

All articles in *Diabetes Care* are available on the World Wide Web at 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.

Editorials

569 Impaired glucose tolerance: the irrepressible α -cell?
E. Ipp

571 Nighttime continuous subcutaneous insulin infusion revisited: a strategy for improving insulin delivery
A. Schiffrin

574 Therapeutic importance of subsets of type 2 diabetes?
J.P. Palmer

576 Insulin glargine (HOE901): first responsibilities: understanding the data and ensuring safety
J. Buse

Original Articles

Clinical Care/Education/Nutrition

► **579** Use of insulin pump therapy at nighttime only for children 7–10 years of age with type 1 diabetes
E.R. Kaufman, M. Halvorson, C. Kim, P. Pitukcheewanont

583 Use of insulin aspart, a fast-acting insulin analog, as the mealtime insulin in the management of patients with type 1 diabetes
P. Raskin, R.A. Guthrie, L. Leiter, A. Riis, L. Jovanovic

Epidemiology/Health Services/Psychosocial Research

► **589** Consequences of a family history of type 1 and type 2 diabetes on the phenotype of patients with type 2 diabetes
H. Li, B. Isomaa, M.-R. Taskinen, L. Groop, T. Tuomi

595 Diabetes in the Old Order Amish: characterization and heritability analysis of the Amish Family Diabetes Study
W.-C. Hsueh, B.D. Mitchell, R. Aburomia, T. Pollin, H. Sakul, M.G. Ehm, B.K. Michelsen, M.J. Wagner, P.L. St. Jean, W.C. Knowler, D.K. Burns, C.J. Bell, A.R. Shuldiner

602 Sex differentials in predictors of mortality for patients with adult-onset diabetes: a population-based follow-up study in Beer-Sheva, Israel
A. Biderman, I. Rosenblatt, S. Rosen, L.M. Zangwill, R. Shalev, M. Friger, S. Weitzman

606 Screening techniques to identify people at high risk for diabetic foot ulceration: a prospective multicenter trial
H. Pham, D.G. Armstrong, C. Harvey, L.B. Harkless, J.M. Giurini, A. Veves

612 Impact of diabetes on crash risks of truck-permit holders and commercial drivers
C. Laberge-Nadeau, G. Dionne, J.-M. Ékoé, P. Hamet, D. Desjardins, S. Messier, U. Maag

618 Fluoxetine for depression in diabetes: a randomized double-blind placebo-controlled trial
P.J. Lustman, K.E. Freedland, L.S. Griffith, R.E. Clouse

624 Heart rate in relation to insulin sensitivity and insulin secretion in nondiabetic subjects
A. Festa, R. D'Agostino Jr., C.N. Hales, L. Mykkanen, S.M. Haffner

Emerging Treatments and Technologies

629 Optimized basal-bolus therapy using a fixed mixture of 75% lispro and 25% NPL insulin in type 1 diabetes patients: no favorable effects on glycemic control, physiological responses to hypoglycemia, well-being, or treatment satisfaction
M.M.J. Janssen, F.J. Snoek, N. Masarel, R.P.L.M. Hoogma, W.L. Devillé, C. Popp-Snijders, R.J. Heine

634 Efficacy of injected liquid silicone in the diabetic foot to reduce risk factors for ulceration: a randomized double-blind placebo-controlled trial
C.H.M. van Schie, A. Whalley, L. Vileikyte, T. Wignall, S. Hollis, A.J.M. Boulton

► **639** Less hypoglycemia with insulin glargine in intensive insulin therapy for type 1 diabetes
R.E. Ratner, I.B. Hirsch, J.L. Neifing, S.K. Garg, T.E. Mecca, C.A. Wilson, for the U.S. Study Group of Insulin Glargine in Type 1 Diabetes

644 Time-action profile of the long-acting insulin analog insulin glargine (HOE901) in comparison with those of NPH insulin and placebo
L. Heinemann, R. Linkeschova, K. Rave, B. Hompesch, M. Sedlak, T. Heise

Pathophysiology/Complications

► **650** Islet dysfunction in insulin resistance involves impaired insulin secretion and increased glucagon secretion in postmenopausal women with impaired glucose tolerance
H. Larsson, B. Åhrén

658 Hemodynamic effects of acute hyperglycemia in type 2 diabetic patients
R. Marfella, F. Nappo, L. De Angelis, G. Paolisso, M.R. Tagliamonte, D. Giugliano

664 Urinary transforming growth factor- β 1 and α 1-microglobulin in children and adolescents with type 1 diabetes
E. Korpinen, A.-M. Teppo, L. Hukkanen, H.K. Åkerblom, C. Grönhagen-Riska, O. Vaarala

669 Apolipoprotein E isoform polymorphisms are not associated with insulin resistance: the Framingham Offspring Study
J.B. Meigs, J.M. Ordovas, L.A. Cupples, D.E. Singer, D.M. Nathan, E.J. Schaefer, P.W.F. Wilson

