



Short Syllabus

35th Annual International Symposium: Clinical Update in Anesthesiology, Surgery and Perioperative Medicine

Marriott Resort Casa Magna, Cancun, Mexico

January 15 – 20, 2017

The Department of Anesthesiology at the Icahn School of Medicine at Mount Sinai
New York, NY, USA

Complimentary workshops, including: One Lung Ventilation; Ultrasound-Guided Regional Block;
Difficult Airway; Transthoracic Echocardiography.

**Course Directors: George Silvay, M.D., Ph.D., Marc Stone, M.D.,
Menachem Weiner, M.D., Andrew Goldberg, M.D.**

Course Assistant Directors: Christopher Curatolo, M.D., Bryan Hill, M.D.

Course Administrators: Maria Galati, Margorie Fraticelli, Bob Williams

Symposium Website: www.clinicalupdateinanesesthesiology.org

**Pre- registration: Sunday, January 15, 2017 – 16:00-18:00
Maya Ballroom Foyer**

**CME Credits—Certificates will be e-mailed to all faculty and meeting
participants- please ensure that we have your correct e-mail address**

Please complete the daily evaluation forms

**Breakfast is included for registered guests in our group block @ the
Caribbean Fountains area from 6:30am – 10:00 am**

**Cocktail “Welcome” reception on Monday January 16th, 18:00-20:00 at La
Isla Terrace**

**A reception will follow the session: 35th Year ANNIVERSARY. Memories from the First
Annual International Symposium in Antigua 1982 until present: history, interesting
situations, quiz, best meeting on Thursday January 19th at 18:00**



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Educational Objectives

The 35th Annual International Symposium: Clinical Update in Anesthesiology, Surgery and Perioperative Medicine is designed to help busy professionals advance their knowledge and keep current by providing a review of innovations, recent advances and best practices in cardiothoracic, vascular and general anesthesiology, surgery, perioperative medicine, and critical care. In addition, four workshops will be conducted for interested participants.

At the conclusion of the symposium, participants will be able to:

1. Describe and implement new diagnostic modalities, therapeutic agents and management strategies in the fields of cardiothoracic, vascular and general anesthesia, surgery, critical care and perioperative medicine.
2. Recognize and implement best practice anesthetic management of patients with significant comorbidities.
3. Discuss the current and future management of patients with cardiac, thoracic and vascular pathophysiology.
4. Four WORKSHOPS: 1-One lung ventilation; 2-Regional block; 3-Difficult airway; 4- ECHO. Experts will demonstrate the latest techniques.

Target Audience

Anesthesiologists, cardiothoracic, vascular and general surgeons, cardiologists, intensivists, nurse anesthetists, physicians in-training, perfusionists, physician assistants, and nurses.

Verification of attendance will be provided to all professionals

Educational Methods

- Didactic lectures and discussions by recognized leaders in their field.
- Oral presentation of abstracts of relevant basic science research and interesting clinical cases.
- Workshops: Hands-on one lung ventilation; ultrasound - guided regional anesthesia; difficult airway, ECHO.

CME Accreditation Statement

This activity has been planned and implemented in accordance with the Accreditation Requirements and Policies of the Medical Society of the State of New York (MSSNY) through the joint providership of the

Westchester Academy of Medicine and Department of Anesthesiology, Icahn School of Medicine at



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Mount Sinai, New York. The Westchester Academy of Medicine is accredited by the Medical Society of the State of New York (MSSNY) to provide Continuing Medical Education for physicians.

The Westchester Academy of Medicine designates this live activity for a maximum of 18 hours AMA PRA Category I Credits™.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclosure Statement

The Westchester Academy of Medicine and the Medical Society of the State of New York relies upon planners and faculty participants in its CME activities to provide educational information that is objective and free of bias. In this spirit and in accordance with the guidelines of MSSNY and the ACCME, anyone with the potential to control the content of a CME activity are expected to disclose the existence of any relevant financial interest or other relationship the faculty member (spouse or partner) or provider has with the manufacturer of any commercial product discussed in an educational presentation.

The planners and faculty participants do not have any financial arrangements or affiliations with any commercial entities whose products, research or services may be discussed in these materials.

No commercial funding has been accepted for this activity.

Zika safety from the Center for Disease Control: No vaccine exists to prevent Zika. Prevent Zika infection by avoiding mosquito bites **through using Insect Repellent and wearing long-sleeved shirts and long pants.** Mosquitoes that spread Zika virus bite during the day and night. Mosquitoes that spread Zika virus also spread dengue and chikungunya viruses. Zika can be passed through sex from a person who has Zika to his or her sex partners. Condoms can reduce the chance of getting Zika from sex.



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SUNDAY, JANUARY 15th, 2017

16:00 – 18:00 PRE-REGISTRATION (FINAL COLLECTION OF SLIDES).

MONDAY, JANUARY 16th, 2017

07:30 – 08:30 REGISTRATION

08:00 – 08:20 WELCOME AND ANNOUNCEMENTS

George Silvay, New York, NY, USA

08:20 – 11:00 TIMELY TOPICS IN ANESTHESIA, SURGERY AND PERIOPERATIVE MEDICINE

Moderators: Joel Kaplan, San Diego, CA, USA
Joe Szokol, Evanston, IL, USA

08:20 – 08:30 Induced Pluripotent Stem Cells for Precision Medicine
Zeljko Bosnjak, Milwaukee, WI, USA
Keywords: Stem cell biology, patient-derived cells, cardiac electrophysiology

08:30 – 08:40 Socioeconomic Position and Impact on Outcomes
Brigid Flynn, Kansas City, MO, USA
Keywords: socioeconomic position, vascular surgery, cardiac surgery, Hemoglobin A1c
References: 1. Socioeconomic position is not associated with 30-day or 1-year mortality in demographically diverse vascular surgery patients. Mazzeffi M, Lin HM, Flynn BC. J Cardiothorac Vasc Anesth. 2012 Jun;26(3):420-6.
2. Finger B, Brase J, Wirtz K, He J, Flynn BC. Elevated HbA1c levels are associated with lower socioeconomic position (SEP) and postoperative infections in cardiothoracic surgical patients. Annals of Thoracic Surgery

08:40 – 08:50 Inotropic Therapy from Cell to the Patient
Philippe Housmans, Rochester, MN, USA
Keywords: Inotropy, cellular physiology, calcium sensitizers, catecholamines, acute heart failure

