

CURRICULUM VITAE

Dr. Raghu L Motaganahalli MD., MS., RPVI. FRCS., FACS, DFSVS
 Division Chief & Program Director of Vascular Surgery
 IU Methodist Hospital
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EDUCATION:

POSTDOCTORAL

Institution	Degree	Date Awarded
1) St Louis University School of Medicine	Fellowship -Vascular Surgery	06/2009
2) St Louis University School of Medicine	General Surgery-Resident	06/2007
3) Royal College of Surgeons in Ireland National University of Ireland	Higher Diploma in Quality in Health Care	04/2004
4) Nizam's Institute of Medical Sciences (University Hospital): Hyderabad-India	Fellowship: Vascular Surgery	01/2000
5) St. John's Medical College Bangalore University Bangalore-India	General Surgery Resident (M.S)	10/1996

GRADUATE

Dr. B R Ambedkar Medical College Bangalore University, Bangalore India Institution	MBBS (MD)	04/1992
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UNDERGRADUATE

MES College, Bangalore, India	Pre University Board	05/ 1986
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FURTHER EDUCATION: (Advanced and Specialty Training, Fellowships, Institutes)

Institution	Credential	Date Awarded
1) Augusta Hospital, University of Dusseldorf Germany	Visiting Vascular Surgery Fellow	2001-2002
2) Otto-Van Guericke University, Magdeburg	Visiting Vascular Surgery Fellow	2001-2002

(*in Rank)

Germany

- 3) Cardiovascular Institute, Buenos Aires Visiting Vascular Surgery Fellow 2001
Argentina

APPOINTMENTS:

ACADEMIC APPOINTMENTS

- | | | | |
|----|--|---------------------|------------------|
| 1) | Division of Vascular Surgery
Division of Vascular Surgery -Department of Surgery
Indiana University School of Medicine
Indianapolis, IN | Associate Professor | *07/2015-Present |
| 2) | Division of Vascular Surgery
Department of Surgery
Indiana University School of Medicine
Indianapolis, IN | Assistant Professor | 7/2009 – 6/2015 |
| 3) | Royal College of Surgeons in Ireland
Department of Surgery
Beaumont Hospital, Dublin 9 | Lecturer | 11/2002 – 6/2004 |

ADMINISTRATIVE APPOINTMENTS

- | | | | |
|----|---|--|-------------------|
| 1) | Division Chief of Vascular Surgery
Department of Surgery
Indiana University School of Medicine | | *06/2017-Present |
| 2) | Program Director for Vascular Surgery Training Programs
Division of Vascular Surgery, Department of Surgery
Indiana University School of Medicine | | *07/2012- Present |

NON-ACADEMIC APPPOINTMENTS

- | | | | |
|----|---|----------------------------|-------------------|
| 1. | Indiana University Health
Indianapolis | Attending Vascular Surgeon | *07/ 2009-Present |
| 2. | Eskenazi Health,
Indianapolis | Attending Vascular Surgeon | *07/2009 -Present |
| 3. | Richard Roudebush | | |

(*in Rank)

	VA Medical Center Indianapolis	Attending Vascular Surgeon	*07/2009-Present
4.	Division of Vascular Surgery St Louis University Hospital St Louis, MO	Fellow	7/2007 – 6/2009
5.	Department of Surgery St. Louis University Hospital St. Louis, MO	Resident	7/2004 – 6/2007
6.	Royal College of Surgeons in Ireland Department of Surgery Beaumont Hospital, Dublin 9	Senior Resident	11/2002 – 6/2004
7.	Augusta Hospital, University of Dusseldorf Uni-Klinik- Otto Van Guericke University Germany	Visiting Fellow	11/2001- 05/2002
8.	Vascular and Endovascular Surgery Instituto Cardiovascular de Buenos Aires Argentina	Visiting Fellow	2/2001 – 6/2001
9.	Department of Vascular & Endovascular Surgery Bhagwan Mahaveer Jain Hospital, Millers Road, Bangalore-560052 India	Clinical Associate	2000 –2002
10.	Vascular & Endo Vascular Surgery Nizams institute of Medical Sciences Hyderabad, India	Fellow	2/1999-1/ 2000
11.	Department of Surgery Church of South India Hospital Bangalore, India	Assistant	8/1998 – 1/1999
12.	St. John's Medical College St John's National Academy of Health Sciences Bangalore, India	Resident – Surgery	6/1993 – 6/1998
13.	K.C. General Hospital Bangalore –India	Internship	4/1991 – 4/1992
CONSULTING			*06/2016- 06/2019

Silk Road Medical Inc. I was involved with training physicians for performing carotid stents procedure using transcervical approach with flow reversal technology. I was also involved in

(*in Rank)

proctoring several programs across the country in establishing transcervical carotid stent programs in their institutes. I have proctored cases in Dartmouth Medical Center, Carolinas Medical Center, University of Wisconsin School of Medicine and Public health, Good Samaritan Hospital-OH, Baptist Medical Center-KY, and NYU-Langone Medical Center- New York City.

PATENTS: Modular Stent grafting methods and apparatus – US Patent number 10413395
Date of issue -9/17/2019 *

LICENSURE

MEDICAL LICENSURE

- Medical license
 - Indiana: Active - 01066089A (10/21)
 - Missouri: Active -2008002554
 - Kentucky: Active -41213
- Permanent Medical registration—Karnataka Medical Council, India

OTHER CERTIFICATION,

Registered Physician in Vascular Interpretation (RPVI)	2015 *
BLS/ACLS – American Heart Association	2020*
Business of Medicine – Kelly School of Business Certificate Indiana University	2018*

SPECIALTY BOARD STATUS (as applicable for discipline):

Education Commission for Foreign Medical Graduates	
ECFMG certification: 0-503-306-3.	1995
Fellowship Royal College of Surgeons - Fellowship examinations	1997
Royal College of Surgeons of Edinburgh, UK	
American Board of Surgery- Vascular Surgery (#101987) (Re-certified)	2010 (2019)*
American Board of Surgery (#052698) (Re-certified)	2007 (2018) *

PROFESSIONAL ORGANIZATION MEMBERSHIPS:

- Current Member (Active Membership)
 - American Medical Association
 - Midwestern Vascular Surgery Society (MVSS)
 - Association of Program Directors in vascular surgery (APDVS)
 - Vascular and endovascular surgery society (VESS)

(*in Rank)

- Society for Clinical Vascular Surgery (SCVS)
- Association for Academic Surgeons (AAS)
- Indiana State Medical Association (ISMA)
- American Venous Forum (AVF)
- South Asian American Vascular Surgery Society (SAAVS)
- Life member- Vascular Society of India. (VSI)
- Fellow - American College of Surgeons
- Distinguished Fellow – Society for Vascular Surgery
- Fellow- Royal College of Surgeons of Edinburgh, UK
- Alpha Omega Alpha – Honor Medical Society (AOA)

PROFESSIONAL HONORS AND AWARDS:

A. Teaching

- Donald Kaminski Award for the excellence in Resident Education - 2007
- Outstanding Resident teacher of the year - St Louis University School of medicine - 2007
- Indiana University Trustee Teaching Award - 2012
- IUSOM -Department of Surgery recognition for teaching – 2012
- *IUSOM-Department of Surgery excellence in resident and fellow teaching -2018
- *IUSOM-Department of Surgery excellence in Medical Student teaching -2019

B. Service:

- Best Paper Award at the Annual Conference of Association of Surgeons of India, Karnataka State Chapter 1996
- Nominated for the St. Louis University Hospital “Caring Physician Award” –2005
- Nominated for Emerick Szilagyi award – Clinical Research paper at Midwest Vascular surgery society-2011
- *Distinguished Fellow of Society for Vascular Surgery-2020

C. Other

- Gold Medal- Association of Otolaryngologists of India, Bangalore Branch, India-1991
- German Surgical Society- Travelling fellowship-2002

- St Louis University – Department of Surgery Award for obtaining highest score in ABSITE examinations - 2007
- Travelling Grant from Peripheral Vascular Surgery Society – 2008

PROFESSIONAL DEVELOPMENT:

1. Diabetic Foot Meeting – Georgetown University Washington DC 2009
2. Ruptured Abdominal aortic aneurysm workshop- University of New York, Albany 2009
3. Program for regulatory and compliance requirement for health care professionals 2009
4. Society for Vascular Surgery Coding Course – Chicago 2009
5. Leadership in Academic Medicine (LAMP) – Indiana University 2009
6. Grant Writing Workshop-Office of Faculty Professional Development and Indiana University 2010
7. Vascular surgery review course - 2010
8. Web Based Continuing Medical Education program (VESAP) by Society for Vascular Surgery
9. Midwestern Vascular Surgery Society annual meeting – Indianapolis - 2010
10. Short course in Biostatistics – Indiana University 2010
11. Indiana State Chapter American College of Surgeons meeting - 2010
12. Vascular Annual Meeting - 2010
13. Veith Symposium –New York - 2010
14. Society for Clinical Vascular Surgery - 2011
15. National Symposium on Noninvasive vascular diagnosis St. Louis - 2011
16. Indiana State Chapter of American College of Surgeons - 2011
17. American College of Surgeons meeting – San Francisco - 2011
18. Vascular annual Meeting – Society for Vascular Surgery, Chicago - 2011
19. Midwestern Vascular Surgery Society Annual Meeting, Chicago - 2011
20. Global Embolization Summit – New York 2012
21. Society for clinical vascular surgery, Orlando Florida - 2012
22. MWVSS annual meeting, Milwaukee WI - 2012
23. Vascular Annual Meeting, Washington DC - 2012
24. Department of Surgery staff retreat- Professional Development 2012

25. Indiana State Chapter American College of Surgeons, Chicago - 2013
26. National Symposium on Noninvasive vascular diagnosis St Louis - 2013
27. Association of Program Directors in Vascular Surgery-Chicago - 2013
28. Midwestern Vascular Surgery Society annual meeting – Chicago 2013
29. APDVS Meeting, Chicago- March 2014
30. Indiana State Chapter American College of Surgeons Annual Meeting, Indianapolis-2014
31. Society for Vascular Surgery-Vascular Annual Meeting, Boston-2014
32. Midwestern Vascular Surgery Society –Annual Meeting. IowaCity-2014
33. Veith Symposium- New York –November 2014
34. Physician Engagement –Leadership Program IUHP
35. Society for Clinical Vascular Surgery- SCVS March 2015
36. APDVS Meeting- Chicago April 2015
37. St Louis Non-invasive Vascular Symposium 2015
38. SVS –Vascular Annual Meeting – Chicago June 2015 *
39. MWVSS Annual Meeting – Chicago, September 2015 *
40. American College of Surgeons- October2015 *
41. Leadership Program “Leaders growing leaders” – Department of Surgery –IUSOM 2016 *
42. APDVS Meeting – Chicago April 2016 *
43. SVS- Vascular Annual meeting Washington DC 2016 *
44. MWVSS Annual Meeting, Columbus –OH 2016 *
45. Leadership and Management Foundations for Academic Medicine – AAMC 2017 *
46. APDVS Meeting –Chicago April 2017 *
47. St Louis Non-Invasive Vascular Symposium April 2017 *
48. American College of Surgeons –Indiana State Chapter Annual Meeting, April 2017 *
49. Society for Vascular Surgery- Vascular Annual Meeting San Diego, CA 2017 *
50. Midwestern Vascular Surgery Society Meeting, Chicago 2017 *
51. American College of Surgeons, Surgical Congress. Boston Oct 2018 *
52. Midwest Vascular Collaborative –Vascular Quality Initiative Fall meeting – Nov 2017 *
53. APDVS meeting –Chicago March 2018 *
54. American College of Surgeons –Indiana State Chapter April 2018 *
55. Midwest Vascular Surgery Society – St Louis Sep 2018 *

56. Vascular Endovascular Surgery Society -Winter Meeting – Salt Lake City, UT 2019 *
57. APDVS Meeting -Chicago March 2019 *
58. Indiana State Chapter -American College of Surgeons -Apr 2019 *
59. Society for Vascular Surgery, VAM -Washington DC, June2019 *
60. Midwestern Vascular Surgery Society – Chicago – September 2019 *
61. Indiana Health Leadership Academy (IHLA) – Indianapolis- November 2019*
62. Vascular Society of India – VSICON, Hyderabad, India 2019*
63. APDVS Virtual meeting – May 2020 *
64. Society for Vascular Surgery virtual meeting –June 2020*
65. Midwestern Vascular Surgery Society virtual meeting -2020 *

TEACHING:

TEACHING ASSIGNMENTS:

Graduate:

Medical student education –

- 1) Introduction to clinical medicine: ICM-2
 - Taught course for years 2009,2010,2011,2012
 - The course includes teaching clinical examination of vascular system for second year medical students
 - Introduction sessions of half day
 - 1-2 days' time spent for the course
- 2) Clinical Skills workshop-GLIC course for Medical Students 2009-2012
 - Suture / wound care /arterial puncture workshop for medical students
 - Half a day session once a year
 - Includes second year medical students
- 3) *Clinical teaching for 3rd and 4th year medical students 2009- Present
 - Vascular surgery teaching encounter during surgical procedures, rounds, and in outpatient clinic setting.
 - Approximately 50-60 hours per year
- 4) *Vascular surgery medical student education coordinator at VA Medical Center

(*in Rank)

- Involves coordinating and meeting educational needs of the 3rd year medical student
 - Providing feedback/evaluations for their training
- 5) *Simulation Workshop for Graduating Medical Students -2017 Fasciotomy sessions – Cadaver lab April 2017
- 6) *Online vascular surgery educational curriculum for medical students (2019).

POSTGRADUATE

1) General Surgery Resident education:

- Professor's hour: Problem based learning session for General surgery residents. 2-4 Hours per year /Moderator for the session 2011,2012
- Online lecture about endothelial cells for general surgery residents to meet basic science curriculum requirement. Two hours' session /Lecture
- Resident Orientation Small group discussion -2014 (Compartment Syndrome)
- *Organized Vascular Anastomosis workshop for General Surgery Residents for hands on training with supervision 2010, 2011, 2012. 2015,2017,2018,2019 Half day workshop, twice a year. Course teacher
- *Resident Mock oral examinations – 2009,2010,2011,2013,2015 ,2016,2018
Two hours per examinations annually.
- *Operating room teaching for general surgery residents 2009-Present

2) Vascular Surgery residents and fellow education:

- *Teaching during Case planning session - One-hour session every week
- *Morbidity /Mortality meetings - Two-hour session once a month
- *Clinical rounds teaching – one-hour session every week
- *Journal club – twice a month, one-hour session
- *Vascular surgery book club: one-hour session twice a month
- *Operating room teaching: during surgical procedures approximately 3 days a week.

