*Curriculum Vitae*

**KEVIN S. CAHILL, MD**

**EMPLOYMENT**

Locums Neurosurgery Attending: March 2018-Current

Cape Fear Valley Health System

Neurosurgery

Fayetteville, NC 28304

Locums Neurosurgery Attending: August 2017-Current

Central Maine Medical Center

Lewiston, ME 04240

Carolina Neurosurgery and Spine Associates: August 2012-June 2017

Complex/Reconstructive Spine Surgery and Minimally Invasive Spine Surgery

Address: 225 Baldwin Avenue, Charlotte, NC 28204

**PROFESSIONAL LICENSURE**

Board Certified American Board of Neurological Surgery, 2015

New Jersey Medical License, 2017

Maine Medical License (temporary), 2017

North Carolina Medical License, 2012

South Carolina Medical License, 2012

**TRAINING**

Post-Residency Fellowship: July 2011-July 2012

University of Miami Miller School of Medicine

Complex and Minimally Invasive Spine Surgery Fellow

Neurosurgery Chief Resident: July 2010 – June 2011

Brigham and Women’s Hospital, Harvard Medical School

Neurosurgery Resident: July 2006 - June 2011

Brigham and Women’s Hospital, Children’s Hospital Boston,

Harvard Medical School

General Surgery Intern: June 2005 - June 2006

Brigham and Women’s Hospital, Harvard Medical School

**MEDICAL EDUCATION**

Harvard School of Public Health

M.P.H 06/2008-06/2009 Clinical Effectiveness

University of Florida, College of Medicine

MD/Ph.D. Program 09/1998-05/2005 MD with Honors 5/2005

Ph.D. 2003 Microbiology

Junior Honors 09/1997-05/2005 Accelerated BS/MD

Medical Program degree program

B.S. with Honors 1999 Biological Sciences

**UNDERGRADUATE EDUCATION**

Columbia University

Undergraduate student 1996-1997

Rice University

Undergraduate student 1995-1996

**PEER REVIEWED PUBLICATIONS**

Toma C, Pittenger MF, Cahill KS, Byrne BJ and Kessler PD. Adult human mesenchymal stem cells differentiate to a cardiomyocyte phenotype following arterial delivery to the murine heart. Circulation, 105: 93-98, Jan. 2002.

Walter GA, Cahill KS, Bloy D, Huard J, Feng H, Sweeney L and Bulte JW. Non-invasive Monitoring of Stem Cell Transfer for Muscle Disorders. Magn Reson Med*.* 51(2):273-7, 2004.

Hodgkins CC, Cahill KS, Seraphine AE, Frost-Pineda K and Gold MS. Adolescent Drug Addiction Treatment and Weight Gain. J Add Dis. 23(2):55-66, 2004.

Bray C, Cahill KS, Peden C, Osher J and Stacpoole, PW. Methylphenidate Does Not Improve Cognitive Function in Healthy Sleep-Deprived Young Adults. J Invest Med. 52(3):192-201, 2004.

Cahill KS, Gaidosh G, Huard J, Silver X, Byrne BJ, Walter GA. Noninvasive monitoring and tracking of muscle stem cell transplants. Transplantation. 78(11):1626-33, 2004.

Cahill KS, Germain S, Byrne BJ, Walter GA. Non-invasive analysis of myoblast transplants in rodent cardiac muscle. Int J Cardiovasc Imaging. 20(6):593-8, 2004.

Walker MC, Levy JK, Mandell TC, Simon GG, Cahill KS, Fernandes PJ, MacCleod JN, and Byrne BJ. Expression of Feline Erythropoietin in Cats Treated with a

Recombinant Adeno-Associated Viral Vector. Am J Vet Res. 66(3):450-6, 2005.

Slotkin JR, Cahill KS, Tharin SA, Shapiro EM. Cellular magnetic resonance imaging: nanometer and micrometer size particles for noninvasive cell localization.