08:50 – 09:00 Ultrastructural Changes in Mitochondria of Diabetic Patients



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- Pastor Luna, Mexico City, Mexico
Keywords: Diabetes, mitochondria
- 09:00 – 09:10** **Impact of Ebola Virus on the Surgical Setting**
Janet Martin, London, Ontario, Canada
Keywords: Ebola outbreak - Surgery - Anesthesia - Transmission Risk
- 09:10 – 09:20** **Xenon Anesthesia for Cardiac Surgery**
Thomas Kotulak, Prague, Czech Republic
Keywords: Cardiac anesthesia - Xenon - Cardiac surgery - Organ protection
- 09:20 – 09:30** **Revisiting the EUROSCORE Based on Frailty Indices**
Isabelle Michaux, Yvoir, Belgium
Keywords: cardiac surgery, elderly patients, frailty, perioperative care
- 09:30 – 09:40** **Advanced Strategies for End-Stage Heart Failure**
Jorge Catrip, Mexico City, Mexico
Keywords: Heart failure, surgical treatment, heart assist devices
- 09:40 – 09:50** **3D Functional Modeling of the Mitral Valve**
Daniel Bainbridge, London, Ontario, Canada
Keywords: Mitral valve, 3-D echocardiography
- 09:50 – 10:00** **Exposure to Anesthesia is Associated with Development of Dementia**
Juraj Sprung, Rochester, MN, USA
Keywords: Anesthesia, surgery, Alzheimer's dementia, dementia, minimal cognitive impairment
- 10:00 – 10:10** **Perioperative Use of Statins**
Joe Szokol, Evanston, IL, USA
Keywords: Statins, Pleiotropic effects
- 10:10 – 10:20** **Glycocalyx and its Relevance for Anesthesia Practice**
Vladimir Cerny, Prague, Czech Republic
Keywords: Endothelial glycocalyx - General anesthesia - Regional anesthesia
- 10:20 – 10:30** **Optimizing Perioperative Care in the Face of the Changing Guidelines Concerning “Beta-Blockers”**
Miklos Kertai, Durham, NC, USA
Key words: Perioperative beta-blocker use-perioperative guidelines-postoperative cardiovascular complications
References: 1. Kertai MD, Esper SA, Akushevich I, Voora D, Ginsburg GS, Stafford-Smith M, Grichnik K, Newman MF, Fontes ML, Smith P, Podgoreanu MV, Mathew JP. Preoperative CYP2D6 metabolism-dependent beta-blocker use and mortality after coronary artery bypass surgery. J Thor Cardiovasc Surg 2014; 147:1368-1375



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2. Oprea A, Fontes ML, Onaitis M, Kertai MD. Comparison between the 2007 and 2014 ACC/AHA Guidelines on perioperative evaluation for noncardiac surgery: based on a case report. *J Cardiothor Vasc Anesth* 2015; 29: 1639-1650

10:30 – 10:40

Perioperative Information Systems

Jesse Ehrenfeld, Nashville, TN, USA

Key words: informatics, patient safety, outcomes

References: 1. Electronically Mediated Time-out Initiative to Reduce the Incidence of Wrong Surgery: An Interventional Observational Study. Rothman BS, Shotwell MS, Beebe R, Wanderer JP, Ehrenfeld JM, Patel N, Sandberg WS. *Anesthesiology*. 2016 Jun 6

2. A perioperative consult service results in reduction in cost and length of stay for colorectal surgical patients: evidence from a healthcare redesign project. McEvoy MD, Wanderer JP, King AB, Geiger TM, Tiwari V, Terekhov M, Ehrenfeld JM, Furman WR, Lee LA, Sandberg WS. *Perioper Med (Lond)*. 2016 Feb 5;5:3. doi: 10.1186/s13741-016-0028-1. eCollection 2016.

10:40 – 11:00

SPECIAL LECTURE

Introduction: George Silvay, New York, NY, USA

Cardiac Anesthesia Education Assessment with TEE

Minoru Nomura, Tokyo, Japan

Keywords: Cardiac anesthesia, education, TEE

11:00 – 11:30

DISCUSSION & COFFEE BREAK

11:30 – 13:00

CARDIOLOGY, CARDIAC ANESTHESIOLOGY AND SURGERY

Moderators: Robert Michler, New York, NY, USA

Davy Cheng, London, Ontario, Canada

11:30 – 11:45

Update on Atherosclerosis

Allen Unger, New York, NY, USA

Keywords: Update in lipid management; When statins are not enough; Review of PCSK9 inhibition

11:45 – 12:00

The 10 Year STICH Trial

Robert Michler, New York, NY, USA

Keywords: Ischemic Heart Disease, Coronary Artery Disease, Heart Failure

12:00 - 12:15

Anesthetic Considerations for Open Thoracic Aortic Aneurysm Repair

Yianni Augoustides, Philadelphia, PA, USA

Keywords: aneurysm; clinical registry; locus; imaging; etiologies;



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classifications; complications; guidelines; surgical triggers; neuroprotection; hypothermic circulatory arrest; antegrade cerebral perfusion; hybrid arch repair; left heart bypass; spinal drains; lung isolation; echocardiography; transfusion rescue

References: 1. MacKnight BM, Maldonado Y, Augoustides JG, Cardenas RA, Patel PA, Ghadimi K, Gutsche JT, Ramakrishna H. Advances in Imaging for the Management of Acute Aortic Syndromes: Focus on Transesophageal Echocardiography and Type-A Aortic Dissection for the Perioperative Echocardiographer. *J Cardiothorac Vasc Anesth*. 2016 Jan 13 [Epub ahead of print]

2. Ghadimi K, Gutsche JT, Setegne SL, Jackson KR, Augoustides JG, Ochroch EA, Bavaria JE, Cheung AT. Severity and Duration of Metabolic Acidosis After Deep Hypothermic Circulatory Arrest for Thoracic Aortic Surgery.

J Cardiothorac Vasc Anesth. 2015 Dec;29(6):1432-40.

3. Augoustides JG, Desai ND, Szeto WY, Bavaria JE. Innominate artery cannulation: the Toronto technique for antegrade cerebral perfusion in aortic arch reconstruction--a clinical trial opportunity for the International Aortic Arch Surgery Study Group. *J Thorac Cardiovasc Surg*. 2014 Dec;148(6):2924-6.