MENTORING:

- Mentor residents as a program director – Meet with the vascular surgery integrated residents as well as Independent program residents /fellows routinely and provide them feedback on their performance *
- Mentor General Surgery residents who are on Vascular Surgery rotation and provide them guidance and feedback on a day to day basis. *
- Mentor Medical Students in educating them about the opportunities available in the field of Vascular Surgery through GLIC sessions, Vascular Surgery interest group, Society for Vascular Surgery (SVS) committees *
- Initiated exchange fellowship program with India through SAAVS and Vascular Society of India for two weeks. Visiting Scholars understand the practice of Vascular Surgery at IU. 2018-Present *
- I have mentored following residents/medical students with career advice or conducting clinical research , publishing under my guidance

Name	Title	Period	Mentorship	
1. Dr.Beejay Feliciano	Fellow in vascular surgery	2009-11	One paper and two presentations	
2. Dr Alok Gupta	Fellow in vascular surgery	2011-13	One presentation / Career Guidance	
3. Dr.Angela Martin	Resident in Gen Surgery	2011-14	One publication, two presentations/Career Guidance	
4. Dr.Hao Vu	Resident in Vascular Surgery	2011-14	One Presentation /Career Guidance	
5. Dr.Ben Aumiller	Resident in Vascular Surgery	2011-15	One book Chapter	
6. Dr.Adam Gracon	Resident in General Surgery	2013-15	One publication and Three presentations	
7. Dr.Bradley Kim	Resident in General Surgery	2014	One Publication and two presentations	
8. Dr.William Yoon	SVS mentorship program	2014	Career Advise	
9. Dr.Michael Harlander-Locke	SVS mentorship program	2015	Career Advise Two publications and one presentation	*
10. Dr.Bradley Downing	Medical Student	2015	Career Advise	*
11. Dr.Anjan Talukdar	Fellow in Vascular Surgery	2014-16	One publication and two presentations	*
12. Dr.Victor Njoku	Resident in Vascular Surgery	2014-16	Two presentations /career advise	*
13. Dr.Fenil Patel	SVS mentorship program	2016	Career advise	*
14. Dr.Richard Denny	Fellow in vascular surgery	2015-17	Two presentations	*
15. Dr.Emily Serafin	Resident in vascular Surgery	2015-17	Two presentations /Career advise	*

(*in Rank)

16. Dr. Julia Miladore	Fellow in Vascular Surgery	2017-19	Two publications	*
17. Dr. Tiffany Liang	Resident in Vascular Surgery	2017-19	One poster presentation and one Publication	*
18. Dr. Mike Ingram	Resident in Vascular Surgery	2017	One publication	*
19. Dr. Justin King	Resident in Vascular Surgery	2018	One poster and two VSCORE modules	*
20. Dr. Keisin Wang	Resident in Vascular Surgery	2017-20	Four publications, Career Advise	*
21. Dr. Andi Peshkepija	Fellow in Vascular Surgery	2018-20	Two VSCORE modules and one publication	*
22. Dr. Mohd Rishi	Fellow in Vascular Surgery	2018-20	One presentation and publication in progress	*
23. Dr. Ashley Gutwein	Resident in Vascular Surgery	2018-20	One VSCORE module	*
24. Dr. Jane Liao	Medical Student	2018-20	One publication and two presentations, career advise	*
25. Dr. Nick Donde	Medical Student	2018-20	One publication and two presentations, career advise	*
26. Dr. Nicolas Stafforini	SVS mentorship Program	2019	Career advise	*
27. Dr. Domingo Uceda	Medical Student	2020	Career advice and research projects	

TEACHING ADMINISTRATION AND CURRICULUM DEVELOPMENT: List activities focused on enhancing the teaching and learning environment.

- 1) *Program Director for the Vascular Surgery Residency (0-5 Integrated) as well as the Fellowship (5+2 Independent) Programs since July 2012.
- 2) General Surgery GME committee for evaluating resident performance 2012-14
- 3) General Surgery – Curriculum development and resident issue committee 2012-14
- 4) Program Chair for the Midwestern Vascular Surgery Mock oral examinations - 2012, 2013, 2014, 2015 *Conceptualized a new fellow centered educational activity at the Mid-West Regional Vascular Society to help residents and fellows prepare for the Vascular Surgery certifying board examinations
- 5) *Program Director for the mock oral examinations at the Indiana University School of Medicine – Division of Vascular Surgery since 2010-2016*. This is an ongoing effort to help our residents to perform well at the Certifying board examination of the American Board of Surgery – Vascular Surgery examinations. I am involved with creating a question bank as well as in organizing examinations on an annual basis

(*in Rank)

- 6) *Course Director for Endovascular technology workshop since 2012-17*. We created a new program to facilitate industry engagement with the residency training. This program is aimed at providing the learners an educational environment to update them about the current and emerging technology in the field of vascular surgery. The program has broadened now conducted with Midwest Vascular Society.
- 7) *Registered Physician in Vascular Interpretation course for Vascular surgery residents 2012-Present – I am involved with organizing and introducing the curriculum on noninvasive vascular lab evaluations for the vascular surgery residents to prepare them for Vascular Interpretation examinations. *
- 8) * Physician Assistant Teaching at IU health PA Program – Provide vascular surgery lectures annually 2014,2015,2016*, 2017*

RESEARCH/CREATIVE ACTIVITY:

A) On-going active Research: Open Drug Studies/ Randomized trials /Multi Center trials

- 1) * 1UM1HL113457-01 (NIH).*Utility of Autologous and Allogeneic Cell Therapy for Peripheral Arterial Disease*. Cardiovascular Cell Therapy Research Network (CCTRN) of the National Heart, Lung, and Blood Institute. \$7.8M Begin Date: 3/5/2012. End Date: 2/28/21. Murphy, PI. **Co-Investigator -Motaganahalli, (10% effort)**.
- 2) *Zenith P Branch Study- Industry sponsored multicenter study evaluating efficacy of endovascular therapy using P branch stent design for treatment of para-visceral aortic aneurysms; Granting agency –COOK; Grant amount- \$ 39,462; Role – **Co-investigator-Motaganahalli**
- 3) *Randomized trial comparing endovascular therapy with surgery for lower extremity arterial insufficiency (BEST Trial) – Multicenter randomized study sponsored by National Institutes of Health (NIH) for evaluating open or endovascular therapy for treatment of lower extremity limb ischemia – Grant amount \$476,239. Role- Site **Principal Investigator-Motaganahalli**
- 4) *Zenith Iliac Branch Graft – Industry supported study for treatment of iliac aneurysms with preservation of hypogastric arteries. \$59,707 PI- Dr.Andres Fajardo.**Co-Investigator – Motaganahalli**

(*in Rank)

- 5) Phase I study to examine the safety and efficacy of the MarrowStim P.A.D. Kit in concentrating autologous bone marrow cells for the prevention of wound complications in below-knee amputation. This is a randomized, open label, placebo-controlled trial that will enroll twenty patients undergoing below knee amputation. (\$1.2 M .Zimmer-Biomet, Inc.) Begin Date: March 1, 2016. End Date: July 2, 2020. PI; Murphy, **Co-Investigator Motaganahalli, (5% effort).**
- 6) *R01HL128827-01 (NHLBI). A clinical and histological analysis of mesenchymal stem cells in amputation. \$2.3 M. Begin Date: 6/1/2016. End Date: 3/31/2020. PI: Murphy, **Co-Investigator. Motaganahalli, (5% effort).**
- 7) 1I01CX001407-01A1 (VA Clinical Research and Development Award). Mesenchymal stem cells induce regulatory T cells in patients with aortic aneurysm. Begin Date: 7/1/2016. End Date: 10/31/2020. \$ 1.1M. Murphy, PI. **Co-Investigator; Motaganahalli, (5% effort).**
- 8) *"Acute effects of leg heating on circulating inflammatory and angiogenic factors and proangiogenic cells in patients with intermittent claudication."(NCT 03763357) - CTSI funded study collaborating with Dr. Bruno Roseguini –IRB approved, Pilot study in progress Grant Amount- \$11,000; Role - **Co investigator -Motaganahalli**
- 9) *Effect of leg thermotherapy application on calf muscle blood flow in patients with intermittent claudication. Indiana Institute for Biomedical Imaging Sciences (IIBIS) Research Development Initiative **Duration of funding: 5/2015-5/2016.Total Amount of Award: \$12,462. Co-Investigator : Motaganahalli**
- 10) *VA Clinical Research and Development Award. Mesenchymal stem cells induce regulatory T cells in patients with aortic aneurysm. Begin Date 4/1/2016. End Date: 3/31/21. PI: Murphy. **Co-Investigator** Raghu Motaganahalli (Effort 5 %) (Murphy, PI)
- 11) *American Heart Association Grant– Thermotherapy for Intermittent Claudication –PI Bruno Roseguini : Grant Amount 205,747. **Co-Investigator Motaganahalli (1% effort)**
- 12) *Heat therapy to reduce leg pain and improve walking tolerance in patients with symptomatic peripheral artery disease 2017. Indiana Clinical and Translational Science Institute, Collaboration in Translational Research – CTSI grant for 75,000\$. **Co-Investigator -Motaganahalli**
- 13) * Relay®Pro FDA Phase II Clinical Trial. The trial is designed to study the safety and effectiveness of the RelayPro Thoracic Stent-Graft System as a treatment for endovascular

repair of descending thoracic aortic aneurysms. Granting agency: Bolton Medical Inc. PI: Dr.Joel Corvera. **Co-Investigator – Motaganahalli**

- 14) * Effect of leg heat therapy on calf muscle blood flow in patients with symptomatic peripheral artery disease. Indiana Institute for Biomedical Imaging Sciences (IIBIS) Research Development Initiative .**Duration of funding:** 2/15/2019 – 2/14/2020.**Total Amount of Award:** \$7,111. **Co-Investigator : Motaganahalli**
- 15) *Heat therapy for intermittent claudication Granting Agency -National Institutes of Health (NIH) -R21 AGO053687-01A1 Grant amount : \$228,559.00 Role: **Sub-Principal Investigator** (1% effort) *
- 16) *DWI- MRI following Transcervical carotid stents; Multicenter study – Granting agency- Silk Road Medicals inc, Grant amount - \$159,733 Role – **US National Principal investigator** *
- 17) * Pilot Study evaluating: Intermittent pneumatic compression to improve the outcome of revascularization for severe peripheral artery disease (NCT Protocol ID 1907961196). Granting agency :Office of the Executive Vice President for Research and Partnerships – Purdue University, New R01/U01/P01 Program and IUPUI PDT .**Duration of funding:** 6/1/2019 - 12/20/2020.**Total Amount of Award:** \$30,000 (Purdue University) + \$10,000 (IUPUI) **Co-PI : Dr.Bruno Roseguini and Dr.Motaganahalli .**
- 18) * AAA 17-01 GORE® EXCLUDER® Thoracoabdominal Branch Endoprosthesis (TAMBE) Pivotal Study. Multicenter study evaluating thoracoabdominal aortic aneurysm treatment using branch graft study. Granting agency; WL Gore and Associates. **Site PI: Dr. Motaganahalli**
- 19) * BEST Registry – NHLBI sponsored multi-center study evaluating the real-world outcomes for management of Critical Limb threatening ischemia. PI: Dr.John Maijub
Co-Investigator. Motaganahalli

B. Completed Research

- Open Device Trials- Industry Sponsored Studies
- Open drug studies/Randomized trials

- 20) Cardiovascular Outcomes in Renal Atherosclerotic Lesions Randomized and Multi-Center Two-Group Clinical Trial to Assess the Best Treatment for Patients with High Blood Pressure and Renal Artery Stenosis: Stenting with Anti-Hypertensive Medical Therapy, Compared to Medical Therapy Alone (CORAL). Donald L. Jacobs, M.D - Principal Investigator, Sub-Investigator- Raghu Motaganahalli. Sponsor: Medical College of Ohio @ Toledo, NHLBI, Astra Zeneca, Cordis Corporation. 2005
- 21) A Phase2, Randomized, Double-blind, Placebo-controlled, Parallel-group, Multicenter, Dose-Selection Study of Ad2/Hypoxia Inducible Factor (HIF)-1 alpha/VP16 in Patients with Intermittent Claudication. Principal Investigator: Dr. Catherine Wittgen, Sub Investigator – Dr. Raghu Motaganahalli
- 22) Prospective, Randomized, Double-Blind (Phase 3) Study of Rifalazil Treatment on the Number of Vascular Interventions and Peripheral Vascular Disease Endpoints in Chlamydia Pneumoniae Seropositive Patients. St. Louis University site. Principal Investigator: Dr. Catherine Wittgen, Sub Investigator – Dr. Raghu Motaganahalli
- 23) Phase -2 A multicenter, Randomized, Double-blind, Placebo and active-controlled, Parallel-Group study to evaluate the safety and efficacy of K-134 for treatment of intermittent claudication. Principal Investigator: Dr. Catherine Wittgen, Sub Investigators – Dr. Raghu Motaganahalli, Dr. Brian G Peterson.
- 24) A randomized double –blind placebo –controlled parallel group study of the efficacy and safety of four administrations of XRP0038/NV1FGF 4 mg at 2-weeks intervals on amputation or any death in critical limb ischemia patients with skin lesions. Principal Investigator - Dr. Catherine Wittgen, Sub Investigators: Dr. Raghu L Motaganahalli, Dr. Brian G Peterson.
- 25) A multinational, multicenter, randomized, double blind study comparing the efficacy and safety of AVE5026 with enoxaparin for the prevention of venous thromboembolism in patients undergoing major abdominal surgery. Principal Investigator: Dr. Catherine Wittgen and Dr. Robert G Johnson, Sub investigators- Dr. Raghu Motaganahalli, Dr. Brian Peterson.
- 26) The FORMAT Study: Clinical Study is a clinical trial to evaluate the safety and effectiveness of the Formula™ 535 Iliac Balloon-Expandable Stent in treatment of symptomatic vascular disease of the iliac arteries; Currently enrolling; Granting agency-

- Industry sponsored study (COOK) – Grant amount-\$ 170,320; % effort – 6%; Role -**Co investigator**
- 27) Tigris stent Study- Tigris stent trial will be the first randomized study to directly compare two nitinol stent platforms in the superficial femoral artery. In this study, patients with claudication and SFA disease will be randomized in a 2:1 design to placement of either Tigris stent or Life Stent. Completed enrollment ; Granting agency –Industry Sponsored WL Gore associates; Grant amount- \$98,204; % effort- 25%; Role – **Principal-investigator**
- 28) COOK Vivo Study – Vivo clinical research study to evaluate the safety and effectiveness of the Zilver Vena venous self-expanding stent in the treatment of symptomatic iliofemoral venous outflow obstruction- Currently enrolling; Granting agency –Industry Sponsored study by COOK; Grant amount- \$ 241,969; % effort- 6%; Role – **Co-investigator**
- 29) Covered Stents for iliac artery occlusive disease study (Viabx) – Industry sponsored multi-center study (WL Gore) – Evaluating balloon expandable covered stents for treatment of iliac artery occlusive disease –**Site Principal investigator**
- 30) Vascutek Anaconda™ Stent Graft System Phase II IDE Study – Terumo (Sawchuk/Motaganahalli) IRB 09-081: 2009-2011. Enrollment complete; Granting agency – Industry Sponsored study by Terumo; Grant amount- \$120,615; % effort- 3 %; Role – **Co-investigator**
- 31) FREEDOM Study: GORE Flow Reversal SystEm and GORE®Embolic Filter Extension Study for the Ongoing Collection of Patient (Motaganahalli) IRB 1103-07- Enrollment complete (2011 to August 2013); Granting agency –Industry Sponsored Study by WL Gore Associates; Grant amount- \$ 37,250; % effort- 10%; Role – **Principal-investigator**
- 32) CREATE Registry – ev3 Carotid angioplasty and stent using spider embolic protection system (Sawchuk/Motaganahalli) Approved by IRB- Enrollment complete; Granting agency- Industry Sponsored study by EV3 –; Grant amount- \$ 32,000; % effort- 5%; Role – **Co-investigator**
- 33) Multicenter, Double-Blind, Placebo-Controlled Study of PRT-201 Administered Immediately After Arteriovenous Fistula Creation in Patients with Chronic Kidney Disease - (Akingba / Motaganahalli) IRB 1103005064: Enrollment complete; Granting agency – Proteon Therapeutics; Grant amount- \$ 114,295; % effort- 1%; Role – **Co-investigator**

