

Christopher Gadsden Carsten, III, M.D., F.A.C.S.  
Program Director, Vascular Surgery Fellowship  
Greenville Health System

October 2015

OFFICE ADDRESS: Greenville Hospital System  
Department of Surgery  
3<sup>rd</sup> Floor Support Tower  
701 Grove Road  
Greenville, SC 29605  
(864) 455-6363  
(864) 455-1320 – fax  
Ccarsten@ghs.org

EDUCATION: Clemson University 1984 - 1988  
Clemson, SC  
Bachelor of Science, Microbiology  
Magna Cum Laude

Medical University of South Carolina 1988 – 1992  
Charleston, SC  
Doctor of Medicine

PROFESSIONAL TRAINING: General Surgery Residency 1992 - 1997  
Greenville Hospital System  
701 Grove Road  
Greenville, SC 29605

Peripheral Vascular Surgery Residency 1997 - 1999  
Geisinger Medical Center  
100 North Academy Drive  
Danville, PA 17821

CERTIFICATION: Diplomat National Board of Medical Examiners # 414153  
Diplomat American Board of Surgery # 43493 Sept. 1998  
Recertified Dec 2007  
Certificate of Added Qualifications in Vascular Surgery  
# 101010 May 2000 Recertified Sept 2008  
Advanced Cardiac Life Support – 1992, 1997, 2001  
Advanced Trauma Life Support – 1992, 1996, 2001, 2003, 2008  
ATLS Instructor #130028 - 2012 – Present  
ASSET Instructor – Present  
21<sup>st</sup> Annual Surgeons as Educators Course – Sept 13 -19, 2014

AWARDS: Resident of the Year Award - Presented by University of S.C.  
Medical Students – 1994

Clinical Research Award by S.C. Chapter American College of Surgeons - February 1995

The Spence Taylor Outstanding Surgical Educator Award  
Greenville Health System-2014

LICENSURE: South Carolina - Active  
Pennsylvania - Inactive

HOSPITAL  
APPOINTMENTS: Staff Surgeon  
Tuomey Regional Medical Center  
Sumter, S.C.  
July 1999 - February 2001

Assistant Director of Surgical Education  
General Surgery & Vascular Surgery  
Greenville Memorial Hospital  
Greenville, S.C.  
March 2001- present

Medical Director  
Vascular Lab  
Greenville Memorial Hospital  
July 2003 - 2007

Division Chief  
Vascular Surgery  
Greenville Hospital System  
January 2010 – May 2015

Program Director  
Vascular Surgery Fellowship  
Greenville Hospital System  
July 2010 – present

Vascular Medical Director  
Clemson University CVT Leadership Program  
Greenville Hospital System  
June 2015 - present

ACADEMIC AND  
CLINICAL  
APPOINTMENTS: GHS Associate Professor of Clinical Surgery  
University of South Carolina School of Medicine  
Columbia, SC  
March 2006 – June 2015

Clinical Associate Professor  
University of South Carolina School of Medicine  
Greenville, SC  
July 2011 - Present

Adjunct Faculty  
Clemson University Bioengineering  
2013 - present

PROFESSIONAL  
SOCIETIES:

Fellow, American College of Surgeons  
SC American College of Surgeons  
SC Medical Association  
Southeastern Surgical Congress  
Society for Vascular Surgery  
Society for Clinical Vascular Surgery  
Peripheral Vascular Surgery Society  
Southern Association of Vascular Surgery  
South Carolina Surgical Society  
Fellow, Society for Vascular Medicine and Biology  
South Carolina Vascular Surgical Society

- Secretary/Treasurer-2004 – 2010
- President – 2012 – 2013

Vascular Access Society of the Americas

HOSPITAL  
COMMITTEES:

Pharmacy and Therapeutics Committee	2006 – 2014
Radiation Safety Committee	2012 – Present
Graduate Medical Education Committee	2010 – Present
University S.C Medical School	
Admissions Committee	2011 – Present
OR Ops Sub Committee	2014 - Present

POSITIONS OF  
RECOGNITION:

American Board of Surgery Associate Examiner 2012, 2014  
Association of Registered Diagnostic Medical Sonographers:

- Vascular Technology Exam Development Task Force  
Chair and Representative 2011 - 2014
- Exam Development Task Force 2010 - Present

PUBLICATIONS (Journal Articles):

1. Taylor SM, Carsten CG, Langan EM, Sticca RP, Weatherford DA. The Routine Use of Implantable Subcutaneous Infusion Ports: An Outcomes Analysis in an Oncology Population. The Surgical Forum, October, 1996.
2. **Carsten CG III**, Taylor SM, Langan EM, Crane MM. Factors Associated With Limb Loss Despite A Patent Infrainguinal Bypass Graft. American Surgeon, 1998;64:33-38.

3. Langan EM, Miller RS, Casey WJ, Carsten CG, Graham RM, Taylor SM. Prophylactic Inferior Vena Cava Filters in High-Risk Trauma Patients: Follow-up and Risk/Benefit Assessment. *J Vasc Surg.* 1999;30(3):484-88.
4. Carsten CG III, Elmore JR, Franklin DP, Thomas DD, Mordan F, Wood GC. Use of Limited Color-Flow Duplex for a Carotid Screening Project. *Am J Surg.* 1999;178(2):173-6.
5. Carsten CG III, Calton WC, Johanning JM, Armstrong PJ, Franklin DP, Carey DJ, Elmore JR. Elastase is Not Sufficient to Induce Experimental Abdominal Aortic Aneurysms. *J Vasc Surg.* 2001;33(6):1255-62.
6. Cull DL, Taylor SM, Carsten CG, Youkey JR, Snyder BA, Sullivan TM, Langan EM. The Fistula Evaluation Procedure: A Valuable Technique for Maximizing Arteriovenous Fistula Utilization. *Ann Vasc Surg* January 2002; 16: 84-8.
7. Patel AP, Taylor SM, Langan EM III, Snyder BA, Cull DL, Sullivan TM, Youkey JR, Gray BH, Carsten CG III. Obturator Bypass: A Classic Approach for the Treatment of Contemporary Groin Infection. *Am Surg* August 2002; 68 (8): 653-9.
8. Sullivan TM, Taylor SM, Blackhurst DW, Langan EM III, Cull DL, Carsten CG III, Gray BH, Snyder BA, Youkey JR. Has Endovascular Surgery Reduced the Number of Open Vascular Operations Performed by an Established Surgical Practice? *J Vasc Surg* September 2002; 36 (3): 514-9.
9. Bolton WD, Cull DL, Taylor SM, Carsten CG III, Snyder BA, Sullivan TM, Youkey JR, Langan EM III, Gray BH. The Use of Cryopreserved Femoral Vein Grafts for Hemodialysis Access in Patients at High Risk for Infection: A Word of Caution. *J Vasc Surg* September 2002; 36 (3): 464-8
10. Mackrell PJ, Langan EM III, Sullivan TM, Gray BH, Taylor SM, Cull DL, Snyder BA, Youkey JR, Carsten CG III. Management of Renal Artery Stenosis: Effects of a Shift from Surgical to Percutaneous Therapy on Indications and Outcomes. *Ann Vasc Surg* February 2003; 17: 54-9.
11. Taylor SM, Kalbaugh CA, Gray BH, Mackrell PJ, Langan EM III, Cull DL, Snyder BA, Carsten CG III, Stanbro MD, Youkey JR. The LEGS Score: A Proposed Scoring System to Direct Treatment of Chronic Lower Extremity Ischemia. *Ann Surg* June 2003; 237: 812-9.
12. Patel AP, Langan EM III, Taylor SM, Gray BH, Carsten CG III, Cull DL, Snyder BA, Stanbro MD, Youkey JR, Sullivan TM. An Analysis of Standard Open and Endovascular Surgical Repair of Abdominal Aortic Aneurysms in Octogenarians. *Am Surg* 2003 September; 69: 744-8.
13. Mackrell PJ, Kalbaugh CA, Langan EM III, Taylor SM, Sullivan TM, Gray BH, Carsten CG III, Snyder BA, Cull DL, Youkey JR. Can the Perclose Suture-Mediated Closure System be Used Safely in Patients Undergoing Diagnostic and Therapeutic Angiography for Chronic Lower Extremity Ischemia? *J Vasc Surg* 2003 December; 38:1305-8.

