

# CATCH-UP 2015

**Heart Failure, Devices and Interventions**

**Friday, April 24 & Saturday, April 25, 2015**

NewYork-Presbyterian/Columbia University Medical Center  
Vivian and Seymour Milstein Family Heart Center  
New York, NY

**6TH ANNUAL  
CARDIAC ASSIST  
DEVICE THERAPY  
COURSE**



*Marking 25 Years of Pioneering Work  
in Ventricular Assist Devices*



COLUMBIA UNIVERSITY  
College of Physicians  
and Surgeons

┌ NewYork-Presbyterian  
└ Columbia University Medical Center

## Introduction

CATCH-UP 2015 is the 6th Annual Cardiac Assist Device Therapy Course hosted by NewYork-Presbyterian/Columbia University Medical Center. This premier two-day course will further educate on the diagnosis and management of patients with heart failure. Lectures will be given by internationally recognized experts who will address the current clinical practice, use of standard and emerging treatments and evolution of the field. Didactic sessions, case presentations, and interactive discussions will engender learning and improvement in the management of patients with the full spectrum of heart failure.

## Target Audience

This activity is designed for cardiologists, interventional cardiologists, cardiothoracic surgeons, internists, intensivists, cardiac nurses, physician assistants, physical therapists, and other medical professionals involved in the evaluation, diagnosis and/or management of patients with heart failure.

## Learning Objectives

- Review recent clinical trials in heart failure and pulmonary hypertension
- Diagnose and treat valvular disease in heart failure
- Diagnose and treat acute cardiogenic shock
- Identify transplant and LVAD candidates in the heart failure population
- Recognize and treat complications of LVAD therapy
- Discuss new LVAD technologies
- Discuss cardiac regeneration in heart failure

## Accreditation

The College of Physicians and Surgeons of Columbia University is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

## AMA Credit Designation Statement

The College of Physicians and Surgeons designates this live activity for a maximum of 13.0 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses and physician assistants are encouraged to check with their accrediting organization to ensure they accept *AMA PRA Category 1 Credits*<sup>™</sup>.

### Breakdown of *AMA PRA Category 1 Credits*<sup>™</sup>

Friday, April 24, 2015: 7.0 *AMA PRA Category 1 Credits*<sup>™</sup>

Saturday, April 25, 2015: 6.0 *AMA PRA Category 1 Credits*<sup>™</sup>

## Support

We expect support for this program through grants from pharmaceutical and medical device companies.

## Program Agenda

**Friday, April 24, 2015**

- 8:30am – 8:50am**      **Registration, Breakfast & Vendor Exhibits**
- 8:50am – 9:00am**      **Welcome & Introduction**  
*Paolo C. Colombo, MD*
- 9:00am – 10:30am**      **ACUTE CARDIOGENIC SHOCK**  
*Panelists: Hiroo Takayama, MD, PhD, Jeffrey W. Moses, MD, A. Reshad Garan, MD, Matthew Bacchetta, MD, MBA, MA, Koji Takeda, MD, PhD*
- 9:00am – 9:15am      Pharmacological Therapies of Cardiogenic Shock  
*A. Reshad Garan, MD*
- 9:15am – 9:30am      Percutaneous Options in Cardiogenic Shock: Old Disease, New Technology  
*Jeffrey W. Moses, MD*
- 9:30am – 9:45am      Challenging Cases  
*Koji Takeda, MD, PhD*
- 9:45am – 10:00am      Surgical Management of Cardiogenic Shock  
*Hiroo Takayama, MD, PhD*
- 10:00am – 10:15am      Case Studies  
*Matthew Bacchetta, MD, MBA, MA*
- 10:15am – 10:30am      Q&A
- 10:30am – 10:45am**      **Break & Vendor Exhibits**
- 10:45am – 1:30pm**      **REFRACTORY HEART FAILURE: WHAT ARE MY OPTIONS?**  
**Heart Transplantation**  
*(Susan W. Restaino, MD – Physician Chair)*  
*Panelists: Donna M. Mancini, MD, Yoshifumi Naka, MD, PhD, P. Christian Schulze, MD, PhD, Mandeep R. Mehra, MD, FACC, FACP, FRCP, Warren Rosenblum, MD*
- 10:45am – 11:00am      Heart Transplantation: What Does the Future Hold?  
*Donna M. Mancini, MD*
- 11:00am – 11:15am      Donor Allocation in the US  
*P. Christian Schulze, MD, PhD*
- 11:15am – 11:30am      Organ Allocation Around the World  
*Mandeep R. Mehra, MD, FACC, FACP, FRCP*
- 11:30am – 11:45am      Q&A
- 11:45am – 12:45pm**      **Lunch & Vendor Exhibits**
- LONG TERM LVAD CARE IS NOT A “ONE MAN SHOW”**  
**THE COLUMBIA MULTIDISCIPLINARY APPROACH**
- 12:45pm – 1:00pm      LVAD Therapy  
*Paolo C. Colombo, MD*

