In This Issue

1 In This Issue of Diabetes Care

Editor’s Commentary

3 Diabetes Care: “Taking It to the Limit One More Time”

W.T. Cefalu, A.J.M. Boulton, W.V. Tamborlane,
R.G. Moses, D. LeRoith, E.L. Greene, F.B. Hu, G. Bakris,
J. Wylie-Rosett, J. Rosenstock, S.E. Kahn, K. Weinger,
L. Blonde, M. de Groot, S. Rich, D. D’Alessio, L. Reynolds,
and M.C. Riddle

Clinical Care/Education/Nutrition/Psychosocial Research

7 Glucose Metabolism After Gastric Banding and Gastric
Bypass in Individuals With Type 2 Diabetes: Weight
Loss Effect

M.M. Holter, R. Dutia, S.M. Stano, R.L. Prigeon, P. Homel,
J.J. McGinity Jr., S.J. Belsley, C.J. Ren, D. Rosen, and B. Laferrère

16 Hba1c, and the Prediction of Type 2 Diabetes in Children
and Adults

P. Vijayakumar, R.G. Nelson, R.L. Hanson, W.C. Knower,
and M. Sinha

Epidemiology/Health Services Research

22 High Fasting Plasma Glucose, Diabetes, and Its Risk Factors
From the Global Burden of Disease Study 2013

M. Moradi-Lakeh, M.H. Forouzanfar, C. El Bcheraoui, F. Daoud,
A. Afshin, S.W. Hanson, T. Vos, M. Naghavi, C.J.L. Murray,
and A.H. Mokdad, on behalf of the Global Burden of
Disease Collaborators on Eastern Mediterranean Region
and Diabetes

30 Influence of Hba1c, and BMI on Lipid Trajectories in Youths
and Young Adults With Type 1 Diabetes

M.L. Kott, C.R. Kollman, C.E. Dougher, M. Mubasher,
and L.M.B. Laffel

38 Long-term Mortality and End-Stage Renal Disease in a Type 1
Diabetes Population Diagnosed at Age 15–29 Years in Norway
V. Gagnum, L.C. Stene, T. Leivestad, G. Joner, and T. Skrivarhaug

46 The Association of Arsenic Exposure and Metabolism With
Type 1 and Type 2 Diabetes in Youth: The SEARCH
Case-Control Study

M. Grau-Pérez, C.-C. Kuo, M. Sprattlen, K.A. Thayer, M.A. Mendez,
R.F. Homman, D. Dabelea, J.L. Adgate, W.C. Knower, R.A. Bell,
F.W. Miller, A.D. Liese, C. Zhang, C. Douillet, Z. Drobnjak,
E.J. Mayer-Davis, M. Styblo, and A. Novas-Acien

Emerging Technologies and Therapeutics

54 Metformin Is Associated With Higher Relative Abundance
of Mucin-Degrading Akkermansia muciniphila and Several
Short-Chain Fatty Acid–Producing Microbiota in the Gut

J. de la Cuesta-Zuluaga, N.T. Mueller, V. Corrales-Agueldo,
E.P. Vélasquez-Mejia, J.A. Carmona, J.M. Abad, and
J.S. Escobar

63 Accuracy and Longevity of an Implantable Continuous
Glucose Sensor in the PRECISE Study: A 180-Day,
Prospective, Multicenter, Pivotal Trial

J. Kropp, P. Choudhary, S. Neupane, K. Barnard,
S.C. Bain, C. Kapitza, T. Forst, M. Link, A. Dehennis,
and J.H. DeVries

Pathophysiology/Complications

69 Effect of Saxagliptin on Renal Outcomes in the SAVOR-
TIMI 53 Trial

O. Mosenzon, G. Leibowitz, D.L. Bhattacharjee, C. Wei,
K. Im, A. Rosenberg, I. Yanur, C. Stahre, K.K. Ray, N. Iqbal,
E. Braunwald, B.M. Scirica, and I. Raz

77 Long-term Protective Changes in Adipose Tissue After
Gastric Bypass

J. Hoffstedt, D.P. Andersson, D. Eriksson Hogling,
J. Theorell, E. Näslund, A. Thorell, A. Ehrlund, M. Rydén,
and P. Arner

85 Adiponectin, Insulin Sensitivity, β-Cell Function,
and Racial/Ethnic Disparity in Treatment Failure Rates
in TODAY

S. Arslanian, L. El ghormli, F. Bacha, S. Caprio, R. Goland,
M.W. Haymond, L. Levitsky, R.J. Nadeau, N.H. White, and
S.M. Willi, for the TODAY Study Group