4. Gutsche JT, Ghadimi K, Patel PA, Robinson AR 3rd, Lane BJ, Szeto WY, Augoustides JG. New frontiers in aortic therapy: focus on deep hypothermic circulatory arrest. *J Cardiothorac Vasc Anesth*. 2014 Aug;28(4):1159-63

5. Augoustides JG, Stone ME, Drenger B. Novel approaches to spinal cord protection during thoracoabdominal aortic interventions. *Curr Opin Anaesthesiol*. 2014 Feb;27(1):98-105.

12:15 - 12:30

TAVR and the Expanding Role of the Anesthesiologist

Allan Stewart, New York, NY, USA

Keywords: TAVR, Anesthesia, echocardiography, TTE

12:30 - 12:45

What is New in CABG Surgery?

Richard Daly, Rochester, MN, USA

Keywords: coronary artery disease - bilateral IMA grafts - arterial revascularization - CABG and PCI

12:45 - 13:00

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TUESDAY, JANUARY 17th, 2017

07:30 – 09:30 REGISTRATION

08:00 – 09:30 *One Lung Ventilation – Workshop**

Edmond Cohen, New York, NY, USA; Dawn Desiderio, New York, NY, USA; Javier Campos, Iowa City, IA, USA; Harleena Gulati, Winnipeg, Canada; Bob Williams, New York, NY, USA

***** Difficult Airway – Simulation Workshop**

Brian Hill, New York, NY, USA; Ian Sampson, New York, NY, USA; Theresa Gelzinis, Pittsburgh, PA, USA; Bob Williams, New York, NY, USA

09:30 – 11:00 THORACIC SURGERY AND ANESTHESIA

Moderators: Dawn Desiderio, New York, NY, USA
Jeffery Vender, Evanston, IL, USA

09:30 – 09:40 Preoperative Evaluation of Thoracic Patients

Alessia Pedoto, New York, NY, USA

Key words: Non cardiac thoracic surgery - preoperative testing - exercise tolerance - consultation

09:40 – 09:50 Hypoxia During One Lung Ventilation – What's New?

Javier Campos, Iowa City, IA, USA

Key words: Hypoxemia, Thoracic surgery, One-lung ventilation, ECMO extracorporeal membrane oxygenator.

Reference: Campos JH: Hypoxemia during thoracic surgery: practical advice for the anesthesiologist. ASA Refresher Courses 2013;41:38-46

09:50 – 10:00 The EZ Blocker for One-Lung Ventilation

Martin Dworschak, Vienna, Austria

Keywords: One-lung ventilation, EZ-blocker

10:00 – 10:10 Tracheal Resection: Sharing The Airway

Dawn Desiderio, New York, NY, USA

Key Words: Shared Airway, Preoperative assessment, Jet ventilation, Communication

Reference: Chen A, Ochroch EA; Tracheal Resection In Fleisher LA, Roizen MF, eds. Essence of Anesthesia Practice, 3rd edition 2015, Elsevier Saunders, pg 547.

10:10 – 10:20 Tracheal Resection: Surgical View

Svetozar Harustiak, Bratislava, Slovakia

Key Words: Tracheal stenosis, tracheal resection



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- 10:20 – 10:30** **Perioperative Analgesia for Thoracic Surgery**
Stelian Serban, New York, NY, USA
Keywords: Pain control, Thoracic epidural, Paravertebral, Intercostal block
- 10:30 – 10:40** **Lung Cancer – Screening**
Raja Flores, New York, NY, USA
Keywords: Lung cancer, low-dose CT screening, NLST, I-ELCAP
- 10:40 – 10:50** **Robotic Assisted Thoracic Surgery**
Paul Waters, Greenwich, CT, USA
Keywords: robotic surgery, thoracic surgery, DaVinci
- 10:50 – 11:00** **Future of Thoracic Surgery and Anesthesia**
Edmond Cohen, New York, NY, USA
Keywords: Lung separation, Awake VATS
- 11:00 – 11:30** **DISCUSSION & COFFEE BREAK**
- 11:30 – 11:50** **SPECIAL LECTURE**
Introduction: George Silvay, New York, NY, USA
Minimally – Invasive Cardio-thoracic Surgery: Are Clinical Outcomes Significantly Better than Conventional Surgery?
Davy Cheng, London, Ontario, Canada
Keywords: Minimally invasive, outcomes
- 11:50 – 13:00** **CARDIOVASCULAR INNOVATIONS**

Moderators: Joerg Ender, Leipzig, Germany
Arie Blitz, McAllen, TX, USA
- 11:50 – 12:00** **Cardiac Devices and the Anesthesiologist**
Sheela Pai Cole, Palo Alto, CA, USA
Keywords: ventricular assist devices, preoperative optimization, echo in VAD patients
- 12:00 - 12:10** **Anesthetic and Echocardiographic Management in the Mitral Clip Operation**
Joerg Ender, Leipzig, Germany
Keywords: Mitral clip, Percutaneous, Transeptal puncture
- SPECIAL LECTURES:**
- 12:10 – 12:30** **Introduction: George Silvay, New York, NY, USA**
Update on Mechanical Circulatory Support 2016



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Arie Blitz, McAllen, TX, USA

Keywords: Mechanical Circulatory Support, VAD

12:30 – 12:50

Introduction: Menachem Weiner, New York, NY, USA

Near-Infrared Spectroscopy in Cardiac Surgery

Andre Denault, Montreal, Quebec, Canada

Key words: near-infrared spectroscopy, cardiac surgery, bedside ultrasonography, transesophageal echocardiography

References: 1.Deschamps A, Hall R, Grocott H, et al. Cerebral Oximetry Monitoring to Maintain Normal Cerebral Oxygen Saturation during High-risk Cardiac Surgery: A Randomized Controlled Feasibility Trial. *Anesthesiology*.2016;124(4):826-836.

2.Denault AY, Couture P, Beaulieu Y, et al. Right Ventricular Depression After Cardiopulmonary Bypass for Valvular Surgery. *Journal of cardiothoracic and vascular anesthesia*. 2015;29(4):836-844.

3.St-Pierre P, Deschamps A, Cartier R, Basmadjian AJ, Denault AY. Inhaled milrinone and epoprostenol in a patient with severe pulmonary hypertension, right ventricular failure, and reduced baseline brain saturation value from a left atrial myxoma. *Journal of cardiothoracic and vascular anesthesia*. 2014;28(3):723-729.

4.Denault A, Lamarche Y, Rochon A, et al. Innovative approaches in the perioperative care of the cardiac surgical patient in the operating room and intensive care unit. *Can J Cardiol*. 2014;30 (12 Suppl):S459-477.

