

CURRICULUM VITAE

PERSONAL DATA

Name: **Jason Michael Johanning**
Office Address: Department of Surgery – Vascular Surgery
982500 University of Nebraska Medical Center
Omaha, NE 68198-2500
Telephone: Work: (402) 559-9549
Fax: (402)559-8985

EDUCATION

High School	Rockhurst High School Kansas City, MO	Aug 1982 - May 1986
Undergraduate School	Northwestern University Evanston, IL Bachelor of Arts, Psychology	Aug 1986 – May 1990
Medical School	University of Kansas Medical Center Kansas City, KS Doctor of Medicine	Aug 1990 – May 1994
Graduate School	University of Nebraska Medical Center Omaha, NE Master of Science	Aug 2009 – Aug 2013

POSTDOCTORAL TRAINING:

Residency	Saginaw Cooperative Hospitals, Inc. Saginaw, MI General Surgery	May 1994 – Jun 1999
Vascular Fellowship	Geisinger Medical Center Danville, PA Vascular Surgery	Jul 1999 – Jun 2001

Specialty Training

Endovascular Training

- Abdominal and Thoracic Aortic Stent Grafts
- Carotid Artery Stenting

Laparoscopic and Robotic Vascular Surgery

Endovenous Laser Therapy

Masters of Science

University of Nebraska Medical Center

Clinical and Translational Research with Health Systems Focus

FOCUSED AREAS OF INTEREST

1. FRAILTY ASSESSMENT AND THE SURGICAL PATIENT a. INVITED SPEAKER-Multiple VA and Private HealthCare Systems b. CMS Grand Rounds 2018 c. POSTOPERATIVE DELIRIUM GUIDELINES COMMITTEE d. ACS/JOHN A. HARTFORD GERIATRIC TASK FORCE PARTICIPANT e. 2014 HEALTH AND AGING POLICY FELLOW **2. BIOMECHANICS AND PERIPHERAL ARTERIAL DISEASE** a. DENNIS W. JAHNIGEN CAREER DEVELOPMENT AWARD b. VA MERIT AWARD-RANDOMIZED INTERVENTION Trial c. MENTOR TO SARA MYERS PhD i. FUNDED R01 CARBON FIBER AFO Trial **3. ADMINISTRATIVE ROLES AND RESPONSIBILITIES** a. VICE CHAIR of SURGERY: Quality and Compliance; UNMC b. VISN 23 CHIEF SURGICAL CONSULTANT c. ACTING CHIEF MEDICAL OFFICER VISN 23-Current d. COMMITTEE MEMBER VHA OPERATING ROOM HVAC WORKGROUP e. COMMITTEE MEMBER JOINT EHR PROGRAM OFFICE f. ON-SITE ACTING CHIEF OF SURGERY PHOENIX VA g. SITE VISITOR FOR VA PROGRAM REVIEW h. Leadership Acceleration: NWI VA_Teaching and Curriculum Development in;

Collaboration with experts in Leadership (Bruce Avolio), Fortune 500 CEO (Ray Swartz), Surgical Education (Thomas G. Lynch, MD) Hospital CEO and VA Network Director (Al Washko)

4. CLINICAL FOCUS

a. RAPID PREOPERATIVE ASSESSMENT OF THE SURGICAL PATIENT

i. Frailty4Site Participant b. CHRONIC COMPARTMENT SYNDROME c. CAROTID ARTERY RISK ASSESSMENT i. Stroke QUERI Workgroup VA ii. Frailty for Risk Stratification: Short- and Long-Term Outcomes

ACADEMIC/STAFF APPOINTMENT

University of Nebraska Medical Center

Department of Surgery, Section of Vascular Surgery
Omaha, Nebraska

- Chief of Vascular Surgery 2009 –2011
- Associate Chief of Vascular Surgery 2008 –2009
- Assistant Professor 2001 – 2007
- Associate Professor of Surgery 2007 – 2011
- Professor of Surgery 2011 – Present
- Vice Chair of Surgery: Quality and Compliance 2018 -- Present

Nebraska/Western Iowa VA Medical Center

Department of Surgery, Section of Vascular Surgery
Omaha, Nebraska

- Chief of Surgery 2009-2014
- Acting Chief of Surgery 2007-2009
- Attending Vascular Surgeon 2001 – Present

VISN 23 VHA Surgical/Specialty Care Service Line

- Chief Surgical Consultant 2012-2014
- Medical Director, Surgical Service Line 2014-Present

Creighton University

Department of Surgery, Section of Vascular Surgery
Omaha, Nebraska

- Clinical Instructor of Vascular Surgery 2005 – Present

Michigan State University

College of Human Medicine
Lansing, Michigan

- Clinical Instructor 1994-1999

LICENSURE

State of Nebraska License

License #: 21894

Issued: August 6, 2001

Expires: October 1, 2024

State of Michigan License (Inactive)

License #: 4301064030

Issued: July 29, 1996

Expired: January 31, 2000

State of Pennsylvania License (Inactive)

License #: MD069508L

Issued: August 2, 2009

Expired: December 31, 2004

State of Pennsylvania License (Inactive)

License #: MT044519T

Issued: June 30, 2000

Expired: June 29, 2001

Federal DEA License

Issued: December 05, 2013

Expires: December 31, 2025

CERTIFICATION

Diplomat American Board of General Surgery

Certificate #: 45375

Issued: September 2000

Recertified: February 2010

Expires: January 20, 2024

Diplomat American Board of Vascular Surgery

Certificate #: 101230

Issued: May 2002

Expires: January 20, 2024

Advanced Cardiac Life Support (ACLS)

Issued: June 2021

Expires: June 2025

Basic Life Support (BLS)

Issued: February 2021

Expires: February 2025

GRANT SUPPORT

PROVE-AAA: Alignment of Treatment Preferences and Repair Type for Veterans with AAA

Funding Agency: Veterans Administration-IIR 15-085 – HSR&D Study

Primary Investigator Philip Goodney, MD, MS

Site Investigator: Jason Johanning, MD, MS

Frailty4Site

Funding Agency: Vascular Cures Foundation

Funded: \$100,000

Primary Investigator Larry Kraiss, MD

Site Investigator: Jason Johanning, MD, MS

Gait after intervention trial in peripheral arterial disease

Funding Agency: Veterans Administration, Musculoskeletal/Orthopedic Rehabilitation
R01 RX000604-01

Project Period: January 1, 2013 – December 31, 2017

Funded: \$697,047

Primary Investigator: Jason Johanning, MD

Mitochondrial Dysfunction, Oxidative Damage and Inflammation in Claudication

Funding Agency: National Institutes of Health 1 R01 AG034995

Project Period: September 1, 2010 – September 30, 2015 (extended to 5/31/16)

Funded: \$5,681,233

Primary Investigator: Iraklis Pipinos

Role: Co-Investigator

The goal of the study is to determine the factors related to ischemic injury to muscular tissue of the lower extremity in patients with PAD.

Technologies for Hemostasis and Stabilization of the Acute Traumatic Wound

Funding Agency: Department of Defense

Project Period: August 1, 2010-August 31, 2015

Funded: \$5,760,000

Primary Investigator: Mark A. Carlson

Role: Co-Investigator

The goal of this study is to develop a novel recombinant bandage for battlefield use utilizing factors 1,2, and 13.

Evaluation of Gait Abnormalities in Geriatric Patients Induced by Peripheral Arterial

Disease Utilizing Advanced Biomechanical Measures

Funding Agency: 2006 Dennis W. Jahnigen Career Development Scholars Award American Geriatrics Society
Dates: July 2006-June 2008
Funded: \$200,000
Primary Investigator: Jason M. Johanning
Co-Investigators: Nick Stergiou, PhD., Brenda Keller, MD, B. Timothy Baxter, MD, Iraklis Pipinos, MD, Gregory M. Karst, PhD, PT and Dawn M. Venema, PT
Description: Multidisciplinary grant between the Vascular Surgery Department, Geriatric Department, the Biomechanics Department at the University of Nebraska Omaha and the Physical Therapy Department of the University of Nebraska Medical Center to evaluate gait abnormalities in elderly patients with PAD.

