

CURRICULUM VITAE

Bryan Terry Leek

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San Diego, CA 92120-5256

EDUCATION

1. Academic Preparation

Undergraduate:

University of California, San Diego

Degrees:

Bachelor of Science, Chemical Engineering 1997

Bachelor of Science, Animal Physiology and
Neuroscience 1997

Honors:

Magna Cum Laude

Tau Beta Pi Engineering Honor Society

Graduate:

University of California, Irvine College of Medicine
Doctorate of Medicine 2002

2. Post Graduate Experience

Internship:

General Surgery

University of California, San Diego

Department of Surgery

2002-2003

Research Fellowship:

Orthopedic Surgery

University of California, San Diego

Department of Orthopedic Surgery

2003-2004

Residency:

Orthopedic Surgery

University of California, San Diego

Chair: Steven Garfin

Director: Alexandra Schwartz

Department of Orthopedic Surgery

2004-2008

Fellowship:

Sports Medicine and Arthroscopy

San Diego Arthroscopy and Sports Medicine

Director: James P. Tasto

San Diego, CA

2008-2009

Hand and Upper Extremity Surgery
Saint Luke's-Roosevelt Fellowship
C.V. Starr Hand Surgery Center
Columbia University
Director: Steven Glickel
New York, NY
2009-2010

CLINICAL PRACTICE

San Diego Sports Medicine & Orthopedic Center
Associate, 2010

MEDICAL LICENSURE AND BOARD CERTIFICATION

1. Medical Licensure

California
A88870
Date issued: 6/23/2004
Expiration: 12/31/2009
New York
254127
Date issued: 6/30/2009
Expiration: 6/30/2011
Drug Enforcement Agency
BL8868804
Expiration: 3/31/2010

2. Board Certification

American Board of Orthopedic Surgery (ABOS)
Board Eligible
Part I (Written): Passed July 18, 2008

PROFESSIONAL EXPERIENCE

1994-1996 Chemical/Environmental Engineer
Intern Position
Ogden Environmental, San Diego, CA
1997-1998 Research Assistant
Department of Medicine, Physiology
University of California, San Diego
1998 Teaching Assistant
Department of Biology
University of California, San Diego

TEACHING

1. Academic Positions

- 1997 Head Teaching Assistant: Mammalian Physiology
Undergraduate Course
Department of Biology
University of California, San Diego
- 1998 Teaching Assistant: Biochemistry
First Year Medical School Course
College of Medicine
University of California, Irvine
- 2003-2008 Resident in Orthopedic Surgery
Clinical Teaching Medical Students/Residents
Department of Orthopedic Surgery
University of California, San Diego
- 2008-2009 Fellow in Arthroscopy and Sports Medicine
Clinical Teaching Residents/Medical Students
San Diego Sports Medicine and Arthroscopy
VA Medical Center, San Diego
- 2009-2010 Fellow in Hand and Upper Extremity Surgery
Clinical Teaching Residents/Medical Students
St. Luke's-Roosevelt Hand Surgery Fellowship
C.V. Starr Hand Surgery Center
Columbia University
St. Luke's-Roosevelt Medical Centers

2. Clinical Course Instruction

AO North America Operating Room Personnel Course
Lecturer and Lab Instructor
San Diego, CA
July 2007

Smith & Nephew Shoulder Arthroscopy Course
Fellow Lab Assistant
Director: James Esch
Vista, CA
March 2009

Anney Live Surgery International Shoulder Advanced Course 2009
Fellow Surgical Assistant to Dr. James Esch
Anney, France
June 2009

AWARDS, LEADERSHIP, AND PROFESSIONAL ORGANIZATIONS

1. Awards and Honors

Tau Beta Pi Engineering Honor Society
Magna Cum Laude Honors:
Double Major UCSD
Physiology/Neuroscience and Chemical Engineering
NCAA Academic All-American:
Cross Country 1993, 1995, 1996
Track and Field 5000m 1997
Distinguished Achievement Award Medical Physiology 1998-1999
Letter of Commendation Clinical Pathology 1999
2004 Lloyd Taylor Award Winner
Outstanding Orthopaedic Contribution
Western Orthopaedic Association 68th Annual Meeting
October 1, 2004. San Francisco, CA, USA
Smith & Nephew 19th Annual Resident's Research Competition
Finalist
August 20, 2004. Memphis, TN, USA
Jeffrey Tamborlane Award – San Diego Sports Medicine and Arthroscopy
Fellowship
Outstanding Work in Sports Medicine Fellowship 2008-09
San Diego Sports Medicine and Arthroscopy Fellowship

