TIRONE E. DAVID, M.D.

Doctor Tirone E. David is a Professor of Surgery at the University of Toronto, Chief of Cardiac Surgery at Toronto General Hospital, and the holder of the Melanie Munk Chair at the Peter Munk Cardiac Centre. He was born in Brazil and educated in his native country, in the United States and in Canada. His postgraduate training in surgery was at the State University of New York, Cleveland Clinic, and University of Toronto. He joined the academic staff of the University of Toronto and Toronto General Hospital in 1978, and has become one of the leading cardiac surgeons in the world. Hundreds of heart surgeons from around the globe visit his operating theatre every year and he travels extensively to demonstrate operative techniques he developed and to give lectures.

Doctor David has published over 250 peer-reviewed scientific papers, 45 chapters in medical textbooks as well as five surgical textbooks. He has developed numerous operative procedures to treat patients with heart valve disease, complications of myocardial infarction, and thoracic aneurysms. He has been a member of the editorial board of numerous surgical journals. He was the Secretary of the American Association for Thoracic Surgery from 1998 through 2003 and President in 2004-2005. Doctor David is a member of numerous professional societies. He is an honorary member of the European Cardiothoracic Association, the Brazilian Cardiovascular Society, the Italian Society for Cardiac Surgery, the Southern Thoracic Surgical Association and the German Society of Thoracic and Cardiovascular Surgery. He received the Order of Ontario in 1993 and the Order of Canada in 1996. He was elected University Professor in 2004.

PROGRAM

Monday, November 30, 2009
6:50-8:00 am BREAKFAST, Palmetto Café at Charleston Place
Drs. Dick, Castellano, Fisher, Obasi, Stokes, and Wilson
General Surgery Chief Residents
Drs. Giblin, Hecker, Person, Jacks, Griffin, Thompson, & Joshi
Cardiothoracic Surgery Residents

8:15-9:00 am Meet with Drs. David Cole, John Ikonomidis & Fred Crawford for tour
First Floor, Strom Thurmond Building

9:15 am-12:00 RESEARCH PRESENTATIONS
Storm Eye Institute Auditorium, Room HA809
9:15am Differential Effect of Mechanical and Biologic Stimuli on Matrix Metalloproteinase Promoter Activity in the Thoracic Aorta
Jean Marie Ruddy, MD (PG-5)

9:35am Extracellular Biomarkers in Hypertensive Heart Disease with Analysis of Gender and Ethnicity Profiles
Adonteng A. Kwakye (MS-III)

9:55am Differential Proteolytic Profile in Pediatric Cardiomyopathies
Nidhi Kumar (MS-III)

10:15am Differential Matrix Metalloproteinase and Endogenous Inhibitor Expression in Ascending Thoracic Aortic Aneurysms Associated with Bicuspid Aortic Valve Subtypes
Stewart M. Benton, Jr. (MS-III)

10:35 - 10:55 am COFFEE BREAK

11:15am Mesenchymal Cell Transplantation and Myocardial Remodeling Following Myocardial Infarction
Jennifer A. Dixon, MD (PG-4)

11:35am Gene Expression Analysis in Ascending Aortic Aneurysms
Timothy M. Brand (MS-II)

11:55 am Compartment Specific Modulation of Plasmin Activity Following Antifibrinolytic Administration
Daryl L. Reust, MD (CT Anesthesia Fellow)

12:15 pm LUNCH WITH SURGERY RESIDENTS
Solomon Conference Room 125 Gazes

Tuesday, December 1, 2009
7:00 - 8:00 am

HORACE G. SMITHY LECTURE
2 West Amphitheater
“Creativity in Surgery”

TIRONE E. DAVID, M.D.
University Professor
University of Toronto
Melanie Munk Chair of Cardiovascular Surgery
Chief, Cardiac Surgery
Toronto General Hospital
HORACE G. SMITHY VISITING PROFESSORS

J. Lynwood Herrington, Jr., M.D. – “The Vagotomy Story” 1985
Norman M. Rich, M.D. – “Vascular Trauma” 1986
Kirby I. Bland, M.D. – “Contemporary Approaches to Colorectal Cancer & Management of Hepatic Metastases” 1987
Heber H. Newsomes, Jr., M.D. – “Adrenal Tumors” 1988
William A. Gay, Jr., M.D. – “Cardiac Transplantation: Expectations and Realities” 1989
John A. Waldhausen, M.D. – “Circulatory Support and the Artificial Heart” 1993
Robert W. Anderson, M.D. – “Managed Care and Surgery” 1995
Mark B. Orringer, M.D. – “Transhiatal Esophagectomy Without Thoracotomy - Avoiding and Managing Complications” 1996
Marvin Pomerantz, M.D. – “Surgical Approaches in the Treatment of Mycobacterial Disease” 1998
William A. Baumgartner, M.D. – “Retooling Thoracic Surgery Education” 2000
James L. Cox, M.D. – “A New Approach to Artificial Heart Valves” 2001
Timothy J. Gardner, M.D. – “Cardiac Surgery and the Brain - the Real Facts” 2003
D. Craig Miller, M.D. – “What We Know and What We Don’t Know About Valve-Sparing Aortic Root Replacement” 2004
David A. Fullerton, M.D. – “Control of Post-Operative Pulmonary Hypertension” 2005
Irving L. Kron, M.D. – “Surgery for Heart Failure” 2006

THE LEGACY OF A PIONEERING SURGEON

On January 30, 1948, a young Assistant Professor of Surgery at the Medical University of South Carolina made medical history by successfully removing scar tissue from a heart valve of a young, incapacitated girl who had been given but a brief time to live. The technique employed by the 34-year old Horace G. Smithy was based upon two years of exhaustive research experimentation. Dr. Smithy’s research included the design of a new instrument, known as a valvulotome, to cut scar tissue blocking heart valves of rheumatic fever victims. He subsequently operated upon six additional patients, four of whom survived. Tragically, Dr. Smithy himself had valvular heart disease as a result of rheumatic fever during childhood, and his condition began rapidly deteriorating in 1948. He requested a noted surgeon at The Johns Hopkins Hospital to carry out the procedure on him, but before this could be arranged, Dr. Smithy died on October 28, 1948. Dr. Smithy’s premature death deprived Charleston and the Medical University of South Carolina the opportunity to become an early center for cardiac surgery. However, from his pioneering efforts, enormous progress has been made. Today, reliable prosthetic heart valves are widely available and surgery for valvular heart disease is standardized and carries a very low risk in most individuals.