A Comprehensive Program to Strengthen Physicians Training in Geriatrics in Nebraska

Funding Agency: The Donald W. Reynolds Foundation
Dates: July 2001 - June 2005
Funded: \$1,997,188
Primary Investigator: Jane F. Potter
Co-Investigator: Jason M. Johanning
Description: Educational grant to promote inter-disciplinary geriatric education at the University of Nebraska Medical Center

“OVER Trial-Open vs. Endovascular Repair of Abdominal Aortic Aneurysms”

Funding Agency: Omaha Western Iowa VA
Dates: 10/15/02 – 10/2011
Funded: \$21,833,180.00
Primary Investigator: Omaha VA: Iraklis I. Pipinos, MD
Co-Investigator: Jason M. Johanning, MD
Description: Clinical participant in a trial to establish the efficacy of open versus endovascular surgery in the repair of abdominal aortic aneurysms

University of Nebraska Foundation Equipment Grant

Funding Agency: ENO-20 Nitric Oxide Analyzer
Dates: July, 2003
Funded: \$36,000
Primary Investigator: Jason M. Johanning, MD
Description: The Nitric Oxide Analyzer was utilized to pursue tissue and plasma nitric oxide levels of patients and animals with aortic aneurysms.

Faculty Educational Support Grant

Funding Agency: University Nebraska College of Medicine
Dates: March 2003
Funded: \$3,700.00
Primary Investigator: Jason M. Johanning, MD

Description: Support to pursue research in educational learning styles.

PATENTS

Isolation Station: Dedicated Isolation Cart for Distribution of isolation equipment in a no-touch fashion for patients in isolation precautions.

Rapid Frailty Assessment: Patent pending on multiple devices used to rapidly capture and assess frailty during standard workflow of a clinic appointment.

APPOINTMENTS

National Board of Medical Examiners Step 3 CCS Scripting and Scoring Committee	2010-2016
Adjunct Faculty University of Nebraska Omaha	2007 - Present
Graduate Faculty University of Nebraska	2007 – Present
Assistant Medical Student Clerkship Director-General Surgery	2005 – 2014
Director Rural Surgery Outreach	2004 - Present
Faculty Mentor Surgery Student Rotation University of Nebraska Medical Center	2005 - Present
Moderator Surgery Interest Group	2002 - 2014
Director Surgical Geriatrics Education	2003 - 2009
Problem Based Learning Course Facilitator	2001 - 2002
Coordinator Resident Education Seminar	2002 – 2005

EDITORIAL AND JOURNAL POSITIONS

Journal of the American Geriatrics Society Editorial Board	2008 –2017
Journal of the American Geriatrics Society Associate Editor: Aging and Surgery	2008 –2017
Journal of the American Geriatrics Society Assistant Section Editor: Geriatric Literature Review Section	2008 – 2010
Journal of Vascular Surgery Key Reviewer	2008 - Present
Annals of Vascular Surgery Reviewer	2008 – Present
JAMA-Surgery Reviewer	2012 - Present
McMaster Online Rating of Evidence (MORE)	2013 - Present
Annals of Surgery Reviewer	2014 - Present

HONORS & AWARDS

Third Place AMA/GOOGLE Health Care Interoperability and Innovation Challenge 2018 https://ama-ihmi.org/posts/10521 https://www.beckershospitalreview.com/healthcare-information-technology/ama-selects-3-winners-ofgoogle-sponsored-mhealth-challenge.html	
Alpha Omega Alpha	2014
Health and Aging Policy Congressional Fellow VHA/Atlantic Philanthropy/American Political Science Association	2014-2015
Dennis W. Jahnigen Career Development Scholars Award	2006
Venous Research Award-Second Award 14 th Annual American Venous Forum	2002
Geisinger Resident Research Day	2001

First Place	
Housestaff Excellence in Teaching Award	1996, 1997
Michigan State Medical School	1998, 1999
Covenant Fund Resident Award	1996, 1998
Michigan State Resident Research Day	1996
First Place	
Saginaw Cooperative Research Day	1996, 1997
First Place	1998
J.E. Manning Research Day-First Award	1998
Second Award	1995, 1996
	1998, 1999
SLS Outstanding Laparoendoscopic	1997
Surgical Resident Award	
Orr Surgery Award Candidate	1993

MEMBERSHIPS AND PROFESSIONAL SOCIETIES

Society for Vascular Surgery VA Committee	2016
Alpha Omega Alpha	2014
Society of University Surgeons	2011-Present
Association of VA Surgeons	2009-Present
Vice President of AVAS Foundation	2014-Present
Physician Quality Improvement Committee	2011-Present
Continuing Medical Education Committee	2010-Present
CIM Committee	2009-Present
American Geriatrics Society	2008-Present
Fellow American College of Surgeons	2003-Present
Association for Academic Surgery	2002-Present
Society of Vascular Surgery	2002-Present
Association of VA Surgeons	2001-Present
Peripheral Vascular Surgery Society	2001-2010
American College of Surgeons Candidate Group	1994-2003
American Medical Association	1990-2004
Organization of Student Representatives	1991-1994

GUIDELINE PANEL

Postoperative Delirium Guideline Panel American Geriatrics Society/ American College of Surgeons	2013-Present
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COMMITTEES

Association of VA Surgeons Foundation	2014-Present
UNMC Curriculum Committee Ad Hoc Task Force-Member	2010-Present
Cardiovascular Chief Search Committee-Chair	2010-2012
Ophthalmology Chair Search Committee-Member	2010-2012
SUS/AAS National Meeting Coordinator: Hot Topics Vascular Surgery	2010
Writing Committee "Vascular Lab Reporting Standards"	2007- 2009
Doctoral Development Committee Member University of Nebraska Omaha	2008 - 2011
Curriculum Committee Member General Surgery Student Clerkship	2005 - 2008
Southwestern Surgical Research and Publication Committee	2003 - 2005
Endovascular Biplane Committee	2003 - 2011
Pharmacy and Therapeutics Committee The Nebraska Medical Center	2003 - 2009
Co-Chair Operation Stroke-Omaha American Stroke Association	2002 - 2004
Transfusion Committee The Nebraska Medical Center	2002 - 2005
Department of Surgery Promotion and Tenure Committee	2001

Institutional Review Board
Saginaw Cooperative Hospitals, Inc. 1995 - 1999

Quality Assurance Peer Chart Review 1995

COMMUNITY SERVICE

Chairman of Operation Stroke 2002 – 2003

BIBLIOGRAPHY

PUBLICATIONS

1. **Johanning JM**, Gruenberg J: AEIOU: the ABC's" of conversion from laparoscopic to open cholecystectomy. Journal of the Society of Laparoendoscopic Surgeons, 1(2):1813, Apr-Jun 1997.
2. **Johanning JM**, Gruenberg JC: The changing face of cholecystectomy. American Surgeon, 64(7):643-7; discussion 647-8, Jul 1998.
3. **Johanning JM**, Veverka TJ, Bays RA, Tong GK, Schmiege SK: Evaluation of suspected pulmonary embolism utilizing end-tidal CO2 and D-dimer. American Journal of Surgery, 178(2):98-102, Aug 1999.
4. **Johanning JM**, Franklin DP, Han DC, Carey DJ, Elmore JR: Inhibition of inducible nitric oxide synthase limits nitric oxide production and experimental aneurysm expansion. Journal of Vascular Surgery, 33(3):579-86, Mar 2001.
5. Carsten CG, Calton WC, **Johanning JM**, Franklin DP, Han DC, Carey DJ, Elmore JR: Elastase is not sufficient to induce experimental abdominal aortic aneurysms. Journal of Vascular Surgery, 33(6):1255-62, Jun 2001.
6. **Johanning JM**, Franklin DP, Elmore JR, Han DC: Femoral artery infections associated with percutaneous arterial closure devices. Journal of Vascular Surgery, 34(6):983-5, Dec 2001.
7. **Johanning JM**, Armstrong PJ, Franklin DP, Han DC, Carey DJ, Elmore JR: Nitric oxide in experimental aneurysm formation: early events and consequences of nitric oxide inhibition. Ann Vasc Surg, 16(1):65-72, Jan 2002.
8. Armstrong PJ, **Johanning JM**, Calton WC Jr, Delatore JR, Franklin DP, Han DC, Carey DJ, Elmore JR: Differential gene expression in human abdominal aorta: Aneurysmal versus occlusive disease. Journal of Vascular Surgery, 35(2):346-55, Feb 2002.

