

The International Symposium for Cardiac Surgery

PROGRAM INFORMATION

Presented by



with distinguished presenters from:



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The VinaCapital Foundation

A warm welcome to participating surgeons around the world!

This series began as a capacity building effort for the fine cardiac surgeons in Vietnam. We are very pleased that it has grown into a world wide effort with participants in Vietnam, China, India, Bangladesh, several countries in Africa, Israel, Ireland and the US.

This program is a true collaboration between organizations. With the funding and staffing from VinaCapital Foundation, the efforts of Dr. Cox and World Heart Foundation (WHF) and the great capabilities of the World Bank Global Development Learning network, a great group of professionals has worked together to create and implement this program.

We hope that our goal of providing an excellent training opportunity for cardiac surgeons in developing countries will be realized and that this series will continue for many sessions in the coming year.

I have tremendous respect for the work that you all do daily to give children and adults with heart disease hope and a healthy future. It has been my honor to work on this program and to enable you to gain access to information and exposure to some of the greatest surgeons, researchers and innovators in cardiac surgery.

I look forward to hearing your comments and suggestions for future sessions.

Warm regards,

Robin

Robin King Austin
Executive Director, The VinaCapital Foundation
Special Projects Director, World Heart Foundation

The International Symposium for Cardiac Surgery

The VinaCapital Foundation has provided funding for a series of training conferences to improve capacity for cardiac care and cardiac surgery in Vietnam and regional countries. This program brochure contains an overview of the symposium series, the sponsoring organizations and partners, the biographies of the doctors involved and an overview of the technical topics for the first three sessions.

Working with the World Bank Global Development Learning Center in Hanoi, a state-of-the-art videoconferencing center which is a member of the World Bank Global Development Learning Network, and the World Heart Foundation, this program links surgeons and doctors involved in cardiac care in developing countries with the world's best in cardio-thoracic surgery, cardiology and pediatric cardiac care during three series of symposia.

The International Symposium for Cardiac Surgery will allow doctors from all over Vietnam to congregate in videoconferencing centers in Ho Chi Minh City and Hanoi for a series of lectures by exemplary leaders in the field of Cardio-Thoracic Surgery. The sessions will also be made available to doctors in China, India, Cambodia, Laos, and Bangladesh through their World Bank Global Development Learning Center sites. The series will be interactive, enabling participants to ask questions after each presentation. Simultaneous translation will be available and the lectures and Q&A sessions will be recorded. Doctors in other countries can also join in by web cast and the presentations and discussions will be available after the series for free via a download on the World Heart Foundation website. Current registration includes surgeons in Asia, Africa, Europe, the Middle East, and India.

Logistically, the Hanoi World Bank Development Center will coordinate, using the World Bank Center in Washington and

connecting to the presenter' locations at a video conferencing center in his or her medical center or university. Participants also have the option of participating via web cast.

The lectures will be compiled into a DVD series and distributed by the World Heart Foundation to surgical programs in developing countries around the world.

Each series will include several sessions with a total of 12-20 topics covered in each series. Series will be tailored specifically for:

- cardio-thoracic surgeons,
- cardiologists and
- pediatric and family care doctors involved in the care of children

Partner and Sponsoring Foundations and Institutions

The Carpentier Heart Institute, Ho Chi Minh City

Founded in 1992, by world renowned heart surgeon and philanthropist Dr. Alain Carpentier, the Heart Institute in Ho Chi Minh City is the leading heart surgery institution in Vietnam. The center is involved in training surgeons for centers all over Vietnam and in the neighboring countries of Cambodia and Laos. The center performs over 1800 Heart surgeries per year.

Without the guidance of Former Director Nguyen Ngoc Chieu, MD, Director Phan Kim Phuong, MD and Nguyen Van Phan, MD, Chief of Cardiac Surgery, and Professor Pham Nguyen Vinh, MD this series would not be possible. Dr. Phuong advised The VinaCapital Foundation (VCF) on the topics that her team felt were most important to the development of cardiac surgeons in Vietnam. Dr. Phan has been an advisor to VCF on all of its healthcare programs and his advice on the structure, agenda, and operation of the actual sessions has been invaluable in the preparation of the series.

