

Steven J. Kernis, MD, FACC, FSCAI

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EDUCATION AND TRAINING

Postgraduate Training

July 2004 – June 2005: Fellowship in Interventional Cardiology:

Mid America Heart Institute, Saint Lukes Hospital- Kansas City, MO

- Credentialing:
 - Coronary interventions
 - Including primary angioplasty, chronic total occlusions, Type C lesions, unprotected left main dz, saphenous vein and radial grafts, bifurcation lesions
 - Rotational and directional atherectomy
 - FilterWire EZ, GuardWire
 - Export catheter and AngioJet thrombectomy
 - Intravascular ultrasound (IVUS) and intracardiac ultrasound (ICE)
 - Exclusion of coronary aneurysms and treatment of coronary perforations with covered stents
 - Peripheral interventions

- Including carotid, vertebral, brachiocephalic, subclavian, axillary, celiac, superior mesenteric, renal, aortoiliac, femoropopliteal, and infrapopliteal angioplasty
 - Carotid stenting certification by Guidant, Cordis
- Abdominal aortic endovascular stent grafts
- Foxhollow Silverhawk atherectomy
- PolarCath cryoablation
- SafeCross RF ablation
- Pioneer (“Crosspoint”) CTO device
- Viabahn covered stents
- AneuRx abdominal aortic stent graft
- Structural interventions
 - Percutaneous PFO/ASD closure
 - Certification in Amplatzer PFO/ASD occluder devices
 - Mitral valvuloplasty
- Cardiac, non-coronary interventions
 - EtOH septal ablation
- Venous interventions
 - Subclavian vein stenting
 - IVC filter
- Closure Devices
 - Angioseal, Perclose, Starclose, Mynx
- Misc
 - Pericardiocentesis, IABP insertion

July 2001 – June 2004: Fellowship in Cardiovascular Medicine

William Beaumont Hospital- Royal Oak, MI

- Credentialing:
 - Diagnostic Right and Left Heart Catheterization (Level II) (including myocardial biopsy, temporary transvenous pacemaker insertion, pericardiocentesis, IVC filter placement, percutaneous arteriotomy closure)
 - Nuclear Cardiology (Level II and Licensure)
 - Permanent pacemaker implantation (Level II)
 - Transthoracic and transesophageal echocardiography (Level II)
 - Cardiac MRI (Level II)
 - Treadmill and pharmacological stress testing (Level II)

July 1998 – June 2001: Internal Medicine Residency

Mayo Graduate School of Medicine- Rochester, MN

July 1997 – June 1998: Transitional Medicine Intern

Providence Hospital, Southfield, MI

Medical Education

August 1993 – June 1997: DOCTORATE IN MEDICINE (M.D.)

Wayne State University School of Medicine- Detroit, MI

Undergraduate Education

September 1989 – June 1993: BACHELOR OF SCIENCE (B.S.) Major: Biology

University of Michigan- Ann Arbor, MI

EMPLOYMENT

2018 – Current: The Cardiovascular Centers, LLC , Marlton, NJ 08053

2011 –2017: Associated Cardiovascular Consultants (ACC)

Interventional Cardiology Attending, Principle of ACC, employed by Lourdes Health Systems, single specialty cardiovascular practice integrated with Lourdes Health System (A Division of CHE-Trinity Health Systems), Our Lady of Lourdes, Camden, NJ

- Director, Structural Heart Division
- Started TAVR program
- Started Mechanical Circulatory Support Program
- Interventional procedures performing include:
 - Coronary (including CTO revascularization via collaterals, Impella assisted high risk PCI, FFR, IVUS with virtual histology)
 - Peripheral (including carotid PTA/Stent, AAA endovascular stent grafting w/ IMA coil embolization, renal, subclavian, mesenteric, iliofemoral, popliteal, and tibial intervention)
 - Structural (including TAVR, MitraClip, balloon aortic valvuloplasty, PFO/ASD closure with intracardiac echo imaging, paravalvular leak closure, and alcohol septal ablation)
 - Mechanical Circulatory Support (ECMO placement, Impella insertion)

- Other (including TVP insertion, IVC filter)

2007 –2011: Metropolitan Cardiology Consultants- Suffern, NY

Interventional Cardiology Attending, Employed physician, private practice, single specialty cardiovascular group

2005 –2007: Kansas City Heart Group- Kansas City, MO

Interventional Cardiology Attending, Employed physician, private practice, single specialty cardiovascular group

2004 –2005: Saint Lukes Hospital, Mid America Heart Institute- Kansas City, MO

In-House Physician

2002- 2004: William Beaumont Hospital- Royal Oak, MI

Fellow Representative of House physician service

House Physician

2001: Aspen Medical Group- St. Paul, MN

Urgent care physician

RESEARCH & PUBLICATIONS

- Percutaneous Atrial Septostomy for Urgent Palliative Treatment of Severe Refractory Cardiogenic Shock due to Right Ventricular Failure. **Steven J. Kernis, MD**, James Goldstein,

MD, Michael Yerkey, MD, Robert N. Levin, MD, William O'Neill, MD. *Catheterization and Cardiovascular Interventions* May 2003; 59(1): 44-48.