9. Chad D. Ringley, MD, **Jason M. Johannig**, MD, James C. Gruenberg, MD, Thomas J. Veverka, MD, Kimberly Barber, MS: Evaluation of pulmonary arterial catheter parameters utilizing intermittent pneumatic compression boots in congestive heart failure. *American Surgeon*, 68(3):286-290, Mar 2002.
10. **Johanning JM**, Franklin DP, Thomas DD, Elmore JR: D-dimer and calf circumference in the evaluation of outpatient deep venous thrombosis. *Journal of Vascular Surgery*, 36(5):877-80, Nov 2002.
11. Baxter BT, **Johanning JM**: Doxycycline as a means of decreasing abdominal aortic aneurysm growth: will it work? *Gefasschirurgie*, 7(4)240-243, 2002.
12. Oleynikov D, Verner L, **Johanning JM**, McBride CL, Zukov L: Objective Skill Assessment of Surgical Residents Using Flight Path Analysis from Da Vinci Robotic Surgery System. *Surg Endosc*, 17:S203, 2003.
13. Sterrett SP, Mercer D, **Johanning JM**, Botha JF: Salvage of renal allograft using venous thrombectomy in the setting of iliofemoral venous thrombosis. *Nephrol Dial Transplant*, 19: 1-3, 2004.
14. Xie F, Tsutsui JM, Lof J, Unger EC, **Johanning JM**, Culp WC, Matsunaga T, Porter TR: Effectiveness of lipid microbubbles and ultrasound in declotting thrombosis. *Ultrasound Med Biol*, 31(7):979-85, 2005.
15. Pipinos, II, **Johanning JM**, Pham CN, Soudarajan K, Lynch TG: Transcervical approach with protective flow reversal or filter placement for the performance of carotid angioplasty and stenting. *J Endovasc Ther*, 12 (4):446-53, Jul-Aug 2005.
16. Buda SJ, **Johanning JM**: Brachial, radial, and ulnar arteries in the endovascular era: choice of intervention. *Sem Vasc Surg*, 18(4):191-195, Aug 2005.
17. 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(1):180-183, Jan 2006.
18. Tsutsui JM, Zie F, **Johanning JM**, Lof J, Cory B, He A, Thomas L, Matsunaqa T, Unger E, Porter TR: Treatment of deeply located acute intravascular thrombi with therapeutic ultrasound guided by diagnostic ultrasound and intravenous microbubbles. *Ultrasound Med*, 25(9):1161-8, 2006.
19. Pipinos II, Judge AR, Zhu Z, Selsby JT, Swanson SA, **Johanning JM**, Baxter BT, Lynch TG, Dodd SL: Mitochondrial defects and oxidative damage in patients with peripheral arterial disease. *Free Radic Bio Med*, 41(2):262-9, Jul 2006.

20. Pipinos II, Bruzoni M, **Johanning JM**, Longo GM, Lynch TG: Transcervical carotid stenting with flow reversal for neuroprotection: Technique, results, advantages, and limitations. *Vasc* 14(5):245-255, Sep-Oct 2006.
21. Garg N, Pipinos II, Longo GM, Thorell WE, Lynch TG, **Johanning JM**: Detachable coils for repair of extraparenchymal renal artery aneurysms: an alternative to surgical therapy. *Ann Vasc Surg*, 21(1):97-110, Jan 2007.
22. Trigilio-Black CM, Ringley CD, McBride CL, Sorensen VJ, Thompson JS, Longo GM, Pipinos II, **Johanning JM**: Inferior vena cava filter placement for pulmonary embolism risk reduction in the super morbidly obese Undergoing Bariatric Surgery. *Surg Obes Relat Dis*, 3(4):461-4, Jul-Aug 2007.
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24. Scott-Pandorf MM, Stergiou N, **Johanning JM**, Robinson L, Lynch TG, Pipinos II. Peripheral arterial disease affects ground reaction forces during walking. *Journal of Vascular Surgery*, (3):491-499, Sept 2007.
25. Celis R, Huisinga J, Pipinos II, Longo GM, Lynch TG, Stergiou N, **Johanning JM**. Gait abnormalities are present prior to the onset of claudication in both young and old claudicants. *Journal of the American College of Surgeons*, 205(3)Supl 1:S110, Sept 2007.
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27. Radovic M, Huisinga JM, Myers SA, Pipinos II, **Johanning JM**, Chen SJ: Effects of vascular surgical treatment on peripheral arterial disease in gait. *J Biomech*, 40(2):S84, 2007.
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29. Myers SA, **Johanning JM**, Stergiou N, Lynch TG, Longo GM, Pipinos II. Claudication distances and the Walking Impairment Questionnaire best describe the ambulatory limitations in patients with symptomatic peripheral arterial disease. *Journal of Vascular Surgery*, 47(3):550-555, Mar 2008.
30. Chen SJ, Pipinos I, **Johanning JM**, Radovic M, Huisinga JM, Myers SA, Stergiou N. Bilateral intermittent claudication results in alterations in the gait biomechanics at the hip and ankle joints. *J Biomech*, 41(11):2506-14, 2008.

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33. Pipinos II, Pisimisis GT, Burjonrappa SC, **Johanning JM**, Matthew Longo G, Lynch TG. One patent intracranial collateral predicts tolerance of flow reversal during carotid angioplasty and stenting. *Annals of Vascular Surgery*, 23(1):32-38, Jan-Feb 2009.
34. Celis R, Pipinos II, Scott-Pandorf MM, Myers SA, Stergiou N, **Johanning JM**. Peripheral arterial disease affects kinematics during walking. *Journal of Vascular Surgery*, 49(1):127-132, Jan 2009.
35. Myers SA, **Johanning JM**, Stergiou N, Celis RI, Robinson L, Pipinos II. Gait variability is altered in patients with peripheral vascular disease. *Journal of Vascular Surgery*, 49(4):924-931, Apr 2009.
36. Garg N, Karagiorgos N, Pisimisis GT, Sohal DP, Longo GM, **Johanning JM**, Lynch TG, Pipinos II. Cerebral protection devices reduce periprocedural strokes during carotid angioplasty and stenting: a systematic review of the current literature. *J Endovas Ther*, 16(4):412-27, Aug 2009.
37. Botha JF., Campos BD, **Johanning J.**, Mercer D., Grant W., Langnas A. Endovascular closure of a hemiportocaval shunt after small-for-size adult-to-adult left lobe living donor liver transplantation. *Liver Transpl*, 15(12):1671-5, Dec 2009.
38. Koutakis P, Pipinos II, Myers SA, Stergiou N, Lynch TG, **Johanning JM** . Joint torques and powers are reduced during ambulation for both limbs in patients with unilateral claudication. *Journal of Vascular Surgery*, 51(1):80-8, Jan 2010.
39. Huisinga JM, Pipinos II, **Johanning JM**, Stergiou N. The effect of pharmacological treatment on gait biomechanics in peripheral arterial disease patients. *J Neuroeng Rehabil*, 7:25, Jun 2010.
40. Huisinga JM, Pipinos II, Stergiou N, **Johanning JM**. Treatment with pharmacological agents in peripheral arterial disease patients does not result in biomechanical gait changes. *J Appl Biomech*, 26(3):341-8, Aug 2010.
41. Koutakis P, Pipinos II, Myers SA, Stergiou N, Lynch TG, **Johanning JM**. Abnormal joint powers before and after the onset of claudication symptoms. *Journal of Vascular Surgery*, 52(2):340-7, Aug 2010.

42. Myers SA, Stergiou N, Pipinos II, **Johanning JM**. Gait variability patterns are altered in healthy young individuals during the acute reperfusion phase of ischemia-reperfusion. *J Surg Res*, 164(1):6-12, Nov 2010.
43. Gupta PK, Pipinos II, Miller WJ, Gupta H, Shetty S, **Johanning JM**, Longo GM, Lynch TG. A population-based study of risk factors for stroke after carotid endarterectomy using the ACS NSQIP database. *J Surg Res*, 167(2):182-91, May 2011.
44. Arya S, Pipinos II, Garg N, **Johanning JM**, Lynch TG, Longo GM. Carotid endarterectomy is superior to carotid angioplasty and stenting for peri-operative and long term results. *Vasc Endovascular Surg*. June 2011. *Epub ahead of print*.
45. Gupta PK, Gupta H, Sundaram A, Kaushik M, Fang X, Miller WJ, Esterbrooks DJ, Hunter CB, Pipinos II, **Johanning JM**, Lynch TG, Forse RA, Mohiuddin SM, Mooss AN. Development and validation of a risk calculator for prediction of cardiac risk after surgery. *Circulation*, 124(4):381-7, July 2011.
46. Myers S., Pipinos II., **Johanning JM**, Stergiou N. Gait variability of patients with intermittent claudication is similar before and after the onset of claudication pain. *J Biomech*, 26(7):729-734, August 2011.
47. Wurdeman SR, Myers SA, **Johanning JM**, Pipinos II, Stergiou N. External work is deficient in both limbs of patients with unilateral PAD. *Med Eng Phys*. 2012
48. Gupta H, Fang X, Balters M, **Johanning JM**, LongoGM, Mactaggart JN, Pipinos II. Endovascular Repair of Abdominal Aortic Aneurysm does not Improve Early Survival versus Open Repair in Patients Younger than 60Years. *Eur J Vasc Endovasc Surg*. 2012 Feb 29.
49. McGrath D, Judkins TN, Pipinos II, **Johanning JM**, Myers SA. Peripheral arterial disease affects the frequency response of ground reaction forces during walking. *Clinical Biomechanics*. 27: 1058-1063. 2012
50. Ramanan B, Gupta PK, Sundaram A, Lynch TG, MacTaggart N, Baxter BT, **Johanning JM**, Pipinos II. In-hospital and post discharge venous thromboembolism after vascular surgery. *Journal of Vascular Surgery*. 57: 1589-1596. 2013.
51. Weiss DJ, Casale GP, Koutakis P, Nella AA, Swanson SA, Zhu Z, Miserlis D, **Johanning JM**, Pipinos II. Oxidative damage and myofiber degeneration in the gastrocnemius of patients with peripheral arterial disease. *Journal of Translational Medicine*. 11: 2013.
52. 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: 871-878. 2013.

