

Vascular Quality Initiative®

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National and Regional Approved Projects List (as of September 2015)

National			
Primary Investigator	Center	Title	Date
Randal DeMartino, MD	DHMC	Variation and intensity of medical therapy in patients undergoing vascular surgery	Feb - 13
Mohammad Eslami, MD	BMC	Comparison of LEB and PVI repair of asymptomatic popliteal aneurysms	Feb - 13
Mohammad Eslami, MD	BMC	Derivation of risk factor model predicting adverse outcomes after Carotid Endarterectomy (CEA) using Vascular Study Group of New England (VSGNE) carotid dataset and external validation using the remainder of SVS-PSO dataset	Feb - 13
Grace Wang, MD	UPenn	Identifying risk factors for Cerebral reperfusion syndrome will permit patients to be better managed and reduce morbidity.	Feb - 13
Thomas Curran, MD	BIDMC	Regional Differences in Contemporary Abdominal Aortic Aneurysm, Carotid Disease, and Lower Extremity Peripheral Arterial Disease Management	April - 13
Mark Mewissen, MD	Aurora	Bleeding in patients undergoing percutaneous peripheral vascular intervention	June - 13
Joseph Schneider, MD	Cadence Health	A comparison of Results with Eversion vs. Conventional Carotid Endarterectomy from the Society for Vascular Surgery Vascular Quality Improvement Project	June - 13
Vincent Rowe, MD	USC	Completion Imaging During Infra-inguinal Bypass	Aug - 13
Vincent Rowe, MD	USC	The Impact of Vein Harvesting Technique on Wound Complications and Graft Patency after Infra-Inguinal Arterial Bypass	Nov - 13
Jessica Simons, MD	UMASS	Relative Performance of Prediction Models for Amputation Free Survival in Patients Undergoing Lower Extremity Bypass in the United States	Nov - 13
Benjamin Brooke, MD	University of Utah	Variation in the Utilization of Preoperative Cardiac Stress Testing in Vascular Surgery	Dec - 13
William Robinson, MD	UMASS	Comparison of Risk-adjusted Outcomes of Endovascular and Open Repair of Ruptured AAA in the Vascular Quality Initiative	Dec - 13
Mar Schermerhorn, MD	BIDMC	Regional Differences in Contemporary Lower Extremity Peripheral Arterial Disease Management	Dec - 13
Alik Farber, MD	Boston University	Comparison of Outcomes between Infrainguinal Bypass and Infrainguinal PVI in patients with Critical Limb Ischemia	Feb - 13
Karen Ho, MD	Northwestern	Comparison of aorto-bifemoral bypass, cross-femoral bypass, and combined common femoral endarterectomy with iliac stenting for aorto-iliac occlusive disease using the SVS VQI Registry	Feb - 13
Albeir Mousa, MD	CAMC	Short-term outcomes for Thoracic endovascular aortic repair after blunt traumatic aortic injury	April - 14
Karen Woo, MD	USC	The Association of Left Subclavian Artery Coverage without Revascularization and Spinal Cord Ischemia in Patients Undergoing TEVAR	April - 14
Adam Beck, MD and Sal Scali, MD	U of F	Has EVAR explant become increasingly common over time in the VQI, and how do operative outcomes compare to native AAA repair	July - 14
Fred Weaver, MD	USC	The Impact of Abdominal Aorta Exposure Technique on Pulmonary Complications in Patients Undergoing Open Aortic Surgery	July - 14
Thomas Brothers, MD	MUSC	Predicting the Best Therapy for Peripheral Arterial Disease Using the Vascular Quality Initiative	Aug - 14
Robert Steppacher, MD	University of Chicago	The Effect Anti-Platelets and Statins on Peri-Operative and Long Term Outcomes in Dialysis Patients Undergoing Arterial Surgery	Aug - 14
Andrew Hoel, MD	Northwestern	Understanding Readmissions after Infrarenal Aortic Aneurysm Repair and the Impact on Mortality using the Society for Vascular Surgery Quality Initiative	Oct - 14
Mahmoud Malas, MD	John Hopkins	The Effect of Age on Mortality after Open versus Endovascular Repair of Intact Abdominal Aortic Aneurysms	Oct - 14

