# BRETT C. SHERIDAN, M.D., FACS

Division of Cardiothoracic Surgery
Department of Surgery
University of North Carolina at Chapel Hill
3040 Burnett-Womack Building, CB #7065
Chapel Hill, NC 27599-7065

**Phone:** (919) 966-3381
**Fax:** (919) 966-3475
**E-mail:** sheridan@med.unc.edu

## EDUCATION, TRAINING

Resident, Cardiothoracic Surgery
University of Colorado Health Sciences Center, Denver, Colorado
July 1999-June 2002

Chief Resident, General Surgery
University of Colorado Health Sciences Center, Denver, Colorado
July 1998-June 1999

Resident, General Surgery
University of Colorado Health Sciences Center, Denver, Colorado
July 1993-June 1998

Internship, General Surgery
University of Colorado Health Sciences Center, Denver, Colorado
July 1992-June 1993

M.D., Baylor College of Medicine, Houston, Texas, May 1992

B.S. with Honors, Stanford University, Stanford, California, May 1988

## PROFESSIONAL EXPERIENCE

Associate Professor of Surgery, University of North Carolina at Chapel Hill, Chapel Hill, N.C., Feb. 1, 2009 - present

Director of Mechanical Circulatory Support & Cardiac Transplantation, UNC Hospitals, Chapel Hill, N.C., 2008-present

Director of Adult Cardiac Surgery, UNC Hospitals, 2008-2011

Research Fellow, Cecil G. Sheps Center for Health Services Research, April 2005-March 2015

Assistant Professor of Surgery, University of North Carolina at Chapel Hill, Chapel Hill, N.C., July 2002 - January 2009

United States Air Force Reserve (Medical Corps), January 1995 - December 2002
(Honorably discharged at rank of captain)

**CERTIFICATION**

American Board of Thoracic Surgery, 2003; certified until 2023
American Board of Surgery, 2000 and 2010; certified until 2020
FLEX 1992

**LICENSES**

North Carolina Medical Board
2002-Present (current expiration: 8/17/2014)

California Medical Board
2002-Present (current expiration: 8/31/2015)

Colorado State Board of Medical Examiners
1999-Present (current expiration: 4/30/2015)

Texas State Board of Medical Examiners
1993-Present (current expiration: 2/28/2016)

**HONORS AND AWARDS**

Nominated for 2011 Socrates Award, Thoracic Surgery Residents Association (TSRA); national award honors faculty in recognition of commitment to cardiothoracic surgery resident education and mentorship. Dec. 31, 2010.
Listed in "Guide to America's Top Physicians" (Consumers' Research Council of America), 2004-present
Listed in "Guide to America's Top Surgeons" (Consumers' Research Council of America), 2004-present
Listed in "Who's Who in Medical Sciences Education" (AcademicKeys), 2005-present
Listed in Strathmore's "Who's Who" (Strathmore Directories, Ltd.), 2004-present
Graduation with Departmental Honors, Stanford University - 1988
Stanford Undergraduate Research Award - 1986
National Merit Scholar Award -1984

## PUBLICATIONS

### BOOKS, CHAPTERS

Lent GS, Kumar N. **Sheridan BC**, chief editor. Emergency bedside thoracotomy. eMedicine from WebMD/Medscape Reference. Feb. 8, 2013. Available at: http://emedicine.medscape.com/article/82584-overview

Bowdish M, Ben-Or S, Mill MR, **Sheridan BC**. Coronary artery bypass surgery. IN: Runge MS, Stouffer GA, Patterson C (eds), Netter's Cardiology, 2nd ed. Teterboro, N.J.: Icon Learning Systems (MediMedia USA); 2010, pages 129-133.

Bowdish M, Mill MR and **Sheridan BC**. Cardiac transplantation and mechanical circulatory support devices. IN: Runge MS, Stouffer GA, Patterson C (eds), Netter's Cardiology, 2nd ed. Teterboro, N.J.: Icon Learning Systems (MediMedia USA); 2010, pages 197-205.

Bowdish M, Mill MR and **Sheridan BC**. Surgical treatment of valvular disease. IN: Runge MS, Stouffer GA, Patterson C (eds), Netter's Cardiology, 2nd ed. Teterboro, N.J.: Icon Learning Systems (MediMedia USA); 2010, pages 353-358.

Ben-Or S, Bowdish M, Mill MR, **Sheridan BC**. Congenital coronary anomalies. IN: Runge MS, Stouffer GA, Patterson C (eds), Netter's Cardiology, 2nd ed. Teterboro, N.J.: Icon Learning Systems (MediMedia USA); 2010, pages 481-486.

**Sheridan BC** and Mill MR**.** Coronary artery bypass surgery. IN: Runge MS and Ohman EM (eds.), Netter's Cardiology. Teterboro, N.J.: Icon Learning Systems (MediMedia USA); 2004. p 112-118.

Mill MR and **Sheridan BC.** Cardiac transplantation. IN: Runge MS and Ohman EM (eds.), Netter's Cardiology. Teterboro, N.J.: Icon Learning Systems (MediMedia USA); 2004. p 175-182.

Husain SA, **Sheridan BC** and Mill MR. Congenital coronary anomalies. IN: Runge MS and Ohman EM (eds.), Netter's Cardiology. Teterboro, N.J.: Icon Learning Systems (MediMedia USA); 2004. p 491-496.

**Sheridan BC,** Goldman BS, Colella TJF, Turner S. So You're Having Heart Bypass Surgery: Everything you need to know from diagnosis to recovery. Hoboken, N.J.: John Wiley & Sons; 2003. 164 p.

### ORIGINAL RESEARCH ARTICLES (PEER-REVIEWED)

Alhosaini H, Jensen BC, Chang PP, **Sheridan BC,** Katz JN. A novel link between G6PD deficiency and hemolysis in patients with continuous-flow left ventricular assist devices. J Heart Lung Transplant 2013. (Epub ahead of print, Oct. 25, 2013) PMID: 24290168

Bradford WT, Arora H, **Sheridan BC,** Sileshi B, Kumar PA. A left atrial mass in a middle-aged woman: Just another myxoma? J Cardiothorac Vasc Anesth. 2013 (Aug);27(4):816-8. Epub ahead of print, May 3, 2012. PMID: 22560066

Federspiel JJ, Stearns SC, D'Arcy LP, Geissler KH, Beadles CA, Crespin DJ, Carey TS, Rossi JS, **Sheridan BC**. Resource use trajectories for aged Medicare beneficiaries with complex coronary conditions. Health Serv Research 2013(Apr); 48 (2 Pt 2):753-72. Epub Jan. 24, 2013. PMID 23347002

Federspiel JJ, Stearns SC, Reiter KL, Geissler KH, Triplette MA, D'Arcy LP, **Sheridan BC,** Rossi JS. Disappearing and reappearing differences in drug-eluting stent use by race. J Eval Clin Pract. 2013 (Apr) 19(3):256-62. Epub ahead of print, Dec. 2, 2011. PMID: 22132712

Farkouh ME, Domanski M, Sleeper LA, Siami FS, Dangas G, Mack M, Yang M, Cohen DJ, Rosenberg Y, Solomon SD, Desai AS, Gersh BJ, Magnuson EA, Lansky A, Boineau R, Weinberger J, Ramanathan K, Sousa JE, Rankin J, Bhargava B, Buse J, Hueb W, Smith CR, Muratov V, Bansilal S, King S 3rd, Bertrand M, Fuster V; FREEDOM Trial Investigators (including **Sheridan B**). Strategies for multivessel revascularization in patients with diabetes. N Engl J Med 2012 (Dec); 367(25):2375-84. PMID: 23121323.