5.Deschamps A, Lambert J, Couture P, et al. Reversal of decreases in cerebral saturation in high-risk cardiac surgery. *J CardiothoracVasc Anesth*. 2013;27(6):1260-1266.

6.Mailhot T, Cossette S, Lambert J, Cournoyer A, Denault AY. Cerebral oximetry as a biomarker of postoperative delirium in cardiac surgery patients. *J Crit Care*. 2016;34:17-23.

12:50

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WEDNESDAY, JANUARY 18th, 2017

07:30 – 09:30 REGISTRATION

08:00 – 09:30 *Transthoracic ECHO Workshop**
Joerg Ender, Leipzig, Germany; Marc Stone, New York, NY, USA; Zak Hillel, New York, NY, USA; Theresa Gelzinis, Pittsburgh, PA, USA; Bob Williams, New York, NY, USA

09:30 – 11:00 CRITICAL CARE

Moderators: Tomas Kotulak, Prague, Czech Republic
Umesh Gidwani, New York, NY, USA

- 09:30 – 09:40 How Does What Happens in the OR Influence the ICU?**
Ali Kutsal, Ankara, Turkey
Keywords: Postoperative care-Cardiopulmonary bypass-Pattern recognition of recovery-Low cardiac output
- 09:40 – 09:50 Acute Kidney Injury**
Ilona Bobek, Budapest, Hungary
Keywords: Risk stratification-AKI Biomarkers- AKI in special diseases
- 09:50 – 10:00 Ventilation Management in ICU**
George Grigolia, Tbilisi, Georgia
Keywords: Ventilation Loops, Upper and Lower "Inflection Point", Recruitment of Lungs
- 10:00 – 10:10 Obstructive Sleep Apnea, Perioperative Management: What is the Evidence?**
Martin Nitsun, Evanston, IL, USA
Keywords: Preoperative Screening - Post-operative Complications - CPAP Therapy
- 10:10 – 10:20 Building a Perioperative Safety and Quality Program**
Christopher Jankowski, Rochester, MN, USA
Keywords: safety and quality, process improvement, perioperative care
Reference: Kalogera E, Bakkum-Gamez JN, Jankowski CJ, et al: Enhanced recovery in gynecologic surgery. Obstet Gynecol 2013; 122:319-28
- 10:20 – 10:30 Elderly with Chronic Kidney Disease in ICU**
Silvester Krcmery, Bratislava, Slovakia
Keywords: Kidney disease- Prevention and Treatment - Elderly in ICU



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- 10:30 – 10:40** **Postoperative Respiratory Depression**
Toby Weingarten, Rochester, MN, USA
Keywords: Postoperative Respiratory Depression, Hypercarbic Respiratory Arrest, Obstructive Sleep Apnea
References: 1. Weingarten TN, Warner LL, Sprung J. Timing of postoperative respiratory emergencies: when do they really occur? *Curr Opin Anaesthesiol.* 2016 Sep 28. [Epub ahead of print]
2. Weingarten TN, Chong EY, Schroeder DR, Sprung J. Predictors and outcomes following naloxone administration during Phase I anesthesia recovery. *J Anesth.* 2016 Feb;30(1):116-22.
3. Weingarten TN, Herasevich V, McGlinch MC, Beatty NC, Christensen ED, Hannifan SK, Koenig AE, Klanke J, Zhu X, Gali B, Schroeder DR, Sprung J. Predictors of Delayed Postoperative Respiratory Depression Assessed from Naloxone Administration. *Anesth Analg.* 2015 Aug;121(2):422-9.
4. Weingarten TN, Jacob AK, Njathi CW, Wilson GA, Sprung J. Multimodal Analgesic Protocol and Postanesthesia Respiratory Depression During Phase I Recovery After Total Joint Arthroplasty. *Reg Anesth Pain Med.* 2015 Jul-Aug;40(4):330-6.
5. Weingarten TN, Bergan TS, Narr BJ, Schroeder DR, Sprung J. Effects of changes in intraoperative management on recovery from anesthesia: a review of practice improvement initiative. *BMC Anesthesiol.* 2015 Apr 23;15:54.
6. Hamlin RJ, Sprung J, Hofer RE, Schroeder DR, Weingarten TN. Obesity trends in the surgical population at a large academic center : a comparison between 1989-1991 to 2006-2008 epochs. *Acta Chir Belg.* 2013 Nov-Dec;113(6):397-400.
7. Weingarten TN, Kor DJ, Gali B, Sprung J. Predicting postoperative pulmonary complications in high-risk populations. *Curr Opin Anaesthesiol.* 2013 Apr;26(2):116-25.
- 10:40 – 10:50** **Neuromuscular monitoring and patient outcomes**
Glen Murphy, Evanston, IL, USA
Keywords: Train of four, Neuromuscular blockade, Patient outcome
- 10:50 – 11:00** **History and Evolution of Cardiac Critical Care**
Umesh Gidwani, New York, NY, USA
Keywords: Cardiac critical care-state of the art, history
- 11:00 – 11:30** **DISCUSSION & COFFEE BREAK**
- 11:30 – 13:45** **CARDIAC ANESTHESIOLOGY AND SURGERY**
Moderators: Ulku Aypar, Ankara, Turkey



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Marc Stone, New York, NY, USA

- 11:30 - 11:40** **ACE-I and ARB and the Perioperative Period**
David Bronheim, New York, NY, USA
Keywords: ACE-inhibitors, perioperative management
- 11:40 - 11:50** **Applications of Cardiovascular PET/CT**
Erick Alexanderson, Mexico City, Mexico
Keywords: Cardiac CT, Cardiac PET
- 11:50 - 12:00** **Hybrid Coronary Revascularization: Current State and Perspective**
Galina Leyvi, New York, NY, USA
Keywords: Robotically assisted LIMA to LAD, PCI
- 12:00 - 12:10** **Carcinoid Heart Disease**
Javier Castillo, New York, NY, USA
Keywords: Carcinoid, Cardiac carcinoid
- 12:10 - 12:20** **Update on Levosimendan**
Norbert Huebner, Bad Rothenfelde, Germany
Keywords: Inodilator Levosimendan, Cardiac surgery, Hemodynamic, Intensive care
- 12:20 - 12:30** **Atrial Fibrillation Following Cardiac Surgery**
Jacob Gutsche, Philadelphia, PA, USA
Keywords: Electrolyte repletion, Amiodarone, Rate vs Rhythm control
References: 1.Arsenault KA, Yusuf AM, Crystal E, et al. Interventions for preventing post-operative atrial fibrillation in patients undergoing heart surgery. The Cochrane database of systematic reviews 2013;1:CD003611.
2.Raiten JM, Ghadimi K, Augoustides JG, et al. Atrial fibrillation after cardiac surgery: clinical update on mechanisms and prophylactic strategies. J Cardiothorac Vasc Anesth 2015;29:806-16.
3.Gillinov AM, Bagiella E, Moskowitz AJ, et al. Rate Control versus Rhythm Control for Atrial Fibrillation after Cardiac Surgery. N Engl J Med 2016;374:1911-21.
- 12:30 - 12:40** **Neurological Complications Following Cardiac Surgery**
Ekaterina Patarai, Vienna, Austria
Key words: Postoperative seizures-neurological complications-diagnostic procedure-outcome
- 12:40 - 12:50** **Right Ventricular Dysfunction in Cardiac Surgery**
Frank Kletzin, Rostock, Germany
Keywords: RV chamber assessment, RV systolic and diastolic function parameters, Therapeutic options in RV dysfunction, RV dysfunction algorithm
- 12:50 - 13:00** **Value of Spinal Cord Protection in TAAA**



