

## CURRICULUM VITAE

### **PERSONAL DATA**

Name: **Edwin E Spencer Jr MD**

### **EDUCATION**

1984-1988 John T Hoggard High School, Wilmington, N.C.  
1988-1992 North Carolina State University, Raleigh, N.C.  
Zoology/Premed  
Summa Cum Laude  
Duke University, Durham, N.C.  
M.D.

### **POSTDOCTORAL TRAINING**

1996-1997 Surgical Internship, Department of Surgery, The University of Michigan Medical Center, Ann Arbor, Michigan  
1997-2001 Orthopaedic Surgery Residency, Section of Orthopaedic Surgery, The University of Michigan Medical Center, Ann Arbor, Michigan  
2001-2002 Shoulder and Elbow Surgery Fellowship  
Cleveland Clinic Foundation, Cleveland, OH

### **CLINICAL/HOSPITAL APPOINTMENTS**

2002- Staff Surgeon, The University of Tennessee, Knoxville, TN  
2002- Staff Surgeon, Orthopaedic Surgery, St Mary's Health System, Knoxville, TN  
Staff Surgeon, East Tennessee Children's Hospital  
Knoxville, TN  
  
2002- Staff Surgeon, Fort Sanders West Outpatient Surgery Center  
Knoxville, TN

### **CONSULTING POSITIONS**

2002- Consulting Team Physician, Carson Newman College  
Jefferson City, TN

### **SCIENTIFIC ACTIVITIES**

#### **Reviewer of Manuscripts**

Journal of Bone and Joint Surgery 2003-  
Clinical Orthopaedics and Related Research 2003-  
Journal of Engineering in Medicine 2006-  
Journal of Shoulder and Elbow Surgery 2007-

### **National Committee Memberships**

- 2002- Committee Member, Exhibit Committee, Mid-America Orthopaedic Association
- 2003- Committee Member, Nominating Committee, Mid-America Orthopaedic Association
- 2003- Committee Member, Upper Extremity Evaluation Subcommittee, American Academy of Orthopaedic Surgeons (developing the Upper Extremity Self Assessment Exam)

### **GRANT SUPPORT-EXTRAMURAL**

#### **Recent:**

- Mid-America Orthopaedic Association Resident Research Grant. Biomechanical Evaluation of Reconstruction of the Sternoclavicular Joint. Awarded to Edwin Spencer, M.D., John E. Kuhn, M.D., Sponsor. December 1, 2000-November 30, 2001, \$5,000
- Katherine Wolcott Walker Resident Research Award. Orthopaedic Research and Education Foundation. Biomechanics of Reconstructions for Sternoclavicular Joint Instability. Awarded to Edwin Spencer, M.D, Principal Investigator and, John E. Kuhn, M.D., Co-Primary Investigator. January 1, 2001-December 31, 2001, \$15,000.
- Research Grant awarded from DePuy for evaluation of the effect of prosthetic humeral version on shoulder stability with glenoid component retroversion. (published in JBJS). Principle investigator Edwin E Spencer Jr MD and Co-Primary Investigator Joseph P Iannotti MD PhD. December 12, 2001, \$50,000.

**Current:** Mid-America Traveling Fellowship. Awarded February 2005, \$5000.

#### **Pending:**

### **GRANT SUPPORT-INTRAMURAL**

**Recent:** None

**Current:** Knoxville Orthopaedic Clinic Shoulder and Elbow Center Research Foundation

**Pending:** None

### **NON-COMPETITIVE FINANCIAL SUPPORT-COLLABORATIONS FOR RESEARCH**

**Recent:** None

**Current:** None

**Pending:** None

## **CERTIFICATION AND LICENSURE**

Board Certification: USMLE Part I Passed June 1995  
USMLE Part II Passed March 1996  
USMLE Part III Passed May 1997  
American Board of Orthopaedic Surgery, Board Certified,  
July, 2004.

