



CURRICULUM VITAE

Stephen Harlin, MD, FACS
Preventive Precision Medicine

eMail drharlin@drharlin.com

Education

- 2016 Massachusetts General Hospital – Harvard Medical School
Certification, Mind–Body Medicine, Benson–Henry Institute (SMART)
- 1992 Temple University Hospital and St. Christopher’s Hospital for Children (Residency)
- 1991 Harvard University (Techniques in Cutaneous Laser Surgery, Training Certificate)
- 1990 University of Pennsylvania (Microvascular Training Program, Ronald Berezniak, PhD)
- 1986 Drexel University College of Medicine (Doctor of Medicine)
Alpha Omega Alpha Honor Society
Academic Distinction in Medicine (Graduation Honors)
- 1985 Mayo Clinic – Honors Research in Chronic Inflammation (Dedicated 1 Year Program)
Journal of Allergy and Clinical Immunology (Sentinel work on Eosinophilic Major Protein)
- 1982 Temple University
Post–baccalaureate Pre–Medical Program, 4.0 GPA
- 1976 Pennsylvania State University (Bachelor of Science in Political Geography)
Honors, Commencement Marshall for Graduating Class

Teaching and Academic Advising Positions

- 2016 – 2018 New College of Florida
Adjunct Professor, Natural Sciences
SMART Course (The Mind–Body–Microbiome Connection)
- 2013 – 2014 Lake Erie College of Osteopathic Medicine
Clinical Associate Professor, Director, Honors Research Program
Teaching Faculty: Empathy Training in Medical Simulation, Problem–based
Neurology Lecture Series, Neurobiology of Compassion
- 1992 – 2010 Hahnemann University Hospital and Drexel University College of Medicine
Clinical Assistant Professor, Adjunct (Introduction to Clinical Medicine)
Clinical Associate Professor, Adjunct (The Patient and the Physician)

Special Recognition

- 2008 National Committee for Quality Assurance (NCQA) Award Recipient
Highest award for use of evidence–based clinical information systems
- 2008 Bridges to Excellence Award (Advancement of Information Technology in Medicine)
- 2008 Who’s Who in America
- 2006 Apple Computer, Inc. – The Macintosh–based Electronic Health Record
(www.apple.com Homepage Feature “The Wound Healer”)

Research, Grants, and Scientific Consulting Positions

- 2018 New College of Florida (Sarasota, FL) [IRB Exemption 5/18/18]
Benson-Henry Institute for Mind-Body Medicine, Harvard Medical School
“Does High Coexpression of NF- κ B Inhibitor Alpha in the Brain and Intestinal Mucosal Explain an Anti-inflammatory Effect of the Relaxation Response on Brain-Gut Axis?”
- 2014-2018 Allen Brain Institute (Seattle, WA)
Collaboration, “The Genetics of Empathy”, Michael Hawrylycz, Ph.D. and Michelle Dossett, MD, Ph.D (Harvard Medical School)
Large scale data analysis of the human brain transcriptome
- 2014 Director, Honors Research Program (Lake Erie College of Osteopathic Medicine)
Pioneered a program that placed medical students in prominent positions of co-authorship and on the stages of national scientific gatherings. Our essays, papers, posters, and podium presentations covered a wide range of disciplines including cell biology and genetics, biochemistry and molecular biology, microbiology, physiology, pharmacology, and neuroscience.
- 2013 Agency for Healthcare Research and Quality (AHRQ)
US Longitudinal Hospital Care Data Use Training
Healthcare Cost and Utilization Project (HCUP)
- 2008 Plastic Surgery Educational Foundation (PSEF)
Board Member, Quality & Performance Metrics Board
Awarded 2008 PSEF Basic Research Grant for: “Culturing the Nonculturable: The Secret Pathogens of Chronic Wounds”
Primary author and developer of the protocol, clinical trial databases, informed consent documents.
- 2008 – 2009 Athena Biotechnologies (Barry Mars, Phd) – Drexel University College of Medicine
The "Secret Pathogens" in Chronic Wounds: Detection and Characterization of Bacteria from Clinically Uninfected Chronic Wounds Using Quorum Sensing Quenching™
- 2008 Independence Blue Cross and Blue Shield of Pennsylvania
“Blue Distinction Centers for Wound Care” – a template for linking third party payments to value, using a the Center of Excellence delivery model.
- 2007 Maintenance of Certification – Plastic Surgery
Drafted the wound care tracer module for wounds of the lower extremity.
Authored self-assessment for evaluations (SAFE) for surgical treatment plan and outcomes, complications, patient experience of care.
- 2007 Pennsylvania Medical Society Annual Conference: “New Tools For Success”
Keynote Address: “The Right Click: How Information Technology Can Reduce Costs Without Compromising Quality of Care”
- 2006 “Core Performance Measures in The Care of Chronic Lower Extremity Ulceration”
Developed the Core Performance Measurement Set for the American Society of Plastic Surgeons and the Plastic Surgery (ASPS) Educational Foundation (PSEF). The piece moved from Executive Committee to be submitted to the American Medical Association’s Consortium for Performance Improvement.
- 2006 American College of Surgeons National Surgical Quality Improvement Program (NSQIP Dallas Meeting)
Presented the methodological approach for measuring 3 outcome measures: Pain, Functional Status and Quality of Life, and Wound Healing Trajectories.