14. Cull JD, Cull DL, Taylor SM, Carsten CG III, Snyder BA, Youkey JR, Langan EM III, Blackhurst DW. Prosthetic Thigh Arteriovenous Access: Outcome Using the SVS/AAVS Reporting Standards. *J Vasc Surg* 2004 February; 39:381-6.
15. Patel AP, Langan EM III, Taylor SM, Snyder BA, Cull DL, Carsten CG III, Youkey JR, Gray BH, Sullivan TM. Has the Emergence of Endovascular Treatment for Aneurysmal and Occlusive Aortic Disease Increased the Complexity and Difficulty of Open Aortic Operations. *Ann Vasc Surg* 2004 April; 18: 212-7.
16. Kalbaugh CA, Taylor SM, Blackhurst DW, Gray BH, Langan EM III, Dellinger MB, Carsten CG III, Snyder BA, Cull DL, Youkey JR. Chronic Limb Ischemia Treated According to the Lower Extremity Grading System (LEGS) Score: A Six-Month Report. *J Vasc Surg* 2004 June; 39: 1268-76.
17. Sullivan TM, Patel AP, Gray BH, Langan EM III, Taylor SM, Snyder BA, Cull DL, Carsten CG III, Mackrell PJ, Youkey JR. Selective Extracranial Carotid Angiography Performed by the Vascular Surgery Service: Indications, Technique, and Results. *J Vasc Surg* 2004 November;18:710-3.
18. Carsten CG III, Taylor SM, Cull DL, Langan EM III, Snyder BA, Jackson MR, Youkey JR, Caldwell RA. The Surgically Created Arteriovenous Fistula: A Forgotten Alternative to Venous Access. *Ann Vas Surgery* 2004 November; 18:635-9.
19. Androes MP, Kalbaugh CA, Taylor SM, Blackhurst DW, McClary GE Jr, Gray BA, Langan EM III, Cull DL, Carsten CG III, Snyder BA, Jackson MR, Caldwell RA Hanover TM, York JW, Stanbro MD, Youkey JR. Does a Standardization Tool to Direct Invasive Therapy of Symptomatic Lower Extremity Peripheral Arterial Disease Improve Outcomes? *J Vasc Surgery* 2004 November;40:907-15.
20. Taylor SM, Kalbaugh CA, Blackhurst DW, Hamontree SE, Cull DL, Messich HS, Robertson RT, Langan EM III, York JW, Carsten CG III, Snyder BA, Jackson MR, Youkey JR. Preoperative Clinical Factors Predict Postoperative Functional Outcomes After Major Lower Limb Amputation: An Analysis of 553 Consecutive Patients. *J Vasc Surg* 2005 August;42:227-35.
21. Taylor SM, Kalbaugh CA, Blackhurst DW, Langan EM III, Cull DL, Snyder BA, Carsten CG III, Jackson MR, York JW, Youkey JR. Postoperative Outcomes According to Preoperative Functional Status After Infrainguinal Revascularization for Critical Limb Ischemia in Patients 80 and Older. *Am Surg* 2005 August;71: 633-9.
22. Kalbaugh CA, Taylor SM, Kalbaugh BA, Halliday M, Daniel G, Cass AL, Blackhurst DW, Cull DL, Langan EM III, Carsten CG III, York JW, Snyder BA, Youkey JR. Does Obesity Predict Functional Outcome in the Dysvascular Amputee? *Am Surg* 2006 August;72:707-13.
23. Scott JD, Cull DL, Kalbaugh CA, Carsten CG, Blackhurst D, Taylor SM, Snyder BA, York JW, Langan EM. The Mid-Thigh Loop Arteriovenous Graft: Patient Selection, Technique, and Results. *Am Surg* 2006 September;72(9):825-8.

24. Palmer RM, Cull DL, Kalbaugh CA, Carsten CG III, Taylor SM, Snyder BA, York JW, Langan EM III, Blackhurst DW. Is Surgical Thrombectomy to Salvage Failed Autogenous Arteriovenous Fistulae Worthwhile? *Am Surg* 2006 December; 72(12): 1231-3.
25. Jones WB, Taylor SM, Kalbaugh CA, Blackhurst DW, Langan EM III, Gray BH, Carsten CG III. Lost to Follow-up: A Potential, Under Appreciated Limitation of Endovascular Aneurysm Repair. *J Vasc Surg* September 2007; 46: 434-41.
26. Taylor SM, Kalbaugh CA, Healy MG, Cass AL, Gray BH, Langan EM III, Cull DL, Carsten CG III, York JW, Snyder BA, Youkey JR. Do Current Outcomes Justify More Liberal Use of Revascularization of Vasculogenic Claudication: A Single Center Experience of 1000 Consecutively Treated Limbs. *J Am Coll Surg* May 2008;206(5):1053-1064.
27. Bronder CM, Cull DL, Kuper SC, Carsten CG III, Kalbaugh CA, Cass AL, Watkins T, Taylor SM. Fistula Elevation Procedure: Experience with 295 Cases During a 7-Year Period. *J Am Coll Surg* 2008;206(5):1076-1082
28. Carsten CG III, Kalbaugh CA, Langan EM III, Cass AL, Cull DL, Snyder BA, York JW, Taylor SM. Contemporary Outcomes of Iliofemoral Bypass Grafting for Unilateral Aortoiliac Occlusive Disease: A 10 year Experience. *Am Surg* June 2008;74:555-60.
29. Kendall TW Jr., Cull DL, Carsten CG III, Kalbaugh CA, Cass AL, Taylor SM. The Role of the Prosthetic Axillo-axillary Loop Access as a Tertiary Arteriovenous Access Procedure *J Vasc Surg* 2008 May 30.
30. Morse BC, Cull DL, Kalbaugh Ca, Cass AL, Carsten CG III, Taylor SM. Through-Knee Amputation in Patients with Peripheral Arterial Disease: A Review of 50 Cases. *J Vasc Surg* 2008 June 28.
31. Cull DL, Carsten CG III, Kalbaugh CA, York JW, Campbell TR, Cass AL, Taylor SM. Reverse J A-V Grafts for Hemodialysis Access: Rationale, Technique and Outcomes. *Am Surg* 2008 July;74:620-5.
32. Kendall TW Jr., Cull DL, Carsten CG III, Kalbaugh CA, Cass AL, Taylor AM. The Role of the Prosthetic Axillo-axillary Loop Access as a Tertiary Arteriovenous Access Procedure. *J Vasc Surg* 2008 Aug;48(2):389-93. Epub 2008 Jun 2.
33. Morse BC, Cull DL, Kalbaugh CA, Cass AL, Carsten CG III, Taylor SM. Through-Knee Amputation in Patients with Peripheral Arterial Disease: A Review of 50 Cases. *J Vasc Surg* 2008 Sept;48(3):638-43. June 28 [Epub ahead of print].
34. Taylor SM, Cull DL, Kalbaugh CA, Senter HF, Langan EM III, Carsten CG III, York JW, Snyder BA, Gray BH, Androes MP, Blackhurst DW. Comparison of Interventional Outcomes According to Preoperative Indication: A Single Center Analysis of 2240 Limb Revascularizations. *J Am Coll Surg* 2009;208(5):770-80.
35. Hartley MC, Langan EM III, Cull DL, Taylor SM, Carsten CG III, Blackhurst DW. Evaluation of the Diameter of the Proximal Descending Thoracic Aorta with Age: Implications for Thoracic Aortic Stent Grafting. *Ann Vasc Surg* 2009 Sep-Oct;23(5):639-44. Epub 2009 Jul 17

