

THE UNIVERSITY OF CHICAGO

Section of Neurosurgery,  
Department of Surgery

2015 KLUVER MEMORIAL SYMPOSIUM

**CEREBRAL ANEURYSMS:  
NOVEL CONCEPTS AND  
MANAGEMENT STRATEGIES**

Wednesday May 27th, 2015

7:45am – 12:15pm



THE UNIVERSITY OF CHICAGO

THE CENTER FOR CARE AND DISCOVERY 7850/7870

5700 S. Maryland Ave., Chicago, IL 60637

**COURSE DIRECTORS:**

David M. Frim, MD, PhD

*The Ralph Cannon Professor of Surgery,  
Neurology, and Pediatrics  
Chief, Section of Neurosurgery  
The University of Chicago Medicine*

Issam A. Awad, MD, MSc, FACS, MA (Hon) *The*

*John Harper Seeley Professor of Surgery,  
Neurology, and the Cancer Center  
Director of Neurovascular Surgery  
The University of Chicago Medicine*

This educational activity is funded by the Heinrich  
Kliver Memorial Lectureship Endowment.

For additional information visit:

[surgery.uchicago.edu/kluversymposium](http://surgery.uchicago.edu/kluversymposium)



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MEDICINE &  
BIOLOGICAL  
SCIENCES

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Director of Neurovascular Surgery  
The University of Chicago Medicine*

## KLUVER MEMORIAL VISITING PROFESSORS

### **Robert Rosenwasser, MD, FACS, FAHA**

*Jewell L. Osterholm Professor and Chairman  
Department of Neurosurgery  
Professor of Radiology  
Thomas Jefferson University  
Philadelphia, PA*

### **David Hasan, MD**

*Associate Professor of Neurosurgery and Radiology  
Director of Endovascular and Cerebrovascular Surgery  
University of Iowa Hospitals and Clinics  
Iowa City, IA*

### **Timothy J. Carroll, PhD**

*Professor, Biomedical Engineering and Diagnostic Radiology  
McCormick School of Engineering and Feinberg School of Medicine  
Northwestern University  
Chicago, IL*

## THE UNIVERSITY OF CHICAGO MEDICINE FACULTY

### **Agnieszka Ardelt, MD, PhD**

*Associate Professor of Neurology and Surgery  
Interim Director, Neurocritical Care  
Director, Neurocritical Care Research Laboratory*

### **James Brorson, MD**

*Associate Professor of Neurology  
Director, Comprehensive Stroke Center*

## FACULTY DISCLOSURE

It is the policy of The University of Chicago to ensure balance, independence, objectivity, and scientific rigor in all its individually sponsored or jointly sponsored educational activities. Individuals who are in a position to control the content of this educational activity are required to disclose all relevant financial relationships with any commercial interest related to the subject matter of the educational activity. Mechanisms to ensure that presentations are free from commercial bias are in place. Faculty will also disclose any off-label and/or investigational use of pharmaceuticals or instruments discussed in their presentation. Full disclosure of this information will be published in the activity materials.

## COURSE DESCRIPTION

Cerebral aneurysms are highly prevalent, affecting 1 of every 5 persons, and as many as 1 in 10 elderly patients. Aneurysmal subarachnoid hemorrhage is one of the deadliest types of hemorrhagic stroke with severe acute sequelae and secondary complications, causing frequent death and serious disability. Yet primary stroke prevention is now possible from this deadly disease, with high sensitivity and specificity noninvasive imaging, allowing detection of increasing numbers of unruptured aneurysms. New scientific concepts are allowing the imaging of unstable aneurysms, potentially predicting those with impending rupture, and selecting them for treatment. This unique symposium sheds light on these innovations, from the laboratory and engineering bench to the bedside and clinic, and how they are transforming the care of cerebral aneurysms in clinical practice.

## TARGET AUDIENCE

This program will be of interest and benefit to neurologists, neurosurgeons, neuroradiologists, critical care physicians, emergency department, rehabilitation, and primary care physicians who are involved in the prevention and treatment of stroke. Researchers in vascular biology, bioengineering, imaging and device development, students and postgraduate trainees at all levels, nurses, allied health specialists, and administrators involved in stroke and neurovascular care will also benefit from this unique educational program.

