

Committee on Energy and Commerce
U.S. House of Representatives
Witness Disclosure Requirement - "Truth in Testimony"
Required by House Rule XI, Clause 2(g)(5)

1. Your Name: Alan M Speir, MD		
2. Your Title: Medical Director, Cardiac Surgical Services, Inova Health System Chair, Workforce on Health Policy, Advocacy, and Reform for Society of Thoracic Surgery Chair, Board of Directors, Virginia Cardiac Surgery Quality Initiative		
3. The Entity(ies) You are Representing: Society of Thoracic Surgery		
4. Are you testifying on behalf of the Federal, or a State or local government entity?	Yes	No X
5. Please list any Federal grants or contracts, or contracts or payments originating with a foreign government, that you or the entity(ies) you represent have received on or after January 1, 2013. Only grants, contracts, or payments related to the subject matter of the hearing must be listed.		
6. Please attach your curriculum vitae to your completed disclosure form.		

Signature: Alan M Speir

Date: January 20, 2015

INSTRUCTIONS FOR COMPLETING THE TRUTH-IN-TESTIMONY DISCLOSURE FORM

In General. The attached form is intended to assist witnesses appearing before the Committee on Energy and Commerce in complying with Rule XI, clause 2(g)(5) of the Rules of the House of Representatives, which provides:

(B) In the case of a witness appearing in a nongovernmental capacity, a written statement of proposed testimony shall include a curriculum vitae and a disclosure of any Federal grants or contracts, or contracts or payments originating with a foreign government, received during the current calendar year or either of the two previous calendar years by the witness or by an entity represented by the witness and related to the subject matter of the hearing. (C) The disclosure referred to in subdivision (B) shall include (i) the amount and source of each Federal grant (or subgrant thereof) or contract (or subcontract thereof) related to the subject matter of the hearing; and (ii) the amount and country of origin of any payment or contract related to the subject matter of the hearing originating with a foreign government. (D) Such statements, with appropriate redactions to protect the privacy or security of the witness, shall be made publicly available in electronic form not later than one day after the witness appears.

Please complete the form in accordance with these directions.

1. ***Name, Title, Entity(ies) (Items 1-3 on the form).*** Please provide the name and title of the witness and the entity(ies) on whose behalf the witness is testifying.
2. ***Governmental Entity (Item 4).*** Please check the box indicating whether or not the witness is testifying on behalf of a government entity, such as a Federal department or agency, or a State or local department, agency, or jurisdiction. Trade or professional associations of public officials are not considered to be governmental organizations.

Grants and Contracts (Item 5). Please list any Federal grants or contracts, or contracts or payments originating with a foreign government, that you or the entity(ies) you represent have received on or after January 1, 2013. For each Federal grant (or subgrant thereof) or contract (or subcontract thereof) related to the subject matter of the hearing, please include the amount and source of each. For each payment or contract originating with a foreign government related to the subject matter of the hearing, please include the amount and country of origin of each. Only grants, contracts, or payments related to the subject matter of the hearing must be listed.
3. ***Curriculum Vitae (Item 6).*** Please attach your CV to your completed disclosure form.
4. ***Submission.*** Please sign and date the form in the appropriate place. Please submit this form with your written testimony. Please note that under the Committee's rules, copies of a written statement of your proposed testimony must be submitted before the commencement of the hearing. To the greatest extent practicable, please also provide a copy in electronic format according to the Electronic Format Guidelines that accompany these instructions.

CURRICULUM VITAE

Alan M. Speir, M.D.

I. Personal Data

Date of Birth: August 9, 1947
Place of Birth: Charlotte, North Carolina
Marital Status: Married, two children

II. Education

Year: 1969 Degree: English Institution: University of North Carolina
Chapel Hill, North Carolina

III. Post-Graduate Education

Year: 1975 Degree: M.D. Institution: Medical College of Georgia
Augusta, Georgia

Year: 1975 – 1976 Internship Institution: University of Texas Medical School
General Surgery Houston, Texas

Year: 1976 – 1979 Residency Institution: University of Texas Medical School
General Surgery Houston, Texas

Year: 1979 – 1980 Chief Residency Institution: University of Texas Medical School
General Surgery Houston, Texas

Year: 1980 – 1982 Residency Institution: Texas Heart Institute
Cardiac/Thoracic Surgery St. Luke's Hospital
Houston, Texas

IV. Academic Appointments

Professor of Surgery, Virginia Commonwealth University-Inova Campus

V. Other Employment Pertaining to Current Professional Appointments

Medical Director Cardiac Surgical Services, Inova Health System
Falls Church, Virginia
2008 – Present

CURRICULUM VITAE

Alan M. Speir, M.D.

Chairman, Virginia Cardiac Surgery Quality Initiative (VCSQI)
2007 - Present

Chief, Section of Cardiac Surgery - Inova Fairfax Hospital/Inova Heart and Vascular Institute
Falls Church, Virginia
January 2004 – 2008

Director, Cardiac Surgery Intensive Care Unit – Inova Heart and Vascular Institute
Falls Church, Virginia
January 2005 – Present

Clinical Chief, Cardiothoracic Surgery - National Naval Medical Center
Bethesda, Maryland
August 1997 – 2012

Department Head, Cardiothoracic Surgery Department – National Naval Medical Center
Bethesda, Maryland
1987-1997

Senior Consultant in Cardiac Surgery to U.S. Capitol Physician
1997 – Present

Vice-Chairman, Virginia Cardiac Surgery Quality Initiative
2000 – 2007

Senior Staff, Department of Surgery, Sections of Cardiac, Thoracic, and Vascular
Surgery – Inova Fairfax Hospital / Inova Heart and Vascular Institute
Falls Church, Virginia
1983 - Present

Senior Staff, Department of Surgery, Sections of Cardiac, Thoracic, and Vascular
Surgery - Inova Alexandria Hospital
Alexandria, Virginia
1997 - Present

Senior Staff, Department of Surgery, Sections of Cardiac, Thoracic, and Vascular Surgery -
Virginia Hospital Center-Arlington
Arlington, Virginia
1997 – Present

VI. Certification and Licensure

A. Certification

CURRICULUM VITAE

Alan M. Speir, M.D.

