

CURRICULUM VITAE

Jason N Mactaggart, MD

CAMPUS ADDRESS: Department of Surgery-General Surgery
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EDUCATION

1992 - 1996 B.A., Biology, Wartburg College
1996 - 2000 MD, Medicine, University of Iowa College of Medicine

POST DEGREE TRAINING

1996 - 1996 Research, Exercise Physiology, University of Northern Iowa
1997 - 1997 Research, Internal Medicine, University of Northern Iowa
7/2000 - 6/2003 Resident, General Surgery, University of Nebraska Medical Center
7/2003 - 6/2005 Research, Vascular Surgery, University of Nebraska Medical Center
7/2005 - 6/2007 Resident, General Surgery, University of Nebraska Medical Center
7/2007 - 6/2009 Fellowship, Vascular Surgery, University of California San Francisco

CERTIFICATIONS AND LICENSES

2011 - 2021 Diplomate Vascular Surgery, American Board of Surgery 102184
2003 - 2016 State of Nebraska License, Nebraska, 22606
2007 - 2016 State of California License, California, A99020
2009 - 2017 DEA BBM6881987
2013 - 2017 State of Iowa License, Iowa, 41149

GRANTS AND CONTRACT SUPPORT

ACTIVE

Title: Optimal Stent Selection for the Femoropopliteal Artery
ID Number: 5RO1HL125736-02
Funding Agency: DHHS/NIH/NHLBI
Project Period: 2014 - 2019
Total Dollars: \$3,567,176
Direct Cost: \$559,825
Role: Co Investigator (Kamenskiy)

Title: Assessment of the Retrievable Endovascular Arterial Markers in a Cadaver Model of Peripheral Arterial Disease: A Pilot Study
ID Number:
Funding Agency: Abbott Vascular Solutions, Inc.
Project Period: 2015 - 2016
Total Dollars: \$6,294
Direct Cost: \$4,995
Role: Co Investigator (Kamenskiy)

Title: Non-Invasive Treatment of Abdominal Aortic Aneurysm Clinical Trial (N-TA3CT)
ID Number: 1R01AG037120-01A1
Funding Agency: University of Maryland
Project Period: 2011 - 2016
Total Dollars: \$3,826,948
Direct Cost: \$-1,314,827
Role: Co Investigator (Baxter)

Title: Quantitative Assessment of the Influence of Vascular Mimetic Implant Supera and its Competitor Conventional SFA Stent on the Natural LIMB-induced Deformations of the Femoropopliteal Artery (Cadevar Pilot Study)
ID Number: Work Order 1
Funding Agency: Abbott Vascular Solutions, Inc.
Project Period: 2014 - 2014
Total Dollars: \$9,109
Direct Cost: \$7,230
Role: Co Investigator (Kamenskiy)

PENDING

Title: Endovascular Control of Non-Compressible Hemorrhage
ID Number:
Funding Agency: DHHS/NIH/NHLBI
Project Period: 2016 - 2020
Total Dollars: \$2,233,622
Direct Cost: \$1,513,260
Role: Co Investigator (Kamenskiy)

Title: Rapid Acute Endovascular Management of Non-Compressible Truncal and Junctional Hemorrhage and Long-Term Analysis of Stent-Graft Durability in Young Military Trauma Populations
ID Number: 14361001
Funding Agency: U.S. Army/USAMRMC/CDMRP
Project Period: 2015 - 2018
Total Dollars: \$1,468,312
Direct Cost: \$998,587
Role: Co Investigator (Kamenskiy)

NON-SPONSORED / OUTSIDE GRANTS INFORMATION

Title: Mechanical and Morphological Analysis of a Novel Electrospun Nanofiber Arterial Substitute in a Swine Model of Atherosclerosis.
Funding Agency: Nebraska Research Initiative
Project Period: 2012 - 2014
Total Dollars: \$0
Direct Cost: \$0
Role: Principal Investigator

Title: Modeling-Assited Imaging to Optimize Surgical Interventions
Funding Agency: UNL/UNMC
Project Period: 2010 - 2011
Total Dollars: \$0
Direct Cost: \$0
Role: Co-Investigator ()

PATENTS

- 1 Surgical Snare Device. 01/01/1900.
- 2 Fluid Jet Arterial Surgical Device. (UNMC Docket #14003) 01/01/1900.