36. Webb KM, Cull DL, Carsten CG III, Johnson BL, Taylor SM. Outcome of the Use of Stent Grafts to Salvage Failed Arteriovenous Accesses. *Ann Vasc Surg* 2010 Jan; 24(1):34-8. Epub 2009 Sep 16.
37. Carsten CG III. Lower Extremity Arteriovenous Hemodialysis Access: An Important Adjunct in Select Patients. *Semin Vasc Surg* 2011 Jun;24(2):102-7.
38. York JW, Manos GL, Johnson BL, Carsten CG III, Taylor SM, Cull DL, Morse BC, Lowe SC. Intermediate Results of a Non-operative Management Strategy for Blunt Thoracic Aortic Injuries. *J Vasc Surg* 2012 June;55 (1S):100S-1S. (Published abstract)
39. Cull DL, Washer JD, Keahey G, Carsten CG III, Johnson BL. Description and Outcomes of a Simple Surgical Technique to Treat Thrombosed Autogenous Accesses. *J Vasc Surg* 2012 September;56(3):861-5. Epub 2012 July 16.
40. Disbrow DE, Cull DL, Carsten CG III, Yang SK, Johnson BL, Keahey GP. Comparison of Arteriovenous Fistulas and Arteriovenous Grafts in Patients with Favorable Vascular Anatomy and Equivalent Access to Health Care: Is a Reappraisal of the Fistula First Initiative Indicated? *J Am Coll Surg* 2013 Apr;216(4):679-86. Epub 2013 Feb 6.
41. Iglesias RC, Cull DL, Carsten CG III, Jones YR, Keahey GP, Johnson BL. The management of malfunctioning prosthetic arteriovenous accesses by interventional nephrologists and surgeons: A retrospective comparison of long-term outcomes. *J Vasc Access* 2013 Apr-Jun;14(2):120-5. Epub 2012 Oct. 15.
42. Bordoli SJ, Carsten CG III, Cull DL, Johnson BL, Taylor SM. Radiation Safety Education in Vascular Surgery Training: An Unmet Requirement. *J Vasc Surg* 2014 Mar.;59(3):860-4. Epub Dec 18, 2013. PMID: 24360583
43. Cull DL, Langan EM III, Taylor SM, Carsten CG III, Tong A, Johnson BL. The Influence of a Vascular Surgery Hospitalist Program on Physician and Patient Satisfaction, Resident Education, and Resource Utilization. *J Vasc Surg* 2013 Oct;58(4):1123-8. PMID: 2407511
44. Fercana G, Bowser D, Portilla MM, Langan EM, Carsten CG, Cull DL, Sierad LN, Simionescu DT. Platform technologies for decellularization, tunic-specific cell seeding and in vitro conditioning of extended length, small diameter vascular grafts. *Tissue Eng Part C Methods* 2014 Dec;20(12):1016-27. doi: 10.1089/ten.TEC.2014.0047. Epub 2014 Sep 29. PMID: 24749889.
45. Claudeanos KT, Hudgins J, Keahey G, Cull DL, Carsten CG 3rd. Fistulas In Octogenarians: Are They Beneficial? *Ann Vasc Surg*. 2015 Jan;29 (1):98-102. doi: 10.1016/j.avsg.2014.10.002. Epub 2014 Oct 29. [in publication] PMID: 25449982
46. Nosoudi N, Nahar-Gohad P, Sinha A, Chowdhury A, Carsten CG III, Gray BH, Vyavahare N. Preventing Abdominal Aortic Aneurysm Progression: Targeted Inhibition of Matrix Metalloproteinase Activity with Batimastat-loaded Nanoparticles. *CIRCULATION* 2015. [in publication]

47. Rosenfield K, Jaff MR, White CJ, Rocha-Singh K, Mena-Hurtado C, Metzger DC, Brodmann M, Pilger E, Zeller T, Krishnan P, Gammon R, Müller-Hülsbeck S, Nehler MR, Benenati JF, Scheinert D; LEVANT 2 Investigators (Gray B, Androes M, Carsten C, Cull DL, Hanover T, Langan E, Snyder B, Taylor S). Trial of a Paclitaxel-Coated Balloon for Femoropopliteal Artery Disease. *N Engl J Med*. 2015 Jul 9;373(2):145-53. Epub 2015 Jun 24. PMID: 26106946

#### PRESENTATIONS:

1. The Routine Use of Implantable Subcutaneous Infusion Ports In Cancer Patients: A Complication and Cost Analysis. South Carolina Chapter of the American College of Surgeons Meeting, Charleston, South Carolina. February 1995.
2. Pathophysiology of Cerebrovascular Disease. Vascular Symposium, Greenville, South Carolina, June, 1996
3. Claudication In The Young Adult: A Case Report and Review. South Carolina Chapter of The American College of Surgeons Meeting, Greenville, South Carolina, March, 1996.
4. Factors Associated With Limb Loss Despite A Patent Infrainguinal Bypass Graft. Southeastern Surgical Congress, Nashville, Tennessee, February, 1997.
5. Prophylactic Vena Cava Interruption: Safety, Efficacy, and Long-term Follow -up. South Carolina Chapter of The American College of Surgeons Meeting, Columbia, South Carolina, March, 1997.
6. Lower Extremity Revascularization Based on Intraoperative Angiography and Noninvasive Vascular Lab Exam. South Carolina Surgical Society Meeting, Sea Island, Georgia, June, 1997.
7. Use of Limited Color-Flow Duplex for a Carotid Screening Project. Society for Clinical Vascular Surgery Annual Meeting, Orlando, Florida, March 1999.
8. Elastase is Not Sufficient to Induce Experimental Abdominal Aortic Aneurysms. Poster Presentation, 28<sup>th</sup> Annual Meeting of The Society for Clinical Vascular Surgery, Rancho Mirage, California, March 2000.
9. The Fistula Elevation Procedure: A Valuable Technique for Maximizing Arteriovenous Fistula Utilization. South Carolina Surgical Society, Sea Island, Georgia, July, 13, 2001.
10. Carsten CG, Youkey JR. Aorto-iliac Occlusive Disease: The Aorto-bifemoral Bypass and the Horse and Buggy. Fifth Annual Vascular Symposium, Greenville Memorial Hospital, Greenville, South Carolina, November 9, 2001.
11. Sullivan TM, Taylor SM, Blackhurst DW, Langan EM, Cull DL, Carsten CG, Gray BH, Snyder BA, Youkey JR. Has Endovascular Surgery Reduced the Number of Open



Vascular Operations Performed by an Established Surgical Practice? Southern Association for Vascular Surgery, Miami Beach, Florida, Jan. 16-19, 2002.

12. Bolton WD, Cull DL, Taylor SM, Langan EM, Sullivan TM, Snyder BA, Youkey JR, Gray BH, Carsten CG. The Use of Cryopreserved Femoral Vein Grafts for Hemodialysis Access in Patients at High Risk for Infection: A Word of Caution. Southern Association for Vascular Surgery, Miami Beach, Florida, Jan. 16-19, 2002
13. Mackrell PJ, Langan EM, Sullivan TM, Taylor SM, Snyder GA, Cull DL, Gray BH, Carsten CG, Youkey JR. Endovascular Repair of Aortic Bypass Graft Pseudoaneurysms: Insight into Management Decisions and Technical Factors. Southern Association for Vascular Surgery, Miami Beach, Florida, Jan. 16-19, 2002
14. Patel AP, Taylor SM, Langan EM, Snyder BA, Cull DL, Sullivan TM, Youkey JR, Gray BH, Carsten CG. Obturator Bypass: A Classic Approach for the Treatment of Contemporary Groin Infection. Southeastern Surgical Congress, Nashville, Tennessee, February 3-5, 2002.
15. Carotid Angioplasty: A Vascular Surgeons Perspective. Second Annual General Surgery Update, University of South Carolina School of Medicine, Columbia, South Carolina, June 6, 2002.
16. Carotid Endarterectomy: A Contemporary Analysis. Second Annual General Surgery Update, University of South Carolina School of Medicine, Columbia, South Carolina, June 6, 2002.
17. Carsten CG III. Carotid Artery Disease: Symptoms, Diagnosis, and Treatment Options. 6<sup>th</sup> Annual Vascular Symposium, Greenville Memorial Medical Center, Greenville, SC, Oct. 11, 2002.
18. Patel AP, Cull DL, Taylor SM, Langan EM, Snyder BA, Sullivan TM, Youkey JR, Carsten CG. The Chest Wall Arterio-venous Graft: An Alternative Tertiary Access Procedure. 96<sup>th</sup> Annual Scientific Assembly of the Southern Medical Association, Washington, DC, Nov. 13-16, 2002.
19. Taylor SM, Kalbaugh CA, Gray BH, Mackrell PJ, Langan EM III, Cull DL, Snyder BA, Carsten CG III, Stanbro MD, Youkey JR. The LEGS Score: A Reproducible Scoring System to Grade and Treat Chronic Lower Extremity Ischemia. Southern Surgical Association Annual Meeting, Palm Beach, FL, Dec. 1-4, 2002.
20. Patel AP, Langan EM III, Taylor SM, Snyder BA, Cull DL, Carsten CG III, Youkey JR, Gray BH. Has the Emergence of Endovascular Treatment for Aneurysmal and Occlusive Aortic Disease Increased the Complexity and Difficulty of Open Aortic Operations? The Southern Association for Vascular Surgery, Tucson, AZ, Jan. 15-18, 2003.
21. Mackrell PJ, Kalbaugh CA, Langan EM III, Taylor SM, Gray BH, Carsten CG III, Sullivan TM, Snyder BA, Cull DL, Youkey JR. Can the Perclose Suture Mediated Closure System be Used Safely in Patients Undergoing Diagnostic and Therapeutic Angiography for Chronic Lower Extremity Ischemia? The Southern Association for Vascular Surgery, Tucson, AZ, Jan. 15-18, 2003.