Rossi JS, Federspiel JJ, Crespin DJ, Carey TS, **Sheridan BC**, Stearns SC. Stress imaging use and repeat revascularization among Medicare patients with high-risk coronary artery disease. Am J Cardiol 2012 (Nov) 110(9):1270-4. Epub ahead of print, July 21, 2012. PMID: 22819426

Raasch H, Jensen BC, **Sheridan B,** Bowen A, Gehi A, Chung EH, Mounsey JP, Chang P, Katz JN. Epidemiology, management, and outcomes of sustained ventricular arrhythmias after continuous-flow left ventricular assist device implantation. Am Heart J 2012 (Sept); 164:373-8. PMID: 22980304

Federspiel JJ, Stearns SC, **Sheridan BC,** Crespin DJ, D'Arcy LP, Kuritzky JJ, Rossi JS Evaluating the effectiveness of a rapidly-adopted cardiovascular technology with administrative data: The case of drug-eluting stents for acute coronary syndromes. Am Heart J 2012 (Aug); 164(2):207-14. PMID: 22877806

Balfanz G, Arora H, **Sheridan BC,** Katz JN, Kumar PA. Dynamic mitral regurgitation without regional wall motion abnormality. J Cardiothorac Vasc Anesth 2012 (Aug); 26(4):753-755. Epub ahead of print, May 16, 2012. PMID: 22608469

Bonow RO, Maurer G, Lee KL, Holly TA, Binkley PF, Desvigne-Nickens P, Drozdz J, Farsky PS, Feldman AM, Doenst T, Michler RE, Berman DS, Nicolau JC, Pellikka PA, Wrobel K, Alotti, N, Asch FM, Favaloro LE, She L, Velazquez EJ, Jones RH, Panza JA; STICH Trial Investigators (including **Sheridan BC**). Myocardial viability and survival in ischemic left ventricular dysfunction. N Engl J Med 2011 (April 28) 364(17):1617-25. PMID: 21463153

Velazquez EJ, Lee KL Deja MA, Jain A, Sopko G, Marchenko A, Ali IS, Pohost G, Gradinac S, Abraham WT, Yii M, Prabhakaran D, Szwed H, Ferrazzi P, Petrie MC, O'Connor CM,

Panchavinnin P, She L, Bonow RO, Rankin GR, Jones RH, Rouleau JL; STICH Investigators (including **Sheridan BC).** Coronary-artery bypass surgery in patients with left ventricular dysfunction. N Engl J Med 2011 (April 28); 364(17):1607-16. PMID: 21463150

Federspiel JJ, Stearns SC, van Domburg RT, **Sheridan BC,** Lund JL, Serruys PW. Risk-benefit trade-offs in revascularisation choices. EuroIntervention 2011 (Mar) 6(8):936-41. PMID: 21330240; PMCID: PMC3061312

Bennett SK, **Sheridan B,** Meyers MO. Laparoscopic splenectomy despite the presence of a left ventricular assist device. Am Surg 2010 (Nov); 76(11):1306-8. PMID: 21140707

**Sheridan BC,** Stearns SC, Rossi J, D'Arcy LP, Federspiel JJ, Carey TS. Three-year outcomes of multivessel revascularization in very elderly coronary syndrome patients. Ann Thorac Surg 2010 (June); 89(6):1889-94. PMID: 20494044

Campbell RA, Overmyer KA, Selzman CH, **Sheridan BC**, Wolberg AS. Contributions of extravascular and intravascular cells to fibrin network formation, structure and stability. Blood 2009 (Nov);114(23):4886-96. PMID: 19797520

Jones RH, Velazquez EJ, Michler RE, Sopko G, Oh JK, O'Connor CM, Hill JA, Menicanti L, Sadowski Z, Desvigne-Nickens P, Rouleau JL, Lee KL; STICH Hypothesis 2 Investigators (including **Sheridan BC**). Coronary bypass surgery with or without surgical ventricular reconstruction. N Engl J Med 2009 (Apr):360(71): 1705-17. PMID: 19329820

Riesenman PJ, Farber MA, Rich PB, **Sheridan BC**, Mendes RR, Marston WA, Keagy BA. Outcomes of surgical and endovascular treatment of acute traumatic thoracic aortic injury. J Vasc Surg 2007; 46(5): 934-940. PMID:17980280

Selzman CH, **Sheridan BC.** Off-pump insertion of continuous flow left ventricular assist devices. J Cardiac Surg 2007; 22(4):320-322. PMID:17661774

Selzman CH**,** Chang PP, Vernon-Platt T, Bowen A, Kowalczyk S, **Sheridan BC**. Use of the Jarvik 2000 continuous flow left ventricular assist device for acute myocardial infarction and cardiogenic shock. J Heart Lung Transplant 2007; 26(7): 756-758. PMID: 17613411

Pathak A, Zhao R, Monroe DM, Roberts HR, **Sheridan BC**, Selzman CH, Stouffer GA. Thrombin generation in vascular tissue. J Thromb Haemost 2006; 4(1):60-67. PMID: 16409451

Tsai BM, Turrentine MW, **Sheridan BC**, Wang M, Fiore AC, Brown JW, Meldrum DR. Differential effects of phosphodiesterase-5 inhibitors on hypoxic pulmonary vasoconstriction and pulmonary artery cytokine expression. Ann Thorac Surg 2006; 81(1):272-278. PMID: 16368379

Ketner M, Lucas C, Mill M, **Sheridan B**, Lucas W. Energetics and hemodynamic changes of normal and various right heart bypass (Fontan) circulations in lambs under varying respiration parameters. Conf Proc IEEE Eng Med Biol Soc 2004; 5: 3785-3788.

Grazia TJ, Hodges TN, Cleveland JC, **Sheridan BC**, Zamora MR. Lobar torsion complicating bilateral lung transplantation. J Heart Lung Transplant 2003; 22(1):102-106. PMID: 12531421

Pulido EJ, Shames BD, Fullerton DA, **Sheridan BC**, Selzman CH, Gamboni-Robertson F, Bensard DD, McIntyre RC Jr. Differential inducible nitric oxide synthase expression in systemic and pulmonary vessels after endotoxin. Am J Physiol Regul Integr Comp Physiol 2000; 278: R1232-R1239. PMID:10801292

Kinsella JP, Parker TA, Galan H, **Sheridan BC**, Abman SH. Independent and combined effects of inhaled nitric oxide, liquid perfluorochemical, and high- frequency oscillatory ventilation in premature lambs with respiratory distress syndrome. Am J Respir Crit Care Med 1999; 159: 1220-1227. PMID:10194169

**Sheridan BC**, McIntyre RC, Meldrum DR, Fullerton DA. L-arginine treatment attenuates endothelial dysfunction in endotoxin-induced lung injury. Surgery 125:33-40, 1999. PMID: 9889795

**Sheridan BC**, Dinarello CA, Meldrum DR, Fullerton DA, Selzman CH, McIntyre RC. Interleukin-11 attenuates pulmonary inflammation and vasomotor dysfunction in endotoxin-induced lung injury. Am J Physiol 1999; 277: L861-L867. PMID:10564168

Meldrum DR, Partrick D, **Sheridan BC**, Moore EE, Harken AH. Kinetics of Interleukin-11 release following cardiopulmonary bypass. J Thorac Cardiovasc Surg 1999;118: 193-195. PMID: 10384204

Shames BD, Pulido EJ, **Sheridan BC**, Poole AW, Bensard DD, Harken AH, McIntyre RC. L-arginine inhibits LPS-induced CINC protein production and lung neutrophil accumulation. Surg Forum 1999; 50: 228-229.

Pulido EJ, Shames BD, Dinarello CA, Pennica D, **Sheridan BC**, Bensard DD, McIntyre RC. GP 130-dependent signaling decreases endotoxin-induced pulmonary TNF-alpha and acute lung injury. Surg Forum 1999; 50: 215-217.