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Salvatore Scali, MD	U of F	Which Factors are Most Important for Determining Adverse Neurologic Outcomes and/or Mortality after Thoracic Endovascular Aortic Repair in the VQI	Oct - 14
Marc Schermerhorn, MD and Sara Zettervall, MD	BIDMC	Anterior vs. Retroperitoneal Approach for AAA using Matched VQI and Medicare Database	Oct -14
David Stone, MD	DHMC	Association of Clopidogrel and Antiplatelet Therapy with Major Bleeding Complications during Peripheral Arterial Surgery in a National Database	Oct - 14
Fred Weaver, MD	USC	Complications Associated with the use of Parallel Endografts for the Treatment of Paravisceral Aortic Aneurysms	Oct - 14
Karen Woo, MD	USC	Practice Patterns in Hemodialysis Access and Effect on Maturation	Oct - 14
Adam Beck, MD	U of F	The Physician Quality Reporting System and the Vascular Quality Initiative; How Often do Vascular Surgery Patients Meet the Quality Measures Outlined by the Centers for Medicare and Medicaid Services and are these Reasonable Measures to Follow	Oct - 14
Marc Schermerhorn, MD	BIDMC	Regional Differences in Contemporary Carotid Disease Management	Dec -14
Marc Schermerhorn, MD	BIDMC	Regional Differences in Abdominal Aortic Aneurysm Repair	Dec - 14
Marvin Atkins, MD	Baylor Scott	Comparison of Outcomes of Alternative Conduits for Infringuinal Lower Extremity Bypass in Critical Limb Ischemia	Dec - 14
Donald Baril, MD	UMPC	The Risk Stratification and Impact of Respiratory Adverse Events after Major Vascular Surgery on Short-Term and Long-Term Patient Outcomes	Dec - 14
Jeffery Kalish, MD	BMC	Groin Hematoma rates following Routine versus Selective Ultrasound Guidance in Femoral Arterial Access for Peripheral Vascular Intervention	Dec - 14
Matthew Mell, MD	Stanford	Variation in Access Site Approaches and Access Site Complications for Peripheral Vascular Interventions	Dec - 14
Alik Farber, MD	BMC	Comparison of Outcomes between Infringuinal Bypass and Infringuinal PVI in patients with Critical Limb Ischemia	Dec - 14
Javairiah Fatima, MD	UFL	Amputations and other major adverse lower extremity events after bypass and lower extremity intervention for claudication	Feb - 15
Karen woo, MD	USC	Tibial Endovascular Interventions in the Vascular Quality Initiative	Feb - 15
Mohmoud Malas, MD	John-Hopkins	Pre- and Post- Stent Angioplasty during Carotid Artery Stenting and its Effect on Stroke and Restenosis	April -15
Ramoncito David, MD	Mayo	Implications of early extubation after elective open open abdominal aortic vascular surgery	April - 15
Marc Schermerhorn, MD	BIDMC	Racial differences within regions across the VQI, in patient selection/presentation, treatment, and outcomes for carotid, abdominal aortic, and lower extremity vascular disease	April - 15
Karen Woo, MD	USC	Acute Kidney Injury in Lower Extremity Bypass	April - 15
Andrea Steely, MD	UVMMC	Variation in Optimal medication therapy use after postoperative myocardial infarction following vascular surgery	April - 15
Mohmoud Malas, MD	John - Hopkins	Outcomes Following Carotid Endarterectomy and Carotid Artery Stenting in Patients with Prior Carotid Revascularization	April -15
Edward Arous, MD	UMASS	National Carotid Stenosis Variation	April -15
Daniel J. Bertges, MD	UVM	Variation in Antiplatelet and Statin Therapy after Postoperative Myocardial Infarction following Vascular Surgery	June - 15
Rebecca Kelso, Md	CCF	Analysis and comparison of carotid endarterectomy patch materials and incidence of restenosis	June - 15
Nathan Liang, MD	UMPC	Effects of Postoperative Anticoagulation on Infringuinal Bypass Patency	June - 15
Marc Schermerhorn, MD and Sara Zettervall, MD	BIDMC	Long Term Outcomes and Trends in Re-intervention among Patients with Type 2 Endoleaks	June - 15
Joseph Schneider, MD	Cadence Health	A comparison of Results of Carotid Endarterectomy in Octo- and Nonagenarians to Younger Patients from the Society for Vascular Surgery Vascular Quality Initiative	June -15
Jesus Ulloa, MD	UCLA	The association between payer status and in-hospital mortality and use of post-acute care facilities after aortic aneurysm repair, supra-inguinal bypass, infra-inguinal bypass and peripheral vascular intervention, outcomes from the VQI	June - 15