94 Cardiovascular Autonomic Neuropathy and Cardiovascular
Outcomes in the Diabetes Control and Complications
Trial/Epidemiology of Diabetes Interventions and
Complications (DCCT/EDIC) Study

R. Pop-Busui, B.H. Broffett, B. Zinnman, C. Martin, N.H. White,
W.H. Herman, S. Genuoth, R. Gubitosi-Klug, and the DCCT/EDIC
Research Group

101 Role of Type 2 Diabetes in Determining Retinal, Renal,
and Cardiovascular Outcomes in Women With Previous
Gestational Diabetes Mellitus

R. Sethnkar and B.R. Shah

109 Nonalcoholic Fatty Liver Disease Is Prevalent in Women
With Prior Gestational Diabetes Mellitus and Independently
Associated With Insulin Resistance and Waist Circumference
S. Foghsgaard, C. Andreasen, L. Vedtofte, E.S. Andersen, E. Bahne,
C. Strandberg, T. Buhl, J.I. Holst, J.A. Sore, T.D. Clausen,

Cardiovascular and Metabolic Risk

117 Effects of Lisoglutide on Heart Rate and Heart Rate
Variability: A Randomized, Double-Blind, Placebo-Controlled
Crossover Study

P. Kumarathurai, C. Anholm, B.S. Larsen, R.H. Olsen,
S. Madsbad, G. Kristiansen, O.W. Nielsen, S.B. Haugaard,
and A. Sojadeh

125 Long-term Prediction of Cardiovascular Outcomes by
Circulating CD34+ and CD34+CD133+ Stem Cells in Patients
With Type 2 Diabetes
G.P. Fadini, M. Rigato, R. Cappellari, B.M. Bonora,
and A. Avogaro

Novel Communications in Diabetes

132 Low-Carbohydrate Diet Impairs the Effect of Glucagon
in the Treatment of Insulin-Induced Mild Hypoglycemia:
A Randomized Crossover Study
A. Ranjan, S. Schmidt, K. Damm-Frydenberg, J. Steineck,
T.R. Clausen, J.J. Holst, J.A. Sore, T.D. Clausen,
and P. Arner

Position Statements

136 Diabetic Neuropathy: A Position Statement by the American
Diabetes Association
R. Pop-Busui, A.J.M. Boulton, E.L. Feldman, V. Bril,
R. Freeman, R.A. Malik, J.M. Sosenko, and D. Ziegler
Glucose Concentrations of Less Than 3.0 mmol/L (54 mg/dL) Should Be Reported in Clinical Trials: A Joint Position Statement of the American Diabetes Association and the European Association for the Study of Diabetes

International Hypoglycaemia Study Group

Issues and Events

e-Letters — Comments and Responses

e3  Comment on Pinsker et al. Randomized Crossover Comparison of Personalized MPC and PID Control Algorithms for the Artificial Pancreas. Diabetes Care 2016;39:1135–1142

G.M. Steil


Home Monitoring of Fasting and Postprandial Triglycerides in Late Pregnancy: A Pilot Study


The American Diabetes Association (ADA) is the nation’s leading voluntary health organization supporting diabetes research, information, and advocacy. Its mission is to prevent and cure diabetes and to improve the lives of all people affected by diabetes. ADA is the leading publisher of comprehensive diabetes information. Its huge library of books and periodicals covers every aspect of diabetes and diabetes care.

To join ADA: Call 1-800-806-7801 or visit professional.diabetes.org/membership

To subscribe to ADA journals: Call 1-800-DIABETES or go to diabetesjournals.org

To order ADA books: Call 1-800-232-6733 or visit shopdiabetes.org

For more information about diabetes or ADA programs and services: Call 1-800-DIABETES. E-mail: AskADA@diabetes.org or visit diabetes.org

To locate an ADA/NCQA Recognized Provider of quality diabetes care in your area: Visit recognition.ncqa.org

To join the fight to increase funding for diabetes research, end discrimination, and improve insurance coverage: Call 1-800-DIABETES or visit diabetes.org/advocacy

To find out how you can get involved with the programs in your community: Call 1-800-DIABETES or visit diabetes.org/in-my-community

To find out about important research regarding diabetes: Go to diabetes.org/research-and-practice

To make a donation or memorial contribution: Call 1-800-DIABETES or visit diabetes.org/donate

Cover: Barren Tree and Cottage On Snow Landscape. Credit: Ivary. For more information, please visit gettyimages.com.