Neurotherapeutics. 4(3):428-33, 2007.

Cahill KS, Chi J, Day AL, Claus EB. Prevalence, complications, and hospital charges associated with use of bone-morphogenetic proteins in spinal fusion procedures. JAMA. 302(1):58-66, 2009.

Cahill KS, Dunn IF, Gunnarsson T, Proctor M. Lumbar Discectomy for Pediatric Patients in the Microsurgical Era - a large single institution series. JNS: Spine. 12(2):165-170, 2010.

Cahill KS, Chi J, Day AL, Claus EB. Trends in survival after surgery for breast cancer metastatic to the brain and spinal column in Medicare patients: a population-based analysis. Neurosurgery. 68(3):705-13, 2011.

Zygourakis CC, Cahill KS, and Proctor MR. Delayed development of os odontoideum after traumatic cervical injury: support for a vascular etiology. JNS: Pediatrics. 7(2):201-4, 2011.

Cahill KS, Chi JH, Groff MW, McGuire K, Afendulis CC, and Claus EB. Outcomes for Single-Level Lumbar Fusion: The Role of Bone Morphogenetic Protein. Spine. Epub ahead of print, Feb 9, 2011.

Cahill KS and Claus EB. Treatment and survival of patients with non-malignant intra-cranial meningioma: results from the Surveillance, Epidemiology, and End-Results program of the National Cancer Institute. JNS. 115(2):259-67, 2011.

Ropper AE, Cahill KS, Hanna JW, McCarthy EF, Gokaslan ZL, and Chi JH. Primary Vertebral Tumors: A Review of Epidemiologic, Histologic, and Imaging Findings. Part 1: Benign Tumors. Neurosurgery*.* 69(6):1171-80, 2011.

Ropper AE, Cahill KS, Hanna JW, McCarthy EF, Gokaslan ZL, and Chi JH. Primary Vertebral Tumors: A Review of Epidemiologic, Histologic, and Imaging Findings. Part 2: Malignant Tumors. Neurosurgery*.* Epub ahead of print, July 14, 2011.

Lin N, Cahill KS, Frerichs KU, Friedlander RM, Claus EB. Treatment of ruptured and unruptured cerebral aneurysms in the USA: a paradigm shift. J Neurointerv Surg. Epub ahead of print, June 23, 2011.

Cahill KS, Levi AD, Cummock MD, Liao W, Wang MY. A Comparison of Acute Hospital Charges Following Tubular Versus Open Micro-Discectomy. World Neurosurgery. Epub ahead of print, Sept 25, 2012*.*

Cahill KS, Martinez J, Wang MY, Vanni S. Motor nerve injuries following the minimimally invasive trans-psoas approach. JNS: Spine. Epub ahead of print, June 2012.

Frenkel MB, Cahill KS, Javahary RJ, Zacur G, Green BA, Levi AD. Fusion rates in multilevel, instrumented anterior cervical fusion for degenerative disease with and without the use of bone morphogenetic protein. JNS: Spine. 18(3):269-73, 2013.

Cahill KS, McCormick PC, Levi AD. A comprehensive assessment of the risk of bone morphogenetic protein use in spinal fusion surgery and postoperative cancer diagnosis. JNS: Spine. 23(1):86-93, 2015.

**BOOK CHAPTERS**

Jacobs WS, Cahill KS, Gold MS. Historical and Conceptual Issues in Dual Diagnosis. Stohler Rudolf (Ed). Biblioteca Psychiatrica, MNO. 171, 2004.

Cahill KS, Belzberg A, Anderson WA. Dorsal Root Entry Zone Lesioning. *In press.*

Wang MY, Cahill KS, Lauryssen C. Anterior Lumbar Interbody Fusion. Surgical Anatomy and Techniques of the Spine, 2nd Edition Elsevier. *In press.*

Cahill KS. Costs associated with minimally invasive spine surgery. Minimally Invasive Spine Deformity Surgery. *In press.*

**OTHER PUBLICATIONS**

Cahill KS, Toma C, Pittenger MF, Kessler P and Byrne BJ. Cell Therapy in the Heart: Cell production, transplantation, and Applications. Methods Mol Biol. 219:73-81, 2003.