OTHER APPOINTMENTS AND POSITIONS

2009 - Present Asst Professor, Surgery-Vascular Surgery, UNMC, Omaha, NE,
2009 - Present Attending Surgeon, Surgery-Vascular Surgery, Creighton University, Omaha, NE,
2009 - Present Attending Surgeon, Surgery-Vascular Surgery, Nebraska/Western Iowq VA Medical Center, Omaha, NE,
2010 - Present Attending Surgeon, Surgery-Vascular Surgery, Children's Hospital, Omaha, NE,
2013 - Present Attending Surgeon, Surgery-Vascular Surgery, George C. Grape Community Hospital, Hamburg, IA,

CONSULTING POSITIONS

EDITORIAL

2009 - Present Reviewer, Journal of Vascular Surgery

OTHER

2013 - Present Ad hoc reviewer, Journal of the American College of Surgeons

HONORS AND AWARDS

2013-2014 Monst Promising Invention Award, UNMC, University of Nebraska Medical Center

LOCAL

2004-2007 In-Training Exam Score Award, University of Nebraska Department of Surgery, Omaha, NE
2005 AOA Award, University of Nebraska Medical Center, Omaha, NE

REGIONAL

2006 Research Award, American College of Surgeons, Nebraska Chapter, Omaha, NE

MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES

Present Member, American Medical Association
Present Member, Alpha Omega Alpha Society (AOA)
Present Member, Society for Vascular Surgery (SVS)
Present Member, Midwestern Vascular Surgical Society
2009 Member, American College of Surgeons
2011 Member, Nebraska Chapter, American College of Surgeons
2012 Member, European Society for Vascular Surgery
2010 - Present Member, American Heart Association

COMMITTEE ASSIGNMENTS

UNMC

2009 - Present Committee Member, Transfusion Committee
2011 - Present Committee Member, Operating Room New Products Committee

PRESENTATIONS

1. MacTaggart JN; Hansen MR; Kolkhorst FW. Effect of the Access Fat Conversion Activity Bar on Fat Utilization and Time to Exhaustion. American College of Sports Medicine 44th Annual Meeting; 1997 May 28-31. Denver, Colorado
2. MacTaggart JN; Johanning JM; Xiong W; Knispel RA; Pipinos II; Baxter BT. NADPH Oxidase Inhibition Suppresses Aortic Aneurysm Formation. Society of University Surgeons 2nd Annual Academic Surgical Congress; 2006 Feb 6-9. Philadelphia, Pennsylvania
3. MacTaggart JN; Johanning JM; Xiong W; Pipinos II; Knispel R; Baxter BT. NADPH Oxidase Inhibition Suppresses Aortic Aneurysm Formation. Research Initiatives in Vascular Disease; 2006 March 30-31. Washington, DC
4. MacTaggart JN; Xiong W; Knispel R; Baxter BT. Deletion of CCR2 but not CCR5 or CXCR3 Inhibits Aortic Aneurysm Formation. Society of University Surgeons 2nd Annual Academic Surgical Congress; 2007 Feb 6-9. Phoenix, Arizona
5. MacTaggart JN; Monahan TS; Hiramoto JS; Schneider DB; Chuter TAM; Eichler CM; Reilly LM. Cryopreserved Superficial Femoral Vein: An Alternative Conduit for Reconstruction of Infected Prosthetic Aortic Grafts. Society for Vascular Surgery Annual Meeting - Plenary Session; 2009 June. Denver, Colorado
6. Kamenskiy AV; Dzenis YA; MacTaggart JN; Johanning JM; Longo GM; Lynch GT; Pipinos II. Biaxial Mechanical Properties of the Human Carotid Artery and Materials Used for Patch Angioplasty. 34th Annual Meeting of the Midwestern Vascular Surgical Society; 2010 Sep 9-11. Indianapolis, IN

