



- *Chief, Division of Cardiology*
- *Medical Director, Cardiovascular Service Line*
- *Professor of Medicine*
- *Division of Cardiology*
- *Department of Medicine*

Conditions Treated:

- *Hypertension*
- *High Cholesterol*
- *Heart Valve Disease*
- *Diastolic Dysfunction*
- *Coronary Artery Disease (CAD)*
- *Congestive Heart Failure*

Research Areas:

- *Atherosclerosis*
- *Acute Coronary Syndromes*
- *Tobacco Regulatory Science*
- *Cardiovascular Imaging*

Programs & Services:

- *Department of Medicine*
- *Cardiology Programs*
- *Division of Cardiology (Adult)*

Clinical Interests

Prevention of cardiovascular disease and treating those who have already experienced heart disease such as angina, heart attack, peripheral artery disease or congestive heart failure. This includes pre-operative evaluations, syncope (fainting), palpitations and arrhythmias (abnormal heart rhythms) such as atrial fibrillation. Graduate medical clinical and professional education remains a passion of his with over a decade of experience in leading both an internal medicine residency, a cardiovascular fellowship and an [NIH/FDA-funded virtual tobacco regulatory science fellowship with the American Heart Association](#) in addition to various national and international educational collaborations and leadership.

He performs clinical research related to atherosclerosis (hardening of the arteries), cardiac imaging and tobacco regulatory science.

Board Certification

Internal Medicine, Cardiovascular Disease

Education

- 2004 - The Johns Hopkins University Bloomberg School of Public Health, MD, M.H.S.,
2006 Cardiovascular Epidemiology
- 1993 - Loyola University Chicago-Stritch School of Medicine, M.D.
1997
- 1989 - The University of Michigan, B.A., Spanish
1993

Residency

1997 - 2000 The University of Michigan Health System, Internal Medicine

Fellowship

2000 - The Johns Hopkins University School of Medicine and The National Heart, Lung and
2004 Blood Institute, National Institutes of Health, Cardiovascular Medicine

Teaching or Professional Positions

2018-present: Gratis Professor of Medicine, Division of Cardiovascular Medicine, University of Louisville

2017-2018: Professor of Medicine, Division of Cardiovascular Medicine, University of Louisville

2014-2018: Clinical Director, Division of Cardiovascular Medicine, University of Louisville

2012-2018: Program Director, Cardiovascular Fellowship, University of Louisville

2012-2017: Associate Professor of Medicine, Division of Cardiovascular Medicine, University of Louisville

2012-present: Adjunct Assistant Professor of Medicine, Division of Cardiology, The Johns Hopkins University School of Medicine

2007-2012: Visiting Consultant, Eric Williams Medical Sciences Complex, Mt. Hope and San Fernando General Hospital, San Fernando, Trinidad and Tobago, West Indies

2007-2012: Associate Program Director, Johns Hopkins Bayview Internal Medicine Residency

2006-2012: Assistant Professor of Medicine, Division of Cardiology, The Johns Hopkins University School of Medicine

2004-2006: Instructor of Medicine, Division of Cardiology, The Johns Hopkins University School of Medicine

Professional Memberships

American College of Cardiology

American Heart Association

American College of Physicians

Alpha Omega Alpha Medical Honor Society

Awards & Recognition

2018-2020: American College of Cardiology Lifelong Learning Oversight Committee Member

2018-2020: Chair, Pharmacology Program, American College of Cardiology Annual Scientific Sessions

2017: Alpha Omega Alpha Honor Medical Society (AQA)

2016-2017: Co-Chair, Pharmacology Program, American College of Cardiology Annual Scientific Sessions.

2015-2019: Invited Member, Council on Clinical Cardiology Laennec and Post Graduate Education Committee, American Heart Association

2014: Outstanding Clinical Faculty of the Year, Division of Cardiology, University of Louisville

2014: University of Louisville Faculty Teaching Award, American College of Physicians, Kentucky Chapter

2010: Recognized by the American College of Cardiology Foundation as "Emerging Faculty"

2008: First Place, Junior Faculty Clinical Research-Northwestern Cardiovascular Young Investigators' Forum, Chicago, IL

2004-2006: Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grants (T32-HL07024), Johns Hopkins Bloomberg School of Public Health

2001: Finalist, Laennec Society Young Clinician Award, American Heart Association

1999: Bronze Beeper Award for Recognition of Medical Student Teaching, University of Michigan Health System

1997: Cum Laude, Loyola University Chicago-Stritch School of Medicine

Publications

Harkema SJ, Ditterline BL, Wang S, Aslan S, Angeli CA, Ovechkin A, Hirsch GA. Epidural Spinal Cord Stimulation Training and Sustained Recovery of Cardiovascular Function in Individuals With Chronic Cervical Spinal Cord Injury. *JAMA Neurol*. Published online September 17, 2018. doi:10.1001/jamaneurol.2018.2617

Harkema SJ, Wang S, Angeli CA, Chen Y, Boakye M, Ugiliweneza B, Hirsch GA. Normalization of Blood Pressure with Spinal Cord Epidural Stimulation after Severe Spinal Cord Injury. *Front. Hum. Neurosci.* 12:83. doi: 10.3389/fnhum.2018.00083

Brown LE, Bottinor W, Tripathi A, Carroll T, Dillon WC, Lokits C, Halperin HR, Hirsch GA. A Novel, 5-Minute, Multisensory Training Session to Teach High-Quality Cardiopulmonary Resuscitation to the Public: Alive in Five. *Circ Cardiovasc Qual Outcomes.* 2017 Jun;10(6). PMID: 28615176

Pant S, Patel NJ, Deshmukh A, Golwala H, Patel N, Badheka A, Hirsch GA, Mehta JL. Trends in infective endocarditis incidence, microbiology, and valve replacement in the United States from 2000 to 2011. *J Am Coll Cardiol.* 2015 May 19;65(19):2070-60. PMID: 25975469

Hirsch GA, Bottomley PA, Gerstenblith G, Weiss RG. Allopurinol acutely increases ATP Energy Delivery in Failing Human Hearts. *J Am Coll Cardiol.* 2012 Feb 28;59(9):802-8. PMID: 22361399

Doctor's Contact Information

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Locations

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Saint Joseph Hospital
1835 Franklin Street

Denver, CO 80218