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Christopher Abularrage, MD	John Hopkins	Comparison of Outcomes After Bypass versus Peripheral Vascular Intervention At and Below the Knee for Critical Limb Ischemia	??
Marc Schermerhorn, MD and Peter Soden, MD	BIDMC	Long-Term Comparison of Endovascular versus Open AAA Repair using Matched VQI-Medicare Database	??
Ahmed Abou-Zamzam, MD	Loma Linda University MC	Variations in smoking habits in patients undergoing treatment for intermittent claudications	??
Mohmoud Malas, MD	John – Hopkins	Patterns of Presentation and Outcomes of Dialysis Patients Treated for Peripheral Arterial Disease in the VQI	Aug - 15
Jeffery Siracuse, MD and Alik Farber, MD	BMC	Comparison of Open and Endovascular Treatment of Patients with Critical Limb Ischemia with tissue loss and impaired functional status (addendum)	Aug - 15
Mohammad H. Eslami, MD	BMC	External validation of the VSGNE risk predictive model of mortality after elective AAA repair on the VQI-VSGNE patients and comparison against established models.	Aug - 15
Mohammad H. Eslami, MD	BMC	External validation of VSGNE risk predictive model of early failure among the patients with the first time AV fistula	Aug - 15
Dejah Judelson, MD	UMASS	Predictors of Loss to Follow Up in the Vascular Quality Initiative	Aug - 15
Elizabeth Genovese, MD	UPMC	Outcomes of Stent Grafts compared to Bare Metal Stents for the Treatment of Aortoiliac Occlusive Disease; Factors Influencing Patency of Common Iliac Artery Stents including Medical Management	Aug - 15
Raghuveer Vallabhaneni, MD	UNC	Active Smoking and Its Impact on Lower Extremity Revascularization	Aug - 15
Daniel Clair, MD	Cleveland Clinic	Association between antiplatelet therapy and bleeding complications in open aortic aneurysm repair	Aug - 15

