

Diabetes eUpdate – September 2025



Figure 1 NHS Lanarkshire Logo

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1. Admas WT, Teoh AN, Chonu GK. [The effects of prenatal psychosocial work stress on adverse pregnancy outcomes: A comprehensive systematic review and meta-analysis](#). *Scand J Work Environ Health*. 2025;51(5):355-369.
2. Al-Sofiani M, Almehtel M, Al Ozairi E, Sadik J, Hao L, Akil Y. [Real-World Effectiveness of My Dose Coach™-Assisted Basal Insulin Titration in People with Type 2 Diabetes in Saudi Arabia and Kuwait](#). *Diabetes Therapy*. 2025;16(9):1829-1840.
3. Alkouri O, Albikawi Z, Saifan AR, et al. [Stratifying atherosclerotic cardiovascular disease by SMuRF burden in a Middle-Eastern country: A multiregistry study of demographics, comorbidities, and therapeutic trends](#). *PLoS One*. 2025;20(9):15.
4. Allen G, Heiland EG, Teleka S, et al. [Association of change in physical activity with use of outpatient specialist care and hospitalisations among breast cancer survivors with type 2 diabetes in Sweden](#). *Br J Cancer*. 2025;133(5):655-664.

5. Assefa BA, Belete TM, Melshew FM, et al. [Assessment of glycemic control, health-related quality of life, and associated factors in type 2 diabetic patients attending a comprehensive specialized hospital in Northwest Ethiopia](#). *PLoS One*. 2025;20(9):22.
6. Badran A, Amruta T, Despoina G, et al. [Hyperglycemic Emergencies in Minority Children and Adolescents With Diabetes](#). *Clin Pediatr*. 2025;64(8):1131-1137.
7. Barbosa C, Hoerger TJ, Mack NA, et al. [A New Simulation Model to Estimate the Long-term Health and Cost Outcomes of Interventions for People With Type 1 Diabetes](#). *Diabetes Care*. 2025;48(9):1553.
8. Basit KA, Ng Fat L, Gregg EW. [Changes in cardiovascular risk factors for diabetes among young versus older English adult populations](#). *J Public Health*. 2025;33(9):1999-2010.
9. Batra M, Bekele Y, Karaglani E, Manios Y, Moschonis G, Erbas B. [Maternal Folic Acid Supplementation and Childhood Metabolic Health: Analyzing Direct and Indirect Effects](#). *Food Sci Nutr*. 2025;13(9):8.
10. Bekken T, Ottesen N, Glenton C, Lena VN. [What motivates people with type 2 diabetes to maintain lifestyle changes and what challenges do they experience? A qualitative evidence synthesis](#). *PLoS One*. 2025;20(9):22.
11. Bhuvanesswar KC, Srivastava BK, Amutha A, et al. [Prevalence of Hepatic Steatosis and Fibrosis in Asian Indian Individuals with Type 2 Diabetes](#). *Diabetes Therapy*. 2025;16(9):1797-1811.
12. Bhargava A, McKeating KS, Lin A, Chen T. [Accuracy and Reliability of the Sinocare Continuous Glucose Monitoring System](#). *Diabetes Therapy*. 2025;16(9):1861-1870.
13. Boussebaa W, Rahmani Z, Mokhtar S, et al. [Phenolic Compounds Analysis and In Vitro Biological Activities of Aqueous Extract From Leaves of Paronychia Arabica Collected in South Algeria](#). *Food Sci Nutr*. 2025;13(9):13.
14. Carey IM, Harris T, Chaudhry UAR, et al. [Body mass index and infection risks in people with and without type 2 diabetes: A cohort study using electronic health records](#). *Int J Obes*. 2025;49(9):1800-1809.
15. Chen B, Li Z, Zhao J, Dong H, Long T, Dou J. [Factors associated with aspirin resistance in diabetic patients: A metabolic and inflammatory profile analysis](#). *PLoS One*. 2025;20(9):15.
16. Chen I, Chang L, Wu J, et al. [Impact of SGLT2 Inhibitors Use on Risk of Postoperative Acute Kidney Injury Following Metabolic and Bariatric Surgery: A Retrospective Study](#). *Obes Surg*. 2025;35(9):3599-3607.
17. Chong CT, Palaniveloo L, Sulhariza HZ, Muhamad Khairul NK, Kishwen Kanna YR. [Gestational diabetes mellitus and its associated factors among women of advanced maternal age in Malaysia: Findings from a national survey](#). *PLoS One*. 2025;20(9):10.

