

All articles in *Diabetes Care* are available on the World Wide Web at [www.diabetes.org/diabetescare](http://www.diabetes.org/diabetescare). Cover articles (►) are available free of charge. Other articles are available free to print subscribers or can be purchased as PDF files.

## Original Articles

### Clinical Care/Education/Nutrition

- 1039** High-viscosity hydroxypropylmethylcellulose blunts postprandial glucose and insulin responses  
K.C. Maki, M.L. Carson, M.P. Miller, M. Turowski, M. Bell, D.M. Wilder, M.S. Reeves
- 1044** Using continuous glucose monitoring to measure the frequency of low glucose values when using biphasic insulin aspart 30 compared with biphasic human insulin 30: a double-blind crossover study in individuals with type 2 diabetes  
P.G. McNally, J.D. Dean, A.D. Morris, P.D. Wilkinson, G. Compion, S.R. Heller
- 1049** A1C and survival in maintenance hemodialysis patients  
K. Kalantar-Zadeh, J.D. Kopple, D.L. Regidor, J. Jing, C.S. Shinaberger, J. Aronovitz, C.J. McAllister, D. Whellan, K. Sharma
- 1056** Microvascular complications in cystic fibrosis-related diabetes  
S.J. Schwarzenberg, W. Thomas, T.W. Olsen, T. Grover, D. Walk, C. Milla, A. Moran
- 1062** Androgenicity of progestins in hormonal contraceptives and the risk of gestational diabetes mellitus  
M.M. Hedderson, A. Ferrara, M.A. Williams, V.L. Holt, N.S. Weiss
- 1069** Increased second trimester maternal glucose levels are related to extremely large-for-gestational-age infants in women with type 1 diabetes  
A. Kerssen, H.W. de Valk, G.H.A. Visser
- 1075** Serum alanine aminotransferase levels decrease further with carbohydrate than fat restriction in insulin-resistant adults  
M.C. Ryan, F. Abbasi, C. Lamendola, S. Carter, T.L. McLaughlin
- 1081** Motivational interviewing improves weight loss in women with type 2 diabetes  
D.S. West, V. DiLillo, Z. Bursac, S.A. Gore, P.G. Greene
- 1088** Knowledge on inpatient diabetes among fourth-year medical students  
M.C. Lansang, H. Harrell
- 1092** Chromium treatment has no effect in patients with type 2 diabetes in a Western population: a randomized, double-blind, placebo-controlled trial  
N. Kleefstra, S.T. Houweling, S.J.L. Bakker, S. Verhoeven, R.O.B. Gans, B. Meyboom-de Jong, H.J.G. Bilo
- Epidemiology/Health Services/Psychosocial Research**
- 1097** Rising incidence of type 2 diabetes in children in the U.K.  
L. Haines, K.C. Wan, R. Lynn, T.G. Barrett, J.P.H. Shield
- 1102** Efficacy and cost of postpartum screening strategies for diabetes among women with histories of gestational diabetes mellitus  
C. Kim, W.H. Herman, S. Vijan
- 1107** Identification of distinct self-management styles of adolescents with type 1 diabetes  
S. Schneider, R.J. Iannotti, T.R. Nansel, D.L. Haynie, B. Simons-Morton, D.O. Sobel, L. Zeitzoff, L. Clark, L.P. Plotnick