Medical License: Tennessee 2003-present

## **MILITARY SERVICE**

None

## **HONORS AND AWARDS**

1985 Eagle Scout  
1991 Most Appreciated Brother, Alpha Epsilon Medical Fraternity  
1992 Gamma Delta Honor Society Scholar Award  
1998 Bronze Beeper Award (Awarded for excellence in resident teaching  
by peers) University of Michigan Orthopaedic Surgery  
Department, Ann Arbor, MI  
2001 James Baril Research Award  
2001 Katherine Wolcott Walker Research Award  
2003 Nominated for the Charles S Neer Award for Spencer EE,  
Valdevita, Kambic H, Brems JJ, Iannotti JP. The effect of  
humeral component anteversion on shoulder stability with glenoid  
component retroversion.  
2007 Inducted into the American Shoulder and Elbow Society

## **MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES**

1989-1992 Alpha Epsilon Delta Medical Fraternity  
2001- Member Mid-America Orthopaedic Association  
2001- Member Michigan Orthopaedic Society  
2002- Member Tennessee Orthopaedic Society  
2004- Fellow of the American Academy of Orthopaedic Surgeons  
2005- Member of the Association of Clinical Elbow & Shoulder Surgeons  
2006- Member of the American Shoulder and Elbow Surgeons Society

## **TEACHING ACTIVITIES-THE CLEVELAND CLINIC FOUNDATION**

### **Lectures**

- “Rotator cuff interval: What the Hell Is It?” Presented at the Cleveland Clinic Foundation Orthopaedic Grand Rounds April 2002.
- “Elbow Instability.” Presented at the Cleveland Clinic Foundation Orthopaedic Grand Rounds May 2002.

## **EXTRAMURAL INVITED PRESENTATIONS**

### **Invited Local Lectureships and Presentations**

- “Preventing Costly Upper Extremity Injuries at Work.” Presented at St. Mary’s Medical Center Orthopaedic Community Outreach and Education 5/03.
- “Shoulder arthroplasty: History and Techniques” Presented at Update for Primary Care Physicians in Knoxville, TN September 2003.
- “Will your shoulder ruin your summer? An overview of common shoulder problems.” Presented at the University Club for St Mary’s Health System on June 17, 2004.
- “Arthroscopic rotator cuff repairs and rehabilitation” Presented to SEO Physical Therapists on 4/10/06.
- “What is new in shoulder surgery” Presented at the University Club for St Mary’s Health System on July 7, 2006.

### **Invited National and International Lectureships and Presentations**

- “Total Joint Arthroplasty.” Presented at the Johnson & Johnson Training Center in Princeton, NJ October 1999 and July 2000.
- “Tendon Transfers for the Irreparable Rotator Cuff Tear.” Presented at the Biannual University of Michigan Shoulder Symposium in Ann Arbor, MI in September 2002.
- “How to Perform Arthroscopic SLAP and Bankart Repairs.” Cadaveric workshop at the Baptist Ambulatory Surgery Center in Nashville, TN on 6/24/03.
- “Arthroscopic rotator cuff repairs. The good bad and the ugly” Presented at the University of Michigan Badgley Day in Ann Arbor, MI on 10/29/2004.
- “Elbow Arthroscopy: Applications to the athletes elbow.” Presented at the Vanderbilt Shoulder Symposium in Nashville, TN on 11/19/2004.
- “Simple elbow dislocation: Diagnosis, clinical pathology, and management.” Presented at AAOS/ASES Surgical Techniques and Management of the Shoulder and Elbow #3700 in Rosemont, IL on Jan 28-30, 2005.
- “Open exposures of the elbow.” Presented at AAOS/ASES Surgical Techniques and Management of the Shoulder and Elbow #3700 in Rosemont IL on Jan 28-30, 2005.
- “Laying the foundation – Open rotator cuff repair/Open instability repair.” Presented at AAOS/ASES Surgical Techniques and Management of the Shoulder and Elbow #3700 in Rosemont, IL on Jan 28-30, 2005.
- “Arthroscopic rotator cuff repairs.” Presented in Naples, FL at Arthrex shoulder instructional meeting September 12, 2005.
- “Reverse total shoulder arthroplasty: Indications and complications.” Presented at the Second Annual Vanderbilt Shoulder Symposium in Nashville, TN on Oct 7, 2005.
- “Arthroscopic rotator cuff repairs: The good bad and the ugly.” Presented in Naples, FL at Arthrex shoulder instructional course May 22, 2006.
- “SLAP Lesions” Presented in Naples, FL at Arthrex shoulder instructional course May 22, 2006.