American Board of Surgery, 1981
American Board of Thoracic Surgery, Certificate #4195, 1984
Recertified, 1994
Recertified, 2002
Expiration: 12/31/2014

B. Licensure

Virginia #0101033924
Maryland #D0039118

VII. Honors and Awards

Alpha Omega Alpha, 1975

Eaton Surgical Research Scholar, 1979, 1980

John C. Waldron Award - Outstanding Resident in Surgery, 1980,
University of Texas Medical School at Houston

America's Top Doctors
Castle and Connolly Guide; Cardiac/Vascular 2000-2012

VIII. Professional Affiliations (including offices held) and External Committee Appointments

American Association for Thoracic Surgery
Membership Committee, 2012
Society of Thoracic Surgeons

Workforce on Annual Meeting (Program Task Force), 2012, 2013, 2014
Workforce on National Databases, 2012, 2013, 2014
AATS/STS Joint Committee on Health Policy, Reform, Advocacy, 1992-1996, 1998-1999, 2006-
WorkForce Chairman, 2014-Present
Southern Thoracic Surgical Association
American College of Cardiology (Fellow)
American College of Surgeons (Fellow)
American College of Chest Physicians (Fellow)
Fairfax County Medical Society
Medical Society of Virginia
Virginia Thoracic Society
Denton A. Cooley Surgical Society
The Metropolitan Washington Society of Thoracic and Cardiovascular Surgeons
American Medical Association

CURRICULUM VITAE

Alan M. Speir, M.D.

VIII. Professional Affiliations (including offices held) and External Committee Appointments (Cont.)

AMA Innovators Committee, 2010-2014
AMA Data Transparency Workforce, 2013-2014
NQF Expert Panel Linking Cost and Quality, 2013-2014
Joint Commission Comprehensive Cardiac Center Technical Advisory Panel, 2014

IX. Papers Published or in press

A. Peer Reviewed

Groom R.C., Hill A.G., **Speir A.M.**, Macmanus Q, Lefrak E.A. Emergency portable oxygenation system revisited. *Proceed Amer Acad of Cardiovasc Perfusion* 4:150-153, 1983.

Hill A.G., Groom R.C., Smith D, **Speir A.M.**, Macmanus Q, Lefrak E.A. Complement activation during cardiopulmonary bypass: polyester versus nylon tricot in the oxygenator. *Proceed Amer Acad of Cardiovasc Perfusion*. 5:17, 1984.

Groom R.C., Hill A.G., Vinansky R, **Speir A.M.**, Macmanus Q, Lefrak E.A. Counterpulsation in the aortic and pulmonary positions with a left ventricular assist pump. *Proceed Amer Acad of Cardiovasc Perfusion* 6:163-167, 1985.

Hill A.G., Groom R.C., Vinansky R, **Speir A.M.**, Macmanus Q, Lefrak E.A.: Hollow fiber membrane oxygenation and bubble oxygenation - a contrast. *Proceed Amer Acad of Cardiovasc Perfusion* 6:51-58, 1985.

Hill A.G., Groom R.C., Vinansky R, **Speir A.M.**, Macmanus Q, Lefrak E.A. Hollow fiber membrane oxygenation and bubble oxygenation: a comparison of psychometric test results. *Proceed Amer Acad of Cardiovasc Perfusion* 6:70-73, 1985.

Hill A.G., Groom R.C., Vinansky R, **Speir A.M.**, Macmanus Q, Lefrak E.A. Pressure measurement with a disposable pressure monitoring system. *Proceed Amer Acad of Cardiovasc Perfusion* 6:143, 1985.

Groom R.C., Hill A.G., Vinansky R, **Speir A.M.**, Macmanus Q, Lefrak E.A. Transfusion alternative: conservation and autotransfusion. *Amer Acad of Cardiovasc Perfusion* 7:73-77, 1986.

Hill A.G., Groom R.C., Vinansky R, **Speir A.M.**, Macmanus Q, Lefrak E.A. Gaseous microemboli and extracorporeal circulation. *Proceed Amer Acad of Cardiovasc Perfusion* 7:131-137, 1986.

Hill A.G., Groom R.C., Vinansky R, **Speir A.M.**, Macmanus Q, Lefrak E.A. The techniques of blood conservation. *Proceed Amer Acad of Cardiovasc Perfusion* 7:43-49, 1986.

CURRICULUM VITAE

Alan M. Speir, M.D.

Hill A.G., Enzer S, Marino J, Groom R.C., Vinansky R, **Speir A.M.**, Macmanus Q, Lefrak E.A. Clinical experience with a new portable blood gas and electrolyte analyzer for use during cardiopulmonary bypass. *Proceed Amer Acad of Cardiovasc Perfusion* 8:45-51, 1987.

Hill A.G., Groom R.C., Vinansky R, Marino J, **Speir A.M.**, Macmanus Q, Lefrak E.A. High frequency ventilation and prostaglandin E for respiratory insufficiency in the left ventricular assist patient. *Proceed Amer Acad of Cardiovasc Perfusion* 08:239-241, 1987.

Hill A.G., Tewksbury L, Groom R.C., Munoz R, Marino J, **Speir A.M.**, Lefrak E.A. Utilizing the Sarns 9000 heart-lung machine in concert with the STARS data management system. *Proceed Amer Acad of Cardiovasc Perfusion* 9:96, 1988.

Hill A.G., Groom R.C., Munoz R, McGowen K.J., Marino J, **Speir A.M.**, Lefrak E.A. Cardioplegia administration and the heat exchanger. *Proceed Amer Acad Cardiovasc Perfusion* 11:38, 1990.

Hill A.G., Groom R.C., Marino J, Munoz R, McGowen K.J., Devolder R, **Speir A.M.**, Lefrak E.A. More precise heparin and protamine management during cardiopulmonary bypass. *Proceed Amer Acad Cardiovasc Perfusion* 11:12, 1990.

Hill A.G., Groom R.C., Munoz R, Leone C, McGowen K, Marino J, **Speir A.M.**, Lefrak E.A. Heat exchangers and cardioplegia administration. *J of Molecular and Cellular Cardiology*. 22(5):S34, 1990.

Hill A.G., Hood A.G., Reeder G.D., Potter P.S., Iverson L, Keating R.F., **Speir A.M.**, Lefrak E.A. Perioperative autologous sequestration II: a differential centrifugation technique for autologous component therapy: methods and results. *Proceed Amer Acad of Cardiovasc Perfusion* 14:122, 1993.