22. Carsten CG III, Sullivan TM, Langan EM III, Blackhurst D, Gray BH, Taylor SM, Cull, DL, Snyder BA, Youkey JR. The Selective Application of Endovascular Techniques for Abdominal Aortic Aneurysm Repair. Peripheral Vascular Surgery Society Winter Meeting, Snowmass, CO, Jan. 31-Feb. 2, 2003.
23. Patel AP, Langan EM III, Sullivan TM, Gray BH, Taylor SM, Carsten CG III, Cull DL, Snyder BA, Youkey JR. A Comparison of Standard Open Surgical Repair and Endovascular Repair of Abdominal Aortic Aneurysms in Octogenarians. The Southeastern Surgical Congress Annual Scientific Meeting, Savannah, GA, Feb. 9-11, 2003.
24. Carsten CG III, McGill ES. Trauma Evaluation and Management: An Overview. South Carolina State Assembly of Surgical Technologists 2<sup>nd</sup> Annual Spring Fling Educational Workshop, Greenville, SC, April 5, 2003.
25. Cull JD, Cull DL, Taylor SM, Carsten CG III, Snyder BA, Youkey JR, Langan EM III, Blackhurst DW. Prosthetic Thigh Arteriovenous Access: A Reappraisal of Outcome Using the SVS/AAVS Reporting Standards for Arteriovenous Access. SVS/AAVS Vascular 2003 Annual Meeting, Toronto, Ontario, Canada, June 8-11, 2003
26. Carsten CG III, Coffey CB. Abdominal Duplex Examination for Follow-up of AAA Stent Graft Exclusions. Greenville Hospital System Cardiovascular Symposium, Embassy Suites Hotel, Greenville, South Carolina, October 9, 2003.
27. Carsten CG III, Coffey CB. Essential Duplex Ultrasound Capabilities to Identify and Treat Venous Disorders. Greenville Hospital System Cardiovascular Symposium, Embassy Suites Hotel, Greenville, South Carolina, October 9, 2003.
28. Kalbaugh CA, Taylor SM, Blackhurst DW, Gray BH, Langan EM III, Dellinger MB, Carsten CG III, Snyder BA, Cull DL, Youkey JR. Chronic Limb Ischemia Treated According to the Lower Extremity Grading System (LEGS) Score: A Six-Month Report. Southern Association for Vascular Surgery, Rio Grande, Puerto Rico, Jan. 14-17, 2004.
29. Carsten CG III, Taylor SM, Cull DL, Langan EM III, Snyder BA, Jackson MR, Youkey JR, Caldwell RA. The Surgically Created Arteriovenous Fistula: A Forgotten Alternative to Venous Access. Peripheral Vascular Surgery Society Winter Meeting, Steamboat Springs, CO, Jan. 30-Feb. 1, 2004.
30. Carsten CG III. Vascular Disease and Surgery. Clemson University, Clemson, South Carolina, April 14, 2004.
31. Androes MP, Kalbaugh CA, Taylor SM, Blackhurst DW, McClary GE Jr, Gray BA, Langan EM III, Cull DL, Carsten CG III, Snyder BA, Jackson MR, Caldwell RA, Youkey JR. Does a Standardization Tool to Direct Invasive Therapy of Symptomatic Lower Extremity Peripheral Arterial Disease Improve Outcomes? Vascular Annual Meeting 2004 (Society for Vascular Surgery), Anaheim, CA, June 3-6, 2004.
32. Carsten CG III. Pearls in Access Surgery. American College of Surgeons 90<sup>th</sup> Annual Clinical Congress, New Orleans, LA, October 10-14, 2004.

33. Androes MP, Langan EM III, Kalbaugh CA, Blackhurst DW, Gray BH, Taylor SM, Carsten CG III, York JW, Jackson MR, Cull DL. Is Incidental Renal Arteriography Justified in a Population of Patients with Symptomatic Peripheral Arterial Disease? Southern Association for Vascular Surgery, Marco Island, Florida, Jan. 19-22, 2005.
34. Taylor SM, Kalbaugh CA, Blackhurst DW, Hamontree SE, Cull DL, Messich HS, Robertson RT, Langan EM III, York JW, Carsten CG III, Snyder BA, Jackson MR, Youkey JR. Preoperative Clinical Factors Predict Postoperative Functional Outcomes After Major Lower Limb Amputation: An Analysis of 553 Consecutive Patients. Southern Association for Vascular Surgery, Marco Island, Florida, Jan. 19-22, 2005.
35. Gray BH, Higgenbotham S, Kalbaugh CA, Blackhurst DW, Sullivan TM, Langan EM III, Taylor SM, Cull DL, Carsten CG III, Snyder BA, Youkey JR, Jackson MR. Tibial Artery Angioplasty for Lower Extremity Ischemia. Southern Association for Vascular Surgery, Marco Island, Florida, Jan. 19-22, 2005.
36. Taylor SM, Kalbaugh CA, Blackhurst DW, Langan EM III, Cull DL, Snyder BA, Carsten CG III, Jackson MR, York JW, Youkey JR. Postoperative Outcomes According to Preoperative Functional Status After Infrainguinal Revascularization for Critical Limb Ischemia in Patients 80 and Older. Southeastern Surgical Congress, New Orleans, LA, Feb. 10-15, 2005.
37. Carsten CG III, Coffey C. Imaging – Carotids. Second Annual Cardiovascular Symposium - Greenville Hospital System. Greenville, SC, February 17-18, 2005.
38. Carsten CG III. Advances in Arterial Trauma Therapy. 8<sup>th</sup> Annual Southeastern Trauma Symposium, Columbia, SC, Nov. 4, 2005.
39. Taylor SM, Kalbaugh CA, Blackhurst DW, Cass AL, Trent EA, Langan EM III, Cull DL, Snyder BA, Gray BH, Carsten CG III, York JW, Youkey JR. Determinants of Functional Outcome After Revascularization for Critical Limb Ischemia: An Analysis of 1000 Consecutively Treated Lower Extremities. Southern Association for Vascular Surgery, Phoenix, AZ, January 18-21, 2006.
40. Kalbaugh CA, Taylor SM, Gray BH, Langan EM III, Jackson MR, Blackhurst DW, Dellinger MG, Carsten CG III, Cull DL, York JW, Snyder BA, Youkey JR. One-Year Prospective Quality of Life Outcomes in Patients Treated with Angioplasty for Symptomatic Peripheral Arterial Disease. Southern Association for Vascular Surgery, Phoenix, AZ, January 18-21, 2006.
41. Kalbaugh CA, Taylor SM, Halliday M, Daniels G, Cass AL, Blackhurst DW, Cull DL, Langan EM III, Carsten CG III, Jackson MR, York JW, Snyder BA, Youkey JR. Does Obesity Predict Functional Outcome in the Dysvascular Amputee? Southeastern Surgical Congress, Lake Buena Vista, FL, Feb. 18-21, 2006
42. Taylor SM, Kalbaugh CA, Blackhurst DW, Trent EA, Cull DL, Langan EM III, Snyder BA, Carsten CG III, York JW, Youkey JR. Does Percutaneous Transluminal Angioplasty for Critical Limb Ischemia Benefit Physiologically Impaired Patients Unsuitable for Open Surgery? Peripheral Vascular Surgery Society Spring Meeting, Philadelphia, PA, June 2-3, 2006.
43. Kendall TW, Cull DL, Kalbaugh CA, Cass AL, Taylor SM, Carsten CG III. The Axillo-Axillary Arteriovenous Graft: Technique and Outcomes in the Obese Patient. The

Society for Clinical Vascular Surgery 35<sup>th</sup> Annual Symposium, Orlando, FL, Mar. 21-24, 2007.