The World Bank Global Development Learning Network (GDLN)



The Global Development Learning Network is a partnership of over 120 recognized global institutions, collaborating in the design of customized learning solutions for people working in development.


GDLN affiliates put on 1000+ learning events per year. Activities range from designing and organizing formal training courses to multi-country dialogues and virtual conferences, using effective blends of face-to-face and distance learning approaches.

The clients of GDLN include small non-governmental organizations, private sector entities, government agencies and multilateral development organizations.

This series is being hosted by the GDLN center in Hanoi, Vietnam with connections to


- the presenter locations,
- interactive broadcasts to the GDLN centers in Ho Chi Minh City, Vietnam; Dhaka, Bangladesh; Phnom Penh, Cambodia; Shanghai & Beijing, People's Republic of China, Jakarta, Indonesia and New Delhi, India *and*
- a web cast which will be available to individuals and groups worldwide.

The VinaCapital Group

 **VinaCapital** VinaCapital Group (VCG) is a leading asset management, investment banking and real estate consulting firm with unrivalled experience in the Vietnamese market.

The VinaCapital Foundation takes that investment a step further. VCG is now investing in the future of Vietnam.....its children and young leaders. VCG gives back some of the company's investment earnings to help the poor in Vietnam. VCG hopes we are setting an example in this fast-growing economy that corporate social responsibility is important, and a good investment for the future of many poor families as well as for the business.

The VinaCapital Foundation

 **The VinaCapital Foundation** The mission of The VinaCapital Foundation is to: Help to alleviate poverty and improve the status of the poor in Vietnam; to improve medical institutions (facilities and staff capacity) and access to quality medical care for poor patients in Vietnam; and to support programs that will build business knowledge and business leadership across the country to increase opportunities for investment and sustain economic development in Vietnam.

VinaCapital Foundation began its work helping one poor child at a time, and now with this telemedicine series could affect the lives of over 500,000 cardiac patients in 2009.

The funding and organization of the International Symposium for Cardiac Care with the World Heart Foundation was originally planned as a capacity building program for Vietnam's heart surgeons. However, when the capabilities of the World Bank Development Learning Network and the two facilities here in Vietnam were discovered it was decided to share the series with many other countries as well.

The VCF team hopes to use this format and continue to work with these partners for a long partnership in building health care capacity in Vietnam and other developing nations.

World Heart Foundation



The mission of the World Heart Foundation is to decrease the global inequity in the delivery of high-quality health care by improving the access that the underserved have to cardiac surgery. Its initial efforts focus on, but are not limited to, providing heart surgery to the children and young adults suffering from congenital heart anomalies in developing countries.

Established in 1999, WHF is a non-profit organization headquartered in Washington, DC. Its leadership consists of an international assemblage of eminent cardiothoracic surgeons. It maintains close affiliations with the medical professional societies that represent the cardiothoracic surgery specialty and with humanitarian organizations that aid in the delivery of heart surgery to those in need.

The Foundation is accomplishing its mission through the following activities: The coordination of the efforts of a network of affiliated humanitarian organizations, volunteer professionals, health care and industry partners, and institutions at the point of care to deliver resources and volunteer teams of medical professionals when and

where they are needed; the education and training of medical trainees and practitioners throughout the world; the fostering of a spirit of concern, community, and activism in medical trainees and practitioners that will lead to lifelong service, the development of a community of practice in which medical professionals who volunteer can develop, learn, and discuss the best practices involved in delivering care in different cultural and health care environments.