675 Repaglinide acutely amplifies pulsatile insulin secretion by augmentation of burst mass with no effect on burst frequency
C.B. Juhl, N. Pørksen, M. Hollingdal, J. Sturis, S. Pincus, J.D. Veldhuis, A. Dejgaard, O. Schmitz

Reviews/Commentaries/Position Statements

682 Standards and Review Criteria

National standards for diabetes self-management education
C. Mensing, J. Boucher, M. Cypress, K. Weinger, K. Mulcahy, P. Barta, G. Hosey, W. Kopher, A. Lasichak, B. Lamb, M. Mangan, J. Norman, J. Tanja, L. Yauk, K. Wisdom, C. Adams

Table of Contents continues on page iv

690 Perspectives on the News

American Diabetes Association Annual Meeting, 1999:
dyslipidemia, endothelial dysfunction, and glycosylation
Z.T. Bloomgarden

Letters: Observations

699 Venlafaxine HCl in the treatment of painful peripheral
diabetic neuropathy

J.A. Kiyias, E.D. Vlachou, E. Lakka-Papadodima

699 Bilateral diabetic infarction of the anterior tibial muscle
K. Spengos, J.C. Wöhrle, J. Binder, A. Schwartz, M. Hennerici

701 Function of pancreatic islets isolated from a type 1
diabetic patient

*P. Marchetti, F. Dotta, Z. Ling, R. Lupi, S. Del Guerra,
C. Santangelo, M. Realacci, L. Marselli, U. Di Mario, R. Navalesi*

703 Circulating levels of coagulation factor XIII in subjects
with type 2 diabetes and in their first-degree relatives

*M.W. Mansfield, H.P. Kohler, R.A.S. Ariëns, L.J. McCormack,
P.J. Grant*

705 Effect of aldose reductase inhibitor on cutaneous nerve
fiber length in diabetic patients

*H. Yasuda, A. Hirai, M. Joko, M. Terada, T. Kawabata, K. Maeda,
M. Haneda, A. Kashiwagi, T. Maeda, R. Kikkawa*

705 Prevalence of diabetes in adult patients
with Down's syndrome living in a residential home

*Y. Ohyama, T. Utsugi, T. Uchiyama, T. Hanaoka, S. Tomono,
M. Kurabayashi*

706 Effect of data management on a central server on HbA_{1c}
levels in insulin-requiring patients

M.B. Davidson, G. Lewis

707 Prevalence of diabetes, impaired glucose tolerance,
and impaired fasting glucose in a rural population of Korea,
according to 1997 American Diabetes Association and 1985
World Health Organization criteria

*J.-Y. Park, Y.I. Kim, C.S. Choi, Y.E. Chung, S.-W. Kim, M.-S. Lee,
S.I. Lee, S.K. Hong, K.-U. Lee*

708 Rapid remission of nephrotic-range proteinuria in a case of
histologically proven diabetic nephropathy treated with an ACE
inhibitor

R. Suzuki, A. Shimada, K. Konishi, T. Saruta

710 Interesting insulin response to oral glucose load in young
Japanese subjects with impaired glucose tolerance

Y. Tanaka, Y. Atsumi, K. Matsuoka, T. Onuma, R. Kawamori

Letters: Comments and Responses

712 An equation for insulin sensitivity index

J.S. Cheng

712 Response to Cheng

R.A. DeFronzo

712 Effect of gluten-free diet on the metabolic control of type 1
diabetes in patients with diabetes and celiac disease

D. Iafusco, F. Rea, F. Chiarelli, A. Mohn, F. Prisco

713 Response to Iafusco et al.: effect of gluten-free diet on the
metabolic control of type 1 diabetes in patients with diabetes
and celiac disease

K. Kaukinen, J. Salmi, J. Lahtela, H. Oksa, P. Collin

714 Prediction of albumin excretion rate from albumin-to-
creatinine ratio

T. Cundy, J. Baker

714 Response to Cundy and Baker

J.N. Harvey

714 Is there any use for the oral glucose tolerance test?

O. Vaccaro, G. Ruffa, G. Riccardi

716 Issues and Updates

717 SI Units Table

MAY AUTHOR INDEX
(VOLUME 23, NUMBER 5)