- 34) Ventana Fenestrated Aortic Stent Graft CP-0003 (Feasibility) – Endologix (Sawchuk/Motaganahalli) -Enrollment complete; Granting agency –Industry Sponsored Study by Endologix; Grant amount- \$ 94,478; % effort- 5%; Role – **Co-investigator**
- 35) Ventana Fenestrated Aortic Stent Graft CP-0004 (Pivotal) – Endologix (Sawchuk/Motaganahalli) – Enrollment complete; Granting agency –Industry Sponsored study by Endologix; Grant amount- \$ 248,852; % effort- 5%; Role – **Co-investigator: Motaganahalli**
- 36) Biomet, Inc. The MOBILE Trial: MarrowStim (TM) PAD kit for the treatment of critical limb ischemia (CLI) in subjects with severe peripheral arterial disease (PAD). Multicenter Phase III randomized, double blinded trial. \$26.2 M.Murphy, National PI. End: July 1, 2016. **Co-Investigator: Motaganahalli (15% effort).**
- 37) *PRESERVE Study (Prevention of Serious Adverse Events Following Angiography): The purpose of this research study is to compare the effectiveness of intravenous isotonic sodium bicarbonate with intravenous isotonic sodium chloride and oral N-acetylcysteine with oral placebo for the prevention of serious adverse outcomes following angiographic procedures in high-risk patients. Currently enrolling; Granting agency –VA Co-operative study; Grant amount- \$100,000; % effort- 2%; Role – **Co-investigator**
- 38) *Long Term follow up study of patients undergoing transcervical carotid stents - ROADSTER 2 Long term follow up study. Granting agency- Silk Road Medicals inc , Grant Amount : \$ 39,041 Role : Site **Principal investigator**
- 39) *Roadster-2 study Trans cervical Carotid Stent Study sponsored by Silk Road Medicals. Start date Jan 2016, Grant amount: \$202,916 Completed enrollment. **Principal Investigator**

Submitted Grant Applications – Not funded, pending:

1. Randomized Control Study evaluating role of Intermittent Pneumatic Compression to improve the outcome of revascularization for critical limb ischemia. IU School of Medicine/Purdue University -Devices Advancing Surgical Care 2016. Co-PIs- Bruno Roseguni and Raghu Motaganahalli.
2. Development and testing of a failure resistant endograft in an in -vitro model using 3D printing and physiologic, pulsatile flow model. IU School of Medicine/Purdue University - Devices Advancing Surgical Care 2016. PI: Alan Sawchuk. Co-investigator-Motaganahalli.

(*in Rank)

3. *Effect of whole-body hyperthermia on inflammatory markers in hospitalized patients with COVID-19 (Application Pending)
4. *INTACT-AD – NIH Sponsored Study, evaluating Type B aortic Dissection treatment with and without Thoracic Endovascular Repair (Application Pending)

SERVICE:

A. UNIVERSITY SERVICE:

Department and Division:

- 1) *Member- Vascular Surgery Graduate medical education committee- 2009 to present. Clinical Competency committee and Annual Program Evaluation Committee
- 2) Member- General Surgery residency interviews 2011
- 3) Member – Department of Surgery – GME committee -2012-2015
- 4) Member- Department of Surgery- Resident curriculum/ Education committee 2012 -2015
- 5) *Chair- Vascular surgery mock oral examinations – 2011 to 2016, 2018
- 6) *Member -Vascular surgery resident and fellowship selection committee 2009 to present
- 7) *Examiner- General Surgery Mock oral exams 2011,2013, 2014, 2016,2018
- 8) *Member- Department of Surgery Program Directors committee 2018-Present
- 9) *Member- Department of Surgery – Surgical Council 2017-Present
- 10) *Member- Department of Surgery Promotion & Tenure Committee 2017-Present

School of Medicine:

- 1) *Vascular Surgery clerkship coordinator- Veteran’s Administration Medical Center 2011 - present
- 2) Faculty Advisor for Medical Students-2012-15
- 3) Curriculum reforms committee 1.0- Communication and clinical skills Committee: 2010 - 2011
- 4) Curriculum reforms committee 2.0- Using Science committee: 2011-2012
- 5) Clinical Curriculum council committee 2013 –15 Indiana University School of Medicine

School /University:

1. Indiana University Faculty Council-Standby Member 2014

2. *Indiana University School of Medicine – Graduate Medical Education, Executive Council committee member 2019

B. PROFESSIONAL SERVICE:

Local:

- 1) *Attending Vascular Surgeon – Vascular Surgery at Indiana University Methodist Hospital, Roudebush VA Medical Center-Indianapolis, IU West Medical Center, Wishard Memorial Hospital / Eskenazi Health : 2009 to present
- 2) Indiana University Health /Indiana University Health Physicians /IU Methodist Hospital
 - a. Computer based Physician Order Entry (CPOE) committee – Member for creating computer-based order sets for vascular surgery patients
 - b. Member- Indiana University Health – National Surgical Quality Improvement Program (NSQIP) vascular section 2010
 - c. Member- Service excellence committee hospital co – management placing emphasis on physician and patient satisfaction 2013-15
 - d. *Member- Indiana University Health Physicians –Medical Staff Executive Committee (MSEC) 2016
 - e. *Member – Indiana University Health Vascular Process Improvement committee, 2011-present
 - f. *CV Business development and financial accountability committee -2018 (IU Health service line committee)
 - g. *IU Health Cardiovascular Clinical center & recruitment committee 2018-Present (IU Health service line committee)
 - h. *Member- IU- Academic Health Center OR Advisory Cabinet 2017-Present
 - i. *Member- IU Methodist OR Quality Council 2017- Present
 - j. *Member- Vascular Clinical Effectiveness Council 2019
 - k. *Member – Indiana University Cardiovascular Center Cabinet – March 2020- Present
- 3) Midwest Vascular Collaborative – Vascular Quality Initiative (Society for Vascular Surgery/ Patient Safety Organization) for Indiana

(*in Rank)

- a. *Chair- Vascular quality initiative (VQI) Midwest Vascular Collaborative (MVC) – Quality Committee 2013-15 *
- b. *Chair- Vascular Quality Initiative (VQI) Midwest Vascular Collaborative (MVC)- Research Advisory Committee 2015-Present

Regional:

- 1) American College of Surgeons – Indiana State Chapter
 - a. Program chair- for American College of Surgeons Indiana State Chapter annual meeting held in Chicago 2013, Indianapolis 2014.
 - b. *Representative to CMS- J8- Contractor Advisory Committee provide expert comments to Local area coverage determination ,issues affecting vascular surgery practice 2014-Present
 - c. *Executive Council Member – American College of Surgeons, Indiana Chapter 2012-2015
 - d. *Secretary-Treasurer – American College of Surgeons, Indiana State Chapter 2016-17.
 - e. * President –Elect, American College of Surgeons, Indiana State Chapter 2017-18.
 - f. * President- American College of Surgeons, Indiana State Chapter 2018-19 *
 - g. *Past- President –American College of Surgeons , Indiana State Chapter 2019-20
- 2) *Society for Vascular Surgery (SVS) - Midwest Vascular Collaborative (MVC) quality initiative representative for National Research Advisory Council -VQI 2014-18

National:

- 1) Midwestern Vascular Surgery Society
 - a. *Program Chair for mock oral examination for vascular surgery fellows and residents – Proposed the plan and coordinated the initial examination at the annual meeting of the Midwestern Vascular Surgery Society in Wisconsin 2012, Chicago 2013, Iowa City 2014, and Chicago 2015.
 - b. Midwestern Vascular Surgery Society – Chair: Education subcommittee 2014-15
 - c. *Councilor -Executive council member - 3-year term starting in 2013 (2013-2016)
 - d. *Program Co-Director- Advanced Arterial Interventions workshop for practicing Vascular Surgeons 2017, 2018, 2019

- e. *President -Elect , Midwestern Vascular Surgery Society 2019-20
- 2) Society for Vascular Surgery (SVS)
 - a. * Medical student and resident outreach committee 2015-18, activities to increase awareness amongst medical students and residents regarding opportunities available in the field of vascular surgery
 - b. * SVS resident mentor- 2014-17, 2019 - Career advising for medical students
 - c. *Post Graduate Education Committee (PGEC) 2018- Present. Committee is entrusted with creating the program content for post graduate education for Vascular Annual Meeting.
 - d. *SVS- VQI TCAR Transcarotid artery revascularization steering committee 2017-Present
 - 3) American College of Surgeons (ACS)
 - a. * Video Based educational committee (2014-18). Chair of the Video based educational program –Clinical Congress 2012-2015
 - b. *Member – Committee on Applicants for Fellowship of the College , District 1 2019-Present
 - 4) Association of Program Directors in Vascular Surgery (APDVS)
 - a) *Member- Core Curriculum Committee 2013-2016.
 - b) *Chair of Curriculum Committee 2017
 - c) *VSCORE curriculum committee 2016-19.
 - d) *Curriculum committee- Ex-Officio 2018-19.
 - e) Member – Education Committee (3-year term) 2019-22*
 - 5) Vascular Endovascular Surgery Society (VESS)
 - a. Resident Issues Committee 2014-15
 - b. Vascular endovascular surgery society- VESS Ambassador 2015
 - c. *Education Committee 2018-20 *
 - 6) American Board of Surgery-
 - a. *Exam Consultant for VSITE examinations- Submitted questions and participated in peer review process for Vascular Surgery in Service examinations – VSITE Consultant 2014-16*
 - b. *Associate Board Examiner -Certifying vascular surgery board exams 2016, 2019,2020
 - c. *Associate Board Examiner – Certifying General Surgery Examinations 2018-20
 - 7) South Asian American Vascular Surgery Society (SAAVS)

- a. Secretary-Treasurer: South Asian American Vascular Society - 2014
 - b. *President –Elect of South Asian American Vascular Society -2016-17
 - c. *President –South Asian American Vascular Society 2017-18
- 8) *Roadster 2 registry for Transcarotid artery revascularization –Publications committee 2017-18
- 9) PEER REVIEWER FOR:
- a) Annals of Surgery (2010)
 - b) Journal of Pediatric Surgery (2010)
 - c) *V- Score Modules for Vascular Surgery Trainees (2015-18)
 - d) *Journal of Vascular& Endovascular Surgery (2015-Present)
 - e) *Annals of Vascular Surgery (2017- Present)
 - f) *Indian Journal of Vascular and endovascular surgery (2017-Present)
 - g) *Journal of Vascular Surgery (JVS) 2018-Present
 - h) *Surgery open science (ongoing) 2019- Present
 - i) **Vascular “ journal (ongoing) 2019 –Present
- 10) Editorial Board
- a) *American Board of Surgery- VSCORE 2015-18 , 2020-23
 - b) *Vascular Endovascular Surgery Journal 2018-Present
 - c) *Annals of Vascular Surgery Journal 2018-Present
 - d) *Indian Journal of Vascular and Endovascular Surgery 2017-Present
- 11) ACGME -Accreditation Council for Graduate Medical Education
- a. *Committee on Milestones 2.0 for Vascular Surgery training programs Committee 2019-Present. This committee is tasked with developing milestones for vascular surgery programs across United States. I am the APDVS representative on this committee.
- 12) *BEST Trial – Recruitment and Retention Committee 2019

Invited Presentations: Local: Refereed/Peer reviewed

- 1) Floating thoracic aortic thrombus with visceral embolization- endovascular management: extending indications for thoracic stent grafts. Presented at Missouri Chapter American College of Surgeons meet 2008 Raghu Motaganahalli, Shachar Laks, Vito A Mantese
- 2) Risk factors for infectious complications with percutaneous vascular closure devices - Presented at Missouri Chapter American College of Surgeons meet 2008 Johnny Franco, Raghu Motaganahalli, Murtuzza Habeeb, Catherine M. Wittgen, and Gary J Peterson
- 3) Ultra sound enhanced thrombolysis for aortic graft occlusion- Poster presented at 42 nd Annual Meeting of Missouri Chapter-American College of Surgeons in June 2009 at St Louis- Raghu Motaganahalli, Murtuza Habeeb, Catherine Wittgen, Donald L Jacobs
- 4) Non-traumatic gas gangrene and colonic malignancy – An association to be aware of. – presented at Missouri Chapter American College of Surgeons meet 2008. Raghu L Motaganahalli, Duong Tu Jake S Laks, Vijai Chauhan, Donald J Kennedy, Eddy C Hseuh
- 5) Hepatic artery aneurysm rupture –Endovascular management and defining who is at rupture risk. Poster presented at 42 nd Annual Meeting of Missouri Chapter-American College of Surgeons in June 2009 at St Louis- Raghu Motaganahalli, Eric Luehr, Richard Pennell
- 6) Endovascular Management of ruptured small thoracic and abdominal aortic aneurysms. Poster presented at 42 nd Annual Meeting of Missouri Chapter-American College of Surgeons in June 2009 at St Louis- Raghu Motaganahalli, David Johnson, Murtuza Habeeb, Catherine Wittgen, Brian Peterson
- 7) Hybrid Techniques in management of Complex aortic dissection in Marfan’s Syndrome - Poster presented at 42 nd Annual Meeting of Missouri Chapter-American College of Surgeons in June 2009 at St Louis- Murtuza Habeeb, Raghu Motaganahalli, Brian Peterson
- 8) Should endovascular therapy be the treatment of choice for Ruptured aortic aneurysms? Presented at the American College of Surgeons, Indiana state chapter May 2010-Indianapolis Raghu L Motaganahalli
- 9) Endovascular options for vascular trauma- Presented at the Annual meeting of American College of Surgeons –Indiana Chapter, Indianapolis- April 2011. Raghu L Motaganahalli