44. Eugene M. Langan, III, Charles S. Joels, Corey A. Kalbaugh, David L. Cull, Christopher G. Carsten, III, Spence M. Taylor. The Effects of Increased Vascular Surgical Specialization on General Surgery Trainees, Practicing Surgeons, and the Provision of Vascular Surgical Care. The Southern Surgical Association, West Palm Beach, FL, Nov. 30-Dec. 3, 2008.
45. York JW, Taylor SM, Cull DL, Kalbaugh CA, Carsten CG III, Langan EM III, Snyder BA, Hanover TM, Androes M, Gray BH. Is Clinical Success after Lower Extremity Revascularization for Ischemic Tissue Loss Affected by Method of Revascularization? Southern Association for Vascular Surgery, Tucson, AZ, Jan. 14-17, 2009.
46. Schneider CR, Carsten CG III. A Unique Exposure of the Profunda Femoral Artery to Repair a Popliteal Artery Aneurysm. Southern Association for Vascular Surgery, Tucson, AZ, Jan. 14-17, 2009.
47. Bronder CM, Hochstetler MR Jr., Carsten CG III. Cystic Adventitial Disease of the Popliteal Vein Presenting as a DVT: A Case Report. Southern Association for Vascular Surgery, Tucson, AZ, Jan. 14-17, 2009.
48. Christopher G. Carsten, III, et al. Outcome of the Viabahn Endoprosthesis to Salvage Failed Arteriovenous Accesses. Peripheral Vascular Surgery Society, Steamboat Springs, CO, Jan. 30-Feb. 1, 2009.
49. Christopher G. Carsten, III, MD. Access & Closure for Infrainguinal Procedures: Pearls and Pitfalls. The 4<sup>th</sup> Annual Sanctuary of Endovascular Therapy, Kiawah Island, SC, Feb. 19-21, 2009.
50. Christopher G. Carsten, III, MD. Complex/Exotic Access Procedures. Vascular Annual Meeting (SVS), Denver, CO, June 10, 2009
51. Christopher G. Carsten, III, MD. PVD – What Imaging/When? NIVL-CTA/MRA – Angiography. Second Annual Vascular Disease Seminar for the Primary Care Physician, Greenville Memorial Hospital, Greenville, SC, March 13, 2009.
52. Hartley MC, Langan EM III, Taylor SM, Johnson B, Androes MP, Carsten CG III. Clinical outcome Trends of Type B Aortic Dissections in South Carolina. 34<sup>th</sup> Annual Southern Association for Vascular Surgery Meeting, Paradise Island, Bahamas, Jan. 20-23, 2010.
53. Carsten CG III. Non-Dialysis AV Access – Who, When and Why? The 5<sup>th</sup> Annual Sanctuary of Endovascular Therapy, Kiawah Island, SC, Feb. 18-20, 2010.
54. Carsten CG III. Advanced Endo Options: Is it Worth it? The 5<sup>th</sup> Annual Sanctuary of Endovascular Therapy, Kiawah Island, SC, Feb. 18-20, 2010.
55. Christopher G. Carsten, III, MD. Understanding Hemodialysis. Association for VascularAccess, Washington, DC, Sept. 24-26, 2010.

56. Christopher G. Carsten, III, MD. Chronically Ill Patients with Poor Vascular Access: Options and Care. Association for Vascular Access, Washington, DC, Sept. 24-26, 2010.
57. Christopher G. Carsten, III, MD. Vascular Patients with Poor Vasculature? Vascular Access Options and Care, Foothills Association for Vascular Access, Asheville, NC, Feb. 10, 2011.
58. Christopher G. Carsten, III, MD. Is Surveillance of Peripheral Arteries for Aneurysm Development Necessary for Patients with Abdominal Aortic Aneurysms? 19<sup>th</sup> Annual JD Ashmore Lectureship, Greenville, SC, Jun. 17, 2011.
59. Carsten CG III. Ultrasound Evaluation of AAA and EVAR. GHS Vascular Symposium, Greenville Hospital System, Greenville, SC, Aug. 6, 2011.
60. Carsten CG III. Is Surveillance of Peripheral Arteries for Aneurysm Development Necessary for Patients with Abdominal Aortic Aneurysms? 19<sup>th</sup> Annual JD Ashmore Lectureship, Greenville, SC, Jun. 17, 2011.
61. Carsten CG III. Vascular Patients with Poor Vasculature? Vascular Access Options and Care, Foothills Association for Vascular Access, Asheville, NC, Feb. 10, 2011.
62. Carsten CG III. Alternative uses for AV Fistulas. Upstate Infusion Nurses Society, Greenville, SC, Jan. 12, 2012.
63. Washer JD, Cull DL, Keahey G, Carsten CG III, Johnson BL. Salvaging Thrombosed Autogenous Access with Surgical Thrombectomy: Description of a Simple Technique and Its Outcomes. Peripheral Vascular Surgery 22<sup>nd</sup> Annual Winter Meeting, Vail, CO, Jan. 27-29, 2012.
64. Carsten CG III, Keahey G, Cull DL. Arteriovenous Access for Plasmapheresis. Vascular Access Society of the Americas, Vascular Access for Hemodialysis XIII Symposium, Orlando, FL, May 9-11, 2012.
65. York JW, Manos GL, Johnson BL, Carsten CG III, Taylor SM, Cull DL, Morse BC, Lowe SC. Intermediate Results of a Non-operative Management Strategy for Blunt Thoracic Aortic Injuries. The Society for Vascular Surgery, National Harbor, MD, June 7-9, 2012.
66. Disbrow DE, Cull DL, Carsten CG III, Yang SK, Johnson BL, Keahey GP. Comparison of Arteriovenous Fistula and Arteriovenous Grafts in Patients with Favorable Vascular Anatomy and Equivalent Access to Healthcare: Is a Reappraisal of the Fistula First Program Indicated? Southern Surgical Association, Palm Beach, FL, Dec. 2-5, 2012.
67. David L. Cull, M.D., Eugene M. Langan, III, M.D., Spence M. Taylor, M.D. Christopher G. Carsten, III, M.D., Angie Tong, B.A., Brent Johnson, M.S. The Influence of a Vascular Surgery Hospitalist Program on Physician and Patient Satisfaction, Resident Education, and Resource Utilization. Society for Clinical Vascular Surgery, Miami, FL, March 12-16, 2013.

68. Bordoli SJ, Carsten CG III, Cull DL, Johnson BL, Taylor SM. Radiation Safety Education in Vascular Surgery Training: An Unmet Requirement. Society for Clinical Vascular Surgery, Miami, FL, March 12-16, 2013.
69. Carsten CG III. The Greenville Health System Simulation Experience. Association for Program Directors in Vascular Surgery, Rosemont, IL, March 22-23, 2013.
70. Eckenrode AH, Cull DL, Carsten CG III. Complex Vascular Access: The Greenville Experience. 21<sup>st</sup> Annual JD Ashmore Lectureship, Greenville Health System, Greenville, SC, June 14, 2013.
71. Carsten CG III. Alternative Access for the Very Long Term. Association for Vascular Access, Nashville, TN, Sept. 20-23, 2013
72. Carsten CG III. Open Access Construction in the Obese Patient: A Practical Guide. Southern Association for Vascular Surgery, Palm Beach, FL, Jan. 15-18, 2014.
73. Claudeanos KT, Cull DL, Keahey G, Hudgins J, Carsten CG III. Fistulas in Octogenarians: Are They Beneficial? Peripheral Vascular Surgery Society, Steamboat Springs, CO, Jan. 30-Feb. 2, 2014.
74. Carsten CG III. Dealing with the Problem Trainee. Association of Vascular Surgery Coordinators (AVSC), Chicago, IL, March 29, 2014.
75. Gucwa AL, Carsten CG III, Cull DL. Description and Outcomes of a Simple Surgical Technique for Treating Arteriovenous Fistula Pseudoaneurysms. Vascular Access Society of the Americas, Dallas, TX, May 1-3, 2014.
76. Carsten CG III. Hemodialysis Access Trouble Shooting. Greenville County EMS, Greenville, SC, May 6, 2014.
77. Carsten CG III. The AV Fistula: An Alternative to the Port. Hemophilia of South Carolina Organization Annual Meeting, Greenville, SC, June 6-7, 2014.
78. Carsten CG III. Contemporary Management of Access Related Limb Ischemia. American College of Surgeons Annual Clinical Congress 2014, San Francisco, CA, October 26 – 30, 2014

## BOOK CHAPTERS

1. Mackrell P, Cull D, Carsten C. Hemodialysis Access: Placement and Management of Complications. In: Hallett J, Mills J, Earnshaw J, Reekers J, eds. Comprehensive Vascular and Endovascular Surgery. Edinburgh: Mosby; 2004:361-390.
2. Androes MP, Cull DL, Carsten CG III. The Challenges of Hemodialysis Access. In: Zelenock G, Huber T, Messina L, Lumsden A, Moneta G, eds. Mastery of Vascular and Endovascular Surgery. Philadelphia: Lippincott Williams & Wilkins; 2005.