### Emerging Treatments and Technologies

- 1113** Noninvasive assessment of plaque characteristics with multislice computed tomography coronary angiography in symptomatic diabetic patients  
G. Pundziute, J.D. Schuijff, J.W. Jukema, E. Boersma, A.J.H.A. Scholte, L.J.M. Kroft, E.E. van der Wall, J.J. Bax
- 1120** Noninvasive type 2 diabetes screening: superior sensitivity to fasting plasma glucose and A1C  
J.D. Maynard, M. Rohrscheib, J.F. Way, C.M. Nguyen, M.N. Ediger
- **1125** Accuracy of the 5-day FreeStyle Navigator Continuous Glucose Monitoring System: comparison with frequent laboratory reference measurements  
R.L. Weinstein, S.L. Schwartz, R.L. Brazg, J.R. Bugler, T.A. Peyser, G.V. McGarraugh
- 1131** Prandial insulin dosing using run-to-run control: application of clinical data and medical expertise to define a suitable performance metric  
C.C. Palerm, H. Zisser, W.C. Bevier, L. Jovanović, F.J. Doyle III
- 1137** Benefits of information technology–enabled diabetes management  
D. Bu, E. Pan, J. Walker, J. Adler-Milstein, D. Kendrick, J.M. Hook, C.M. Cusack, D.W. Bates, B. Middleton
- Pathophysiology/Complications**
- 1143** Whole-body glycolysis measured by the deuterated-glucose disposal test correlates highly with insulin resistance in vivo  
C. Beysen, E.J. Murphy, T. McLaughlin, T. Riiff, C. Lamendola, H.C. Turner, M. Awada, S.M. Turner, G. Reaven, M.K. Hellerstein
- 1150** Kidney function after islet transplant alone in type 1 diabetes: impact of immunosuppressive therapy on progression of diabetic nephropathy  
P. Maffi, F. Bertuzzi, F. De Taddeo, P. Magistretti, R. Nano, P. Fiorina, A. Caumo, P. Pozzi, C. Socci, M. Venturini, A. del Maschio, A. Secchi
- 1156** Pro12Ala polymorphism of the PPAR $\gamma$ 2 locus modulates the relationship between energy intake and body weight in type 2 diabetic patients  
O. Vaccaro, E. Lapice, A. Monticelli, M. Giacchetti, I. Castaldo, R. Galasso, M. Pinelli, G. Donnarumma, S. Cocozza, G. Riccardi
- 1162** Clustering of risk factors in parents of patients with type 1 diabetes and nephropathy  
L.M. Thorn, C. Forsblom, J. Fagerudd, K. Pettersson-Fernholm, R. Kilpikari, P.-H. Groop, on behalf of the FinnDiane Study Group
- 1168** Insulin resistance in liver cirrhosis is not associated with circulating retinol-binding protein 4  
E. Yagmur, R. Weiskirchen, A.M. Gressner, C. Trautwein, F. Tacke
- 1173** High circulating retinol-binding protein 4 is associated with elevated liver fat but not with total, subcutaneous, visceral, or intramyocellular fat in humans  
N. Stefan, A.M. Hennige, H. Staiger, J. Machann, F. Schick, E. Schleicher, A. Fritzsche, H.-U. Häring
- 1179** The effect of  $\beta$ -adrenergic and peroxisome proliferator-activated receptor- $\gamma$  stimulation on target genes related to lipid metabolism in human subcutaneous adipose tissue  
I. Bogacka, T.W. Gettys, L. de Jonge, T. Nguyen, J.M. Smith, H. Xie, F. Greenway, S.R. Smith

**1187** Glucose homeostasis and genotype-phenotype interplay in cystic fibrosis patients with CFTR gene ΔF508 mutation  
*V. Preumont, M.P. Hermans, P. Lebecque, M. Buyschaert*

**1193** Global and regional effects of type 2 diabetes on brain tissue volumes and cerebral vasoreactivity  
*D. Last, D.C. Alsop, A.M. Abduljalil, R.P. Marquis, C. de Bazelaire, K. Hu, J. Cavallerano, V. Novak*

**1200** Adipokines and risk of type 2 diabetes in older men  
*S.G. Wannamethee, G.D.O. Lowe, A. Rumley, L. Cherry, P.H. Whincup, N. Sattar*

## Cardiovascular and Metabolic Risk

**1206** The usefulness of the International Diabetes Federation and the National Cholesterol Education Program's Adult Treatment Panel III definitions of the metabolic syndrome in predicting coronary heart disease in subjects with type 2 diabetes  
*P.C. Tong, A.P. Kong, W.-Y. So, X. Yang, C.-S. Ho, R.C. Ma, R. Ozaki, C.-C. Chow, C.W. Lam, J.C.N. Chan, C.S. Cockram*

**1212** Prevalence of nonalcoholic fatty liver disease and its association with cardiovascular disease among type 2 diabetic patients  
*G. Targher, L. Bertolini, R. Padovani, S. Rodella, R. Tessari, L. Zenari, C. Day, G. Arcaro*

**1219** Impact of insulin resistance on risk of type 2 diabetes and cardiovascular disease in people with metabolic syndrome  
*J.B. Meigs, M.K. Rutter, L.M. Sullivan, C.S. Fox, R.B. D'Agostino, Sr., P.W.F. Wilson*

**1226** Endothelial function varies according to insulin resistance disease type  
*J.A. Beckman, A.B. Goldfine, A. Dunai, M. Gerhard-Herman, M.A. Creager*

**1233** Sleep duration and snoring in relation to biomarkers of cardiovascular disease risk among women with type 2 diabetes  
*C.J. Williams, F.B. Hu, S.R. Patel, C.S. Mantzoros*