VSGNE			
Primary Investigator	Center	Title	Date
William Robinson, MD	UMass	Predictors of Mortality after Repair of Ruptured Abdominal Aortic	Nov - 09
Jeff Kalish	BMC	The Significance of Intra-Operative Completion Studies following LEB	Dec - 09
Brian Nolan	DHMC	Carotid Endarterectomy Pre-operative MRA	May -10
David Stone	DHMC	Clopidogrel is Not Associated with Major Bleeding Complications During Peripheral Arterial Surgery	May -10
Jessica Wallaert	DHMC	Impact of Completion Imaging in CEA	May -10
Phil Goodney	DHMC	Functional Outcomes of Amputation following LEB	May -10
Phil Goodney	DHMC	Shunt Use in CEA	May -10
Phil Goodney	DHMC	ICA Re-exploration during CEA	May - 10
Phil Goodney	DHMC	Changes in Patient Selection in LEB in New England	May - 10
Chris Healey	MMC	The Effect of Coumadin on Endoleak Development after EVAR	Jan - 11
Dave Kuwayama	DHMC	Length of Stay in the VSGNE Cohort	Feb - 11
Julie Adams	FAHC	Gender Differences in LEB	Feb -11
Jessica Simons	UMASS	Major Adverse Limb Events Associated with LEB for Claudication	Feb -11
Jeff Kalish	BMC	Outcomes Related to Blood Transfusion After LEB	April - 11
Brian Nolan	DHMC	Risk Adjusted Outcomes of Carotid Stenting	April - 11
David Stone	DHMC	Impact of COPD on Open AAA Repair	April - 11
Randy De Martino	DHMC	Outcomes of Ruptured AAA Repair in the VSGNE	April - 11
Danny Bertges	FAHC	Results of Coronary Revascularization for Post-op MI after Vascular Surgery	April - 11
Scott Fecteau	St. Francis	Conduit Limited Patients with CLI	April - 11
Donald Baril	UMASS	Contralateral Amputation as a Predictor of Outcome after LEB	April - 11
Alik Farber	BMC	Dextran Infusion during CEA with peri-op Outcome	June - 11

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Danny Bertges	FAHC	PVI for Critical Limb Ischemia within the VSGNE	June - 11
James McPhee	Brigham	Vein cuff in below knee prosthetic grafts	July - 11
Marc Schermerhorn	BIDEAC	Gender Differences in AAA	Oct - 11
Marc Schermerhorn	BIDEAC	Gender Differences in Carotid Interventions	Oct - 11

Ben Brooke	DHMC	Analysis of Variation in Use of Renal Protection in PVI	Oct - 11
Jessica Wallaert	DHMC	Predicting long-term mortality in patients undergoing asymptomatic carotid endarterectomy	Oct - 11
Randy De Martino	DHMC	Long Term Survival Following AAA	Oct - 11
Reshma Patel	FAHC	Validation of VSGNE CRI 2008 - 2010	Oct - 11
Chris Kwolek	MGH	Embolic protection versus flow reversal for Carotid Angioplasty and Stenting.	Oct - 11
V. Patel	MGH	Evolution of Technique and Outcomes for Juxtarenal/Complex AAA	Oct - 11
Phil Goodney	DHMC	Trends in re-intervention before index bypass	Nov - 11
Jessica Simons	UMASS	Myocardial Infarction as a Predictor of Long-Term Mortality	Nov - 11
Phil Goodney	DHMC	Perioperative Statin Use in Patients Undergoing LEB or PVI	Dec - 11
Daniel Bertges	Fletcher Allen	Observed vs. Expected rates for Post-Op MI	Dec - 11
Marc Schermerhorn	BIDEAC	Graft durability and reinterventions with open AAA repair vs. EVAR	Dec -11
Daniel Bertges	FAHC	Impact of VSGNE research on contemporary practice	Feb -12
Marc Schermerhorn	BIDEAC	Aortic size index and gender differences in management and outcomes of AAA repair	Feb -12
Brian Nolan	DHMC	Outcomes of CEA within one month if ipsilateral of CVA	Feb -12
Jeffrey Kalish	BMC	Femoral Access and Bleeding Complications during Peripheral Vascular Interventions	April - 12
Alik Farber	BMC	The Effect of IV Hypo/Hypertensive Meds after Carotid Intervention	April - 12
Donald Baril	UMASS	Outcomes of lower extremity bypass performed for acute limb ischemia	April - 12
Marc Schermerhorn	BIDMC	Treatment of patients with restenosis after CEA: Redo-CEA vs. CAS	May -12
Marc Schermerhorn	BIDMC	Predictors of Type II Endoleak and their Association with Adverse Outcomes	May -12
Daniel Bertges	FAHC	Development and validation of the Vascular Quality Initiative Cardiac Risk Calculator	May -12
V. Patel, MD	MGH	Predictors of postoperative renal dysfunction and its impact on peri-operative and late survival	May -12
Daniel Bertges	FAHC	Impact of Gender on Outcomes of Peripheral Vascular Interventions	June -12
Daniel Bertges	FAHC	Impact of Cardiac Dysrhythmias and Congestive Heart Failure on Mortality after Vascular	June -12
Andrew Stanley	FAHC	Creating a bedside tool integrating hospital cost in clinical decision analysis.	July -12
Mohammad H. Eslami	BMC	Comparison of outcomes after popliteal artery repair: comparison of open vs. endovascular repair.	July -12
V. Patel, MD	MGH	Predictors of postoperative renal dysfunction and its impact on peri-operative and late survival	Aug - 12
V. Patel, MD	MGH	Predictors and impact of aneurysm sac behavior following EVAR for AAA	Aug - 12
Marc Schermerhorn	BIDMC	Carotid revascularization and impact of degree of the contralateral artery	Sep -12