18. Côté-Olijnyk M, Fonagy P, Zeng Y, et al. [Global Assessment of Relational Functioning: A Dynamic Family Measure Predicting Outcome in Children With Diabetes](#). *Fam Process*. 2025;64(3):no pagination.
19. Dekker E, de Winter TJ, Muñoz Garcia A, et al. [BMP5 signalling in beta cells and the impact on insulin secretion in the context of type 2 diabetes](#). *Diabetologia*. 2025;68(9):1983-1996.
20. Dimitropoulou NM, Eussen SJPM, Schalkwijk CG, de Galan BE. [Glucose variability measured by continuous glucose monitoring is associated with skin autofluorescence: the Maastricht Study](#). *Diabetologia*. 2025;68(9):1937-1946.
21. Evans-Molina C, Dor Y, Lernmark Å, et al. [The heterogeneity of type 1 diabetes: implications for pathogenesis, prevention, and treatment—2024 Diabetes, Diabetes Care, and Diabetologia Expert Forum](#). *Diabetologia*. 2025;68(9):1859-1878.
22. Espinoza-Enciso L, Hernández-Gozar IG, Zuñiga-Baldarrago KC, Lozano-Purizaca R, Briceño-Alvarado M, Yovera-Aldana M. [Prevalence of peripheral arterial disease and arterial calcification based on three ankle-brachial index calculation methods \(highest, average, and lowest systolic ankle pressure\): A cross-sectional study in Type 2 diabetes mellitus patients in Peru](#). *PLoS One*. 2025;20(9):21.
23. Fischer A, Sadler A, Mathey E, Mühlbacher A. [Analysis of patients preferences in type 2 diabetes mellitus second-line drug treatment: A discrete choice experiment](#). *PLoS One*. 2025;20(9):18.
24. Freitas RDS, da Silva J. [Impact of ultra-processed foods on human health: A comprehensive review of genomic instability and molecular mechanisms](#). *Nutrition*. 2025;137:no pagination.
25. Gómez-Medina AM, Henao-Carillo D, Villamil-Castañeda LP, et al. [Insulin DEgludec/LIraglutide versus multiple daily insulin injections in the transition from hospital to outpatient management assessed by continuous glucose monitoring: the DELI transition trial](#). *Diabetologia*. 2025;68(9):1899-1907.
26. Giardinelli S, Lambertini AG, Lumaca A, et al. [Bioelectrical impedance analysis of body composition in children and adolescents with type 1 diabetes: a prospective case-control study](#). *Eur J Pediatr*. 2025;184(9):560:no pagination.
27. Herder C, Zhu A, Schmitt A, et al. [Biomarkers of inflammation and improvement in depressive symptoms in type 1 and type 2 diabetes: differential associations with depressive symptom clusters](#). *Diabetologia*. 2025;68(9):2057-2068.
28. Herold KC, Pober JS. [Replacement of Beta Cells for Type 1 Diabetes](#). *N Engl J Med*. 2025;393(9):917-921.
29. Hu J, Jiang G, Qin J, et al. [A type 1 diabetes genetic risk score discriminates between type 1 diabetes and type 2 diabetes in a Chinese population](#). *Diabetologia*. 2025;68(9):1969-1982.