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- 13:00 – 13:10** George Djaiani, Toronto, Ontario, Canada
Management of Patients with Metabolic Syndrome for Cardiac Surgery
Hushan Ao, Beijing, China
Keywords: Metabolic Syndrome; management; Cardiac Surgery
- 13:10 - 13:20** **Anesthetic Management of the Complicated Parturient – Including Cardiac**
Jonathan Epstein, New York, NY, USA
Keywords: Obstetrical anesthesia guidelines, Parturient with cardiac disease
- 13:20 – 13:30** **Heart Transplantation**
Hynek Riha, Prague, Czech Republic
Key words: heart transplantation – pulmonary hypertension – right ventricular dysfunction/failure – organ donor – waiting list – International Society for Heart and Lung Transplantation (ISHLT) registry – seniors
- 13:30 – 13:45** **DISCUSSION**



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THURSDAY, JANUARY 19TH, 2017

07:30 – 09:30 REGISTRATION

08:00 – 09:30 *Hands-On Regional Block Workshop**
Meg Rosenblatt, New York, NY, USA, Michael Anderson, New York, NY, USA; Lawrence Epstein, New York, NY, USA; Bob Williams York, NY, USA

09:30 – 10:00 SPECIAL LECTURE
Introduction: Menachem Weiner, New York, NY, USA
Pacemakers and ICDs
Marc Stone, New York, NY, USA
Keywords: Differences between a pacemaker and an ICD, Pacemaker dependence, Perioperative interference with proper function of pacemakers and ICDs, Plan for safe perioperative management of pacemakers and ICDs

10:00- 11:30 PAIN MANAGEMENT

Moderators: Lawrence Epstein, New York, NY, USA
Meg Rosenblatt, New York, NY, USA

10:00 – 10:10 Anesthetic Management for Hip Replacement in the Elderly
Michael Anderson, New York, NY, USA
Keywords: Geriatric, hip fracture, hip replacement

10:10 – 10:20 Ultrasound-Guided Nerve Blocks for Non-Orthopedic surgery
Meg Rosenblatt, New York, NY, USA
Keywords: Pecs 1 Block, Pecs 2 Block, Serratus Plane Block

10:20 –10:30 Post-Thoracotomy Pain Management
Srinivas Coimbatore, Toronto, Canada
Key words: Thoractomy pain - Multi modal analgesia, Epidural versus Paravertebral current evidence.

10:30 - 10:40 Thoracic Epidural Anesthesia for Cardiac Surgery
Martin Stritesky, Prague, Czech Republic

10:40 - 10:50 Should Ultrasound be required for All Central Line placement?
Mark Abel, New York, NY, USA
Key Words: Carotid Puncture-Ultrasound-Malposition-Pneumothorax



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- 10:50 - 11:00** **How to Run a Pain Management Clinic**
Lawrence Epstein, New York, NY, USA
Keywords: Staffing a Pain Management Office, Equipping a Pain Management Office, Pain Management Billing & Collection
- 11:00 - 11:20** **DISCUSSION & COFFEE BREAK**
- 11:20 – 11:40** **SPECIAL LECTURE**
Introduction: George Silvay, New York, NY, USA
Health Care Reform: Implications of Newer Payment Models on Anesthesia Practice
David Reich, New York, NY, USA
Keywords: Health care reform, Value in healthcare, diagnosis-related group, inpatient prospective payment system
- 11:40 – 12:40** **HEMATOLOGY**
- Moderators:** Marc Stone, New York, NY, USA
George Djaiani, Toronto, Ontario, Canada
- 11:40 – 11:50** **Bloodless Cardiac Surgery**
Jitka Lomova, Prague, Czech Republic
Keywords: Bloodless Cardiac Surgery, Jehovah’s Witness, Recombinant Erythropoietin
- 11:50 - 12:00** **Cardiopulmonary Bypass without Heparin**
Kent Rehfeldt, Rochester, MN, USA
Keywords: cardiopulmonary bypass, heparin, bivalirudin
Reference: Rehfeldt KH, Barbara DW. Cardiopulmonary bypass without heparin. Seminars in Cardiothoracic and Vascular Anesthesia 2016; 20: 40- 51
- 12:00 – 12:10** **Perioperative Management of New Oral Anticoagulants**
Mark Smith, Rochester, MN, USA
Keywords: New oral anticoagulants, Perioperative bleeding, Anticoagulant reversal, Appropriate timing of surgery or regional anesthesia in patients taking newer anticoagulants
- 12:10 – 12:40** **PANEL: Management of Coagulation During Cardiac Surgery**
Moderator: Menachem Weiner, New York, NY, USA
- Panel:** George Djaiani, Toronto, Ontario, Canada
Bernardo Fernandez, Mexico City, Mexico



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16:00 – 18:00 *PRESENTATION OF INTERESTING & COMPLEX CASES**
By Residents, Fellows and Junior Attendings (Power Point Presentation – 10 minutes)

Moderators: Ian Sampson, New York, NY, USA
Menachem Weiner, New York, NY, USA

Members of Jury: Edwin Boelke, Dusseldorf, Germany
George Djaiani, Toronto, Ontario, Canada
Joerg Ender, Leipzig, Germany
Michael Howie, Cleveland, OH, USA
Isabelle Michaux, Yvoir, Belgium
Jan Rival, Detroit, MI, USA

