

## In This Issue

693 In This Issue of *Diabetes Care*

## Commentaries

695 Rethinking Neuropathy in Type 1 Diabetes: Had We Lost Sight of What Matters Most?

B.A. Perkins

698 Improving Clinical Islet Transplantation Outcomes

B.O. Roep

701 Moving Toward the Implementation of Precision Medicine Needs Highly Discriminatory, Validated, Inexpensive, and Easy-to-Use Prediction Models

V. Trischitta and M. Copetti

## Profiles in Progress

704 Daniel Porte Jr.: A Leader in Our Understanding of the Role of Defective Insulin Secretion and Action in Obesity and Type 2 Diabetes

J.P. Palmer, S.E. Kahn, M.W. Schwartz, G.J. Taborsky Jr., and S.C. Woods


## Clinical Care/Education/Nutrition/Psychosocial Research

710 Targeting CXCR1/2 Does Not Improve Insulin Secretion After Pancreatic Islet Transplantation: A Phase 3, Double-Blind, Randomized, Placebo-Controlled Trial in Type 1 Diabetes

P. Maffi, T. Lundgren, G. Tufveson, E. Rafael, J.A.M. Shaw, A. Liew, F. Saudek, P. Witkowski, K. Golab, F. Bertuzzi, B. Gustafsson, L. Daffonchio, P.A. Ruffini, L. Piemonti, and the REPO211 Study Group

719 Glucosamine Use, Inflammation, and Genetic Susceptibility, and Incidence of Type 2 Diabetes: A Prospective Study in UK Biobank

H. Ma, X. Li, T. Zhou, D. Sun, Z. Liang, Y. Li, Y. Heianza, and L. Qi


→ 726  Screening for Glucose Perturbations and Risk Factor Management in Dysglycemic Patients With Coronary Artery Disease—A Persistent Challenge in Need of Substantial Improvement: A Report From ESC EORP EUROASPIRE V

G. Ferrannini, D. De Bacquer, G. De Backer, K. Kotseva, L. Mellbin, D. Wood, and L. Rydén, on behalf of the EUROASPIRE V collaborators


## Epidemiology/Health Services Research

734 Diabetic Neuropathy Is a Substantial Burden in People With Type 1 Diabetes and Is Strongly Associated With Socioeconomic Disadvantage: A Population-Representative Study From Scotland

A. Jeyam, S.J. McGurnaghan, L.A.K. Blackburn, J.M. McKnight, F. Green, A. Collier, P.M. McKeigue, and H.M. Colhoun, on behalf of the SDRNT1BIO Investigators

743  Impact of a Telephonic Intervention to Improve Diabetes Control on Health Care Utilization and Cost for Adults in South Bronx, New York

B.P. Tabaei, R.E. Howland, J.S. Gonzalez, S. Chamany, E.A. Walker, C.B. Schechter, and W.Y. Wu

751  The Association Between Poor Glycemic Control and Health Care Costs in People With Diabetes: A Population-Based Study

M. Mata-Cases, B. Rodríguez-Sánchez, D. Mauricio, J. Real, B. Vlachou, J. Franch-Nadal, and J. Oliva

759 The Longitudinal Influence of Social Determinants of Health on Glycemic Control in Elderly Adults With Diabetes

R.J. Walker, E. Garacci, A. Palatnik, M.N. Ozieh, and L.E. Egede

767 Diabetes Prevalence and Its Relationship With Education, Wealth, and BMI in 29 Low- and Middle-Income Countries

J.A. Seiglie, M.-E. Marcus, C. Ebert, N. Prodromidis, P. Geldsetzer, M. Theilmann, K. Agoudavi, G. Andall-Brereton, K.K. Aryal, B.W. Bicaba, P. Bovet, G. Brian, M. Dorobantu, G. Gathecha, M.S. Gurung, D. Guwatudde, M. Msaidi, C. Houehanou, D. Houinato, J.M.A. Jorgensen, G.B. Kagaruki, K.B. Karki, D. Labadarios, J.S. Martins, M.T. Mayige, R. Wong-McClure, J.K. Mwangi, O. Mwalim, B. Norov, S. Quesnel-Crooks, B.K. Silver, L. Sturua, L. Tsabedze, C.S. Wesseh, A. Stokes, R. Atun, J.I. Davies, S. Vollmer, T.W. Bärnighausen, L.M. Jaacks, J.B. Meigs, D.J. Wexler, and J. Manne-Goehler

776 Dietary Nonheme, Heme, and Total Iron Intake and the Risk of Diabetes in Adults: Results From the China Health and Nutrition Survey

J. He, A. Fang, S. Yu, X. Shen, and K. Li

785 Similar Breast Cancer Risk in Women Older Than 65 Years Initiating Glargine, Detemir, and NPH Insulins

M.C. Bradley, Y. Chillarige, H. Lee, X. Wu, S. Parulekar, M. Wernecke, P. Bright, M. Soukup, T.E. MacCurdy, J.A. Kelman, and D.J. Graham

