Sally B. Mountcastle, PhD

University of Kansas Medical Center
3901 Rainbow Blvd, MS 1008
Kansas City, KS 66160
(913) 250-5044
smountcastle@kumc.edu

CURRENT POSITION

Adjunct Assistant Professor 2009-	University of Kansas Medical Center Department of Preventive Medicine & Public Health

EDUCATION

Doctor of Philosophy 2001-2004	University of North Carolina, Chapel Hill, NC Department of Epidemiology, School of Public Health Dissertation: A Spatial and Descriptive Analysis of the Social and Sexual Network Patterns of Sexually Transmitted Infections in Cumberland County and Fort Bragg, North Carolina.
Master of Science in Public Health 1999-2001	University of North Carolina, Chapel Hill, NC Department of Epidemiology, School of Public Health Thesis: Nonsteroidal Anti-inflammatory drugs, apoptosis, and colorectal adenomas.
Bachelor of Arts 1992-1996	Miami University, Oxford OH Microbiology Concentration in Chemistry and Zoology

AWARDS AND HONORS

National Research Service Award (NRSA) pre-doctoral Trainee in the Division of Infectious Diseases, the University of North Carolina at Chapel Hill, 2002-2003

AOSSM (Team) winner of the 2007 NCAA Research Award for *The Epidemiology of Shoulder Instability in a Young, Athletic Population*, 2007.

GRANTS

Past:

NIH R01 — Marshall SW (PI) — January 2005-December 2010
Epidemiology of Jump-Landing Movements and ACL Injury; a multi-center study.
Role: Collaborator

Orthopaedic Research and Education Foundation — Nelson BJ (PI) — July 2005-December 2006
Effect of a Military Movement Training Program on Lower Extremity Muscle Function.
Role: Co-Investigator

Orthopaedic Research and Education Foundation. — Owens BD (PI) — July 2006-June 2009
Risk factors for shoulder instability.
Role: Co-PI

PUBLICATIONS

Martin C, Connelly A, Keku TO, **Mountcastle SB**, Galanko J, Woosley JT, Schliebe B, Lund PK, Sandler RS. Nonsteroidal Anti-inflammatory drugs, apoptosis, and colorectal adenomas. *Gastroenterology*. 2002;123:1770-77.

Mountcastle SB, Nelson BJ. Epidemiology. AAOS Residents' E-Newsletter. June 2005.

Mountcastle SB, Posner MA, Kragh J, Taylor DC. Gender Differences in Anterior Cruciate Ligament Injury Vary With Activity: Epidemiology of Anterior Cruciate Ligament Injuries in a Young, Athletic Population. *Am J Sports Med*. 2007 Oct;35(10):1635-42.

Owens BD, Duffey ML, Nelson BJ, DeBerardino TM, Taylor DC, **Mountcastle SB.** The incidence and characteristics of shoulder instability at the United States Military Academy. *Am J Sports Med*. 2007 Jul;35(7):1168-73.

Owens BD, **Mountcastle SB**, Dunn WR, DeBerardino TM, Taylor DC. Incidence of ACL Tears Among Active Duty U.S. Military Servicemen and Servicewomen. *Mil Med* 2007 Jan;172(1):90-1.

Owens BD, **Mountcastle SB**, White DW. Racial differences in tendon rupture incidence. *Int J Sports Med*. 2007 Jul;28(7):617-20.

Owens BD, Cameron KL, Angel J, **Mountcastle SB**, Nelson BJ. Incidence of Glohumeral Instability in Collegiate Athletes. *Am J Sports Med*. 2009 Sep;37(9):1750-4.

Scher D, Belmont P, **Mountcastle SB,** Owens BD. The Incidence of Hip Osteoarthritis in active duty US Military Servicemembers. *Arthritis Care Res*. 2009 Apr; 61(4):468-75.

Taylor DC, DeBerardino TM, Nelson BJ, Tenuta J, Duffey ML, **Mountcastle SB**. Patellar Tendon versus Hamstring Tendon Autografts for Anterior Cruciate Ligament Reconstruction: A Randomized Controlled Trial using Similar Femoral and Tibial Fixation Methods. *Am J Sports Med* 2009 Oct;37(10):1946-57.