7. Kamenskiy AV; Dzenis YA; Desyatova AS; Lynch GT; MacTaggart JN; Pipinos II. Toward Optimal Hemodynamics in the Endarterectomized Carotid: A Finite Element Study. 5h Annual Academic Surgical Congress; 2010 Feb 3-5. San Antonio, TX
8. Bochkarev V; Pipinos II; MacTaggart JN. Antegrade mesenteric bypass with bifurcated greater saphenous vein: a final option for chronic mesenteric ischemia after failed angioplasty and stenting. Southwestern Surgical Congress 62nd Annual Meeting; 2010 March 21-24. Tucson, AZ
9. Gupta PK; Gupta H; Miller WJ; Lynch TG; MacTaggart JN; Johanning JM; Longo GM; Pipinos II. Predictors of Cardiac Events after Major Vascular Surgery. 5th Annual Academic Surgical Congress; 2010 Feb 3-5. San Antonio, TX
10. Gupta PK; Gupta H; Miller WJ; Johanning JM; Lynch TG; MacTaggart JN; Longo GM; Pipinos II. Corticosteroid Use, Symptomatic Status, and Smoking Are Associated with Stroke after Carotid Surgery in the ACS NSQIP. 5th Annual Academic Surgical Congress; 2010 Feb 3-5. San Antonio, TX
11. Kamenskiy AV; Pipinos II; MacTaggart JN; Dzenis Y. Nonlinear Coupled Modeling of Patched Carotids: Towards Biomechanics-Assisted Optimization of Grafts and Surgery Interventions. 4th International Conference on the Mechanics of Biomaterials and Tissues; 2011 Dec 11-15. Big Island, HI
12. Kamenskiy AV; Pipinos II; MacTaggart JN; Dzenis YA. Comparative Analysis of Strain-Based and Invariant-Based Soft Tissue Constitutive Models: Experimental Evaluation of Predictive Capabilities. 4th International Conference on the Mechanics of Biomaterials and Tissues; 2011 Dec 11-15. Big Island, HI
13. Kamenskiy AV; Pipinos II; MacTaggart JN; Dzenis YA. Evaluation of Predictive Capabilities of Fung-Type and Structurally-Motivated Constitutive Models for Describing the Complex Mechanical Behavior of Soft Tissues. 48th Annual Technical Conference of Society of Engineering Science; 2011 Oct 12-14. Evanson, IL
14. Kamenskiy AV; Dzenis YA; MacTaggart JN; Lynch TG; Kazmi SA; Pipinos II. Nonlinear Mechanical Behavior of the Common External and Internal Carotid Arteries In Vivo. 35th Annual Meeting of the Midwestern Vascular Surgical Society; 2011 Sep 15-17. Chicago, IL
15. Gupta PK; Natarajan B; Gupta H; Fang X; Balters M; Johanning JM; Lynch TG; Longo GM; MacTaggart JN; Pipinos II. Suprarenal Abdominal Aortic Aneurysm: Which Patients Would Benefit More From Fenestrated Endograft Rather Than Open Repair?. 2011 Vascular Annual Meeting; 2011 June 16-18. Chicago, IL
16. Gupta PK; Natarajan B; Gupta H; Fang X; Balters M; Johanning JM; Lynch TG; Forse RA; Longo GM; MacTaggart JN; Pipinos II. Contemporary Outcomes Following Endovascular versus Open Repair of Abdominal Aortic Aneurysm. 2011 Vascular Annual Meeting; 2011 June 16-18. Chicago, IL
17. Gupta PK; Natarajan B; Reddy YM; Gupta H; Balters M; Johanning JM; Lynch TG; Longo GM; MacTaggart JN; Pipinos II. Open Revascularization for Chronic Mesenteric Ischemia. 2011 Vascular Annual Meeting; 2011 June 16-18. Chicago, IL
18. Gupta PK; Natarajan B; Reddy YM; Gupta H; Balters M; Johanning JM; Lynch TG; Forse AR; Longo GM; MacTaggart JN; Pipinos II. Thirty Day Outcomes Following Brachiocephalic and Brachio basilic Arteriovenous Fistula Formation: National Benchmarks for Standard of Care. 2011 Vascular Annual Meeting; 2011 June 16-18. Chicago, IL
19. Gupta PK; Natarajan B; Gupta H; Fang X; Balters M; Johanning JM; Lynch TG; Longo GM; MacTaggart JN; Pipinos II. Endovascular Repair of Abdominal Aortic Aneurysm does not improve survival versus Open Repair in Patients Sixty Years or Younger. 35th Annual Meeting of the Midwestern Vascular Surgical Society; 2011 Sept 15-17. Chicago, IL
20. Kamenskiy AV; Dzenis YA; MacTaggart JN; Lynch TG; Kazmi JSA; Pipinos II. Nonlinear Mechanical Behavior of the Common, External and Internal Carotid Arteries in Vivo. 35th Annual Meeting of the Midwestern Vascular Surgical Society; 2011 Sept 15-17. Chicago, IL
21. Gupta PK; Natarajan B; Gupta H; Fang X; Balters M; Johanning JM; Lynch TG; Longo GM; MacTaggart JN; Pipinos II. Suprarenal Abdominal Aortic Aneurysm: Which Patients Would Benefit More From Fenestrated Endograft Rather Than Open Repair?. 35th annual Meeting of the Midwestern Vascular Surgical Society; 2011 Sept 15-17. Chicago, IL
22. MacTaggart JN. Endoleaks. Medical Grand Rounds, University of Nebraska Medical Center; 2012 Jan 18. Omaha, Nebraska
23. Kamenskiy AV; Bikhchandani J; Pipinos II; Gupta PK; Dzenis YA; MacTaggart JN. Geometric and Hemodynamic Effects of Carotid Artery Stenting. The American College of Surgeons 2012 Clinical Congress; 2012 Sep 30 - Oct 4. Chicago, Illinois