→ 793 Lactation Duration and Long-term Risk for Incident Type 2 Diabetes in Women With a History of Gestational Diabetes Mellitus

S.H. Ley, J.E. Chavarro, M. Li, W. Bao, S.N. Hinkle, P.L. Wander, J. Rich-Edwards, S. Olsen, A. Vaag, P. Damm, L.G. Grunnet, J.L. Mills, F.B. Hu, and C. Zhang

## Emerging Technologies: Data Systems and Devices


799 The Use of a Smart Bolus Calculator Informed by Real-time Insulin Sensitivity Assessments Reduces Postprandial Hypoglycemia Following an Aerobic Exercise Session in Individuals With Type 1 Diabetes

C. Fabris, R.M. Nass, J. Pinnata, K.A. Carr, C.L.K. Koravi, C.L. Barnett, M.C. Oliveri, S.M. Anderson, D.R. Chernavsky, and M.D. Breton

## Pathophysiology/Complications

806 The Contemporary Prevalence of Diabetic Neuropathy in Type 1 Diabetes: Findings From the T1D Exchange

K.R. Mizokami-Stout, Z. Li, N.C. Foster, V. Shah, G. Aleppo, J.B. McGill, R. Pratley, E. Toschi, L. Ang, and R. Pop-Busui, for T1D Exchange Clinic Network

813  Time Course of Normalization of Functional  $\beta$ -Cell Capacity in the Diabetes Remission Clinical Trial After Weight Loss in Type 2 Diabetes

S.V. Zhyzhneuskaya, A. Al-Mrabeh, C. Peters, A. Barnes, B. Aribisala, K.G. Hollingsworth, A. McConnachie, N. Sattar, M.E.J. Lean, and R. Taylor

821 Respective Contributions of Glycemic Variability and Mean Daily Glucose as Predictors of Hypoglycemia in Type 1 Diabetes: Are They Equivalent?

L. Monnier, A. Wojtuszczyk, N. Molinari, C. Colette, E. Renard, and D. Owens

828 Leukocyte Telomere Length, DNA Oxidation, and Risk of Lower-Extremity Amputation in Patients With Long-standing Type 1 Diabetes

M. Sanchez, S. Hoang, C. Kannengiesser, L. Potier, S. Hadjadj, M. Marre, R. Roussel, G. Velho, and K. Mohammedi

835 ACE and Type 2 Diabetes Risk: A Mendelian Randomization Study

M. Pigeyre, J. Sjaarda, M. Chong, S. Hess, J. Bosch, S. Yusuf, H. Gerstein, and G. Paré

Keep up with the latest information for *Diabetes Care* and other ADA titles via Facebook (/ADAJournals) and Twitter (@ADA\_Journals).

All articles in *Diabetes Care* are available online at [diabetes.org/diabetescare](http://diabetes.org/diabetescare). Cover 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* podcasts are available at [diabetesjournals.org](http://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

## Cardiovascular and Metabolic Risk

- 843** Coronary Artery Disease and Type 2 Diabetes: A Proteomic Study  
*G. Ferrannini, M.L. Manca, M. Magnoni, F. Andreotti, D. Andreini, R. Latini, A. Maseri, A.P. Maggioni, R.M. Ostroff, S.A. Williams, and E. Ferrannini*
- 852** Predicting 10-Year Risk of End-Organ Complications of Type 2 Diabetes With and Without Metabolic Surgery: A Machine Learning Approach  
*A. Aminian, A. Zajichek, D.E. Arterburn, K.E. Wolski, S.A. Brethauer, P.R. Schauer, S.E. Nissen, and M.W. Kattan*
- 860** Effects of Bariatric Surgery in Early- and Adult-Onset Obesity in the Prospective Controlled Swedish Obese Subjects Study  
*F.M. Kristensson, J.C. Andersson-Assarsson, P.-A. Svensson, B. Carlsson, M. Peltonen, and L.M.S. Carlsson*
- ➡ **867** Risk Factors for First and Subsequent CVD Events in Type 1 Diabetes: The DCCT/EDIC Study  
*I. Bebu, D. Schade, B. Braffett, M. Kosiborod, M. Lopes-Virella, E.Z. Soliman, W.H. Herman, D.A. Bluemke, A. Wallia, T. Orchard, and J.M. Lachin, on behalf of the DCCT/EDIC Research Group*
- 875** Epigenetic Link Between Statin Therapy and Type 2 Diabetes  
*C. Ochoa-Rosales, E. Portilla-Fernandez, J. Nano, R. Wilson, B. Lehne, P.P. Mishra, X. Gao, M. Ghanbari, O.L. Rueda-Ochoa, D. Juvinao-Quintero, M. Loh, W. Zhang, J.S. Kooner, H.J. Grabe, S.B. Felix, B. Schöttker, Y. Zhang, C. Gieger, M. Müller-Nurasyid, M. Heier, A. Peters, T. Lehtimäki, A. Teumer, H. Brenner, M. Waldenberger, M.A. Ikram, J.B.J. van Meurs, O.H. Franco, T. Voortman, J. Chambers, B.H. Stricker, and T. Muka*
- 885** Association Between the Use of Antidepressants and the Risk of Type 2 Diabetes: A Large, Population-Based Cohort Study in Japan  
*H. Miidera, M. Enomoto, S. Kitamura, H. Tachimori, and K. Mishima*
- ➡ **894** Impact of Glucose Level on Micro- and Macrovascular Disease in the General Population: A Mendelian Randomization Study  
*F. Emanuelsson, S. Marott, A. Tybjaerg-Hansen, B.G. Nordestgaard, and M. Benn*