30. Jastreboff AM, Ryan DH, Bays HE, et al. [Once-Monthly Maridebart Cafraglutide for the Treatment of Obesity — A Phase 2 Trial](#). *N Engl J Med*. 2025;393(9):843-857.
31. Juliana Rodrigues TG, Franciële Marabotti CL, Ana Paula Brioschi dS, Larissa Soares Dell'Antonio, Cristiano Soares da Silva Dell'Antonio, Lopes-Júnior LC. [Factors associated with prolonged hospitalizations for COVID-19 during the first three waves of the pandemic: Evidence from a Southeastern State of Brazil](#). *PLoS One*. 2025;20(9):15.
32. Kang YM, Giugliano RP, Ran X, et al. [Cardiovascular Outcomes and Efficacy of the PCSK9 Inhibitor Evolocumab in Individuals With Type 1 Diabetes: Insights From the FOURIER Trial](#). *Diabetes Care*. 2025;48(9):1512.
33. Keller MJ, Brady AJ, Smith JAB, et al. [Inflammatory markers and blood glucose are higher after morning vs afternoon exercise in type 2 diabetes](#). *Diabetologia*. 2025;68(9):2023-2035.
34. Kiran TR, Erdem M, Yıldırım E, İnceoğlu F. [Vascular imbalance in polycystic ovary syndrome: Insights into endothelial dysfunction](#). *PLoS One*. 2025;20(9):15.
35. Li L, Yang S, Ran X, Liu S. [Diabetes-Specific Serum Calcium Thresholds for Mortality Risk: A NHANES Nutritional Epidemiology Study](#). *Food Sci Nutr*. 2025;13(9):13.
36. Li Z, Wu M, Wang P, Xie W, Hua Y, Guo Shao HZ. [Sedentary behavior mediates the association between weight-adjusted waist index and cardiovascular disease in patients with diabetes](#). *PLoS One*. 2025;20(9):16.
37. Lv Y, Wei L, Wang Z, Mu Z, Wu J. [Association between hemoglobin glycation index and 28-day all-cause mortality in acute myocardial infarction patients: Analysis of the MIMIC-IV database](#). *PLoS One*. 2025;20(9):15.
38. Maagensen H, Jensen JS, Høyerup S,O., et al. [Effect of SGLT2 Inhibition on Glucosuria During a Hyperglycemic Clamp in HNF1A-MODY \(MODY3\) and Type 2 Diabetes](#). *Diabetes Care*. 2025;48(9):1536.
39. Maqsood S, Basher NS, Arshad MT, et al. [Anthocyanins From Sweet Potatoes \(Ipomoea batatas\): Bioavailability, Mechanisms of Action, and Therapeutic Potential in Diabetes and Metabolic Disorders](#). *Food Sci Nutr*. 2025;13(9):27.
40. Marinac M, Rickels MR, Gaglia JL, et al. [Future Directions and Clinical Trial Considerations for Novel Islet \$\beta\$ -Cell Replacement Therapies for Type 1 Diabetes](#). *Diabetes*. 2025;74(9):1452.
41. Martinenghi S, Merolla A, Grogan P, et al. [Prevention of diabetic ketoacidosis in relatives screened for islet autoantibodies and followed up in the TrialNet Pathway to Prevention study at a single institution in Italy](#). *Diabetologia*. 2025;68(9):1889-1898.

42. Mendoza-Cano O, Trujillo X, Huerta M, et al. [Data-driven identification of key predictors of uncontrolled hypertension: A cross-sectional study](#). *PLoS One*. 2025;20(9):14.
43. Michel M, Flahault A, Coliche V, et al. [Differences in biopsy-proven diabetic kidney disease in individuals from Polynesia vs mainland France: a retrospective cohort study](#). *Diabetologia*. 2025;68(9):1947-1957.
44. Mimura H, Oura T, Chin R, Hirase T, Shimono D. [Association Between Early Weight Loss and Metabolic Outcomes with Tirzepatide in Japanese Patients with Type 2 Diabetes: A SURPASS J Post Hoc Analysis](#). *Diabetes Therapy*. 2025;16(9):1871-1885.
45. Monirul IM, Reza S, Mohammad Olid AA, Elias F, Nova A. [DFU_DIALNet: Towards reliable and trustworthy diabetic foot ulcer detection with synergistic confluence of Grad-CAM and LIME](#). *PLoS One*. 2025;20(9):27.
46. Morales-Garzón S, Vasconez J, Jessica PD, et al. [The burden of non-communicable disease risk factors in a low-income population: Findings from a cross-sectional study highlighting the prevalence of obesity, hypertension, and metabolic disorders in the south of Quito, Ecuador](#). *PLoS One*. 2025;20(9):19.
47. Mah SM, Mackenzie H, Lu M, Rosella LC. [Retrospective population-based study of 132 000 Canadians on the relationship between community belonging and diabetes incidence](#). *BMJ Public Health*. 2025;3(2):13.
48. Majcherek D, Ciesielski A, Sobczak P. [AI-driven analysis of diabetes risk determinants in U.S. adults: Exploring disease prevalence and health factors](#). *PLoS One*. 2025;20(9):20.
49. Marinac M, Rickels MR, Gaglia JL, et al. [Future Directions and Clinical Trial Considerations for Novel Islet \$\beta\$ -Cell Replacement Therapies for Type 1 Diabetes](#). *Diabetes*. 2025;74(9):1452.
50. Mathieu C, Wych J, Hendriks AE, et al. [Minimum effective low dose of antithymocyte globulin in people aged 5–25 years with recent-onset stage 3 type 1 diabetes \(MELD-ATG\): a phase 2, multicentre, double-blind, randomised, placebo-controlled, adaptive dose-ranging trial](#). *Lancet*. 2025;406(10510):1375-1388.
51. Michel M, Flahault A, Coliche V, et al. [Differences in biopsy-proven diabetic kidney disease in individuals from Polynesia vs mainland France: a retrospective cohort study](#). *Diabetologia*. 2025;68(9):1947-1957.
52. Mimura H, Oura T, Chin R, Hirase T, Shimono D. [Association Between Early Weight Loss and Metabolic Outcomes with Tirzepatide in Japanese Patients with Type 2 Diabetes: A SURPASS J Post Hoc Analysis](#). *Diabetes Therapy*. 2025;16(9):1871-1885.