- 10) Visceral arterial aneurysms- Annual meeting of American College of Surgeons – Indiana Chapter, April 2011 Beejay Feliciano, Alan Sawchuk, Micheal Dalsing, Raghu Motaganahalli.
- 11) Endovascular therapy for aorto caval fistula – Dr. Alok Gupta, Raghu Motaganahalli, American College of Surgeons, Indiana Chapter, Indianapolis- 2012
- 12) Sunshine Act – Presented at the American College of Surgeons, Indiana Chapter, Chicago- April 2013
- 13) Risk of Malignancy associated with routine CT scanning for surveillance of aortic endografts- JK Berman day, Indiana University -2013. Dr. Angela Martin, Michael Dalsing, Raghu Motaganahalli
- 14) Physician Quality Reporting System-PQRS presented at the American College of Surgeons, Indiana Chapter. Indianapolis-2014
- 15) *Integrating Transcervical carotid artery stents, Midwest Vascular Collaborative – Vascular Quality Initiative Nov 2017
- 16) *Arteriovenous Access for Dialysis – Home dialysis program CME 2017
- 17) *Transcervical Carotid Artery Revascularization – Vascular surgery update , Indiana University health CME for Primary Physicians 2017
- 18) *Guidelines for managing Chronic Lower extremity ischemia – Grand rounds at Union Hospital Terre haute Nov 2017
- 19) *Traumatic Superior Mesenteric Artery-Vein AV fistula. Endovascular Management. Presented at the Indiana Chapter of American College of Surgeons, Carmel Indiana April 2019 Jane Liao, Keisin Wang. Mike Dalsing, Gary Lemmon, Raghu Motaganahalli
- 20) *Outcomes of Transcarotid Artery Angioplasty /stent in high risk patients – Indiana Chapter American College of Surgeons, Annual Meeting, Carmel Indiana April 2019. Nick Donde, Keisin Wang, Elliot Yee, Jane Liao, Andres Fajardo, Raghu Motaganahalli

Regional: Refereed/ Peer reviewed

- 1) “Chronic Pancreatitis” at the Annual Conference of the ASI-Karnataka State Chapter, 1994. It was appreciated as the Best Paper presented by a Post- Graduate Resident. Raghu L Motaganahalli, Mohan LN, Arun B Kilpadi

- 2) Deep Venous Thrombosis in burn surgery patients- need for active surveillance and management. Presented at the 2007 -Midwestern burn conference, Minneapolis-Minnesota. Raghu L Motaganahalli, Jonathan Pollock, Peter Rumbolo, Micheal Smock.
- 3) Endovascular infrainguinal interventions with embolic protection device- who requires it? Presented at the 2008 Midwestern Vascular Surgery Society Annual Meeting, September 11-13, 2008 at Madison, Wisconsin. Raghu Motaganahalli, Donald L Jacobs, Brian G Peterson, Murtuzza Habeeb, Catherine M. Wittgen, Gary J Peterson.
- 4) Retrograde embolization of previously excluded, expanding internal iliac aneurysm –Hybrid technique using gluteal artery access. Presented at the 2008 Midwestern Vascular Surgery Society Annual Meeting, September 11-13, 2008 at Madison, Wisconsin. Raghu L Motaganahalli, Scott G Westfall, Richard L Pennell, Vito A Mantese, Ketan Desai
- 5) Revisiting bovine carotid artery grafts for dialysis access early and mid-term results of a comparative analysis using PTFE and bovine carotid artery grafts. Presented at the 2008 Midwestern Vascular Surgery Society Annual Meeting, September 11-13, 2008 at Madison, Wisconsin. Raghu L Motaganahalli, James R Mark, Pawel T Dyk, Melissa Grammer, Paul G Garvin
- 6) Retrospective analysis of fate of external carotid artery after carotid angioplasty and stenting. Poster presented at Midwestern Vascular meeting in Chicago, September 10-12th 2009. Raghu Motaganahalli, Steve Mapula, Rebecca Grinsell, Vito Mantese, Gary Peterson, Donald Jacobs, Richard Pennell
- 7) Endovascular therapy for complex renal arteriovenous fistulae- Presented at Midwestern Vascular Society meeting in Chicago September 10-12th 2009. Raghu Motaganahalli, Murtuza Habeeb, Brian Peterson, Catherine Wittgen, Gary Peterson, Donald Jacobs
- 8) Improving the care for Ruptured aortic aneurysms- Does having a protocol translate to improved performance: Post implementation analysis – Poster presented at the Midwestern Vascular Surgery Society, Indianapolis – September 2010: Raghu Motaganahalli, Cynthia Richardson, Michael Dalsing
- 9) Endovascular repair of aorto iliac aneurysms using snorkel technique for preservation of pelvic flow. Early and Midterm Results of a collective review –presented at Midwestern vascular surgery society, Indianapolis-September 2010: Raghu Motaganahalli, Gary W Lemmon, Alan Sawchuk, Michael Murphy, Michael Dalsing

- 10) Extravascular closure devices for repair of inadvertent subclavian artery catheterization during central venous cannulation. Poster presentation at Mid-Western Vascular Surgery Society –September 2011 Chicago: Raghu Motaganahalli, Angela Martin, Michael Dalsing
- 11) Estimating the risk of radiation associated malignancy in patients undergoing routine computed tomography for surveillance of aortic endografts using BEIR VII model- Is it time to redefine the follow-up protocol. Presentation at MidWest Vascular Surgery Society – September 2011 Chicago. Raghu Motaganahalli, Angela Martin, Michael Dalsing
- 12) Femoral-femoral stabilizing wire for embolization of the internal iliac artery. Presentation at Mid-Western Vascular Surgery Society –September 2011 Chicago: Raghu Motaganahalli, Connie Zastrow, Jon Matsumura
- 13) Vascular Injuries due to Dog bites. Presentation at MidWest Vascular Surgery Society, September 2012 Milwaukee. Drs. George Akingba, Andrea Jester, Brian Rapp, Raghu Motaganahalli, Andres Fajardo, Michael Dalsing, Michael Murphy
- 14) Radiation exposure issues for vascular surgeons- Mid-Western Vascular Surgery Society conference 2013, Chicago
- 15) Natural History of bilateral internal carotid artery occlusions- Presentation at MidWest Vascular Surgery Society September 2013, Chicago. Drs. Manisha Patel, Michael Dalsing, Raghu Motaganahalli
- 16) Stent assisted coil embolization for complex vascular pathologies – Mid-Western Vascular Surgery Society conference 2013, Chicago Drs. Raghu Motaganahalli, Hao Vu, Alan Sawchuk, Joel Corvera, Donald Jacobs
- 17) Outcomes of endovascular therapy for cryo graft related complications – Mid-Western Vascular Surgery Society conference 2013, Chicago. Drs. Adam Gracon, Alan Sawchuk, Gary Lemmon, Michael Dalsing, Raghu Motaganahalli
- 18) Single center experience with FDA approved fenestrated grafts for the treatment of pararenal abdominal aortic aneurysms. Drs. Erin Farlow, Andres Fajardo, Raghu Motaganahalli, Gary Lemmon, Michael Dalsing, Michael Murphy, Dolores Cikrit, Alan Sawchuk- Mid-Western Vascular Surgery Society conference, Chicago 2013

- 19) Quantifying Excess Cost Associated with Readmission for Surgical Site Infection Following Open Vascular Procedures Involving the Lower Extremity .Thomas S. Easterday, Adam S.A. Gracon, MD, Daniel Weber, MD, James Slaven, Gary Lemmon, MD and Raghu Motaganahalli, MD –MWVSS Iowa city 2014
- 20) Smoking Cessation Strategies: Perceptions and Practice Patterns of Vascular Physicians of a Regional Vascular Collaborative. Bradford Kim, MD, Tiffany Chang, MD, Lisa Saleemi, RN, Michael C. Dalsing, MD, Gary W. Lemmon, MD and Raghu L. Motaganahalli, MD- MWVSS Iowa city 2014
- 21) Clinical Characteristics and Mid-Term Outcome of Abdominal Aortic Aneurysm Repair with the AFX Device in Patients with Friendly and Hostile Neck Anatomy. Raghu Motaganahalli, MD, Huey B. McDaniel, MD, M. Burrell Welborn, MD, Bradley Kim, MD, Alan Sawchuk, MD and Kenneth Ouriel, MD- MWVSS Iowa city 2014
- 22) Evaluation of Radiation Exposure and Contrast Usage with Expanded Experience of Fenestrated Grafts Andres Fajardo, Erin Farlow, MD, Alan Sawchuk, MD and Raghu Motaganahalli, MD- MWVSS Iowa city 2014
- 23) An Observational Study of Abdominal Compartment Syndrome after Ruptured Abdominal Aortic Aneurysm Raghu L. Motaganahalli, MD, Cynthia Richardson, RN, Alok Gupta, MD, Andres Fajardo, MD, George Akingba, MD, Michael P. Murphy, MD, Dolores Cikrit, MD, Alan P. Sawchuk, MD, Gary W. Lemmon, MD and Michael C. Dalsing, MD- MWVSS Iowa city 2014
- 24) Endovascular Repair of Pararenal Abdominal Aortic Aneurysms (AAA) using Fenestrated Devices after Failed Open and Endovascular Repairs: Our Initial Experience. Erin C. Farlow, MD, Alan Sawchuk, MD, Raghunadan L. Motaganahalli, MD and Andres Fajardo, MD - MWVSS Iowa city 2014
- 25) *Preoperative Duplex Characteristics Predict Successful Use of V-Wing Anjan Talukdar, MD, S. Keisin Wang, MD, Alok Gupta, MD, John Powelson, Michael Dalsing, MD, Gary Lemmon, MD, and Raghu Motaganahalli, MD. Presented at the MWVSS meeting 2015 Chicago
- 26) *Failure Mode Analysis of the Endologix Endograft Gary W. Lemmon, MD, Ben Aumiller, MD, Michael C. Dalsing, MD, Raghu L. Motaganahalli, MD, Demetria Bayt, Bradford Kim, MD, Tiffany Chang, MD. Presented at the MWVSS meeting 2015 Chicago

- 27) *Dysphagia Lusoria: Aberrant Right Subclavian Artery Transposition to Carotid Artery
Raghu L. Motaganahalli, MD, Victor Njoku, MD, Alok Gupta, MD, Anjan Talukdar, MD,
Adam Gracon, MD, Andres Fajardo, MD, Michael C. Dalsing, MD. Presented at the
MWVSS meeting 2015 Chicago
- 28) *Use of Bovine Pericardial patch as tube conduits in Vascular reconstruction- Presented at
MWVSS meeting 2015 Chicago: Victor Njoku, Raghu Motaganahalli
- 29) *Comparative Analysis of Rivaroxaban and Coumadin in Lower Extremity Arterial
Interventions- Poster Presented at MWVSS meeting –Chicago 2015: Anjan Talukdar, Raghu
Motaganahalli
- 30) *Clinical Debate- Aorto Iliac artery occlusive disease best treated by endovascular therapy-
Presented at MWVSS meeting 2015 Chicago
- 31) *Use of FDG-PET CT for identifying vascular graft and denovo infections. Richard Denny,
Mike Dalsing, Raghu Motaganahalli - Presentation at MWVSS 2016 September, Columbus-
Ohio
- 32) *Renal Artery Imaging and flow characteristics predicting success of intervention- Alan
Sawchuk, Witney Yu, Raghu Motaganahalli, Mike Dalsing - Presentation at MWVSS 2016
September, Columbus – Ohio
- 33) *Does Carotid interventions help cognitive function- Invited presentation at New Horizons
Program –MWVSS 2016 Columbus, Ohio
- 34) *Endovascular therapy has made Aorto bi femoral operation a historical one. Debate at
MWVSS meeting 2017
- 35) *Osteopontin Is Elevated in AAA and May Drive Disease Progression Shihuan Keisin Wang,
MD, Linden Green, PhD, Praveen Kusumanchi, PhD, Andres Fajardo, MD, Raghu
Motaganahalli, MD, Michael Murphy, MD. MWVSS 2017 Chicago
- 36) *Pre- and Post-Transcarotid Artery Revascularization Characteristics of Common Carotid
Artery: A Post Hoc Analysis of ROADSTER-1 Trial Raghu L. Motaganahalli, MD, Michael
Jaff, DO, Christopher J.Kwoleck, MD, Sumaira MacDonald, MD, Richard Rudey, PhD,
Richard P. Cambria, MD. 1Surgery, Presented at MWVSS 2017 Chicago
- 37) *Metformin does not reduce inflammation in AAA and at-risk patients . Dr.Wang SK,
Gutwein A, Green L, Gupta A, Fajardo AC, Motaganahalli R, Murphy M. Accepted for
presentation at Florida Vascular Society April 2018.

- 38) *Open versus endovascular repair for ruptured abdominal aortic aneurysm using anatomical criteria. Motaganahalli, Liang T, Fajardo, Timsina, Acher CW, Dalsing MD, Dimusto P. Presented at the Midwestern Vascular Surgery Society , St Louis 2018
- 39) *TCAR, TFCAS are better options for recurrent carotid stenosis. Debate at Midwestern Vascular Surgery Society St Louis, Sep 2018. Raghu Motaganahalli
- 40) *Noninvasive estimation of renal artery stenosis Presented at Midwestern Vascular Surgery Society St Louis Sep 2018 Whitney Yu, Raghu Motaganahalli, Alan Sawchuk
- 41) *Hyperspectral imaging compared to ABI and toe pressures for evaluating lower extremity arterial disease. Presented as poster at Midwest Vascular Society Meeting St Louis 2018 Justin King, Katherin Leckie, Raghu Motaganahalli
- 42) *Endovascular therapy for spontaneous ilio-iliac AV fistula due to iliac aneurysm rupture with multi organ dysfunction. Mohammed Rishi, Andi Peshkepija, Justin King, Keisin Wang, John Maijub, Alok Gupta, Andres Fajardo, Raghu Motaganahalli. Presented at the 43rd Midwest Vascular Surgery Society meeting, Chicago September 2019
- 43) *The MicroRna cluster of Mir-15a,27-a and 92-a are associated with diminished IL-10 levels and decreased frequency and immune suppressor function of type-1 regulatory T cells in patients with Abdominal Aortic Aneurysms. Justin King, Linden Green, Katherine Leckie, Keisin Wang, Praveen Kusumanchi, John Maijub, Andres Fajardo, Raghu Motaganahalli, Michael P Murphy . Presented at the 43rd Midwest Vascular Surgery Society meeting, Chicago September 2019
- 44) *Allogenic Mesenchymal Stem Cells induce Regulatory T-Cells and Suppress Aneurysm inflammation: Interim results of the Phase 1 ARREST trial. Katherine Leckie, Linden Green, Justin King, Keisin Wang, Raghu Motaganahalli, Andres Fajardo, Michael P Murphy, John G Maijub. Presented at the 43rd Midwest Vascular Surgery Society meeting, Chicago September 2019
- 45) *The Duration of blood flow reversal during transcarotid artery revascularization (TCAR) does not affect outcomes. Alex King, Norman Kummins, Jae Cho, Jeff Jim, Raghu Motaganahalli, Jeffrey Apple, Mazin Foteh, Vikram Kashyap. Presented at the 43rd Midwest Vascular Surgery Society meeting, Chicago September 2019
- 46) *Computational Methods to Automate the Initial Interpretation of Lower extremity arterial Doppler and Duplex Carotid Ultrasound. Xiao Luo, PhD, Lena Ara, Haoran Ding, Dave

Rollins, Raghu Motaganahalli, Alan P. Sawchuk, MD. Accepted for presentation at the Midwestern Vascular Surgery Society meeting 2020

- 47) *Incidence and Factors predicting macroscopic filter debris during Transcarotid artery revascularization. Keisin Wang, Sarah Severance, Justin King, Andres Fajardo, Alok Gupta, Raghu Motaganahalli. Accepted for presentation at Midwest Vascular Society Virtual meeting in Sep 2020
- 48) * The Effect of Regulatory Mandates on Opiate Prescription Following Dialysis Access Procedures Author Block: Michael Ingram, MD , Andi Peshkepija, MD , Humraaz Samra, MD , Sarah E. Severance, MD , Ashley Gutwein, MD , Mohammed Tipu Rishi, MD , Keisin Wang, MD , Raghu L. Motaganahalli. Accepted for poster presentation at the Virtual Midwest Vascular Surgery meeting in September 2020.