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VSGNE			
Primary Investigator	Center	Title	Date
Marc Schermerhorn, MD	BIDMC	Gender-based post-operative anesthesia management and outcomes in AAA patients	Sep -12
Randall DeMartino	DHMC	Variation and intensity of medical therapy in in patients undergoing vascular surgery procedures	Oct - 12
Marc Schermerhorn	BIDMC	Regional differences in carotid artery disease treatment and outcome	Dec - 12
Marc Schermerhorn	BIDMC	Regional Differences in Lower Extremity Peripheral Arterial Disease Management	Dec - 12
Marc Schermerhorn	BIDMC	Regional Differences in AAA Management	Dec - 12
Phil Goodney	DHMC	Comparison of effect of symptom status on perioperative stroke following carotid revascularization between the SVS Vascular Registry and the VSGNE	Dec - 12
Virendra Patel	MGH	Impact of race and socioeconomic status on outcomes following treatment for peripheral vascular disease	Feb - 13
Mohammed Eslami	BMC	Evaluation of risk prediction models for elective abdominal aorta aneurysm repair on the VSGNE patients	Feb - 13
Alik Farber	BMC	Comparison of Outcomes between Infrainguinal Bypass and Infrainguinal PVI in patients with Critical Limb Ischemia	April - 13
Meghan Dermody, MD	Tufts	Incidence, complications, and outcomes of patients less than 50 years old undergoing open vascular surgery for atherosclerotic occlusive disease	April - 13
Donald Baril	UMASS	Trends in preoperative imaging for lower extremity bypass and the impact on clinical outcomes	June - 13
Jeffrey Indes, MD	Yale	Outcomes of Carotid Endarterectomy based on anesthesia type	June - 13
Jeffrey Indes, MD	Yale	Is "Unfit for Open Repair" true? A validation in open surgical patients.	June - 13
Alik Farber, MD	BMC	Type I and III Endoleak after endovascular aneurysm repair	July - 13
Jessica Simons	UMASS	Relative Performance of Prediction Models for Amputation Free Survival Using National Data	Aug - 13
Mohammed Eslami	BMC	Tapered vs Straight AVG	Sep - 13
Virendra Patel	MGH	Impact of CKD on early and late outcomes following EVAR and open AAA repair	Oct - 13
V. Patel	MGH	The Impact of Hemodynamic Changes following PVI and LEB	Jan - 14
Edward Arous	UMASS	National Carotid Stenosis Variation	Jan - 14
Andrea Steely	FAHC	ACE inhibitors/ARBs and lower extremity peripheral vascular disease	April - 14
Dejah R. Judelson, MD	UMASS	Determinants of follow-up failure in patients enrolled in the VSGNE	Aug - 14
Cassius Iyad, Ochoa Char, MD	YALE	Distal embolization during peripheral vascular intervention	Aug - 14
Marc Schermerhorn MD & Sara Zettervall MD	BIDMC	EVAR outcomes categorized by aortic endograft brand	Aug - 14
Marc L. Schermerhorn, MD & Dominique Buck, MD	BIDMC	Outcomes of complex AAA repair with Chimney edografts	Aug - 14
Marc L. Schermerhorn, MD & Dominique Buck, MD	BIDMC	Outcomes for Complex AAA repair with fenestrated graft	Aug - 14
Jeffery Siracuse	BMC	Comparative effectiveness of endovascular versus open repair of abdominal aortic aneurysms in low risk patients.	Sep - 14