- The Incidence, Predictors, and Outcomes of Early Reinfarction Following Primary Angioplasty for Acute Myocardial Infarction. **Steven J. Kernis, MD**, Kishore J. Harjai, MD, Gregg W. Stone, MD, Lorelei L. Grines, PhD, Judith A. Boura, MS, Michael W. Yerkey, MD, William O' Neill, MD, Cindy L. Grines, MD. *Journal of the American College of Cardiology* Oct 2003; 42(7): 1173-7.
 - Poster abstract presentation at Transcatheter Therapeutics conference, October 2002.
 - Poster abstract presentation at Michigan American College of Cardiology conference, October 2002.
- Another Feather in the Early Invasive Cap (Editorial). **Steven J. Kernis, MD**, Barry A. Franklin, PhD, Keisha R. Sandberg, William W. O'Neill, MD, Peter A. McCullough, MD, MPH. *American Journal of Medicine.* Dec 1, 2003; 115(8): 669-671.
- Does Beta-Blocker Therapy Improve Clinical Outcomes of Acute Myocardial Infarction After Successful Primary Angioplasty? A Pooled Analysis from the Primary Angioplasty in Myocardial Infarction-2 (PAMI-2), No Surgery-on-Site (noSOS), Stent-PAMI, and Air-PAMI Trials. **Steven J. Kernis, MD**, Kishore J. Harjai, MD, Gregg W. Stone, MD, Judith Boura, MS, Lorelei L. Grines, PhD, Judith A. Boura, MS, William O' Neill, MD, Cindy L. Grines, MD. *Journal of the American College of Cardiology.* May 19, 2004; 43(10):1773-9.
 - *Compendium Series- Cardiovascular* (accepted)

- *Circulation (supp)* Oct 2003; (abstract). *American Journal of Cardiology* Sep 2003; 92 (S6A): 117L. (abstract)
- Poster abstract presentation at American Heart Association Scientific Sessions, November 2003. Poster abstract presentation at Transcatheter Cardiovascular Therapeutics Conference, September 2003.
- A Tale of Two Milestones – From Vineberg to Cribier: The Miracle of Technology. **Steven Kernis, MD**, Kishore Harjai, MD, Arthur Martella, MD. *Journal of Invasive Cardiology* 2014; 26 (8): E117-E119.
- Does Oral Beta-Blocker Therapy Improve Long-Term Survival in ST-Segment Elevation Myocardial Infarction With Preserved Systolic Function? A Meta-Analysis. Naoki Misumida, MD, Kishore Harjai, MD, **Steven Kernis, MD**, Yumiko Kanei, MD. *Journal of Cardiovascular Pharmacology and Therapeutics*. Sep 2015, pgs 1-6.
- Renal Dysfunction and Acceleration of Coronary Artery Disease Michael W. Yerkey, MD, **Steven J. Kernis, MD**, Peter A. McCullough, MPH, MD. *Heart*. *Heart* 2004 Aug 90:961-6.
- Predictors of Postoperative Development of Atrial Fibrillation in Patients with Preoperative Normal Sinus Rhythm and Mitral Valve Insufficiency Who Underwent Mitral Valve Surgery. **Steven J. Kernis, MD**, Vuyisile T. Nkomo, MD, MPH, David Messika-Zeitoun, MD, Bernard Gersh, MB, CHB, Thoralf M. Sundt III, MD, Karla V. Ballman, PhD, Christopher G. Scott, MS, Hartzell V. Schaff, MD, Maurice Enriquez-Sarano, MD. *Circulation*. 2004;110:2320-2325.

- Oral abstract presentation at American Heart Association Scientific Sessions, November 2001.
- Clinical Outcomes associated with use of Drug-Eluting Stents compared with Bare-Metal Stents for Primary Percutaneous Intervention. **Steven J. Kernis, MD**; David J. Cohen, MD, M.Sc.; Kimberly J. Reid, MS; John E. Brush Jr. MD, Richard G. Bach, MD; John C. Messenger, MD; John S. Rumsfeld, MD PhD; Sanjaya Khanal MD; Jephtha P. Curtis, MD PhD; Eric Peterson, MD MPH, Harlan Krumholz MD SM; John A. Spertus, MD, MPH
- Oral Abstract presented at Transcatheter Cardiovascular Therapeutics 2005
- Poster Abstract presentation at American Heart Association Scientific Sessions Nov 2005
- Early Hemodynamic Compromise Following Uncomplicated Primary Angioplasty for Acute Myocardial Infarction. Michael Yerkey, MD, **Steven J. Kernis, MD**, Kishore Harjai, MD, Judith Boura, BS, Srinivas Dukkipati, MD, Dominic Marsalese, MD, William O' Neill, MD. *Circulation (supp)* Nov 2002; 106(19): II-363 (abstract).
- Oral abstract presentation at American Heart Association Scientific Sessions November, 2002. Poster abstract presentation at Transcatheter Therapeutics, October 2002.
- Medicine versus Angiography in the Triage of Unstable Angina/ Non-ST Elevation Myocardial Infarction: MATE II Trial. **Steven J. Kernis, MD (National Principal Investigator)**, James Goldstein, MD, Peter A. McCullough, MD, MPH, Dominic Marsalese, MD, Kishore Harjai, MD, Simon Dixon, MBChB, Gilbert Raff, MD, Brian O'Neil, MD, William W. O'Neill, MD
 - Prospective, randomized, multi-center clinical trial
 - Unrestricted research grants of \$1.3 million received