Burton N.A., Lefrak E.A., Macmanus Q, Hill A.G., **Speir A.M.**, Akl B.F., Massimiano P.S. A reliable bridge to cardiac transplantation: the TCI left ventricular assist device. *Ann Thorac Surg* 55:1425-31, 1993.

Groom R.C., Hill A.G., O'Neill W, Kuban B, Akl B.F., **Speir A.M.**, Konigsberg J, Sprissler G.T., Shakoor M, Massimiano P.S., Burton N.B., Albus R.A., Macmanus Q, Lefrak, E.A. Aortic cannula velocimetry. *Perfusion* 10:183-188, 1995.

Groom R.C., Hill A.G., Kurusz M, Munoz R, McGowen K.J., Resley J, Akl B.F., **Speir A.M.**, Lefrak E.A. Paediatric perfusion practice in North America: an update. *Perfusion* 10: 393-401, 1995.

Barnett S.D., Halpin L.S., **Speir A.M.**, Lefrak E.A. Retrospective comparison of postoperative complications after cardiovascular surgery in patients aged 80 and older. *J Am Geriatr Soc.*;50(11):1908-10, 2002

Halpin L.S., **Speir A.M.**, Capobianco P, Barnett S.D. Guided imagery in cardiac surgery. *Outcomes Manag.* 6(3):132-7, 2002.

CURRICULUM VITAE

Alan M. Speir, M.D.

Barnett S.D., Halpin L.S., **Speir A.M.**, Lefrak E.A. Risk factors predicting pneumonia in patients aged 80 and older after cardiac surgery. *J Am Geriatr Soc.* 50(7):1313-4, 2002.

Halpin L.S., **Speir A.M.**, Capobianco P, Barnett S.D. Guided imagery in cardiac surgery. *Outcomes Manag.* 6(3):132-7, 2002

Barnett S.D., Halpin L.S., **Speir A.M.**, Lefrak E.A. Risk factors predicting pneumonia in patients aged 80 and older after cardiac surgery. *J Am Geriatr Soc.* 50(7):1313-4, 2002.

Barnett S.D., Halpin L.S., **Speir A.M.**, Lefrak E.A. Retrospective comparison of postoperative complications following cardiovascular surgery among octogenarians. *J Am Geriatr Soc.* 2002.

Barnett S.D., Halpin L.S., **Speir A.M.**, Albus R.A., Akl B.F., Massimiano P.S., Burton N.A., Collazo L.R., Lefrak E.A. Postoperative complications among octogenarians after cardiovascular surgery. *Ann Thorac Surg.* 76(3):726-31, 2003.

Barnett S.D., Halpin L.S., **Speir A.M.** Incidence of postoperative complications among coronary artery bypass patients with and without hypertension. *Outcomes Manag.* 7(1):33-8, 2003.

Rich J.B., **Speir A.M.**, Fonner E Jr. Virginia cardiac surgery quality initiative: making a business case for quality by regional information sharing involving cardiothoracic surgery. *Am Heart Hosp J.* 4(2):142-7, 2006.

Ad N, Barnett SD, **Speir AM.** The performance of the EuroSCORE and the Society of Thoracic Surgeons mortality risk score: the gender factor. *Interact Cardiovasc Thorac Surg.* 2007 Apr;6(2):192-5.

Ad N, Barnett SD, **Speir AM,** Massimiano PS. Institutional and national trends in isolated mitral valve surgery over the past decade. *Current Opinion in Cardiology.* 2008;23(2):99-104.

Martin LM, Barnett SD, Lefrak EA, **Speir AM,** Hunt SL, Halpin LS, Mukherjee N, Ad N. The Association Between Early Outcome, Health-Related Quality of Life and Long-Term Survival Following Elective Open-Heart Surgery. *Journal of Cardiovascular Nursing.* 2008 Sep-Oct;23(5)432-442.

Speir A.M., Rich JB, Crosby I, Fonner E Jr., Regional collaboration as a model for fostering accountability and transforming health care. *Semin Thorac Cardiovasc Surg.* 2009 Spring;21(1):12-9.

Speir A.M., Kasirajan V, Barnett SD, Fonner E Jr., Additive costs of postoperative complications for isolated coronary artery bypass grafting patients in Virginia. *Ann Thorac Surg.* 2009 Jul;88(1):40-5; discussion 45-6.

CURRICULUM VITAE

Alan M. Speir, M.D.

Ad N, Barnett SD, Haan CK, O'Brien SM, Milford-Beland S, **Speir A.M.**, Does preoperative atrial fibrillation increase the risk for mortality and morbidity after coronary artery bypass grafting? *J Thorac Cardiovasc Surg.* 2009 Apr;137(4):901-6.

Gazoni LM, **Speir A.M.**, Kron IL, Fonner E, Crosby IK., Elective thoracic aortic aneurysm surgery: better outcomes from high-volume centers. *J Am Coll Surg.* 2010 May;210(5):855-9, 859-60.

Hawksworth JS, Fitzgerald D, **Speir A.M.**, Mukherjee D. Percutaneous in situ oxygenated pump perfusion of a transplanted kidney during abdominal aortic aneurysm repair. *Vascular.* 2010 Nov-Dec;18(6):367-70

Ad N, Henry L, Hunt S, Holmes S, Burton N, Massimiano P, Rhee J, Rongione A, **Speir A.M.**, Collazo L. Endoscopic Versus Direct Vision for Saphenous Vein Graft Harvesting in Coronary Artery Bypass Surgery. *J Cardiovasc Surg* 2011;52:739-48.

Ad N, Henry L, Hunt S, Holmes S, Burton N, Massimiano P, **Speir, AM**, et al. Endoscopic versus direct vision for saphenous vein graft harvesting in coronary artery bypass surgery. *J Cardiovasc Surg (Torino).* 2011 Oct;52(5):739-48.

LaPar DJ, Crosby IK, Ailawadi G, Ad N, Choi E, Spiess BD, **Speir, AM** et al. Blood product conservation is associated with improved outcomes and reduced costs after cardiac surgery. *J Thorac Cardiovasc Surg.* 2013 discussion 803-4; Mar;145(3):796-803.