**1241** Incidence of coronary heart disease in type 2 diabetic men and women: impact of microvascular complications, treatment, and geographic location  
*A. Avogaro, C. Giorda, M. Maggini, E. Mannucci, R. Raschetti, F. Lombardo, S. Spila-Alegiani, S. Turco, M. Velussi, E. Ferrannini, for the Diabetes and Informatics Study Group, Association of Clinical Diabetologists, Istituto Superiore di Sanità*

**1248** The prediction of major outcomes of type 1 diabetes: a 12-year prospective evaluation of three separate definitions of the metabolic syndrome and their components and estimated glucose disposal rate: the Pittsburgh Epidemiology of Diabetes Complications Study experience  
*G. Tamburlo, T. Costacou, T.J. Orchard*

**1255** Masked hypertension, urinary albumin excretion rate, and echocardiographic parameters in putatively normotensive type 2 diabetic patients  
*C.B. Leitão, L.H. Canani, C.K. Kramer, J.C. Boza, A.F. Pinotti, J.L. Gross*

## Brief Reports

### Clinical Care/Education/Nutrition

**1261** Pharmacokinetics and pharmacodynamics of the long-acting insulin analog glargin after 1 week of use compared with its first administration in subjects with type 1 diabetes  
*F. Porcellati, P. Rossetti, N.B. Ricci, S. Pampanelli, E. Torlone, S.H. Campos, A.M. Andreoli, G.B. Bolli, C.G. Fanelli*

**1264** Lowering effect on postprandial glycemic response of nopales added to Mexican breakfasts  
*M. Bacardi-Gascon, D. Dueñas-Mena, A. Jimenez-Cruz*

**1266** Psychosocial outcomes of telemedicine case management for elderly patients with diabetes: the randomized IDEATel trial  
*P.M. Trief, J.A. Teresi, R. Izquierdo, P.C. Morin, R. Goland, L. Field, J.P. Eimicke, R. Brittain, J. Starren, S. Shea, R.S. Weinstock*

**1269** High-intensity training improves plasma glucose and acid-base regulation during intermittent maximal exercise in type 1 diabetes  
*A.R. Harmer, D.J. Chisholm, M.J. McKenna, N.R. Morris, J.M. Thom, G. Bennett, J.R. Flack*

**1272** Influence of mulberry leaf extract on the blood glucose and breath hydrogen response to ingestion of 75 g sucrose by type 2 diabetic and control subjects  
*M. Mudra, N. Ercan-Fang, L. Zhong, J. Furne, M. Levitt*

**1275** Costs of a self-selected, health-promoting diet among the participants of the Finnish Diabetes Prevention Study  
*A.-M. Ottelin, J. Lindström, M. Peltonen, J. Martikainen, M. Uusitupa, H. Gylling, K. Poutanen, A. Louheranta, M. Mannelin, M. Paturi, V. Salminen, J. Tuomilehto, on behalf of the Finnish Diabetes Prevention Study Group*

## Epidemiology/Health Services/Psychosocial Research

**1278** Clinical correlates of circulating visfatin levels in a community-based sample

*E. Ingelsson, M.G. Larson, C.S. Fox, X. Yin, T.J. Wang, I. Lipinska, K.M. Pou, U. Hoffmann, E.J. Benjamin, J.F. Keaney, Jr., R.S. Vasan*

**1281** Burden of hospitalizations primarily due to uncontrolled diabetes: implications of inadequate primary health care in the United States  
*S. Kim*

**1283** Glycemic control and absenteeism among individuals with diabetes  
*K. Tunceli, C.J. Bradley, J.E. Lafata, M. Pladenvall, G.W. Divine, A.C. Goodman, S. Vijan*

## Pathophysiology/Complications

**1286** Risk imparted by various parameters of smoking in Japanese men with type 2 diabetes on their development of microalbuminuria: analysis from the Tsukuba Kawai Diabetes Registry

*K. Saito, H. Sone, K. Kawai, S. Tanaka, S. Kodama, M. Shu, E. Suzuki, K. Kondo, S. Yamamoto, H. Shimano, Y. Ohashi, N. Yamada*

**1289** Preβ1-HDL concentration is a predictor of carotid atherosclerosis in type 2 diabetic patients  
*S. Hirayama, T. Miida, O. Miyazaki, Y. Aizawa*

## Cardiovascular and Metabolic Risk

► **1292** Framingham, SCORE, and DECODE risk equations do not provide reliable cardiovascular risk estimates in type 2 diabetes  
*R.L. Coleman, R.J. Stevens, R. Retnakaran, R.R. Holman*