Cahill KS. Up & Coming: Stem Cell Therapies. FMA Quarterly Journal. 11-12, Oct. 2003.

Cahill, KS. Enhancement of stem-cell transplantation strategies for muscle regeneration. Ph.D. Thesis, University of Florida, 2003.

Walter GA, Vandenborne K, Byrne BJ, Cahill KS, Frimel TN, and Gaidosh G. MRI Monitoring of Stem Cell Therapy. NHFML Reports. 10(5):19-21, 2003.

Contributor: Medical Neuroscience. Nadeau SE, Ferguson TS, Valenstein E, et al. Saunders, 2004.

Cahill K and Wang MY. More nurses means fewer inpatient deaths. Neurosurgery. 69(4):N15-6, 2011.

Cahill KS and Green BA. Commentary: Surgical management of thoracolumbar neurologic injuries. Spine J. 11(9):893-4, 2011.

Cahill K and Wang MY. DNA-Based Prediction of Scoliosis Curve Progression. World Neurosurgery. 76(5):371.

Cahill K and Wang MY. Book Review: Endoscopic Spine Procedures. World Neurosurgery. *In press.*

Cahill KS and Wang MY. Cost effectiveness of lumbar fusion improves with time. Neurosurgery. *In press.*

Cahill KS and Wang MY. Airport Screening and Spinal Implants. World Neurosurgery. *In press.*

Cahill KS and Wang MY. Evaluating the accuracy of robotic assistance in spine surgery. Neurosurgery. *In press.*

**PRESENTATIONS AND TEACHING ACTIVITES**

Cahill KS and Proctor MR: Surgical results of lumbar microdiscectomy in the pediatric population. Joint Section on Disorders of the Spine and Peripheral Nerves (AANS/CNS) Annual Meeting, Phoenix, AZ 2009.

Cahill KS, Chi JH, and Claus EB: Costs associated with the use of bone morphogenetic protein in spinal fusion. 2010 CNS Annual Meeting, San Francisco, CA 2010.

Cahill KS: Costs associated with minimally invasive spine surgery. Joint Section on Disorders of the Spine and Peripheral Nerves (AANS/CNS) Annual Meeting, Orlando, FL 2012.

Cahill KS and Wang MY: Minimally invasive spine options for trauma. Depuy Synthes Neurotrauma Course. Raynham, MA. 2012

Cahill KS: Thoraco-lumbar trauma classification. Depuy Synthes Neurotrauma Course. Raynham, MA. 2012

Cahill KS: Cervical Spine Trauma. AANS Mid-level provider course. Las Vegas, NV. 2013

Cahill KS: “Stiff” Spine Injuries. Globus Advanced Trauma Techniques course. New Orleans, LA. 2013

Cahill KS: Advances in Minimally Invasive Lateral Approaches. Ethicon seminar. San Antonio, TX, 2013

Cahill KS: Current ideas on adult deformity classification. Depuy Synthes Spine Future Leaders Workshop. Raynham, MA, 2013

Cahill KS: Minimally Invasive TLIF with expandable cages. Globus Medical National Meeting. Cancun, Mexico, 2014

Cahill KS: Management of Thoracolumbar Fractures / Surgical Approaches. Synthes Nursing Continuing Education, Principles of Spinal Disorders, Charlotte, NC, 2014

Cahill KS: “Stiff” Spine Injuries. Globus Advances MIS Corpectomy course. Los Angeles, CA, 2014

Cahill KS: Lateral Lumbar Interbody Fusion: Complications. Globus Skin to Skin Lateral Lumbar Interbody Fusion Course. Miami, FL, 2014