**Sheridan BC**, McIntyre RC, Meldrum DR, Fullerton DA. L-arginine prevents lung neutrophil accumulation and preserves pulmonary endothelial function after endotoxin. Am J Physiol 1998;274: L337-42. PMID: 9530168

Meldrum DR, McIntyre RC, **Sheridan BC**, Cleveland JC, Fullerton DA, Harken AH. L-arginine decreases alveolar macrophage proinflammatory monokine production during acute lung injury. J Trauma 1998; 43: 888-893. PMID: 9420100

**Sheridan BC**, Hodges TN, Zamora MR, Lynch DL, Brown JM, Campbell DN. Acute and chronic effects of bilateral lung transplantation without cardiopulmonary bypass on the first transplanted lung. Ann Thoracic Surg 1998; 66: 1755-8. PMID: 9875784

Meldrum DR, Meng X, **Sheridan BC**, McIntyre RC, Banerjee A, Harken AH. Tissue specific PKC isoforms differentially mediate macrophage TNF alpha and IL-1beta production. Shock 1998; 9:256-60. PMID: 9565253

McIntyre RC, Pulido EJ, **Sheridan BC**, Meldrum DR, Bensard DD, Fullerton DA. Endotoxin differentially impairs receptor-mediated relaxation in rat isolated pulmonary and thoracic aortic vessels. J Trauma 1998; 45: 862-7. PMID: 9820693

McIntyre RC, Jr, **Sheridan B,** Agrafojo J, and Fullerton DA. Selective inhibition of receptor-mediated pulmonary vasorelaxation in endotoxin-induced acute lung injury. Shock 1997; 7: 36-41. PMID: 8989834

McIntyre RC, Jr, **Sheridan BC,** Agrafojo J, and Fullerton DA. Endotoxin differentially impairs cyclic guanosine monophosphate-mediated relaxation in the pulmonary and systemic circulations. Crit Care Med 1997; 25: 318-323. PMID: 9034271

Kinsella JP, Parker TA, Galan H, **Sheridan BC,** Halbower AC, Abman SH. Effects of inhaled nitric oxide on pulmonary edema and lung neutrophil accumulation in severe experimental hyaline membrane disease. J Ped Res 1997; 41: 457-463. PMID: 9098845

Meldrum DR, Cleveland JC, Meng X, **Sheridan BC**, Banerjee A, Harken AH. Hemorrhage induces acute cardioadaptation to ischemia-reperfusion by an alpha1-adrenoceptor-mediated, protein synthesis-independent mechanism. Am J Physiol 1997; 272: R718-725. PMID: 9124500

**Sheridan BC**, McIntyre RC, Meldrum DR, Fullerton DA. Pentoxyfilline attenuates pulmonary vasomotor injury. J Surg Res 1997; 71: 150-154. PMID: 9299283

**Sheridan BC**, McIntyre RC, Meldrum DR, Fullerton DA. Phosphodiesterase inhibition overcomes pulmonary vasomotor dysfunction in acute lung injury. J Surg Res 1997; 71: 145-149. PMID: 9299282

Meldrum DR, Cleveland JC, **Sheridan BC**, Banerjee A, Harken AH. Protein Kinase C isoform diversity in preconditioning. J Surg Res 1997; 69: 183-187. PMID: 9202667

Meldrum DR, Cleveland JC, Meng X, **Sheridan BC**, Banerjee A, Harken AH. Alpha-adrenergic activation of NF Kappa mediates hemorrhage-induced cardioadaptation to ischemia-reperfusion injury. J Surg Res 1997; 69: 268-276. PMID: 9224392

Meng X, Ao L, Brown JM, Meldrum DR, **Sheridan BC**, Banerjee A, Harken AH. LPS induces delayed cardiac protection against ischemia independent of myocardial and circulating TNF. Am J Physiol 1997; 273: H1894-H1902. PMID: 9362258

**Sheridan BC**, McIntyre RC, Meldrum DR, Fullerton DA. KATP channels contribute to beat- and adenosine receptor -mediated pulmonary vasorelaxation. Am J Physiol 273: L950-L956, 1997. PMID: 9374721

**Sheridan BC**, McIntyre RC, Meldrum DR, Fullerton DA. Endotoxin stuns cGMP-mediated pulmonary vasorelaxation. Shock 1996; 8: 207-212. PMID: 9377168

**Sheridan BC**, Fullerton DA, Meldrum DR, Harken AH, McIntyre RC. Endotoxin-induced vascular collapse derives from $K_{ATP}$ channel activation with resultant impairment of alpha$_1$-adrenergic signaling. Surg Forum 1997; 48: 89-91.

Meldrum DR, Dinarello CA, Cleveland JC, **Sheridan BC** , Harken AH. P38 MAP kinase mediates myocardial ischemia-reperfusion injury: Improved post-ischemic recovery with SB 203580 (Cytokine suppressor anti-inflammatory drug; CSAID) Surg Forum 1997; 48: 335-338.

Cain BS, Meldrum DR, Selzman CH, Cleveland JC, Meng X, **Sheridan BC**, Banerjee A, Harken AH. Surgical implications of vascular endothelial physiology. Surgery 1997; 122: 1-11. PMID: 9308608

Meldrum DR, Shenkar R, **Sheridan BC**, Cain BS, Abraham E, Harken AH. Hemorrhage activated myocardial NFkB and increases tumor necrosis factor in the heart. J Mol Cell Cardiol 1997; 29: 2849-2854. PMID: 9344778

**Sheridan BC,** McIntyre RC, Jr, Meldrum DR, Cleveland JC, Jr, Agrafojo JA, Eisenach JH, Harken AH, Fullerton DA. Antibody-mediated neutrophil depletion preserves pulmonary vasomotor function. J Surg Res 1996; 62: 74-78. PMID: 8606514

**Sheridan BC**, McIntyre RC, Jr, Meldrum, DR, Cleveland JC, Jr, Agrafojo JA, Banerjee A, Harken AH, Fullerton DA. Microtubules regulate pulmonary vascular smooth muscle contraction. J Surg Res 1996; 62: 284-287. PMID: 8632653

Meldrum DR, **Sheridan BC**, Cleveland JC, Fullerton DA, Banerjee A, Harken AH. Neutrophils are required for endotoxin-induced myocardial cross-tolerance to ischemia-reperfusion injury. Arch Surg 1996; 131: 1203-1208. PMID: 8911261

Fullerton DA, Eisenach JH, Friese RS, Agrafojo J, **Sheridan BC**, McIntyre RC, Jr. Impairment of endothelial-dependent pulmonary vasorelaxation after mesenteric ischemia/reperfusion. Surgery 1996; 120: 879-884. PMID: 8909525

**Sheridan BC**, McIntyre RC, Jr, Agrafojo JA, Meldrum DR, Meng X, Fullerton DA. Neutrophil-depletion attenuates dysfunction of cGMP-mediated pulmonary vasorelaxation in endotoxin-induced lung injury. Am J Physiol 1996; 271: L820-828. PMID: 8944726

Cleveland JC, Jr, Meldrum DR, Rowland RT, **Sheridan BC**, Banerjee A, Harken AH. The obligate role of protein kinase C in mediating clinically accessible cardiac preconditioning. Surgery 1996; 120: 345-353. PMID: 8751603

**Sheridan BC**, McIntyre RC, Jr, Meldrum DR, Cleveland JC, Agrafojo JA, Eisenach JH, Fullerton DA. Vinblastine attenuates endotoxin-induced impairment of cGMP-mediated pulmonary vasorelaxation. Shock 1996; 6: 35-38. PMID: 8828082

Fullerton DA, Hahn AR, Agrafojo J, **Sheridan BC**, McIntyre RC, Jr. Magnesium is essential in mechanisms of pulmonary vasomotor control. J Surg Res 1996; 63: 93-97. PMID: 8661179

Meldrum DR, Cleveland JC, **Sheridan BC**, Rowland RT, Banerjee A, Harken AH. Cardiac preconditioning with calcium: Clinically accessible myocardial protection. J Thorac Cardiovasc Surg 1996; 112 (3), 778-786. PMID: 8800168

Meldrum DR, Cleveland JC, Mitchell MB, **Sheridan BC**, Gamboni-Robertson F, Harken AH, Banerjee A: Protein kinase C mediates Ca2(+) induced cardioadaptation to ischemia-reperfusion injury. Am J Physiol 1996; 271: R1718-1726. PMID: 8853396