- “Reverse shoulder arthroplasty” Presented at the University of Michigan Badgley Day 10/27/06 .
- “Partial thickness rotator cuff tears” Presented at the 3<sup>rd</sup> Annual Vanderbilt Shoulder Symposium 11/3/06.
- “Reverse shoulder arthroplasty” Presented at the 1<sup>st</sup> Annual KOC Shoulder Symposium 11/10/06.
- “Two row rotator cuff repairs” Presented at the 1<sup>st</sup> Annual KOC Shoulder Symposium 11/10/06.
- “Evaluation and treatment of pectoralis major tendon injuries” Presented at the 25<sup>th</sup> Annual Mid-America Association meeting April 2007
- “Function and treatment of pathology of long head of the biceps tendon” Presented at the 25<sup>th</sup> Annual Mid-America Association meeting April 2007.

#### **Extramural Physician Education Material and Continuing Education Conferences**

Course Faculty. Shoulder and Elbow: The Essentials at the Orthopaedic Learning Center in Rosemont, IL from October 31, 2003 through November 2, 2003. Sponsored by the AAOS and ASES.

Course Faculty. The Shoulder: Open and Arthroscopic Techniques at the Orthopaedic Learning Center in Rosemont, IL from May 30, 2003 through June 1, 2003. Sponsored by the AAOS and ASES.

Course Faculty. Surgical Techniques and Management of the Shoulder and Elbow #3700 at the Orthopaedic Learning Center in Rosemont, IL on Jan 28-30, 2005. Sponsored by the AAOS and ASES.

Course Faculty. AAOS/ASES Shoulder Arthroplasty: Surgical Indications and Techniques at the Orthopaedic Learning Center in Rosemont, IL on Oct 6-7, 2006. Sponsored by the AAOS and ASES.

#### **Program Chair/Committee Member for CME Courses**

Course Director. First Annual Knoxville Orthopaedic Clinic Shoulder Symposium. November 10, 2006.

Program Director. “What is new in shoulder surgery?” Shoulder Symposium held at the 24<sup>th</sup> Annual Mid-America Meeting in San Antonio, TX on April 22, 2006.

#### **Presentations-Papers, National**

1. **Spencer EE**, Vail TP. The effect of a bucket-handle tear on meniscal hoop strain in a dynamic flexion model. Presented at the North Carolina Orthopaedic Association Annual Meeting in Winston Salem, NC 1992.