## LEARNING OBJECTIVES

- *Review the acute transport, diagnosis and neurocritical care protocols in patients with ruptured cerebral aneurysms*
- *Summarize current knowledge about the natural history and management options and decision making for unruptured cerebral aneurysms in the era of modern imaging*
- *Present the science and emerging imaging strategies to identify the unstable cerebral aneurysm wall*
- *Review the biology of the aneurysm wall, and potential medical therapy, including the potential role of aspirin, to prevent aneurysm growth and rupture*
- *Outline current decision making paradigms for optimal choice of surgical versus endovascular therapy for various aneurysms and clinical scenarios*
- *Apply to clinical practice new innovations in endovascular devices*

## ACCREDITATION AND CREDIT DESIGNATION

The University of Chicago Pritzker School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of Chicago Pritzker School of Medicine designates this live activity for a maximum 4.25 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses and other healthcare professionals will receive a Certificate of Participation. For information on the applicability and acceptance of certificates of participation for educational activities certified for *AMA PRA Category 1 Credit*<sup>™</sup> from organizations accredited by the ACCME, please consult your professional licensing board.

# SYMPOSIUM AGENDA

WEDNESDAY, MAY 27TH, 2015

7:15 am - 7:45 am

**COURSE REGISTRATION**

7:45 am - 8:00 am

**WELCOME AND INTRODUCTIONS**

*Kenneth S. Polonsky, MD,  
David M. Frim, MD, PhD, and  
Issam A. Awad, MD, MSc, FACS, MA (Hon)*

8:00 am - 8:30 am

**Acute Care of the Patient  
with Ruptured Aneurysm**

*Agnieszka Ardelt, MD, PhD*

8:30 am - 9:00 am

**Management Decisions  
in Unruptured Cerebral Aneurysms**

*James Brorson, MD*

9:00 am - 9:30 am

**Can We Image the Unstable Cerebral  
Aneurysm?**

*Timothy Carroll, PhD*

9:30 am - 10:10 am

**Bench to Bedside:  
Aspirin as Therapy for Cerebral Aneurysms?**

*David Hasan, MD*

10:10 am - 10:30 am

**Questions and Discussion**

10:30 am - 10:45 am

**COFFEE BREAK AND REFRESHMENTS**

10:45 am - 11:15 am

**Surgical Strategies for Cerebral Aneurysms**

*Issam A. Awad, MD, MSc, FACS, MA (Hon)*

11:15 am - 11:55 am

**Evaluating and Integrating  
Endovascular Advances**

*Robert Rosenwasser, MD, FACS, FAHA*

11:55 am - 12:15 pm

**DISCUSSION AND ADJOURNMENT**

## LOCATION

The University of Chicago  
The Center for Care and Discovery  
7th Floor Board Room, 7850/7870  
5700 S. Maryland Ave., Chicago, IL 60637

*Program agenda and speaker selection are subject to change.*

*The University of Chicago reserves the right to cancel or postpone this symposium due to unforeseen circumstances. In the unlikely event this activity must be cancelled or postponed, the registration fee will be refunded; however, The University of Chicago is not responsible for any related costs, charges, or expenses to participants, including fees assessed by airline/travel/lodging agencies.*

## REGISTRATION

### HOW TO REGISTER

 **EMAIL** Cecilia Ehlenbach at [cehlenbach@surgery.bsd.uchicago.edu](mailto:cehlenbach@surgery.bsd.uchicago.edu)

Check and cash will be collected the day of the symposium. Please make all checks payable to **The University of Chicago (Tax ID# 36-2177139)**

### REGISTRATION FEE

The registration fee includes symposium materials and coffee break refreshments. ***While registration is open until the start of the symposium, we do encourage early registration to enable us to provide the best possible service to participants.***

Physicians	\$40
Nurses and Other Health Care Professionals	\$20
Residents/Fellows/Students	Complimentary

### ACCESSIBILITY

The University of Chicago is committed to providing equal access appropriate to need and circumstance and complies fully with the legal requirements of the Americans with Disabilities Act. If you are in need of special accommodation or have any questions or concerns, please contact Cecilia at [cehlenbach@surgery.bsd.uchicago.edu](mailto:cehlenbach@surgery.bsd.uchicago.edu).



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