Cahill KS: Lateral Approach: Deformity Correction and ALL Release. SpineWave Practical Applications of Novel MIS Techniques and Technologies. Chicago, IL, 2014

Cahill KS: Approaching the Thoraco-lumbar Junction. Globus Advanced Lateral Lumbar Interbody Fusion Techniques. Atlanta, GA, 2014

Cahill KS: Sagittal Correction with ALL Release. Globus Advanced MIS Techniques. San Diego, CA, 2014

Cahill KS: Challenging Cases. Globus Skin to Skin Lateral Lumbar Interbody Fusion Course. Miami, FL, 2015

Cahill KS: Globus Advanced MIS Corpectomy Course. Los Angeles, CA, 2015

Cahill KS: Globus Complex Cases and Revision Strategies Course. Nashville, TN, 2015

Cahill KS: Expandable Cages for Inter-Body Fusion. Swedish Science Foundation. Seattle, WA 2015

Co-Chariman: MERC Skin-to-Skin Direct Look Course. Miami, FL, 2016

Co-Chairman: Complication: Avoidance and Management Cadaveric Training Course. Globus Medical. Nashville, TN, 2016

**HONORS**

Highest Resident Board Score

Brigham and Women’s Hospital, Department of Neurosurgery, 2009, 2010

Edward R. Woodward Surgical Award, University of Florida

Department of Surgery, College of Medicine, 2005

Medical Guild Memorial Award, University of Florida, 2005

Presidential Recognition, University of Florida, 2005

Medical Scientist Training Program, Full Scholarship

University of Florida, College of Medicine

Co-President and Member, Alpha Omega Alpha

National Honor Medical Society, Beta Chapter, 2005

Alumni Scholarship for Academic Excellence, 2004

University of Florida, College of Medicine

Alumni Fellowship, 2003

University of Florida, Graduate School

USA Secretary’s Award, 2002: Innovation in health promotion & disease prevention.

Depart of Health and Human Services, Washington DC

NIH Training Grant, 2001, 2002

University of Florida, Department of Infectious Diseases

Clinical Research Project Award, 1st Place, 2000

American Medical Student Association, National Meeting

Dr. Posner Book Award: Excellence in cardiovascular physiology, 1999

University of Florida, College of Medicine

Dr. Ross Book Award: Excellence in medical cell and tissue biology, 1998

University of Florida, College of Medicine

Undergraduate Research Fellowship, 1997 (Summer)

University of Connecticut Health Science Center

Dean’s List, 1996, 1997

Columbia University

President’s List, 1995, 1996

Rice University

**GRANT FUNDING / RESEARCH ACTIVITIES**

Pfizer STRIVE Study, 2015-Current

Principal Investigator, CNSA

Staph Aureus Vaccine Randomized Trial for Spine Surgery

Harvard Catalyst Pilot Grant, 2009-2010, $50,000

Title: The impact of bone morphogenetic protein on outcomes and costs of spine surgery

**MEDICAL DEVICE DEVELOPMENT / CONSULTING**

Co-Founder. Power T Handle, LLC. Developing and commercializing a noval power spine driver.

Consultant. Lifenet Health. 2016-Current

Flarehawk Goliath Inter-Body Design team. Integrity Implants. 2016-Current

Lateral Interbody Fusion Surgeon Training Site. Globus Medical 2015-Current

Strategic Advisory Board. Globus Medical. 2015, 2016

Clinical Advisory Board. Ethicon Biosurgery. 2015

Creo Deformity Pedicle Screw Design Team. Globus Medical. 2015-current

Lateral Lumbar Interbody Fusion Roundtable. Globus Medical. 2014

MARS Lateral Retractor Design Team. Globus Medical. 2013-2015

RISE-Lateral Design Team. Globus Medical. 2013-2015

Sniper-2 Design Team. Spinewave. 2014-Current

Viper One Step Consultant. Depuy Synthes Spine. 2012-2013