LaPar DJ, Crosby IK, Kron IL, Kern JA, Fonner E, Jr, Rich JB, **Speir, AM**, et al. Preoperative beta-blocker use should not be a quality metric for coronary artery bypass grafting. *Ann Thorac Surg.* 2013 discussion 1544-5; Nov;96(5):1539-44.

LaPar DJ, Crosby IK, Rich JB, Fonner E, Jr, Kron IL, Ailawadi G, **Speir, AM**, et al. A contemporary cost analysis of postoperative morbidity after coronary artery bypass grafting with and without concomitant aortic valve replacement to improve patient quality and cost-effective care. *Ann Thorac Surg.* 2013 Nov;96(5):1621-7.

Osnabrugge RL, **Speir AM**, Head SJ, Fonner CE, Fonner E, Jr, Ailawadi G, et al. Costs for surgical aortic valve replacement according to preoperative risk categories. *Ann Thorac Surg.* 2013 Aug;96(2):500-6.

Rich J, Grover FL, Prager RL, **Speir AM.** Quality improvement in cardiac surgery: January 30, 2013, Los Angeles, CA. *Semin Thorac Cardiovasc Surg.* 2013;25(2):171-91.

Speir AM, Henry LL, Hunt SL, Holmes SD, Ad N. Health-related quality of life following isolated aortic valve surgery: Is earlier intervention better?. *J Heart Valve Dis.* 2013 May;22(3):270-5.

CURRICULUM VITAE

Alan M. Speir, M.D.

Yanagawa B, Collazo L, Burton N, Ad N, **Speir AM**. Combined heart transplantation and thoracic endovascular aortic repair for heart failure secondary to tricuspid atresia palliated with potts shunt. *Innovations*. 2013 May-Jun;8(3):242-4.

Yanagawa B, Collazo L, Burton N, Ad N, **Speir AM**. Combined heart transplantation and thoracic endovascular aortic repair for heart failure secondary to tricuspid atresia palliated with potts shunt. *Innovations*. 2013 May-Jun;8(3):242-4.

LaPar DJ, Ailawadi G, Isbell JM, Crosby IK, Kern JA, Rich JB, **Speir, A**, et al. Mitral valve repair rates correlate with surgeon and institutional experience. *J Thorac Cardiovasc Surg*. 2014 discussion 1003-4; Sep;148(3):995-1003.

LaPar DJ, Filardo G, Crosby IK, **Speir AM**, Rich JB, Kron IL, et al. The challenge of achieving 1% operative mortality for coronary artery bypass grafting: A multi-institution society of thoracic surgeons database analysis. *J Thorac Cardiovasc Surg*. 2014 Dec;148(6):2686-96.

LaPar DJ, Ghanta RK, Kern JA, Crosby IK, Rich JB, **Speir AM**, et al. Hospital variation in mortality from cardiac arrest after cardiac surgery: An opportunity for improvement?. *Ann Thorac Surg*. 2014 discussion 539-40; Aug;98(2):534-9.

LaPar DJ, Isbell JM, Crosby IK, Kern J, Lim DS, Fonner E, Jr, **Speir, AM**, et al. Multicenter evaluation of high-risk mitral valve operations: Implications for novel transcatheter valve therapies. *Ann Thorac Surg*. 2014 Dec;98(6):2032-8.

LaPar DJ, **Speir AM**, Crosby IK, Fonner E, Jr, Brown M, Rich JB, et al. Postoperative atrial fibrillation significantly increases mortality, hospital readmission, and hospital costs. *Ann Thorac Surg*. 2014 discussion 533; Aug;98(2):527-33.

Osnabrugge RL, **Speir AM**, Head SJ, Fonner CE, Fonner E, Kappetein AP, et al. Performance of EuroSCORE II in a large US database: Implications for transcatheter aortic valve implantation. *Eur J Cardiothorac Surg*. 2014 discussion 408; Sep;46(3):400-8.

Osnabrugge RL, **Speir AM**, Head SJ, Jones PG, Ailawadi G, Fonner CE, et al. Cost, quality, and value in coronary artery bypass grafting. *J Thorac Cardiovasc Surg*. 2014 Dec;148(6):2729,2735.e1.

Osnabrugge RL, **Speir AM**, Head SJ, Jones PG, Ailawadi G, Fonner CE, et al. Prediction of costs and length of stay in coronary artery bypass grafting. *Ann Thorac Surg*. 2014 Oct;98(4):1286-93.

Pezzella AT, Holmes SD, Pritchard G, **Speir AM**, Ad N. Impact of perioperative glycemic control strategy on patient survival after coronary bypass surgery. *Ann Thorac Surg*. 2014 Oct;98(4):1281-5.

CURRICULUM VITAE

Alan M. Speir, M.D.

Quader M, Wolfe L, Median A, Fonner C, Ailawadi G, Crosby I, **Speir, AM** et al. Isolated aortic valve replacement with bio-prostheses in patients age 50 to 65 years: A decade of statewide data on cost and patient outcomes. *J Cardiovasc Surg (Torino)*. 2014 Sep 12.

B. Non Peer Reviewed

Dudrick S.J., **Speir A.M.**, Englert D.M. IVH as sole therapy for anemia and ulcerative colitis in two Jehovah's Witnesses. *JPEN*. 3:507, 1979.

Speir A.M., Dudrick S.J., Englert D.M. Thirty man years with ambulatory home hyperalimentation. *JPEN*. 3:510, 1979.

Dudrick S.J., **Speir A.M.**, Englert D.M. The short bowel syndrome and ambulatory home hyperalimentation. *Nutr in Clin Surg* 209-214, 1980.

Dudrick S.J., **Speir A.M.**, Rowlands B.R. Intravenous home hyperalimentation as sole therapy for anemia. *Fed Proc*. 39:1114, 1980.

Daly J.M., **Speir A.M.**, Lawson M. Raaf J.H. Angioaccess in cancer patients. *Current Problems in Cancer*, Vol V, No 9, 1981.

Speir A.M., Grey D.P., Cooley D.A. Resection of the aortic arch with moderate hypothermia and temporary circulatory arrest. *THI Jour*. 9:311, 1982.

Hill A.G., Groom R.C., Massimiano R, **Speir A.M.**, Macmanus Q, Lefrak E.A. Hollow fiber membrane oxygenation vs. bubble oxygenation: a comparison. *Proceed X Congres du C.E.C.E.C.*, Paris, 1984.