53. Ramanan B, Gupta PK, Sundaram A, Lynch TG, MacTaggart JN, Baxter BT, **Johanning JM**, Pipinos II. In-hospital and post discharge venous thromboembolism after vascular surgery. *Journal of Vascular Surgery*. 2013.
54. Thompson, JR, Swanson SA, Casale GP, **Johanning JM**, Papoutsi E, Koutakis P, Miserlis D, Zhu Z, Pipinos II. Gastrocnemius mitochondrial respiration: are there any differences between men and women? *Journal of Surgical Research*. 2013.
55. 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: 318-326. 2013.
56. Gupta PK, Sundaram A, MacTaggart JN, **Johanning JM**, Gupta H, Fang X, Forse RA, Balters M, Longo GM, Sugimoto JT; et al. Preoperative anemia is an independent predictor of postoperative mortality and adverse cardiac events in elderly patients undergoing elective vascular operations. *Annals of Surgery*. 2013.
57. 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. *Ann Surg*. 2013 Dec;258(6):1096-1102.
58. Johnson MS, Bailey TL, Schmid KK, Lydiatt WM, **Johanning JM**. A Frailty Index Identifies Patients at High Risk of Mortality after Tracheostomy. *Otolaryngol Head Neck Surg*. 2014 Jan 16.
59. Thompson JR, Swanson SA, Haynatzki G, Koutakis P, **Johanning JM**, Reppert PR, Papoutsi E, Miserlis D, Zhu Z, Casale GP, Pipinos II. *Ann Surg*. 2014 Mar 25. Protein Concentration and Mitochondrial Content in the Gastrocnemius Predicts Mortality Rates in Patients With Peripheral Arterial Disease.
60. Carlson MA, Calcaterra J, **Johanning JM**, Pipinos II, Cordes CC, Velander WH. A totally recombinant human fibrin sealant. *Journal of Surgical Research*, 187:334-342. March, 2014.
61. Yanala UR, **Johanning JM**, Pipinos II, Larsen G, Velander WH, Carlson MA. Development of a fatal noncompressible truncal hemorrhage model with combined hepatic and portal venous injury in normothermic normovolemic swine. *PLoS ONE*, 9(9):c108293. September, 2014.
62. Katherine Ernst , Daniel Hall , Kendra Schmid , Georgia SeEVERS , Pierre Lavedan , Thomas Lynch , **Jason Johanning**. Surgical palliative care consultations over time in relation to system wide frailty screening. *JAMA Surg*. 2014 Sep 10.

63. Anaya DA, **Johanning J**, Spector SA, Katlic MR, Perrino AC, Feinleib J, Rosenthal RA. What's the Big Deal About Frailty? Summary of the Panel Session at the 38th Annual Surgical Symposium of the Association of VA Surgeons. *JAMA Surg.* 2014 Sep 17.
64. Jennifer G. Dwyer, Jason F. Reynoso MD, Georgia A. Seevers, Kendra K. Schmid PhD, Padmashri Muralidhar, Beau Konigsberg MD, Thomas G. Lynch MD, **Jason M. Johanning MD**. Assessing Preoperative Frailty Utilizing Validated Geriatric Mortality Calculators and their Association with Postoperative Hip Fracture Mortality Risk. *Geriatric Orthopaedic Surgery & Rehabilitation. Geriatr Orthop Surg Rehabil.* 2014 Sep;5(3):109-15.
65. Melin AA, Schmid KK, Lynch TG, Pipinos II, Kappes S, Matthew Longo G, Gupta PK, **Johanning JM**. Preoperative frailty Risk Analysis Index to stratify patients undergoing carotid endarterectomy. *J Vasc Surg.* 2014 Dec 8. pii: S0741-5214(14)01872-2.
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108. Keyhani S, Cheng EM, Hoggatt KJ, Austin PC, Madden E, Hebert PL, Halm EA, Naseri A, **Johanning JM**, Mowery D, Chapman WW, Bravata DM. Comparative Effectiveness of Carotid Endarterectomy vs Initial Medical Therapy in Patients With Asymptomatic Carotid Stenosis. *JAMA Neurol*. 2020 Sep 1;77(9):1110-1121. doi: 10.1001/jamaneurol.2020.1427.
109. Molly N. Schieber, MS,^a Iraklis I. Pipinos, MD, PhD,^{b,c} **Jason M. Johanning, MD**,^{c,d} George P. Casale, PhD,^c Mark A. Williams, PhD,^d Holly K. DeSpiegelaere, BSN, RN,^b Benjamin Senderling, MS,^a and Sara A. Myers, PhD^{a,b} - Supervised Walking Exercise Therapy Improves Gait Biomechanics in Patients with Peripheral Artery Disease. *J Vasc*

Surg. 2020 Feb; 71(2): 575–583. Published online 2019 Aug 20. doi: 10.1016/j.jvs.2019.05.044, PMCID: PMC7012697 NIHMSID: NIHMS1533745 PMID: 31443974 abstract

BOOK CHAPTERS

1. **Johanning JM**, Baxter BT. “Transperitoneal versus Retroperitoneal Approach to the Aorta” In Current Surgical Therapy: 8th Edition D John L. Cameron (Ed.): 721-732, Mosby 2004.
2. Buda SJ, **Johanning JM**: Brachial, radial, and ulnar arteries in the endovascular era: choice of intervention. *Semin Vasc Surg*, 18(4):191-195, Dec 2005.
3. **Johanning JM**. *Surgery: A Competency Based Companion. Evaluation of Lower Extremity Swelling*. Barry Mann, (Ed.): 281-291, Elsevier; London 2007.
4. **Johanning JM**. *Ham’s Primary Care Geriatrics. A Case Based Approach*. Richard J. Ham, MD, Philip D. Sloane, MD, MPH, Gregg A. Warshaw, MD, Jane F. Potter, MD and Ellen Flaherty, PhD, APRN, BC. *Peripheral Vascular Disease*. Saunders; 2014.
5. **Johanning JM**. *Hazzard's Geriatric Medicine and Gerontology, Seventh Edition 7th* Jeffrey B. Halter, Joseph G. Ouslander, Stephanie Studenski, Kevin P. High, Sanjay Asthana, Mark A. Supiano, Christine S. Ritchie. *Peripheral Vascular Disease*. McGraw Hill 2017
6. **Johanning JM**. *Vascular Disease in Older Adults: A comprehensive clinical guide*. Rabih Chaer (Eds): *Preoperative Optimization of the Elderly Patient Prior to Vascular Surgery*. Springer 2017.
7. **Johanning JM**. Lynch TG. *Rutherford Vascular Surgery 9th Edition*. Sidawy A, Perler B, *Clinical Evaluation of the Venous and Lymphatic Systems*. Elsevier. Publication Pending

PUBLISHED REFEREED ABSTRACTS

1. Myers, S., Huisinga, J., **Johanning, JM.**, Pipinos, I. and Chen, (2006) Ground reaction forces in patients with unilateral peripheral arterial disease. *Proceedings of the 30th Annual Meeting of the American Society of Biomechanics*. Blacksburg, Virginia, pp in cd-rom.
2. Huisinga, J., Myers, S., **Johanning, JM.**, Pipinos, I. and Chen, S. (2006) The effect of pharmacologic therapy on kinetic gait parameters in patients with peripheral arterial disease. *Proceedings of the 30th Annual Meeting of the American Society of Biomechanics*. Blacksburg, Virginia, pp in cd-rom.