- 2005 NDA Partners and Agennix
Full-text review of phase 1/2 trial results for Talactoferrin, a recombinant human lactoferrin (rhLF) formulation for the treatment of intractable wounds
- 2005 Center for Medicare & Medicaid Services (Bethesda, MD)
Medicare Coverage Advisory Committee (MCAC)
As Voting Member of National Quality Forum (NQF), testified in favor of a national requirement for the electronic health record. Invited by Committee Medical Director, James Rollin, MD.
- 2000 European Tissue Repair Society (Bordeaux, France)
Paper Presentation: "Logic Engineering and Clinical Decision Support Systems: The Computer vs The Clinician" – in collaboration with Electrical Engineer Maureen A. Magner, MSEE
- 1998 Coauthor, Phase II FDA Protocol, Ortec International Inc.
Co-investigator and trial designer for a randomized study to evaluate allograft cells for skin equivalent
- 1997 Fourth International Congress on Angiogenesis Targets
Podium Speaker and Panelist: Clinical Applications for Vascular Endothelial Growth Factor (VEGF)
- 1997 US Food and Drug Administration (FDA)
Division of Clinical Trial Design and Analysis
On invitation of FDA cytokine biologist Dr. Kurt Stomberg:
Presented "Clinical Trial Design Issues Related to Chronic Non-Healing Wounds"
- 1986 Mayo Clinic Allergic Diseases Research Laboratory (ADRL), Gerald Gleich, MD
Original research that linked a protein product of eosinophils to IgE-mediated inflammation in respiratory epithelium.
- 1983 Hahnemann University School of Medicine
Bench Research: Growth factors' effect on nerve conduction after spinal trauma.

Oral Presentations

- 2016 The Roskamp Institute (Sarasota, FL)
"Can Alzheimer's Disease Be Prevented: A Review of the Medical Literature"
- 2014 The Roskamp Institute (Sarasota, FL)
"The Neurobiology of Compassion"
- 2013 New College of Florida – Science Seminar Guest Speaker
"The Neurobiology of Happiness"
- 2013 The Forum (Sarasota, FL)
"Hands-Only CPR and Good Samaritan Laws"
- 2007 Delaware County & Pennsylvania Medical Society Joint Meeting
"Economic Forces and Physician Morale"
Presented a summary review of the 2006 American College of Physician Executives Physician Morale Study.
- 2007 Pennsylvania Medical Society Second Annual "Tools For Success" Conference
Keynote Address: "The Right Click" – a presentation on how physicians' use of information technology could help reduce system-wide costs without compromising quality of care.
- 2001 Demonstration Project: The Wound Clinic
"Telemedicine and Wound Care"
Sponsored by Ortho-McNeil Pharmaceutical. Demonstration project for remotely obtaining wound care data, securely connecting to The Wound Clinic's server database, and updating patient's electronic medical record.