Fullerton DA, Eisenach JH, McIntyre RC, Jr, Friese RS, **Sheridan BC**, Gates BR, Agrafojo J, Banerjee A, Harken AH. Inhaled nitric oxide prevents pulmonary endothelial dysfunction after mesenteric ischemia-reperfusion. Am J Physiol 1996; 271: L326-L331. PMID: 8770072

Cleveland JC, Jr, Wollmering MM, Meldrum DR, Rowland RT, Rehring TF, **Sheridan BC**, Harken AH, Banerjee A. Ischemic preconditioning in human and rat ventricle. Am J Physiol 1996; 271: H1786-1794. PMID: 8945892

Meldrum DR, Cleveland JC, **Sheridan BC**, Banerjee A, Harken AH. The alpha and beta isoforms of protein kinase C mediates the cardiac contractile response to exogenous calcium. Surg Forum 1996; 47: 300-303**.**

Fullerton DA, **Sheridan BC**, Meldrum, DR, Cleveland JC, Jr, Agrafojo JA, McIntyre RC, Jr. Neutrophils mediate vascular smooth muscle dysfunction in acute lung injury. Surg Forum 1996; 47: 328-330**.**

Cleveland JC, Jr, Meldrum DR, Rowland RT, **Sheridan BC**, Banerjee A, Butler K, Harken AH. Adenosine preconditioning of human myocardium is mediated through $K_{ATP}$ channel activation. Surg Forum 1996; 47: 209-211.

**Sheridan BC**, McIntyre RC, Moore EE, Meldrum DR, Agrafojo J, Fullerton DA. Neutrophils mediate pulmonary vasomotor dysfunction in endotoxin-induced acute lung injury. J Trauma 1996; 42: 391-397. PMID: 9095105

Meldrum DR, Cleveland JC, **Sheridan BC**, RT Rowland, Banerjee A, Harken AH. Differential effects of adenosine preconditioning on the post-ischemic rat myocardium. J Surg Res 1996; 65: 155-164. PMID: 8903463

Hallock GG, Anous MM, **Sheridan BC**. The surgical anatomy of the principal nutrient vessel of the tibia. Plastic and Reconstruct Surg 1993; 92(1):49-54. PMID:8516406

Vickery RG, **Sheridan BC**, Segal IS, Maze M. Anesthetic and hemodynamic effects of the stereoisomers of medetomidine, an alpha 2-adrenergic agonist, in halothane-anesthetized dogs. Anes Analgesia 1988; 67(7):611-615. PMID: 2898219

## OTHER PEER-REVIEWED ARTICLES

**Sheridan BC.** Invited commentary on: Improved outcome of surgical pulmonary embolectomy by aggressive intervention for critically ill patients (Fukuda et al). Ann Thorac Surg 2011 (Mar); 9(3): 732-33.

Stearns S, Federspiel J, D'Arcy L, Rossi J, Sheridan B. Accounting for heterogeneity in treatment selection: the case of revascularization. American Society of Health Economics (ASHEcon) paper. June 1, 2010. Available at: http://ssrn.com/abstract=1880254

**Sheridan BC**, Stearns SC, Massing MW, Stouffer GA, D'Arcy LP, Carey TS. Percutaneous coronary intervention or coronary artery bypass grafting: Intervention in older persons with Acute Coronary Syndrome – Part II. Clin Geriatrics 2008 (Nov); 16(11):40-46. Included CME learning objectives and questions.

**Sheridan BC**, Stearns SC, Massing MW, Stouffer GA, D'Arcy LP, Carey TS. Percutaneous coronary intervention or coronary artery bypass grafting: Intervention in older persons with Acute Coronary Syndrome – Part I: Clin Geriatrics 2008 (Oct);16(10):39-44. Included CME learning objectives and questions. PMC2856130

Selzman CH, Bhati RS, **Sheridan BC,** Stansfield WE, Mill MR. Surgical therapy for heart failure. (Review) J Am Coll Surg 2006; 203(2):226-239. PMID: 16864035

Bhati RS, **Sheridan BC,** Mill MR, Selzman CH. Heart transplantation for progressive cardiomyopathy as a manifestation of MELAS syndrome. (Review) J Heart Lung Trans 2005; 24: 2286-2289. PMID:16364883

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Meldrum DR, Cleveland JC, **Sheridan BC**, Rowland RT, Banerjee A, Harken AH: Cardiac surgical implications of calcium dyshomeostasis in the heart. (Review) Ann Thorac Surg 1996; 61: 1273-1280.

## PUBLISHED ABSTRACTS

Alhosaini H, Katz JN, Jensen BC, Stansfield W, **Sheridan BC**, Chang PP. A novel link between G6PD deficiency and hemolysis events in patients supported with continuous-flow left ventricular assist devices. J Heart Lung Transplant 2013; 32(4S):S38. (Abstract – presented at International Society for Heart and Lung Transplantation, April 25, 2013, Montréal.)

Sell KA, **Sheridan BC**, Kiser AC, Bowen A, Katz JN, Stansfield WE. Heartmate II inflow cannula position on chest x-ray predicts inotrope dependence. J Heart Lung Transplant 2013;32(4S):S176. (Poster presentation at International Society for Heart and Lung Transplantation, April 24, 2013, Montréal.)

Federspiel JJ, Stearns SC, **Sheridan BC**, Crespin DJ, D'Arcy LP, Kuritzky JJ, Rossi JS. Abstract 10200: Drug-eluting stents versus bare metal stents for Medicare beneficiaries with acute coronary syndromes: Instrumental variables compared to propensity scores. Circulation 2010; 122: A10200.

Rajamannan NM, Caira FC, Stock SR, Subramaniam M, Gleason T, McGee E, **Sheridan B**, Selzman C, Bonow RO, Rahimtoola SH, McCarthy PM, Spelsberg TC. Human degenerative valve disease is associated with upregulation of Lrp5 receptor mediated bone formation. (American College of Cardiology, Atlanta, Ga., March 14, 2006.) J Am Coll Cardiol 2006; 147(4) (Supp. 1): 284A.

Kinsella JP, Parker TA, Galan H, **Sheridan BC**, Abman SH. Independent and combined effects of inhaled nitric oxide, liquid perfluorochemical, and high-frequency oscillatory ventilation in premature lambs with respiratory distress syndrome. Chest 1999; 116(1 Suppl):15S-16S.

**SUBMITTED FOR PUBLICATION**

Sell KA, **Sheridan BC,** Kiser AC, Bowen AD, Katz JN, Stansfield WE**.** HeartMate II inflow cannula position on chest X-ray predicts inotrope dependence and is associated with major complications. J Heart Lung Transplant 2014. (Submitted Jan. 6, 2014; 19 pages)

## REFEREED UNPUBLISHED ABSTRACTS

Dean DA, Ewald GA, Tatooles A, **Sheridan BC**, Brewer RJ, Caldeira C, Kallel F, Farrar DJ, Akhter SA. Reduction in driveline infection rates: Results from the HeartMate II Multicenter Silicone-Skin-Interface (SSI) Registry. (Abstract – oral presentation) International Society for Heart and Lung Transplantation, 34th Annual Meeting and Scientific Sessions, April 10-13, 2014, San Diego, CA.

Akhter SA, Ewald GA, Walsh MN, **Sheridan BC,** Kallel F, Farrar DJ, Dean DA. Preliminary driveline infection results from the multicenter Silicone-Skin-Interface (SSI) Registry. (Abstract – oral presentation) ASAIO conference, June 14, 2013, Chicago.

Raasch H, Jensen BC, **Sheridan B,** Bowen A, Gehi A, Chung EH, Mounsey JP, Chang P, Katz JN. Ventricular assist devices do not treat ventricular arrhythmias: Significant morbidity persists after implantation. (Poster presentation) American Heart Association Scientific Sessions, Nov. 15, 2011 (#13001/5079), Orlando, FL.

Stearns SC, Federspiel JJ, **Sheridan BC**, Rossi JS. Evaluating treatments with heterogeneous effects and endogenous selection: Effects of cardiologist follow-up for Medicare beneficiaries with myocardial infarction. International Health Economics Association, July 13, 2011, Toronto.

