

# Diabetes Care

THE JOURNAL OF CLINICAL AND APPLIED RESEARCH AND EDUCATION

October 2023 Volume 46, Number 10

## The Art of Diabetes Care

1725 About the Artist: Kathy McNamara

## In This Issue

1726 In This Issue of *Diabetes Care*  
M. Bingham

## Review

- 1728 Artificial Intelligence and Diabetic Retinopathy: AI Framework, Prospective Studies, Head-to-head Validation, and Cost-effectiveness  
A.E. Rajesh, O.Q. Davidson, C.S. Lee, and A.Y. Lee

## Consensus Report

- 1740 Executive Summary: Guidelines and Recommendations for Laboratory Analysis in the Diagnosis and Management of Diabetes Mellitus  
D.B. Sacks, M. Arnold, G.L. Bakris, D.E. Bruns, A.R. Horvath, Å. Lernmark, B.E. Metzger, D.M. Nathan, and M.S. Kirkman
- e151 Guidelines and Recommendations for Laboratory Analysis in the Diagnosis and Management of Diabetes Mellitus  
D.B. Sacks, M. Arnold, G.L. Bakris, D.E. Bruns, A.R. Horvath, Å. Lernmark, B.E. Metzger, D.M. Nathan, and M.S. Kirkman

## Commentaries

- 1747 Personalizing Early-Stage Type 1 Diabetes in Children  
C. Limbert, T. von dem Berge, and T. Danne
- 1750 Pragmatic Evidence for Theory-Based Innovations in Diabetes Primary Care  
A.D. Naik

## Original Research

- 1753 Refining the Definition of Stage 1 Type 1 Diabetes: An Ontology-Driven Analysis of the Heterogeneity of Multiple Islet Autoimmunity  
B.I. Frohnert, M. Ghalwash, Y. Li, K. Ng, J.L. Dunne, M. Lundgren, W. Hagopian, O. Lou, C. Winkler, J. Toppari, R. Veijola, and V. Anand, for the T1D1 Study Group
- 1762 Care Management Processes Important for High-Quality Diabetes Care  
K.A. Peterson, C.S. Carlin, L.I. Solberg, J. Normington, and E.F. Lock
- 1770 A Skin Care Program to Prevent Skin Problems due to Diabetes Devices in Children and Adolescents: A Cluster-Controlled Intervention Study  
A.K. Berg, A.C. Grauslund, F. Sørensen, S.U. Thorsen, J.P. Thyssen, C. Zachariae, and J. Svensson
- 1778 Type 1 Diabetes Genetic Risk Score Differentiates Subgroups of Ketosis-Prone Diabetes  
D. Osafehinti, S.N. Mulukutla, C.S. Hampe, R. Gaba, N. Ram, M.N. Weedon, R.A. Oram, and A. Balasubramanyam
- 1783 Genetic Evidence Strongly Supports Managing Weight and Blood Pressure in Addition to Glycemic Control in Preventing Vascular Complications in People With Type 2 Diabetes  
A. Ahmed, H. Amin, F. Drenos, N. Sattar, and H. Yaghoobkar
- 1792 Relationship Between Symptom Perception and Postprandial Glycemic Profiles in Patients With Postbariatric Hypoglycemia After Roux-en-Y Gastric Bypass Surgery  
A. Tripyla, A. Ferreira, K.A. Schönenberger, N.H. Näf, L.E. Inderbitzin, F. Prendin, L. Cossu, G. Cappon, A. Facchinetti, D. Herzig, and L. Bally

1799 Methyl Donor Nutrient Intake and Incidence of Type 2 Diabetes: Results From Three Large U.S. Cohorts  
C.M. Sawicki, D.E. Haslam, K.V.E. Braun, J.-P. Drouin-Chartier, T. Voortman, O.H. Franco, Qi Sun, F.B. Hu, and S.N. Bhupathiraju

1807 Risk Assessment of Kidney Disease Progression and Efficacy of SGLT2 Inhibition in Patients With Type 2 Diabetes  
F.A. Moura, D.D. Berg, A. Bellavia, J.P. Dwyer, O. Mosenzon, B.M. Scirica, S.D. Wiviott, D.L. Bhatt, I. Raz, M.W. Feinberg, E. Braunwald, D.A. Morrow, and M.S. Sabatine

1816 Leisure-Time Physical Activity and Risk of Microvascular Complications in Individuals With Type 2 Diabetes: A UK Biobank Study  
F.P.B. Kristensen, M.A. Sanchez-Lastra, K.E. Dalene, B. del Pozo Cruz, M. Ried-Larsen, R.W. Thomsen, D. Ding, U. Ekelund, and J. Tarp

1825 Real-world Accuracy of CGM in Inpatient Critical and Noncritical Care Settings at a Safety-Net Hospital  
E. Finn, L. Schlichting, L. Grau, I.S. Douglas, and R.I. Pereira