National: Refereed

- 1) "Factors determining the Post-Operative Ventilatory support in General Surgical patients' presented at the 42nd International Congress of Surgeons meet held at Kanyakumari, India 1996. Raghu L Motaganahalli, Mohan LN, Kilpadi AB
- 2) "Progression Technique for repair of traumatic posterior urethral strictures' presented at the Asian Association of Pediatric Surgeons' Conference Bombay, India, 1997. Ashley J d' Cruz, Raghu L Motaganahalli, Padmalata SK
- 3) "Coronary & Metabolic risk factors in patients with peripheral arterial occlusive disorders "-- Presented at the Annual meeting of the Vascular Society of India, Hyderabad, 1999 Raghu L Motaganahalli, Johari AS, Gupta PC, Pinjala RK
- 4) "Quality of life in peripheral vascular patients" presented at the annual meeting of the Vascular Society of India, Hyderabad, 1999. Johari AS, Raghu L Motaganahalli, Gupta PC, Pinjala RK
- 5) "Extra anatomical Bypass for upper limb secondary hemorrhage" Presented at the 6th Annual meeting of the Vascular Society of India, 1999. Raghu L Motaganahalli, Johari AS, Gupta PC, Pinjala RK
- 6) "Visceral Vascular problems - Therapeutic options" presented at the Annual meeting of the Vascular Society of India, Pune – 2001 Raghu L Motaganahalli, Vivekanand, Suresh K.R. Bhagwan N.K

- 7) "Paget Schrotter's Syndrome - Multi modality approach "presented at Annual meeting of the Vascular Society of India, Pune – 2001 Raghu L Motaganahalli, Vivekanand, Suresh K.R
- 8) "Carbon dioxide Angiography. Initial experience", presented at the Annual meeting of the Vascular Society of India, Kodikanal, and October 2002. Raghu L Motaganahalli, Vivekanand, Suresh K.R.
- 9) "Genicular Arterial Bypass for critical limb ischemia." Presented at the Annual meeting of the Vascular Society of India, Kodikanal, and October 2002. Raghu L Motaganahalli, Vivekanand, Suresh K.R.
- 10) "Podiatry Services in a Vascular Unit "presented at the Annual meeting of the Vascular Society of India, Kodikanal, and October 2002. Raghu L Motaganahalli, Vivekanand, Suresh K.R.
- 11) Outcomes of Endovascular AAA Repair in Patients with Hostile Neck Anatomy Using Adjunctive Balloon Expandable Stents. Donald L. Jacobs, M.D., Raghu Motaganahalli, M.D., Daniel E. Cox, M.D., Catherine M. Wittgen, M.D., Gary J. Peterson, M.D. Society for Clinical Vascular Surgery 33rd Annual symposium on Vascular surgery 2005
- 12) True Lumen Re-Entry devices to facilitate sub intimal angioplasty and stenting of chronic total occlusions - Donald L. Jacobs, Raghu L. Motaganahalli, Daniel E. Cox, Catherine M. Wittgen, and Gary J. Peterson. Society of vascular surgery -Vascular Surgery Annual Meeting –2005
- 13) Deep Venous Thrombosis in Burn Patients: A Problem That Won't Go Away. Poster presented at American Burn Association-40th Annual Meeting at Chicago 2008. Jonathan Pollack, Michael Smock, Peter Rumbolo, Raghu.L. Motaganahalli, MD. St. John's Mercy Medical Center, St Louis, MO
- 14) Intra operative SSEP monitoring during carotid endarterectomy- Is it enough? Presented at SVS- Peripheral Vascular Surgery Society Spring Meeting in San Diego 2008. Raghu L Motaganahalli, Richard L Pennell, Christopher P Pennell, Vito A Mantese, Scott G Westfall, Joseph J Hurley.
- 15) "Should We Abandon Dysfunctional Arteriovenous Fistulas? - Alternative Technique to Vein Transposition by Conversion to Arteriovenous Graft with Inflow from Fistula". Description and Results of a New Surgical Procedure. Presented at the 2008 SVS Vascular

Annual Meeting, June 5-8, 2008 at the San Diego Convention Center, San Diego, CA. Raghu L Motaganahalli, Pawel T Dyk, James R Mark, Melissa Grammer, Paul G Garvin

- 16) Endovascular treatment of failing dialysis access; early experience of covered stents versus angioplasty alone. Poster presented at the February 2009 American Society of Diagnostic Interventional Nephrologists annual meeting in San Antonio –Texas. Habeeb MH, Motaganahalli RL, Alvarez A, Kalonda F, Correa JC, Jacobs DJ, Peterson BG
- 17) Improving the process of care for ruptured aortic aneurysms- results from an institution-based protocol – Electronic Poster presented at Society for Clinical Vascular Surgery conference in Orlando, Florida – March 2011: Raghu Motaganahalli, Cynthia Richardson, Michael P Murphy, Alan Sawchuk, Gary W Lemmon, and Michael Dalsing.
- 18) Door to treatment time. Identifying opportunities for process improvement. Results from an institution-based protocol caring for ruptured aortic Aneurysm-Presented at the Society for Vascular Surgery – Peripheral Vascular Surgery Society joint session at Annual Vascular Meeting, Chicago – June 2011: Raghu Motaganahalli, Michael P Murphy, Alan Sawchuk, Gary W Lemmon, George Akingba, Andreas Fajardo, Cynthia Richardson, Dolores Cikrit, and Michael Dalsing.
- 19) Estimating risk of Leukemia associated with routine CT scan surveillance after endovascular aortic aneurysm repair- Poster Presented at the Society for Vascular Surgery, Vascular Annual meeting, Washington DC 2012: Raghu Motaganahalli, Angela Martin, James Slaven, Michael Dalsing.
- 20) TEVAR Results When Used Selectively with IFU Compliant Landing Zones. Alan P. Sawchuk, MD, Luona Sun, MD, Raghu Motaganahalli, MD, Andres Fajardo, MD, Gary Lemmon, MD, Michael Dalsing, MD. Poster presented at the 41st SCVS meeting, Florida 2013
- 21) The Excess cost of unplanned thirty-day readmission following vascular surgery. Poster presentation at Society for vascular surgery Boston June 2014. Drs. Adam Gracon, Thomas Easterday, Daniel Weber, James Slaven, Gary Lemmon, Raghu Motaganahalli. This poster was awarded the second prize.

- 22) Does mode of transportation impact the outcome of ruptured abdominal aortic aneurysms- Presented at Veith Symposium –New York November 2014: Raghu Motaganahalli, Cynthia Richardson, Mike Dalsing
- 23) Abdominal Compartment syndrome after Ruptured abdominal aortic aneurysm: Presented at Veith Symposium- Newyork, November 2014- Brad Kim, Mike Dalsing, Raghu Motaganahalli
- 24) Role of Antiplatelets and anticoagulants in patients with bilateral carotid artery occlusions; Presented at Veith Symposium, November 2014- Emily Snyder, Mike Dalsing, Raghu Motaganahalli
- 25) *Treatment and Outcomes of Aortic Endograft Infection – Presented at SVS –Vascular Annual Meeting in 2015Chicago.: Audra Duncan, Matt Smeds, Mike Harlander Locke, Peter Lawrence, Sean Lyden, Javairiah Fatima, Mark Morasch, Raghu Motaganahalli, Peter Nelson et al
- 26) *Gender Differences in Patients Undergoing Fenestrated Aortic Aneurysm Repair Christopher J. Goltz, Andres Fajardo, Michele L. Taubman, Erin C. Farlow, Ravi K. Veeraswamy, Raghu L. Motaganahalli, Alan P. Sawchuk, Yazan Duwayri. Poster Presented at SVS-VAM Chicago2015
- 27) *Outcomes Following Fenestrated Aortic Aneurysm Repair: A Single Center Experience Christopher J. Goltz, Andres Fajardo, Erin C. Farlow, Alan P. Sawchuk, Raghu L. Motaganahalli. Poster Presented at SVS-VAM Chicago 2015
- 28) *Carotid Artery Aneurysms- Video Presentation at the American College of Surgeons Meeting 2015 October Chicago.
- 29) *Multi-institutional experience with management of adventitial cystic disease – Drs Raghu Motaganahalli, Matthew Smeds, Michael Harlander-Locke, Peter Lawrence et al for Vascular Low frequency disease consortium(VLFDC). Presented at Society for Vascular Surgery-Vascular Annual Meeting in Washington DC. June 2016
- 30) *Hypothenar Hammer syndrome Repair – Drs Emily Serafin, Joshua Adkinson, Alok Gupta, Andres Fajardo, Michael Dalsing, Raghu Motaganahalli . Video presentation to be presented at plenary session of Society for Vascular Surgery -Vascular Annual Meeting in San Diego 2017

- 31) *Implications of Clostridium Difficile infection in Vascular Surgery Patients – Drs Emily Serafin, Kristen Kelly, Yun Wong, Douglas Webb, Larry Stevens, Michael Dalsing, Raghu Motaganahalli . Poster session of Society for Vascular Surgery- Vascular Annual Meeting in San Diego 2017
- 32) *The Impact of Different Treatment Modalities on Recalcitrant Venous Ulcer Healing – Drs Peter F. Lawrence, MD; Eric Hager, MD; Michael P. Harlander-Locke, MPH; Lowell Kabnick, MD; Naveed Saqib, MD; Susan Pouliot, RN; Misaki Kiguchi, MD; Raghu L. Motaganahalli, MD; Sotero Peralta, MD; Robert Attaran, MBChB . Poster session of Society for Vascular Surgery- Vascular Annual Meeting in San Diego 2017
- 33) *Mid-Term Results of a Novel Endovascular Solution for Managing Limitations of Fenestrated Endovascular Aneurysm Repair. Drs Emily Serafin, Alan Sawchuk, Andres Fajardo, Raghu Motaganahalli. Interactive Poster session of Society for Vascular Surgery- Vascular Annual Meeting in San Diego 2017
- 34) *Ethnic Minorities with Critical Limb Ischemia Derive Equal Amputation Risk Reduction from Autologous Cell Therapy Compared to Caucasians. Drs Keisin Wang, Linden Green, Michael Wilson, Raghu Motaganahalli, Alok Gupta, Andres Fajardo, Michael Murphy. Poster session at the Society for Vascular Surgery , Vascular Annual Meeting in San Diego 2017
- 35) *Poor adherence to anticoagulation protocol during emergency transfer of critical limb ischemia patients is associated with limb loss. Presented at VESS winter meeting in Vail CO. 2018
- 36) *Poor Outcome with Cryo grafts for lower extremity when used for LE infections .Presented at VESS meeting in Vail CO, 2018
- 37) * Zenith Fenestrated endovascular repair for managing complications of open /endovascular repair of abdominal aortic aneurysms. Wang SK, Sawchuk, Motaganahalli RL, Fajardo. Presented at SCVS meeting in Las Vegas in March 2018

- 38) *Body Mass index association with RAAA. Tiffany Liang, Lava Timsina, Andres Fajardo, Paul Dimusto, Raghu Motaganahalli. Poster presentation at SCVS meeting in Las Vegas March 2018
- 39) *Transcarotid artery revascularization (TCAR) vs Transfemoral carotid artery stenting (TFCAS) in the SVS Vascular Quality Initiative. Malas, Aridi, Wang, Kashyap, Motaganahalli, Jorgensen, Cronenwett, Schermerhorn. Presented at the SVS- VAM. Boston 2018
- 40) * Outcome of Transcarotid revascularization with dynamic flow reversal (TCAR) versus Carotid Endarterectomy (CEA) in the TCAR surveillance project. Malas MB, Dakour-Aridi H, Wang GJ, Kashyap VS, Motaganahalli RL, Eldrup-Jorgensen J, Cronenwett JL, Schermerhorn ML. Presented at Vascular Annual Meeting. National Harbor June 2019
- 41) *Transcarotid artery revascularization -Tips and Tricks to prevent carotid dissection. Raghu Motaganahalli SVS- Vascular Quality Initiative session (VQI) at the VAM meeting. National Harbor 2019
- 42) *Management of Iatrogenic Vascular Trauma – Raghu Motaganahalli. Post Graduate Course on Vascular Trauma at – VAM, National Harbor June 2019.
- 43) *Analysis of the early outcomes in the ROADSTER-2 Clinical Trial of Transcarotid artery revascularization in patients with significant carotid artery disease. Kashyap V, Motaganahalli R, Eckstein, HH, Jim J, Lorenzo J, Schnider P. Presented at the late breaking clinical trials session at SVS-VAM . National Harbor June 2019
- 44) *Propensity Matched Analysis of Transcarotid revascularization versus Carotid Endarterectomy. S Wang, E J Yee, LR Timsina, S Ruiz- Herrera , JL Liao, NN Donde, AC Fajardo, RL Motaganahalli. Presented at Academic Surgical Congress January 2020 Florida
- 45) *Treatment of Carotid Restenosis with TCAR. Wang S, King A, Kashyap V, Foteh M, Ambani R, Fajardo AC, Apple J, Maijub J, Murphy MP, Motaganahalli R. Presented at Academic Surgical Congress January 2020 Florida

- 46) *Heat therapy reduces blood pressure and circulating endothelin-1 levels, but does not improve walking performance or vascular function in patients with symptomatic peripheral artery disease. Jacob Monroe, Jacob C. Monroe, Chen Lin, Susan M Perkins, Yan Han, Raghu L Motaganahalli, Bruno T. Roseguini. American Physiological Society , Experimental Biology 2020 , San Diego April 2020
- 47) *Clinical and Laboratory characteristics of patients with COVID-19 Infection and 2 Deep Venous Thrombosis. **Raghu L. Motaganahalli MD FACS** , Rajat Kapoor MD.MBA , Lava R.Timsina PhD, Michael D.Ingram MD, Ashley R.Gutwein MD,David Rollins RVT, Ashley Meagher MD . Presented at the Society for Vascular Surgery online program June 2020.

