

**CURRICULUM VITAE**

**Sapan S. Desai, MD, PhD, MBA, FACS**

**RPVI, RVT, CLSSMBB, CPHQ**

**(Updated 4-21-19)**

**Address:**

759 W Meryls Ct  
Palatine, IL 60074

**Telephone:**

224-828-3042 (cell)  
847-618-3800 (work)

**Birthday:**

April 6, 1979

**Undergraduate Education**

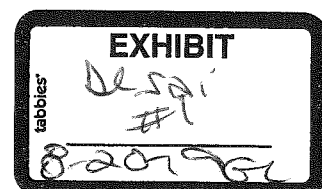
High School	Adlai E. Stevenson High School, Lincolnshire, IL	08/1993 06/1997	N/A
College	University of Illinois at Chicago Chicago, IL	08/1997 07/1998	B.S. (Biology)

**Medical Education**

Graduate School	University of Illinois at Chicago, College of Medicine Chicago, IL	08/1998- 05/2003	Ph.D. (Anatomy & Cell Biology)
Graduate School	University of Illinois at Chicago, College of Medicine, Chicago, IL	08/1998- 05/2006	M.D.

**Post-Graduate Medical Education**

Post-Graduate Training	Duke University Department of Surgery Durham, NC	06/2006- 09/2011	General Surgery Residency
Graduate School	Western Governors University, Salt Lake City, UT	03/2012- 05/2012	M.B.A. (Healthcare Management)



Post-Graduate Training	University of Texas at Houston Department of Cardiothoracic and Vascular Surgery Houston, TX	07/2012- 06/2014	Vascular Surgery Fellowship
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**Licensure**

Illinois	#036134272	7/31/20
Illinois DEA	#336095519	7/31/20

**Certification**

Registered Physician Vascular Interpretation ARDMS #186757	February 2015
Registered Vascular Technologist ARDMS #186757	June 2015
TeamSTEPPS 2.0 Master Trainer Agency for Healthcare Research and Quality	July 2015
Certified Lean Six Sigma Green Belt Memorial Medical Center	December 2015
Certified Lean Six Sigma Black Belt Memorial Medical Center	May 2016
Certified Lean Six Sigma Master Black Belt Management and Strategy Institute, certificate #4642137	July 2016
Certified Professional in Healthcare Quality National Association for Healthcare Quality	August 2016
Fellow of the American College of Surgeons	October 2017

**Professional Appointments**

Director of Performance Improvement  
Northwest Community Hospital  
Arlington Heights, Illinois  
May 2017 – Present

Medical Director of Surgical Quality  
Northwest Community Hospital  
Arlington Heights, Illinois  
June 2016 – Present

Attending Surgeon and Staff  
Northwest Community Hospital  
Arlington Heights, Illinois  
June 2016 – Present

Director of Research  
Northwest Community Hospital  
Arlington Heights, Illinois  
June 2016 – Present

Director of Continuing Medical Education  
Northwest Community Hospital  
Arlington Heights, Illinois  
June 2016 – Present

Assistant Professor  
SIU School of Medicine  
Springfield, Illinois  
July 2014 – May 2016

Director of the Quality Alliance and Predictive Analysis  
Memorial Medical Center  
Springfield, Illinois  
July 2014 – May 2016

Medical Director of the Surgical Skills Center  
SIU School of Medicine  
Springfield, Illinois  
April 2015 – May 2016

Vice Chair of Research  
SIU School of Medicine  
Springfield, Illinois  
April 2015 – May 2016

Adjunct Assistant Professor  
Duke University  
Durham, North Carolina  
July 2012 – June 2014

Assistant Professor of Surgery  
Duke University  
Durham, North Carolina  
October 2011 – June 2012

Attending Surgeon and Staff  
Davie County Hospital  
Mocksville, North Carolina  
December 2010 – June 2012

Intern/Resident/Chief Resident – General Surgery  
Duke University  
Durham, North Carolina  
July 2006 – September 2011

Research Assistant  
Hektoen Institute, Cook County Hospital  
Chicago, Illinois  
May 1996 – August 1998

## **Work History**

Attending Surgeon and Staff  
Northwest Community Hospital  
Arlington Heights, Illinois  
June 2016 – Present

Assistant Professor  
SIU Healthcare  
Springfield, Illinois  
July 2014 – May 2016

Assistant Professor of Surgery  
Duke University  
Durham, North Carolina  
October 2011 – June 2014

CEO and President  
Surgisphere Corporation  
Chicago, Illinois  
January 2007 – Present

Chief Information Officer  
Apex Testing, LLC  
Chicago, Illinois  
December 2007 – December 2012

CEO and President  
Apex Testing, LLC  
Chicago, Illinois  
January 1998 – December 2007

CEO and President  
Computer Consulting Service  
Chicago, Illinois  
January 1993 – August 1998

## **Organizations and Participation: (Offices held, committee assignments, etc)**

Northwest Community Hospital, Arlington Heights, IL (all 6/2016-Present)

- Quality Committee of the Board
- Quality and Safety Management Council
- Quality and Safety Council
- Surgical Executive Committee
- Medical Staff Quality Committee
- Performance Improvement Council
- Surgical Safety and Quality Committee
- Surgery Peer Review Committee
- Anesthesia Peer Review Committee
- Obstetrics and Gynecology Peer Review Committee
- Radiology Peer Review Committee

- Emergency Medicine Peer Review Committee
- Orthopedic Surgery Peer Review Committee
- Cardiology Peer Review Committee
- Cardiac and Vascular Peer Review Committee
- Grievance Committee
- Value Analysis Team

American College of Healthcare Executives, Chicago, IL

- ACHE Chapter Committee Member (10/2014 to 4/2019)
- ACHE Program Committee (10/2014 to 4/2019)
- ACHE Products and Services National Committee (5/2016 to 4/2019)

Annals of Vascular Surgery

- Social Media Editor (2019 to present)
- Associate Editor (2016 to present)
- Editorial Board (2014-2016)

Society for Simulation in Healthcare

- Vice Chair (2016 to 2018)

Institute for Healthcare Improvement

- Leadership Alliance (2017 to 2019)

SIU School of Medicine, Springfield, IL

- Year 3 Assessment Subcommittee Member (8/2014 to 5/2016)
- Senior Clinical Competency Committee (CCX) (7/2014 to 5/2016)
- Xtra Innovative Investigators (7/2014 to 5/2016)
- Surgical Education and Performance Group (7/2014 to 5/2016)
- SIU Outcomes and Analytical Research, Co-Chair (1/2015 to 5/2016)
- Research Strategic Planning Group (7/2015 to 5/2016)
- Clinical Competency Examination Committee (7/2015 to 6/2016)
- Grant Review Committee (7/2015 to 6/2016)
- 3D Printing Core Laboratory, Director (12/2015 to 5/2016)

Memorial Medical Center, Springfield, IL

- Midwest Healthcare Quality Alliance (Board of Directors)
- Quality Alliance, Patient Safety Organization (Board of Directors)

University of Texas at Houston, Houston, TX

- Committee Member: Department of Cardiothoracic and Vascular Surgery Technology Committee (2012-2014)

Texas Medical Center Library, Houston, TX

- Committee Member: Library Architecture and Technology Committee (2012-2014)
- Society for Vascular Surgery
- Committee Member: VS3 (Vascular Surgery Simulation) Planning Committee (2012-2014)
- Committee Member: Vascular Surgery Learning Management System (2012-2013)
- Committee Member: Vascular Education and Self-Assessment Program (2011-Present)
- Education and Technology Consultant

Association of Program Directors in Vascular Surgery

- Committee Member: Education Committee (2012-2013)
- Committee Member: Vascular Surgery Summit Program Committee (2012-2013)

South Asian Association for Vascular Surgery

- Committee Member: Communications Committee (2014)
- Committee Member: Membership Committee (2013-2014)
- Committee Member: Nominating Committee (2013-2014)

Texas Medical Association

- TMA-RFS Representative, Committee on Continuing Education (2013-2014)

Harris County Medical Association

- Alternate Delegate to the Texas Medical Association House of Delegates (2013-2014)

South Asian-American Vascular Society (SAAVS)

- Executive Board (2013-2016)
- Co-Chair, Young Surgeons Committee (2013-2014)
- Communications Committee (2014)

Association for Academic Surgery (AAS)

- Finance Task Force (2015-2018)

American Venous Forum

- Newsletter Committee (2015-2017)

Vascular Quality Initiative

- MAVSG Venous Quality Committee, Chair (October 2015-2016)
- Vascular Quality Initiative CEA Registry Committee (10/2015 to 2016)

Society for Clinical Vascular Surgery (SCVS)

- Active Member (2017 to present)
- Social Media Representative (1/2016 to 2017)

Society for Vascular Surgery

- TEVAR Practice Guidelines Committee

Society for Simulation in Healthcare

- Co-Chair, Healthcare Systems Modeling and Simulation Affinity Group
- Program Committee

Sabiston Surgical Society, Durham, NC

National Association for Healthcare Quality

American College of Phlebology

North Carolina Medical Association

Council of Science Editors

American College of Surgeons

Southern Medical Association

American Medical Association

Chicago Medical Society

Illinois State Medical Society

Society for Neuroscience

Association for Research in Otolaryngology

Illinois Academy of Science

American Association of Anatomy  
 Sigma Xi  
 University of Illinois at Chicago, College of Medicine  
 - Vice President, Class of 2003