Hill A.G., Groom R.C., Vinansky R, **Speir A.M.**, Macmanus Q, Lefrak E.A. Hollow fiber versus flat plate oxygenation: a comparison. *Proceed XI Congres du C.E.C.E.C.*, Paris, 1985.

Vinansky R, Hill A.G., Groom R.C., **Speir A.M.**, Macmanus Q, Lefrak E.A. Pressure management and safety with a self-contained pressure device. *Proceed Amer Acad of Cardiovasc Perfusion* 7:101-104, 1987.

Macmanus Q, McCabe T, **Speir A.M.** Aortic graft - pulmonary fistula fourteen years following repair of an aortic transection. *Vir Med* 114:356-357, 1987.

CURRICULUM VITAE

Alan M. Speir, M.D.

Siefert T, **Speir A.M.** Left ventricular rupture: a collaborative approach to emergency management. *AORN Jour* 51(3):714-727, 1990.

Macmanus Q, Lefrak E.A., **Speir A.M.**, Landolt C.C., Burton N.A., Akl B.F., Albus R.A. Coronary artery bypass surgery: emerging trends in mortality. *Vir Med* 117:102-104, 1990.

Hill A.G., Groom R.C., Munoz R, **Speir A.M.**, Albus R.A., Lefrak E.A. Rescue hemostasis. *Case Reports: Clinical Studies in Extracorporeal Circulation*, Vol 2, Chapter 9, (pp. 62-68), 1996.

Rich J.B., **Speir A.M.**, Fonner E Jr. Virginia cardiac surgery quality initiative: making a business case for quality by regional information sharing involving cardiothoracic surgery. *Am Heart Hosp J.* 4(2):142-7, 2006.

C. Books and/or Chapters

Daly J.M., **Speir A.M.**, Lawson M. Vascular access in chemotherapy patients. *Int Adv in Surg Onc.* Vol III, 1980.

Edwin Fonner, DrPh, **Alan M Speir, MD**, Jeffrey B Rich, MD. "Collaboration in Cardiac Surgery Quality Improvement: The Virginia Experience." Quality Improvement: Methods, Principles, and Role in Healthcare. Ed. Lobdell and Stamou. 2013.

D. Abstracts Published

Barnett S.D., Halpin L.S., **Speir A.M.** Pneumonia in the octogenarian cardiac surgery patient. *American Heart Journal*, (No. 59), 2002.

Nathan S.D., Wohlrab J, Barnett S.D., **Speir A.M.** Retrospective validation of BOS-p as a predictor of BOS in single lung transplant recipients. *J Heart Lung Transpl* 21(1):55-188, (No. 60), 2002.

Halpin L.S., Barnett S.D., **Speir A.M.**, Lefrak E.A. Continued quality of life in the elderly one and two years post cardiac surgery. *J Am Geri Soc.* 50(4);S176 (No. 507), 2002.

Halpin L.S., Barnett S.D., **Speir A.M.**, Lefrak E.A. Is preoperative state of mind among elderly patients undergoing a coronary artery bypass graft (CABG) predictive of increased postoperative length of stay? *Am Ger Soci.* 50(4);S175 (No. 506), 2002.

Barnett S.D., Fonner E, Rich J, Ad N, **Speir A.M.** Summary results of the VCSQI: Valve replacement costs and mortality. *Am J Epidem* 163: S025, 2006.

Ad N, **Speir A.M.**, Hunt S.L., Lefrak E.A., Rongione A.J., Barnett S.D. Is Serum Creatinine < 2.0 mg/dL Sensitive Enough to Predict Adverse Outcomes Following Coronary Artery Bypass Grafting? Another look at the role of Glomerular Filtration Rate. *Chest* 2006, 187S.

CURRICULUM VITAE

Alan M. Speir, M.D.

Ad N, **Speir A.M.**, Burton N.A., Collazo L.R., Barnett S.D. The Performance of the EuroSCORE and the Society of Thoracic Surgeons Mortality Risk Score: The Gender Factor. *Chest* 2006; 122S.

Ad N, Barnett S.D., Hunt S, Fitzgerald D, **Speir A.M.** The use of aprotinin in cardiac surgery is associated with increased risk of renal failure and neurological events. *Circulation* 2006 [No. 2325].

Rich, Jeffrey B., **Speir, Alan M**, Edwin Fonner, Jr. Making a Business Case for Quality by Regional Information Sharing Involving Cardiothoracic Surgery. *The American Heart Hospital Journal*, 4, no. 2 (Spring 2006): 142-147

Ad N, Martin LM, Massimiano PS, Barnett SD, Hunt SL, **Speir AM**. Female patients following the maze procedure demonstrate an increased rate of quality of life improvement as compared to males. *Chest*. 2007;132:539b-540b.

Barnett SD, **Speir AM**, Ad N. Using the EuroSCORE to predict institution costs and identify patients at higher risk for resource consumption following open heart surgery. *Chest*. 2007;132:440.

Ad N, **Speir AM**, Harrison M, Hunt SL, Barnett SD. The Association Between Perioperative Complications, Intermediate Survival and Use of Aprotinin During Isolated Coronary Bypass Grafting Surgery. *Circulation*, Oct 2007;116:II_396.

Shrinivas Hebsur, Sari Holmes, **Speir, A.M.**, Anthony Rongione, Linda Henry, Sharon Hunt, Mark Willcox, Niv Ad. Aortic Valve Replacement: The Society of Thoracic Surgeons Risk Prediction of Mortality and One-Year Survival. *Innovations*, 6(3),192.

Sarin E, **Speir A**, Henry L, Holmes S, Hunt S, Halpin L, Ad N. Acute Normovolemic Hemodilution Decreases Blood Product Use and Postoperative Mortality and Morbidity Following Cardiac Surgery. *JACC*, March 27, 2012, 1256-293.

Damien J LaPar, MD, Ivan K Crosby, MD, Gorav Ailawadi, MD, Niv Ad, MD, Elmer Choi, MD, Bruce Spiess, MD, Jeffery Rich, MD, Vigneshwar Kasirajan, MD, Edwin Fonner, Jr, DrPh, Irving Kron, MD, and **Alan M Speir, MD**. "Blood Product Conservation is Associated with Improved Outcomes and Reduced Costs After Cardiac Surgery" *Journal of Thoracic and Cardiovascular Surgery*. Vol 145. No. 3, Mar, 2013. Pp796-804.