International: Refereed

- 1) “Vascular Trauma – a review of 132 cases” presented at Asian Chapter of International Association of Angiology, New Delhi, and December 1999.Gupta PC, Raghu L Motaganahalli, Pinjala RK
- 2) Treatment of chronic total occlusions with true luminal reentry technique “– Raghu L Motaganahalli, Donald L Jacobs, Gary J Peterson, Catherine M Wittgen, Daniel E Cox. Presented in the Asian vascular society Annual meeting in Bangalore, India 2004.
- 3) “Outcomes of EVAR with proximal balloon expandable stents in hostile neck anatomies “. Raghu L Motaganahalli, Donald L Jacobs, Gary J Peterson, Catherine M Wittgen, Daniel E Cox. Presented in the Asian vascular society Annual meeting in Bangalore, India 2004.
- 4) *TCAR Technique and results – Vascular Society of India , Hyderabad -India ,October 2019
- 5) *Abdominal Vascular Trauma management guidelines -Vascular Society of India, Hyderabad-India .October 2019
- 6) *Transcarotid Artery revascularization. Live case transmission / discussion. Endovascular Live 2020 New Delhi. February 2020

Invited presentation –Non –Refereed

Local

- 1) Early experience of covered stents versus angioplasty alone for treatment of failing dialysis access. Poster presented at the Resident poster competition – St Louis University, April 2009. Habeeb MH, Motaganahalli RL, Alvarez A, Kalonda F, Correa JC, Jacobs DJ, Peterson BG. Awarded third prize in the poster competition.
- 2) Establishing Vascular telemedicine clinic – Presentations made to Witham health system, Putnam County Hospital 2010
- 3) Grand Rounds – Internal Medicine and Hospitalists at Wishard Memorial Hospital – Endovascular options for Lower extremity revascularization November 2010
- 4) Grand Rounds for Primary Care Physicians at American Health Network – Avon, Indiana – Vascular Surgery Update March 2011
- 5) Grand rounds – IU West Hospital primary care physicians outreach presentations- Lower extremity ischemia –therapeutic options April 2011
- 6) Presentation at the South Bend vascular specialists meeting 2012
- 7) Grand rounds for Primary care physicians at American Health Network, Avon, Indiana – Guidelines on Carotid disease management – 2012
- 8) Grand Rounds at Ball Memorial Hospital – Management of Aortic aneurysm, choosing the correct option, Case study- 2012
- 9) Grand rounds Department of Surgery– An update on Carotid Angioplasty and stenting. Department of Surgery Grand rounds. September 2011
- 10) Grand Rounds Department of Surgery 2012- Update on Ruptured Abdominal aortic aneurysms
- 11) *Grand Rounds- Department of Cardiology 2016 – Carotid Artery Disease –evolving treatment options
- 12) *Grand Rounds – IUHP Methodist Hospitalists May 31st 2016- Carotid Artery Occlusive Disease Management
- 13) *Grand Rounds for Primary physician’s outreach October 2016 – American health network –Avon Examining treatment options for Carotid Artery occlusive

- 14) *Presentation on Carotid Disease Options at Vascular Quality Initiative(VQI) MVC Spring meeting May 12th 2016
- 15) *Presentation at Academy of Surgical technologists – Basics of Endovascular therapy for Operating room technicians. September 2016 at Ivy tech College
- 16) *Outcomes of Transcervical carotid artery stenting –IU experience presented at the Current concepts in Cardiovascular care .Evansville, Indiana March 9th 2018
- 17) *Lower extremity percutaneous interventions – Indiana University 4th annual vascular symposium for primary care physicians. April 27th 2018
- 18) *Guidelines for managing lower extremity arterial insufficiency – IU Methodist Hospitalist grand rounds , October 2nd 2018
- 19) *Post-operative Management of Vascular patient – IU Methodist Hospitalist grand rounds , March 2019
- 20) *Endovascular Surgery for Surgical Technologist – Assembly of Surgical technologists, Indiana Assembly. September 2019

National: Non-Refereed

1. Fate of External Carotid arteries after carotid angioplasty and stenting. Presented at the 16th National Non-Invasive diagnosis of vascular Disease symposium in February 2009 at St Louis –Missouri. Raghu L Motaganahalli, Richard C Pennell
2. Predictors for deep venous thrombosis- Presented at the 17th National noninvasive symposium at St Louis, MO March 2011. Raghu Motaganahalli, Michael Dalsing
3. Fenestrated endografts – Complex coding cases at Society for vascular surgery conference in Orlando, Florida –March 2011 Beejay Feliciano, Michael Dalsing, Andreas Fajardo, George Akingba, and Raghu L Motaganahalli
4. What criteria should we use for surveillance of infra inguinal stents – Presented at the 18th National noninvasive symposium at St Louis, MO March 2013
5. Stem cell therapy and noninvasive studies – Presented at the 18th National noninvasive symposium at St Louis, Mo 2013
6. Iatrogenic Vascular Injuries-Use of Duplex Ultrasonography in Evaluating and Management -19th National Noninvasive symposium- St Louis, MO April 2015

7. Advantages of Duplex examination in Surveillance of Aortic Endografts – Presented at National Noninvasive symposium –St Louis MO April 2015
8. *Grand Rounds- University of Wisconsin ,Madison- Failure mode of Endovascular grafts for AAA 2015
9. *Presentation at APDVS April 2016 regarding V Score Curriculum
10. *Roadster-2 Investigators meeting, Advancing the options for Carotid artery disease – Transcervical carotid artery stenting at SVS- Vascular Annual meeting June 2016
11. *BEST-CLI investigators meeting – Challenges and Opportunities for enrollment in BEST CLI study at SVS- VAM June 2016
12. *Presentation/Moderate session at SVS Student outreach committee meeting 2016
13. *A Duplex Characteristics of Carotid Artery after Transcervical Carotid Artery Stents –St Louis Non-Invasive Symposium 2017
14. *APDVS Annual Meeting – Core Curriculum Committee report 2017
15. *3D-Dimensional Carotid Artery Imaging – St Louis Non-invasive Vascular Symposium 2017
16. *Transcarotid Artery Angioplasty and Stent. Ultrasonographic evaluation of carotid arteries. St Louis Non-Invasive vascular Symposium 2017
17. *APDVS Meeting – Core Curriculum committee report 2018
18. *Screening for AAA: Outcomes and lessons learned from developing a program. Presented at the 21st St Louis Vascular Symposium February 2019, St Louis -Missouri.
19. *Hyperspectral imaging and comparison with lower extremity arterial doppler studies – 21 st St.Louis Vascular Symposium 2019
20. *Career guidance for young vascular surgeons. Tips for successful academic and private practice careers in vascular surgery. Vascular endovascular surgery society meeting. Salt Lake City , UT February 2019
21. *Evidence for TCAR. Transcarotid Artery Revascularization Technique workshop at VAM , National Harbor June 2019
22. *Aortic and Vascular Emergencies- Outcomes and impact of a dedicated treatment protocol. Medical College of Wisconsin, Division of Vascular Surgery. December 2019

PUBLICATIONS:**TEACHING:****Book Chapters – Teaching Publications**

1. Deep venous interventions”- **Motaganahalli RL** and Dalsing MC in Vascular and endovascular surgery highlights 2009-10: Edited by Alun H Davies. Published by Health Press, ISBN-978-1-905832-77-4
2. “Vascular Malformations “- **Motaganahalli RL** in online publication of the layman’s handbook of venous disorders. Published by American Venous Forum 2010. www.veinforum.org.
3. “Succeeding in pediatric surgery EXAMINATIONS VOLUME 1”. Sawchuck AP, **Motaganahalli RL**, Lemmon GW in A complete resource for MCQs edited by Brice Antao and Michael S Irish. Published by Radcliffe publishing. ISBN 9781846193934
4. “Techniques for endovascular management of iliac artery occlusions”- **Motaganahalli RL**, Peterson BG in Techniques and Outcomes in Endovascular Surgery (North Western vascular symposium 2009) edited by Pearce, Morasch, Matsumura. Published by Greenwood Academic. ISBN-978-0-9763481-6-0
5. “Chronic total occlusions. Techniques and devices “Jacobs DL, **Motaganahalli RL** in Critical limb ischemia edited by Marc Bosiers, Peter Schneider. Published by Informa Health care, 2009. ISBN 978-1420081893
6. “Techniques to treat chronic total iliac artery occlusions “–**Motaganahalli RL**, Peterson BG.In Modern trends in vascular surgery- The Ischemic Extremity, New Findings and Treatment edited by William Pearce, Mark Morasch, Mark Eskandari, Heron Rodrigues. Published by Peoples Medical Publishing House –USA, Ltd. ISBN978-1-60795-050-9
7. “Vascular Ehlers –Danlos Syndrome “–Martin A, **Motaganahalli RL**. In Atlas of Vascular medicine edited by Dean, Satiani. Text book published by McGraw Hill, USA ISBN0071749543
8. ” Arterial Pseudoaneurysms” – Aumiller B, **Motaganahalli RL** ,In Atlas of vascular medicine Edited by Dean, Satiani. Text book published by McGraw Hill, USA ISBN0071749543

9. Tibial Arterial Occlusive disease Hari Kumar, **Raghu Motaganahalli**, Michael Murphy - Current Surgical Therapy by John Cameron, Andrew Cameron text book published by Mosby-Elsevier.
10. *Carotid-Subclavian Artery Bypass. The SCORE Portal. <http://www.surgicalcore.org.V-SCORE> module for vascular surgery – **Motaganahalli R**. Published by American Board of Surgery February 2019. Role : Primary Author
11. *Aorto iliac occlusive disease -Techniques for repair – Justin King, John Maijub, **Raghu Motaganahalli** in Exposures and Techniques in Vascular Surgery edited by Carlos Bechara, Jamal Hoballah ,Springer 2019 . Role : Senior and Corresponding Author
12. *Thrombolytic Therapy. Wang SK, Drucker NA, **Motaganahalli RL** .The SCORE Portal. <http://www.surgicalcore.org>. Published by American Board of Surgery July 2019. Role : Senior and Corresponding Author
13. * Nonthrombotic Hemodialysis Access Complications. Peshkepija A, King J, Gupta A, Khaidakova G, Alabi O, **Motaganahalli R** .The SCORE Portal. <http://www.surgicalcore.org>. Published by American Board of Surgery July 2019. Role :Senior and Corresponding Author
14. *Tibial angioplasty/stent. Ashley Gutwein, Alok Gupta, **Raghu Motaganahalli** the Score Portal <http://www.surgicalcore.org>. Published by American Board of Surgery, July 2019. Role : Senior and Corresponding Author
15. *Imaging/VLAB - CT/CT Angiography. King J, Peshkepija A, **Motaganahalli R**. The SCORE Portal. <http://www.surgicalcore.org>. Published by American Board of surgery, August 2019. Role : Senior and Corresponding Author
16. *Aortic Aneurysm – VESAP SVS- Self Assessment Review questions: **Raghu Motaganahalli**, published by Society for Vascular Surgery 2019. Role : Senior and Corresponding Author
17. *“Deep Venous Thrombosis “- Ashley Gutwein, **Raghu Motaganahalli RL** in online publication of the layman’s handbook of venous disorders. Published by American Venous Forum 2020. www.veinforum.org. Role : Senior and Corresponding Author

Referred -Journal Publications (Teaching)

18. Review of compensation plans for surgery residency and fellowship graduates seeking employment .Suraj Prakash, Bhagwan Satiani, Faisal Aziz and **Raghu L. Motaganahalli**. Glob Surg, 2015 doi: 10.15761/GOS.1000133 Volume 2(2): 102-106
19. *Endovascular treatment of an iatrogenic superior mesenteric arteriovenous fistula after Nissen fundoplication. Wang SK, Xie J, **Motaganahalli RL** .Vessel Plus 2018; 2:7. <http://dx.doi.org/10.20517/2574-1209.2018.15> .Role : Senior and Corresponding Author
20. *Temporizing amplatzer closure of an aorto-enteric fistula associated with a blind aortic stump via a translumbar approach S. Keisin Wang, Justin R. King, Ashley R. Gutwein, **Raghu L. Motaganahalli**, Andres Fajardo, Gary W. Lemmon published in Vessel Plus 2018;2:3 .Role : Contributing Author
21. *Use of PET-CT Imaging to Identify Femoral-Popliteal Stent Infection. Chen AM, Serafin EM, **Motaganahalli RL**. Vasc Endovascular Surg. 2019 May; 53(4):341-342. Doi: 10.1177/1538574419831479. Epub 2019 Mar 5. PubMed PMID: 30836853. Role : Senior and Corresponding Author
22. *Spontaneous Iliac Vein Rupture Due to May-Thurner Syndrome and Its Staged Management. Ingram M, Miladore J, Gupta A, Maijub J, Wang K, Fajardo A, **Motaganahalli R**. Vasc Endovascular Surg. 2019 May;53(4):348-350. Doi: 10.1177/1538574419831488. Epub 2019 Feb 19. PubMed PMID: 30782094. Role : Senior and Corresponding Author
23. *Management of Unusual Proximal Radial Artery Aneurysm. Umana L, Peshkepija A, Yee EJ, Liao J, Donde N, **Motaganahalli R** .Vasc Endovascular Surg. 2019 Jul;53(5):411-414. Doi: 10.1177/1538574419839261. Epub 2019 Mar 26. PubMed PMID: 30913991. Role : Senior and Corresponding Author
24. *Combined transbrachial and transfemoral strategy to deploy an iliac branch endoprosthesis in the setting of a pre-existing endovascular aortic aneurysm repair. Wang SK, Miladore JN, Yee EJ, Liao JL, Donde NN, **Motaganahalli RL**. J Vasc Surg Cases Innov Tech. 2019 Jun 29; 5(3):305-309. Doi: 10.1016/j.jvscit.2019.03.007. eCollection 2019 Sep. PubMed PMID: 31334406; PubMed Central PMCID: PMC6614596. Role : Senior and Corresponding Author
25. *Novel Application of Transcarotid Artery Stenting with Dynamic Flow Reversal for Treatment of Symptomatic Tandem Carotid Artery Lesions via an Ascending Aorta to

- Common Carotid Artery Bypass Graft. Donde NN, Wang SK, Liao JL, Fajardo AC, Hess P, **Motaganahalli RL**. *Vasc Endovascular Surg*. 2019 Aug 15:1538574419869569. Doi: 10.1177/1538574419869569. PubMed PMID: 31416402. Role : Senior and Corresponding Author
26. *Left Colic artery aneurysm – Endovascular Management. Albert Kota, Justin King, Katherine Leckie, Keisin Wang, **Raghu Motaganahalli**. Accepted for publication in *Journal of Vascular Surgery* 2020. Role : Senior and Corresponding Author
27. *Treatment of a Traumatic Aortic Bifurcation Injury with an Iliac Branch Endoprosthesis S. Keisin Wang, MD, **Raghu L. Motaganahalli**, MD, John G. Maijub, MD, Alan P. Sawchuk, MD PII: S2468-4287(20)30056-3 DOI: <https://doi.org/10.1016/j.jvscit.2020.04.002> *Journal of Vascular Surgery Cases and Innovative Techniques*. Role : Contributing Author
28. *Endovascular Therapy for Spontaneous Ilio-Iliac Arteriovenous Fistula Due to Iliac Artery Aneurysm Rupture with Multi-Organ Dysfunction. Rishi MT, Maijub J, Wang SK, Peshkepija A, King J, Gupta A, Fajardo A, **Motaganahalli RL**. *Vasc Endovascular Surg*. 2020 May 6:1538574420923833. PubMed PMID: 32372691. Role : Senior and Corresponding Author
29. *Endovascular Treatment of a Persistent Traumatic Deep Femoral Arteriovenous Fistula after Gunshot Injury. Liao JL, Wang SK, Dalsing MC, **Motaganahalli RL**. *Vasc Endovascular Surg*. 2020 Apr 15:1538574420918970. PMID: 32292134. Role : Senior and Corresponding Author
30. *Urgent Endovascular Repair of an Anterior Tibial Artery Aneurysm: Case Report and Literature Review. Mackenzie K. Madison , S. Keisin Wang , Justin R. King , **Raghu L. Motaganahalli**, Alan P. Sawchuk . Accepted for publication in *Vascular Endovascular Surgery Journal* in June 2020. VES -20-0295. Role : Contributing author, Manuscript review