24. Bikhchandani J; Kamenskiy AV; Talukdar A; Mukkai DK; Otuwa N; Dzenis Y; Pipinos II; MacTaggart JN. Changes in Carotid Artery Geometry Following Revascularization: Endarterectomy Versus Stenting. 7th Annual Academic Surgical Congress; 2012 Feb 14-16. Las Vegas, NV
25. Grossman L; Gupta PK; Ramanan B; Mactaggart JN; Baxter BT; Fang X; Lynch TG; Pipinos II. Aortic Surgery for Aortic Graft Infections: Defining National Benchmarks for Standards of Care. 36th Annual Meeting of the Midwestern Vascular Surgical Society; 2012 Sept 6-18. Milwaukee, WI
26. Ramanan B; Gupta PK; Lynch TG; Gupta H; Longo GM; Mactaggart JN; Baxter BT; Johanning JM; Pipinos II. In-Hospital and Post-Discharge Venous Thromboembolism after Vascular Surgery. 36th Annual Meeting of the Midwestern Vascular Surgical Society; 2012 Sept 6-18. Milwaukee, WI
27. Gupta P; Ramanan B; Mactaggart JN; Fang X; Balters M.; Longo GM; Lynch TG; Johanning JM; Pipinos II. Risk Index for Predicting Perioperative Stroke or Death Risk in Asymptomatic Patients undergoing Carotid Endarterectomy. Scientific Papers Sessions. 2012 Annual Clinical Congress of the American College of Surgeons; 2012 Spet 30-Oct 4. Chicago, IL
28. Kamenskiy A; Lomneth C; Pipinos I; Longo GM; Johanning JB; Baxter T; MacTaggart J. Method to Quantify Femoropopliteal Artery Deformation During Knee Flexion. American Heart Association, Arteriosclerosis, Thrombosis, and Vascular Biology Scientific Sessions; 2013 May 1-3. Buena Vista, FL
29. Kamenskiy AV; Kazmi SA; Pemberton MA; Pipinos II; Dzenis YA; Lomneth CS; Phillips NY; MacTaggart JN. Biaxial Mechanical properties of the Human Thoracic and Abdominal Aorta, Common Carotid, Subclavian, Renal and Common Iliac Arteries. 9th Annual Academic Surgical Congress; 2014 Feb 4-6. San Diego, CA

PUBLICATIONS

A. ARTICLES PUBLISHED IN SCHOLARLY JOURNALS

1. Kolkhorst FW, MacTaggart JN, Hansen MR. Effect of a Sports Food Bar on Fat Utilisation and Exercise Duration. *Canadian Journal of Applied Physiology*. 23 : 271-278. 1998
2. MacTaggart JN, Pipinos II, Johanning JM, Lynch TG. Acrylic cement pulmonary embolus masquerading as an embolized central venous catheter fragment. *Journal of Vascular Surgery*. 43 : 180-183. 2006
3. Xiong W, Knispel R, Mactaggart J, Baxter BT. Effects of tissue inhibitor of metalloproteinase 2 deficiency on aneurysm formation. *Journal of Vascular Surgery*. 44 : 1061-1066. 2006
4. MacTaggart JN, Xiong W, Knispel R, Baxter BT. Deletion of CCR2 but not CCR5 or CXCR3 inhibits aortic aneurysm formation. *Surgery*. 142 : 284-288. 2007
5. B. Timothy Baxter; Jason MacTaggart. Pathogenesis of Aortic Aneurysms. *Comprehensive Vascular and Endovascular Surgery*. 465-472. 2009
6. Xiong W, Mactaggart J, Knispel R, Worth J, Zhu Z, Li Y, Sun Y, Baxter BT, Johanning J. Inhibition of reactive oxygen species attenuates aneurysm formation in a murine model. *Atherosclerosis*. 202 : 128-134. 2009
7. Xiong W, Knispel R, MacTaggart J, Greiner TC, Weiss SJ, Baxter BT. Membrane-type 1 matrix metalloproteinase regulates macrophage-dependent elastolytic activity and aneurysm formation in vivo. *Journal of Biological Chemistry*. 284 : 1765-1771. 2009
8. Xiong W; MacTaggart JN; Knispel R; Worth J; Peridsky Y; Baxter BT. Blocking TNF-alpha attenuates aneurysm formation in a murine model. *J Immunol*. 2009 Aug; Vol. 183 (4): p. 2741-6
9. Xiong W, MacTaggart J, Knispel R, Worth J, Persidsky Y, Baxter BT. Blocking TNF- α attenuates aneurysm formation in a murine Model. *Journal of Immunology*. 183 : 2741-2746. 2009
10. Gupta PK; Gupta H; Miller WJ; Johanning JM; Lynch TG; MacTaggart JN; Longo GM; Pipinos II. Corticosteroid Use, Symptomatic Status, and Smoking Are Associated with Stroke after Carotid Surgery in the ACS NSQIP Database. *The Journal of surgical research*. 2010 Aug; Vol. 158 (2): p. 303