- 1:00pm–1:15pm Surgical Techniques and Innovations  
*Yoshifumi Naka, MD, PhD*
- 1:15pm–1:30pm Post-Op VAD Management in the ICU  
*Alan M. Gaffney, MD*
- 1:30pm–1:45pm Break & Vendor Exhibits**
- 1:45pm–3:10pm LVAD: COMPLICATIONS – FOCUS ON THROMBOSIS**  
*Panelists: Hiroo Takayama, MD, PhD, Yoshifumi Naka, MD, PhD, Joshua Z. Willey, MD, Nir Uriel, MD, MSc, Andrew B. Eisenberger, MD, Mandeep R. Mehra, MD, FACC, FACP, FRCPC*
- 1:45pm–2:10pm Diagnosis and Treatment of Device Thrombosis in LVADs  
*Nir Uriel, MD, MSc*
- 2:10pm–2:25pm Bleeding Disorders During LVAD Support – The Hematologist Perspective  
*Andrew B. Eisenberger, MD*
- 2:25pm–2:40pm Device Exchange for Thrombosis  
*Hiroo Takayama, MD, PhD*
- 2:40pm–2:55pm Coumadin Genotyping, Tailored Approach, Challenging Cases  
*Veli Topkara, MD, MSc*
- 2:55pm–3:10pm Q&A
- 3:10pm–4:10pm THE NEW ERA FOR LVAD: INVESTIGATIONAL LONG-TERM DEVICES**
- 3:10pm–3:25pm Jarvik Heart – Update 2015  
*Robert Jarvik, MD*
- 3:25pm–3:40pm HeartMate III Trial and FILVAS (Thoratec Corporation)  
*John B. O’Connell, MD*
- 3:40pm–3:55pm MVAD and Circulite (HeartWare)  
*Daniel Burkhoff, MD, PhD*
- 3:55pm–4:10pm Break & Vendor Exhibits**
- 4:10pm–6:00pm CARDIAC REGENERATION - CONSTANTLY PUSHING THE ENVELOPE**  
*Panelists: Silviu Itescu, MD, MBBS, FRACP, FACP, FTSE, Gordana Vunjak-Novakovic, PhD, Veli Topkara, MD, MSc, Barry Fine, MD, PhD, Paolo C. Colombo, MD, Yoshifumi Naka, MD, PhD*
- 4:10pm–4:40pm State of the Art Lecture: Update in Stem Cell Therapy  
*Silviu Itescu, MD, MBBS, FRACP, FACP, FTSE*
- 4:40pm–5:45pm Updates from the Lisa and Mark Schwartz Program to Reverse Heart Failure  
*Gordana Vunjak-Novakovic, PhD, Veli Topkara, MD, MSc, Barry Fine, MD, PhD, Paolo C. Colombo, MD, Yoshifumi Naka, MD, PhD,*
- 5:45pm–6:00pm Adjourn & Closing Remarks**
- 6:00pm–7:30pm RECEPTION: 25 YEARS OF VAD THERAPY AT COLUMBIA**  
*Featured Presentation by Mehmet C. Oz, MD, FACS*  
*Interview with Patients*