1831 Hybrid Closed-Loop Therapy in Adults With Type 1 Diabetes and Above-Target HbA<sub>1c</sub>: A Real-world Observational Study  
T.S.J. Crabtree, T.P. Griffin, Y.W. Yap, P. Narendran, G. Gallen, N. Furlong, I. Cranston, A. Chakera, C. Philbey, M.A. Karamat, S. Saraf, S. Kamaruddin, E. Gurnell, A. Chapman, S. Hussain, J. Elliott, L. Leelarathna, R.E.J. Ryder, P. Hammond, A. Lumb, P. Choudhary, and E.G. Wilmat, on behalf of the ABCD DTN-UK Closed-Loop Audit Contributors

1839 HLA Genotype and Probiotics Modify the Association Between Timing of Solid Food Introduction and Islet Autoimmunity in the TEDDY Study  
U. Uusitalo, L.K. Mramba, C.A. Aronsson, K. Vehik, J. Yang, S. Hummel, Å. Lernmark, M. Rewers, W. Hagopian, R. McIndoe, J. Toppari, A.-G. Ziegler, B. Akolkar, J.P. Krischer, S.M. Virtanen, and J.M. Norris, for the TEDDY Study Group

1848 Teplizumab: A Disease-Modifying Therapy for Type 1 Diabetes That Preserves  $\beta$ -Cell Function  
K.C. Herold, S.E. Gitelman, P.A. Gottlieb, L.A. Knecht, R. Raymond, and E.L. Ramos

→ 1857 All-Cause Mortality and Cardiovascular and Microvascular Diseases in Latent Autoimmune Diabetes in Adults  
Y. Wei, K. Herzog, E. Ahlqvist, T. Andersson, T. Nyström, Y. Zhan, T. Tuomi, and S. Carlsson

## Meta-analysis

→ 1866 Effect of Postmenopausal Hormone Therapy on Glucose Regulation in Women With Type 1 or Type 2 Diabetes: A Systematic Review and Meta-analysis  
E.M. Speksnijder, G.V. ten Noever de Brauw, A. Malekzadeh, P.H. Bisschop, D.J. Stenvers, and S.E. Siegelaar

## e-Letters – Observations

e200 Change in the Relation Between Age and Cardiovascular Events Among Men and Women With Diabetes Compared With Those Without Diabetes in 1994–1999 and 2014–2019: A Population-Based Cohort Study  
C. Ke, L.L. Lipscombe, A. Weisman, L. Zhou, P.C. Austin, B.R. Shah, and G.L. Booth

## e-Letters – Comments and Responses

e203 Comment on Huh et al. Remnant Cholesterol Is an Independent Predictor of Type 2 Diabetes: A Nationwide Population-Based Cohort Study. *Diabetes Care* 2023;46:305–312  
M. Canyelles, F. Blanco-Vaca, A. Pérez, and J.C. Escolà-Gil

Keep up with the latest information for *Diabetes Care* and other ADA titles via Facebook (/ADAPublications) and X (@ADA\_Pubs and @DiabetesCareADA).

All articles in *Diabetes Care* are available online at [diabetesjournals.org/care](https://diabetesjournals.org/care). Featured articles (➡) and select content are available free of charge. Other articles are available free to print subscribers or can be purchased as e-prints or reprints.

ADA's *Diabetes Core Update* and *Diabetes Care "On Air"* podcasts are available at [diabetesjournals.org](https://diabetesjournals.org) and through iTunes.

Icons shown below appear on the first page of an article if more information is available online.



Video



Podcast



Supplementary Data



Companion Article

**e204** Comment on Huh et al. Remnant Cholesterol Is an Independent Predictor of Type 2 Diabetes: A Nationwide Population-Based Cohort Study. *Diabetes Care* 2023;46:305–312  
*R.A. Hegele*

**e205** Response to Comment on Huh et al. Remnant Cholesterol Is an Independent Predictor of Type 2 Diabetes: A Nationwide Population-Based Cohort Study. *Diabetes Care* 2023;46:305–312  
*J.H. Huh and J.G. Kang*

**e207** Comment on Haidar et al. A Randomized Crossover Trial to Compare Automated Insulin Delivery (the Artificial Pancreas) With Carbohydrate Counting or Simplified Qualitative Meal-Size Estimation in Type 1 Diabetes. *Diabetes Care* 2023;46:1372–1378  
*J. Blervaque, S. Lablanche, H. Romero-Ugalde, A. Adenis, G. Charpentier, and P.Y. Benhamou*

## Erratum

**1876** Erratum. Remnant Cholesterol Is an Independent Predictor of Type 2 Diabetes: A Nationwide Population-Based Cohort Study. *Diabetes Care* 2023;46:305–312  
*J.H. Huh, E. Roh, S.J. Lee, S.-H. Ihm, K.-D. Han, and J.G. Kang*

## Issues and Events

**1877** Issues and Events