Emory Health Care, Atlanta, Georgia, USA



The Division of Cardiothoracic Surgery at Emory is one of the largest and most successful cardiothoracic and cardiac surgery services in the country. Staffed by a team made up of surgeons who are also faculty members of the Department of Surgery of the Emory University School of Medicine, the division's five primary services are adult cardiac surgery, adult cardiac transplantation, congenital cardiac surgery, general thoracic surgery and adult lung transplantation. Adult cardiac surgery, adult cardiac transplantation and congenital cardiac surgery are components of the Emory Heart & Vascular Center, which encompasses all Emory-affiliated cardiology services and research.

The nationally known Cardiothoracic Research Laboratory of the Carlyle Fraser Heart Center conducts basic and translational research in cardiac surgery; cardiovascular diseases and treatment; trains basic science and clinical investigators to be leaders in cardiovascular research and therapeutics; and develops innovative strategies and devices for our cardiovascular surgeon team to treat cardiovascular diseases. Faculty researchers have made major contributions to the current practice of cardiac surgery by devising methods of protecting the heart during open heart surgery and refining and testing a method for prevention of calcification of bioprosthetic heart valves. Current laboratory efforts are focused on resurrection of dying heart cells at the time of a heart attack and the use of stem cells to assist in the recovery of the heart after a myocardial infarction.

Clinical research in cardiac surgery is undertaken by the Clinical Research Unit, composed of a cardiovascular surgeon team, research nurses and biostatisticians devoted to developing new techniques and technologies in cardiothoracic surgery through various studies and clinical trials. An example is the SMART study conducted by Dr. John Puskas and his research team that established the efficacy of off-pump coronary bypass in providing complete revascularization with patency rates equivalent to conventional coronary artery bypass graft surgery with decreased hospital morbidity.

Children's National Medical Center, Washington DC, USA



Children's National Medical Center is the only exclusive provider of pediatric care in the metropolitan Washington, DC area, and is the only freestanding children's hospital between Philadelphia, Pittsburgh, Norfolk, and Atlanta. Serving the nation's children for more than 135 years, Children's National is a proven leader in the development and application of innovative new treatments for childhood illness and injury. Children's National Medical Center includes:

- **Children's Hospital**, which features 283 beds, 44 of which are level IV Newborn Intensive Care Unit (NICU) bassinets; a Level I pediatric trauma center which serves three states (Washington, DC, Md. and Va.); and a **critical care transport program** via ambulance, helicopter and fixed-wing airplane;
- Seven **Regional Outpatient Centers** that provide specialty care around the Beltway;
- A primary care program that includes health centers with mobile medical units within the District of Columbia and owned practices throughout the metropolitan area;
- **Children's National Health Network** with 400 affiliated pediatricians;
- **Children's Research Institute** one of the largest basic and clinical research programs for pediatric health; *and*

- Other **subsidiaries** that focus on school health services, community partnerships and safety campaigns.

Children's internationally recognized team of pediatric healthcare professionals care for more than 360,000 patients each year who come from throughout the region, nation and world. Serving as an advocate for all children, Children's is the largest non-governmental provider of pediatric care in the District of Columbia, providing more than \$50 million in uncompensated care. In addition, Children's serves as the regional referral center for pediatric emergency, trauma, cancer, cardiac, and critical care as well as neonatology, orthopaedic surgery, neurology, and neurosurgery.

Children's National is proudly ranked among the best pediatric hospitals in America by *US News & World Report*.

Inova Heart and Vascular Institute, Fairfax, Virginia, USA



The Inova Heart and Vascular Institute, located on the campus of Inova Fairfax Hospital and Inova Fairfax Hospital for Children, is a 156-bed facility dedicated to the causes and treatments of cardiovascular disease. With an ambulance bay for patient transfers, operating rooms, catheterization and electrophysiology labs, outpatient clinics and diagnostic facilities, the Inova Heart and Vascular Institute provides patients with a more focused approach to cardiac care under one roof with the added benefits of the nationally-recognized Inova Fairfax Hospital and Inova Fairfax Hospital for Children just steps away.