2. **Spencer EE**, Vail TP. The effect of a bucket-handle tear on meniscal hoop strain in a dynamic flexion model.. Presented at the Duke University Annual Research Society Meeting in Durham, NC 1992.
3. **Spencer EE**, Bierman JS, Femino JA. Osteoid osteoma of the fifth metatarsal: Case report and literature review. Presented at the Michigan Orthopaedic Society Annual Meeting in Macinac Island, MI, June 2000.
4. **Spencer EE**, Jebson PJJ. Flexor tendon sheath ganglia. Results of surgical resection. Presented at Michigan Orthopaedic Society Annual Meeting in Macinac Island, MI, June 2000.
5. **Spencer EE**, Jebson PJJ. Flexor tendon sheath ganglia. Results of surgical resection. Presented at the Residents and Fellows Conference of the American Society for Surgery of the Hand in Seattle, WA on October 4, 2000.
6. **Spencer EE**, Jebson PJJ. Flexor tendon sheath ganglia. Results of surgical resection. Presented at the Mid-America Orthopaedic Association Meeting in Amelia Island, FL in 2001.
7. **Spencer EE**, Kuhn JE, Huston LJ, Carpenter JE, Hughes RE. Ligamentous restraints to anterior and posterior translation of the sternoclavicular joint. Presented at the 19<sup>th</sup> Annual Mid-America Orthopaedic Association Meeting in Amelia Island, Florida, 2001.
8. **Spencer EE**, Kuhn JE, Huston LJ, Carpenter JE, Hughes RE. Ligamentous restraints to anterior and posterior translation of the sternoclavicular joint. Presented at the 68<sup>th</sup> Annual American Academy of Orthopaedic Surgeons Meeting in San Francisco, C A, 2001.
9. Tamurian R, **Spencer EE**, Wojtys E. The role of a rthroscopic synovectomy in the management of hemarthrosis in hemophilia patients: Financial perspectives. Presented at the Annual Arthroscopy Association of North America Meeting in Seattle, WA, April 2001.
10. Tamurian R, **Spencer EE**, Wojtys E. The role of a rthroscopic synovectomy in the management of hemarthrosis in hemophilia patients: Financial perspectives. Presented at the Michigan Orthopaedic Society Annual Meeting in Macinac Island, MI, June 2000.
11. **Spencer EE**, Valdevit A, Kambic H, Brems JJ, Iannotti JP. The effect of humeral component anteversion on shoulder stability with glenoid component retroversion. Presented at the 21<sup>st</sup> Annual Mid-America Meeting in Hilton Head, SC, April 2003.

12. **Spencer EE**, Valdevit A, Kambic H, Brems JJ, Iannotti JP. The effect of humeral component anteversion on shoulder stability with glenoid component retroversion. Presented at American Academy of Orthopaedic Surgeons meeting in San Francisco, CA 2003.
13. **Spencer EE**, Valdevit A, Kambic H, Brems JJ, Iannotti JP. The effect of humeral component anteversion on shoulder stability with glenoid component retroversion. Presented at International Congress of Shoulder Surgery in Washington, DC 2003.
14. Iannotti JP, **Spencer EE**. Glenohumeral arthrodesis for failed prosthetic arthroplasty with severe bone, rotator cuff and deltoid deficiency. Presented at the 19<sup>th</sup> Annual Open Meeting for the American Shoulder and Elbow Surgeons in New Orleans, LO, February 2003.
15. Iannotti JP, **Spencer EE**. Glenohumeral arthrodesis for failed prosthetic arthroplasty with severe bone, rotator cuff and deltoid deficiency. Presented at the 70<sup>th</sup> Annual American Academy of Orthopaedic Surgeons Meeting in New Orleans, LO, February 2003.
16. Kline M, **Spencer EE**, Iannotti JP, Recht M. Glenoid labral tear: Understanding appearances on MR images through the use of computer generated images. Presented at the Annual Radiology Society of North America Meeting 2003.
17. **Spencer EE**, Kuhn JE, Huston LJ, Hughes RE. Biomechanical analysis of reconstructions for sternoclavicular instability. Presented at the 19<sup>th</sup> Annual Meeting of the American Shoulder and Elbow Surgeons in Pebble Beach, CA, November 2002.
18. **Spencer EE**, Kuhn JE, Huston LJ, Hughes RE. Biomechanical analysis of reconstructions for sternoclavicular instability. Presented at the 21<sup>st</sup> Annual Mid-America Meeting in Hilton Head, SC, April 2003.
19. Tisdale A, Morgan M, **Spencer EE**. Distal biceps tendon repair: Is physical therapy necessary?. Presented at the annual 2006 Mid America Orthopaedic Association meeting in San Antonio, TX in April 2006.
20. Kuhn JE, Dunn WR, Ma B, Wright RW, Jones G, **Spencer EE**, Wolf B, Safran M, Spindler KP, McCarty E, Kelly B, Holloway B. Interobserver agreement in the classification of rotator cuff tears. Presented at the AAOS Shoulder and Elbow Specialty Day on 2/17/07.
21. **Spencer EE**, Dunn WR, Wright RW, Wolf BR, Spindler KP, McCarty EC, Ma CB, Jones G, Safran M, Kuhn JE. Interobserver agreement in the classification of rotator cuff tears using magnetic resonance imaging. Presented at the 25<sup>th</sup> Annual Mid-America meeting April 2007.