**Editorial Boards**

- Journal of Surgical Radiology (2010-2014)
  - o Managing Editor
  - o Executive Editor
  - o Editor-in-Chief
- TransScience (June 2014–2018)
  - o Co-Editor-in-Chief
- Progressive Science (2014–2018)
  - o Co-Editor-in-Chief
- Journal of the American Venous Forum (2015-2018)
  - o Executive Editor
- Annals of Vascular Surgery (2014-present)
  - o Editorial Board (2014-2016)
  - o Associate Editor (2016-present)
- British Medical Journal (2016-present)
  - o Statistical Reviewer / Editor

**University, Regional and National Awards**

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|-----------|---|
| 1997      | <b>Westinghouse Science Talent Search Semifinalist</b>  |
| 2002      | Provost’s Award for Graduate Research   |
| 2002      | Association for Research in Otolaryngology Distinguished Travel Award   |
| 2002-2004 | <b>NIH National Research Service Award</b> , Predoctoral Fellowship, F31  |
| 2004      | UIC College of Medicine Service Award   |
| 2004-2006 | NIH MD/Ph.D. National Research Service Award, F30   |
| 2010      | American College of Phlebology Travel Award   |
| 2011      | Society for Clinical Vascular Surgery Incoming Fellows Award  |
| 2012      | Society for Clinical Vascular Surgery Incoming Fellows Award  |
| 2012      | Commencement Speaker, Western Governor’s University   |
| 2013      | Peripheral Vascular Surgical Society Fellows Award  |
| 2013      | Society for Clinical Vascular Surgery Fellows Award   |
| 2013      | Mastering Cardiac and Vascular Complications 2013 Fellowship Grant  |
| 2013      | University of Illinois President’s Circle / \$1,000,000 Donation  |
| 2014      | University of Illinois at Chicago White Coat Ceremony Speaker   |
| 2014      | Society for Clinical Vascular Surgery Fellows Award   |
| 2014      | Best Poster Award, Society for Vascular Surgery Poster Competition  |
| 2014      | Best Poster Award (#2), Society for Vascular Surgery Poster Competition   |
| 2014      | College of Medicine William W. Root Society Award   |
| 2015      | <b>Grand Prize in Quality, International Hospital Federation</b> 39 <sup>th</sup> World Hospital Congress                                       |
| 2016      | <b>American Hospital Association-McKesson Quest for Quality Prize</b>   |
| 2016      | <b>Nominated for AHA Best Hospital</b>  |
| 2017      | <b>Honorable Mention (2<sup>nd</sup> place), Dr. Kwang Tae Kim Grand Award</b> , 2017 International Hospital Federation World Hospital Congress |
| 2017      | Best Oral Presentation, Institute for Healthcare Improvement Annual Meeting   |

**Trademarks**

1. Desai, S. Surgisphere™.
2. Desai, S. Clinical Review Series™.
3. Desai, S. Journal of Surgical Radiology™.
4. Desai, S. A-FAST™.
5. Desai, S., and E. Moretti. Bart From Iowa™.
6. Desai, S. Neurodynamics Flow™.
7. Desai, S., and K.M. Lee. Intelligent scalable language engine (ISLE™).
8. Desai, S., and K.M. Lee. Modular interface for testing (MINT™).
9. Desai, S., and K.M. Lee. Referencing algorithm for relevant entries (RARE™).
10. Desai, S., and K.M. Lee. Automated interface to form ordered linear documents (AI-FOLD™).
11. Desai, S. Qualified clinical data registry (Quality is our bottom line®).

**Inventions/Trade Secrets**

1. Desai, S., and K.M. Lee. Intelligent scalable language engine (ISLE™). 1999.
2. Desai, S., and K.M. Lee. Modular interface for testing (MINT™). 2000.
3. Desai, S., and K.M. Lee. Referencing algorithm for relevant entries (RARE™). 2001.
4. Desai, S., and K.M. Lee. Automated interface to form ordered linear documents (AI-FOLD™). 2001.
5. Desai, S., and K.M. Lee. Longitudinal data cross-referencing algorithm. 2001.
6. Desai, S. Chemical separation of fixed tissue. 2002.
7. Desai, S., and N. Desai. Interactive Diabetes Insulin Dose Calculator. 2008.
8. Desai, S. Unified login system for digital access platforms. 2011.
9. Desai, S. Automated drug update system. 2012.
10. Desai, S. Neurodynamics Flow. 2012.
11. Desai, S. Quartz Electronic Medical Record and Data Analytics Platform. 2012
12. Desai, S. Differential valve for computer-controlled rocket propulsion. 2012.
13. Desai, S. Surgical instrument: "Desai Hemostatic Finger" to achieve pinpoint hemostasis. 2013.
14. Desai, S. Surgical instrument: "Desai Sternal Retractor" to keep sternum apart after median sternotomy. 2013.
15. Desai, S. Quartz Data Analytics and Quality Reporting Platform. 2015.
16. Desai, S. Qualified Clinical Data Registry (QCDR) with CMS approval (2017). Deployed using the Quartz platform.
17. Desai, S. Artificial intelligence algorithms for automatic data analysis. 2017.



## **Areas of Research Interests (Basic and Applied)**

### **1996-1997 Cook Country Hospital, Hektoen Institute for Medical Research**

Advisor: Sandra Garber, Ph.D.

Determined the role of TGF- $\beta$ 1 and various ACE-inhibitors in the development of fibrosis following experimentally-induced renal damage in rats. Two abstracts and one paper.

### **1997-1998 UIC Department of Molecular Biology**

Advisor: Peter Okkema, Ph.D.

Completed an independent research project to elucidate the control of gene expression in *C. elegans* pharyngeal muscles as a model to better understand the development of cardiac muscle in mammals.

### **1998-2003 UIC Department of Anatomy and Cell Biology**

Advisor: Anna Lysakowski, Ph.D.

Doctoral thesis. Completed a comparative morphology study of the rodent vestibular system in which the anatomy, physiology, and neurochemistry of the vestibular system was elucidated and used to create a functional model of vestibular disease. Procedures included over 400 small animal surgeries, stereotaxic surgery, microdissections of inner ear sensory organs, and numerous molecular biology and cell biology protocols. Published two papers in the *Journal of Neurophysiology* with artwork appearing on cover. Two additional papers in preparation. Patent application submitted for a method of chemically separating epithelial layers in fixed tissue. Supported by NIH F30 and F31 National Research Service Awards.

### **2005-2006 UIC Department of Cardiothoracic Surgery**

Advisor: Malek Massad, M.D.

Completed an independent review and meta-analysis on topics in cardiothoracic surgery. One paper published in a peer-reviewed journal. Supported by NIH F31 National Research Service Award.

### **2007 Duke University Department of Surgery**

Advisor: Andrew Lodge, M.D.

Completed a chapter on tricuspid and pulmonary valve surgery.

### **2009-2012 Duke University Department of Surgery**

Advisors: Cynthia Shortell, M.D., and Ranjan Sudan, M.D.

Completing independent outcomes research on vascular trauma and various educational projects. Published *Clinical Review of Vascular Surgery* and Q&A textbook; created the *Journal of Surgical Radiology*, a peer-reviewed international publication with a readership of > 50,000 subscribers.

2010-2012 **Duke University Department of Surgery**

Advisors: Cynthia Shortell, M.D. and Eric Mowatt-Larssen, M.D.

Completing independent research projects in vein physiology, clinical treatment of venous disorders, and developing theoretical models of venous disease. Authored and edited the Clinical Review of Phlebology and Venous Ultrasound.

2009-2012 **Duke University Department of Surgery**

Advisor: Danny Jacobs, M.D., M.P.H.

Completed a full length, interactive textbook on surgery.

2011-2012 **Duke University Department of Surgery**

Advisor: Danny Jacobs, M.D., M.P.H.

Master of surgery project to determine the elements that produce master surgeons.

2012-2014 **University of Texas at Houston / Memorial Hermann Hospital**

Advisor: Kristofer Charlton-Ouw, M.D., Ali Azizzadeh, M.D., and Hazim M.D.

Completing a series of articles on advances in vascular surgery.

**Co-Investigator:** "A comparison of patency rates in brachiocephalic arteriovenous fistula patients versus upper arm arteriovenous graft patients at UTHCVS from 2006-2009."

**Co-Investigator:** "University of Texas Health Science Center at Houston Department of Cardiothoracic and Vascular Surgery retrospective chart review of carotid endarterectomy and stenting data."

**Co-Investigator:** "Characterization of Extremity Trauma Characteristics and Management from 1999 to 2013 at a Level I Institution."