53. Monirul IM, Reza S, Mohammad Olid AA, Elias F, Nova A. [DFU_DIALNet: Towards reliable and trustworthy diabetic foot ulcer detection with synergistic confluence of Grad-CAM and LIME](#). *PLoS One*. 2025;20(9):27.
54. Morales-Garzón S, Vasconez J, Jessica PD, et al. [The burden of non-communicable disease risk factors in a low-income population: Findings from a cross-sectional study highlighting the prevalence of obesity, hypertension, and metabolic disorders in the south of Quito, Ecuador](#). *PLoS One*. 2025;20(9):19.
55. Narapaka PK, Singh M, Ramesh M, Dhingra S. [Patient-reported involvement in shared decision-making during medical consultations: a systematic literature review](#). *J Public Health*. 2025;33(9):1899-1906.
56. O'Neill S, Bidulka P, Lugo-Palacios D, et al. [Comparative effectiveness of alternative second-line oral glucose-lowering therapies for type 2 diabetes: a precision medicine approach applied to routine data](#). *Diabetologia*. 2025;68(9):1908-1923.
57. Parra-Pineda A, Lizarazo-Bocanegra S, Villalba-Montero L, et al. [Fenofibrate and Diabetic Retinopathy](#). *Diabetes Therapy*. 2025;16(9):1763-1777.
58. Pradeepa R, PramodKumar TA, Anjana RM, et al. [Association Between Type 2 Diabetes Mellitus and Heart Failure: A Retrospective Study from a Tertiary Care Diabetes Centre in India](#). *Diabetes Therapy*. 2025;16(9):1779-1793.
59. Pradeepa R, PramodKumar TA, Anjana RM, et al. [Correction to: Association Between Type 2 Diabetes Mellitus and Heart Failure: A Retrospective Study from a Tertiary Care Diabetes Centre in India](#). *Diabetes Therapy*. 2025;16(9):1795-1796.
60. PramodKumar TA, Pradeepa R, Jebarani S, et al. [Effectiveness of Glipizide and Glipizide Plus Metformin Formulation among Asian Indians with Type 2 Diabetes: a Real-World, Retrospective Electronic Medical Record Analysis](#). *Drugs Real World Outcomes*. 2025;12(3):457-466.
61. Qi Y, Xia L, Chen Y, et al. [Self-management needs of adolescents with type 1 diabetes on transition to adult health care: a qualitative study](#). *Eur J Pediatr*. 2025;184(9):541:no pagination.
62. Quarta S, Calabriso N, Carluccio MA, et al. [Anti-Inflammatory Role of Myo-Inositol in Obesity: Suppression of TNF- \$\alpha\$ -Induced Inflammation and Monocyte Adhesion in Hypertrophic Human Adipocytes](#). *Food Sci Nutr*. 2025;13(9):13.
63. Rao Y, Yu EY, Lin T, et al. [Interaction between coffee consumption and polygenic risk score in relation to diabetes: insights from the Maastricht study](#). *Eur J Nutr*. 2025;64(6):263:no pagination.
64. Reichman TW, Markmann JF, Odorico J, et al. [Stem Cell-Derived, Fully Differentiated Islets for Type 1 Diabetes](#). *N Engl J Med*. 2025;393(9):858-868.