3. Carsten CG, Langan EM III. Management of Arterial Closure Device Complications. *Trends In Vascular Surgery*. Evanston IL: Greenwood Academic; 2006; 455-460.
4. Quinn BM, Cull DL, Carsten CG III. Hemodialysis Access: Placement and Management of Complications. In: Hallett J, Mills J, Earnshaw J, Reekers J, Rooke T (ed), *Comprehensive Vascular and Endovascular Surgery*, 2nd Edition. Philadelphia: Elsevier, 2009.
5. Carsten CG III, Langan EM III. Management of Complications after Revascularization. In: Rodriguez HE, Pearce WH, Yao JST (eds). *Modern Trends in Vascular Surgery - The Ischemic Extremity: New Findings and Treatment*. Shelton, CT: People's Medical Publishing House-USA, June 2010.
6. Koleilat I, Carsten CG III. Preoperative Evaluation of the Vascular Patient, In: Valentine RJ, Eidt JF, editors. *Scientific American Vascular Surgery*. Hamilton, Ontario, Canada: Decker Intellectual Properties, Inc 2015. (in press)

#### POSTER PRESENTATIONS:

1. Bolton WD, Langan EM III, Puls LE, Taylor SM, Sullivan TM, Hunter JE, Cull DL, Snyder BA, Youkey JR, Carsten CG III, Gray BH. Inferior Venacaval Filters as Pulmonary Embolism Prophylaxis in Women Undergoing Surgery for Pelvic Gynecological Malignancies. Southeastern Surgical Congress Annual Scientific Meeting, Savannah, GA, Feb. 9-11, 2003.
2. Palmer RM, Cull DL, Kalbaugh, Carsten CG III, Snyder BA, Jackson MR, York JW, Langan EM III, Blackhurst DW, Taylor SM. Is Surgical Thrombectomy to Salvage Failed Native Arteriovenous Fistulae Worthwhile? Southeastern Surgical Congress, Lake Buena Vista, FL, Feb. 18-21, 2006
3. Scott JD, Cull DL, Kalbaugh CA, Carsten CG III, Blackhurst DW, Taylor SM, Snyder BA, Jackson MR, York JW, Langan EM III. The Mid-Thigh Loop Arteriovenous Graft: Patient Selection, Technique and Results. Southeastern Surgical Congress, Lake Buena Vista, FL, Feb. 18-21, 2006.

#### ABSTRACTS SUBMITTED:

1. Sullivan TM, Patel AP, Gray BH, Langan EM III, Taylor SM, Snyder BA, Cull DL, Carsten CG III, Mackrell PJ, Youkey JR. Selective Extracranial Carotid Angiography Performed by the Vascular Surgery Service: Indications, Technique, and Results. Midwestern Vascular Surgical Society, Madison, WI, Sept. 13, 2002.
2. Taylor SM, Kalbaugh CA, Gray BH, Mackrell PJ, Langan EM, Cull DL, Snyder BA, Carsten CG III, Stanbro MD, Youkey JR. The LEGS Score: A Reproducible Scoring

System to Grade and Treat Chronic Lower Extremity Ischemia. Southern Surgical Association, Palm Beach, FL, Dec. 1-4, 2002.

3. Mackrell PJ, Kalbaugh CA, Langan EM III, Taylor SM, Gray BH, Carsten CG III, Sullivan TM, Snyder BA, Cull DL, Youkey JR. Can the Perclose Suture Mediated Closure System be Used Safely in Patients Undergoing Diagnostic and Therapeutic Angiography for Chronic Lower Extremity Ischemia? The Southern Association for Vascular Surgery, Tucson, AZ, Jan. 15-18, 2003
4. Patel AP, Langan EM III, Taylor SM, Snyder BA, Cull DL, Carsten CG III, Youkey JR, Gray BH. Has the Emergence of Endovascular Treatment for Aneurysmal and Occlusive Aortic Disease Increased the Complexity and Difficulty of Open Aortic Operations? The Southern Association for Vascular Surgery, Tucson, AZ, Jan. 15-18, 2003.
5. Patel AP, Langan EM III, Sullivan TM, Gray BH, Taylor SM, Carsten CG III, Cull DL, Snyder BA, Youkey JR. A Comparison of Standard Open Surgical Repair and Endovascular Repair of Abdominal Aortic Aneurysms in Octogenarians. Southeastern Surgical Congress, Savannah, GA, Feb. 9-11, 2003.
6. Bolton WD, Langan EM III, Puls LE, Taylor SM, Sullivan TM, Hunter JE, Cull DL, Snyder BA, Youkey JR, Carsten CG III, Gray BH. Inferior Venacaval Filters as Pulmonary Embolism Prophylaxis in Women Undergoing Surgery for Pelvic Gynecological Malignancies. Southeastern Surgical Congress, Savannah, GA, Feb. 9-11, 2003
7. Mackrell PJ, Kalbaugh CA, Langan EM III, Taylor SM, Gray BH, Carsten CG III, Sullivan TM, Snyder BA, Cull DL, Youkey JR. Can the Perclose Suture Mediated Closure System be Used Safely in Patients Undergoing Diagnostic and Therapeutic Angiography for Chronic Lower Extremity Ischemia? Society for Clinical Vascular Surgery, Miami, FL, Mar. 5-9, 2003.
8. Kalbaugh CA, Taylor SM, Blackhurst DW, Gray BH, Mackrell PJ, Langan EM III, Cull DL, Snyder BA, Carsten CG III, Stanbro MD, Youkey JR. The LEGS Score as a Predictor of Best Interventional Therapy for Chronic Limb Ischemia: A Six- Month Prospective Outcomes Study. Society for Vascular Surgery/American Association for Vascular Surgery, Toronto, Ontario, Canada, June 8-11, 2003.
9. Cull JD, Cull DL, Taylor SM, Carsten CG III, Snyder BA, Youkey JR, Langan EM III, Blackhurst DW. Prosthetic Thigh Arteriovenous Access: A Reappraisal of Outcome Using the SVS/AAVS Reporting Standards for Arteriovenous Access. Society for Vascular Surgery/American Association for Vascular Surgery, Toronto, Ontario, Canada, June 8-11, 2003.
10. Eugene M. Langan, III, Charles S. Joels, Corey A. Kalbaugh, David L. Cull, Christopher G. Carsten, III Spence M. Taylor. The Effects of Increased Vascular Surgical Specialization on General Surgery Trainees, Practicing Surgeons, and Provision of Vascular Surgical Care. The Southern Surgical Association, West Palm Beach, FL, Nov. 30-Dec. 3, 2008.
11. Langan EM III, Youkey JR, Sullivan TM, Taylor SM, Gray BH, Cull DL, Carsten CG III, Snyder BA, Stanbro MD. Multi-specialty Endovascular Core Credentialing Including Carotid Angiography, Angioplasty and Stenting – One Institution's Experience. Southern Association for Vascular Surgery, Rio Grande, Puerto Rico, Jan. 14-17, 2004.