2. Academic and Professional Leadership

2007-2008 Administrative Chief Resident
UCSD Orthopedic Surgery
Peer-elected

2007-2008 UCSD Resident Representative
Western Orthopedic Association
Board-nominated

3. Professional Organizations

American Academy of Orthopaedic Surgeons (AAOS)
American Orthopaedic Society for Sports Medicine (AOSSM)
Arthroscopy Association of North America (AANA)
American Society for Surgery of the Hand (ASSH)

RESEARCH AND PUBLICATIONS

1. Experience

7/1997–8/1998 Research Assistant
Department of Medicine, Physiology
University of California, San Diego
Description: Post-graduate research in skeletal
muscle, respiratory, and exercise physiology.
Lab Director: Russell Richardson, PhD

7/2002-6/2003 Research Fellowship

Department of Orthopedic Surgery
University of California, San Diego
Description: Research year during orthopedic surgery
residency with focus on compartment syndrome,
osseous fusion, and rehabilitation.
Lab Director: Alan Hargens, PhD

2. Publications

Articles

1. Richardson RS, **Leek BT**, Wagner PD, Kritchevsky M.
Transient global amnesia: a complication of incremental exercise testing.
Med Sci Sports Exerc. 1998 Oct;30(10 Suppl):S403-5.
2. **Leek BT**, Mudaliar SR, Henry R, Mathieu-Costello O, Richardson RS.
Effect of acute exercise on citrate synthase activity in untrained and
trained human skeletal muscle. Am J Physiol Regul Integr Comp Physiol.
2001 Feb;280(2):R441-7.
3. Richardson RS, **Leek BT**, Gavin TP, Haseler LJ, Mudaliar SR, Henry R,
Mathieu-Costello O, Wagner PD. Reduced mechanical efficiency in
chronic obstructive pulmonary disease but normal peak VO₂ with small
muscle mass exercise. Am J Respir Crit Care Med. 2004 Jan 1;169(1):89-
96.
4. Bawa M, Schimizzi AL, **Leek B**, Bono CM, Massie JB, Macias B,
Chung CB, Hargens AR, Garfin SR, Kim CW. Paraspinal muscle
vasculature contributes to posterolateral spinal fusion. Spine. 2006 Apr
15;31(8):891-6.
5. Wiemann JM, Ueno T, **Leek BT**, Yost WT, Schwartz AK, Hargens AR.
Noninvasive measurements of intramuscular pressure using pulsed
phase-locked loop ultrasound for detecting compartment syndromes: a
preliminary report. J Orthop Trauma. 2006 Jul;20(7):458-63.
6. **Leek BT**, Meyer RS, Wiemann JM, Cutuk A, Macias BR, Hargens
AR. The effect of kneeling during spine surgery on leg intramuscular
pressure. J Bone Joint Surg Am. 2007;89(9):1941-7.
7. **Leek BT**, Robertson C, Mahar A, Pedowitz RA. Comparison of
Mechanical Stability in Double Row Rotator Cuff Repairs between a
Knotless Trans-Tendon Construct versus the Addition of Medial Knots.
Arthroscopy: The Journal of Arthroscopic and Related Surgery.
(Submitted: in second review)