The Inova Heart and Vascular Institute provides:

- Cardiac services at all Inova hospitals
- Advanced technologies for comprehensive cardiac care for adults and children
- Prevention, education, evaluation, diagnosis, treatment, rehabilitation and home and long-term care services
- Increased focus on research that will advance treatment of cardiovascular diseases

Agendas and Biographies

Session I, Thursday November 13, 2008

Atrial Fibrillation

with

James L. Cox, M.D.

*Emeritus Everts A. Graham Professor of Surgery,
Emeritus Chief, Division of Cardiothoracic Surgery*

Washington University School of Medicine, St. Louis, Missouri, USA

and

Niv Ad, M.D.

Director, Cardiac Arrhythmia Center

Director of Cardiovascular Research

Inova Heart and Vascular Institute, Fairfax, Virginia, USA

Symposium Agenda- first session- All times are Vietnam Time (GMT+7)

- | | |
|-------------------|---|
| 7:00 – 7:30 pm: | Registration, fellowship and refreshments |
| 7:30 - 8:00 pm: | Opening Comments and Introductions |
| 8:00 – 8:30 pm: | “The Selection of Patients for Atrial Fibrillation Surgery”
<i>Niv Ad, MD</i> |
| 8:30 – 9:00 pm: | Q & A Session |
| 9:00 – 9:30 pm: | “Optimal Lesion Patterns for Atrial Fibrillation”
<i>James L. Cox, MD</i> |
| 9:30 – 10:00 pm: | Q & A Session |
| 10:00 – 10:30 pm: | “Optimal Energy Sources for Atrial Fibrillation”
<i>James L. Cox, MD</i> |
| 10:30 – 11:00 pm: | Q & A Session |
| 11:00 – 11:30 pm: | “Contemporary Surgical Techniques for Concomitant AF and Stand-Alone AF”
<i>Niv Ad, MD</i> |
| 11:30 – 12:00 am: | Q & A Session |

James Cox MD

*Emeritus Evarts A. Graham Professor of Surgery,
Emeritus Chief, Division of Cardiothoracic Surgery
Washington University School of Medicine, St. Louis, Missouri,
USA*

Dr. Cox is most recognized for his seminal work in atrial fibrillation, a condition that affects up to 3 million people in the United States and is responsible for thousands of strokes every year. This disorder is characterized by spiraling electric signals that cause the heart to beat out of control. He has spent his career unraveling the mechanism behind this disorder and devising surgical techniques to cure it. In 1987, Dr. Cox performed his first Maze procedure. The Cox-Maze procedure has proved highly successful in long-term follow-up of patients.

Currently, he is chairman and chief executive officer of the World Heart Foundation. In addition, Dr. Cox was a founding member of the board of directors of The Cardiothoracic Surgery Network (CTSNet) and editor-in-chief of 2 of the 3 official journals of the American Association for Thoracic Surgery. Dr. Cox has been a director of the American Board of Thoracic Surgery, a founding board member of the Thoracic Foundation for Research and Education, a member of the NIH Study Section on Surgery and Bioengineering, and chairman of the Residency Review Committee for Thoracic Surgery; in 2001, he was president of the American Association for Thoracic Surgery and in 2009 will receive the Bakken Award from the Society of Thoracic Surgeons.

Niv Ad, MD

*Director, Arrhythmia Surgery Center
Director of Cardiovascular Research
Inova Heart and Vascular Institute, Fairfax, Virginia, USA*

Dr. Ad is an internationally recognized expert in the surgical Maze procedure designed to treat atrial fibrillation. Trained by Dr. James

Cox who created the Maze in 1987, Dr. Ad has performed hundreds of Maze surgeries in the three years since he came to the United States and began practicing at the Inova Heart and Vascular Institute in Fairfax, VA.

Dr. Ad not only uses the most modern technology available but also works closely with the electrophysiology team at the Institute to ensure that each patient is evaluated by a team of experts who collaborate to determine the best treatment options for every individual. For patients who undergo surgery, Dr. Ad offers all types of surgical ablations (full Maze procedure and its modifications) performed using either minimally invasive techniques or through a traditional mid-sternotomy incision.