12. Langan EM III, Taylor SM, Snyder EE, Snyder BA, Cull DL, Carsten CG III, Jackson MR, Youkey JR, Caldwell RA, Blackhurst DW. Collagen-Impregnated Dacron Patch Angioplasty After Carotid Endarterectomy: Are Results Truly Inferior? Southern Association for Vascular Surgery, Rio Grande, Puerto Rico, Jan. 14-17, 2004.
13. Kalbaugh CA, Taylor SM, Blackhurst DW, Gray BH, Langan EM III, Dellinger MB, Carsten CG III, Snyder BA, Cull DL, Youkey JR. Chronic Limb Ischemia Treated According to the Lower Extremity Grading System (LEGS) Score: A Six-Month Report. Southern Association for Vascular Surgery, Rio Grande, Puerto Rico, Jan. 14-17, 2004.
14. Carsten CG III, Taylor SM, Cull DL, Langan EM, Snyder BA, Jackson MR, Youkey JR, Caldwell RA. The Surgically Created Arteriovenous Fistula: A Forgotten Alternative to Venous Access. Peripheral Vascular Surgery Society Winter Meeting, Steamboat Springs, CO, Jan. 30-Feb. 1, 2004.
15. Carsten CG III, Taylor SM, Cull DL, Langan EM, Snyder BA, Jackson MR, Youkey JR, Caldwell RA. The Surgically Created Arteriovenous Fistula: A Forgotten Alternative to Central Venous Access. Southeastern Surgical Congress, Atlanta, GA, Jan. 31-Feb 3, 2004.
16. Kalbaugh CA, Taylor SM, Gray BH, Blackhurst DW, Langan EM III, Carsten CG III, Patel AP, Caldwell RA. Does the Presence of Diabetes Mellitus Affect the Results of Percutaneous Transluminal Angioplasty for Chronic Limb Ischemia? American College of Cardiology, New Orleans, Louisiana, March 7-10, 2004.
17. Carsten CG III, Taylor SM, Cull DL, Langan EM, Snyder BA, Jackson MR, Youkey JR, Caldwell RA. The Surgically Created Arteriovenous Fistula: A Forgotten Alternative to Venous Access. Society for Clinical Vascular Surgery, Rancho Mirage, CA, March 10-14, 2004.
18. Patel AP, Langan EM III, Taylor SM, Snyder BA, Cull DL, Carsten CG III, Youkey JR, Jackson MR. Carotid Endarterectomy in a High-risk Patient Population: Examination of Postoperative Stroke, Death and Myocardial Infarction. Society for Clinical Vascular Surgery, Rancho Mirage, CA, March 10-14, 2004.
19. Androes, MP, Kalbaugh, CA, Taylor Sr., SM, Blackhurst, DW, McClary, Jr., GE, Gray, BH, Langan, III, EM, Cull, DL, Carsten, III, CG, Snyder, BA, Jackson, MR, Caldwell, RA, Youkey, JR. Does a Standardization Tool to Direct Invasive Therapy of Symptomatic Lower Extremity Peripheral Arterial Disease Improve Outcomes? Society for Vascular Surgery, Anaheim, CA, June 3-6, 2004.
20. Cull, DL, Hanover, TM, Carsten, III, CG, McClary, Jr., GE, Taylor, SM, Youkey, JR, Snyder, BA, Jackson, MR, Langan, III, EM. The Vascular Access Score: A Tool for Standardizing Patient Selection for Arteriovenous Access Site and Procedure. Society for Vascular Surgery, Anaheim, CA, June 3-6, 2004.
21. Langan EM III, Taylor SM, Snyder EE, Snyder BA, Cull DL, Carsten CG III, Jackson MR, Youkey JR, Caldwell RA, Blackhurst DW. Collagen-Impregnated Dacron Patch Angioplasty After Carotid Endarterectomy: Are Results Truly Inferior? Peripheral Vascular Surgery Society Spring Meeting, Anaheim, CA, June 4-5, 2004.

22. Jones WT III, Langan EM III, Gray BH, Androes MP, Hanover TM, Kalbaugh CA, Carsten CG III, Cull DL, Jackson MR, Snyder BA, York JW, Taylor SM, Youkey JR. Repair of an Abdominal Aortic Aneurysm After AneuRx Stent Graft Migration in a Severely Angulated Neck. Southern Association for Vascular Surgery, Marco Island, Florida, Jan. 19-22, 2005.
23. Androes MP, Langan EM III, Kalbaugh CA, Blackhurst DW, Gray BH, Hanover TM, Jones WT, Taylor SM, Carsten CG III, York JW, Jackson MR, Cull DL, Snyder BA, Youkey JR. Is Incidental Renal Arteriography Justified in a Population of Patients with Symptomatic Peripheral Arterial Disease? Peripheral Vascular Surgery Society Winter Meeting, Steamboat Springs, CO, Jan. 28-31, 2005.
24. Androes MP, Langan EM III, Kalbaugh CA, Blackhurst DW, Gray BH, Taylor SM, Carsten CG III, York JW, Jackson MR, Cull DL. Is Incidental Renal Arteriography Justified in a Population of Patients with Symptomatic Peripheral Arterial Disease? Society for Clinical Vascular Surgery, Coral Gables, FL, Mar. 9-13, 2005.
25. WT Jones III, EM Langan III, CG Carsten III, CA Kalbaugh, SM Taylor, DL Cull, BA Snyder, BH Gray, MR Jackson, JW York, JR Youkey. A Contemporary Look at the Iliofemoral Bypass for Unilateral Iliac Disease. Peripheral Vascular Surgery Society, Chicago, IL, June 17-18, 2005.
26. Taylor SM, Kalbaugh CA, Blackhurst DW, Cass AL, Trent EA, Langan EM III, Cull DL, Snyder BA, York JW, Gray BH, Jackson MR, Carsten CG III, Youkey JR. Determinants of Ultimate Outcome After Revascularization for Critical Limb Ischemia – An Analysis of 1000 Consecutively Treated Lower Extremities. Southern Surgical Association, Hot Springs, VA, Dec. 4-7, 2005.
27. Taylor SM, Kalbaugh CA, Blackhurst DW, Cass AL, Trent EA, Langan EM III, Cull DL, Snyder BA, Gray BH, Carsten CG III. Functional Outcome After Revascularization for Critical Limb Ischemia – An Analysis of 1000 Consecutively Treated Lower Extremities. Southern Association for Vascular Surgery, Phoenix, AZ, Jan. 18-21, 2006.
28. Kalbaugh CA, Taylor SM, Jackson MR, Blackhurst DW, Dellinger MB, Gray BH, Langan EM III, Carsten CG III. One Year Prospective Quality of Life Outcomes in Patients Treated With Angioplasty for Symptomatic Peripheral Arterial Disease. Southern Association for Vascular Surgery, Phoenix, AZ, Jan. 18-21, 2006.
29. York JW, Kalbaugh CA, Blackhurst DW, Hall LT, Gray BH, Langan EM III, Carsten CG III, Jackson MR, Cull DL, Taylor SM. SFA Angioplasty for Limb Salvage in Patients With Critical Limb Ischemia: A 6-Year Experience. Southern Association for Vascular Surgery, Phoenix, AZ, Jan. 18-21, 2006.
30. Jones WT III, Carsten CG III, Langan EM III, Kalbaugh CA, Hanover TM, Taylor SM, Cull DL, Snyder BA, Gray BH, Jackson MR. A Contemporary Look at the Iliofemoral Bypass for Unilateral Iliac Disease. Peripheral Vascular Surgery Society Winter Meeting, Park City, UT, Jan. 27-29, 2006.
31. York JW, Kalbaugh CA, Blackhurst DW, Hall LT, Gray BH, Langan EM III, Carsten CG III, Jackson MR, Cull DL, Taylor SM. SFA Angioplasty for Limb Salvage in Patients With