## Novel Communications in Diabetes

- 903** Racial Ethnic Disparities in Youth With Type 1 Diabetes Participating in Diabetes Summer Camps  
*J.M. Valenzuela, S.E. Records, K.A. Mueller, M.T. Martin, and R.M. Wolf*
- 906** Complications of Antenatal Corticosteroids in Infants Born by Early Term Scheduled Cesarean Section  
*K. Gupta, R. Rajagopal, F. King, and D. Simmons*
- 909** Homozygous Hypomorphic *HNF1A* Alleles Are a Novel Cause of Young-Onset Diabetes and Result in Sulfonylurea-Sensitive Diabetes  
*S. Misra, N. Hassanali, A.J. Bennett, A. Juszczak, R. Caswell, K. Colclough, J. Valabhji, S. Ellard, N.S. Oliver, and A.L. Gloyn*

- 913** Autoantibody Reversion: Changing Risk Categories in Multiple-Autoantibody-Positive Individuals  
*M. So, C. O'Rourke, H.T. Bahnson, C.J. Greenbaum, and C. Speake*
- 918** Prevalence and Prevention of Contact Dermatitis Caused by FreeStyle Libre: A Monocentric Experience  
*J. Pyl, E. Dendooven, I. Van Eekelen, M. den Brinker, H. Dotremont, A. France, K. Foubert, L. Pieters, J. Lambert, C. De Block, and O. Aerts*
- 921** Trends in Clinical Characteristics and Prescribing Preferences for SGLT2 Inhibitors and GLP-1 Receptor Agonists, 2013–2018  
*C.V. Dave, S. Schneeweiss, D.J. Wexler, G. Brill, and E. Patorno*

## Meta-analysis

- 925** Establishment and Validation of a Risk Prediction Model for Early Diabetic Kidney Disease Based on a Systematic Review and Meta-Analysis of 20 Cohorts  
*W. Jiang, J. Wang, X. Shen, W. Lu, Y. Wang, W. Li, Z. Gao, J. Xu, X. Li, R. Liu, M. Zheng, B. Chang, J. Li, J. Yang, and B. Chang*

## Erratum

- 934** Erratum. Who Is Enrolling? The Path to Monitoring in Type 1 Diabetes TrialNet's Pathway to Prevention. *Diabetes Care* 2019;42:2228–2236  
*E.K. Sims, S. Geyer, S.B. Johnson, I. Libman, L.M. Jacobsen, D. Boulware, L.E. Rafkin, D. Matheson, M.A. Atkinson, H. Rodriguez, M. Spall, H. Elding Larsson, D.K. Wherrett, C.J. Greenbaum, J. Krischer, L.A. DiMeglio, and the Type 1 Diabetes TrialNet Study Group*

## Issues and Events

- 935** Issues and Events

## e-Letters – Observations

- e45** Association of Silent Myocardial Infarction With Major Cardiovascular Events in Diabetes: The ACCORD Trial  
*M.J. Singleton, C.A. German, A.G. Bertoni, W.T. Ambrosius, P.D. Bhave, E.Z. Soliman, and J. Yeboah*
- e47** Burden of Complications in U.S. Adults With Young-Onset Type 2 or Type 1 Diabetes  
*M. Fang, J.B. Echouffo-Tcheugui, and E. Selvin*
- e50** Impact of Higher Insulin Prices on Out-of-Pocket Costs in Medicare Part D  
*C.-W. Tseng, C. Masuda, R. Chen, and D.M. Hartung*

## e-Letters – Comments and Responses

- e52** Comment on Šoupal et al. Glycemic Outcomes in Adults With T1D Are Impacted More by Continuous Glucose Monitoring Than by Insulin Delivery Method: 3 Years of Follow-up From the COMISAIR Study. *Diabetes Care* 2020;43:37–43  
*C. Telliam and C. Thivolet*
- e54** Response to Comment on Šoupal et al. Glycemic Outcomes in Adults With T1D Are Impacted More by Continuous Glucose Monitoring Than by Insulin Delivery Method: 3 Years of Follow-up From the COMISAIR Study. *Diabetes Care* 2020;43:37–43  
*J. Šoupal and C.G. Parkin*