White DW, Wenke JC, Mosely DS, **Mountcastle SB,** Basamania CJ. Incidence of Major Tendon Ruptures and Anterior Cruciate Ligament Tears in US Army Soldiers. *Am J Sports Med*. 2007 Aug;35(8):1308-14.

Wolf JM, Dawson L, **Mountcastle SB**, Owens, BD. Incidence of Scaphoid Fracture in a Military Population. *Injury*. 2009 Jun 15.

Wolf JM, **Mountcastle SB**, Owens BD. Incidence of Carpal Tunnel Syndrome in the US Military Population. *Hand (NY).* 2009 Sep;4(3):289-93.

ABSTRACT PRESENTATIONS AND POSTERS

Beardmore AA, Tenuta J, Nelson BJ, **Mountcastle SB,** Taylor DC. A comparison of anterior cruciate ligament reconstructions among new cadets at a United States military academy. Poster presentation at the annual meeting of the Society of Military Orthopaedic Surgeons, December 2004.

Beardmore AA, Tenuta J, Nelson BJ, **Mountcastle SB,** Taylor DC. A comparison of graduation rates and performance over 4 years among cadets with anterior cruciate ligament reconstruction prior to enrollment at a United States military academy. Podium presentation at the annual meeting of the Society of Military Orthopaedic Surgeons, December 2004.

Hospodar S, Tokish J, Thurman J, **Mountcastle SM.** Commonly used Outcome Measures: A Systematic Review for the Development of a Military Orthopaedic Outcomes Database. Podium presentation at the annual meeting of the Society of Military Orthopaedic Surgeons, December 2005.

Mountcastle SB, Weir SS, Serre ML, Ryder RW. A geographic and descriptive analysis of high STI transmission areas in Cumberland County, North Carolina. Poster presentation at the International Society for Sexually Transmitted Disease Research, Ottawa, Canada, July 2003.

Nelson BJ, Owens, BD, Duffey ML, **Mountcastle SB,** DeBerardino TM. Pathoanatomy Associated with Subluxations of the Shoulder. Presentation at International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, May 2007.

Owens, BD, Nelson BJ, Duffey ML, **Mountcastle SB,** DeBerardino TM. The Epidemiology of Shoulder Instability in a Young Athletic Population. Podium presentation and NCAA award winner at American Orthopaedic Society for Sports Medicine, July 2007.

Owens, BD, Nelson BJ, Duffey ML, **Mountcastle SB,** DeBerardino TM. Pathoanatomy Associated with Subluxations of the Shoulder. Accepted as an E-Poster for the Arthroscopy Association of North America Annual Meeting, May 2006.

Owens BD, Nelson BJ, Duffey ML, **Mountcastle SB,** Campbell SE, Taylor DC, DeBerardino TM. Traumatic Anterior Shoulder Subluxations. Podium presentation at Northeast Fellows' Sports Medicine Conference at West Point, May, 2006.

Owens BD, **Mountcastle SB,** White D. Incidence Of Major Tendon Rupture Among Black And White US Service-members. Poster for the 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, March 2006.

Owens BD, Nelson BN, Duffey ML, **Mountcastle SB**, DeBerardino TM. Pathoanatomy Associated with Subluxations of the Shoulder: Physical Examination, Magnetic Resonance Imaging, and Arthroscopic Findings in First-time, Traumatic Anterior Subluxations. Poster presentation at the annual meeting of the Society of Military Orthopaedic Surgeons, December 2005.

Owens BD, Dunn WR, **Mountcastle SB,** Taylor DC. Incidence of ACL Tears Among Active Duty U.S. Military Servicemen and Women, for presentation. Podium presentation at the annual meeting of the Society of Military Orthopaedic Surgeons, December 2004.

Posner M, Taylor DC, **Mountcastle SB.** The epidemiology of anterior cruciate ligament injury in men and women at a United States military academy. Podium presentation at the annual meeting of the Society of Military Orthopaedic Surgeons, December 2004.