- Aburomia, R., 595
Adams, C., 682
Ahrén, B., 650
Åkerblom, H.K., 664
Ariëns, R.A.S., 703
Armstrong, D.G., 606
Atsumi, Y., 710
- Baker, J., 714
Barta, P., 682
Bell, C.J., 595
Biderman, A., 602
Binder, J., 699
Bloomgarden, Z.T., 690
Boucher, J., 682
Boulton, A.J.M., 634
Burns, D.K., 595
Buse, J., 576
- Cheng, J.S., 712
Chiarelli, E., 712
Choi, C.S., 707
Chung, Y.E., 707
Clouse, R.E., 618
Collin, P., 713
Cundy, T., 714
Cupples, L.A., 669
Cypress, M., 682
- D'Agostino Jr., R., 624
Davidson, M.B., 706
De Angelis, L., 658
DeFronzo, R.A., 712
Dejgaard, A., 675
Del Guerra, S., 701
Desjardins, D., 612
Devillé, W.L., 629
Di Mario, U., 701
Dionne, G., 612
Dotta, F., 701
- Ehm, M.G., 595
Ékoé, J.-M., 612
Festa, A., 624
Freedland, K.E., 618
Friger, M., 602
- Garg, S.K., 639
Giugliano, D., 658
Giurini, J.M., 606
Grant, P.J., 703
Griffith, L.S., 618
Grönhagen-Riska, C., 664
Groop, L., 589
- Guthrie, R.A., 583
- Haffner, S.M., 624
Hales, C.N., 624
Halvorson, M., 579
Hamet, P., 612
Hanaoka, T., 705
Haneda, M., 705
Harkless, L.B., 606
Harvey, C., 606
Harvey, J.N., 714
Heine, R.J., 629
Heinemann, L., 644
Heise, T., 644
Hennerici, M., 699
Hirai, A., 705
Hirsch, I.B., 639
Hollingdal, M., 675
Hollis, S., 634
Hompesch, B., 644
Hong, S.K., 707
Hoogma, R.P.L.M., 629
Hosey, G., 682
Hsueh, W.-C., 595
Hukkanen, L., 664
- Iafusco, D., 712
Ipp, E., 569
Isomaa, B., 589
- Janssen, M.M.J., 629
Jovanovic, L., 583
Joko, M., 705
Juhl, C.B., 675
- Kashiwagi, A., 705
Kaufman, E.R., 579
Kaukinen, K., 713
Kawabata, T., 705
Kawamori, R., 710
Kiayias, J.A., 699
Kikkawa, R., 705
Kim, C., 579
Kim, S.-W., 707
Kim, Y.I., 707
Knowler, W.C., 595
Kohler, H.P., 703
Konishi, K., 708
Kopher, W., 682
Korpinen, E., 664
Kurabayashi, M., 705
- Laberge-Nadeau, C., 612
Lahtela, J., 713
Lakka-Papadodima, E., 699
Lamb, B., 682
Larsson, H., 650
Lasichak, A., 682
Lee, K.-U., 707
- Lee, M.-S., 707
Lee, S.I., 707
Leiter, L., 583
Lewis, G., 706
Li, H., 589
Ling, Z., 701
Linkeschova, R., 644
Lupi, R., 701
Lustman, P.J., 618
- Maag, U., 612
Maeda, K., 705
Maeda, T., 705
Mangan, M., 682
Mansfield, M.W., 703
Marchetti, P., 701
Marfella, R., 658
Marselli, L., 701
Masurel, N., 629
Matsuoka, K., 710
McCormack, L.J., 703
Mecca, T.E., 639
Meigs, J.B., 669
Mensing, C., 682
Messier, S., 612
Michelsen, B.K., 595
Mitchel, B.D., 595
Mohn, A., 712
Mulcahy, K., 682
Mykkänen, L., 624
- Nappo, F., 658
Nathan, D.M., 669
Navalesi, R., 701
Neifing, J.L., 639
Norman, J., 682
- Ohyama, Y., 705
Oksa, H., 713
Onuma, T., 710
Ordovas, J.M., 669
- Palmer, J.P., 574
Paolisso, G., 658
Park, J.-Y., 707
Pham, H., 606
Pincus, S., 675
Pitukcheewanont, P., 579
Pollin, T., 595
Popp-Snijders, C., 629
Pørksen, N., 675
Prisco, F., 712
- Raskin, P., 583
Ratner, R.E., 639
Rave, K., 644
Rea, F., 712
Realacci, M., 701
Riccardi, G., 714
- Riis, A., 583
Rosen, S., 602
Rosenblatt, I., 602
Ruffa, G., 714
- Sakul, H., 595
Salmi, J., 713
Santangelo, C., 701
Saruta, T., 708
Schaefer, E.J., 669
Schiffirin, A., 571
Schmitz, O., 675
Schwartz, A., 699
Sedlak, M., 644
Shalev, R., 602
Shimada, A., 708
Shuldiner, A.R., 595
Singer, D.E., 669
Snoek, F.J., 629
Spengos, K., 699
St. Jean, P.L., 595
Sturis, J., 675
Suzuki, R., 708
- Tagliamonte, M.R., 658
Tanaka, Y., 710
Tanja, J., 682
Taskinen, M.-R., 589
Teppo, A.-M., 664
Terada, M., 701
Tomono, S., 705
Tuomi, T., 589
- Uchiyama, T., 705
Utsugi, T., 705
- Vaara, O., 664
Vaccaro, O., 714
van Schie, C.H.M., 634
Veldhuis, J.D., 675
Veves, A., 606
Vileikyte, L., 634
Vlachou, E.D., 699
- Wagner, M.J., 595
Weinger, K., 682
Weitzman, S., 602
Whalley, A., 634
Wignall, T., 634
Wilson, C.A., 639
Wilson, P.W.F., 669
Wisdom, K., 682
Wöhrle, J.C., 699
- Yasuda, H., 705
Yauk, L., 682
- Zangwill, L.M., 602