Federspiel JJ, Stearns SC, **Sheridan BC,** Crespin DJ, D'Arcy LP, Kuritzky JJ, Rossi JS. Drug-Eluting Stents versus Bare Metal Stents for Medicare Beneficiaries with Acute Coronary Syndromes: Instrumental Variables Compared to Propensity Scores. American Heart Association Scientific Sessions, Nov. 17, 2010, Chicago, Ill. (The abstract received the top score in the Quality of Care and Outcomes Research Council's division of the AHA's Scientific Sessions.) http://circ.ahajournals.org/cgi/content/meeting_abstract/122/21_MeetingAbstracts/A1020

Healy A, **Sheridan BC,** Patiel A, Bull D, Stehlik J, Selzman CH. Safety and efficacy of off-cardiopulmonary bypass placement of the Jarvik 2000 Left Ventricular Assist Device for bridge to transplantation. Abstract submitted for Western Thoracic Surgical Association meeting, June 23-26, 2010, Ojai, Calif.

Stearns SC, Federspiel JJ, Crespin D, D'Arcy L, Rossi J, Sheridan B. Accounting for heterogeneity in treatment selection: The case of revascularization. American Society of Health Economists (ASHE), June 21,2010, Ithaca, NY.

Federspiel J, Stearns SC, D'Arcy LP, Reiter KL, **Sheridan BC**, Rossi JS. Diminishing racial disparities in the utilization of drug-eluting stents among Medicare beneficiaries: 2003-2004. Abstract (Poster). American College of Cardiology Annual Scientific Session, March 14-16, 2010, Atlanta, Ga.

Federspiel J, Stearns SC, D'Arcy LP, Reiter KL, **Sheridan BC,** Rossi JS. The changing profile of Medicare beneficiaries receiving drug-eluting stents after myocardial infarction. Abstract (Poster). I2 Summit, American College of Cardiology, March 14-16, 2010, Atlanta, Ga.

Rossi J, D'Arcy LP, Federspiel J, Carey TS, Stearns SC, **Sheridan BC**. Drug-eluting stents are associated with decreased mortality among Medicare beneficiaries admitting with acute

coronary syndromes. Abstract (presentation). American College of Cardiology Annual Scientific Session, March 14-16, 2010, Atlanta, Ga.

**Sheridan B**, Stearns S, Carey T, Massing M, D'Arcy L, Rossi J. Three year outcomes of coronary artery bypass grafting and percutaneous intervention with stents in 14,580 very elderly acute coronary syndrome patients. Southern Thoracic Surgical Association, Marco Island, FL, Nov. 5, 2009.

Selzman CH, **Sheridan BC**, Chang P, Bowen A, Vernon-Platt T, Patel, AN, Bull DA. Safety and efficacy of off-pump placement of the Jarvik 2000 Left Ventricular Assist Device for bridge to transplantation. Western Thoracic Surgical Association, Banff, Alberta, Canada, June 24-27, 2009.

Stearns S, Norton E, **Sheridan B.** Using small area variations in procedure rates to identify effects of revascularization among the elderly. American Economic Association, San Francisco, Jan. 4, 2009. (Also presented at Healthy Policy Seminar, University of Chicago, May 28, 2009)

Bennett SK, **Sheridan B,** Meyers MO. Hand-assisted laparoscopic splenectomy despite the presence of a left ventricular assist device. Southeastern Surgical Congress, Savannah, Ga., Feb 11-13, 2007.

Lucas CN, Ketner ME, Steele B, Mill MR, **Sheridan B,** Lucas WJ, Pekkan K, Yoganathan AP. Importance of respiration in Fontan circulations: A study of time delays. (Poster presentation.) Biomedical Engineering Society, Chicago, Illinois, Oct. 14, 2006.

Ketner ME, Lucas CH, Mill MR, **Sheridan B,** Lucas WJ, Yoganathan AP, Steele B. In-vivo hemodynamic analysis of Fontan circulations in lambs under varying ventilation parameters. (Poster presentation.) Biomedical Engineering Society, Chicago, Illinois, Oct. 14, 2006.

Lucas C, Ketner M, Steele B, Mill MR, **Sheridan B**, Lucas WJ, Pekkan K, Yoganathan A. Importance of respiration and graft compliance in Fontan circulations: Experimental and computational studies. 5th World Congress of Biomechanics, Munich, Germany, Aug. 3, 2006.

Ketner ME, Lucas CN, **Sheridan B,** Mill MR, Lucas WJ. Respiration influences and time offsets in normal and Fontan circulations in lambs. (Poster presentation.) Biomedical Engineering Society. Oct. 1, 2005, Baltimore, Md.

Lucas CN, Ketner M, Steele B, Mill MR, **Sheridan B,** Lucas WJ, Pekkan K, Yoganathan AP. Toward an understanding of the effects of graft compliance in Fontan repairs. (Platform presentation.) Biomedical Engineering Society. Sept. 30, 2005, Baltimore, Md.

Tsai BM, Turrentine MW, **Sheridan BC**, Wang M, Fiore AC, Brown JW, Meldrum DR, Ketner ME. Cialis™ causes pulmonary artery vasorelaxation and attenuates catecholamine-induced pulmonary vasoconstriction: a novel long-acting oral alternative to milrinone. Southern Thoracic Surgical Association, Nov. 4-6, 2004, Cancun, Mexico.

Ketner ME, Lucas CN, Mill MR, **Sheridan B**, Lucas WJ, Yoganathan AP. Energy, hemodynamics, and respiration effects in lambs with various Fontan circulations. (Platform presentation.) Biomedical Engineering Society, Oct. 15, 2004, Philadelphia, Pa.

Steele BN, Ketner ME, Sundaresearan K, Lucas WJ, **Sheridan B**, Yoganathan AP, Lucas CN. Energy losses due to graft compliance under steady and pulsatile flow in the extracardiac TCPC. (Platform presentation.) Biomedical Engineering Society meeting, Oct. 15, 2004, Philadelphia, Pa.

## TEACHING ACTIVITIES

### Lectures

Heart transplant vs. machine: The evolution of competing strategies for end stage heart failure. Transplant Educational Conference Series (TECS Conference), UNC Division of Abdominal Transplant, UNC Department of Surgery, Chapel Hill, NC, Oct. 10, 2012.

How to choose a surgical subspecialty/cardiac surgery. Surgical Interest Group (medical students), UNC School of Medicine, Chapel Hill, NC, Sept. 19, 2012.

Coronary sinus injuries. Tricks of the Trade lecture, Division of Cardiothoracic Surgery conference, UNC School of Medicine, Aug. 6, 2009.

Heart disease. MS I Lecture, UNC School of Medicine, Chapel Hill, NC, Nov. 6, 2008.

Leadership when lives are on the line. Carolina Leadership Academy (UNC athletes), UNC Hospitals, Chapel Hill, NC, Oct. 13, 2008.

Surgical aspects of cardiac transplantation. MSII Cardiovascular Block Lecture, UNC School of Medicine, Chapel Hill, NC, Sept. 25, 2008.

Chest pain and shortness of breath. MS III Lecture Series, 2006-present (most recent lectures: 7/23/2013, 9/25/2012, 5/22/2012, 3/13/2012, 1/17/2012, 9/21/11, 3/14/11).

Medical student tutorials: 2005-06 (Blocks 6, 5, 4) and 2006-07 (Blocks 2, 1) and 2007-08 (Block 3)

Clinical correlation of cardiac anatomy. Lecture to first-year medical students, UNC School of Medicine, Chapel Hill, NC, Nov. 2, 2005; Nov. 1, 2007.

Interventions in acute myocardial infarctions: coronary artery bypass graft. Lecture to first-year medical students in Clinical Applications course, UNC School of Medicine, Chapel Hill, NC, Nov. 8, 2005.

Repetitive mentor for General Surgery elective for 3rd-year medical students

### Grand Rounds

Stent versus CABG in patients with diabetes mellitus (Panel with Rick Stouffer, MD, and John Buse, MD) UNC Department of Medicine Grand Rounds, Chapel Hill, NC, May 30, 2013.