RESEARCH/CREATIVE ACTIVITY

Refereed – Journal Publications

31. *Thermotherapy reduces blood pressure and circulating endothelin-1 concentration and enhances leg blood flow in patients with symptomatic peripheral artery disease. Neff D, Kuhlenhoelter AM, Lin C, Wong BJ, **Motaganahalli RL**, Roseguini BT. *Am J Physiol Regul*

- Integr Comp Physiol. 2016 Aug 1;311(2) PubMed PMID: 27335279 . Role: Site Co-Principal Investigator, Contributing Author and Research collaboration.
32. *Autologous bone marrow mononuclear cell therapy for critical limb ischemia is effective and durable. Liang TW, Jester A, **Motaganahalli RL**, Wilson MG, G ‘Sell P, Akingba GA, Fajardo A, Murphy MP. J Vasc Surg. 2016 Jun; 63(6):1541-5. PubMed PMID: 27021379. Role : Contributed to the study by recruiting patients to the study
 33. *TSG-6 is highly expressed in human abdominal aortic aneurysms. Wang SK, Xie J, Green LA, McCready RA, **Motaganahalli RL**, Fajardo A, Babbey CC, Murphy M. J Surg Res. 2017 Dec;220:311-319. Epub 2017 Aug 12. PubMed PMID: 29180197. Role : Contributed by providing recruiting patients and tissue samples to the study
 34. *Osteopontin may be a driver of abdominal aneurysm formation. Wang SK, Green L, Gutwein A, Babbey C, Gupta A, Fajardo AC, **Motaganahalli RL**, Murphy M. J Vasc Surg. 2018;68(6S):22S-29S. doi:10.1016/j.jvs.2017.10.068 Role : Contributed by recruiting patients and tissue samples to the study
 35. *Outcomes after Angiography with Sodium Bicarbonate and Acetylcysteine. Weisbord SD, Gallagher M, Jneid H, Garcia S, Cass A, Thwin SS, Conner TA, Chertow GM, Bhatt DL, Shunk K, Parikh CR, McFalls EO, Brophy M, Ferguson R, Wu H, Androsenko M, Myles J, Kaufman J, Palevsky PM; **PRESERVE Trial Group**. N Engl J Med. 2018 Feb 15; 378(7):603 PubMed PMID: 29130810. Role : Site Co-Investigator for the trial , contributed by recruiting patients to the study
 36. *Rationale and Design of the MOBILE Trial Investigating Autologous Bone Marrow Cell Therapy for Critical Limb Ischemia. Keisin Wang MD, Linden A. Green PhD, **Raghu L. Motaganahalli MD**, Michael G. Wilson PhD, Andres Fajardo MD, Michael P. Murphy MD. J.Vasc Surg. 2017 Jun; 65(6):1850-1857.e2. Epub 2017 Apr 5. PubMed PMID: 28390770. Role : Co –Investigator, Contributed by patient recruitment to the study
 37. *Ethnic minorities with critical limb ischemia derive equal amputation risk reduction from autologous cell therapy compared with whites. Wang SK, Green LA, Gutwein AR, Drucker NA, Babbey CM, Gupta AK, Fajardo A, **Motaganahalli RL**, Wilson MG, Murphy MP. J Vasc Surg. 2018 Mar 1. PubMed PMID: 29503004. Role : Contributed by patient recruitment to the study

38. *Description of human AAA by cytokine and immune cell aberrations compared to risk-factor matched controls. Wang SK, Green LA, Gutwein AR, Drucker NA, **Motaganahalli RL**, Gupta AK, Fajardo A, Murphy MP *Surgery*. 2018 Apr 28. PubMed PMID: 29716755. Role : Contributed by patient recruitment to the study
39. *Rationale and design of the CHAMP trial investigating the therapeutic mechanism of mesenchymal stromal cells in the treatment of critical limb ischemia. Wang SK, Green L, Drucker N, **Motaganahalli**, Fajardo A, Murphy M. *J Vasc Surg*. 2018;68(1):176-181.e1. doi:10.1016/j.jvs.2017.09.057. Role : Co investigator, contributed by recruiting patients to the study
40. *Rationale and Design of the ARREST Trial Investigating Mesenchymal Stem Cells in the Treatment of Small AAA. Wang SK, Green LA, Gutwein AR, Drucker NA, **Motaganahalli RL**, Fajardo A, Babbey CC, Murphy MP *Ann Vasc Surg*. 2017 Sep 12. PMID: 28916304. Role : Contributed by patient recruitment to the study
41. *Metformin does not reduce inflammation in diabetics with abdominal aortic aneurysm or at high risk of abdominal aortic aneurysm formation. Wang SK, Green LA, Gutwein AR, Kenyon B, **Motaganahalli RL**, Fajardo A, Gupta AK, Murphy MP *Vascular*. 2018 Jan 1: PubMed PMID: 29871586. Role : Contributed by patient recruitment to the study
42. *Leg heat therapy improves perceived physical function but does not enhance walking tolerance or vascular function in patients with peripheral artery disease .Jacob C Monroe, Chen Lin, Susan M Perkins, Yan Han, Brett J. Wong, **Raghu L Motaganahalli**, and Bruno T Roseguini. Submitted for publication in *American Journal of Physiology*. 2020. Role : Site Co- Principal Investigator, Collaborative Project , contributed by recruiting patients to the study

SERVICE

Refereed – Journal Publications

43. Laparoscopic remodeling of abdominal aortic aneurysms after exclusion “A technical description Kolvenbach R, Pinter L, **Motaganahalli RL**, Cheshire N, Hussein R, Dion YM. Published in *Journal of Vascular Surgery*, December 2002. PMID: 12469062.

44. Outcomes of endovascular AAA repair in patients with hostile neck anatomy using adjunctive balloon-expandable stents. Cox DE, Jacobs DL, **Motaganahalli RL**, Wittgen CM, Peterson GJ. *Vasc Endovascular Surg*. 2006 Jan-Feb; 40(1): 35-40. PMID: 16456604
45. True luminal reentry devices facilitate subintimal angioplasty and stenting of chronic total occlusions. Jacobs DL, **Motaganahalli RL**, Cox DE.: Initial report. *J Vasc Surg* 2006. Pub Med PMID:16765258
46. Crossing chronic total occlusions of the iliac and femoro-popliteal vessels and the use of true lumen reentry devices. Jacobs DL, Cox DE, **Motaganahalli RL**. *Perspectives in vascular surgery and endovascular therapy*. Vol 18: 1: 2006. Pub Med PMID: 16628327
47. Bedside vena cava filter placement with intravascular ultrasound: A simple, accurate, single venous access method Jacobs DL, **Motaganahalli RL**, Peterson BG. *Journal of Vascular Surgery*: December 2007.Pub Med PMID: 18155009.
48. Risk factors for infectious complications with percutaneous vascular closure devices Franco J, **Motaganahalli RL**, Habeeb M, Wittgen CM, Peterson GJ. *Vascular* 2009 Jul-Aug; 17(4):218-21. Pub Med PMID: 19698303.
49. Cystic Adventitial Disease of the Popliteal Artery. **Motaganahalli RL**, Pennell RC, Mantese VA, Westfall SG *J Am Coll Surg*. 2009 Oct; 209(4):541. PubMed PMID: 19801328
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Jane L. Liao BS, S. Keisin Wang MD, John G. Maijub MD, Alok K. Gupta MD, Alan P. Sawchuk MD, **Raghu L. Motaganahalli** MD, Michael P. Murphy MD, and Andres C. Fajardo MD. Accepted for Publication in *Annals of Vascular Surgery* May 2020 *. Role: Contributed by enrolling patients to the study cohort, review and preparation of manuscript.

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- 21) *Noninvasive and Patient-Specific Assessment of True Severity of Renal Artery Stenosis for New Guidelines for Planning Stent Therapy, Alan P. Sawchuk, Monsurul Khan, Anurag Deb, **Raghu L. Motaganahalli**, Xin Fang, Fangke Chen, Huidan (Whitney) Yu Journal of Vascular Surgery, Volume 68, Issue 3, 2018, Pages e64-e65, ISSN 0741-5214(R)
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Respectfully Submitted.

(Date)

(Signature of Candidate)

(*in Rank)

Personal Statement

Raghu L Motaganahalli, MD FRCS FACS DFSVS

Introduction and Short Biography

I joined the surgical faculty at Indiana University School of Medicine in July 2009 and currently hold the position of Associate Professor of Surgery in the Division of Vascular Surgery, Department of Surgery. I am a native of Bangalore, India, having obtained my medical school education at Bangalore University, India. I completed a General Surgery residency and a fellowship in vascular surgery in India. In my quest for excellence in the emerging area of endovascular surgery, I completed a visiting fellowship at the Cardiovascular Institute in Buenos Aires, Argentina under the mentorship of Professor Juan Parodi, the pioneer of endovascular aneurysm repair (EVAR) and one of the respected endovascular surgeons of our times. His method of endovascular treatment of aortic aneurysms has become the standard of care in their treatment. To further my skills in endovascular surgery, I completed an additional fellowship at the University of Dusseldorf in Germany, focusing on minimally invasive vascular surgery. These experiences provided an opportunity to come to the United States to complete training within the ACGME structure. I completed a general surgery residency and vascular surgery fellowship at St. Louis University Hospital. I have served Indiana University School of Medicine, Department of Surgery, over the past decade. I was promoted to Associate Professor with tenure in June 2015. After a search process, In June 2017, I was selected as the Division Chief and I lead a group of ten talented vascular surgeons. I have also remained in the role of Program Director of vascular surgery training programs since 2012. I have been a recipient of the IU Trustee teaching award besides recognized twice for excellence in teaching. I have improved access to vascular care to our patients with a mission of providing quality care in their communities. Through the tenure of my employment at Indiana University, my career objectives have been one of expanding the knowledge, training, and technical expertise in Complex endovascular surgery at IU. I have served the community of Indiana, Indiana University School of Medicine, IU Health, with over a decade of service. Given my sustained and substantial contributions to the vascular surgery specialty in service, education and research, I was elected as Distinguished Fellow of the Society for Vascular Surgery through a peer review process in 2020. **My area of excellence is Service.**

Service: I currently practice and teach residents, fellows at IU-Methodist hospital (50% effort), at the VA Medical center (20%), and administrative responsibilities that come with my role as Division Chief and Program Director (30%). I provide outpatient clinic services and perform both open vascular and endovascular surgery procedures at all IU Metroplex institutions, with approximately 60-70 % of the procedures in endovascular or minimally invasive surgery. My area of clinical and academic interest in endovascular surgery with peer-recognized expertise in complex and re-operative procedures. Building upon the endovascular program established before my arrival at IU SoM, I was successful in providing exposure for various advanced endovascular tools to our trainees and our patients. Over the past decade, I have contributed to the development of robust programs aimed at providing minimally invasive treatment options for carotid artery disease. Our Transcervical carotid (TCAR) stent program is currently recognized as a national leader as well center of excellence with outcomes aimed at changing the landscape of the treatment for carotid disease. Our TCAR program has placed us on the national map of vascular surgery care. We have recruited the maximum number of patients into the ROASTER-2 registry. Given my expertise in this field, I am also providing direction and oversight to further evaluation of this technology by serving as US national Principal investigator for multicenter DWI-MRI study for transcervical carotid stents.

One of my goals as a Division Chief was to provide the best care for our patients in their local communities. Working with Administration, I have been successful in expanding practices at IU West Hospital and establishing a service at the IU Arnett Hospital. I have been able to reduce the lag time for new patient care at IU Methodist Hospital Vascular Surgery to less than ten days compared to a three-week lag time a year earlier. This metric is far superior compared to several services offering clinical care at IU facilities. I have worked collaboratively in building a robust, sophisticated aortic endovascular intervention program, Peripheral artery disease interventions, and limb salvage. We have maintained a secure database for Ruptured abdominal aortic aneurysm management, helping us analyze the outcomes and compare it with other centers across the country. This has yielded several presentations at the regional and national vascular society meetings, including help to create similar programs at Piedmont Heart and Vascular Institute, Atlanta, and at the Medical College of Wisconsin, Milwaukee. I have effectively worked with our residents in creating an additional database for cerebrovascular diseases, visceral artery interventions, and aortic interventions. This has not only helped us track our results, but also to improve the scholarly activities conducted by our trainees. Besides my administrative responsibilities, I continue to be very busy with clinical practice taking care of complex open and endovascular interventions with a significant number of those who are referred for problems that merit an out of the box solution. I individually contributed 25% of the volume of endovascular aortic aneurysm repairs resulting in significantly diminished peri-operative mortality rates, blood loss, days on ventilator, and length of stay. Furthermore, I perform 40% of all the endovascular procedures performed by the Division of Vascular Surgery. I have been instrumental in establishing a transcervical carotid angioplasty and stent program at the VA Medical center and have supported the Methodist Hospital program by performing half of all carotid angioplasty procedures.

At the medical school level, I have contributed to medical student teaching on a day-to-day basis. I also mentor several medical students with interest in vascular surgery career. I have included them in our ongoing research efforts and provided them opportunities to understand more about vascular surgery. I am actively involved at the national level medical student and resident outreach activities through Society for Vascular Surgery (SVS) mentorship program. To ensure medical students across all the campuses of Indiana University receive adequate knowledge in vascular surgery, I have created a web-based lecture with plans to expand this to a series encompassing common vascular problems. I also serve as the elective course director for the Methodist Hospital Vascular surgery student rotations.

At the Division level, I am the Program Director for both the Integrated Vascular Surgery (0/5) and Independent Vascular Surgery (5/2 or fellowship) training programs. These programs now have a full complement of nine residents with all the demands that come with providing an educational environment and managing the daily human resource issues that come with the programs. I am involved with the selection process of the residents, Chairing GME committee meetings, participating in Clinical competency committee meetings, Program Evaluation Committee Meetings. As a program director, I am involved with overseeing compliance with Accreditation Council of Graduate Medical Education (ACGME) and in organizing MEDHUB evaluation tools for residents, staff and program. I respond to all ACGME notices, standard reports, and other administrative duties. This service commitment consumes up to 20% of my work effort. Over the past seven years, we have ensured no citations were listed for the vascular surgery program.

As a Program Director at the Division level, I have initiated and coordinated A) Mock oral examinations in vascular surgery to provide our residents an experience with certifying examination process along with providing feedback B)Open vascular surgery simulation programs for our vascular surgery residents as well as general surgery residents C)Preparatory course for vascular ultrasonography interpretation

examination D) Endovascular Technology Workshop that now has morphed into a Midwest Vascular Society activity to improve the residents experience and exposure to current technology, on an annual basis. Over the past three years, this program has grown in attendance and has attracted trainees from out of state and from other training programs.

At the Department level, my service commitment involves active participation in the Surgical Council that oversees the day to day operations, critical decisions made by the Department of surgery. I serve as a member of the departmental Graduate Medical Education (GME) Committee, Promotions and tenure committee, as well as Program Directors committee overseeing surgical subspecialties. I collaborate with our General Surgery program director routinely to improve the quality of our training programs.