11. Kamenskiy AV, Dzenis YA, Mactaggart JN, Desyatova AS, Pipinos II. In vivo three-dimensional blood velocity profile shapes in the human common, internal, and external carotid arteries. *Journal of Vascular Surgery*. 54 : 1011-20. 2011
12. Kamenskiy AV, Pipinos II, MacTaggart JN, Kazmi SA, Dzenis YA. Comparative analysis of the biaxial mechanical behavior of carotid wall tissue and biological and synthetic materials used for carotid patch angioplasty. *Journal of Biomechanical Engineering*. 133 : 111008. 2011
13. Gupta PK, Mactaggart JN, Natarajan B, Lynch TG, Arya S, Gupta H, Fang X, Pipinos II. Predictive factors for mortality after open repair of paravisceral abdominal aortic aneurysm. *Journal of Vascular Surgery*. 55 : 666-673. 2012
14. Gupta PK, Ramanan B, Lynch TG, Gupta H, Fang X, Balters M, Johanning JM, Longo GM, MacTaggart JN, Pipinos II. Endovascular repair of abdominal aortic aneurysm does not improve early survival versus open repair in patients younger than 60 years. *European Journal of Vascular and Endovascular Surgery*. 43 : 506-512. 2012
15. Kamenskiy AV, MacTaggart JN, Pipinos II, Bikhchandani J, Dzenis YA. Three-dimensional geometry of the human carotid artery. *Journal of Biomechanical Engineering*. 134 : 064502. 2012
16. Kamenskiy AV, Dzenis YA, MacTaggart JN, Lynch TG, Jaffar Kazmi SA, Pipinos II. Nonlinear mechanical behavior of the human common, external, and internal carotid arteries in vivo. *Journal of Surgical Research*. 176 : 329-36. 2012
17. Gupta PK, Ramanan B, Lynch TG, Sundaram A, MacTaggart JN, Gupta H, Fang X, Pipinos II. Development and validation of a risk calculator for prediction of mortality after infrainguinal bypass surgery. *Journal of Vascular Surgery*. 56 : 372-379. 2012
18. Ramanan B, Gupta PK, Sundaram A, Lynch TG, MacTaggart JN, Baxter BT, Johanning JM, Pipinos II. In-hospital and postdischarge venous thromboembolism after vascular surgery. *Journal of Vascular Surgery*. 57 : 1589-1596. 2013
19. Gupta PK, Ramanan B, Mactaggart JN, Sundaram A, Fang X, Gupta H, Johanning JM, Pipinos II. Risk index for predicting perioperative stroke, myocardial infarction, or death risk in asymptomatic patients undergoing carotid endarterectomy. *Journal of Vascular Surgery*. 57 : 318-26. 2013
20. Kamenskiy AV, Mactaggart JN, Pipinos II, Gupta PK, Dzenis YA. Hemodynamically motivated choice of patch angioplasty for the performance of carotid endarterectomy. *Annals of Biomedical Engineering*. 41 : 263-78. 2013
21. Ramanan B, Gupta PK, Sundaram A, Lynch TG, MacTaggart JN, Baxter BT, Johanning JM, Pipinos II. In-hospital and postdischarge venous thromboembolism after vascular surgery. *Journal of Vascular Surgery*. 57 : 1589-96. 2013
22. Kamenskiy AV, Pipinos II, Dzenis YA, Bikhchandani J, Gupta PK, Phillips N, Kazmi SA, MacTaggart JN. Effects of Carotid Artery Stenting on Arterial Geometry. *Journal of the American College of Surgeons*. 217 : 251-62. 2013
23. Kamenskiy AV, Pipinos II, Dzenis YA, Bikhchandani J, Gupta PK, Phillips N, Kazmi SA, MacTaggart JN. Effects of carotid artery stenting on arterial geometry. *Journal of the American College of Surgeons*. 217 : 251-62. 2013
24. Kamenskiy AV, Pipinos II, Dzenis YA, Gupta PK, Jaffar Kazmi SA, Mactaggart JN. A mathematical evaluation of hemodynamic parameters after carotid eversion and conventional patch angioplasty. *American Journal of Physiology - Heart and Circulatory Physiology*. 305 : H716-24. 2013
25. Ramanan B, Gupta PK, Sundaram A, Gupta H, Johanning JM, Lynch TG, MacTaggart JN, Pipinos II. Development of a risk index for prediction of mortality after open aortic aneurysm repair. *Journal of Vascular Surgery*. 58 : 871-8. 2013
26. Ramanan B, Gupta PK, Sundaram A, Gupta H, Johanning JM, Lynch TG, MacTaggart JN, Pipinos II. Development of a risk index for prediction of mortality after open aortic aneurysm repair. *Journal of Vascular Surgery*. 58 : 871-8. 2013
27. Gupta PK, Sundaram A, Mactaggart JN, Johanning JM, Gupta H, Fang X, Forse RA, Balters M, Longo GM, Sugimoto JT, Lynch TG, Pipinos II. Preoperative anemia is an independent predictor of postoperative mortality and adverse cardiac events in elderly patients undergoing elective vascular operations. *Annals of Surgery*. 258 : 1096-102. 2013
28. Alexey V. Kamenskiy; Yuris A. Dzenis; Syed A. Jaffar Kazmi; Mark A. Pemberton; Iraklis I. Pipinos; Nick Y. Phillips; Kyle Herber; Thomas Woodford; Robert E. Bowen; Carol S. Lomneth; Jason N. MacTaggart. Biaxial mechanical properties of the human thoracic and abdominal aorta, common carotid, subclavian, renal and common iliac arteries. *Biomechanics and Modeling in Mechanobiology*. 2014
29. Jason MacTaggart. Back-table tailored stent grafts : Surgeon modified, surgeon approved. *JAMA Surgery*. 149 : 449-450. 2014
30. Alexey V. Kamenskiy; Iraklis I. Pipinos; Jeffrey S. Carson; Jason N. MacTaggart; B. Timothy Baxter. Disease-related geometric and structural remodeling of the carotid artery. *Journal of Vascular Surgery*. 2014