22. Spencer EE. Partial Thickness Rotator Cuff Tears. Presented at the 4<sup>th</sup> Annual Vanderbilt Shoulder Symposium Nov 9<sup>th</sup> 2007 and ACCESS meeting.

## **COMMITTEE AND ADMINISTRATIVE SERVICE**

### **National**

- 2006 Program Director. "What is new in shoulder surgery" Shoulder Symposium held at the Annual Mid-America Meeting in San Antonio, TX on April 22, 2006.

### **Community Service**

- 1994-1996 Assistant Scoutmaster in Durham, NC  
2001- Member of Executive Board for the Great Smoky Mountain Council for the Boy Scouts of America, Knoxville, TN.  
2001- Member of Sevier Heights Baptist Church, Knoxville, TN

## **BIBLIOGRAPHY**

### **Completed Publications in Scientific Journals**

#### **Peer Reviewed Publications**

1. **Spencer EE**, Chissell HR, Spang JT, Feagin JA. Behavior of sutures used in anterior cruciate ligament reconstructive surgery. *Knee Surg, Sports Traumatol, Arthrosc* 1996; 4(2): 84-88.
2. King JC, **Spencer EE**. Lateral ligamentous instability: Techniques of repair and reconstruction. *Techniques in Orthopaedics* 2000; 8: 93-104.
3. **Spencer EE**, Bierman JS, Femino, JA. Osteoid osteoma of the fifth metatarsal: A case report and literature review. *Foot and Ankle Surgery* 2002; 8: 71-78.
4. **Spencer EE**, Kuhn JE, Huston LJ, Carpenter JE, Hughes RE. Ligamentous restraints to anterior and posterior translation of the sternoclavicular joint. *Journal of Shoulder and Elbow Surgery* 2002; 11: 43-47.
5. Tamurian R, **Spencer EE**, Wojtys E. The role of arthroscopic synovectomy in the management of hemarthrosis in hemophilia patients: Financial perspectives. *Arthroscopy* 2002; 18(7): 789-94.
6. **Spencer EE**, Iannotti JP. Commentary regarding the addition of epinephrine to irrigation fluid during arthroscopic shoulder surgery reduced bleeding and increased visualization. *J Bone Joint Surg* 2002 May;84-A (5): 885
7. **Spencer EE**, King JC. A simple technique for coronoid fixation. *Techniques in Shoulder and Elbow Surgery* 2003; 4(1): 1-3.