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Devin S. Zarkowsky	DHMC	Outcomes and Factors Associated with Patients Requiring Dialysis After EVAR	Sep - 14
Karina Newhall	DHMC	Completion Imaging and reoperation for bleeding over time among patients undergoing Carotid Endarterectomy	Oct - 14
Marc Schermerhorn MD & Peter Soden MD	BIDMC	Long-term comparison of Endovascular versus open AAA repair using matched VQI-Medicare database	Oct -14
Andrea Steely	VTMEDNET	A quality initiative to improve glycemic control in diabetic and non-diabetic patients after vascular surgery	Nov - 14
Mohammad H. Eslami, MD	BMC	Effects of time to surgery among patients with symptomatic carotid artery stenosis.	Dec - 14
Marc Schermerhorn MD	BIDMC	Concomitant procedures during open and endovascular abdominal aortic aneurysm repair	Dec - 14
Robert Patterson, MD	Brown	Efficacy of cerebral monitoring techniques during CEA	Mar - 15
Robert Patterson, MD	Brown	Drain placement following CEA	Mar - 15
Marc Schermerhorn MD & Sara Zettervall MD	BIDMC	Long Term Outcomes and Trends in Re-intervention among Patients with Type 2 Endoleaks	Mar - 15
Andrea Steely, MD	VTMEDNET	Variation in Optimal medication therapy use after postoperative myocardial infarction following vascular surgery	April - 15
WD Clouse	Partners	The Impact of Adding Ipsilateral Proximal Endovascular Intervention to CEA	May - 15
William Mackey	Tufts	Changing Characteristics of EVAR candidates	May -15
Christopher Healey, MD	MMC	Validation of University of Washington Preoperative Risk Score for the Prediction of Mortality following Repair of Ruptured Abdominal Aortic Aneurysms	July - 15
Sarah E. Deery MD & Marc Schermerhorn MD	BIDMC	Gender Differences in TEVAR	Aug-15
Marc Schermerhorn MD & Sara Zettervall MD	BIDMC	Predictors of Respiratory Complications following AAA repair	Aug- 15
Marc Schermerhorn MD & Peter Soden MD	BIDMC	What is the added morbidity and mortality of a concomitant endarterectomy in lower extremity revascularization	Aug- 15
Jeffrey Siracuse, Alik Farber	BMC	Endovascular treatment of common and deep femoral artery disease	Aug -15
Marc Schermerhorn MD & Robina Matyal MD	BIDMC	Predictors of Intraoperative transfusion during Endovascular abdominal Aortic Repair (EVAR)	Aug- 15
Carolina's			
Thomas Brothers, MD	MUSC	Predicting the Best Therapy for Peripheral Arterial Disease Using the Vascular Quality Initiative	???
Raghuveer Vallabhaneni, MD	UNC	Evaluation of the impact of smoking on lower extremity revascularization for claudicants	???
Mid-Atlantic			
Ralph P. Ierardi MD	Christiana Care	Variables associated with shortened length of stay following elective carotid endarterectomy	???
Virginia's			
Lily E. Johnston, MD	UVA	Use of Antiplatelet Agents in Patients Receiving Lower Extremity Endovascular Interventions	Jan - 13

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Albeir Mousa, MD	CAMC	Perioperative outcomes after CEA for asymptomatic patients in chronic renal insufficiency	April - 14
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