3. Chen, S., Pipinos, I., **Johanning, JM.**, Huisinga, J. and Myers, S. (2006) The effect of claudication on joint moments during walking. Proceedings of *the 30th Annual Meeting of the American Society of Biomechanics*. Blacksburg, Virginia, pp in cd-rom.
4. Myers, S., Stergiou, N., Pipinos, I., **Johanning, JM.**, and Kochi, N. (2007). Peripheral arterial disease causes alterations in the variability of gait patterns. *Proceeding of the 31st Annual Meeting of the American Society of Biomechanics*. Stanford, California, pp in cd-rom.
5. Radovic, M., Huisinga, J., Myers, S., Pipinos, I., **Johanning, JM.**, and Chen, S. (2007). Effects of vascular surgical treatment on peripheral arterial disease in gait. *XXI Congress of the International Society of Biomechanics*, Taipei, Taiwan.
6. Chen, S., Huisinga, J., Myers, S., Radovic, M., Pipinos, I., **Johanning, JM.**, Stergiou, N. The effects of peripheral arterial disease on gait stability. (2007). *XXI Congress of the International Society of Biomechanics*, Taipei, Taiwan.
7. Myers, S., Pipinos, I., **Johanning, JM.**, Stergiou, N. (2008) Induced lower extremity vascular occlusion affects gait. *Proceedings of the 32nd Annual Meeting of the American Society of Biomechanics*. Ann Arbor, MI.
8. Myers, S., Stergiou, N., **Johanning, JM.**, Pipinos, I., Chen, S., Blanke, D. (2008). Nonlinear measures indicate gait variability is altered by peripheral arterial disease. *Journal of Sport and Exercise Psychology*, 30(supplement): S112.
9. **Jason Johanning MD**, FACS; Mark A. Carlson MD, FACS; Travis Bailey MD; Neil B. Huben BS; Georgia A. Seevers RN; Tammy Bockman RN; Matthew Goede MD, FACS; Thomas G. Lynch MD, FACS. Implementation and Validation of a Bedside Frailty Index to Improve Surgical Decision-Making. 2013 American College of Surgeons Annual Meeting
10. Casale GP, Julian Kyung SK, **Johanning JM**, Pipinow II, Koutakis P, Dimitrios M, Zhen Z, Papoutsi E, Ha DM, Swanson SA, Carpenter LA, Myers SA (2014). Abstract 15850: Desmin Expression is Abnormal in Myofibers of the Gastrocnemius of Patients With Peripheral Arterial Disease and is Associated With Impaired Mitochondrial Respiration and Reduced Muscle Strength. *Circulation*, 130: A15850.
11. Yanala UR, **Johanning JM**, Pipinos II, Velander WH, Carlson MA. Development of a porcine model of severe noncompressible truncal hemorrhage. *Journal of Surgical Research*, 186:510. 2014.
12. Tucker P, Flink B, Varley P, Hall D, **Johanning J**, Clevenger C, Tomolo A, Arya S. Utilization and Standardization of a RAI-Frailty Screening Across Multi-Disciplinary Surgical Clinics: A Quality Improvement Initiative. VA Quality Scholars program plenary session 2016 Atlanta.

SUBMITTED REFEREED ABSTRACTS

1. Karst GM, Venema DM, **Johanning JM**. Balance Deteriorates with Intermittent Claudication in a Patient with Peripheral Arterial Disease: A Case Report Physical Therapy 2009: The Annual Conference and Exposition of the American Physical Therapy Association.

INVITED PRESENTATIONS:

1. Current Treatment of Acute Deep Venous Thrombosis
OB/GYN Grand Rounds
May 2003
2. Current Treatment of Acute Deep Venous Thrombosis
Creighton Vascular Symposium
August 2003
3. Disconnection of faculty and student learning preferences among medical professionals.
Association of American Medical College National Meeting/Research in Medical Education
November 2003
4. Median arcuate ligament release utilizing a combined laparoscopic and endovascular approach.
First International Endovascular and Laparoscopic Congress
May 2003
5. Arterial Plumbing 101.
2004 Dilemmas in Wound Care Symposium
April 2004
6. Nitric oxide and AAA: Active Participant or Innocent Bystander
Midwest Vascular Surgery Society
Basic Science Plenary Session
Invited Speaker
September 9, 2004
7. Peripheral Arterial Disease
Faculty: Family Practice Review Course
University of Nebraska Family Practice
Invited Speaker
2002-2005
8. Peripheral Arterial Disease and Gait Abnormalities in the Elderly
Creighton University Medical Center
May 2007

9. Impact of Peripheral Arterial Disease in the Gait of Elderly Patients
Fifth Annual Hartford Interdisciplinary Scholars Communications Conference
Chicago, Illinois
July 16-18, 2007

10. Induced Lower Extremity Vascular Occlusion Affects Gait Variability Ann Arbor, Michigan
NACOB 2008

11. Failure is not an Option, It's Mandatory
Keynote Speaker Danville,
PA
Geisinger Medical Center Research/Quality Symposium, 2011
12. Should I use Ultrasound of Central Venous Access?
Panel and Session Director
6th Annual Academic Surgical Congress
Huntington Beach, CA
February 1-2, 2011

13. Objectifying the Eyeball Test: Use of Geriatric and Frailty Metrics to Assist Surgical Decision Making
2012-Present
 - a. UNMC Surgical Grand Rounds
 - b. UNMC Anesthesia Grand Rounds
 - c. Nebraska Nurse Practitioner Conference
 - d. VISN 6 Face to Face
 - e. VISN 9 Face to Face
 - f. University of Indiana Vascular and Geriatrics Session
 - g. Aurora Healthcare Milwaukee Wisconsin
 - h. University of San Francisco Grand Rounds
 - i. Milwaukee VA Medical Center
 - j. National Surgery Office VA Annual Meeting
 - k. VISN 6 Face to Face

14. What's the Big Deal About Frailty
Panel Organizer and Presenter
2014 Association of VA Surgeons
Yale/ New Haven Connecticut
April 6-9th, 2014

15. Muscular Strength Characteristics at the Ankle Are Altered by Peripheral Artery Disease
Presented at the Midwestern Vascular Society 2016 Annual Meeting.
Columbus, Ohio
September 8-10th, 2016

SCIENTIFIC PAPERS PRESENTED

1. **Johanning JM**, Gruenberg JC: AEIOU: The ABC's of conversion from laparoscopic to open cholecystectomy. Presented at the Society of Laparoendoscopic Surgeons Conference, 1996.
2. **Johanning JM**, Gruenberg JC: The changing face of cholecystectomy. Presented at the Midwest Surgical Society, 1997.
3. **Johanning JM**, Veverka TJ, Bays RA, Tong GK, Schmiege SK: Evaluation of suspected pulmonary embolism utilizing end-tidal CO₂ and D-Dimer. Presented at the Society for Clinical Vascular Surgery, 1999.
4. Longo GM, **Johanning JM**, Murayama K. Laparoscopic Repair of Abdominal Aortic Aneurysms. Nebraska Chapter of the American College of Surgeons, Omaha, Nebraska, May 3, 1999.
5. **Johanning JM**, Franklin DP, Han DC, Carey DJ, Elmore JR: Inhibition of inducible nitric oxide synthase limits nitric oxide production and experimental aneurysm expansion. Presented at the International Society for Cardiovascular Research, Lifeline Research Forum 48th Scientific Meeting, June 2000.
6. **Johanning JM**, Franklin DP, Elmore JR, Han DC: Femoral artery infections associated with percutaneous arterial closure devices. Presented at the Eastern Vascular Surgery Society, May 2001.
7. **Johanning JM**, Armstrong PJ, Franklin DP, Han DC, Carey DJ, Elmore JR: Nitric oxide in experimental aneurysm formation early events and consequences of nitric oxide inhibition. Presented at the Peripheral Vascular Surgery Society, June 2001.
8. **Johanning JM**, Franklin DP, Thomas DD, Elmore JR: D-dimer and Simple clinical predictors in the evaluation of deep venous thrombosis. Presented at the 14th Annual Meeting of the American Venous Forum, February 2002.
9. Cluff P, Vang, P, **Johanning JM**, Brunz J, Swanson SA, Hoppel CL, Katsamouris A, Baxter BT, Lynch TG, Pipinos II: Long term effects of ischemia on mouse gastrocnemius mass and mitochondrial function. Oral presentation at the Midwest student Biomedical Research Forum, Omaha, NE, February, 2003.
10. Brunz J, **Johanning JM**, Vang P, Swanson SA, Lynch TG, Park J, Hoppel CL, Katsamouris A, Baxter BT, Pipinos II: Effect of long term ischemia on mouse gastrocnemius mitochondrial physiology. Oral presentation at the 27th Association of VA Surgeons, Annual Surgical Symposium, Nashville, TN, May 3-5, 2003.