- 2002 Delaware County Memorial Hospital Grand Rounds
"The Effect of Stress on Wound Healing"
Discussed the interaction between the central nervous system, endocrine and immune systems and the delay in wound healing seen in "stressed" patients.
- 2002 The Wound Club: An Integrative Approach to Healing
Hosted a monthly support group for patients and their families who live with non-healing wounds. The emotional closeness felt by patients who share their experiences helps in accepting and defining their challenge.

Papers (1988 – 2009)

- Harlin, SL, Ansel, DG, Lane, SR, Myers, J, Gleich, GJ, "A Clinical and Pathological Study of Chronic Sinusitis: The Role of the Eosinophil." J Allergy Clinical Immunology 81:867-875, 1988.
- Harlin, SL, Ansel, DG, Lane, SR, Myers, J, Gleich, GJ, "A Clinical and Pathological Study of Chronic Sinusitis: The Role of the Eosinophil." Presented before the 1987 International Congress for Clinical Immunology.
- Harlin, SL, Barone, CM, "Compartment Syndrome in the Upper Extremity." Trauma Quarterly 6:74-80, 1990.
- Harlin, SL, Mitra, A, "Exercise Induced Peroneal Nerve Entrapment." Presented before the 1991 Robert H. Ivy Society Meeting.
- Harlin, SL, Mitra, A, "Peroneal Nerve Anatomy at The Knee." Presented before the Annual Meeting, 1991, American Society for Plastic and Reconstructive Surgeons.
- Harlin, SL, Mitra, A, "Peroneal Nerve Entrapment." Presented before the 1991 Northeastern Society for Plastic and Reconstructive Surgeons Meeting.
- Harlin, SL, Mitra, A, "Recurrent Carpal Tunnel Syndrome: A Role for Magnetic Resonance Imaging." Presented before the 1991 Northeastern Society for Plastic and Reconstructive Surgeons Meeting.
- Harlin, SL, "Techniques in the Use of the Microvascular Stapling Device: A Hands-On Course." Temple University Hospital Section of Plastic Surgery Course Director, 1991.
- Harlin, SL, "Free Flaps: Principles and Methods" Presented before Temple University Hospital Section of Plastic and Reconstructive Surgery, Grand Rounds, January, 1992.
- Mitra, A, Sabharwal, H, Harlin, S, "Treatment of the Massive Thoracolumbar Wounds and Vertebral Osteomyelitis Following Scoliosis Surgery" Presentation before the 1992 Robert H. Ivy Society Meeting.
- Mitra, A, Seidel, T, Harlin, S, "The Superficialis Snare: Profundus Entrapment After Isolated Avulsion of the Flexor Digitorum Superficialis Tendon." Journal of Hand Surgery, February 1992.
- Harlin, SL, "Examination of the Upper Extremity: From the Brachial Plexus to the Fingertip." Paper presented before Temple University Hospital Section of Plastic and Reconstructive Surgery, Grand Rounds, March 1992.
- Harlin SL, Mitra A. Treatment of Massive Thoracolumbar Wounds and Vertebral Osteomyelitis Following Scoliosis Surgery. Plast Reconstr Surg. 2004 Jan;113(1):206-13.

Harlin, S, "Clinical Performance Measures: Chronic Wounds of the Lower Extremity" Draft document for American Society of Plastic Surgeons, Plastic Surgical Educational Foundation and the American Medical Association's Physician Consortium for Performance Improvement, 2005.

Harlin SL, Willard LA, Rush KJ, Ghisletta LC, Meyers WC. Chronic Wounds of the Lower Extremity: a Preliminary Performance Measurement Set. *Plast Reconstr Surg.* 2008 Jan;121(1):142-74.