31. Kamenskiy AV, Pipinos II, Dzenis YA, Lomneth CS, Kazmi SA, Phillips NY, MacTaggart JN. Passive biaxial mechanical properties and in vivo axial pre-stretch of the diseased human femoropopliteal and tibial arteries. *Acta Biomater.* 10 : 1301-13. 2014
32. Kamenskiy AV, Pipinos II, Dzenis YA, Lomneth CS, Kazmi SA, Phillips NY, MacTaggart JN. Passive biaxial mechanical properties and in vivo axial pre-stretch of the diseased human femoropopliteal and tibial arteries. *Acta Biomater.* 10 : 1301-13. 2014
33. MacTaggart JN, Phillips NY, Lomneth CS, Pipinos II, Bowen R, Baxter BT, Johanning J, Longo GM, Desyatova AS, Moulton MJ, Dzenis YA, Kamenskiy AV. Three-dimensional bending, torsion and axial compression of the femoropopliteal artery during limb flexion. *J Biomech.* 47 : 2249-56. 2014
34. Kamenskiy AV, Dzenis YA, Kazmi SA, Pemberton MA, Pipinos II, Phillips NY, Herber K, Woodford T, Bowen RE, Lomneth CS, MacTaggart JN. Biaxial mechanical properties of the human thoracic and abdominal aorta, common carotid, subclavian, renal and common iliac arteries. *Biomech Model Mechanobiol.* 13 : 1341-59. 2014
35. Alexey V. Kamenskiy; Iraklis I. Pipinos; Yuris A. Dzenis; Nicholas Y. Phillips; Anastasia S. Desyatova; Justin Kitson; Robert Bowen; Jason N. MacTaggart. Effects of age on the physiological and mechanical characteristics of human femoropopliteal arteries. *Acta Biomaterialia.* 11 : 304-313. 2015
36. Alexey Kamenskiy; Dimitrios Miserlis; Peter Adamson; Micah Adamson; Thomas Knowles; Jamil Neme; Panagiotis Koutakis; Nicholas Phillips; Iraklis Pipinos; Jason MacTaggart. Patient demographics and cardiovascular risk factors differentially influence geometric remodeling of the aorta compared with the peripheral arteries. *Surgery (United States).* 2015
37. Alexey Kamenskiy; Dimitrios Miserlis; Peter Adamson; Micah Adamson; Thomas Knowles; Jamil Neme; Panagiotis Koutakis; Nicholas Phillips; Iraklis Pipinos; Jason MacTaggart. Patient demographics and cardiovascular risk factors differentially influence geometric remodeling of the aorta compared with the peripheral arteries. *Surgery (United States).* 158 : 1617-1627. 2015
38. Alexey V. Kamenskiy; Iraklis I. Pipinos; Jeffrey S. Carson; Jason N. Mactaggart; B. Timothy Baxter. Age and disease-related geometric and structural remodeling of the carotid artery. *Journal of Vascular Surgery.* 62 : 1521-1528. 2015
39. Caleb M. Steffen; Patrick J. Hawkes; Jason N. Mactaggart; G. Matthew Longo. Aortic endografting failure due to deviation from device instructions for use. *Journal of Vascular Surgery.* 63 : 1088-1089. 2016

B. ARTICLES ACCEPTED FOR PUBLICATION IN SCHOLARLY JOURNALS

Not Applicable

C. ARTICLES SUBMITTED FOR PUBLICATION IN SCHOLARLY JOURNALS

Not Applicable

D. BOOKS PUBLISHED, IN PREPARATION, SUBMITTED OR IN PRESS

Not Applicable

E. CHAPTERS IN BOOKS

1. Baxter BT; MacTaggart JN. *Greenfield's Surgery Scientific Principles and Practice.* 4th. Lippincott Williams & Wilkins; 2005. Pathogenesis of Aneurysms
2. MacTaggart JN; Baxter BT. *Surgery: Scientific Principles and Practice.* Philadelphia, Pennsylvania: Lippincott Williams & Wilkins; 2005. Pathogenesis of Aneurysms; 1674-1682