Svoboda SW, **Mountcastle SB,** Taylor DT. The Anatomic Variability of the "Rotator Interval Capsule": A Comparison of Arthroscopic and Open Surgical Techniques. Podium presentation at American Orthopaedic Society for Sports Medicine, June 2006.

Svoboda SW, **Mountcastle SB,** Taylor DT. The Anatomic Variability of the "Rotator Interval Capsule": A Comparison of Arthroscopic and Open Surgical Techniques. Podium presentation at Arthroscopy Association of North America Annual Meeting, May 2006.

Svoboda SW, Mountcastle SB, Taylor DT. The Anatomic Variability of the "Rotator Interval Capsule": A Comparison of Arthroscopic and Open Surgical Techniques. Podium presentation at the annual meeting of the Society of Military Orthopaedic Surgeons, December 2005.

Taylor DC, DeBerardino TM, Nelson BJ, Tenuta J, Stoneman PD, **Mountcastle SB.** A Comparison of Patellar Tendon and Hamstring Tendons for ACL Reconstruction using Similar Femoral and Tibial Fixation Methods:
A Randomized Clinical Trial. Podium presentation at American Orthopaedic Society for Sports Medicine, June 2006.

Taylor DC, DeBerardino TM, Nelson BJ, Tenuta J, Stoneman PD, **Mountcastle SB.** A Comparison of Patellar Tendon and Hamstring Tendons for ACL Reconstruction using Similar Femoral and Tibial Fixation Methods:
A Randomized Clinical Trial. Podium presentation at ACL Working Group, April 2006.

Taylor DC, DeBerardino TM, Nelson BJ, Tenuta J, Stoneman PD, **Mountcastle SB.** A Comparison of Patellar Tendon and Hamstring Tendons for ACL Reconstruction using Similar Femoral and Tibial Fixation Methods: A Randomized Clinical Trial. Podium presentation at European Society for Sports Traumatology Knee Surgery and Arthroscopy, May 2006.

Taylor DC, DeBerardino TM, Nelson BJ, Tenuta J, Stoneman PD, **Mountcastle SB.** A Comparison of Patellar Tendon and Hamstring Tendons for ACL Reconstruction using Similar Femoral and Tibial Fixation Methods: A Randomized Clinical Trial. Podium presentation at the annual meeting of the Society of Military Orthopaedic Surgeons, December 2005.

Toye MP, **Mountcastle SB**. Adherence to HIV Therapies: Utilizing Adherence Modules in PACTG Protocols. Podium presentation at the 26th Annual Pediatric AIDS Clinical Trials Group Conference, 1998

White DW, Wenke JC, **Mountcastle SB.** Incidence and Mechanism of Injury of Major Tendon Ruptures in U.S. Army Soldiers. Poster presentation at the annual meeting of the Society of Military Orthopaedic Surgeons, December 2005.

Wolf JM, Dawson L, **Mountcastle SB**, Owens, BD. Incidence of Scaphoid Fracture in a Military Population. Orthopaedic Trauma Association, Denver, CO, October, 2008

TEACHING

2009-current
Adjunct Assistant Professor, *University of Kansas School of Medical, Department of Preventive Medicine and Public Health, Kansas City, KS*
Teaching Terrorism, Emergency Preparedness, and Response for Masters in Public Health program

2007-2008
Adjunct Professor, *University of Texas – El Paso, El Paso, TX*
Taught Epidemiology, Research Methods, and Biostatistics for the Masters in Public Health program

2002
Teaching Assistant, *Department of Epidemiology, University of North Carolina at Chapel Hill.*
Taught EPID 160, *Principles of Epidemiology*, to graduate students in the School of Public Health. Subjects taught include outbreak investigation, measuring disease using incidence and prevalence, natural history of disease, population screening, intervention studies, case-control studies, cohort studies, cross-sectional studies, selection and information bias, confounding, and data analysis and interpretation.