Program - Prizes to the three best presentations will be awarded Friday. (Before Coffee Break)

1. David W. Brown, M.D. Rochester, MN, USA--Carcinoid Crisis in Thoracic Surgery
2. Zhi-Dong Ge. Milwaukee, Wisconsin, USA-- Cardiomyocyte-specific overexpression of human GTP cyclohydrolase 1 gene protects against cardiac remodeling and dysfunction after myocardial infarction in mice
3. Bradford B. Smith M.D. Rochester, MN, USA-- Liver Laceration Following Cardiopulmonary Resuscitation Resulting in Abdominal Compartment Syndrome while on Extracorporeal Membrane Oxygenation
4. K. Skhirtladze-Dworschak M.D. Vienna, Austria-- Incidence and Impact of Seizures after Cardiac Surgery
5. Megan Friedman, D.O., New York, NY, USA-- Airway Management in a Five Year-Old with Severe Oral Contractures, Obliterated Nasal Passages, and a Recently Closed Tracheostomy
6. Glenn Murphy, M.D. Evanston, Illinois, USA--Efficacy and Safety of Intraoperative Methadone in Patients Undergoing Posterior Spinal Fusion Surgery: A Randomized, Double-Blinded Clinical Trial
7. C. Matuschek. Dusseldorf, Germany-- How toxic and effective is cetuximab in advanced head and neck cancer with high risk of locoregional recurrence?
8. Mohammed Taque Ansari. Hyderabad India-- Acupuncture for Pain Management in Evidence-based Medicine
9. Alexander Woltersom. Warsaw, Poland-- Another approach to analyze the dynamics of the tricuspid valve annulus
10. Natalie K Smith M.D. New York, NY, USA-- Anesthetic and Obstetric Management of Massive Post-Partum Hemorrhage
11. David Shapiro, M.D. New York, NY, USA-- Diagnosis of Subclavian Artery Stenosis after Anesthetic Induction
12. Matthew T. Sanidad, M.D. New York, NY, USA-- Kounis syndrome after induction of general anesthesia during a renal allotransplantation
13. Nourah Mazid D. O. New York, NY, USA-- The insertion of a total artificial heart as a bridge to a tertiary orthotopic heart transplant



Short Syllabus

14. Shane Dickerson M.D. New York, NY, USA-- Paradoxical Embolism in a patient with undiagnosed patent foramen ovale leading to cardiovascular collapse
15. Danielle Hohbein M.D. Rochester, MN, USA--Controlling the Pain: Acute Pain Management in Buprenorphine Users

18:00 - 20:00

35th Year ANNIVERSARY Celebration. Memories from the Annual International Symposia 1982 – 2017.

Moderators: Bryan Hill and Christopher Curatolo

Refreshments will be served.

How this all happened?

Looking back at 35 years of Symposia with George Silvay

Brief Comments from “Chronic” Participants: Davy Cheng, Edmond Cohen, Richard Daly, Michael Howie, Joel Kaplan, Pastor Luna, David Reich, Ian Sampson, Marc Stone, Allen Unger

Memories

Last

Forever



Short Syllabus

FRIDAY JANUARY 20th, 2017

07:30 – 08:30 **REGISTRATION**

08:00 – 09:45 **LEGAL AND ETHICAL DILEMMAS**

Moderators: Robert Lagasse. New Haven, CT, USA
Pastor Luna, Mexico City, Mexico

- 08:00-08:10 Drawing Up Medicines in Advance: Where We Stand with Accreditors and USP**
Rich Beers, New York, NY, USA
Keywords: Medication safety; Infection Control; Perioperative Anesthesia Care
Reference: Beers RA. Infection Control Recommendations for Anesthesia Professionals: What's the Evidence? ASA Monitor 05 2015, Vol.79, 48-67.
- 08:10 – 08:20 Update on Dental Clearance for Cardiac Surgery**
David Valauri, New York, NY, USA
Keywords: Dental clearance, oral infection
- 08:20 - 08:30 Practice Management Update 2016**
Maria Galati, New York, NY, USA
Keywords: Practice Management; Reimbursement; Business Planning
Key reference: Galati MF, Williams R; "Business Planning Considerations for a Healthcare Simulation Center." In: The Comprehensive Textbook of Healthcare Simulation, Levine AI, DeMaria S, Schwartz A, Sim A.; New York, Springer Science & Business Media, 2013.
- 08:30 - 08:40 Vulnerable Young Brains During Intervention and Surgery**
Zeljko Bosnjak, Milwaukee, WI, USA
Keywords: Anesthetics, developmental neurotoxicity, stem cell, neurodevelopment
- 08:40 - 08:50 HIPAA and Privacy**
James Szalados, Rochester, NY, USA
Keywords: Confidentiality, HIPAA, Office of Civil Rights, PHI
- 08:50 - 09:00 Team-Based Deliveries of Medical Services**
Thomas Higgins, Greenfield, MA, USA
Keywords: Accountable Care Act, Health Care Delivery, Advanced Practitioners
Reference: Higgins TL, Hodnicki D, Artenstein A: Sharing Care in an



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- 09:00 - 09:10** ACO Environment Am J Accountable Care 2014: 9.14: 27-30
The Role of Dedicated Teams in Complex Cardiac Cases
Bozena Woltersom-Zwierzynska, Groningen, Netherlands
Keywords: Dedicated Team - Complicated Cardiac and Aortic Aneurysm Cases - Perioperative Care – Risk Assessment – Postoperative Complications – Prevention and results
- 09:10-09:20** **An Update for 2017 on the German Health Care System**
Edwin Boelke, Dusseldorf, Germany
Keywords: German health care System; Insurance system; Financial Situation
- 09:20-09:30** **Measuring Physician Performance: Metric, Money, and Myths**
Robert Lagasse. New Haven, CT, USA
Keywords: performance measurement, practice management
- 09:30 - 09:45** **DISCUSSION & COFFEE BREAK**
- 09:45 - 12:15** **MISCELLANEOUS TOPICS**
- Moderators:** Ian Sampson, New York, NY, USA
Tomas Drabek, Pittsburgh, PA, USA
- 09:45- 09:55** **Hemodynamic Changes in the Morbidly Obese**
Guillermo Dominguez-Cherit, Mexico City, Mexico
Keywords: Effects of obesity on hemodynamics
- 09:55 - 10:05** **Anesthesia for Electrophysiological Procedures**
Achal Dhir, London, Ontario, Canada
Keywords: Electrophysiology study - Cardiac arrhythmias - Arrhythmia mapping - Ablation techniques - complications
- 10:05 - 10:15** **Prosthetic Mitral Valves in Pediatrics**
Antonio Benita, Mexico City, Mexico
Keywords: Pediatric cardiac surgery, prosthetic valves
- 10:15 - 10:25** **Update in Normothermia: Why and How?**
Ian Sampson, New York, NY, USA
Keywords: Effects of anesthesia on Thermoregulatory control- Evolution of current thought; Deleterious effects of intraoperative and postoperative hypothermia; Prevention of intraoperative hypothermia; Future trends; Regulatory issues
- 10:25 - 10:35** **Update in Sepsis**
Tomas Drabek, Pittsburgh, PA, USA