At IU-Methodist hospital, I am involved with the Vascular Process Improvement team (Vascular –PI committee), which oversees/implements processes for improved patient care quality and optimal standardization of care across providers of vascular care. Since the implementation of the Level 1 Vascular emergency program, I have collaborated with Ms. Cynthia Richardson, RN, in data collection and interpretation. I participate in the IU Health committees overseeing operations for the cardiovascular center, workforce requirements, Operating room Council improving the care, access for our patients, OR Quality council, OR Cabinet, Stroke Quality Care Committee, IU Health clinical effectiveness council. I am currently the Chair of the Midwest Vascular Collaborative (MVC) research Committee for Vascular Quality Initiative (VQI), which is a patient safety organization of the Society for Vascular Surgery. It is a robust database aimed at improving patient care through a review of results, definition of best practice, and the dissemination of best practices to all those involved in the process.

Outside of our local health and academic system and at the regional level, I have engaged with activities of Indiana State American College of Surgeons and served as a councilor, program committee chair, treasurer/ secretary as well as the President of the organization in 2018-19 and now as the past President. I work with several colleagues from across the state in supporting initiatives of the American College of Surgeons and provide a voice for advocacy efforts. At the Midwest level, I have initiated a Mock Oral Examination for the vascular surgery residents and fellows who attend the Midwestern Vascular Surgical Society (MWVSS). This program has grown only in its popularity and a sold-out program at the Midwest regional level. In rank, I served as the Chair of Midwest Vascular Society, Educational Committee, and provided directions, input into the development of the program content. I also co-direct the Midwest Regional Complex Arterial Interventions course for practicing surgeons and senior trainees. This technology-heavy program brings state of the art treatment options for arterial interventions under one roof. We have had this program at our Simulation center for past three years. I believe due to these continued innovative contributions to the organization have not only helped the outreach to its membership with educational offerings effort, but also enhanced the revenue stream to the organization. I was elected to the Executive Council of the Midwestern Vascular Surgical Society and served in that role until 2016. I continue to serve the Midwest Vascular Surgery Society as the President-Elect in 2019-20.

At the national level, I served on the American College of Surgeons Video-based Education Committee besides as the Chair of the Video-Based Program Session for Surgical Congress in Chicago in 2016. I currently serve the College as the District 1 membership review committee responsible for screening the applicants for the Fellowship of the College. At the national level, I volunteered for the Society for Vascular Surgery's effort to promote and improve awareness of vascular disease to medical students as well as to advise them on career choices. I have used opportunities provided by the Vascular and Endovascular Surgery Society as well as SVS- Postgraduate Education committee to help design the agenda for national vascular meetings. Through my association with the South Asian American Vascular Surgery group, I have

been instrumental in setting up an international exchange scholar program between the United States and India. These opportunities serve to build bridges between vascular surgery communities and enhance collaboration, understanding the unique disease processes, research opportunities. I am also nominated as the Association of Program Directors of Vascular Surgery (APDVS) representative for the Milestones 2.0 committee to create tools for educational measurement of surgical expertise and progression in the resident's training. At the national level, I was involved with APDVS Curriculum committee activities, creating a V-Score learning module. I have served as the Chair of this committee and as an editor of the V-SCORE modules. I currently serve as a member of the Education Committee for the APDVS. In addition, I have been engaged with American Board of Surgery as an Associate Examiner in Surgery as well as Vascular Surgery for the past three years. I continue to serve on the V-SCORE Editorial board with responsibility to create a uniform tool, resource for all vascular surgery trainees across the country.

In rank, I have been an invited reviewer and Editor for the Annals of Vascular Surgery, Vascular endovascular surgery, Indian Journal of Vascular and endovascular surgery, V-SCORE modules. I also review articles for the Journal of Vascular Surgery. I have developed innovative concepts for newer stent-grafts, along with my division faculty. I have also independently developed a new design for controlling acute hemorrhage using an endovascular approach. These designs have been granted patents.

At the community level, I engage with referring physicians by providing continuing educational opportunities. I have given Grand Rounds at the American Health Network, IU Health Physicians, and IU-Family Medicine. These are specifically designed to meet the needs of the community practitioners with intent to highlight advances in Vascular and endovascular surgery and to establish a referral network for IU Health. Conclusively, I hope the patients are the ultimate beneficiaries due to improved and timely referral when appropriate. I also volunteer to help raise funds for the American Diabetes Association and their research efforts.

Over the past decade, I have contributed to the programmatic growth and prominence of our vascular surgery program with an emphasis on endovascular surgery, Hybrid vascular surgery. I have added to the success of the Level 1 Vascular program aimed at fast track treatment of life, limb-threatening vascular emergencies. I have built and collaborated for the success of transcatheter revascularization (TCAR) program to its recognition as the TCAR center of excellence with superior outcomes. I have contributed to the growth of our Fenestrated and Branch endovascular aneurysm repair program. Under my leadership, the program has allowed not only growth of programs but also individual growth of my colleagues and their recognition. I have conceptualized development of an outpatient vein therapy center as well as complex dialysis, percutaneous access program as an opportunity for my junior colleagues while allowing the growth and services offered by our vascular program

TEACHING: One of the prime reasons why I ventured into an academic career is to teach and mentor the next generation students and residents. Despite my busy clinical schedule and other administrative responsibilities, I am involved with educating and teaching activities at three levels 1) teaching Medical Students, 2) teaching General Surgery Residents, and 3) training Integrated and Independent Vascular Surgery Residents.

I actively participate in the educational activities of the medical school by teaching medical students. I provide instruction on the clinical examination of the vascular system, operating room experience, and introduce vascular surgery as a career option at the vascular special interest group meetings. I am involved in teaching the surgical skills station for the medical students before they enter the clinical years at the Department of Surgery boot camp. Currently, I coordinate the vascular surgery student education at the

IU Methodist Hospital. I am involved in meeting them, setting expectations, providing feedback as well as identifying areas for improvement. I emphasize bedside clinical examination skills to the medical students, which unfortunately seems an art near extinction. I teach medical students at both IU-Methodist and VA medical center campuses during their subspecialty clinical rotations. As discussed before, I provide opportunities to engage in clinical research, presentations, and submissions to various national meetings. Over the past few years, our medical students have been successful in producing manuscripts, which were published in vascular surgery journals. I was one of the recipients of the excellence in medical student teaching award for 2019 in the Department of Surgery.

Within the Department of Surgery, I am involved with teaching General Surgery residents assigned to our service at the Methodist and VA Medical Centers. I teach in the outpatient clinic setting, which includes discussing case histories and specific other pertinent vascular topics. The teaching experience continues in the operating room and on ward rounds. Keeping in mind the ACGME working hour regulations, I strive to make every encounter with the residents a productive adding value to their educational experience. PGY 2 residents have more exposure to the operating room experience on our services since the case volume at Methodist Hospital has increased in the past five years. I conduct a clinic or operate four days per week, so I hold a full-service complement that provides ample interface with the medical students, general surgery, and vascular surgery residents for this one-on-one teaching. The feedback I have received reflects my efforts to engage with residents at every available opportunity. I teach general surgery residents during the resident teaching hour with problem-based learning sessions. I conduct a vascular anastomosis simulation workshop annually for the PGY 2, 3 residents. I participate in the mock oral examinations in general surgery conducted by the Department annually to provide residents a preview of the Certifying Examinations as conducted by the American Board of Surgery. As recognition of my teaching efforts, I received the Department of Surgery excellence in resident teaching in 2018. I am also a recipient of Indiana University Trustee's teaching award for the year 2013 and recognition from the Department of Surgery in 2012.

At the Division level, I am the Program Director for both the integrated vascular surgery residency and the independent vascular surgery fellowship programs. I actively participate in all teaching conferences for the Vascular Surgery resident education, such as indications Conference, Journal Club, Book Club, and Basic Science/Clinical Core curriculum, morbidity/mortality conference. This involves the active training of five integrated vascular surgery residents as well as two fellows per year. Besides, I provide a robust educational experience to our residents through my role as the program director, as mentioned under service, but in many aspects are also pertinent to the education of our residents and fellows. I have taken the lead in teaching percutaneous interventions at all facilities we practice. I work with other vascular faculty to help them achieve the required numbers needed to obtain independent privileges for endovascular procedures. Our current vascular trainees have sufficient endovascular experience to meet the Residency Review Committee (RRC) requirements several months before graduation.

At a national level, I am actively involved with disseminating the knowledge, proctor, help build transcervical carotid stent programs at several universities and hospitals. My role as program director dovetails into my commitment at the national level involvement in education through the APDVS committees. I have chaired the Clinical Curriculum committee and made significant contributions to the development and completion of the SCORE curriculum. This will serve as a blueprint for several programs across the country in individualizing curriculum at local levels.

Research: Being a clinician with expertise in endovascular surgery has naturally generated my interest in innovative ways to treat patients with vascular disorders. This has generated a wide range of research

opportunities, including industry-sponsored clinical trials, outcomes research, the study of protocol efficacies, and identifying completely new approaches to treating vascular disease.

I have an academic interest in advancing the techniques for the endovascular repair of aortic aneurysms and the percutaneous treatment of carotid artery and lower extremity arterial occlusive disease. As a result, I am involved in several national clinical trials that bring newer technologies to IUSoM. Participation in industry-sponsored clinical trials allows us access to endovascular tools that are otherwise not available in our community or to our patients. This directly benefits patients who are otherwise unsuited to treatment with conventional open surgical techniques that can carry a significant and unfavorable risk/benefit ratio for the patient. I am a co-investigator with my partners in the Fenestrated aortic graft trial (P-Branch) sponsored by COOK. INC, for treating aneurysms involving the paravisceral aorta. We are one of only a few centers in the country having access to this new version of stent-grafts, which can eliminate the need for an open operation, which places the bowel and kidneys at risk during open operation. I am also the Principal Investigator for the Thoraco Abdominal Branched Stent graft trials (TAMBE) sponsored by WL Gore Inc. We are once again a select 30 centers in the United States offering complex endovascular repair of extensive aneurysm pathology. This will enable us to treat patients who are very sick and do not tolerate extensive open procedures.

In the area of carotid angioplasty and stent therapy, I am the principal site investigator participating in a study sponsored by Silk Road medical Inc. –ROADSTER-2 registry using the cerebral flow reversal model for cerebral protection during carotid stenting. We are one of a few centers performing these procedures, and IUSoM was selected based on my experience in these techniques. Given my interest and extensive expertise, I currently serve as the US national Principal Investigator for the DWI-MRI study for TCAR. This study will analyze the merits of the device in reducing cerebral embolic events and thereby hypothesized reduction in strokes, cognitive function decline. I have had opportunities to collaborate with investigators from several other universities evaluating the technology and reporting their outcomes. We have contributed to the data as well as to the development of the manuscripts published in several journals. Due to my expertise, I serve on the Society for Vascular Surgery- Transcarotid Artery Revascularization surveillance project (TCAR- TSP) supported by the Vascular Quality Initiative.

I have collaborated with Dr. Bruno Roseguini, Ph.D. from Purdue University School of Kinesiology in several functional, novel therapies for lower extremity claudication. I have been successful in obtaining Sub PI funding through the NIH-R21 funding mechanism studying the applications for patients with lower extremity arterial disease. We have successfully collaborated in obtaining funding from the American Heart Association, Indiana CTSI, IUPUI PDT for thermotherapy, Intermittent pneumatic compression as a treatment option for peripheral artery disease. We have collaborated over the past six years and jointly submitted several grant applications with success in obtaining both intramural and extramural grant support. In continued contributions to NIH funded studies, I also serve as site principal investigator for the BEST-CLI study, first of its kind in the United States evaluating open and Endovascular interventions for the treatment of Critical Limb ischemia. I serve on their recruitment and retention committee. We are in the top 1/5 of over 145 sites that have contributed to the study with patient recruitment.

In rank, I developed innovative approaches to managing some difficult vascular cases, and I have published technical challenges managing internal iliac artery flow preservation, staged treatment options for complex arterial and venous interventions. Since the inception of the level 1 vascular protocol for ruptured aortic aneurysms, I have worked on evaluating the efficacy of the protocol uses and, with critical amendments, have matured the process over the last nine years. We have analyzed our results since inception and abstracts regarding the data generated have been presented at both regional and national

meetings, including the Midwestern Vascular Society, Society for Clinical Surgery, and the Society for Vascular Surgery annual meetings. The most satisfying project I worked in rank was with PRESERVE trial, examining the preventative strategies for contrast-induced nephropathy, which was subsequently published in the New England Journal of Medicine.

In my role as faculty of the medical school, I have had the pleasure to mentor our medical students, residents in conducting clinical research. Our 4th-year medical students, residents, have continued to be beneficiaries of this process and have successfully presented abstracts to the Association of Academic Surgeons, Society for clinical vascular surgery, Society for Vascular Surgery, Vascular Endovascular Surgery Society highlighting comparisons between traditional treatment options such as carotid endarterectomy and transcervical carotid stents. I have mentored General surgery residents, vascular surgery residents and fellows in evaluating new approaches to using technology, outcomes as well as contributing to textbook chapters, writing learning modules for online educational resources (V-SCORE).

I have sought opportunities to translate the basic science interest of my partner, Dr. Michael P. Murphy, into the clinical arena. I participate in the Marrow Stim phase-3 trial as a co-investigator for evaluating the efficacy of stem cells in the management of non-reconstructive critical limb ischemia, CHAMP study, as Stem cell therapy for aortic aneurysms. These studies are novel, designed to understand the disease mechanisms, provide an insight into treatment options that have a far-reaching impact. I recruit patients into this study as well as provide follow up service.

To summarize, my research and service creative activity **in rank**, have resulted in 58 peer-reviewed journal publications (21 as senior or first author, corresponding). I am awaiting a decision on an additional eight manuscripts as first/senior authors. In rank, I have contributed to eight book chapters/ electronic learning modules. In rank, I have presented or contributed to data sets that has resulted in 54 peer-reviewed presentations at (6 local, 23 regional, 22 national level, and 3 international) conferences. In addition to the above, I have authored/co-authored 20 other peer reviewed abstracts. In rank, I am participating/participated in 19 multicenter industry-sponsored/ NIH clinical trials, of which I am a principal investigator of seven studies and a US national PI on one study

Future Directions: As I complete over a decade long service at the Indiana University School of Medicine as a faculty member, I am confident that I have given my best as a surgeon, educator, and clinical-scientific investigator towards the mission of the Indiana University School of Medicine. I have established myself as an expert clinician providing service to patients with complex vascular pathologies with an endovascular/ Hybrid approach. I will continue to provide leadership as the Division Chief as well as the Program Director of our two Vascular Surgery Training programs. I plan to continue to enhance the endovascular surgery experience of our residents/fellows through simulation and feedback. I will continue to enhance educational experiences for our medical students and general surgery trainees. I plan to push the edge of endovascular interventions and provide state-of-the-art patient care by my involvement with industrial research trials and my innovative observations. For each patient with no prescribed clinical option for care in the community, I would like Indiana University to offer an out of the box solution by our unique skills or innovative research options designed at preserving the quality of life. My research will be driven by my patients' clinical needs but will always strive for unique patient care options. I plan to continue my collaboration with the translational research that already resides within our Division of Vascular Surgery. I believe I have the methods and goals in place to be a vital component of the overall school mission.