11. **Johanning JM**. Median arcuate ligament release utilizing a combined laparoscopic and endovascular approach. Presented at the First International Endovascular and Laparoscopic Congress, May 2003.
12. Vang P, **Johanning JM**, Bruna JM, Swanson SA, Lynch TG, Park J, Hoppel CL, Katsamouris A, Baxter BT, Pipinos II: Effect of long term ischemia on mouse gastrocnemius mass and mitochondrial function. Poster presentation at the Mitochondria 2003 annual meeting, San Diego, CA, June 11-14, 2003.
13. **Johanning JM**, Brunz J, Pipinos II, Park J, Leone A, Baxter T, Lynch T: Altered nitric oxide metabolites in patients with abdominal aortic aneurysm: potential for screening. Presented at the American College of Surgeons 58th Owen Wangenstein Forum, October 2003.
14. Vang P, Brunz JT, **Johanning JM**, Swanson SA, Zhu Z, Lynch TG, Baxter BT, Pipinos II: Increased muscle mass and mitochondrial content in chronically ischemic skeletal muscle. Oral poster presentation at the 2003 Annual meeting of the Association for Academic Surgery, Sacramento, CA, November 13-15, 2003 (abstract at J Surg Res. 2003 Oct;114(2):299.).
15. Vang P, **Johanning JM**, Brunz JM, Swanson SA, Lynch TG, Baxter BT, Pipinos II: Effect of long term ischemia on mouse gastrocnemius mass and mitochondrial function. Poster presentation at the Society for University Surgeons 65th Annual meeting. St. Louis, Missouri, February 11-14, 2004.
16. Pipinos II, **Johanning JM**, Pham CN, Soundararajan K, Lynch TG: Transcervical approach with protective flow reversal or filter placement for the performance of carotid angioplasty and stenting. Presented at the 28th annual meeting of the Midwestern Vascular Surgical Society, September 9-11, 2004 Omaha, Nebraska.
17. Pipinos II, Zhu Z, **Johanning JM**, Swanson SA, Lynch TG, Baxter BT: Gastrocnemius muscle of patients with peripheral arterial disease has specific mitochondrial electron transport chain defects. Presented at the Society for Vascular Surgery 2005 Research Initiatives in Vascular Disease Conference, April 7-8, 2005 Washington, DC.
18. Robinson L, Scott-Pandorf MM, Stergiou N, **Johanning JM**, Lynch TG, Pipinos II: Claudication produces abnormal and inefficient gait patterns detectable by advanced biomechanical analyses. Oral presentation at the 2005 Annual Meeting of the Nebraska Chapter of the American College of Surgeons, Omaha, NE, September 2005. Winner of the 2005 Award for outstanding research in Surgery Basic Sciences.
19. Robinson L, Scott-Pandorf MM, Stergiou N, **Johanning JM**, Lynch TG, Pipinos II: Claudication produces abnormal and inefficient gait patterns detectable by advanced

biomechanical analyses. Presented at the 29th annual meeting of the Midwestern Vascular Surgical Society, September 15-17, 2005, Chicago, IL.

20. Pipinos II, Burjonrappa S, **Johanning JM**, Longo GM, Lynch TG: Carotid angioplasty with internal carotid artery flow reversal is well tolerated in patients with at least one patent intracranial collateral. Presented at the Society for Clinical Vascular Surgery 34th Annual Symposium on Vascular Surgery, March 8-11, 2006, Las Vegas, Nevada. Winner of the Allastair Karmody Poster Award for the "carotid surgery" category.
21. MacTaggart JN, **Johanning JM**, Xiong W, Knispel RA, Pipinos II, Baxter BT: NADPH Oxidase inhibition suppresses aortic aneurysm formation. Presented at the Society for Vascular Surgery 2006 Research Initiatives Meeting. March 30-31, 2006 Washington, DC.
22. Robinson L, Scott-Pandorf MM, Stergiou N, **Johanning JM**, Lynch TG, Pipinos II: Claudication produces abnormal and inefficient gait patterns detectable by advanced biomechanical analyses. Presented at the 2006 Rochester Vascular Symposium. May 5-7, 2006, Rochester, New York.
23. MacTaggart JN, **Johanning JM**, Xiong W, Knispel RA, Pipinos II, and Baxter BT: NADPH Oxidase inhibition suppresses aortic aneurysm formation. Presented at 2006 Vascular Annual Meeting, June 1-4, 2006 Philadelphia, Pennsylvania.
24. Black C, Ringley CD, McBride CL, Sorensen VJ, Thompson JS, Longo GM, Pipinos II, **Johanning JM**. Inferior vena cava filter placement for pulmonary embolus risk reduction in the super morbidly obese undergoing bariatric surgery. Presented at the American Society of Bariatric Surgery, June 2006.
25. Huisinga JM, Myers SA, **Johanning JM**, Pipinos I, Chen S: The effect of pharmacologic therapy on kinetic gait parameters in patients with peripheral arterial disease. Presented at the 2006 American Society of Biomechanics, September 2006.
26. Myers SA, Huisinga JM, **Johanning JM**, Pipinos I, Chen S: Ground reaction forces in patients with unilateral peripheral arterial disease. Presented at the 2006 American Society of Biomechanics, September 2006.
27. Chen S, Pipinos I, **Johanning JM**, Huisinga J, Myers A. The effect of claudication on joint moments during walking. Presented at the 2006 American Society for Biomechanics, September 2006.
28. Wutzke C, Stergiou N, Pipinos I, **Johanning JM**, Threlkeld A. Gait adaptability in people with unilateral trans-tibial amputations in response to variable walking speed and body weight support. Presented at the 2007 American Society For Biomechanics, 2007.
29. Arya S, Garg N, Longo GM, **Johanning JM**, Lynch GT, Pipinos II. Endovascular treatment of carotid artery stenosis compared with carotid endarterectomy: evidence from current prospective randomized and non-randomized controlled trials. **Winner 1st place award** in

the Residents competition. Rochester Vascular 2007: What's New in Vascular Medicine, Surgery, and Interventional Care, Rochester, New York, May 4-6, 2007.

30. Celis R, Pipinos II, Huisinga J, Longo GM, Lynch T, Stergiou N, **Johanning J**. Gait abnormalities are present prior to the onset of claudication in both young and old claudicants. Presented at the 62nd Annual Sessions of the Forum on Fundamental Surgical Problems, The American College of Surgeons 93rd Annual Clinical Congress, New Orleans, LA October 7-11, 2007. Abstract published in the Journal of the American College of Surgeons Volume 205, Issue 3, Supplement 1, pp. S1-S112 (September 2007).
31. Myers SA, Stergiou N, Pipinos I, **Johanning JM**, Blanke D, Chen SJ: Gait variability is altered in peripheral arterial disease patients prior to the onset of pain. Presented at the 16th Congress of the European Society of Biomechanics Meeting, July 6-9, 2008, Lucerne, Switzerland.
32. Chen S-J; Makris KI; Karagiorgos N; Pipinos II; **Johanning JM**; Radovic M; Huisinga JM; Myers SA; Stergiou N. Bilateral intermittent claudication results in alterations in the gait biomechanics at the hip and ankle joints during gait. 23rd World Congress of the International Union of Angiology; 2008 June 21-25. Athens, Greece
33. **Johanning JM**; Pipinos II; Celis R; Myers SA,; Koutakis P; Stergiou N. Quantification of Reduced Power Output during Ambulation for Affected and Non-affected Limbs in Patients with Unilateral Claudication. 32nd Annual Meeting of the Midwestern Vascular Surgical Society; 2008 Set 11-13. Madison, WI
34. Kamenskiy AV; Dzenis YA; Lynch GT; **Johanning JM**; Longo GM; Pipinos II. In Vivo Mechanical and Flow Properties of the Human Carotid. 33rd Annual Meeting of the Midwestern Vascular Surgical Society; 2009 Sep 10-12. Chicago IL
35. Weiss DJ; Pipinos II; Longo GM; Lynch TG; Rutar F; **Johanning JM**. Direct and indirect measurement of patient radiation exposure during endovascular aneurysm repair. Nebraska Chapter of American College of Surgeons Annual Meeting; 2009 March 7. Omaha, NE
36. Arya S; Pipinos II; Garg N; **Johanning JM**; Lynch TG; Longo GM. Comparison of Carotid Artery Angioplasty and Stenting and Carotid Endarterectomy: A Systemic Review and Meta-Analysis of 30-day and Long-term Outcomes. the 33rd Annual Meeting of the Midwestern Vascular Surgical Society; 2009 Sept 10-12. Chicago, IL
37. 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

