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Stephen N. Davis, MBBS

Dr. Theodore E. Woodward Chair in Medicine

Academic Title:

Professor

Primary Appointment:

Medicine

Secondary Appointment(s):

Physiology, Psychiatry

Administrative Title:

Chair, Department of Medicine; Director, General Clinical Research Center; Director, Clinical and Translational Sciences Institute

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Education and Training

- London University, Royal Free School of Medicine, MBBS, 1979

- Royal College of Physicians MRCP, Internal Medicine, 1982
- Royal College of Physicians FRCP, Internal Medicine, 2001

Biosketch

Stephen Davis, M.B.B.S., is the Theodore E. Woodward Professor of Medicine and Chairman of the Department of Medicine, Professor of Physiology and Director of the Center for Diabetes and Endocrinology at the University of Maryland School of Medicine. Dr. Davis is Director of the General Clinical Research Center and the University of Maryland's Clinical Translational Science Institute. He has recently been appointed Vice President of Clinical Translational Science for the University of Maryland, Baltimore. Dr. Davis also serves as Physician-in-Chief at the University of Maryland Medical Center.

An internationally recognized endocrinologist and research scientist, Dr. Davis chairs the University of Maryland School of Medicine's largest department with more than 300 full-time faculty members. A native of the United Kingdom, he has devoted his career to treating adults with diabetes and metabolic disorders as well as studying the biological basis of certain diabetes-related complications. Dr. Davis's major research interests include studying neural control of metabolism, exercise physiology and metabolic regulation of in-vivo vascular biology in obese, diabetic and healthy individuals. Using state-of-the-art integrated in-vivo clinical physiologic approaches (glucose clamps, pancreatic clamps, isotopic tracer methodologies), Dr. Davis and his group have been able to identify the deficient autonomic nervous system, neuroendocrine and metabolic homeostatic mechanisms responsible for increased hypoglycemia during rest and exercise in intensively treated Type 1 and Type 2 DM individuals. More recently, Dr. Davis's studies have demonstrated novel treatment strategies to restore the deficient autonomic nervous system responses during hypoglycemia and exercise. Additionally, glucose and pancreatic clamp studies have been extensively used to investigate the independent effects of insulin action and glucose on endothelial function, inflammation, and atherothrombotic balance. Dr. Davis has substantial expertise and experience in the design, conduct, and interpretation of in-vivo human clinical physiology studies using glucose clamp and isotope dilution methodologies.

Dr. Davis has published more than 215 original articles, reviews and textbook chapters in premier scientific journals. For his work, Dr. Davis has been recognized with many distinguished awards throughout his career, including the Novartis Award for Diabetes Research in 2000, considered to be one of the highest honors in that field of research. Dr. Davis is listed in Who's Who in America (2006-2014), Who's Who in the World (2010, 2014) and Who's Who in Healthcare (2011-2014).

Research/Clinical Keywords

Diabetes, Hypoglycemia, Exercise, Inflammation

Highlighted Publications

- Mikeladze M, Hedrington MS, Joy N, Tate DB, Younk, LM, Davis I, Davis SN. Acute effects of oral Dehydroepiandrosterone on counterregulatory responses during

repeated hypoglycemia in healthy humans. *Diabetes* 2016 Aug; db160406. <http://dx.doi.org/10.2337/db16-0406>

- Joy N, Perkins J, Mikeladze M, Younk L, Tate D, Davis S. Comparative effects of acute Hypoglycemia and Hyperglycemia on Pro-Atherothrombotic biomarkers and Endothelial Function in Non-Diabetic Humans. *Journal of Diabetes and its Complications*. 2016, (30):1275-1281
- Hedrington MS, Mikeladze M, Tate DB, Younk LM, Davis, IC, Davis SN. Effect of Antecedent GABA A Receptor Activation on Counterregulatory Responses to Exercise in Individuals with Type 1 Diabetes. *Diabetes*. 2016; Sep; 65(9): 2754-2759
- Hedrington MS, Tate DB, Younk LM, Davis SN. Effect of antecedent GABA A receptor activation on counterregulatory responses to exercise in healthy man. *Diabetes*. 2015 Sep;64(9):3253-61. PMID: PMC4542446
- Joy NG, Tate DB, Younk LM, Davis SN. Effects of Acute and Antecedent Hypoglycemia on Endothelial Function and Markers of Atherothrombotic Balance in Healthy Man. *Diabetes*. 2015 64(7):2571-2580. PMID: PMC4477350

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