3. Baxter BT; MacTaggart JN; Mulholland MW; Lillemoe KD; Doherty GM; Maier RV; Simeone DM; Upchurch GR. Greenfield's Surgery. 4th. Philadelphia: ippincott, Williams & Wilkins; 2005. Carotid and Upper Extremity Aneurysms
4. Baxter BT; MacTaggart JN. Comprehensive Vascular and Endovascular Surgery. 2nd. Mosby; 2009. Pathogenesis of Aortic Aneurysms
5. Rapp JH; MacTaggart JN. In Current Surgical Diagnosis and Treatment. Appleton and Lange; 2010. Arteries
6. MacTaggart JN; Longo GM. New Findings in Vascular Surgery. Shelton, CT: People's Medical Publishing House; 2012. Endovascular Reconstruction of the Aortic Arch

F. BOOKS OR JOURNALS EDITED

Not Applicable

G. ABSTRACTS AND PRELIMINARY COMMUNICATIONS

1. Gupta PK; Gupta H; Miller WJ; Lynch TG; MacTaggart JN; Johanning JM; Longo GM; Pipinos II. Predictors of Cardiac Events after Major Vascular Surgery. 5th Annual Academic Surgical Congress; San Antonio, TX. Quick Shot Oral. 2010 Feb
2. Gupta PK; Gupta H; Miller WJ; Johanning JM; Lynch TG; MacTaggart JN; Longo GM; Pipinos II. Corticosteroid Use, Symptomatic Status, and Smoking are Associated with Stroke after Carotid Surgery in the ACS NSQIP. 5th Annual Academic Surgical Congress; San Antonio, TX. Quick Shot Oral. 2010 Feb
3. Gupta PK; Gupta H; Miller WJ; MacTaggart JN; Johanning JM; Longo GM. Predictors of Cardiac Events after Major Vascular Surgery. Quick shot oral presentation; San Antonio, Texas. 5th Annual Academic Surgical Congress. 2010 Feb
4. Gupta PK; Gupta H; Miller WJ; Johanning JM; Lynch TG; MacTaggart JN; Longo GM; Pipinos II. Corticosteroid Use, Symptomatic Status, and Smoking Are Associated with Stroke after Carotid Surgery in the ACS NSQIP. Quick shot oral presentation; San Antonio, Teas. 5th Annual Academic Surgical Congress. 2010 Feb
5. Gupta PK; Arya S; Natarajan B; Fang X; Gupta H; Balters M; Johanning JM; Lynch TG; Longo GM; MacTaggart JN; Pipinos II. Suprarenal Abdominal Aortic Aneurysm: Which Patients Would Benefit From Fenestrated Endograft Rather Than Open Repair?. Poster at Society of Vascular Surgery Meeting; Chicago, Illinois. 2011
6. Gupta PK; Natarajan B; Gupta H; Fang X; Balters M; Johanning JM; Lynch TG; Forse RA; Longo GM; MacTaggart JN; Pipinos II. Contemporary Outcomes Following Endovascular versus Open Repair of Abdominal Aortic Aneurysm. Poster at Society of Vascular Surgery Meeting; Chicago, Illinois. 2011 Jun
7. Gupta PK; Natarajan B; Reddy YM; Gupta H; Balters M; Johanning JM; Lynch TG; Longo GM; MacTaggart JN; Pipinos II. Open Revascularization for Chronic Mesenteric Ischemia. Poster at Society of Vascular Surgery Meeting; Chicago, Illinois. 2011 Jun
8. Gupta PK; Natarajan B; Reddy YM; Gupta H; Balters M; Johanning JM; Lynch TG; Forse RA; Longo GM; MacTaggart JN; Pipinos II. Thirty Day Outcomes Following Brachiocephalic and Brachiobasilic Arteriovenous Fistula Formation: National Benchmarks for Standard of Care. Society of Vascular Surgery Meeting; Chicago, Illinois. 2011 Jun
9. Gupta PK; Arya S; Natarajan B; Fang X; Gupta H; Balters M; Johanning JM; Lynch TG; Longo GM; MacTaggart JN; Pipinos II. Endovascular Repair of Abdominal Aortic Aneurysm Does Not Improve Survival versus Open Repair in Patients Sixty Years or Younger. 2011 Scientific Meeting of the Midwestern Vascular Surgical Society; Chicago, Illinois. 2011 Sep
10. Gupta PK; Arya S; Natarajan B; Fang X; Gupta H; Balters M; Johanning JM; Lynch TG; Longo GM; MacTaggart JN; Pipinos II. Suprarenal Abdominal Aortic Aneurysm: Which Patients Would Benefit More from Branched or Fenestrated Endograft Repair Rather than Open Repair?. 2011 Scientific Meeting of the Midwestern Vascular Surgical Society; Chicago, Illinois. 2011 Sep
11. Kamenskiy AV; Dzenis YA; MacTaggart JN; Lynch TG; Kazmi SA; Pipinos II. Nonlinear Mechanical Behavior of the Common External and Internal Carotid Arteries In Vivo. 35th Annual Meeting of the Midwestern Vascular Surgical Society; Chicago, IL. 2011 Sep