Short Syllabus

	Key words: Sepsis, new concepts and treatments
10:35 - 10:45	Conscious Sedation in Transcatheter Aortic Valve Replacement Prakash Patel, Philadelphia, PA, USA
10:45 - 10:55	Keywords: TAVR; conscious sedation; monitored anesthesia care Anesthesia for Percutaneous Mitral Valve Replacement Thereza Gelzinis, Pittsburgh, PA, USA
10:55 - 11:05	Keywords: Minimally invasive heart procedures, percutaneous mitral valve replacement Anesthesia for Radiological Procedures Anne Kolker, New York, NY, USA
11:05 - 11:15	Keywords: Non-OR anesthesia, Radiological anesthesia Effect of Remifentanyl on Potassium Channels in Human Cardiomyocytes Martin Martinez, Mexico City, Mexico
11:15 - 11:25	Keywords: Remifentanyl, ion currents, potassium channels and cardiac electrophysiology Cricoid Pressure and Pulmonary Aspiration Robert Friedhoff, Rochester, MN, USA
11:25 - 11:35	Key words: Pulmonary Aspiration, Cricoid Pressure Surgery for Acute Pulmonary Embolism Ramachandra Reddy, New York, NY, USA
11:35 - 11:45	Keywords: Pulmonary embolus, Pulmonary endarterectomy, TPA Stellate Ganglion Blockade for Refractory VT/VF Erica Wittwer, Rochester, MN, USA
11:45 - 11:55	Keywords: Ventricular tachycardia/fibrillation - Sympathectomy - Myocardial Ischemia - Prevention and results Patients with Recent Coronary Stents for Non-Cardiac Surgery Zdravka Zafirova, New York, NY, USA
11:55 - 12:05	Keywords: Coronary stents, New generation coronary stents Nutrition for Cardiac Surgical Patients Fran Grossman, New York, NY, USA
12:05	Keywords: Nutrition, Albumin CONCLUDING COMMENTS George Silvay, New York, NY, USA



Short Syllabus

SAVE THE DATES!

**The 36th Annual International Symposium: Clinical Update in Anesthesiology,
Surgery and Perioperative Medicine
with Industrial Exhibits and Complimentary Workshops**

January 14 – 19, 2018

Location and information will follow.



Short Syllabus

Faculty name and Institutional Affiliation	Disclosures
Mark Abel, MD Attending Anesthesiologist Maimonides Medical Center Brooklyn, NY, USA	none
Erick Alexanderson, MD President of the Mexican Society of Cardiology Chairman of Nuclear Cardiology Department Instituto Nacional de Cardiología “Ignacio Chávez” American College of Cardiology Chair Elect Assembly of International Governors Mexico City, Mexico	none
Michael Anderson, MD Assistant Professor of Anesthesiology Icahn School of Medicine at Mount Sinai New York, NY, USA	none
Hushan Ao, MD, PhD Professor, Dept of Anesthesiology Chair of Dept of Health Insurance Peking Union Medical College National Fuwai Heart Center Senator, Beijing City Director, Health Committee in 93 Party Central secretary-general, CSCTVA Beijing City, China	none
Yianni Augoustides MD, FASE, FAHA Professor, University of Pennsylvania Philadelphia, PA, USA	none
Ulku Aypar, MD Professor and Chair Dept. of Anesthesiology and Intensive Care Medicine Hacettepe University Ankara, Turkey	none
Daniel Bainbridge, MD Associate Professor of Anesthesiology/Director of Cardiac Anesthesia Schulich School of Medicine & Dentistry, University of Western Ontario London, Ontario, Canada	none



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Richard Beers, MD Professor, Anesthesiology SUNY Upstate Medical University Syracuse, NY, USA	none
Antonio Benita, MD Cardiovascular Surgeon Instituto Nacional de Cardiología “Ignacio Chávez” México City, México	none
Arie Blitz, MD, MBA McAllen, TX, USA	St. Jude, Heartware, Abiomed (stock holder)
Ilona Bobek, MD, PhD Head of Department, ESzSzK KAIBO Budapest, Hungary	none
Edwin Boelke, MD Professor Dr. med., Department of Radiation Oncology Heinrich Heine University Dusseldorf, Germany	none
Zeljko Bosnjak, MD Professor, Medical College of Wisconsin Milwaukee, WI, USA	none
David Bronheim, MD Associate Professor of Anesthesiology Icahn School of Medicine at Mount Sinai New York, NY, USA	none
Javier H Campos, MD Professor Director of Cardiothoracic Anesthesia Department of Anesthesia Executive Medical Director of Perioperative Services University of Iowa Health Care Iowa City, IA, USA	ET Medical View, Ltd- Advisory Board Member
Javier Castillo, MD Assistant Professor of Cardiac Surgery Icahn School of Medicine at Mount Sinai New York, NY, USA	none
Jorge Catrip, MD Professor, Universidad Nacional Autónoma de México Mexico City, Mexico	none



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<p>Vladimir Cerny, MD, PhD, FCCM Professor Dept. of Anesthesiology, Perioperative Medicine and Intensive Care, J.E. Purkinje University, Masaryk Hospital, Usti nad Labem, Czech Republic Institute of Postgraduate Medical Education in Prague, Czech Republic Dept. of Research and Development, University Hospital Hradec Kralove Hradec Kralove, Czech Republic</p>	<p>none</p>
<p>Davy Cheng, MD MSc FRCPC FCAHS CCPE Distinguished University Professor & Chair / Chief Department of Anesthesia & Perioperative Medicine Professor, Division of Critical Care Medicine Department of Medicine London Health Sciences Centre & St. Joseph Health Care Western University University Hospital - LHSC London, Ontario, Canada</p>	<p>none</p>
<p>Edmond Cohen, MD Professor of Anesthesiology Icahn School of Medicine at Mount Sinai New York, NY, USA</p>	<p>none</p>
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<p>Christopher Curatolo, MD Fellow in Pain Management Department of Anesthesiology Icahn School of Medicine at Mount Sinai New York, NY, USA</p>	<p>none</p>
<p>Richard Daly, MD Professor of Surgery Mayo Clinic Rochester, MN, USA</p>	<p>none</p>