38. 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
39. Johanning JM; Myers SA; Pipinos II; Stergiou N. Vascular Occlusion Changes Gait Variability Patterns of Young Individuals. 5th Annual Academic Surgical Congress; 2010 Feb 3-5. San Antonio, TX
40. 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
41. Huben NB; Yentes JM,; Myers SA; Pipinos II; Stergiou N; Johanning JM. Spatial and Temporal Gait Parameters are not improved after Revascularization in Symptomatic Peripheral Arterial Disease Patients. 2010 Scientific Meeting of the Midwestern Vascular Society; 2010 Sept 9-11. Indianapolis, IN
42. Westcott JM; Wurdeman SR; Myers SA; Stergiou N; Pipinos II; Johanning JM. Location of Claudication Pain Does Not Accurately Reflect Gait Impairment in PAD Patients. 2011 Academic Surgical Congress; 2010 Feb 1-3. Huntington Beach, CA
43. Johanning JM. Should I use Ultrasound of Central Venous Access?. 6th Annual Academic Surgical Congress; 2011 February 1-2. Huntington Beach, CA
44. Velandier WH; Calcaterra J; Spretz R; Noriega S; Larsen G; Carlson MA; Pipinos II; Johanning JM. Nanofibrous PLA Mesh is Wound Adherent and Hemostatic in Pig Liver Resection Model. Society for Biomaterials; 2011 April. Orlando, FL
45. Velandier WH; Calcaterra J; Spretz R; Noriega S; Larsen G; Carlson MA; Pipinos II; Johanning JM. Bioengineering hemostasis using human fibrinogen sealants in swine surgical models. Swine in Biomedical Research Conference; 2011 July. Chicago, IL
46. Carlson MA; Calcaterra J; Noriega S; Spretz R; Larsen G; Pipinos II; Johanning JM; Velandier WH. Treatment of Major Hemorrhage with Recombinant Resorbable Fibrin Sealant Bandages. American College of Surgeons Surgical Forum; 2011 October. San Francisco, CA
47. G.P. Casale, D.J. Weiss, A. Nella, S.A. Swanson, Z. Zhu, D. Miseralis, J. Johanning, and I.I. Pipinos. Fiber-type selective oxidative damage and myofiber atrophy in the gastrocnemius of patients with peripheral arterial disease. Experimental Biology, Washington, D.C., April 9-13, 2011
48. Carlson MA, Velandier WH, Larsen G, Calcaterra J, Pipinos II, Johanning JM, Krause CM,

Noriega S, Spretz R, Burgess WH. Development of Novel Hemostatic Devices in Swine Hemorrhage Models [poster], American Association of Laboratory Animal Science, District 6 Omaha, NE. April, 2011.

49. Velander WH, Calcaterra J, Spretz R, Noriega S, Larsen G, Carlson MA, Pipinos II, **Johanning JM**. Nanofibrous PLA Mesh is Wound Adherent and Hemostatic in Pig Liver Resection Model, Society for Biomaterials Orlando, FL. April, 2011
50. Carlson MA, Velander WH, Larsen G, Calcaterra J, Pipinos II, **Johanning JM**, Krause CM, Noriega S, Spretz R, Burgess WH. Development of Novel Hemostatic Devices in Swine Hemorrhage Models" [poster], VA Research Week, Omaha, NE. May, 2011.
51. Velander WH, Calcaterra J, Spretz R, Noriega S, Larsen G, Carlson MA, Pipinos II, **Johanning JM**. Bioengineering hemostasis using human fibrinogen sealants in swine surgical models" [poster] Swine in Biomedical Research Conference Chicago, IL. July, 2011.
52. 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
53. 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
54. Carlson MA, Calcaterra J, Noriega S, Spretz R, Larsen G, Pipinos II, **Johanning JM**, Velander WH. Treatment of Major Hemorrhage with Recombinant Resorbable Fibrin Sealant Bandages" [poster], American College of Surgeons Surgical Forum San Francisco, CA. October, 2011.
55. Wurdeman S, Stergiou N, Pipinos II, **Johanning JM**: External work is deficient in both limbs of patients with unilateral PAD. Presented at the 7th Annual Academic Surgical Congress, Las Vegas, NV. February, 2012.
56. Dwyer, JG, Reynosa JF, SeEVERS GA, Schmid KK, Muralidhar P, Lynch TG, **Johanning JM**: Employing Validated Geriatric Mortality Calculators to Predict Post-Operative Mortality. Presented at the 2012 AVAS Annual Meeting, Miami, FL. April, 2012
57. **Johanning, JM**: In- Hospital and Post-Discharge Venous thromboembolism after vascular surgery. Presented at the 2012 SVS Vascular Annual Meeting, National Harbor, MD. June, 2012,

58. **Johanning, JM**: Prosthetic graft vs. Vein as conduit for extra-anatomic bypass: Short term outcomes from a national database. Presented at the 2012 SVS Vascular Annual Meeting, National Harbor, MD. June, 2012
59. Thompson, JR; Swanson, SA; Haynatzki, G; Casale, GP; **Johanning, JM**; Papoutsis, E; Koutakis, P; Miserlis, D; Zhu, Z; Pipinos, II. Protein and Mitochondrial Content in the Gastrocnemius Predicts Mortality Rates in Patients with Peripheral Arterial Disease. Presented at: 36th Annual Midwestern Vascular Surgical Society Meeting, Milwaukee, WI, September, 2012.
60. Sundaram A, Gupta P, Ramanan B, MacTaggart JN, Longo M, **Johanning JM**, Forse A, Balters M, Lynch TG, Pipinos II. Impact of renal function on outcomes after Elective Endovascular abdominal aortic aneurysm repair. Oral presentation, Surgical Forum. 2012 Annual Clinical Congress of the American College of Surgeons, Chicago, Illinois. September 30-October 4, 2012,
61. Gupta P, Ramanan B, Sundaram A, MacTaggart JN, Fang X, Balters M, Longo M, Lynch TG, **Johanning JM**, MacTaggart JN, Pipinos II. Risk index for predicting perioperative stroke or death risk in asymptomatic patients undergoing carotid endarterectomy. Oral presentation. Scientific papers sessions. 2012 Annual Clinical Congress of the American College of Surgeons, Chicago, Illinois. September 30-October 4, 2012.
62. Thompson JR, Swanson SA, Haynatzki G, Casale GP, **Johanning JM**, Papoutsis E, Koutakis P, Miserlis D, Zhu Z, Pipinos II. Protein and Mitochondrial Content in the Gastrocnemius Predicts Mortality Rates in Patients with Peripheral Arterial Disease, Presented at: Vascular Surgery II Forum, The American College of Surgeons, Chicago, IL, October, 2012
63. Thompson JR, Swanson SA, Haynatzki G, Casale GP, **Johanning JM**, Papoutsis E, Koutakis P, Miserlis D, Zhu Z, Pipinos II. Mortality Rates of Patients with Peripheral Arterial Disease Are Predicted by the Respiratory Activities of Gastrocnemius Mitochondrial Complexes I and IV. Oral presentation, The Surgical Forum, Clinical Congress 2013 of the American College of Surgeons, October 6-10, 2013, Washington, DC
64. Koutakis P, Pipinos II, Cluff K, Thompson JR, Ha DM, Papoutsis E, Swanson SA, Zhu Z, Kim KS, Myers S, Wurdeman S, Stergiou N, **Johanning JM**, McComb RD, Casale GP. Abnormal Morphology of Skeletal Muscle Myofibers Is Associated With Limb Dysfunction in Peripheral Arterial Disease Patients. Oral Presentation, American Heart Association, Scientific Sessions 2013, November 16-20, Dallas, TX
65. Thompson JR, Swanson SA, Haynatzki G, Casale GP, **Johanning JM**, Papoutsis E, Koutakis P, Miserlis D, Zhu Z, Pipinos II. Mortality Rates of Patients with Peripheral Arterial Disease Are Predicted by the Respiratory Activities of Gastrocnemius Mitochondrial Complexes I and IV. Oral presentation, Vascular Research Initiatives Conference, April 30, 2014, Toronto, Ontario.