**Co-Investigator:** "Characterization of Injury Patterns in Children Injured Riding All-Terrain Vehicles."

2014-2017 **Southern Illinois University Department of Vascular Surgery**

**Investigator:** "BEST-CLI Trial: Randomized, Multicenter Controlled Trial to Compare Best Endovascular Versus Best Surgical Therapy in Patients with Critical Limb Ischemia"

**Co-Investigator:** "ANCHOR: Aneurysm Treatment Using the HeliFX Aortic Securement System Global Registry"

**Co-Investigator:** "D-Dimer DVT/PE Exclusionary Sample Collection Project"

**Co-Investigator:** "A Non-Interventional Safety Study Providing 12 Months Follow-Up from First Exposure to HP802-247 in Subjects With Venous Leg Ulcer"

**Co-Investigator:** "A Phase 3 Randomized, Double Blind, Vehicle Controlled Study Investigating the Safety and Efficacy of HP802-247 in the Treatment of Venous Leg Ulcers >12 sq cm to less than or equal to 36 sq cm"

**Co-Investigator:** "MarrowStim PAD Kit for the Treatment of Critical Limb Ischemia (CLI) in Subjects with Severe Peripheral Arterial Disease (PAD)"

**Co-Investigator:** "RACE: Ruptured Aorta Centers of Excellence Initiative"

2017-Current Northwest Community Hospital

**Investigator:** "Management of Neurogenic Thoracic Outlet Syndrome, Randomized, Controlled Trial"

**Investigator:** "Advanced Endovascular Management of Critical Limb Ischemia, Randomized, Controlled Trial"

**Investigator:** "Investigator-Modified Fenestrated and Branched Endografts for Aneurysm Treatment; FDA IDE Planned Submission"

**External Support (Past and Present) - Gifts, Grants, and Contracts:**

<u>PI</u>	<u>%Effort</u>	<u>Purpose</u>	<u>Approximate Amount</u>	<u>Duration</u>
Desai, SS.	100%	NIH F30 National Research Service Award	\$100,000	1999-2001
Desai, SS.	100%	NIH F31 National Research Service Award	\$100,000	2001-2004
Desai, SS.	10%	Gore Digital Partnership (Journal of Surgical Radiology)	\$48,000	2011-2012
Desai, SS.	5%	Vascular Education and Self-Assessment Program (Society for Vascular Surgery)	\$25,000	2011-2012

Desai, SS.	5%	Vascular Education and Self-Assessment Program (Society for Vascular Surgery)	\$5,500	2012-2013
Desai, SS.	5%	Vascular Education and Self-Assessment Program (Society for Vascular Surgery)	\$35,000	2012-2013
Desai, SS.	2%	Proliant Digital Partnership (Journal of Surgical Radiology)	\$20,000	2011-2012
Desai, SS.	2%	Vascular Surgery Recertification Course (Society for Vascular Surgery)	\$14,000	2011
Desai, SS.	1%	Vascular Annual Meeting Learning Management System (Society for Vascular Surgery)	\$14,000	2012
Desai, SS.	10%	Gore Digital Partnership (Journal of Surgical Radiology)	\$15,000	2012-2013
Desai, SS.	5%	Medtronic Partnership (Clinical Review / Surgisphere)	\$25,000	2013
Desai, SS.	5%	Vascular Education and Self-Assessment Program (Society for Vascular Surgery)	\$30,000	2013-2014

Desai, SS.	5%	Vascular Education and Self-Assessment Program (Society for Vascular Surgery)	\$25,000	2014
Desai, SS.	5%	Vascular Education and Self-Assessment Program (Society for Vascular Surgery)	\$10,000	2014
Desai, SS	2%	Endovascular vs. Surgical Therapy in Patients with Critical Limb Ischemia	\$36,400	2014
Desai, SS	10%	Southern Illinois University Research Grant	\$75,000	2014-2016
Desai, SS	2%	Six Cephalus Specimens for Otolaryngology Surgical Skills Lab	\$ 1,000	2015-2016
Desai, SS	1%	Six Cephalus Specimens for Plastics Surgery Skills Lab	\$ 1,000	2015-2016
Desai, SS	2%	Evaluation of 4/Heparin Antibodies in Patients with Gore Hybrid	\$38,573	2015-2016
Desai, SS	2%	2015-2016 Otolaryngology Surgical Skills Labs	\$2,000.00	2015-2016
Desai, SS	2%	2016 Orthopaedics Fluoroscopic Knowledge and Skills/Hip Fracture Lab	\$3,308.00	2016

Desai, SS	2%	Surgical Skills Lab- Hip Fractures Course	\$3,308.00	2015- 2016
Desai, SS	2%	American Venous Forum	\$17,500	2016
Desai, SS	2%	American Venous Forum	\$7,225	2016
Desai, SS	4%	Society for Vascular Surgery	\$15,000	2017
Desai, SS	2%	American Venous Forum	\$10,000	2017
Desai, SS	2%	Acelity Corp	\$7,500	2017

**Presentations at Regional, National, and International Scientific Meetings**

1. "Enalapril's reduction of transforming growth factor B1 and renal fibrosis after bromoethylamine-induced kidney damage in rats." **SS Desai**. National Conf on Undergraduate Research. Salisbury, MD. April 1998.
2. "The extent of the striola in the utricular macula has been defined in various rodent species using calretinin immunocytochemistry." C. Zeh, **SS Desai**, and A. Lysakowski. 22nd Annual Midwinter Meeting of the Association for Research in Otolaryngology in St. Petersburg Beach, FL. February 1999.
3. "A comparative quantitative analysis of the striola in rodent otolith organs." **SS Desai**, C. Zeh, and A. Lysakowski. 30th Annual Meeting of the Society for Neuroscience in New Orleans, LA. October 2000.
4. "Hair cell and afferent counts in rodent otolith organs." **SS Desai** and A. Lysakowski. 25th Annual Meeting of the Association for Research in Otolaryngology in St. Petersburg Beach, FL. February 2002.
5. "Hair cell counts in rodent cristae ampullares." **SS Desai**, H. Ali, and A. Lysakowski. 26th Annual Midwinter Meeting of the Association for Research in Otolaryngology in Daytona, FL. February 2003.

6. "NOS localized in chinchilla vestibular afferents." **SS Desai**, H. Ali, and A. Lysakowski. 33rd Annual Meeting of the Society for Neuroscience in New Orleans, LA. October 2003. Platform presentation.
7. "Comparative cytoarchitectural organization of vertebrate crista ampullaris." H. Ali, **SS Desai**, and A. Lysakowski. 27th Annual Midwinter Meeting of the Association for Research in Otolaryngology in Daytona, FL. February 2004.
8. "NOS immunochemical staining in calyces in chinchilla vestibular endorgans." **SS Desai**, H. Ali, and A. Lysakowski. 27th Meeting of the Assoc for Research in Otolaryngology. Daytona, FL. February 2004.
9. "A paradigm shift in modern surgical education." **SS Desai**. Society of Academic and Research Surgery at the Royal Free Hospital, London. January 2010. Invited presentation.
10. "The impact of comorbid conditions and insurance on trauma-related mortality." **SS Desai**, M.L. Shapiro. Competition on Trauma, American College of Surgeons, Myrtle Beach, SC. July 2010.
11. "Staging, diagnosis, and management of extrathoracic lung herniation from blunt trauma." D. Lo, **SS Desai**, M.L. Shapiro. Competition on Trauma, American College of Surgeons, Myrtle Beach, SC. July 2010.
12. "Ileocolic pseudoaneurysms: a rare complication of Crohn's disease." **SS Desai**, C.K. Shortell, J. Thacker. 2010 Advances in Inflammatory Bowel Diseases in Orlando, FL. December 2010.
13. "Can duration of medical school education be shortened without sacrificing performance to ameliorate physician shortage and student debt?" R. Sudan, **SS Desai**, C.O. Grochowski. 6th Annual Academic Surgical Congress at Huntington Beach, CA. January 2011.
14. "Predicting the outcome after vascular trauma using the national trauma data bank." **SS Desai**, C.K. Shortell. Society for Clinical Vascular Surgery, Orlando, FL. March 2011.
15. "Combating fraud in medical research: an overview of the standards utilized by the journal of surgical radiology." **SS Desai**, C. Fisher, C. Shortell. Council of Science Editors, Baltimore, MD. May 2011.
16. "Robot-assisted laparoscopic biliopancreatic diversion with duodenal switch." **SS Desai**, R. Sudan. Society for Surgery of the Alimentary Tract, Chicago, IL. May 2011.
17. "Simultaneous gastric bypass and paraesophageal hernia repair." **SS Desai**, R. Sudan. American Society for Metabolic and Bariatric Surgery, Orlando, FL. June 2011.
18. "Conversion of laparoscopic adjustable gastric band to robot-assisted laparoscopic biliopancreatic diversion with duodenal switch." **SS Desai**, R. Sudan. American Society for Metabolic and Bariatric Surgery, Orlando, FL. June 2011.