12. Kamenskiy AV; Pipinos II; MacTaggart JN; Dzenis YA. Evaluation of Predictive Capabilities of Fung-Type and Structurally-Motivated Constitutive Models for Describing the Complex Mechanical Behavior of Soft Tissues. 48th Annual Technical Conference of Society of Engineering Science; Evanston, IL. 2011 Oct
13. Kamenskiy AV; Pipinos II; MacTaggart JN; Dzenis YA. Nonlinear Coupled Modeling of Patched Carotids: Towards Biomechanics-Assisted Optimization of Grafts and Surgery Intentions. 4th International Conference on the Mechanics of Biomaterials and Tissues; Big Island, HI. 2011 Dec
14. Bikhchandani J; Kamenskiy AV; Talukdar A; Mukkai DK; Otuwa N; Dzenis Y; Pipinos II; MacTaggart JN. Changes in Carotid Artery Geometry Following Revascularization: Endarterectomy Versus Stenting. 7th Annual Academic Surgical Congress; Las Vegas, NV. 2012 Feb

H. PUBLISHED AUDIOVISUAL OR COMPUTER-BASED EDUCATIONAL MATERIALS AND COMPUTER SOFTWARE

Not Applicable

I. PUBLISHED CONTINUING EDUCATION MATERIALS

Not Applicable

J. EDITORIALS

Not Applicable

K. CONFERENCE PROCEEDING

1. Kamenskiy AV; Dzenis YA; Desyatova AS; Lynch GT; MacTaggart JN; Pipinos II. Toward Optimal Hemodynamics in the Endarterectomized Carotid: A Finite Element Study: 5th Annual Academic Surgical Congress; 2010 Feb 3-5; San Antonio, TX; 2010 Feb. 302
2. Kamenskiy AV; Dzenis YA; MacTaggart JN; Johanning JM; Longo GM; Lynch GT; Pipinos II. Biaxial Mechanical Properties of the Human Carotid Artery and Materials Used For Patch Angioplasty: 34th Annual Meeting of the Midwestern Vascular Surgical Society; 2010 Sep 9-11; Indianapolis, IN; 2010 Sep. 98
3. Kamenskiy AV; Dzenis YA; MacTaggart JN; Lynch GT; Kazmi SA; Pipinos II. Nonlinear Mechanical Behavior of the Common, External and Internal Carotid Arteries in Vivo: 35th Annual Meeting of the Midwestern Vascular Surgical Society; 2011 Sep 15-17; Chicago, IL; 2011 Sep. 114
4. Kamenskiy AV; Pipinos II; MacTaggart JN; Dzenis YA. Evaluation of Predictive Capabilities of Fung-Type and Structurally-Motivated Constitutive Models for Describing the Complex Mechanical Behavior of Soft Tissues: 48th Annual Technical Conference of Society of Engineering Science; 2011 Oct 12-14; 2011 Oct
5. Kamenskiy AV; Pipinos II; MacTaggart JN; Dzenis YA. Comparative Analysis of Strain-Based and Invariant-Based Soft Tissue Constitutive Models: Experimental Evaluation of Predictive Capabilities: 4th International Conference on the Mechanics of Biomaterials and Tissues; 2011 Dec 11-15; 2011 Dec
6. Kamenskiy AV; Bikhchandani J; Pipinos II; Gupta PK; Dzenis YA; MacTaggart JN. Geometric and Hemodynamic Effects of Carotid Artery Stenting: The American College of Surgeons 2012 Clinical Congress; Sep 30 - Oct 4; Chicago, IL; 2012. 158-159
7. Bikhchandani J; Kamenskiy AV; Talukdar A; Mukkai DK; Otuwa N; Dzenis Y; Pipinos II; MacTaggart JN. Changes in Carotid artery Geometry Following Revascularization: Endarterectomy versus Stenting: 7th Annual Academic Surgical Congress; 2012 Feb 14-16; 2012 Feb

EDUCATION/TEACHING ACTIVITY

A. COURSES, INDIVIDUAL TAUGHT

M3 Peripheral Vascular Disease

UNMC 2012 - 2014

Engineering Senior Design Project

Lecture: University of Nebraska at Lincoln 2012 - 2013

M4 Surgery Boot Camp Suturing Workshop

Lecture: UNMC 2013 - Present

B. RESIDENT INSTRUCTION

General Surgery Resident Vasc Exposures Cadaver La

UNMC 2012 - Present

C. ADDITIONAL INSTRUCTION

CASEA research lab trainee mentoring UNMC 2013 - Present

ESTARS

Endovascular Skills for Trauma and Resuscitative Surgery UNMC organize an institutional effort to partner with the University of Michigan and the Department of Defense to help disseminate endovascular knowledge and techniques to military and civilian trauma care providers on a national level. 2015 - Present