In addition to his expertise in the operating room, Dr. Ad performs clinical and basic research and has published extensively on atrial fibrillation in the top-ranked peer reviewed journals. Currently and during the past five years, Dr. Ad has served on the faculty of many national and internal conferences for atrial fibrillation.

At Inova, Dr. Ad and his team also offer a unique and extensive follow-up program which includes tracking of the medical progress and quality of life of the patients to ensure the success of the procedure.

*Session II, Thursday, December 11, 2008
7 PM – 12 AM (Vietnam Time (GMT+7))*

Coronary Artery Bypass

with

John D. Puskas, MD

*Professor of Surgery and Associate Chief, Division of Cardiothoracic Surgery,
Emory University School of Medicine*

*Chief of Cardiac Surgery, Emory Crawford Long Hospital
Surgical Director, Emory Carlyle Fraser Center for Atrial Fibrillation
Director, Clinical Research Unit, Division of Cardiothoracic Surgery
Off Pump CABG: Evidence and Technique*

Robert Guyton, MD

*Distinguished Charles Ross Hatcher, Jr., Professor of Surgery
Chief, Division of Cardiothoracic Surgery, Emory University School of
Medicine*

*Chief, Cardiothoracic Surgery Residency Training Program, Emory
Chief of Cardiothoracic Surgery, Emory University Hospital, Atlanta, Georgia
CABG Versus PCI for Multi-Vessel CAD*

and

Thomas A. Vassiliades, Jr., MD

*Associate Professor of Surgery, Division of Cardiothoracic Surgery,
Emory University School of Medicine*

*Emory University Medical Center, Atlanta Georgia
EndoACAB and Hybrid Revascularization*

John D. Puskas, MD

*Professor of Surgery and Associate Chief, Division of Cardiothoracic
Surgery, Emory University School of Medicine.*

*Chief of Cardiac Surgery, Emory Crawford Long Hospital
Surgical Director, Emory Carlyle Fraser Center for Atrial
Fibrillation*

Director, Clinical Research Unit, Division of Cardiothoracic Surgery

Dr. Puskas specializes in adult cardiac surgery and lung transplantation. He began performing coronary bypass operations on

beating hearts without using a heart-lung machine in 1996 and has conducted various high profile studies investigating the procedure's medical benefit, such as the 2000-2004 SMART study that established the efficacy of off-pump coronary bypass in providing complete revascularization with patency rates equivalent to conventional coronary artery bypass graft surgery as well as a decreased hospital morbidity. In 1997, he performed the world's first triple off-pump bypass surgery using minimally invasive coronary artery bypass graft (mini-CABG) instrumentation.

Robert A. Guyton, MD

Charles Ross Hatcher, Jr., Professor of Surgery, Emory University School of Medicine

Director, Cardiothoracic Surgery Residency Training Program, Emory

Chief of Cardiothoracic Surgery, Emory University Hospital

Dr. Guyton has held various high-level offices in numerous surgical societies, including a 2003-2004 term as president of the Society of Thoracic Surgeons; has been directly involved in the refinement and development of various cardiothoracic surgical methods; and has published extensively. He designed and created a pediatric heart patch that grew along with the heart in 1984, negating the need for additional surgery, and he and Dr. Omar Lattouf were the first surgeons in Georgia to apply the Abiomed biventricular assist system to support the failing heart of a patient suffering from post-cardiotomy shock in 1989.

Thomas A. Vassiliades, Jr., MD

Associate Professor of Surgery, Division of Cardiothoracic Surgery, Emory University School of Medicine

In 1999 at a hospital in Moscow, Dr. Vassiliades performed the world's first totally endoscopic CAB with the Zeus Robotic Surgical System. In 2001, he performed the first robotic internal mammary artery harvest in the U.S. with Zeus in Pensacola, FL. Shortly after coming to Emory in 2003, Dr. Vassiliades established one of the only cardiac surgery centers in the world to offer endoscopic atraumatic coronary artery bypass.