Left ventricular assist devices – where is it going? Grand Rounds, UNC Dept. of Surgery, Chapel Hill, N.C. August 17, 2011.

Graying of America and mitral valve disease. Grand Rounds, UNC Dept. of Surgery, Chapel Hill, N.C. May 5, 2010.

Comparative efficacy research: Best mechanisms for myocardial revascularization in the elderly. Grand Rounds, UNC Dept. of Surgery, Chapel Hill, N.C., Sept. 23, 2009.

The role of technology on heart failure: LVAD therapy. Cardiovascular Grand Rounds, Forsyth Medical Center, Winston-Salem, N.C., Sept. 4, 2008.

Taking the mystery out of aortic dissection. Cardiovascular Grand Rounds, UNC Division of Cardiology, Chapel Hill, N.C., Oct. 9, 2007

Surgical approach to aortic dissection. UNC Medicine Grand Rounds, Chapel Hill, N.C. April 12, 2007.

CABG versus PCIS. UNC Heart Center Grand Rounds, Chapel Hill, NC, May 17, 2006.

Congestive heart failure: A medical and surgical disease. Surgery Grand Rounds, UNC Hospitals, Chapel Hill, NC, August 3, 2005.

Beating atrial fibrillation. Family Medicine Grand Rounds, UNC Hospitals, Chapel Hill, NC, May 2, 2005.

Heart failure 2010: Surgical strategies (part of a panel on how treatment for heart failure may change/improve). Multidisciplinary Grand Rounds (Internal Medicine), UNC Hospitals, Chapel Hill, N.C., January 6, 2005.

Atrial fibrillation: Re-emergence of a surgical approach. Surgery Grand Rounds, UNC Hospitals, Chapel Hill, N.C., August 18, 2004.

The evolution of myocardial revascularization. Surgery Grand Rounds, UNC Hospitals, Chapel Hill, N.C., June 25, 2003.

**Continuing Education Lectures**

**Inside UNC:**

Left ventricular assist device therapy. NC Chapter, International Transplant Nurses Society, 10th Annual Symposium. Friday Center, Chapel Hill, NC, June 7, 2013.

How to diagnose and manage the post-operative patient with impaired cardiac output. UNC Cardiovascular Nursing staff, UNC Hospitals, Chapel Hill, NC, Sept. 19, 2012.

Age, fragility and cardiac surgery. When is it time to say no? North Carolina Cardiovascular Update, Friday Center, Chapel Hill, NC, Sept. 15, 2012.

Case review. North Carolina Cardiovascular Update, Friday Center, Chapel Hill, NC, Sept. 15, 2012.

Panel discussion. North Carolina Cardiovascular Update, Friday Center, Chapel Hill, NC, Sept. 15, 2012.

Ventricular assist devices. 9th Annual The Beat Goes On: Locally, Nationally & Internationally. UNC Hospitals Nursing Professional Development, Practice and Research, Friday Center, Chapel Hill, NC, Feb. 28, 2012.

Will left ventricular assist devices replace heart transplantation? North Carolina Cardiovascular Update 2011, UNC School of Medicine, Friday Center, Chapel Hill, NC, Sept. 23, 2011.

Case review. North Carolina Cardiovascular Update 2011, UNC School of Medicine, Friday Center, Chapel Hill, NC, Sept. 23, 2011.

The role of surgery in the treatment of mitral valve disease. North Carolina Cardiovascular Update 2010, UNC School of Medicine, Friday Center, Chapel Hill, NC, Sept. 18, 2010.

Panel Discussion. North Carolina Cardiovascular Update 2010, UNC School of Medicine, Friday Center, Chapel Hill, NC, Sept. 18, 2010.

Case Review. North Carolina Cardiovascular Update 2010, UNC School of Medicine, Friday Center, Chapel Hill, NC, Sept. 18, 2010.

Mitral valve disease and the elderly. Internal Medicine Conference, Department of Medicine, UNC School of Medicine, Friday Center, Chapel Hill, NC, April 9, 2010.

Case Review. North Carolina Cardiovascular Update 2009, UNC School of Medicine, Friday Center, Chapel Hill, NC, Sept. 26, 2009.

Valve Surgery in the Elderly. North Carolina Cardiovascular Update 2009, UNC School of Medicine, Friday Center, Chapel Hill, NC, Sept. 25, 2009.

Panel discussion. North Carolina Cardiovascular Update 2009, UNC School of Medicine, Friday Center, Chapel Hill, NC, Sept. 25, 2009.

Heart Failure/ Left Ventricular Assist Devices. North Carolina Cardiovascular Update, UNC School of Medicine, Friday Center, Chapel Hill, NC, September 27, 2008.

Case review. North Carolina Cardiovascular Update, UNC School of Medicine, Friday Center, Chapel Hill, NC, September 27, 2008.

Surgical treatment of heart failure. CV Update: Heart Failure Management, UNC School of Nursing Continuing Education, Friday Center, Chapel Hill, NC, Nov. 8, 2007.

Cardiovascular case review – panel discussion. 2007 North Carolina Cardiovascular Update (UNC School of Medicine), Chapel Hill, N.C., Sept. 29, 2007

Is bypass surgery or multi-vessel PCI the best treatment for patients with severe coronary artery disease – has anything changed in the last year? (Debate with Mauricio Cohen, MD, interventional cardiologist) 2007 North Carolina Cardiovascular Update (UNC School of Medicine), Chapel Hill, N.C., Sept. 28, 2007

CABG vs. PCIS: Evidence-based treatment of multi-vessel coronary disease. 4th Annual UNC Heart Center Conference. (The Beat Goes On: Roads Less Traveled in Cardiovascular Management). UNC Hospitals Nursing Practice, Education and Research. Chapel Hill, N.C. Feb. 27, 2007.

The best treatment for multi-vessel coronary artery disease – bypass surgery versus multi-vessel stenting. North Carolina Cardiovascular Update, Chapel Hill, N.C. Sept. 16, 2006.

Panel discussion. North Carolina Cardiovascular Update, Chapel Hill, N.C. Sept. 16, 2006.

Improved long term survival with surgical myocardial revascularization. UNC Cardiothoracic surgical conference, Chapel Hill, N.C. July 14, 2006.

Destination therapy: Where we've been, where we're going. 3rd Annual UNC Heart Center Conference (The Beat Goes On: Roads Less Traveled in Cardiovascular Management). Chapel Hill, NC, Feb. 28, 2006.

Cardiovascular surgery in 2005 – where do we stand? North Carolina Cardiovascular Update, UNC School of Medicine, Friday Center for Continuing Education, Chapel Hill, NC, Sept. 10, 2005.

Beating atrial fibrillation. UNC Cardiac Rehabilitation Center, Chapel Hill, N.C., November 10, 2004

**Outside UNC:**

LVADs and destination therapy: Where is it going? North Carolina Society of Perfusionists, 2013 Educational Seminar, Chapel Hill, NC. Oct. 5, 2013.

ECMO from a surgical and heart failure/critical care perspective. Cardiovascular Symposium: Balancing outcomes in a changing health care environment. New Hanover Regional Medical Center, Wilmington, NC, Sept. 27, 2013.

Ventricular assist devices: Current surgical perspective. Heart failure management 2011: established therapy and new frontiers. School of Medicine (Division of Cardiology) and Schools of Nursing and Pharmacy, University of North Carolina at Chapel Hill. Amelia Island, FL, July 22, 2011.

Which surgical approach to heart failure, which patient when? (Panel discussion) Heart failure management 2011: established therapy and new frontiers. School of Medicine (Division of Cardiology) and Schools of Nursing and Pharmacy, University of North Carolina at Chapel Hill. Amelia Island, FL, July 22, 2011.

Minimally invasive mitral valve repair. North Carolina Society of Perfusionists, 2010 Annual Education Seminar. Durham, NC, Sept. 19, 2010.