Alan M Speir, MD, Richard Prager, MD, Jeffery Rich, MD, Fred Grover, MD. Seminars in Thoracic and Cardiovascular Surgery: Discussion on Quality Improvement in Cardiac Surgery. (In Press)

Henry L, Hunt S, Holmes SD, Martin LM, Halpin L, **Speir A**, Ad N. Health-Related Quality of Life Following Isolated Aortic Valve Surgery: Is Early Intervention Better? *The Journal of Heart & Valve Disease*. In Press.

Yanagawa, B. Ad, N, Burton, N, **Speir, A**. Combined Heart Transplant and TEVAR for Heart Failure Secondary to Tricuspid Atresia Palliated with Potts Shunt Innovations. (In Press)

CURRICULUM VITAE

Alan M. Speir, M.D.

X. Invited Lectures, Presentations, and Symposiums

"Thirty Man Years Experience with Ambulatory Home Hyperalimentation", Presented to the American Society of Parenteral and Enteral Nutrition, Chicago, Illinois, February 1, 1980.

"Transection of the Descending Thoracic Aorta Secondary to Blunt Thoracic Injury", Presented to the South Texas Chapter of the American College of Surgeons, Temple, Texas, February 2, 1980.

"Chemotherapy Via Angioaccess Grafts", Presented to the Chief Residents Conference, Society for University Surgeons, Houston, Texas, February 4, 1980.

"IVH as Sole Therapy for Anemia and Ulcerative Colitis in Two Jehovah's Witnesses", Presented to the Federation of American Society for Experimental Biology, 64th Annual Meeting, Anaheim, California, March 17, 1980.

"Update on Cardiovascular Surgery", Presented to the Northern Virginia Consortium for Continuing Medical Education, Arlington, Virginia, February 2, 1983.

"State of the Art of Cardiac Surgery", Loudoun Hospital Center, Leesburg, Virginia, July 13, 1984.

"Sequential In situ Saphenous Vein Bypass with Angioscope Assisted Valvulotomy for Multi-level Disease in Limb Salvage", Videotape presented at the Symposium on Spectacular Problems in Surgery, American College of Surgeons, October 25, 1988.

"Surgical Interventions in Cardiothoracic Disease", Cardiothoracic Nursing Course, National Naval Medical Center, Bethesda, Maryland, September 14, 1989.

"Heart Surgery in Uganda", Mended Hearts, November 3, 1990.

"Surgery of the Aorta, Dissection, Trauma & Aneurysm", Northern Virginia Doctors Hospital, Department of Medicine, Arlington, Virginia, November 27, 1990.

"Current Controversies in Aortic and Mitral Valve Surgery", Shady Grove Hospital Medical Staff, July 11, 1991.

"Thoracic and Aortic and Ventricular Aneurysms", Cardiothoracic Surgical Nursing Course, National Naval Medical Center, October 7, 1991.

"Ascending Aortic Aneurysms", Fairfax Hospital Seminar on Advances in Practices in Cardiac Surgery, February 23, 1992.

CURRICULUM VITAE

Alan M. Speir, M.D.

"Aortic Dissection" - Potomac Hospital Emergency Room Medical Staff
November 30, 1992.

"Improved Right Heart Function in Patients Successfully Bridged with the TCI LVAD"
Presented at the ASAIO 39th Annual Meeting, New Orleans, April 1993.

"Technique, complications and experience with the left ventricular assist device" Presented at the
World Symposium on Cardiomyoplasty, Biomechanical Assist and Artificial Heart, Paris, France,
May 24-26, 1993.

"Hypothermia and Normothermia Myocardial Metabolism" - American Society for
Extracorporeal Technology - Raleigh, North Carolina, October 3, 1993.

"The Effect of Cost Reduction Strategies on Mortality and Morbidity in Coronary Artery Bypass
Surgery" Presented at The Michael E. DeBakey International Surgical Society, May 19-21, 1994,
Houston, Texas.

"Vascular Disease: State of the Art 1995" - Fairfax Hospital, November 4, 1995.

"The Virginia Cardiac Surgery Quality Initiative: Quality, Cost and Policy" Presented at the
Skills for the New World of Healthcare seminar, J.F.K. School of Public Affairs, Harvard University,
March 11, 2004.

"Examining the Quality of Administrative and Clinical Data Using STS and UB-92 Records" STS
Advances in Quality and Outcomes, October 2005. Chicago, Illinois.

"Additive Costs of Post Operative Complications in Virginia" – The Society of Thoracic Surgeons,
45th Annual Meeting, San Francisco, CA, January 26 2009.

"Physicians Leading Through Change" – AMA Presidents Forum, AMA Annual Meeting,
Washington, DC, March 9, 2009.

"The Significance of Preoperative Spirometry in Accurately Stratifying the Predicted Risk for
Adverse Outcomes in Cardiac Surgery Patients". American College of Chest Physicians (CHEST)
2009, San Diego, CA, November 2009.

"Endovascular and Surgical Options for Treatment of the Diseased Aorta" – 7th Annual Innovations
Cardiac and Vascular Symposium, Washington Adventist Hospital, Tacoma, MA, April 23, 2010.

"Timing of CEA: Early or Delayed? A Discussion of the Evidence" – Exploring the Brain – Heart
Connection, Inova Heart and Vascular Institute, Falls Church, VA, May 7, 2010.

"Physicians Leading through Change, The VCSQI Experience". Northern New England
Cardiovascular Study Group. Concord, NH. February 4, 2011.

CURRICULUM VITAE

Alan M. Speir, M.D.

AMA Payment Pathways Seminar: 2011 Joint Surgical Advocacy Conference-“How Surgeons Can Lead the Value-Based Payment Transformation”, Washington, DC, March 28, 2011

AMA Pathways to Success: What Physicians need to know about ACOs and the coming revolution in payment Practices-“Specialist and Primary care strategies for improving quality and lowering costs”, Raleigh, NC, July 16, 2011

AMA 2012 State Legislative Strategy Conference, Board Of Trustees Meeting. “Physician-Led Delivery and Payment Innovation”. Tucson, AZ, January 5, 2012

“Managing Your CV: Tips for Career Planning, The “Non-University” Experience. The Society of Thoracic Surgeons, 48th Annual Meeting, Ft. Lauderdale, FL. January 31, 2012.