Short Syllabus

<p>André Denault, MD PhD Professor of Anesthesia and Critical Care Medicine Université de Montréal Montréal, Canada</p>	<p>Covidien (Speaker bureau)</p>
<p>Dawn Desiderio, MD Attending Anesthesiologist Department of Anesthesiology and Critical Care Medicine Memorial Sloan Kettering Cancer Center New York, NY, USA</p>	<p>none</p>
<p>Achal Dhir Associate Professor, Western University London, Ontario, Canada</p>	<p>none</p>
<p>George Djaiani, MD Associate Professor Department of Anesthesia and Pain Management Toronto General Hospital Toronto, Ontario, Canada</p>	<p>none</p>
<p>Guillermo Dominguez-Cherit, MD Head Division of Anesthesia, pulmonary and Critical Care Instituto Nacional de Ciencias Médicas y Nutrición "Salvador Subirán" Critical Care Fellowship Professor National University of México Director Life Sciences School TEC de Monterrey México City, México</p>	<p>none</p>
<p>Tomas Drabek, MD, PhD Associate Professor University of Pittsburgh School of Medicine Department of Anesthesiology Presbyterian University Hospital Pittsburgh, PA, USA</p>	<p>none</p>
<p>Martin Dworschak Assoc. Prof. of Anesthesia and Intensive Care Medicine Medical University of Vienna Vienna, Austria</p>	<p>none</p>



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<p>Jesse M. Ehrenfeld, MD, MPH Associate Professor of Anesthesiology, Surgery, Biomedical Informatics & Health Policy Director, Education Research – Office of Health Sciences Education Director, Program for LGBTI Health Associate Director, Vanderbilt Anesthesiology & Perioperative Informatics Research Division Department of Anesthesiology Vanderbilt University School of Medicine Nashville, TN, USA</p>	<p>none</p>
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<p>Raja M. Flores, MD Ames Professor of Cardiothoracic Surgery Chairman, Department of Thoracic Surgery Mount Sinai Health System Icahn School of Medicine at Mount Sinai New York, NY, USA</p>	<p>none</p>
<p>Brigid Flynn MD Associate Professor Anesthesiology and Critical Care Medical Director, Division of Critical Care The University of Kansas Hospital Kansas City, KS, USA</p>	<p>none</p>



Short Syllabus

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Short Syllabus

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MUDr. Daniela Harustiaková Nemocnica Svätého Michala Bratislava, Slovak Republic	none
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Short Syllabus

<p>Christopher J. Jankowski, MD Assistant Professor of Anesthesiology, Mayo Clinic Rochester, MN, USA</p>	<p>none</p>
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<p>Robert S. Lagasse, MD Professor & Vice Chair, Quality Management & Regulatory Affairs Department of Anesthesiology Yale University School of Medicine New Haven, CT, USA</p>	<p>none</p>



Short Syllabus

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<p>Ekaterina Patarai, Medical University of Vienna, Vienna, Austria</p>	<p>none</p>
<p>Prakash A. Patel, MD Assistant Professor University of Pennsylvania Philadelphia, PA, USA</p>	<p>none</p>
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<p>Mark M. Smith, MD Assistant Professor of Anesthesiology, Mayo Clinic Rochester, MN, USA</p>	<p>CLS Behring (Research support for study using Kcentra for bleeding after cardiac surgery. I will be discussing PCC use in bleeding associated with new oral anticoagulants.)</p>
<p>Juraj Sprung, MD, PhD Professor of Anesthesiology Mayo Clinic College of Medicine Rochester, MN, USA</p>	<p>none</p>
<p>Coimbatore Srinivas Assistant Professor, Dept Of Anesthesia University of Toronto Toronto, Canada</p>	<p>none</p>
<p>Allan Stewart, MD Associate Professor of Cardiac Surgery Icahn School of Medicine at Mount Sinai New York, NY, USA</p>	<p>none</p>



Short Syllabus

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<p>Joseph W. Szokol, MD Harris Family Foundation Chairman NorthShore University HealthSystem Evanston, Illinois Clinical Professor University of Chicago Pritzker School of Medicine Chicago, IL, USA</p>	<p>none</p>
<p>Allen Unger, MD Assistant Clinical Professor of Cardiology Icahn School of Medicine at Mount Sinai New York, NY, USA</p>	<p>none</p>
<p>David Valauri, DDS Assistant Clinical Professor of Otolaryngology and Dentistry Icahn School of Medicine at Mount Sinai New York, NY, USA</p>	<p>none</p>
<p>Jeffery Vender, M.D. Chairman Emeritus and Professor Depts of Anesthesiology and Critical Care Northwestern University School of Medicine Evanston, IL, USA</p>	<p>none</p>



Short Syllabus

<p>Paul Waters, MD FACS Professor of Surgery New York Medical College/Director Surgical Oncology at Greenwich Hospital Greenwich, CT, USA</p>	<p>none</p>
<p>Menachem M. Weiner, MD Associate Professor of Anesthesiology Director of the Division of Cardiothoracic Anesthesiology Icahn School of Medicine at Mount Sinai New York, NY, USA</p>	<p>none</p>
<p>Toby N Weingarten, MD Associate Professor of Anesthesiology Mayo Clinic Rochester, MN, USA</p>	<p>none</p>
<p>Robert Williams, MBA Director of Business Operations Department of Anesthesiology Mount Sinai St. Luke's and Mount Sinai West Hospitals New York, NY, USA</p>	<p>none</p>
<p>Erica D Wittwer, MD, PhD Assistant Professor, Mayo Clinic Rochester, MN, USA</p>	<p>none</p>
<p>Bo Woltersom-Zwierzynska, MD Head of Cardioanesthesiology Education Program University Medical Center Groningen Groningen, The Netherlands</p>	<p>none</p>
<p>Zdravka Zafirova, MD Director of Anesthesia Pre-operative Evaluation and Testing Center Assistant Professor, Section of Critical Care Department of Anesthesiology Icahn School of Medicine at Mount Sinai New York, NY, USA</p>	<p>none</p>