Destination therapy: The argument for cardiac assist devices in end-stage CHF patients. Cardiovascular Disease Symposium 2010: Health Care in Evolution: Opportunities and

Challenges for the Cardiovascular Patient. WakeMed Heart Failure Program, Raleigh, NC, Feb. 27, 2010.

Ventricular assist devices. Chapel Hill Family Medicine, Chapel Hill, NC. Jan. 15, 2010.

Three-year outcomes of coronary artery bypass grafting and percutaneous intervention with stents in very elderly acute coronary syndrome patients. Southern Thoracic Surgical Association, Marco Island, Fla. Nov. 5, 2009.

Which device, which patient (panel discussion). Heart Failure Management 2009, UNC Schools of Medicine, Nursing and Pharmacy, Amelia Island, Fla., July 17, 2009.

Ventricular assist devices: Critical aspects of clinical application. Heart Failure Management 2009, UNC Schools of Medicine, Nursing and Pharmacy, Amelia Island, Fla., July 17, 2009.

Mitral valve disease – surgical update. American College of Surgeons, 94th Annual Clinical Congress. October 11, 2008, San Francisco, CA.

Percutaneous coronary intervention or coronary artery bypass grafting: Intervention in the elderly with Acute Coronary Syndrome. Part I: Differential diffusion of invasive therapies; Part II: Outcomes from invasive treatments. With CME post-test and learning objectives for each part, written by Sheridan. CME materials published in Clinical Geriatrics, 2008. (Clin Geriatrics 2008;16(10):39-44. Clin Geriatrics 2008;16(11):40-46.)

Novel devices for heart failure management. Heart Failure Management 2008, UNC Schools of Medicine, Nursing and Pharmacy. Amelia Island, Fla. July 18, 2008.

Which device, which patient (panel discussion). Heart Failure Management 2008, UNC Schools of Medicine, Nursing and Pharmacy. Amelia Island, Fla. July 18, 2008.

Surgical approaches to ventricular remodeling. Heart Failure Management 2008, UNC Schools of Medicine, Nursing and Pharmacy. Amelia Island, Fla. July 18, 2008.

Novel devices for heart failure treatment (discussion). Heart Failure Management 2007 (UNC Schools of Medicine, Nursing and Pharmacy). Amelia Island, Fla., July 14, 2007.

Surgical approaches to ventricular remodeling. Heart Failure Management 2007 (UNC Schools of Medicine, Nursing and Pharmacy). Amelia Island, Fla., July 13, 2007.

Devices and surgical approaches in the management of heart failure (panel discussion). Heart Failure Management 2007 (UNC Schools of Medicine, Nursing and Pharmacy). Amelia Island, Fla., July 13, 2007.

Endocarditis. Review Course in Cardiac and Thoracic Surgery (postgraduate course). American College of Surgeons Clinical Congress, San Francisco, Calif., Oct. 19, 2005.

Surgical treatment of CHF. Heart Failure Management Conference, Amelia Island, Fla., July 15, 2005.

Therapeutic approach to atrial fibrillation. Nash General Hospital (sponsored by AHEC – Health Education Foundation of Eastern North Carolina), Rocky Mount, N.C. Jan. 19, 2005.

HIT (Heparin induced thrombocytopenia) and CPB (Cardio-pulmonary bypass). North Carolina Society of Perfusionists. (Meeting sponsored by East Carolina University) Chapel Hill, N.C. April 24, 2004.

Minimally invasive cardiac surgery. Presentation to medical staff and allied health professionals, High Point Regional Health System, High Point, N.C., October 28, 2003.

Surgical treatment: The standard of care for peripheral arterial occlusive disease. Horizons in Surgery, Department of Surgery, University of Colorado, Breckenridge, Colo., March 12, 1999.

Acute and chronic effects of double lung transplantation without cardiopulmonary bypass on the first transplanted lung. American College of Surgeons (Colorado Chapter), Breckenridge, Colorado, June 12, 1998.

Axillary breast dissection for invasive breast cancer is essential. Horizons in Surgery, Department of Surgery, University of Colorado, Breckenridge, Colorado, March 8, 1998.

Interleukin-11 attenuates TNF-mediated lung inflammation following endotoxin. Western Trauma Association, Lake Louise, Alberta, Canada, February 25, 1998.

Acute and chronic effects of double lung transplantation without cardiopulmonary bypass on the first transplanted lung. Southern Thoracic Surgical Association, Naples, Florida, November 8, 1997.

Endotoxin-induced vascular collapse derives from $K_{ATP}$ channel activation with resultant impairment of alpha $_1$-adrenergic signaling. American College of Surgeons (Surgical Forum), Chicago, Illinois, October 15, 1997.

Malignant melanoma: Aggressive surgical management. Horizons in Surgery, Department of Surgery, University of Colorado, Breckenridge, Colorado, March 10, 1997.

L-arginine depletion mediates pulmonary artery endothelial dysfunction in acute lung injury. Society of University Surgeons, Tampa, Florida, February 15, 1997.

Tumor necrosis factor mediates endotoxin-induced pulmonary vascular injury. Association for Academic Surgery, Chicago, Illinois, November 16, 1996.

Phosphodiesterase inhibition overcomes pulmonary vasomotor dysfunction in acute lung injury. Association for Academic Surgery, Chicago, Illinois, November 14, 1996.

Neutrophils mediate pulmonary vascular smooth muscle dysfunction in acute lung injury. American College of Surgeons (Surgical Forum), San Francisco, California, October 9, 1996.

Pulmonary dysfunction and sepsis. Coller Surgical Society. Colorado Springs, Colorado, October 4, 1996.

Neutrophils mediate pulmonary vasomotor dysfunction in endotoxin-induced acute lung injury. American Association for the Surgery of Trauma, Houston, Texas, September 19, 1996

Multidisciplinary approach to persistent and recurrent hyperparathyroidism. American College of Surgeons (Colorado Chapter). Breckenridge, Colorado, June 13, 1996.

Fever: a maladaptive response. Horizons in Surgery, Department of Surgery, University of Colorado, Breckenridge, Colorado, March 16, 1996.

Neutrophils mediate impairment of cGMP-mediated mechanisms of pulmonary vasorelaxation in acute lung injury. Society of University Surgeons, Washington D.C., February 10, 1996.

Immune enhancing diets are beneficial. Horizons in Surgery, Department of Surgery, University of Colorado, Breckenridge, Colorado, February 23, 1995.

**Clinical Teaching**

Daily clinical teaching of 3rd year medical students on the General Surgery service who are rotating on Cardiothoracic Surgery (2002-present) - Curriculum on basic surgery concepts

Daily clinical teaching of 4th year medical students choosing Cardiac Surgery as a Critical Care elective (2004-present) - Curriculum of advanced understanding of critical care

Daily clinical education of 2nd year General Surgery Residents (2002-present) - Curriculum of Critical Care pathophysiology and treatment, ICU procedures and technique as well as medical optimization of heart failure

Daily clinical education of Cardiothoracic Surgery Residents – years 1 through 3 (2002- Present) - This reflects a rigorous curriculum covering the breadth of cardiac surgery inclusive of all aspects of the care of the cardiac surgical patient.

**Preceptor**

Preceptor for Surgery Residents Houman Tamaddon and Jason Glotzbach in 2005-06 and 2006-07; Glotzbach 2007-present.

**Lab/Mentoring**

Suturing Workshop for surgery residents, UNC, Chapel Hill, N.C. Helped residents learn to complete closure of an arteriotomy and complete an anastamosis. Jan. 30, 2008

**Other Supervision**

Participant, Mock Orals for Surgery Residents, UNC Department of Surgery: 2005, 2006, 2007

Participant, Shadowing Program (for pre-med students), Carolina Pre-Medical Association, 2006-07

**RESEARCH EXPERIENCE**:

**ACTIVE GRANTS**

1T32HL083828-01 (Stouffer, PI) 2010-present No salary support
National Institutes of Health (NRSA)
UNC Clinician-Scientist Training Program in Cardiovascular Medicine
Role: Grant advisory committee member

**ACTIVE CLINICAL TRIALS**

IDE G100124 (Sheridan, Local PI) 3/4/2013-3/3/2017 No salary support
Jarvik Heart, Inc. $157,000
Destination Therapy Study of the Jarvik 2000 Adult Left Ventricular Assist System, Post-Auricular Cable
Goal: Prospectively randomize patients to receive either therapy using the Jarvik 2000 Ventricular Assist System or control therapy using a product approved by the FDA for destination therapy.