19. "A comparison of minimally-invasive and open biliopancreatic diversion with duodenal switch for morbid obesity." R. Sudan, **SS Desai**. American Society for Metabolic and Bariatric Surgery, Orlando, FL. June 2011.
20. "Iliocaval Venous Reflux." **SS Desai**, C.K. Shortell, E. Mowatt-Larssen. American College of Phlebology, Los Angeles, CA. November 2011.
21. "Training Residents in Surgery." **SS Desai**, R. Sudan. Association for Surgical Education, San Diego, CA. April 2012.
22. "Endovascular Repair of Ruptured Abdominal Aortic Aneurysm in a Patient with a Horseshoe Kidney." **SS Desai**, K. Charlton-Ouw, and A. Azizzadeh. VIVA 12, Las Vegas, NV. October 2012.
23. "The Future of Medical Education." **SS Desai**. National Medical Thought Leaders Assembly, Napa Valley, CA. October 2012.
24. "Endovascular Repair of a Ruptured Subclavian Artery Aneurysm in a Patient with Ehlers-Danlos Syndrome Using a Sandwich Technique." **SS Desai**, M. Codreanu, K.
25. Charlton-Ouw, H.J. Safi, and A. Azizzadeh. Southern Association for Vascular Surgery, Bahamas. January 2013.
26. "The Business of Medicine." **SS Desai**. Business of Medicine Elective, Baylor College of Medicine and the University of Texas Medical School at Houston, Houston, TX. February 2013.
27. "Identifying Patients with Extent IV Thoracoabdominal Aortic Aneurysm at High Risk for Open Repair." **Desai SS**, Dua A, Charlton-Ouw K, Sandhu HK, Miller CC, Azizzadeh A, Estrera AL, and Safi HJ. Society for Clinical Vascular Surgery, Miami, FL. March 2013.
28. "Outcomes Following Repair of Peripheral Arterial Trauma." **SS Desai**, C.S. Parham, K.M. Charlton-Ouw, S.M. Coogan, A.L. Estrera, H.J. Safi, and A. Azizzadeh. Society for Clinical Vascular Surgery, Miami, FL. March 2013.
29. "Challenging Case: Interposition Graft for Common Iliac Artery Trauma." **SS Desai**, A. Dua, K.M. Charlton-Ouw, and A. Azizzadeh. Society for Clinical Vascular Surgery, Miami, FL. March 2013.
30. "The Business of Medicine." **SS Desai**. American Physician Scientists Association Post-Graduate Opportunities Panel, Chicago, IL. April 2013.
31. "The Diagnosis and Management of Infectious Mononucleosis-Like Syndrome Presenting as Toxoplasmosis Infection." PJ Desai, A Dua, and **SS Desai**. Society of Hospital Medicine's Annual Meeting, National Harbor, MD. May 2013.
32. "Comparison of Military and Civilian Popliteal Artery Trauma Outcomes." A Dua, B Patel, **SS Desai**, JB Holcomb, CE Wade, S Coogan, and CJ Fox. Association of Surgeons of Great Britain and Ireland, Glasgow, Scotland. May 2013.



33. "The Historical Tradition of Medicine." **SS Desai**. Key note speaker, University of Illinois at Chicago College of Medicine White Coat Ceremony, Chicago, IL. August 2013.
34. "Improvement in ABSITE Performance with a Multidisciplinary Surgeon-Directed Integrated Learning Platform." A Dua, R Sudan, **Desai SS**. American College of Surgeons 2013 Clinical Congress, Washington D.C. October 2013.
35. "The Business of Medicine." **SS Desai**. Business of Medicine Elective, Baylor College of Medicine and the University of Texas Medical School at Houston, Houston, TX. January 2014.
36. "Impact of an Online Vascular Surgery Review Course on Vascular Surgery Written Board Performance." Dua A, **Desai SS**. 9th Annual Academic Surgical Congress, San Diego, CA, February, 2014.
37. "Incorporation of Lung Hernia into the Chest Wall Injury Scale." Dua A, Shapiro M, **Desai SS**. 9th Annual Academic Surgical Congress, San Diego, CA, February, 2014.
38. "Region, Hospital Size, and Case Volume Influence Mortality from AAA Repair." **Desai SS**, Dua A. Society for Vascular Surgery (SVS). Boston, MA. June 2014.
39. "National Trends in Surgical Site Infections in Open Vascular Procedures: Has SCIP Made an Impact?" Dua A, **Desai SS**, Kuy S, Edmiston C, Lee CJ. Society for Vascular Surgery (SVS). Boston, MA. June 2014.
40. "Epidemiology of Thoracoabdominal Aortic Aneurysm Repairs in the United States from 1998 to 2011." **Desai SS**, Dua A, Eskandari MK, Lee CJ. Midwestern Society for Vascular Surgery (MVSS). Coralville, IA, September 2014.
41. "Preventable Complications Drive the Rising Costs in the Management of Patients with Critical Limb Ischemia." Dua A, **Desai SS**, Seabrook GR, Brown KR, Lewis BD, Rossi PJ, Malinowski MJ, Lee CJ. Midwestern Society for Vascular Surgery (MVSS). Coralville, IA, September 2014.
42. "Observation May Be Inadequate for Injured Patients with Single Tibial Vessel Run-off." Dua A, **Desai SS**, Johnston S, Chinapuvvula N, Dubose J, Azizzadeh A, Burgess A, Wade CE, Fox CJ, Holcomb JB. The American Association for the Surgery Trauma (AAST). Philadelphia, PA. September 2014.
43. "Epidemiology of Abdominal Aortic Aneurysmal Disease from 2000-2010. Oral Presentation and Panel Discussant for the OVER trial." **Desai SS**. American College of Surgeons (ACS). San Francisco, CA. October 2014.
44. "The Role for Radiological Evaluation of Geniculate Flow in Trauma Patients." **Desai SS**. Radiological Society of North America (RSNA). Chicago, IL. December 2014.
45. "Impact of Surgical Specialty and Operator Experience Upon Outcomes Following Carotid Endarterectomy." Caldwell K, Koch S, Khan I, Pan J, Hood DB, Hodgson K, **Desai SS**. Society for Clinical Vascular Surgery. March 31, 2015, Miami, FL.

46. "Impact of Physician Specialty Upon Outcomes Following TEVAR." Andre J, Nolte N, Pan J, Hood DB, Hodgson K, **Desai SS**. Society for Clinical Vascular Surgery. March 30, 2015, Miami, FL.
47. "Impact of Physician Specialty and Operator Experience Upon Outcomes Following EVAR." Dua A, Safarik J, Satani R, Pan J, Hood DB, Hodgson K, **Desai SS**. Society for Clinical Vascular Surgery. March 30, 2015, Miami, FL.
48. "The Impact of Geniculate Artery Collateral Circulation on Lower Limb Salvage Rates in Injured Patients." Dua A, **Desai SS**, Johnston S, Chinapuvvula N, Wade C, Fox C, Holcomb J, Coogan S. Society for Clinical Vascular Surgery. March 30, 2015, Miami, FL.
49. "Celiac Artery Decompression for Median Arcuate Ligament Syndrome: A US National Inpatient Sample Study." Rezig A, **Desai SS**, Afifi R, Ouw K, Miller C, Estrera A, Safi H, Azizzadeh A. Society for Clinical Vascular Surgery. April 2, 2015, Miami, FL.
50. "Progressive Shortfall in Open Aneurysm Experience for Vascular Surgery Trainees: Impact of EVAR, TEVAR, and BrEVAR." Dua A, Eidt J, Lee J, Mitchell E, Upchurch G, **Desai SS**. Association of Program Directors in Vascular Surgery. April 17, 2015, Chicago, IL.
51. "Open AAA, EVAR, REVAR, BrEVAR: Vascular Surgery in 2020". **Desai SS**, Dua A, Upchurch G. Midwestern Vascular Surgery Society, September 10-12, 2015, Chicago, IL.
52. "Delay in Transfer Adversely Impacts Mortality and Cost of Care in Patients with Ruptured AAA" **Desai SS**, Dua, Koch S, Lee CJ, Pan J, Hood D, Hodgson K. Midwestern Vascular Surgery Society, September 10-12, 2015, Chicago, IL.
53. "National Incidence and Ten Year Trends in Deep Vein Thrombosis Following Total Knee and Total Hip Replacement." Dua A, **Desai SS**, Heller J. Eastern Vascular Society Meeting, September 24-26, 2015, Baltimore, MD.
54. "Short-Term Quality of Care Outcomes of TDC, AVF, AVG, and Early Cannulation Dialysis Access." **Desai SS**, Dua A, Roberts T, Wilkerson J, Hodgson K. 2015 Clinical Congress, October 8, 2015, Chicago, IL.
55. "Predictors of Poor Outcome After Carotid Intervention" **Desai SS**, Upchurch G, Pan J, Hood D, Hodgson K. Southern Association for Vascular Surgery 2016 Annual Meeting, January 21, 2016, Cancun, Mexico.
56. "Carotid Artery Stenting Outcomes are Significantly Worse Compared to Endarterectomy at One Year" **Desai SS**, Roberts T, Wilkerson J, Pan J, Hood DB, Hodgson K. Society Clinical Vascular Surgery Annual Symposium, March 12-16, 2016, Las Vegas, Nevada.
57. "Long-Term Improvement in Outcomes Following Carotid Endarterectomy is Associated with Statin Use" **Desai SS**, Koch S, Pan J, Hood DB, Hodgson K. Society Clinical Vascular Surgery Annual Symposium, March 12-16, 2016, Las Vega, Nevada.