65. Rosenstock J, Hsia S, Nevarez Ruiz L, et al. [Orforglipron, an Oral Small-Molecule GLP-1 Receptor Agonist, in Early Type 2 Diabetes](#). *N Engl J Med*. 2025;393(11):1065.
66. Sainz-Prado R, Sainz-Prado A, Andrade-Gómez E, Rodríguez-Roca B. [Quasi-experimental controlled study protocol to reduce sedentary lifestyle in patients with type 2 diabetes](#). *PLoS One*. 2025;20(9):16.
67. Shakra MY, Geneedy Morsy RM, Ahmad HK, AI MM, Mostafa ME. [Impact of Soluble Schistosomal Egg Antigens on Type 1 Diabetes Mellitus in an Induced Diabetic Mouse Model](#). *Acta Parasitologica*. 2025;70(3):98.
68. Singh S, Anis Syazwani AR, Jian-Wen Samuel Lee-Boey, Hana Salwani MZ, Ying GO, Lee-Ling L. [Cohort profile: The Multiethnic Lifestyle, Obesity and Diabetes Registry in Malaysia \(MeLODY\) retrospective cohort in a middle-income country in Southeast Asia](#). *PLoS One*. 2025;20(9):11.
69. Son HJ, Park S, Park J, Han K. [Impact of smoking, diabetes, and exercise on dementia risk in women with osteoporosis: a nationwide cohort study](#). *Osteoporosis Int*. 2025;36(9):1565-1572.
70. Tanık EB, Bakır A, Yüzügüldü B, Korkut G, Kürkcü MF, Ünsal İÖ. [Prevalence of Human Herpesvirus 8 Infection in Patients With Type 2 Diabetes and Blood Donors](#). *J Med Virol*. 2025;97(9):no pagination.
71. Tian X, Kong Y, Liu X. [Solving multi-scenario hybrid flow shop scheduling problem based on an improved probe machine model](#). *PLoS One*. 2025;20(9):40.
72. Tiwaskar M, Hwu C, Lim M, Bhandary A, Chang I. [Treatment Preferences for Novel Type 2 Diabetes Oral Medications: Insights from the Asian Diabetes Patient Preference Study](#). *Diabetes Therapy*. 2025;16(9):1841-1859.
73. Tolonen U, Lankinen M, Laakso M, Schwab U. [Changes in food choices and dietary patterns during the lifestyle intervention and their association with type 2 diabetes risk in participants with high or low genetic risk for type 2 diabetes](#). *Eur J Nutr*. 2025;64(6):274: no pagination.
74. Valent AM, Rickert M, Pagan CH, Ward L, Dunn E, Rincon M. [Real-Time Continuous Glucose Monitoring in Pregnancies With Gestational Diabetes Mellitus: A Randomized Controlled Trial](#). *Diabetes Care*. 2025;48(9):1581.
75. Vonineng N, Sutherasan Y, Bruminhent J. [Clinical characteristics, risk factors and outcome of critically ill immunocompromised patients with bloodstream infections and sepsis](#). *PLoS One*. 2025;20(9):13.
76. Wang N, Wang T, Jia X, et al. [Dynapenic obesity associated with incidence and progression trajectory of cardiometabolic diseases: a prospective cohort study](#). *Int J Obes*. 2025;49(9):1820-1828.

77. Wang P, Jiang S, Hua Y, Xie W, Guo S, Zhu H. [Relationship between the blood urea nitrogen to serum albumin ratio and in-hospital mortality in patients with type 2 diabetes mellitus complicated with ischemic stroke](#). *PLoS One*. 2025;20(9):15.
78. Wang W, Tang W, Webster-Clark M, Yu OHY, Filion KB. [Target trial emulation of cardiovascular outcome trials of medications used to treat type 2 diabetes using real-world data: a systematic review of observational studies](#). *J Clin Epidemiol*. 2025;185:13.
79. Widatalla N, Younis SA, Ghosh SK, Khandoker A. [Symbolic heart rate transition motifs during nocturnal sleep are associated with diabetic complications in type 2 diabetes](#). *PLoS One*. 2025;20(9):13.
80. Xu Q, Huang Y. [Rethinking the link between gestational diabetes and dementia risk](#). *Diabetologia*. 2025;68(9):2077-2079.
81. Ye J, Xiaoxuan Xu, Yanhong Wang, Qu X, Guo Y, et al. [Preliminary study on metabolite differences between two obesity syndromes based on Q Exactive liquid chromatography–tandem mass spectrometry metabolomics](#). *PLoS One*. 2025;20(9):17.
82. Yuan J, Chen Z, Gu Y, Liang Y, Yao Z. [Effects of alcohol consumption on the prevalence and incidence of non-alcoholic fatty liver disease: A systematic review and meta-analysis](#). *PLoS One*. 2025;20(9):15.
83. Zheng S, Li A, Yang Y, Zhao D, Ke J. [Effect of Dietary Patterns on Long-Term Weight Maintenance of Patients After Sleeve Gastrectomy](#). *Food Sci Nutr*. 2025;13(9):13.

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