(Sheridan, Local PI) 9/10/2012-9/10/2018 No salary support
Thoratec Corporation $23,502
Driveline Silicone Skin Interface (SSI) Registry
Goals: Determine the freedom from driveline infection events in subjects implanted with a HeartMate II LVAD in whom only the silicone portion of the DL is externalized resulting in a silicone skin interface (SSI). Collect data on the different tunneling techniques and DL exit site.
Role: PI for UNC site

TMH-08 (N. Key, PI) 12/1/2010 to 8/31/2014 No salary support
National Heart, Lung, and Blood Institute
(Tranfusion Medicine/Hemostasis Clinical Trials Network)
Red Cell Storage Duration Study (RECESS)
A randomized trial to determine if there is a clinically important difference between the effct of shorter storage-age red blood cells (RBCs) vs longer storage-age RBCs on clinical outcome and mortality risk. http://clinicaltrials.gov/ct2/show/NCT00991341?term=RECESS&rank=1
Role: Co-Investigator

**COMPLETED GRANTS:**

1R01AG025801-01A1 (Stearns, Sheridan, Co-PIs) 09/15/2007-06/30/2010 20%
National Institutes of Health (National Institute on Aging) ($451,000 direct costs)
Acute coronary syndrome outcomes for Medicare patients
Goal: This project used Medicare claims data to examine outcomes from the use of mechanical myocardial revascularization over the study period (2003-2007) in Medicare patients presenting with acute coronary syndrome (ACS).
Role: Co-principal investigator

1R01AG025801-03S1 (Stearns, Sheridan) 7/1/2009-6/30/2010
National Institutes of Health (National Institute on Aging)
Acute coronary syndrome outcomes for Medicare patients – administrative supplement
Goal: investigate causes of repeat revascularization among Medicare patients admitted with ACS.
Role: Co-PI

BRP HL 67622 (Lucas, PI) 07/01/02-06/30/07
National Institutes of Health with Georgia Institute of Technology, Emory University, and Children's Hospital of Philadelphia.
Understanding/improving flow dynamics of Fontan repairs.
Role: Co-Investigator (Local)

**COMPLETED CLINICAL TRIALS:**

NCT00086450 (Sheridan, UNC PI) 12/22/2006-12/31/2011 No support
National Institutes of Health – UNC has subcontract (G040164)
from Mt. Sinai School of Medicine. $7,500
Future REvascularization Evaluation in Patients with Diabetes Mellitus: Optimal Management of Multivessel Disease (FREEDOM trial)
Role: Principal Investigator for UNC

IDE G000058 (Sheridan, Local PI) 1/25/2005-1/31/2010 No salary support
Jarvik Heart, Inc. $12,000
Jarvik 2000 Multi-Center Pivotal Study
The purpose of this multi-center pivotal study is to determine the potential clinical utility of the Jarvik 200 Heart as a bridge to heart transplantation and ultimately as a permanent assist device in patients with heart failure.
Role: Local principal investigator

Protocol 2003141 (Sheridan, Local PI) 10/19/2004-11/15/2006 No salary support
Procter and Gamble Co./Quintiles, Inc. $456,000
Multi Center Study of 2 mg/kg Bolus + 24-hour 0.05 mg/kg/hr Infusion of Pexelizumab in Pts Undergoing Coronary Artery Bypass Grafting w/ Cardiopulmona
Role: Local principal investigator

CGT003-04 (Sheridan, Local PI) 1/31/2003-1/30/2008 No support
Society of Thoracic Surgeons/ Duke Clinical Research Institute/Corgentech Inc. $126,600
Prevent IV: A Phase III, Multi-Center Randomized, Double-Blind, Placebo-Controlled Trial of the Ex Vivo Treatment with CGT003 of Coronary Vein Grafts in patients undergoing coronary artery bypass graft procedures.
Role: Local PI

1UO1-HL69015-02 (Ohman, PI) 01/18/02-12/31/05
National Institutes of Health
STICH-Surgical Treatment for Ischemic Heart Failure.
Multicenter international randomized trial of therapy for patients with clinical heart failure, left ventricular dysfunction with CAD amenable to surgical revascularization. Hypothesis (1): CABG w/ intensive medical therapy improves long-term survival compared to intensive medical therapy alone. Hypothesis (2): In patients w/ anterior LV dysfunction, surgical ventricular restoration to a more normal LV size improves survival free of subsequent hospitalization for cardiac cause in comparison to CABG alone.
Role: Local Co-Investigator

**OTHER RESEARCH:**
1995-1997 N.I.H. Trauma Surgical Research Fellow
University of Colorado Health Sciences Center, Denver, Colorado
Mentors: David A. Fullerton, M.D., Robert C. McIntyre, Jr., M.D.

1986-1988 Undergraduate Research Grant, Stanford University
Mentor: Mervyn Maze, M.D.

**PROFESSIONAL SERVICE, MEMBERSHIPS**

**National organizations:**
American College of Cardiology (Candidate), 2002-present
American College of Chest Physicians (Affiliate), 2002-present
American College of Surgeons (Fellow), 2006-present
American Geriatrics Society – Reviewer for Jahnigen Career Development Scholars Awards (Thoracic Surgery section) - Dec. 12, 2008-Jan.15, 2009.
American Physiological Society (Member), 2002-present
Heart Valve Society of America (Member), 2005-present
Society of Thoracic Surgeons (Member)
Co-Chair, Task Force on Performance Improvement CME, July 2010-present
Peer reviewer for abstracts, surgical videos for STS' 2010 meeting (began May 19, 2009)
Member - Workforce on Clinical Education, 2006-2011
Southern Thoracic Surgical Society (Member), 2003-present

**Government committees:**
U.S. Food and Drug Administration - Consultant to Circulatory System Devices Panel, to other panels of the Medical Devices Advisory Committee, and to Center for Devices and Radiological Health (review and evaluate data on safety and effectiveness of marketed and investigational devices), 2007-present (reappointed for period 11/24/11-11/23/15).
United Network for Organ Sharing – Region 11 Heart Regional Review Board (provides quick review for specific urgent status patient registrations on OPTN/UNOS heart waiting list. Rotating on board Nov. 1, 2009-present.

**Editorial activities:**
Chief Editor, Cardiology Journal, *e-Medicine*.com, 2007-present
Invited Reviewer, American Heart Journal, 2002-present
Reviewer, American Journal of Physiology, 2002-present
Reviewer, Journal of Applied Physiology, 2002-present

**Within UNC-Chapel Hill:**
University of North Carolina Hospitals:
Director of Adult Cardiac Surgery, 2008-2011
Director of Mechanical Circulatory Support & Cardiac Transplantation, 2008-present
Member, Cardiac and Vascular Service Sector Team (Strategic Planning), 2008-present
Member, Critical Care e-Chart Physician Design Team (ICU), 2008-present
Member, Transplant Committee, November 2007-present
Medical Director, Cardiothoracic Intensive Care Unit, 2004-present

Committee on Medical Student Issues and Clerkship Coordination, September 2004-present
Multidisciplinary Hospital Committee, Approach to the patient with HITT, 2004-present
Multidisciplinary Hospital Committee, Quality improvement to decrease patient in-hospital time from heart catheterization to definitive treatment, 2004-present

UNC Medical School:
Conducted interviews for UNC General Surgery residents, 2006
Education Committee, UNC Department of Surgery, September 2004-present
Conducted interviews for UNC Cardiothoracic Surgery residents, 2003-present

Other activities:
Research Fellow, Cecil G. Sheps Center for Health Services Research, April 2005-March 2015