## Saturday, April 25, 2015

- 8:00am – 8:30am**      **Registration, Breakfast & Vendor Exhibits**
- 8:30am – 10:15am**      **HEART FAILURE**  
*(Rachel Bijou, MD – Physician Chair)*  
*Panelists: Mathew S. Maurer, MD, Farhana Latif, MD, Evelyn M. Horn, MD, Jennifer H. Haythe, MD, Susan W. Restaino, MD, Paul Chai, MD*
- 8:30am – 8:45am      Advances in Heart Failure Therapy: PARADIGM-HF  
*Mathew S. Maurer, MD*
- 8:45am – 9:00am      Hypertrophic Cardiomyopathy  
*Farhana Latif, MD*
- 9:00am – 9:15am      Pulmonary Hypertension  
*Evelyn M. Horn, MD*
- 9:15am – 9:30am      Cardiac Diseases in Pregnancy  
*Jennifer H. Haythe, MD*
- 9:30am – 9:45am      Q&A
- 9:45am – 10:00am      Preventing Heart Failure Readmissions in the Era of Health Care Reform  
*Susan W. Restaino, MD*
- 10:00am – 10:15am      Adult Congenital Heart Disease: Role of LVAD Therapy  
*Paul Chai, MD*
- 10:15am – 10:30am**      **Break & Vendor Exhibits**
- 10:30am – 11:45am**      **TREATMENT OF ADVANCED HEART FAILURE:  
VALVULAR DISEASE-FOCUS ON MR & AS**  
*Panelists: Allan Schwartz, MD, Martin B. Leon, MD, Michael Argenziano, MD, Yoshifumi Naka, MD, PhD, Melana Yuzefpolskaya, MD, Simon Maltais, MD, PhD*
- 10:30am – 10:45am      Medical Therapy: What Works?  
*Melana Yuzefpolskaya, MD*
- 10:45am – 11:00am      Surgical Options: Indications, Techniques, Results  
*Michael Argenziano, MD*
- 11:00am – 11:15am      Percutaneous Therapy of Valvular Disease: Patient Selection, Methods, Outcomes, Current Status in the US  
*Martin B. Leon, MD*
- 11:15am – 11:30am      Cases Studies
- 11:30am – 11:45am      Q&A

<b>11:45am-12:45pm</b>	<b>Lunch &amp; Vendor Exhibits</b>
<b>12:45pm-1:10pm</b>	<b>KEY NOTE LECTURE: STATE OF THE FIELD IN ADVANCED HEART FAILURE: WHERE ARE WE HEADED?</b> <i>Mandeep R. Mehra, MD, FACC, FACP, FRCP</i>
<b>1:10pm -2:00pm</b>	<b>TREATMENT OF ADVANCED HEART FAILURE: CORONARY ARTERY DISEASE</b> <i>Panelists: Allan Schwartz, MD, Martin B. Leon, MD, Michael Argenziano, MD, Yoshifumi Naka, MD, PhD, Sun Hi Lee, MD, Simon Maltais, MD, PhD</i>
1:10pm-1:25pm	Percutaneous Management of Chronic Total Occlusion <i>Jeffrey W. Moses, MD</i>
1:25pm-1:40pm	CABG versus LVAD in Advanced Ischemic Cardiomyopathy <i>Simon Maltais, MD, PhD</i>
1:40pm-1:50pm	Cases Studies
1:50pm-2:00pm	Q&A
<b>2:00pm-2:15pm</b>	<b>Break &amp; Vendor Exhibits</b>
<b>2:15pm-3:10pm</b>	<b>TREATMENT OF ADVANCED HEART FAILURE: LVAD THERAPY – WHO AND WHEN TO REFER?</b> <i>Panelists: Melana Yuzefpolskaya, MD, Paolo C. Colombo, MD, A. Reshad Garan, MD, Craig Blinderman, MD, Shunichi Nakagawa, MD</i>
2:15pm-2:25pm	Patient Selection: Do We Need a Risk Score? <i>Paolo C. Colombo, MD</i>
2:25pm-2:35pm	Predicting Post-LVAD RV Failure <i>Maryjane Farr, MD, MSc, FACC</i>
2:35pm-2:45pm	Should We Treat VT in LVAD Patients? Who Needs an ICD? <i>A. Reshad Garan, MD</i>
2:45pm-2:55pm	Case Presentation: Palliative Care/End of Life <i>Craig Blinderman, MD, Shunichi Nakagawa, MD</i>
2:55pm-3:10pm	Q&A
<b>3:10pm-4:00pm</b>	<b>LVAD MANAGEMENT IN THE COMMUNITY &amp; NP SUMMIT</b>
3:10pm-3:25pm	Clinical and Administrative View in Shared Care <i>James J. Lyons, MD, FACC</i>
3:25pm-4:00pm	Troubleshooting/Life Experience <i>VAD NPs</i>
<b>4:00pm-4:15pm</b>	<b>Adjourn &amp; Closing Remarks</b>