66. Yanala UR, **Johanning JM**, Pipinos II, Velandar WH, Carlson MA. Development of a Porcine Model of Severe Non-compressible Truncal Hemorrhage. Presented at: 2014 Academic Surgical Congress, San Diego, CA, February, 2014.
67. Thompson JR, Swanson SA, Haynatzki G, Casale GP, **Johanning JM**, Papoutsi E, Koutakis P, Miserlis D, Zhu Z, Pipinos II. Mortality Rates of Patients with Peripheral Arterial Disease Are Predicted by the Respiratory Activities of Gastrocnemius Mitochondrial Complexes I and IV. Oral presentation, Vascular Research Initiatives Conference, Toronto, Ontario, April 30, 2014.
68. Carlson MA, Yanala UR, **Johanning JM**, Pipinos II, Velandar WH. Development of a Porcine Model of Severe Non-compressible Truncal Hemorrhage” [poster]l. Presented at: 2014 Swine in Biomedical Research Conference,Raleigh, NC, July, 2014.
69. Carpenter LA, Thompson, JR, Ha DM, Swanson SA, **Johanning JM**, Papoutsi E, Koutakis P, Miserlis DA, Pipinos II, Casale GP. Cytokine Gene Expression in the Gastrocnemius of Patients with Peripheral Arterial Disease, Academic Surgical Congress, Las Vegas, NV, February. 2015.
70. Carlson MA, **Johanning JM**, Pipinos II. Effect of Crystalloid Infusion Rate in a Noncompressible of Crystalloid Hemorrhage Model, 2015 meeting of the Central Surgical Association, Chicago, IL, March, 2015.
71. Krishnamurty, DM, Torgersen Z, Langenfeld SJ, Kallam A, **Johanning JM**, Forse, RA. Frailty Predicts Death, Disability and Institutionalization in Patients Undergoing Elective Colectomy. Abstract Presentation at the American Society of Colon and Rectal Surgeons (ASCRS) meeting, Boston MA, June, 2015.
72. Carlson MA, **Johanning JM**, Pipinos II. Effect of Crystalloid Infusion Rate in a Porcine model of Uncontrolled Noncompressible Intraabdominal Hemorrhage [poster], Military Health Systems Research Symposium, Ft. Lauderdale, FL, August, 2015.
73. Yefimova, M., Aslakson, R.A., Yang, L., Garcia, A., Boothroyd, D., Gale, R.C., Giannitrapani, K., Morris, A., **Johanning, J.M.** Shreve, S., Wachterman, M., Lorenz, K.A. Palliative Care and End of Life Outcomes Following High Risk Surgery. *Association of VA Surgeons Meeting*, April 29, 2019. Seattle, WA. Podium Presentation.
74. Yefimova, M., Aslakson, R.A., Yang, L., Garcia, A., Boothroyd, D., Gale, R.C., Giannitrapani, K., Morris, A., **Johanning, J.M.** Shreve, S., Wachterman, M., Lorenz, K.A. Palliative Care and End of Life Outcomes Following High Risk Surgery. *VAHS&RD Annual Research Conference*, October 29, 2019. Washington DC. Poster Presentation.
75. Yefimova, M., Aslakson, R.A., Yang, L., Garcia, A., Boothroyd, D., Gale, R.C., Giannitrapani, K., Morris, A., **Johanning, J.M.** Shreve, S., Wachterman, M., Lorenz, K.A. Palliative Care and End of Life Outcomes Following High Risk Surgery. *Annual Assembly, presented by the*

American Academy of Hospice and Palliative Medicine. March 18-20, 2020. San Diego, CA.
Poster Presentation.

INVITED DISCUSSANT

American College of Surgeons Surgical Forum-Geriatric Surgery Section	2011
American College of Surgeons Annual Meeting: Geriatrics and Vascular	2013
Association of VA Surgeons	2014-2017

PUBLISHED PEER REVIEWED AUDIOVISUAL MATERIALS

Geriatric Surgery Modules for Perioperative Evaluation and Management: Pain and Delirium
Web-based general surgery modules.
http://www.pogoe.org/px/index.cfm?pgContent=item&product_id=18774.

AUDIO VISUAL PROGRAMS

The Treatment of Varicose Veins Through Laser Surgery [Internet]
The Nebraska Medical Center September 15, 2005. On-line
surgery available from:
<http://www.or-live.com/nebraskamedical/1423/> System
Requirements: Real One Player

TEACHING ACTIVITIES

COURSES TAUGHT

Professionalism in Surgery
Lectures for third year medical students approximately six times per year 2001 to 2003

COURSES SUPERVISED

Leadership Acceleration: NWI VA

Rural Surgery Experience in conjunction with rural primary care experience.

Assistant Medical Student Clerkship Director of General Surgery Rotation

RESIDENT TEACHING

Teaching operative procedures at The Nebraska Medical Center, the VA Medical Center and Creighton University Medical Center (Approximately 5 cases per week).

Moderator, Vascular Case Conference at Creighton University	2005 – Present
Moderator, General Surgery Resident Seminar	2002 – 2005
Case Conference Attending	2007 – Present

COMMUNITY EDUCATION

Vascular Surgery: Inside Out or Outside In?

UNMC's Health and Technology Day at the Strategic Air and Space Museum February 2002.

Minimally Invasive Surgery

KIOS Public Radio February 2002

MENTEES

Dimitrios Miserlis

University of Nebraska Medical Center General Surgery Resident
University of Nebraska Medical Center Vascular Fellow

Steven Serio

Creighton University General Surgery Resident
University of Nebraska Medical Center Vascular Fellow

Shipra Arya

Creighton University General Surgery Resident
Vascular Fellow: University of Michigan

Bala Natarajan

Creighton University General Surgery Resident
Vascular Fellow: University of San Francisco

Anjin Talukdar

Creighton University General Surgery Resident
Vascular Fellow: University of Indiana

Dustin Weiss

University of Nebraska General Surgery Resident
Vascular Fellow: Yale University

Prateek Gupta

Creighton University
Vascular Fellow: University of Wisconsin

Rolando Celis
University of Nebraska General Surgery Resident
PAD Gait Resident 2007-2008
Vascular Fellow: University of Pittsburgh

Sara Myers
University of Nebraska Omaha Graduate Student 2006-2007
University of Nebraska Surgery PhD Student 2007-Present
PAD Gait Researcher: Masters and PhD Student
Assistant Professor of Biomechanics at UNA 2011-Present

Shane Wurdeman
University of Nebraska Omaha graduate student 2010-Present
PAD Gait Researcher: Masters and PhD Student

Jessie Huisingia
University of Nebraska Omaha graduate student 2005-2006
PAD Gait Researcher: Masters Student

George Pisimisis
University of Nebraska General Surgery Resident
Vascular Fellow: Mayo Clinic

Nitin Garg
Creighton University General Surgery Resident
Vascular Fellow: Mayo Clinic

Matthew Goetsch,
Creighton University General Surgery Resident
Vascular Fellow: Georgetown University

Harinder Singh
Creighton University General Surgery Resident
Vascular Fellow: Duke University

Jason MacTaggart
University of Nebraska General Surgery Resident
Basic Science AAA Research Resident
Vascular Fellow: University of California, San Francisco

Rao Gutta
University of Nebraska General Surgery Resident
Vascular Fellow: University of Maryland

Patrick Kelly
Creighton University General Surgery Resident
Vascular Fellow: St. Louis University

Richard Lee
Creighton University General Surgery Resident
Vascular Fellow: University of Rochester

G. Matthew Longo
University of Nebraska General Surgery Resident
Vascular Fellow: Northwestern University

Raj Sandhu
University of Nebraska General Surgery Resident
Vascular Fellow: Case Western Reserve University

Panos Koutakis
University of Nebraska Graduate Student
2007 to Present
Onasis Scholarship Awardee

John Park
University of Nebraska Medical Student
Summer 2001
Project: Nitric oxide in aortic aneurysm pathogenesis.

Nicole Grossenberg
University of Nebraska Medical Student
Summer 2002
Project: Nitric oxide in aortic aneurysm pathogenesis.

Mark Eichler. Surgery Interest Group President
Surgery Resident, University of Nebraska Medical Center

Andrew Livingston
University of Nebraska Medical Student
Surgery Interest Group President

Megan Straight
University of Nebraska Medical Student
Surgery Interest Group President

Alex Raines
University of Nebraska Medical Student

Surgery Interest Group President

Jill Westcott

University of Nebraska Medical Student

Surgery Interest Group President

Summer Research Student

Jennifer Dwyer

University of Nebraska Medical Student

Surgery Interest Group Officer

Summer Research Student