58. "Predictors of Poor Outcome After Carotid Intervention" Romanelli, M, **Desai SS**, Upchurch G, Pan J, Hood D, Hodgson K. Southern Illinois University Research Competition. First Place Award. March 2016
59. "Predictors of Poor Outcome After Carotid Intervention" Dua, A, Romanelli, M, **Desai SS**, Upchurch G, Pan J, Hood D, Hodgson K. South Asian American Vascular Society. First Place Award. May 2016
60. "Leading a Paradigm Shift in Quality of Care and Service Delivery Through Live Simulation, Team-Training, and Lean Six Sigma" **Desai SS**. International Hospital Federation Webinar. June 2016.
61. "Improving Outcomes for Neurogenic Thoracic Outlet Syndrome Decompression" Desai SS, Dua A, Hood D, Hodgson K. Midwestern Vascular Surgical Society. September 2016.
62. "Leading a Paradigm Shift in Quality of Care and Service Delivery Through Live Simulation, Team-Training, and Lean Six Sigma" **Desai SS**, Wilkerson J, Roberts T. 40<sup>th</sup> IHF World Hospital Congress, Durban, South Africa. November 2016.
63. "Management of Critically-Ill Patients Who Require Emergency Surgery." Desai SS, Cosentino J. Illinois State Capitol Building / Illinois Hospital Association Meeting. March 2017.
64. "Leading a Paradigm Shift in Quality of Care and Service Delivery Through Live Simulation, Team-Training, and Lean Six Sigma" **Desai SS**. International Hospital Federation Webinar. June 2017.
65. "Outcomes of Gracilis Muscle Flaps in the Management of Groin Complications after Arterial Bypass with Synthetic Graft" Dua A, Rao C, **Desai SS**. 41<sup>st</sup> Midwestern Vascular Society Annual Meeting. September 2017.
66. "A Paradigm Shift in Quality Improvement: Live Simulation & Lean Six Sigma." **Desai SS**. National Association of Healthcare Quality 2017 Meeting. September 2017.
67. "Achieving High Reliability Through Care Coordination for Patients Who Require Emergency Surgery." Desai SS. 2017 International Hospital Federation Meeting. November 2017. **2017 2<sup>nd</sup> Place Award / Honorable Mention for Grand Prize in Healthcare Quality.**
68. "Health Economics and Early Cannulation Grafts." Desai SS. Veith Symposium. November 2017.
69. "Achieving High Reliability Through Care Coordination for Patients Who Require Emergency Surgery." Desai SS. Institute for Healthcare Improvement, Scientific Symposium. December 2017. **Selected as best oral presentation.**
70. "Achieving High Reliability Through Care Coordination for Patients Who Require Emergency Surgery." Desai SS. Institute for Healthcare Improvement, National Forum. December 2017.

71. "Practical Application of Performance Improvement Techniques to Streamline Healthcare Delivery." Desai SS, Cosentino J. American College of Healthcare Executives Annual Meeting. March 2018.
72. "Transforming healthcare enterprises using big data and artificial intelligence." Desai SS. International Hospital Federation World Hospital Congress. Brisbane, Australia. October 2018.
73. "Competitive Advantage in CMI, HACs, and VBP Through Improved Data Analytics." Desai SS. National Association for Healthcare Quality Annual Meeting. November 2018.
74. "Better Health and Better Care at a Lower Cost in Dialysis Access." Desai SS. VEITH Symposium. November 2018.
75. "Performance Improvement Through Machine Learning to Reduce 30-Day Readmission Rates." Desai SS. Institute for Healthcare Improvement. December 2018.
76. "From Volume to Value – Achieve Competitive Advantage." Desai SS. Institute for Healthcare Improvement. December 2018.
77. "Practical Applications of Performance Improvement." Desai SS. Institute for Healthcare Improvement. December 2018.
78. "Transforming Healthcare Using AI and Big Data." Desai SS. Institute for Healthcare Improvement. December 2018.
79. "Implementation of a Machine Learning Algorithm in an Urban Hospital Setting to Reduce Vascular Surgery Readmission Rates." Desai SS. Society for Clinical Vascular Surgery. March 2019.
80. "CEO Roundtable." Desai SS. Frost and Sullivan. March 2019.
81. "Practical Applications of Big Data and Machine Learning in Healthcare." Desai SS. Greater Illinois Chapter of HIMSS. March 2019.
82. "Perioperative Surgical Home." Desai SS, Anderson T, Cosentino J. Illinois Hospital Association Quality Advocacy Showcase. April 2019.
83. "Avoiding central venous catheters: The case for early cannulation arteriovenous grafts." Desai SS. Charing Cross, London, England. April 2019.

84. "Using Machine Learning to Improve Clinical Outcomes." Desai SS. Greater Illinois Chapter of HIMSS. April 2019.
85. "Perioperative Surgical Home Financial Impact." Desai SS, Anderson T, Farooqui F. American Society for Anesthesiology National Meeting. May 2019.
86. "Execution of a Healthcare Analytics Strategy to Accelerate Care Innovation and Efficiency." Desai SS. International Hospital Federation World Hospital Congress. Muscat, Oman. November 2019.

### **Poster Presentations**

1. Dua A, **Desai SS**, Seabrook G, Brown K, Lewis B, Rossi P, Malinowski M, Edmiston C, Lee C. The Impact of SCIP Measures on National Trends on Surgical Site Infections in Open Vascular Procedures. Wisconsin Surgical Society. November 14-16, 2014, Kohler, Wisconsin.
2. Dua A, **Desai SS**, Seabrook G, Brown K, Lewis B, Rossi P, Malinowski M, Lee C. Preventable Complications Drive the Rising Costs in the Management of Patients with Critical Limb Ischemia. Wisconsin Surgical Society. November 14-16, 2014, Kohler, Wisconsin.
3. Dua A, **Desai SS**, Lee CJ. Amputation Rates Associated with Revascularization Procedure Choice and Injury Type in Popliteal Artery, Popliteal Vein and Concomitant Popliteal Artery and Vein Trauma. Poster and Abstract Presentation. American College of Surgeons (ACS). San Francisco, CA. October 2014.
4. Naddaf A, Nolte N, Khan I, Pan J, Hood DB, Hodgson K, **Desai SS**. Epidemiology and Predictors of Outcome of Postphlebotic Syndrome. Society for Clinical Vascular Surgery Annual Meeting. April 1, 2015, Miami, FL.
5. Andre J, Bly S, Pan J, Hood DB, Hodgson K, **Desai SS**. Duplex Criteria for the Diagnosis of Fat Embolism Syndrome. Society for Clinical Vascular Surgery Annual Meeting. April 1, 2015, Miami, FL.
6. Stuewe E, Koch S, Dua A, Pan J, Hood, D, Hodgson K, **Desai SS**. Outcomes of Dialysis Access for Pregnant Women with ESRD. Society for Vascular Surgery Annual Meeting. June 18, 2015, Chicago, IL.
7. Naddaf A, Pan J, Hood D, Hodgson K, **Desai SS**. 15-Year Impact of Consensus Statements and Reimbursement on Vena Cava Filter Utilization. Society for Vascular Surgery Annual Meeting. June 19, 2015, Chicago, IL.
8. Zhang T, Dua A, Pan J, Hood, D, Hodgson K, **Desai SS**. Racial Disparities in the Management of Ruptured Abdominal Aortic Aneurysms. Society for Vascular Surgery Annual Meeting. June 19, 2015, Chicago, IL.

9. **Desai SS**, Whitaker T, Wilkerson J, Roberts T, Callahan C. Improving the Success of Strategic Management Using Big Data: Case Studies in Excellence. IHF 39<sup>th</sup> World Hospital Congress. October 7, 2015, Chicago, IL. POSTER AWARD WINNER.
10. **Desai SS**, Whitaker T, Wilkerson J, Roberts T, Callahan C. Integration of Lean and six Sigma Methodologies into a Hospital Operational Management Improvement Program: Implications for Strategic Management. IHF 39<sup>th</sup> World Hospital Congress. October 7, 2015, Chicago, IL.
11. Dua A, Hood DB, Hodgson K, **Desai SS**. Factors That Predict Failure to Meet PQRS Quality Measures for Carotid Endarterectomy. Vascular Annual Meeting. June 9, 2016, National Harbor, MD.
12. **Desai SS**, Wilkerson J, Roberts T. Achieving Patient-Centered Care and Safety Through Innovation in Service Delivery. IHF 40<sup>th</sup> World Hospital Congress. November 1, 2016. Durban, South Africa.
13. **Desai SS**, Wilkerson J, Roberts T. Properly Deploying a Quality Improvement Infrastructure for Maximum Effectiveness. IHF 40<sup>th</sup> World Hospital Congress. November 1, 2016. Durban, South Africa.

#### **Panel Participation at Professional Meetings**

1. "The Future of Medical Education." Chair, Medical Educational Panel. National Medical Thought Leaders Assembly, Napa Valley, CA. October 2012.
2. "Current Vascular Surgery Surgical Skills and Simulation Training Experience." Association for Program Directors in Vascular Surgery Panel. March 2013
3. "What's New in Vascular Surgical Education and Simulation Research? How is Industry Involved?" Association for Program Directors in Vascular Surgery Panel. March 2013
4. "Ultrasound Guided Vascular Access." Association for Program Directors in Vascular Surgery VS3 Summit. March 2013.
5. "Noninvasive Vascular Lab: Examination and Imaging." Association for Program Directors in Vascular Surgery VS3 Summit. March 2013.
6. "The Business of Medicine." American Physician Scientists Association Post-Graduate Opportunities Panel, Chicago, IL. April 2013.
7. "The Future of Medical Education." Chair, Medical Educational Panel. National Medical Thought Leaders Assembly, Chicago, IL. October 2013.
8. "Quality of Care." 40<sup>th</sup> IHF World Hospital Congress, Durban, South Africa. November 2016.
9. "Dialysis Access." 2017 Veith Symposium, New York New York. November 2017.