## Course Directors

### **Paolo C. Colombo, MD**

Herbert Irving Associate Professor of Medicine  
Columbia University College of Physicians and Surgeons  
Medical Director, Cardiac Assist Device Program  
NewYork-Presbyterian/Columbia University Medical Center

### **Donna M. Mancini, MD**

Professor of Medicine  
Sudhir Choudhrie Professor of Cardiology  
Columbia University College of Physicians and Surgeons  
Medical Director, Center for Advanced Cardiac Care  
NewYork-Presbyterian/Columbia University Medical Center

### **Yoshifumi Naka, MD, PhD**

Professor of Surgery  
Division of Cardiothoracic and Vascular Surgery  
Columbia University College of Physicians and Surgeons  
Director, Cardiac Transplantation Program and Mechanical  
Circulatory Support Programs  
NewYork-Presbyterian/Columbia University Medical Center

## Guest Faculty

### **Daniel Burkhoff, MD, PhD**

VP, Medical Science, HeartWare International  
Adjunct Associate Professor of Medicine, Columbia University

### **Silviu Itescu, MBBS, FRACP, FACP, FTSE**

Chief Executive Officer and Managing Director  
Mesoblast Ltd.

### **Robert Jarvik, MD**

President, Jarvik Heart, Inc.  
New York, NY

### **James J. Lyons, MD, FACC**

The Heart Center  
Vassar Brothers Medical Center  
Poughkeepsie, NY

### **Simon Maltais, MD, PhD**

Vanderbilt Heart and Vascular Institute

### **Mandeep R. Mehra, MD, FACC, FACP, FRCP (London)**

Professor of Medicine, Harvard Medical School  
Medical Director, BWH Heart and Vascular Center  
Brigham and Women's Hospital, Boston, MA  
Editor in Chief, *The Journal of Heart and Lung Transplantation*

### **John B. O'Connell, MD**

Thoratec Corporation  
Pleasanton, CA

### **Nir Uriel, MD, MSc**

Associate Professor of Medicine  
Director, Heart Failure and Cardiac Transplantation  
University of Chicago, Chicago, IL





## **NewYork-Presbyterian/ Columbia University Medical Center Faculty**

### **Michael Argenziano, MD**

Associate Professor of Surgery  
Columbia University College of Physicians and Surgeons  
Chief, Adult Cardiac Surgery Section  
Director, Minimally Invasive and Robotic Cardiac Surgery  
Director, Surgical Arrhythmia Program  
Director, Thoracic Surgery Residency Program  
NewYork-Presbyterian/Columbia University Medical Center

### **Matthew Bacchetta, MD, MBA, MA**

Assistant Professor of Surgery  
Division of Thoracic Surgery  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

### **Rachel Bijou, MD**

Associate Professor of Medicine  
Columbia University Medical Center  
Assisting Attending  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

### **Craig Blinderman, MD**

Assistant Professor of Palliative Care  
in Medicine and Anesthesiology  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

### **Paul Chai, MD**

Assistant Professor of Surgery  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

### **Andrew B. Eisenberger, MD**

Assistant Professor of Medicine  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

### **Maryjane Farr, MD, MSc, FACC**

Associate Professor of Medicine at CUMC  
Center for Advanced Cardiac Care  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

### **Barry Fine, MD, PhD**

Fellow in Cardiovascular Medicine  
Post-Doctoral Fellow in Biomedical Engineering  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

### **Alan M. Gaffney, MD**

Assistant Professor of Anesthesiology  
NewYork-Presbyterian/Columbia University Medical Center

### **A. Reshad Garan, MD**

Assistant Professor  
Department of Medicine, Division of Cardiology  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

### **Jennifer H. Haythe, MD**

Assistant Professor of Medicine  
Center for Advanced Cardiac Care  
Columbia University College of Physicians and Surgeons  
Medical Director of Adult Pulmonary Hypertension  
Pulmonary Hypertension Comprehensive Care Center  
NewYork-Presbyterian/Columbia University Medical Center