Harlin SL, Harlin RD, Willard LA, Rush, Ghisletta LC, Meyers WC. Computer-administration of a Structured Questionnaire for Evaluating Health-Related Quality of Life (HRQoL) in Patients with Chronic Wounds of the Lower Extremity. 2009 Sep 15;55(9):30-9.

Papers (2010 – 2019):

Harlin S, Balkam K, Sarno R. The Historical Role of Rationalism and Empiricism in Defining Medicine's Scope of Practice. AOA History Essay Competition – Awarded First Prize (\$2,500)

Cavayero CT, Cooper MA, Harlin SL. Adult-Acquired Hidden Penis in Obese Patients: A Critical Survey of the Literature. *J Am Osteopath Assoc.* 2015 Mar;115(3):150-156.

Rovito MJ, Cavayero C, Leone JE, Harlin S. Interventions Promoting Testicular Self-Examination (TSE) Performance: A Systematic Review. *Am J Mens Health.* 2014 Oct 30. [Epub ahead of print]

Harlin S, Fuller T. Do Wound Healing Devices Truly Accelerate Wound Healing: A Critical Appraisal. Florida Vascular Society: The Next Generation 2014 – Awarded \$1,000 Scholarship.

White, BM, Meyer, DL, Harlin SL. Negative-Pressure Wound Therapy a "Bridge to Reconstruction" for Poststernotomy Mediastinitis? A Systematic Review. *Advances in Skin & Wound Care:* July 9, 2019 – doi: 10.1097/01.ASW.0000569120.36663.34

Harlin S, Luster S, Beck C, White B. Negative Pressure Wound Therapy Complicated by Retained Foreign Body. 2014 Florida Medical Association Annual Meeting – Poster presentation and Abstract accepted for publication.

Harlin S, Hosseinipour M, Mjsoraca C. Marjolin's Ulcer: A Cutaneous Malignancy with an Enigmatic Etiopathogenesis. American College of Internists' Research Contest 2014 – Poster presentation.

Leadership and Activism

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| 2014 | Medical Mission to Treasure Beach, Jamaica. For four days, our group provided medical care to over 300 residents who either lacked access to or could not afford healthcare. |
| 2007 | United States Congressional Health Care Summit
Physician organizer, opening remarks, and panelist for summit aimed at discussing quality and patient safety, access to care, and health care coverage. Hosted by US Congressman Joe Sestak (PA-07) |

Fellowships and Certificates of Training

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| 2016 | CITI Human Subjects Research: Principal Investigator
Certificate 12590644
CITI Human Subjects Research: Co-investigator
Certificate 21432204 |
| 2016 | Benson-Henry Institute for Mind-Body Medicine, Harvard Medical School
Certification: Stress Management And Resilience Training (SMART) |

- 2016 Vanderbilt University School of Medicine
Studies in Precision Medicine (Online CME course in Genomics)
- 2007 Fellow in the American College of Surgeons (FACS)
Inducted into Fellowship
- 1993 Diplomate of the American Board of Plastic Surgery (Certificate #4772)
MOC 2005 (Exam score 92nd percentile)

Medical Licensure

North Carolina 257438 [Active, Unrestricted]
Florida ME 125254 [Active, Unrestricted]
Pennsylvania MD040870E [Retired]

Military Service

United States Navy (Active Combat Service Veteran)
Maintained surface search radar system aboard USS Ticonderoga during Naval gunfire support operations off the coast of Vietnam.
Awarded the Vietnam Service Combat Medal, the Armed Forces Expeditionary Medal, and the National Defense Service Medal.

Media Recognition

America's Top Surgeons Award, 2009 and 2010
America's Top Plastic Surgeons Award, 2008
America's Top Surgeons Award, 2006
America's Top Physicians Award, 2005
America's Top Physicians Award, 2004
Top Doctor, Plastic Surgery, Philadelphia Surgeons, Main Line Today Magazine, 2003

References upon request.
Peer-reviewed Publications – see NCBI Pubmed.

New College of Florida 2018 Class Photo
Mind-Body Medicine and Stress Management Course