10. "Quality in Healthcare." 2018 International Meeting for Simulation in Healthcare, Los Angeles, California. January 2018.
11. "Reducing 30-day readmission using machine learning and AI." 2018 Quality Advocacy Showcase, Illinois Hospital Association. Springfield, Illinois. April 2018.

### **Local and Community Presentations**

1. "The Future of Medical Education." **SS Desai**. Grand Rounds in Plastic Surgery at Duke University, Durham, NC. May 2012.
2. "The Future of Medical Education." **SS Desai**. Grand Rounds in Cardiovascular Surgery at the University of Texas Health Science Center, Houston, TX. August 2012.
3. "The Future of Medical Education." **SS Desai**. Grand Rounds at Texas Medical Center Library, Houston, TX. August 2012.
4. "The Future of Surgical Simulation." **SS Desai**. Grand Rounds in Cardiovascular Surgery at the University of Texas Health Science Center, Houston, TX. July 2013.
5. "DVT/PE Advances in Venous Diseases" **Desai SS**. Grand Rounds SIU Center for Family Medicine. Springfield, IL, August 20, 2014.
6. "DVT, PE, Venous & AAA Diseases" **Desai SS**. Clerkship Core Curriculum Conference. Southern Illinois University. Springfield, IL, October 13, 2014.
7. "Peripheral Vascular Disease" **Desai SS**. General Surgery Core Curriculum Conference. Southern Illinois University. Springfield, IL, November 6, 2014.
8. "Intraoperative Complications and Emergency Control Exposure" **Desai SS**. Operative Skills Conference. Southern Illinois University. Springfield, IL, January 30, 2015.
9. "DVT, PE, Venous & AAA Diseases" **Desai SS**. Clerkship Core Curriculum Conference. Southern Illinois University. Springfield, IL, February 5, 2015.
10. "An Evidence Based Approach to Mitigating Healthcare Disparities" **Desai SS**. Internal Medicine Grand Rounds. Southern Illinois University. Springfield, IL, March 17, 2015
11. "Peripheral Arterial Disease" **Desai SS**. Family Medicine Grand Rounds. Southern Illinois University. Springfield, IL, April 15, 2015.
12. "DVT, PE, Venous & AAA" **Desai SS**. Clerkship Core Conference. Southern Illinois University. Springfield, IL, April 30, 2015.
13. "DVT, PE, Venous & AAA" **Desai SS**. Clerkship Core Conference. Southern Illinois University. Springfield, IL September 30, 2015.

14. "Veins and Vanity" Desai SS. Basic Science Lecture. Southern Illinois University. Springfield, IL October 16, 2015.
15. "Comparative ERCP Outcomes of Gastroenterologists and Surgeons: Analysis of National Inpatient Sample" Cooper J, **Desai SS**, Scaife S, Gonczy C, Mellinger J. General Surgery QuickShot Session 1, Southern Illinois University, Springfield, IL, February 2, 2016.
16. "ACGME Duty Hour Reforms Do Not Impact Outcomes in General and Vascular Surgical Patients" Tehrani N, Wetzel S, John M, Sanfey H, **Desai SS**. Cross Disciplinary – Patient Safety and Quality QuickShot Session, Southern Illinois University, Springfield, IL, February 2, 2016.
17. "Impact of Physician Specialization on Inpatient Hospital Outcomes after Thyroidectomy for Cancer" McDow A, Mellinger J, Ganai S, **Desai SS**. Cross Disciplinary – Patient Safety and Quality Oral Session, Southern Illinois University, Springfield, IL, February 3, 2016.
18. "Do Trends in Surgical Resident Case Volumes Justify Additional Oncology Fellowship Training?" Khan A, **Desai SS**, Mellinger J, Ganai S. Resident Education QuickShot Session, Southern Illinois University, Springfield, IL February 4, 2016.
19. "Regional Variations of In-Patient Costs after Pancreaticoduodenectomy" Ali F, Dua A, **Desai SS**. General Surgery QuickShot Session 6, Southern Illinois University, Springfield, IL, February 4, 2016.

And 40+ others throughout Illinois.

### **Instructional Activities**

1. SVS Fellow/General Surgery Resident/Medical Student Simulation Training Program 2014 Vascular Annual Meeting June 5-7, 2014
2. Quality and Performance Improvement. American College of Healthcare Executives. May 2019.

### **Teaching Responsibilities Including Continuing Education**

1999-2003	Teaching Assistant (Anatomy) – University of Illinois at Chicago
1999-2003	Teaching Assistant (Neuroanatomy) – University of Illinois at Chicago
1999-2003	Teaching Assistant (Histology) – University of Illinois at Chicago
2011-2012	Medical Student Lecturer (Endocrinology) – Duke University
2003-Present	Medical Lecturer – Surgisphere Corporation
2013-2014	Medical Student Lecturer – University of Texas at Houston
2014-2017	Medical Student Lecturer – Southern Illinois University



## **Bibliography**

### **Journal Articles**

1. Garber SL, Mirochnik Y, **Desai SS**, Arruda JA, and Dunea G. J Am Soc Nephrol. Angiotensin-converting enzyme inhibition reduces the effect of bromoethylamine-induced papillary necrosis and renal fibrosis. *J American Society of Nephrology*, 9(6):1052-9, June 9, 1998.
2. **Desai SS**, Ali H, and Lysakowski A. Comparative morphology of the rodent vestibular periphery. II. Cristae ampullares. *J of Neurophysiology*, 93(1):267-80, 2005. Epub July 7, 2004.
3. **Desai SS**, Zeh C, and Lysakowski A. Comparative morphology of the rodent vestibular periphery. I. Saccular and utricular maculae. *Journal of Neurophysiology*, 93(1):251-66, 2005. Epub July 7, 2004.
4. **Desai SS**, Didomenico R, and Massad M. (2006). Recent advances in anti-thrombotic therapy: will sodium warfarin be a drug of the past? *Recent Patents Cardiovasc Drug Discov*, 1(3):307-16, 2006. Review.
5. **Desai SS**. Future Directions. *J Surg Rad* 1(1):52, 2010. Recurring quarterly column.
6. **Desai SS**. Future Directions. *J Surg Rad* 1(2):120, 2010. Recurring quarterly column.
7. **Desai SS**. Future Directions. *J Surg Rad* 2(1):102, 2011. Recurring quarterly column.
8. **Desai SS**. Future Directions. *J Surg Rad* 2(2):248, 2011. Recurring quarterly column.
9. **Desai SS**. Future Directions. *J Surg Rad* 2(3):360, 2011. Recurring quarterly column.
10. **Desai SS**. Future Directions. *J Surg Rad* 2(4):420, 2011. Recurring quarterly column.
11. **Desai SS**. Future Directions. *J Surg Rad* 3(1):70, 2011. Recurring quarterly column.
12. **Desai SS**. Future Directions. *J Surg Rad* 3(2):142, 2011. Recurring quarterly column.
13. Sudan R, **Desai SS**. Conversion of laparoscopic adjustable gastric band to robot-assisted laparoscopic biliopancreatic diversion with duodenal switch. *Surg Obes Relat Dis*. 2011 Jul-Aug;7(4):546-7. Epub 2011 May 23.

14. **Desai SS**, Shortell CK. Conflicts of interest for medical publishers and editors: Protecting the integrity of scientific scholarship. *J Vasc Surg.* 2011 Sep;54(3 Suppl):59S-63S.
15. **Desai SS**, and Sudan R. Emergent Robotic Surgery is Feasible. *J Robotic Surg.* 6:263-266, 2012.
16. Dua A, **Desai SS**, Fox C, and Holcomb J. Comparison of Military and Civilian Popliteal Artery Trauma Outcomes. *J Trauma.* 2012
17. **Desai SS**, and Dua A. Utility of Internal Jugular Vein Reconstruction in Modified Radical Neck Dissection. *Vascular.* 2014 Apr;22(2):81-4. doi: 10.1177/1708538113476024. Epub May 13, 2013.
18. **Desai SS**, Dua A, Shortell CK, and Thacker J. Diagnosis and Management of Ileocolic Pseudoaneurysms. *Perspectives in Vascular Surgery and Endovascular Therapy.* 012 Sep;24(3):141-5. Doi: 10.1177/1531003512472240. Epub January 17, 2013
19. Dua A, **Desai SS**, Kuy S, Patel B, Dua A, Desai P, Darlow M, Shirgavi J, Charlton-Ouw K, and Shortell C. Predicting Outcomes Using the NTDB: Optimum Management of Traumatic Blunt Carotid and Blunt Thoracic Injury. *Perspectives in Vascular Surgery and Endovascular Therapy.* 2012 Sep; 24(3):123-7. Doi: 10.1177/1531003513482492. Epub March 26, 2013.
20. **Desai SS**, Dua A, Coogan S, Khalil K. Endovascular Management of Pulmonary Artery Stenosis due to Tumor Compression. *Perspectives in Vascular Surgery and Endovascular Therapy.* 2012 Sep;24(3):146-8. Doi: 10.1177/1531003513482491. Epub March 28, 2013.
21. Dua A, **Desai SS**, Dua A, Patel B, Kuy S, and Shapiro ML. The Impact of Co-Morbid Conditions and Insurance Status on Trauma Patient Outcomes. *Trauma.* 2013.
22. Dua A, Dua A, Sharma R, Jechow SE, McMaster J, Patel B, **Desai SS**, and Kuy S. Gender-Based Differences in Cholecystitis. *American Journal of Surgery.* 2013.
23. Dua A, **Desai SS**, Shah J, Lasky R, Charlton-Ouw K, Valdes J, Azizzadeh A, Estrera A, Safi H, Coogan S. Outcome Predictors of Limb Salvage in Traumatic Popliteal Artery Injury. *Annals of Vascular Surgery.* *Ann Vasc Surg.* 2014 Jan;28(1):108-14. doi: 10.1016/j.avsg.2013.06.017.
24. Dua A, Lysakowski A, **Desai SS**. Chemical Separation of Fixed Tissue Using Thermolysin. *Journal of Histology.* vol. 2013, Article ID 643670, 5 pages, 2013.
25. **Desai SS**, Dua A, Charlton-Ouw K, Safi HJ, Azizzadeh A. Outcomes of surgical paraclavicular thoracic outlet decompression. *Annals of Vascular Surgery.* 2014 Feb;28(2):457-64. doi: 10.1016/j.avsg.2013.02.029. Epub December 28, 2013.
26. Kuy S, Rossi P, Seabrook G, Brown K, Lewis B, Rilling W, Martin G, Patel B, Dua A, McMaster J, **Desai SS**, Lee C. Endovascular Management of a Traumatic Renal-Caval arteriovenous Fistula in a Pediatric Patient. *Annals of Vascular Surgery.* 2013

