

Michaela Diamant, 11 April 1962–9 April 2014

Robert J. Heine · Hannele Yki-Järvinen ·
Steven E. Kahn · Daniel H. van Raalte

Received: 11 April 2014 / Accepted: 11 April 2014 / Published online: 6 May 2014
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Professor Michaela Diamant, MD, PhD, FRCPE, died on 9 April 2014 at the age of only 51 years. Michaela was born and grew up in Prague, Czech Republic. Following her family's move to the Netherlands, she obtained an MD degree in 1987, *summa cum laude*, from Leiden University and earned her PhD in 1991 with a thesis entitled 'Neuropeptides, autonomic stress responses and behavior' (Rudolph Magnus Institute, University of Utrecht, the Netherlands). Following her clinical specialty training in internal medicine, she was also certified in nephrology and endocrinology. In 2000 she joined the

Diabetes Center, Department of Endocrinology, at the VU University Medical Center in Amsterdam, headed at the time by Robert J. Heine, whom she succeeded in 2008. In 2009 she became Professor of Diabetology at the VU University in Amsterdam.

Michaela developed a very active and prolific team dedicated primarily to translational research. She championed and contributed greatly to the understanding of diabetic cardiomyopathy [1], cerebral changes in patients with type 1 diabetes [2], clinical use of glucagon-like peptide-1 receptor agonists (GLP-1RAs) [3] and glucocorticoid-induced diabetes [4, 5]. She collaborated with several national and international researchers on basic science topics that were carefully aligned to her translational research programme, and established deep friendships with numerous colleagues throughout the world [6–8]. We are just a few of the many who were fortunate enough to be touched by her.

Her dedication to research was extensive, with over 300 contributions in the form of original papers and book chapters. Michaela was passionate about her research and also expected the same of her PhD students and collaborators; her publications clearly reflect the focus on patients in everything she did. She was a gifted speaker and was invited to talk on her work around the world, typically addressing issues important to both healthcare providers and diabetic individuals.

Michaela was involved in a number of international professional bodies, including being awarded fellowship of the Royal College of Physicians (Edinburgh) in 2011, and was an active member of the Dutch Diabetes Research Association, the EASD and the ADA, all of which she supported in various capacities. Particularly noteworthy was her membership of editorial boards, including working as an Associate Editor for *Diabetologia* between 2005 and 2009, and continuing on the Advisory Board from 2010 to 2011. She was also involved in programme and abstract review committees, as well as the organising committee for the EASD meeting in Amsterdam in

R. J. Heine
Eli Lilly and Company, Indianapolis, IN, USA

H. Yki-Järvinen
University of Helsinki, Helsinki, Finland

S. E. Kahn
University of Washington, Seattle, WA, USA

D. H. van Raalte (✉)
Diabetes Center, VU University Medical Center, PO Box 7057,
1007 MB Amsterdam, the Netherlands
e-mail: d.vanraalte@vumc.nl

2007. She contributed to the most recent EASD/ADA guidelines for the management of hyperglycaemia in type 2 diabetes [9], and to the development and implementation of the Dutch diabetes guidelines. This type of selfless activity was characteristic of Michaela's contribution towards improving the quality of life of individuals with diabetes, as well as their understanding of the disease.

Until the end, she continued to care for her diabetic patients and pursued her research interests at the VU University Medical Center. At the time of her death, Michaela was undertaking studies to better understand the mechanisms and impact of glucocorticoid-induced diabetes [10, 11] and to unravel the renal effects of incretin-based therapies [12]. During her final months, she passionately went about ensuring that her PhD students, fellows and research colleagues were well taken care of. In addition to being an excellent mentor from a scientific standpoint, she was also deeply concerned with the well-being of her students in their lives outside the lab.

Diabetes care and research has lost an ardent and visionary leader whose goal in life was to understand the pathophysiology of diabetes and to develop novel therapeutic approaches to combat hyperglycaemia. She achieved this in part through collaborations with equally passionate friends and colleagues both nationally and internationally. She was a great mentor for her young colleagues and a wonderful collaborator and friend to many in Europe and around the world.