*Session III, Thursday January 8, 2009
7 PM – 12 AM (Vietnam Time (GMT+7))*

Surgery for Congenital Heart Disease

with

Richard Jonas, MD

*Co-Director, Children's National Heart Institute
Chief of Cardiac Surgery, Children's National Medical Center, Washington,
DC.*

**Advances in Cardiopulmonary Bypass for Congenital Heart
Disease**

Surgical Management of Single Ventricle

Gerald Martin, MD

Chief of Cardiology, Children's National Heart Institute, Washington, DC
Single Ventricle: What is it and how do we deal with it?

John Berger, MD

*Chief, Cardiac Intensive Care, Children's National Heart Institute,
Washington, DC*

**Pulmonary Hypertension:
Primary Pulmonary Hypertension and
Pulmonary Vascular Disease Secondary to Congenital Heart
Disease**

Richard Jonas, MD

*Co-Director, Children's National Heart Institute
Chief of Cardiac Surgery, Children's National Medical Center,
Washington DC.*

Dr. Jonas is chief of Cardiac Surgery and Co-Director of the Children's National Heart Institute, and performs over 350 cardiac surgeries each year. Dr. Jonas is one of the foremost pediatric cardiac surgeons in the world. The single author of one textbook, Dr. Jonas has written 30 book chapters, published 281 journals and collaborated on four textbooks.

Gerard R. Martin, M.D., F.A.A.P., F.A.C.C.

Executive Director, Center for Heart, Lung and Kidney Disease; Co-Director, Children's National Heart Institute; Professor of Pediatrics, George Washington University, C. Richard Beyda Professor of Cardiology

Dr. Martin has been in practice at Children's National Medical Center since 1986. He earned his bachelor's degree in biology from Syracuse University in New York. He received his doctorate of medicine from SUNY-Upstate Medical Center. Dr. Martin completed both his internship in pediatrics and his residency at Rhode Island Hospital in Providence. After his residency, Dr. Martin was a research fellow in Pediatric Cardiology at the Cardiovascular Research Institute in San Francisco. He has also served as Chief of the Division of Cardiology, and the director of the Echocardiography Program and Cardiology Fellowship Training Program.

Dr. Martin is a professor of Pediatrics at George Washington University School of Medicine in Washington, DC. He is a fellow of the American Academy of Pediatrics and the American College of Cardiology, and a member of the Society for Pediatric Research and the American Heart Association's Council on Cardiovascular Disease in the Young. He served on the American Board of Pediatrics sub-board in pediatric cardiology and is a member of the National Heart, Lung, and Blood Institute's Cardiology Data and Safety Monitoring Board. In addition, Dr. Martin was an associate editor for the Pediatric Cardiology Journal and has more than 60 publications in the field of pediatric cardiology. He is an invited speaker nationally and internationally and is an acknowledged expert in the area of pediatric echocardiography and fetal cardiology. Additionally, Dr. Martin has been a volunteer on medical missions to third world countries. His primary research interests include: new technologies in Echocardiography, Fetal Echocardiography, Cardiac Effects of ECMO and non-invasive Measures of Cardiac Function.

John Berger, MD

Chief, Cardiac Intensive Care, Children's National Heart Institute, Washington, DC

Dr. Berger since 1996 has been chief of the Cardiac Intensive Care unit and an attending physician in the Department of Critical Care Medicine at Children's National Medical Center in Washington, DC. He is also an Assistant Professor for George Washington University Medical School, on the consultant faculty at the National Institutes of Health and Walter Reed Army Medical Center. He has been a fellow of the American Academy of Pediatrics since 1998.



A public charity formed to organize the social initiatives of VinaCapital Group in Vietnam.

Programs areas include:

- **Improving Access and Outcomes for Poor Children with Heart Disease**
- **Increasing Capacity for Cardiac Care and Pediatric Intensive Care**
- **Building Capacity for Leadership**

www.vinacapitalfoundation.org

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