27. Dua A, **Desai SS**, McMaster J, Aziz A, Dua A, Kuy S. A Review of the Role of Platelets in Vascular Trauma Patients Compared to Patients with Chronic Vascular Disease. *Vascular Disease Management*. 2013.
28. Kuy S, Dua A, Lee C, Patel B, **Desai SS**, Dua A, Szabo A, Patel P. National Trends in Utilization of IVC Filters in the United States, 2000-2009. *Journal of Vascular Surgery*. 2013.
29. Desai P, Dua A, McMaster J, Dua A, **Desai SS**, Krzowska-Firych J. The Diagnosis and Management of Infectious Mononucleosis-Like Syndrome. *J Surg Rad*, Vol 4. 2013 July:134-137.
30. McMaster J, Dua A, **Desai SS**, Kuy S, Kuy S. Short term outcomes following breast cancer surgery in pregnant women. *Gynecol Oncol*. 2013 Sep 13. pii: S0090-8258(13)01177-3. doi: 10.1016/j.ygyno.2013.09.006.
31. Kuy S, Dua A, **Desai SS**, Dua A, Patel B, Tondravi N, Seabrook GR, Brown KR, Lewis BD, Lee CJ, Kuy S, Subbarayan R, Rossi PJ. Surgical Site Infections after Lower Extremity Revascularization Procedures Involving Groin Incisions. *Ann Vasc Surg*. 2013 Nov 1. pii: S0890-5096(13)00423-8. doi: 10.1016/j.avsg.2013.08.002.
32. Kuy S, Dua A, **Desai SS**, Rossi PJ, Seabrook GR, Lewis BD, Patel B, Kuy S, Lee CJ, Subbarayan R, Brown KR. Carotid Endarterectomy National Trends Over A Decade: Does gender matter? *Ann Vasc Surg*. 2013 Dec 6. pii: S0890-5096(13)00641-9. doi: 10.1016/j.avsg.2013.08.016. [Epub ahead of print]
33. Patel B, Dua A, Koenigsberger T, **Desai SS**. Combating Fraud in Medical Research: An Overview of the Standards Utilized by the *Journal of Surgical Radiology*. *Misconduct in Scientific Publishing: Publications 2013*, 1(3), 140-145; doi:10.3390/publications1030140
34. Dua A, Patel B, Heller J, Kuy S, Dubose J, Tomasek JS, Larssen EM, **Desai SS**. Variability in the Management of Superficial Venous Thrombophlebitis Among Phlebologists and Vascular Surgeons. *Perspect Vasc Surg Endovasc Ther*. 2013 Nov 13.
35. Kuy S, Dua A, **Desai SS**, Baraniewski H, Lee CJ. Ruptured mycobacterial aneurysm of the carotid artery. *Perspect Vasc Surg Endovasc Ther*. 2013 Dec;25(3-4):53-6. doi: 10.1177/1531003513512870. Epub 2013 Dec 17.
36. Dua A, McMaster J, Desai PJ, **Desai SS**, Kuy S, Mata M, Cooper J. The Association between Blunt Cardiac Injury and Isolated Sternal Fracture. *Cardiol Res Pract*. 2014;2014:629687. doi: 10.1155/2014/629687. Epub 2014 Feb 6.
37. Dua A, Aziz A, **Desai SS**, McMaster J, Kuy S. National Trends in the Adoption of Laparoscopic Cholecystectomy over 7 years in the United States and Impact of Laparoscopic Approaches Stratified by Age. *Minim Invasive Surg*. 2014;2014:635461. doi: 10.1155/2014/635461. Epub 2014 Mar 20.
38. **Desai SS**, Dua A. Anatomy of the Vestibular System. *P Science* 1(3):e05, 2014. doi: 10.14721/pscience.2014.e05

39. Dua A, Dua A, Jechow S, **Desai SS**, Kuy S. Idiopathic Spontaneous Rupture of an Intercostal Artery. *Wisconsin Medical Journal*. 2014. Publication Status:
40. Dua A, Kuy S, Lee CJ, Upchurch GR Jr, **Desai SS**. Epidemiology of aortic aneurysm repair in the United States from 2000 to 2010. *J Vasc Surg*. 2014 Feb 20. pii: S0741-5214(14)00102-5. doi: 10.1016/j.jvs.2014.01.007.
41. Dua A, Patel B, **Desai SS**, Holcomb JB, Wade CE, Coogan S, Fox CJ. Comparison of military and civilian popliteal artery trauma outcomes. *J Vasc Surg*. 2014 Jan 23. pii: S0741-5214(13)02313-6. doi: 10.1016/j.jvs.2013.12.037.
42. Dua A, Sudan R, **Desai SS**. Improvement in ABSITE Performance with a Multidisciplinary Surgeon-Directed Integrated Learning Platform. *J Surg Educ*. 2014 Apr 19. pii: S1931-7204(14)00056-7. doi: 10.1016/j.jsurg.2014.02.007.
43. Dua A, **Desai SS**, Coogan S. Practical Application of Bedside Diagnostics in Determining Limb Viability. *Vascular*. 2014 Jun 17. Pii: 1708538114540144.
44. Dua A, Upchurch GR Jr, Lee JT, Eidt J, **Desai SS**. Predicted Shortfall in Open Aneurysm Experience for Vascular Surgery Trainees. *J Vasc Surg*. 2014 May 27. pii: S0741-5214(14)00866-0. doi: 10.1016/j.jvs.2014.04.057.
45. Dua A, Kuy S, **Desai SS**, Kumar N, Heller J, Lee CJ. Diagnosis and Management of a Ruptured Popliteal Mycotic Pseudoaneurysm. *Vascular*. 2014
46. **Desai SS**, Dubose JJ, Parham CS, Charlton-Ouw KM, Valdes V, Estrera AL, Safi HJ, Azizzadeh A. Outcomes Following Endovascular Repair of Peripheral Arterial Trauma. *J Vasc Surg*. 2014.
47. Dua A, **Desai SS**, Coogan S. Practical Application of Bedside Diagnostics in Determining Limb Viability. *Vascular*. 2014 Jun 17. Pii: 1708538114540144.
48. Dua A, **Desai SS**. The Impact of a Vascular Learning Management System on Surgical Trainee Education. *Vascular Disease Management*. 2014.
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17. **Desai SS**, M. Codreanu, K. Charlton-Ouw, H.J. Safi, and A. Azizzadeh. "Endovascular Repair of a Ruptured Subclavian Artery Aneurysm in a Patient with Ehlers-Danlos Syndrome Using a Sandwich Technique." J Vasc Surg. 2012 Dec;56(6):1817-1818.
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19. **Desai SS**, Charlton-Ouw K, Sandhu HK, Miller CC, Azizzadeh A, Estrera AL, and Safi HJ. "Identifying Patients with Extent IV Thoracoabdominal Aortic Aneurysm at High Risk for Open Repair." Society for Clinical Vascular Surgery, Miami, FL. March 2013.
20. **Desai SS**, C.S. Parham, K.M. Charlton-Ouw, S.M. Coogan, A.L. Estrera, H.J. Safi, and A. Azizzadeh. "Outcomes Following Repair of Peripheral Arterial Trauma." Society for Clinical Vascular Surgery, Miami, FL. March 2013.
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22. Dua A, Patel B, **Desai SS**, Holcomb JB, Wade CE, Coogan S, Fox CJ. Comparison of Military and Civilian Popliteal Artery Trauma Outcomes. Association of Surgeons of Great Britain and Ireland (ASGBI). May 2013. \*PRIZE FOR BEST POSTER
23. Desai, PJ, Dua A, and **Desai, SS**. The diagnosis and management of infectious mononucleosis-like syndrome presenting as toxoplasmosis infection. Society of Hospital Medicine's Annual Meeting, National Harbor, MD. May 2013.