We will dearly miss her.

References

- Rijzewijk LJ, van der Meer RW, Lamb HJ, de Jong HW, Lubberink M, Romijn JA, Bax JJ, de Roos A, Twisk JW, Heine RJ, Lammertsma AA, Smit JW, Diamant M (2009) Altered myocardial substrate metabolism and decreased diastolic function in nonischemic human diabetic cardiomyopathy: studies with cardiac positron emission tomography and magnetic resonance imaging. *J Am Coll Cardiol* 54:1524–1532
- Woerdeman J, van Duinkerken E, Wattjes MP, Barkhof F, Snoek FJ, Moll AC, Klein M, de Boer MP, Ijzerman RG, Serné EH, Diamant M (2014) Proliferative retinopathy in type 1 diabetes is associated with cerebral microbleeds, which is part of generalized microangiopathy. *Diabetes Care* 37:1165–1168
- Diamant M, Van Gaal L, Stranks S, Northrup J, Cao D, Taylor K, Trautmann M (2010) Once weekly exenatide compared with insulin glargine titrated to target in patients with type 2 diabetes (DURATION-3): an open-label randomised trial. *Lancet* 375:2234–2243
- van Raalte DH, Brands M, van der Zijl NJ, Muskiet MH, Pouwels PJ, Ackermans MT, Sauerwein HP, Serlie MJ, Diamant M (2011) Low-dose glucocorticoid treatment affects multiple aspects of intermediary metabolism in healthy humans: a randomised controlled trial. *Diabetologia* 54:2103–2112
- van Raalte DH, Diamant M, Ouwens DM, Ijzerman RG, Linssen MM, Guigas B, Eringa EC, Serné EH (2013) Glucocorticoid treatment impairs microvascular function in healthy men in association with its adverse effects on glucose metabolism and blood pressure: a randomised controlled trial. *Diabetologia* 56:2383–2391
- Steinbusch LK, Schwenk RW, Ouwens DM, Diamant M, Glatz JF, Luiken JJ (2011) Subcellular trafficking of the substrate transporters GLUT4 and CD36 in cardiomyocytes. *Cell Mol Life Sci* 68:2525–2538
- Linssen MM, van Raalte DH, Toonen EJ, Alkema W, van der Zon GC, Dokter WH, Diamant M, Guigas B, Ouwens DM (2011) Prednisolone-induced beta cell dysfunction is associated with impaired endoplasmic reticulum homeostasis in INS-1E cells. *Cell Signal* 23:1708–1715
- Bunck MC, Cornér A, Eliasson B, Heine RJ, Shaginan RM, Wu Y, Yan P, Smith U, Yki-Järvinen H, Diamant M, Taskinen MR (2010) One-year treatment with exenatide vs. insulin glargine: effects on postprandial glycemia, lipid profiles, and oxidative stress. *Atherosclerosis* 212:223–229
- Inzucchi SE, Bergenstal RM, Buse JB, Diamant M, Ferrannini E, Nauck M, Peters AL, Tsapas A, Wender R, Matthews DR (2012) Management of hyperglycaemia in type 2 diabetes: a patient-centered approach. Position statement of the American Diabetes Association (ADA) and the European Association for the Study of Diabetes (EASD). *Diabetologia* 55:1577–1596
- Brands M, van Raalte DH, João Ferraz M, Sauerwein HP, Verhoeven AJ, Aerts JM, Diamant M, Serlie MJ (2013) No difference in glycosphingolipid metabolism and mitochondrial function in glucocorticoid-induced insulin resistance in healthy men. *J Clin Endocrinol Metab* 98:1219–1225
- van Raalte DH, Diamant M (2014) Steroid diabetes: from mechanism to treatment? *Neth J Med* 72:62–72
- Muskiet MH, Smits MM, Morsink LM, Diamant M (2014) The gut–renal axis: do incretin-based agents confer renoprotection in diabetes? *Nat Rev Nephrol* 10:88–103