STS Quality Webinar Series: Blood Conservation. Presented by STS Task Force on Quality Initiatives. February 28, 2012.

Sarin E, **Speir A**, Henry L, Holmes S, Hunt S, Halpin L, Ad N. Acute Normovolemic Hemodilution Decreases Blood Product Use and Postoperative Mortality and Morbidity Following Cardiac Surgery. American College of Cardiology 61st Annual Scientific Session, Chicago, IL, March 2012.

Henry L, Hunt S, Holmes S, Martin L, Halpin L, **Speir A**, Ad N. Health-Related Quality of Life Following Isolated Aortic Valve Surgery. 4th Annual Joint Scientific Session of the Heart Valve Society of America & Society of Heart Valve Disease, New York, NY, April 2012.

Speir A, Henry L, Rongione A, Halpin L, Holmes S, Hunt S, Martin L, Ad N. Minimally Invasive Versus Median Sternotomy Aortic Valve Replacement: Outcomes and Health-Related Quality of Life. 4th Annual Joint Scientific Session of the Heart Valve Society of America & Society of Heart Valve Disease, New York, NY, April 2012.

Damien J LaPar, MD, Ivan K Crosby, MD, Gorav Ailawadi, MD, Niv Ad, MD, Elmer Choi, MD, Bruce Spiess, MD, Jeffery Rich, MD, Vigneshwar Kasirajan, MD, Edwin Fonner, Jr, DrPh, Irving Kron, MD, and **Alan M Speir, MD**. “Blood product conservation is associated with improved outcomes and reduced costs after cardiac surgery.” Presented at the 92nd Annual Meeting of The American Association for Thoracic Surgery, San Francisco, CA, April 28-May 2, 2012.

National Summit on Overuse: Appropriate Blood Management Session. Joint Commission/CMS/AMA. Chicago, IL. September 24, 2012.

“Reducing Risk of Peri-Operative Bleeding: Evidence-Based Interventions and Guidelines.” Symposium on Quality Improvement in Cardiac Surgery Blood Conservation. Society of Thoracic Surgeons. Los Angeles, CA. January 26, 2013.

“Using Registries for Cost Savings/Quality Improvement Initiatives.” Health Policy Forum. Society of Thoracic Surgeons, Los Angeles, CA. January 30, 2013.

CURRICULUM VITAE

Alan M. Speir, M.D.

Damien J LaPar, MD, Jeffery Rich MD, Irving Kron, MD, Gorav Ailawadi, MD, **Alan M Speir, MD**. “A Contemporary Cost Analysis of Post Operative Morbidity Following Coronary Artery Bypass Grafting with and without Concomitant Aortic Valve Replacement To Improve Patient Quality and Cost Effective Care” Poster Session. Society of Thoracic Surgeons, Los Angeles, CA. January 29, 2013.

JE Rich, MD, Ed Fonner, DrPH, **Alan M Speir, MD**. “Baseline Costs for Isolated Elected Aortic Valve Replacement Based On the STS Predicted Risk Mortality Score”. Society of Thoracic Surgeons, Los Angeles, CA. January 29, 2013. **

DJ LaPar, IK Crosby, IL Kron, E Fonner, JB Rich, **AM Speir**. “Pre-Operative B-Blocker Should Not Be Used As A Quality Metric for Coronary Artery Bypass Grafting: A Statewide, Multi-Institutional, STS Adult Cardiac Surgery Database Analysis.” The Richard E. Clark Paper for Adult Cardiac Surgery. Society of Thoracic Surgeons, Los Angeles, CA. January 28, 2013.

Damien J. LaPar, MD, Irving L Kron, MD, **Alan M Speir, MD**, Gorav Ailawadi, MD. “Institutional Factors Impact Differences in Hospital Readmission Following Cardiac Surgery: A Statewide Multi-Institutional Quality Initiative”. 61st Meeting Southern Thoracic Surgical Association, Scottsdale, AZ. October 31, 2013.

Ravi K. Ghanta, MD, Damien J LaPar, MD, John A Kern, MD, **Alan M Speir, MD**, Gorav Ailawadi, MD. “Minimally Invasive AVR Provides Equivalent Outcomes to Conventional AVR without Increased Cost: An Analysis of a Multi-Institutional Regional STS Database”. 61st Meeting Southern Thoracic Surgical Association, Scottsdale, AZ. November 1, 2013.

Damien J. LaPar, MD, **Alan M Speir, MD**, Irving L Kron, MD, Gorav Ailawadi, MD. “Postoperative Atrial Fibrillation Significantly Increases Mortality, Hospital Readmission, and Hospital Costs”. 61st Meeting Southern Thoracic Surgical Association, Scottsdale, AZ. November 1, 2013.

Damien J. LaPar, MD, Ravi K. Ghanta, **Alan M Speir, MD**, Gorav Ailawadi, MD. “Hospital Variation in Mortality form Cardiac Arrest after Cardiac Surgery.: An Opportunity for Improvement?”. 61st Meeting Southern Thoracic Surgical Association, Scottsdale, AZ. November 1, 2013.

“Honored Speakers Lecture: Interview with former Vice-President Richard B. Cheney” American Association for Thoracic Surgery, Minneapolis, MN. May 7, 2013.

Damien J LaPar, MD, Gorav Ailawadi, MD, Jeffrey Rich, MD, **Alan M Speir, MD**, Irving L. Kron, MD. “Mitral Valve Repair Rates Correlate with Surgeon and Institutional Experience”. American Association for Thoracic Surgery. Toronto, ON, Canada. April 30, 2014.

“Perspectives on Value in Cardiac Surgery: Lessons from a Regional Collaborative”.. Visiting Professor Lecture. Baylor College of Medicine, Houston, TX. November 20, 2014.

CURRICULUM VITAE

Alan M. Speir, M.D.

“Perspectives on Value in Cardiac Surgery”. 35th Annual Meeting of American Academy of Cardiovascular Perfusion. Orlando, FL. January 24, 2014

“Current Practice of Cardiothoracic Surgery”. 50th Annual meeting Society of Thoracic Surgeons, Thoracic Surgery Residents Association, Orlando, FL. January 27, 2014.