### **Evelyn M. Horn, MD**

Professor of Medicine  
Weill Cornell Medical Center  
Director of Advanced Heart Failure, Mechanical Assist &  
Pulmonary Hypertension Programs  
Perkin Heart Failure Center  
NewYork-Presbyterian/Weill Cornell Medical Center  
Adjunct Professor  
NewYork-Presbyterian/Columbia University Medical Center

### **Farhana Latif, MD**

Assistant Professor of Medicine  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

### **Sun Hi Lee, MD**

Assistant Professor of Medicine  
Department of Medicine Cardiology  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

### **Martin B. Leon, MD**

Professor of Medicine  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

### **Mathew S. Maurer, MD**

Arlene and Arnold Goldstein Associate Professor of Cardiology  
Columbia University College of Physicians and Surgeons  
Director, Clinical Cardiovascular Research Laboratory  
for the Elderly  
NewYork-Presbyterian/Columbia University Medical Center

### **Jeffrey W. Moses, MD**

Professor of Medicine  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center  
Director, Advanced Cardiac Interventions  
St. Francis Hospital, Roslyn, NY



**Shunichi Nakagawa, MD**

Assistant Professor of Medicine  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

**Mehmet C. Oz, MD, FACS**

Professor of Cardiac Surgery  
Director, Cardiovascular Institute  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

**Susan W. Restaino, MD**

Associate Professor of Medicine  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

**Warren Rosenblum, MD**

Assistant Professor of Medicine  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

**P. Christian Schulze, MD, PhD**

Florence Irving Associate Professor of Medicine  
Director of Research  
Director, Geier Clinical Research Center  
Center for Advanced Cardiac Care  
Division of Cardiology  
NewYork-Presbyterian/Columbia University Medical Center

**Allan Schwartz, MD**

Seymour Milstein and Harold Ames Hatch  
Professor of Medicine  
Columbia University College of Physicians and Surgeons  
Chief, Division of Cardiology  
Physician-in-Chief, Vivian and Seymour Milstein Family  
Heart Center  
Vice Chair, Department of Medicine  
NewYork-Presbyterian/Columbia University Medical Center

**Hiroo Takayama, MD, PhD**

Assistant Professor of Surgery  
Section of Cardiac Surgery  
Columbia University College of Physicians and Surgeons  
Interim Surgical Director, Aortic Surgery Program  
Co-Director, The HCM Program  
NewYork-Presbyterian/Columbia University Medical Center

**Koji Takeda, MD, PhD**

Assistant Professor of Surgery  
Columbia University College of Physicians and Surgeons  
Assistant Attending Surgeon  
NewYork-Presbyterian/Columbia University Medical Center

**Veli Topkara, MD, MSc**

Assistant Professor of Medicine  
Department of Medicine, Division of Cardiology  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

**Gordana Vunjak-Novakovic, PhD**

Mikata Foundation Professor of Biomedical Engineering  
Professor of Medical Sciences  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

**Joshua Z. Willey, MD, MS**

Assistant Professor of Neurology  
Columbia University Medical Center  
Assistant Attending Neurologist, Stroke Service  
NewYork-Presbyterian Hospital

**Melana Yuzefpolskaya, MD**

Assistant Professor of Medicine  
Associate Medical Director, Cardiac Assist Device Program  
Columbia University College of Physicians and Surgeons  
NewYork-Presbyterian/Columbia University Medical Center

**Contact Information**

Columbia University Medical Center  
Department of Surgery, External Affairs  
400 Kelby Street, 11th Floor, Fort Lee, NJ 07024

**Program Administrator**

**Deborah Schwarz, RPA, CIBE**  
Executive Director and  
Chief Communications Officer  
Columbia University Medical Center  
Department of Surgery, External Affairs

**Program Coordinator**

**Annamarie Tarleton**  
Special Events Coordinator  
Columbia University Medical Center  
Department of Surgery, External Affairs  
Phone: 212.304.7813  
Fax: 212.304.7811  
E-mail: at3004@cumc.columbia.edu

## Meeting Location

NewYork-Presbyterian/Columbia University Medical Center  
Vivian and Seymour Milstein Family Heart Center  
173 Fort Washington Avenue, New York, NY 10032

**Parking:** Parking is available at the NewYork-Presbyterian/Columbia University Medical Center parking garage, located on the southwest corner of Fort Washington Avenue and West 165th Street. Parking fee is NOT included with registration.