8. **Spencer EE**, Kuhn JE. Biomechanical Analysis of reconstructions for sternoclavicular joint instability. *J Bone Joint Surg Am.* 2004 Jan; 86-A (1): 98-105.
9. Derwin K, Androjna C, **Spencer EE**, Safran O, Bauer TW, Hunt T, Caplan A, Iannotti JP. Porcine small intestine submucosa as a flexor tendon graft. *CORR* 2004; 423: 245-252.
10. **Spencer EE**, Valdevit A, Kambic H, Brems JJ, Iannotti JP. The effect of humeral component anteversion on shoulder stability with glenoid component retroversion. *J Bone Joint Surg Am.* 2005 April; 87A (4): 808-814.
11. **Spencer EE**, Brems JJ. A simple technique for management of locked posterior shoulder dislocations: Report of two cases. *J Shoulder Elbow Surg* 2005; 14(6): 650-652.
12. Iannotti JP, **Spencer EE**, Winter U, Deffenbaugh D, Williams G. Prosthetic positioning in total shoulder arthroplasty. *J Shoulder Elbow Surg* 2005; 14: 111S-121S.
13. Kuhn JE, Dunn WR, Ma B, Wright RW, Jones G, **Spencer EE**, Wolf B, Safran M, Spindler KP, McCarty E, Kelly B, Holloway B. Interobserver agreement in the classification of rotator cuff tears. *Am J Sports Medicine* 2007;
14. **Spencer EE**. Journal Scan: Journal of Shoulder and Elbow Surgery January 2006-June 2006. *Clin Orthop Relat Res* 2007; 458: 243-247.
15. **Spencer EE**. Treatment of grade III acromioclavicular joint injuries: A systematic review. *Clin Orthop Relat Res.* 2007;455:38-44.
16. **Spencer EE**. Update on radiology studies of the elbow. *Current Opinion in Orthopaedics* 2007; 18(4): 399-402.
17. Jebsen P, **Spencer EE**. Flexor tendon sheath ganglions: Results of surgical excision. *Hand.* 2007; Vol 2; Num 3; 94-100.
18. **Spencer EE**. Double row double lamina arthroscopic rotator cuff repair. *Techniques in Shoulder and Elbow Surgery.* 2007; 8(3); 135-140.
19. **Spencer EE**. Partial-thickness articular surface rotator cuff tears: An all-inside repair technique. *Techniques in Shoulder and Elbow Surgery.* 2007; 8(4); 180-184.
20. **Spencer EE**, Dunn WR, Wright RW, Jones G, Wolf B, Ma CB, McCarty E, Safran M, Spindler KP, Kuhn JE. Interobserver agreement in the classification of rotator cuff tears using magnetic resonance imaging. *Am J Sports Med.* 2008; 36; 99-103.

#### **Manuscripts Accepted for Publication**

#### **Manuscripts Submitted for Publication**

**Spencer EE**, Tisdale A, Ivy RE. Is physical therapy necessary for distal biceps tendon repairs? Submitted to JSES.

#### **Articles in Preparation for Submission**

#### **Non-Peer Reviewed Publications and Invited Manuscripts**

1. **Spencer EE**. Spencer's salt brine shrimp. *Saltwater Flyfisherman.* April-May 1999.

### **Multimedia-Educational Videos-Physician Education Material**

Spencer EE. Tendon Transfers for the Irreparable Rotator Cuff Tear. Presented at the Biannual University of Michigan Shoulder Symposium, September 2002. Available and published by Audio Digest Orthopaedics Vol. 26, Issue 3, March 2004.

Spencer EE. Open exposures of the elbow. In Shoulder and Elbow: Surgical Techniques and Management ed William N Levine. Available for sale by the American Academy of Orthopaedic Surgeons "Standing Room Only"

Spencer EE. Simple elbow dislocations. In Shoulder and Elbow: Surgical Techniques and management ed William N Levine. Available for sale by the Academy of Orthopaedic Surgeons "Standing Room Only"

### **Chapters in Books**

Jebson PJJ, **Spencer EE**. Arthrodesis and arthroplasty of the hand and wrist. In: Jebson PJJ and Kasden MI., editors. Hand Secrets. 2<sup>nd</sup> ed. Philadelphia: Hanley & Belfus Inc;2002: 175-188.

**Spencer EE**, Wirth MA, Rockwood CA. Disorders of the sternoclavicular joint: pathophysiology, diagnosis and management. In: Iannotti, JP and Williams GR editors. Disorders of the Shoulder: Diagnosis and Management. 2<sup>nd</sup>. Philadelphia: Lippincott Williams and Wilkins.

### **PATENTS**

2 patents submitted

### **RESEARCH INTERESTS/ RESEARCH IN PROGRESS**

#### **Outcomes Research in the Shoulder**

**Spencer EE**. Interobserver agreement in classifying rotator cuff tears via MRI

**Spencer EE**. Development of Multicenter Orthopaedics Outcome Network for Rotator Cuff Disease.

#### **Shoulder Biomechanics**

**Spencer EE**. In vivo mechanics of prosthetic gl enohumeral arthroplasty

**Spencer EE** Arthroscopic rotator cuff repair