA netw. open. . 2024;7(8):e2424781.
121. Helleputte S, Stautemas J, Jansseune L, et al. [Glycemic Management Around Postprandial Exercise in People With Type 1 Diabetes: Challenge Accepted.](#) J Clin Endocrinol Metab. . 2024;109(8):2039-2052.
122. Jayedi A, Soltani S, Emadi A, Najafi A, Zargar MS. [Efficacy of lifestyle weight loss interventions on regression to normoglycemia and progression to type 2 diabetes in individuals with prediabetes: a systematic review and pairwise and dose-response meta-analyses.](#) Am J Clin Nutr. . 2024;120(5):1043-1052.
123. Kong YW, Yuan CY, Kiburg K, et al. [Treatment Satisfaction With Omnipod DASH in Adults With Type 1 Diabetes: A Nonblinded 1:1 Randomized Controlled Trial.](#) J Clin Endocrinol Metab. . 2024;109(8):1984-1995.
124. Chan M, Larsen N, Baxter H, Jespersen L, Ekinici EI, Howell K. [The impact of botanical fermented foods on metabolic syndrome and type 2 diabetes: a systematic review of randomised controlled trials.](#) Nutr. res. rev. . 2024;37(2):396-415.

125. Azim T, Khan AH, Sadiq F, Sulaiman SAS, Khan A, Ain Q. [Impact of COVID-19 on nephropathy in diabetes mellitus type-II patients: a systematic literature review and meta-analysis](#). BMC Nephrol. . 2024;25(1):399.
126. Tweedie-Cullen RY, Jiang Y, Brandon R, et al. [Diabetes treatment satisfaction among a multi-ethnic Aotearoa New Zealand population with uncontrolled type 2 diabetes mellitus](#). N Z Med J. . 2024;137(1600):66-75.
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