- Prematurely terminated Fall 2006
- PRIME ECG Improves Emergency Department Diagnosis and Management in Moderate to High Risk Patients with Unstable Angina/NSTEMI. Angela Batton, MD, Aaron Ryder, BS, **Steven Kernis, MD**, Jacob Dutcher, MD, William O'Neill, MD, Brian O'Neil, MD.
 - Prospective randomized study of moderate to high risk UA/NSTEMI ED patients comparing diagnostic and prognostic power of standard 12-lead electrocardiograms to the 80-lead PRIME ECG body surface mapping system.
 - Abstract presentation
- TIMI III Ultrasound Study. William O'Neill, MD (Principal Investigator), Simon Dixon, MBChB, Michael Yerkey, MD, **Steven J. Kernis, MD**.
 - Prospective clinical trial at William Beaumont Hospital (prematurely terminated Fall 2003)
 - Unrestricted research grant of \$100,000 grant received
- Percutaneous coronary revascularization of an occluded ostial circumflex artery arising from the right coronary cusp utilizing a retrograde epicardial collateral approach. **Steven J. Kernis, MD**, Lance Kovar, MD, David Brogno, MD. *Journal of Invasive Cardiology.* 2008; Vol 20 #1: E6-E8.

- Successful 24-hour Repuncture and Reclosure of the Common Femoral Artery with the Mynx Vascular Closure Device. **Steven J. Kernis, MD.** *TCTMD.com* (online case publication).

November 24, 2008.

- Reviewer for *Catheterization and Cardiovascular Interventions*
- Ad hoc reviewer for:
 - *American Board of Internal Medicine (ABIM)*
 - Question relevance reviewer for the Cardiovascular Examination for Board Certification 2006-2010
 - Question relevance reviewer for the Interventional Cardiovascular Examination for the Board Certification 2006-2010
 - *Journal of the American College of Cardiology*
 - *Circulation*
 - *American Journal of Cardiology*

March/1991 – January/1993

University of Michigan Medical Center, Robert Bartlett, MD

Student Researcher, Extra Corporeal Membrane Oxygenation (ECMO) laboratory

AWARDS, HONORS & MEMBERSHIPS

- SJ Magazine Top Docs 2014: Sole interventional cardiologist selected by reader's poll
- SJ Magazine Top Docs 2013: Interventional Cardiologist selected by physician peer's
- Fellow of the Society of Cardiovascular Angiography and Interventions (SCAI), 2012
- Fellow of the American College of Cardiology (FACC), 2006

- Aventis Cardiology Fellows Scholarship at American Heart Association 2003

TRAVEL GRANTS

- Access Closure VIP Forum, Mountain View, CA, October 2008
 - Access Closure funded unrestricted travel, lodging, course registration grant
- 12th Annual Cardiovascular Conference, Beaver Creek, Colorado, Feb 2003
 - Millennium Pharmaceuticals funded unrestricted travel, lodging, course registration grant
- Cordis Cardiovascular Technology Forum, Cincinnati, Ohio, March 2005
 - Cordis funded unrestricted travel, lodging, course registration grant
- Advanced Interventional Technologies, New York, NY, March, 2005
 - Medtronic funded unrestricted travel, lodging, course registration grant

LICENSURE & CERTIFICATION

American Board of Internal Medicine Certification issued Sept/2001 (expired 2011)

American Board of Nuclear Cardiology Certification issued Dec/2004

American Board of Cardiovascular Medicine issued Jan/ 2005

American Board of Interventional Cardiology issued Jan/ 2006

Minnesota Medical License issued Feb/2001 (expired Jan/2002)

Michigan Medical License issued July/2001 (expired Jan/2008)

Missouri Medical License issued Feb/2004 (expired Dec/2009)

Kansas Medical License issued June/2005 (expired Dec/2009)

New Jersey Medical License issued March/2007 (active)

New York Medical License issued March/2007 (active)

Pennsylvania Medical License issued December/2016 (active)

Nuclear Medicine Physics Course Completion (200 hours)