24. Kuy S, Dua A, Chong CJ, Patel B, **Desai SS**, Dua A, Szabo A, Patel PJ. National Trends in Utilization of IVC Filters over a Decade in the United States, 2000-2009. Society for Vascular Surgery. June 2013. \* Best Poster Award
25. Dua A, Sudan R, and **Desai SS**. Improvement in ABSITE Performance with a Multidisciplinary Surgeon-Directed Integrated Learning Platform. Journal of the American College of Surgeons. September 2013.
26. **Desai SS**, Dua A, Eidt J, and Hodgson K. Utilization of VESAP 2 Self-Learning Modules Improves Knowledge of Vascular Surgeons. Midwestern Vascular Surgical Society. September 2013.
27. Dua A, **Desai SS**, Johnston S, Chinapuvvula N, Dubose J, Azizzadeh A, Burgess A, Wade CE, Fox CJ, Holcomb JB. Extremity War Injuries IX: Reducing Disability within the Military (EWI IX). Washington DC, Feb 2014.
28. Dua A, **Desai SS**, Heller J. Identifying Gender Differences between the Incidence and Epidemiology of Iliac Vein Thrombophlebitis Using the National Inpatient Sample. American Venous Forum (AVF) New Orleans, LA. Feb 2014.
29. Dua A, **Desai SS**, Heller J. Advanced Chronic Venous Insufficiency: Does Race Matter? American Venous Forum (AVF) New Orleans, LA. Feb 2014.
30. Coogan S, Dua A, **Desai SS**, Charlton-Ouw K, Azizzadeh A. Practical Application of Bedside Diagnostics in Determining Limb Viability. Society for Clinical Vascular Surgery (SCVS) 42nd Annual Symposium on Vascular Surgery, Carlsbad, CA. March 2014
31. Dua A, **Desai SS**, Kuy S, Edmiston C, Lee CJ. National Trends in Surgical Site Infections in Open Vascular Procedures: Has SCIP Made an Impact? Society for Vascular Surgery (SVS). June 2014 \* **PRIZE FOR BEST POSTER**
32. **Desai SS**, Dua A. Region, Hospital Size, and Case Volume Influence Mortality from AAA Repair. Society for Vascular Surgery (SVS). June 2014 \* **PRIZE FOR BEST POSTER**
33. **Desai SS**, Dua A, Kuy S, Upchurch GR. Mitigating Mortality in Abdominal Aortic Aneurysmal Disease Through the Use of a Risk Register: Indications for EVAR vs. Open Repair. Society for Vascular Surgery (SVS). June 2014
34. **Desai SS**, Dua A. Expanded Screening for Mesenteric Ischemia Improves Diagnosis and Decreases Mortality. Society for Vascular Surgery (SVS). June 2014
35. **Desai SS**, Dua A. Smoking Cessation Does Not Impact Limb Amputation Rates in Buerger's Disease. Society for Vascular Surgery (SVS). June 2014
36. **Desai SS**, Dua A. Inferior Vena Cava Placement Utilization Among Over 250,000 Patients: National Trends, Complications, and Relative Contraindications. Society for Vascular Surgery (SVS). June 2014
37. **Desai SS**, Dua A, Eidt J. Challenges in Vascular Surgery Training: Open Aneurysm Repair in 2020. Society for Vascular Surgery (SVS). June 2014



38. **Desai SS**, Eidt J. Inexperienced Vascular Surgeons and Abdominal Vascular Cases Disproportionately Contribute to Malpractice Lawsuits. Society for Vascular Surgery (SVS). June 2014.
39. Rezigh A, **Desai SS**, Afifi R, Charlton-uw K, Miller C, Estrera A, Saafi H, Azizzadeh A. Celiac Artery Decompression for Median Arcuate Ligament syndrome: A US National Inpatient Sample Study. Society for Clinical Vascular Surgery (SCVS). October 2014.
40. Satani R, Safarik J, Pan J, Hood D, Hodgson K, **Desai SS**. Impact of Physician Specialty and Operator Experience upon Outcomes Following EVAR. Society for Clinical Vascular Surgery (SCVS). October 2014.
41. Andre J, Nolte N, Pan J, Hood D, Hodgson K, **Desai SS**. Impact of Physician Specialty upon Outcomes Following TEVAR. Society for Clinical Vascular Surgery (SCVS). October 2014.
42. Dua A, **Desai SS**, Johnston S, Chinapuvvula N, Wade C, Fox C, Holcomb John, Coogan S. The Impact of Geniculate Artery Collateral Circulation on Lower Limb Salvage Rates in Injured Patients. Society for Clinical Vascular Surgery (SCVS). October 2014.
43. Dua A, **Desai SS**, Heller JA. The Impact of Race on Advanced Chronic Venous Insufficiency. Accepted for oral presentation October 2014.
44. Andre J, Bly S, Pan J, Hood D, Hodgson, K, **Desai SS**. Duplex Criteria for the Diagnosis of Fat Embolism Syndrome. Selected for ePoster at the 43<sup>rd</sup> Annual Symposium on Vascular Surgery on March 29-April 2, 2015.
45. Naddaf A, Nolte, N, Khan I, Pan J, Hood D, Hodgson K, **Desai SS**. Epidemiology and Predictors of Outcome of Postphlebotic Syndrome. Selected for ePoster at the 43<sup>rd</sup> Annual Symposium on Vascular Surgery on March 29-April 2, 2015.

And 40+ additional abstracts. No longer updated.

### **Letters to Editor**

1. To: Steven P. Rivers regarding "Predicted Shortfall in Open Aneurysm Experience for Vascular Surgery Trainees"  
Journal of Vascular Surgery, Volume 61, Issue 5, May 2015, Page 1380

### **Editorials, Position and Background Papers**

1. **Desai SS**, Fisher C, Shortell C. "Combating fraud in medical research: an overview of the standards utilized by the Journal of Surgical Radiology." Council of Science Editors, Baltimore, MD. May 2011.

2. **Desai SS**, Shortell CK. Conflicts of interest for medical publishers and editors: Protecting the integrity of scientific scholarship. J Vasc Surg. 2011 Sep;54(3 Suppl):59S-63S.
3. **Desai SS**. "Databases are a blunt tool for identifying trends in data over large samples and over man years." Thoracic Surgery News, Vol. 10, No. 8, August 2014.

### **Manuscripts Reviewed for Peer-Reviewed Journals**

1. American Journal of Surgery  
Manuscript #AJS-D-14-00197  
Comparison of Effects of Devascularization with Shunt Portal Hypertension: A Meta-Analysis. June 2014
2. American Journal of Surgery  
Manuscript #AJS-D-15-00198  
Inferior Vena Cava Filter Placement at Bedside Using CT Scan Information: A new technique for an accurate deployment.  
April 2015
3. Annals of Vascular Surgery  
Manuscript #AVS-D-15-00851  
Endovascular Versus Open Repair for Ruptured Abdominal Aortic Aneurysms in the Chinese Population  
November 2015
4. Annals of Vascular Surgery  
Manuscript #AVS-D-15-00462R1  
Promoter Genotype Influences Serum MMP3 Levels and is Associated with Deep Venous Thrombosis  
November 2015
5. Annals of Vascular Surgery  
Manuscript #AVS-D-15-00628  
Thromboembolectomy of Acute Arterial Occlusion in Children  
December 2015
6. Annals of Vascular Surgery  
Manuscript #AVS-D-15-00569  
Open Removal of Penetrating IVC Filter with Repair of Secondary Aortic Dissection  
October 2015
7. Annals of Vascular Surgery  
Manuscript #AVS-D-15-00617  
Mid-Long Term Outcome of Using Zenith Stent Graft for Abdominal Aortic Repair a Single Center in Japan  
August 2015
8. Annals of Vascular Surgery  
Manuscript #AVS-D-15-00788  
Endarterectomy or Stenting in Severe Asymptomatic Carotid Stenosis

December 2015

9. Annals of Vascular Surgery  
Manuscript #AVS-D-15-00961  
Male Gender Predicts Rupture in Pancreaticoduodenal Artery Aneurysms  
December 2015
10. Annals of Vascular Surgery  
Manuscript #AVS-D-15-00851  
Endovascular Versus Open Repair for Ruptured Abdominal Aortic Aneurysms in a Chinese Population  
November 2015
11. Annals of Vascular Surgery  
Manuscript #AVS-D-15-00778  
A National Survey on Teaching and Assessing Technical Proficiency in Vascular Surgery in Canada  
November 2015
12. Annals of Vascular Surgery  
Manuscript #AVS-D-15-00767  
Analysis of perioperative Pain Management in Vascular Surgery Indicates that Practice Does not Adhere with Guidelines: A cross-Sectional Study  
October 2015
13. Annals of Vascular Surgery  
Manuscript #AVS-D-15-00596  
Evaluation of Heparinized Polycaprolactone Vascular Scaffolds in Dog Femoral Artery Transplantation  
October 2015
14. Annals of Vascular Surgery  
Manuscript #AVS-D-15-00697  
Circumferential Aortic Endarterectomy Followed with Immediate Infrarenal Clamping Obviates Suprarenal Clamping for Juxtarenal Aortoiliac Occlusion  
December 2015
15. Annals of Vascular Surgery  
Manuscript #AVS-15-00698  
Recurrent Arterial Thrombosis as a Presenting Feature of a Variant Acute Promyelocytic Leukemia  
September 2015

And 80+ additional manuscripts as editorial board member and associate editor. Full list available upon request.