Guest Lectures and Seminars:

Epidemiology, 2004. Guest lecturer for Biology class, United States Military Academy.
Epidemiology and Statistics, 2004. Seminar for faculty, Department of Mathematics, United States Military Academy.
Principles of Epidemiology, 2003. Presentation during Friday Academic Lecture Series, Department of Orthopaedics, Keller Army Community Hospital.

PROFESSIONAL EXPERIENCE

2006-current
Statistical Consultant, *Beaumont Army Medical Center, El Paso, TX, Keller Army Community Hospital, West Point, NY*
Serve as statistical consultant on various epidemiologic sports medicine and orthopaedic research projects. Assist with the writing of the methods, results, and discussion portions of peer-reviewed research papers.

2004-May 2006
Research Director, *West Point Sports Medicine Fellowship, Keller Army Hospital, West Point, NY*

Served as principal investigator and collaboratively as associate investigator to plan, initiate, direct, and oversee original musculoskeletal and sports medicine research. Conducted appropriate statistical analyses for interpretation of study findings using a variety of advanced mathematical and statistical techniques, produced reports for publication in scientific peer reviewed journals, and presented research findings at military briefings, conferences, workshops, and meetings. Identified and wrote grants appropriate to the mission of the West Point Orthopaedic Fellowship program. Oversaw contracts, grants, awards, and cooperative agreements with full responsibility for carrying out all required monitoring and management duties. Member of the Institutional Review Board at Keller Army Community Hospital.

2003, 2007-current
Research Assistant/Associate, *The NC Center for Public Health Preparedness, Chapel Hill, NC*
Current work: Curriculum Developer for Central American Field Epidemiology Training Program. Past work: Created Internet-based learning modules for public health preparedness and disaster management training. Organized educational programs on outbreak investigations, surveillance, and new and emerging infectious diseases for local health departments. Conducted focus groups among law enforcement and public health officials.

2001-2002
Research Assistant, *The NC Center for Public Health Preparedness, Chapel Hill, NC*
Principle Investigator and Project Manager of a study at the Cumberland County Health Department and the Ft. Bragg Epidemiology Disease Control clinic designed to investigate the spatial distribution of STIs in Cumberland County to improve the understanding of the occurrence, trends, social/sexual networking, and spatial distribution patterns associated with STI acquisition in Cumberland County.

2000 –2001
Research Assistant, *Worldwide Epidemiology Department at GlaxoSmithKline, Research Triangle Park, NC*
Conducted literature reviews and prepared abstracts, presentations, and papers for FDA and internal review on functional dyspepsia, irritable bowel syndrome, complications of constipation, risk, gallstones, gastropathy, NSAIDs, stercoral ulcerations, and other GI-related topics. Prepared publications on epidemiologic research related to these topics. Performed data analyses, as needed.

1999- 2000
Research Assistant, *North Carolina Prostate Cancer Screening Study, University of North Carolina, Chapel Hill, North Carolina*
Abstracted death certificates to identify primary and secondary causes of death and next-of-kin of cases included in the study. Conducted telephone interviews with family members of cases and of controls.

1997 –1999
Senior Associate Clinical Trials Specialist, *Pediatric AIDS Clinical Trials Group, Social & Scientific Systems, Rockville, Maryland; NIAID Cooperative Agreement*
Assisted in managing, developing, and writing pediatric HIV clinical trials through FDA submission. Participated on protocol team calls to discuss patient accrual, toxicities, safety, and outcomes. Served as information management consultant for the PACTG Immunology/Immune-Based Therapy, Vaccine, Nutrition, Adherence to Therapy, and Community Constituency Committees.

1996- 1997
Research and Development Budget Analyst, *U.S. Navy AEGIS Program, Logicon Syscon, Inc., Crystal City, Virginia*
Supported Naval Sea Systems Command (NAVSEA) Program Executive Office for Surface Combatants/AEGIS Program (PEO SC/AP), Office of Program and Budget Management. Tracked R&D budget issues, prepared budget exhibits, assisted in the defense of R&D budget before Congressional Staffers for AEGIS Weapon System. Attended and reported on Congressional hearings pertaining to Navy and Marine Corps budgets and issues