- Critical Limb Ischemia: A 6-Year Experience. Peripheral Vascular Surgery Society Winter Meeting, Park City, UT, Jan. 27-29, 2006.
32. Kalbaugh CA, Taylor SM, Jackson MR, Blackhurst DW, Dellinger MB, Gray BH, Langan EM III, Carsten CG III. One Year Prospective Quality of Life Outcomes in Patients Treated With Angioplasty for Symptomatic Peripheral Arterial Disease. Peripheral Vascular Surgery Society Winter Meeting, Park City, UT, Jan. 27-29, 2006.
  33. Jones WT III, Carsten CG III, Langan EM III, Kalbaugh CA, Taylor SM, Cull DL, Snyder BA, Gray BH, Jackson MR, York JW, Youkey JR. A Contemporary Look at the Iliofemoral Bypass for Unilateral Iliac Disease. Southeastern Surgical Congress, Lake Buena Vista, FL, Feb. 18-21, 2006.
  34. Kalbaugh CA, Taylor SM, Halliday M, Daniels G, Cass AL, Blackhurst DW, Cull DL, Langan EM III, Carsten CG III, Jackson MR, York JW, Snyder BA, Youkey JR. Does Obesity Predict Functional Outcome in the Dysvascular Amputee? Southeastern Surgical Congress, Lake Buena Vista, FL, Feb. 18-21, 2006.
  35. Palmer RM, Cull DL, Kalbaugh, Carsten CG III, Snyder BA, Jackson MR, York JW, Langan EM III, Blackhurst DW, Taylor SM. Is Surgical Thrombectomy to Salvage Failed Native Arteriovenous Fistulae Worthwhile? Southeastern Surgical Congress, Lake Buena Vista, FL, Feb. 18-21, 2006.
  36. Scott JD, Cull DL, Kalbaugh CA, Carsten CG III, Blackhurst DW, Taylor SM, Snyder BA, Jackson MR, York JW, Langan EM III. The Mid-Thigh Loop Arteriovenous Graft: Patient Selection, Technique and Results. Southeastern Surgical Congress, Lake Buena Vista, FL, Feb. 18-21, 2006.
  37. Jones WT III, Carsten CG III, Langan EM III, Kalbaugh CA, Hanover TM, Taylor SM, Cull DL, Snyder BA, Gray BH, Jackson MR. A Contemporary Look at the Iliofemoral Bypass for Unilateral Iliac Disease. Society for Clinical Vascular Surgery, Las Vegas, NV, Mar. 8-11, 2006.
  38. Taylor SM, Kalbaugh CA, Blackhurst DW, Trent EA, Cull DL, Langan EM III, Snyder BA, Carsten CG III, York JW, Youkey JR. Does Percutaneous Transluminal Angioplasty for Critical Limb Ischemia Benefit Physiologically Impaired Patients Unsuitable for Open Surgery? Society for Vascular Surgery, Philadelphia, PA, June 1-4, 2006.
  39. Taylor SM, Kalbaugh CA, Blackhurst DW, Trent EA, Cull DL, Langan EM III, Snyder BA, Carsten CG III, York JW, Youkey JR. Does Percutaneous Transluminal Angioplasty for Critical Limb Ischemia Benefit Physiologically Impaired Patients Unsuitable for Open Surgery? Peripheral Vascular Surgery Society Spring Meeting, Philadelphia, PA, June 2-3, 2006.
  40. Taylor SM, Kalbaugh CA, Healy MG, Cass AL, Gray BH, Langan EM III, Cull DL, Carsten CG III, York JW, Snyder BA, Youkey JR. Contemporary Outcomes Justify a More Liberal Use of Revascularization for Vasculogenic Claudication: A Single Center experience of 1000 Consecutively Treated Limbs. Southern Surgical Association, Hot Springs, VA, Dec. 2-5, 2007.
  41. Bronder CM, Cull DL, Kuper SG, Kalbaugh CA, Cass AL, Carsten CG III, York JW, Youkey JR, Taylor SM. The Fistula Elevation Procedure as an Adjunct for AV Fistulae

- Maturation: Experience with 295 Consecutive Cases. Southern Surgical Association, Hot Springs, VA, Dec. 2-5, 2007.
42. Morse BC, Cull DL, Kalbaugh CA, Cass AL, Carsten CG III, Taylor SM. Through-Knee Amputation in Patients with Peripheral Arterial Disease: A Review of 50 Cases. Southern Association for Vascular Surgery, Naples, FL, Jan. 16-19, 2008.
  43. Carsten CG III, Proctor CD Jr., Cull DL, Kendall TW Jr, Cass AL, Taylor SM. The Vascular Access Score: A Tool for Standardizing Arteriovenous Access Placement. Southern Association for Vascular Surgery, Naples, FL, Jan. 16-19, 2008.
  44. Hartley MC, Langan EM III, Cull DL, Taylor SM, Carsten CG III, Blackhurst DW. Evaluation of the Natural History of the Proximal Descending Thoracic Aorta with Age. Southern Association for Vascular Surgery, Naples, FL, Jan. 16-19, 2008.
  45. Cicchillo MS, Carsten CG III, Wright CC, Taylor SM, Davis BR, Traxler BL. Staged Carotid Endarterectomy and Open Heart Surgery: Does High-Risk Cardiac Disease in Patients Scheduled for Open-Heart Surgery Preclude Carotid Endarterectomy. Southeastern Surgical Congress, Birmingham AL, Feb 9-12, 2008.
  46. Cull DL, Carsten CG III, Kalbaugh CA, York JW, Campbell TR, Cass AL, Taylor SM. Reverse J A-V Grafts for Hemodialysis Access: Rationale, Technique, and Outcomes. Southeastern Surgical Congress, Birmingham AL, Feb. 9-12, 2008.
  47. Carsten CG III, Kalbaugh CA, Langan EM III, Cass AL, Cull DL, Snyder BA, York JW, Taylor SM. Contemporary Outcomes of Iliofemoral Bypass Grafting for Unilateral Aortoiliac Occlusive Disease: A 10-Year Experience. Southeastern Surgical Congress, Birmingham AL, Feb. 9-12, 2008.
  48. Carsten CG III. New Age Vascular Imaging. Vascular Disease for the Primary Care Physician, Greenville, SC March 14, 2008.
  49. Eugene M. Langan, III, Charles S. Joels, Corey A. Kalbaugh, David L. Cull, Christopher G. Carsten, III, Spence M. Taylor. The Effects of Increased Vascular Surgical Specialization on General Surgery Trainees, Practicing Surgeons, and the Provision of Vascular Surgical Care. The Southern Surgical Association, West Palm Beach, FL, Nov. 30-Dec. 3, 2008.
  50. Christopher G. Carsten, III, et al. Outcome of the Viabahn Endoprosthesis to Salvage Failed Arteriovenous Accesses. Peripheral Vascular Surgery Society, Steamboat Springs, CO, Jan. 30-Feb. 1, 2009.
  51. Carsten CG III, Langan EM III, Johnson BL, Dunphy K, Taylor SM. Patient Radiation Exposure: Can Duplex Ultrasound Replace Routine CT Scan for EVAR Surveillance. Peripheral Vascular Surgery Society Spring Meeting, Washington, DC, June 6, 2012.
  52. Carsten CG III, Langan EM III, Androes MP, Boster AH, Taylor SM. Is Surveillance of Peripheral Arteries for Aneurysm Development Necessary for Patients with Abdominal Aortic Aneurysms? The Society for Vascular Surgery, National Harbor, MD, June 7-9, 2012.

53. Bordoli SJ, Carsten CG III. Radiation Safety Education in Vascular Surgery Training: An Unmet Requirement. Southern Association for Vascular Surgery, Paradise Island, Bahamas, Jan. 23-26, 2013.
54. LB Traxler MD; BL Johnson MS; D Nichols; P Merchant; CG Carsten MD. Central Lines Versus PICC's: Are Surgeons Abandoning Central Line Placement? Southeastern Surgical Congress, Jacksonville, FL, Feb. 9-12, 2013.
55. David L.Cull, M.D., Eugene M. Langan, III, M.D., Spence M. Taylor, M.D. Christopher G. Carsten, III, M.D., Angie Tong, B.A., Brent Johnson, M.S. The Influence of a Vascular Surgery Hospitalist Program on Physician and Patient Satisfaction, Resident Education, and Resource Utilization. Society for Clinical Vascular Surgery, Miami, FL, March 12-16, 2013.
56. Carsten CG III, Hudgins J, Claudeanos KT, Cull DL. Fistulas in Octogenarians: Is the Juice Worth the Squeeze? Southern Association for Vascular Surgery, Palm Beach, FL, Jan. 15-18, 2014.
57. Carsten CG III, Hudgins J, Claudeanos KT, Cull DL. Fistulas in Octogenarians: Are They Beneficial? Peripheral Vascular Surgery Society, Steamboat Springs, CO, Jan. 30-Feb. 2, 2014.
58. Gucwa AL, Carsten CG III, Cull DL. Description and Outcome s of a Simple Surgical Technique for Treating Arteriovenous Fistula Pseudoaneurysms. Vascular Access Society of the Americas, Dallas, TX, May 2-3, 2014.
59. Walker EJ, Carsten CG III. Atypical Profunda Femoral Artery Pseudoaneurysm. Society for Vascular Ultrasound, Las Vegas, NV, July 16-18, 2015
60. Carsten CG III, Hudgins JA, Keahey GP, Ewing JA, Hale AL, Cull DL. Nonhemodialysis Arteriovenous Fistulas for Permanent Venous Access: Reevaluation of an Old Idea. Southern Association for Vascular Surgery, Cancun, Mexico, Jan. 20-23, 2016.
61. Gandhi SS, Blas JV, Lee S, Eidt JF, Carsten CG III. Nonoperative Management of Grade III Thoracic Aortic Injuries. Southern Association for Vascular Surgery, Cancun, Mexico, Jan. 20-23, 2016.

#### BASIC SCIENCE RESEARCH:

1. Carsten CG, Elmore JR, Carey DJ, Franklin DP, Youkey JR. Use of MAC-1 Antibody to Block Experimentally Induced Abdominal Aortic Aneurysm Formation in Rats. Unpublished Data.