Valet parking is available at the entrance of the Milstein Hospital Building located at 177 Fort Washington Avenue.

**Subway:** Take the 1, A, C lines to 168 Street–Washington Heights/Broadway.

**Local Area Hotels:** For a listing of local area hotels, visit [www.ColumbiaSurgeryCME.org](http://www.ColumbiaSurgeryCME.org) and select **CATCH-UP 2015 CME**.

## Registration Fees

**Seating in the Myrna L. Daniels Auditorium:**

Physicians – \$325    Nurses and other clinicians – \$225    Non-medical professionals – \$750

**Seating in the side Conference Rooms (with live broadcast from the Auditorium):**

NYP physicians – \$200    Residents, cardiovascular trainees and students – \$100

NYP nurses and other clinicians – \$100    \*NYP residents, cardiovascular trainees and students – \$0

\*NYP residents, cardiovascular trainees and students are welcome to attend this course at no charge if space is available. Please email your request to [at3004@cumc.columbia.edu](mailto:at3004@cumc.columbia.edu) and you will be contacted a week prior to the course if there is space.

**Registration fee includes:**

- AMA PRA Category 1 Credits
- Two days of program lectures by internationally recognized experts
- Course materials
- Meals (breakfast, lunch and refreshment breaks each day)
- Faculty Reception with Dr. Mehmet Oz on the evening of Friday, April 24, 2015

## Payment Method

**Online:** To make a credit card payment, please register online at [www.ColumbiaSurgeryCME.org](http://www.ColumbiaSurgeryCME.org) and select **CATCH-UP 2015**. For security purposes, credit card payments cannot be accepted in the mail or by phone. American Express, Discover, MasterCard, and Visa are accepted.

**By Mail:** Please complete the attached registration form and mail together with full payment to:

Columbia University Medical Center  
Department of Surgery, External Affairs  
400 Kelby Street, 11th Floor  
Fort Lee, NJ 07024  
ATTN: CATCH-UP 2015 Course

Enclose a check or money order made payable to **Columbia University Department of Surgery**. Checks must be drawn in U.S. dollars on a U.S. bank.

## Registration

Please register me for the continuing medical education program entitled:

### **CATCH-UP 2015: Heart Failure, Devices, and Interventions April 24 and 25, 2015**

- Physicians (Auditorium seating) – \$325
- Nurses and other clinicians (Auditorium seating) – \$225
- Non-medical professionals (Auditorium seating) – \$750
- NYP physicians (Conference Room seating) – \$200
- NYP nurses and other clinicians (Conference Room seating) – \$100
- Residents, cardiovascular trainees and students (Conference Room seating) – \$100
- \*NYP residents, cardiovascular trainees and students – \$0

Space is limited, so early registration is highly encouraged.

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First Name (Please Print or Type)    MI    Last Name    Degree

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Company/Affiliation

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Address

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City    State    Zip

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Daytime Phone    Daytime Fax

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E-mail (required for confirmation purposes)

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Specialty

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Special Needs (specify accommodations needed or dietary needs)

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Attendee Signature    Date

PLEASE NOTE: Registration is limited and will be handled on a first-come, first-served basis. Telephone registrations and/or cancellations are not accepted. Refund of registration fee, less a \$25 administrative charge, will be made if written notice of cancellation is received by April 10, 2015. No refunds can be made thereafter.

Columbia University Medical Center  
Department of Surgery, External Affairs  
400 Kelby Street, 11th Floor  
Fort Lee, New Jersey 07024

# CATCH-UP 2015

## **Heart Failure, Devices and Interventions**

**Friday, April 24 & Saturday, April 25, 2015**

NewYork-Presbyterian/Columbia University Medical Center  
Vivian and Seymour Milstein Family Heart Center  
New York, NY

The College of Physicians and Surgeons  
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[www.ColumbiaSurgeryCME.org](http://www.ColumbiaSurgeryCME.org)