“Surgical Treatment of Atrial Fibrillation: Decision Making and Surgeon Experience”. 16th South China International Congress of Cardiology. Guangzhou, China. April 12, 2014.

“Blood Management in Adult Cardiac Surgery”. 61st Annual Meeting Southern Thoracic Surgical Association. Tucson, AZ. November 5, 2014.

DJ LaPar, IK Crosby, JB Rich, **AM Speir**, I Kron. “Bilateral IMA Use for Coronary Artery Bypass Grafting Remains Underutilized: A Propensity Matched Multi-Institutional Analysis” 61st Annual Meeting Southern Thoracic Surgical Association, Tucson, AZ. November 6, 2014.

DJ LaPar, MA Quader, JB Rich, IL Kron, **AM Speir**, G Ailawadi. “Institutional Variation in Mortality After Stroke Following Cardiac Surgery: An Opportunity for Improvement?”. 61st Annual Meeting Southern Thoracic Surgical Association. Tucson, AZ. November 8, 2014.

XI. Poster Presentations

Barnett SD, Halpin LS, **Speir A.M.** Pneumonia in the octogenarian cardiac surgery patient presented at the 3rd Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease, Washington DC, Sept 30 - Oct 1, 2001. (No 133, oral).

Halpin LS, Barnett SD, **Speir A.M.**, Lefrak E. Continued quality of life in the elderly one and two-years post cardiac surgery. 2002 Annual meeting, American Geriatrics Society, Washington, DC, May 18-24. (No 506).

Halpin LS, Barnett SD, **Speir A.M.**, Lefrak E. Is preoperative state of mind among elderly patients undergoing coronary artery bypass graft (CABG) predictive of increased postoperative length of stay? 2002 Annual meeting, American Geriatrics Society, Washington, DC, May 18-24. (No. 507).

Ad N, Barnett SD, Henry LL, Hunt SL, **Speir A.M.** The Association Between Body Mass Index, Perioperative Complications, Health-Related Quality of Life, and Intermedicate-Term Survival Following Cardiac Surgery. The 94th Annual Clinical Congress of the American College of Surgeons, San Francisco, California, October 2008.

CURRICULUM VITAE

Alan M. Speir, M.D.

Halpin L, Henry LL, Barnett SD, Hunt SL, Black S, Ad N, Lamberti J, **Speir A.M.** The Use of Preoperative Spirometry to Define the Degree of Pulmonary Disease. Advances In Quality and Outcomes: A Data Managers Meeting, The Society of Thoracic Surgeons, Lake Buena Vista, Florida, October 2008.

Speir A.M., Barnett SD, Smith J, Fonner Jr., E . Gender Differences in Outcomes following On-pump CABG and Off-pump CABG: Results from the Virginia Cardiac Surgery Quality Initiative Registry. The American Heart Association Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke Conference, Washington, DC, April 23-25, 2009.

Speir A.M., Kasirajan V, Barnett SD, Fonner Jr., E. The Association of Gender and Age on Cost Following Isolated Coronary Artery Bypass Surgery: Results from the Virginia Cardiac Surgery Quality Initiative. The American Heart Association Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke Conference, Washington, DC April 23-25, 2009.

Speir A.M., Fonner Jr., E. Cost of Postoperative Complications in Cardiac Surgery. The Cleveland Clinic Foundation, Orthopedic and Rheumatology Care Quality Innovation Summit, Cleveland, OH, May 13-15, 2009.

Speir A.M., Fonner Jr., E. A model for Relating P4P to CQI. Cleveland Clinic Foundation, Orthopedic and Rheumatology Care Quality Innovation Summit, Cleveland OH, May13-15, 2009.

Speir A.M., Fonner Jr., E. A Multidisciplinary, Regional, Evidence-based QI Collaboration in Virginia. The Cleveland Clinic Foundation, Orthopedic and Rheumatology Care Quality Innovation Summit, Cleveland OH, May 13-15, 2009.

Fonner Jr., E., Kasirajan V, **Speir A.M.**, , Fonner CE. Ethnicity and Cost Following Isolated Coronary Artery Bypass Surgery: Results from the Virginia Cardiac Surgery Quality Initiative. The Academy Health Annual Research Meeting, Chicago, IL June 28-30, 2009.

Fonner, JR., E, Kasirajan V, **Speir A.M.**, Fonner CE: Measuring Changes in Care Practices and Postoperative Outcomes by Ethnicity and Gender Using a Disease Registry by a Cardiac Surgery Quality Improvement Consortium. The Academy Health Annual Research Meeting, Chicago, IL June 28-30, 2009.

Sarin E, **Speir A**, Holmes S, Halpin L, Hunt S, Henry L, Ad N. Effect of age on Blood product transfusion following coronary artery bypass grafting surgery. 92nd Annual Meeting of the American Association for Thoracic Surgery, San Francisco, CA, May 2012. (E-POSTER)

Speir A, Henry L, Rongione A, Hunt S, Halpin L, Ad N. Minimally Invasive Isolated Aortic Valve Surgery – Does Valve Type Make a Difference in Outcomes? International Society for Minimally Invasive Cardiothoracic Surgery Annual Scientific Meeting 2012, Los Angeles, CA, June 2012. (PRESENTATION & E-POSTER)

CURRICULUM VITAE

Alan M. Speir, M.D.

XII. Research Experience

Sub-Investigator: Medtronic Valor II – 2007.

Sub-Investigator: Bolton Relay – 2008.

Sub-Investigator: Cook Zenity low Profile – 2008.

Sub-Investigator: Merck V710/003 – 2008.

Sub-Investigator: Medtronic Survival – 2009.

Sub-Investigator: Schering Plough Red-CABG – 2009.

Principal Investigator: Gore Tag 08-03 Study; Evaluation of the TAG Thoracic Endoprosthesis for the treatment of Aneurysm of the Descending Thoracic Aorta – 2009.

Sub-Investigator: Medtronic CoreValve – 2010.

Principal Investigator: NIH CT Surgical Interventions Network; Severe Ischemic Mitral regurgitation (SMR) and Moderate Ischemic Mitral regurgitation (MMR) trials – 2010.