## Reviews/Commentaries/ADA Statements

### ► 1295 Review

Cardiac imaging for risk stratification in diabetes  
*J.J. Bax, S.E. Inzucchi, R.O. Bonow, J.D. Schuijff, M.R. Freeman, E.J. Barrett, on behalf of the Global Dialogue Group for the Evaluation of Cardiovascular Risk in Patients with Diabetes*

### 1305 Review

Significance of endothelial progenitor cells in subjects with diabetes  
*G.P. Fadini, S. Sartore, C. Agostini, A. Avogaro*

### 1314 Review

Recurrence of gestational diabetes mellitus: a systematic review  
*C. Kim, D.K. Berger, S. Chamany*

### 1320 Perspectives on the News

Insulin resistance concepts  
*Z.T. Bloomgarden*

**1327 Key Global Literature**

**1329 Errata**

**1331 Issues and Updates**

**1332 SI Units Table**

**1333 Classified Advertising**

## Diabetes Care Electronic Pages

Available at <http://care.diabetesjournals.org>

### Online Letters: Observations

**e28** Sulfonylurea treatment in young children with neonatal diabetes: dealing with hyperglycemia, hypoglycemia, and sick days  
*E. Codner, S.E. Flanagan, F. Ugarte, H. García, T. Vidal, S. Ellard, A.T. Hattersley*

**e30** Proportion of diabetes type in early-onset diabetes in Japan  
*Y. Ogawa, Y. Uchigata, T. Otani, Y. Iwamoto*

**e31** Plasma PAI-1 levels are increased in patients with nonalcoholic steatohepatitis  
*G. Targher, L. Bertolini, L. Scala, L. Zenari, G. Lippi, M. Franchini, G. Arcaro*

**e33** Correspondence between the International Diabetes Federation criteria for metabolic syndrome and insulin resistance in a cohort of Italian nondiabetic Caucasians: the GISIR database  
*G. Sesti, B. Capaldo, P.C. Perin, S. Del Prato, L. Frittitta, S. Frontoni, M.L. Hribal, G. Marchesini, G. Paolisso, P.M. Piatti, A. Solini, E. Bonora, on behalf of the Group of Italian Scientists of Insulin Resistance (GISIR)*

### Online Letters: Comments and Responses

**e34** On real-time estimates of blood glucose levels: response to Garg et al. and Deiss et al.  
*G. Treviño*

**e35** On real-time estimates of blood glucose levels: response to Treviño  
*S.K. Garg*

**e37** On real-time estimates of blood sugar levels: response to Treviño  
*J. Bolinder, D. Deiss, M. Phillip, for the Guard Control Study Group*

**e38** Isn't this just snacking? The potential adverse effects of night-eating symptoms on treatment adherence and outcomes in patients with diabetes: response to Morse et al.  
*K. Nonogaki, K. Tateishi, N. Nonogaki*

**e39** Isn't this just snacking? The potential adverse effects of night-eating symptoms on treatment adherence and outcomes in patients with diabetes: response to Nonogaki et al.  
*S.A. Morse*

**e40** Minimum waist and visceral fat values for identifying Japanese Americans at risk for the metabolic syndrome: response to Hayashi et al.  
*E. Oda*

**e41** Minimum waist and visceral fat values for identifying Japanese Americans at risk for the metabolic syndrome: response to Oda T. Hayashi, E.J. Boyko, M.J. McNeely, D.L. Leonetti, S.E. Kahn, W.Y. Fujimoto

**e42** New insights on the simultaneous assessment of insulin sensitivity and  $\beta$ -cell function with the HOMA2 method: response to Caumo et al.  
*S. Nagasaka, N. Sato, N. Takahashi, I. Kusaka, S. Ishibashi*

**e43** New insights on the simultaneous assessment of insulin sensitivity and  $\beta$ -cell function with the HOMA2 method: response to Nagasaka et al.  
*A. Caumo, G. Perseghin, A. Brunani, L. Luzi*

**e44** Clinical implications of the DREAM study: response to Davidson  
*M. Kanat*

**e45** Clinical implications of the DREAM study: response to Kanat M.B. Davidson

**e46** Diabetes reporting as a cause of death: results from the Translating Research Into Action for Diabetes (TRIAD) study: response to McEwen et al.  
*T.-H. Lu, M.-S. Lai, R.N. Anderson, C.-N. Huang*

**e47** The sensitivity and specificity of nonmydriatic digital stereoscopic retinal imaging in detecting diabetic retinopathy: response to Ahmed et al.  
*R. Raman, P.K. Rani, T. Sharma*