PROCEEDINGS OF THE
2010 HEART-BRAIN SUMMIT
SEPTEMBER 23–24, 2010
Presented by the Earl and Doris Bakken Heart-Brain Institute at Cleveland Clinic
and the Society for Heart-Brain Medicine
Supplement 1 to Volume 78, August 2011 • www.ccjm.org/content/78/Suppl_1

Summit Directors
MARC S. PENN, MD, PhD
Director, Earl and Doris Bakken Heart-Brain Institute,
Cleveland Clinic, Cleveland, OH

JEFFREY L. CUMMINGS, MD
Director, Lou Ruvo Center for Brain Health,
Cleveland Clinic, Las Vegas, NV

KATHERINE HOERCHER, RN
Director, Earl and Doris Bakken Heart-Brain Institute,
Cleveland Clinic, Cleveland, OH

Contents*

Depression and Heart Disease
The Bypassing the Blues trial: Collaborative care for post-CABG depression and implications for future research ................................................................. S4
Bruce L. Rollman, MD, MPH, and Bea Herbeck Belnap, Dr Biol Hum

Type D personality and vulnerability to adverse outcomes in heart disease ................................................................. S13
Johan Denollet, PhD, and Viviane M. Conraads, MD, PhD

Biofeedback in the treatment of heart disease .................................................................................. S20
Christine S. Moravec, PhD, and Michael G. McKee, PhD

Device-Based Therapies
Electrical vagus nerve stimulation for the treatment of chronic heart failure ................................................................. S24
Hani N. Sabbah, PhD, FACC, FCCP, FAHA

Treatment of chronic inflammatory diseases with implantable medical devices ................................................................. S30
Ralph J. Zitnik, MD

Pioneer Lecture
New frontiers in cardiovascular behavioral medicine: Comparative effectiveness of exercise and medication in treating depression ................................................................. S35
James A. Blumenthal, PhD

* These proceedings represent several presentations made at the 2010 Heart-Brain Summit, but some were unable to be captured for publication here.
Depression and Inflammatory Signaling in Alzheimer Disease

Depression: A shared risk factor for cardiovascular and Alzheimer disease

Dylan Wint, MD

Inflammatory signaling in Alzheimer disease and depression

Robert Barber, PhD

Vascular signaling abnormalities in Alzheimer disease

Paula Grammas, PhD; Alma Sanchez, PhD; Debjani Tripathy, PhD; Ester Luo, PhD; and Joseph Martinez

Stress in Medicine

Stress in medicine: Strategies for caregivers, patients, clinicians

Michael G. McKee, PhD; A. Marc Gillinov, MD; M. Bridget Duffy, MD; Richard N. Gevirtz, PhD; and Carmen V. Russoniello, PhD

The burdens of caregiver stress—Michael G. McKee, PhD

Promoting better outcomes with stress and anxiety reduction—A. Marc Gillinov, MD

Addressing the impact of clinician stress—M. Bridget Duffy, MD

Biofeedback in the treatment of stress—Richard N. Gevirtz, PhD

Biofeedback for extreme stress: Wounded warriors—Carmen V. Russoniello, PhD

Panel Discussion

Annual Review of Key Publications in Heart-Brain Medicine

Key 2010 publications in behavioral medicine

Laura D. Kubzansky, PhD, MPH

Novel Findings in Heart-Brain Medicine

Imaging for autonomic dysfunction

Stephen E. Jones, MD, PhD

Neurohormonal control of heart failure

Gary S. Francis, MD

Poster Abstracts

Young Investigator Research Award Winner

Topics and editors for supplements to the Cleveland Clinic Journal of Medicine are determined by the Journal's editor-in-chief and staff. Supplement editors are chosen for their expertise in the topics discussed and are responsible for the scientific quality of supplements, including the review process. The Journal ensures that supplement editors and authors fully disclose any relationships with industry, including the supplement underwriter. For full guidelines on grant-supported supplements to the Journal, go to www.ccjm.org/site/misc/Supplement_Guidelines.pdf.