Abstracts

1. **Leek BT**, Mudaliar SR, Richardson RS. Effects of acute exercise on citrate synthase activity as an aerobic marker. *Med Sci Sports Exerc.* 1998; 30:S205.
2. Richardson RS, **Leek BT**, Haseler LJ, Gavin TP, Sheldon J, Eltin PL, Oflert IM, Wagner PD. Normal skeletal muscle function in patients with COPD when exercise is not centrally limited. *Med Sci Sports Exerc.* 1999; 31:S276.
3. **Leek BT**, Haseler LJ, Gavin TP, Wagner PD, Richardson RS. Evidence of a decrease in both convective and diffusive muscle oxygen transport with aging. *Med Sci Sports Exerc.* 1999; 31:S277.
4. Quintela E, Newcomer SC, **Leek BT**, Richardson RS. Citrate synthase activity in activity in skeletal muscle: Response to acute exercise. *Med Sci Sports Exerc.* 2000; 32:S320.
5. Bawa M, Schimizzi A, Kim C, **Leek B**, Bono C, Massie J, Macias B, Chung C, Cornwall B, Hargens A, Garfin S. Vascular contribution of paraspinal muscle in posterolateral spinal fusion. *The Spine Journal.* Sept 2004;4(5), S40.
6. **Leek BT**, Meyer RS, Wiemann J, Cutuk A, Macias B, Hargens A. Spine surgery operative positioning affects risk factor for compartment syndrome: leg intramuscular pressure, blood pressure, and applied load. *The Spine Journal.* July 2005;5(4), S100-101.
7. **Leek BT**, Robertson C, Mahar A, Guan Q, Pedowitz RA. Comparison of Medial Knot versus Trans-Tendon Suture Pass on the Mechanical Stability of Double Row Rotator Cuff Repair. *Arthroscopy: The Journal of Arthroscopic and Related Surgery.* June 2009; 25(6) Supplement, e1-e2.
8. Hoenecke HR, **Leek BT**, Flores-Hernandez C, D'Lima DD. The relationship of glenoid version measurements and humeral subluxation during preoperative assessment for total shoulder arthroplasty. AAOS 2010 Annual Meeting (*Submitted*).

Chapters

1. **Bryan T. Leek** and Scott J. Mubarak. *Operative Management of Pediatric Ankle Fractures*. Chapter 153 in *Operative Techniques in Orthopaedic Surgery: An Illustrative Approach*. Edited by Samuel W Wiesel. Lippincott Williams & Wilkins Publishing. In Review.
2. James C. Esch and **Bryan T. Leek**. *The Biology of Rotator Cuff Healing*. Chapter 1 in *Arthroscopy Association of North America (AANA)*

Advanced Shoulder Arthroscopy. Edited by Richard Ryu. Elsevier Publishing. In Review.

3. Steven Glickel and Bryan Leek. *Hand Osteoarthritis, Basal Joint Disease, LRTI* in Arthritis of the Hand and Upper Extremity: A Master Skills Publication. American Society for Surgery of the Hand. Submitted.

RELEVANT PRESENTATIONS AND LECTURES

1. Posters and Presentations

1. **Leek BT**. Effects of acute exercise on citrate synthase activity as an aerobic marker. American College of Sports Medicine. June 4, 1998. Orlando, FL, USA.
2. **Leek BT**. Spine Surgery Operative Positioning Affects Risk Factors for Compartment Syndrome: Leg Intramuscular Pressure, Blood Pressure and Applied Load. Smith & Nephew Nineteenth Annual Resident's Research Competition. August 20, 2004. Memphis, TN, USA.
3. **Leek BT**. Effect of Spinal Surgery Operative Positioning on Leg Intramuscular Pressure, Blood Pressure, and Applied Load. Western Orthopaedic Association 68th Annual Meeting as Outstanding Orthopaedic Contribution – 2004 Lloyd Taylor Award Winner. October 2, 2004. San Francisco, CA, USA.
4. **Leek BT**. Spine Surgery Affects Risk Factors for Compartment Syndrome: Leg Intramuscular Pressure, Blood Pressure and Applied Load. North American Spine Society. September 30, 2005. Philadelphia, PA, USA.
5. **Leek BT**. Comparison of Medial Knot versus Trans-Tendon Suture Pass on the Mechanical Stability of Double Row Rotator Cuff Repair. Arthroscopy Association of North America 28th Annual Meeting. April 30 2009. San Diego, CA, USA

2. Grand Rounds and Instructional Lectures

1. *Ankle Fractures in Children's Orthopedics*
UCSD Department of Orthopedic Surgery Grand Rounds
San Diego, CA
January 17, 2007
2. *Introduction to Imaging Techniques*
AO North America Operating Room Personnel Course
San Diego, CA
July 15, 2007
3. *The History of Orthopedics*

UCSD Department of Orthopedic Surgery Grand Rounds
San Diego, CA
October 17, 2007

4. *The Biology of Rotator Cuff Healing*
UCSD Department of Orthopedic Surgery Grand Rounds
San Diego, CA
April 22, 2009
5. *Orthopedic Upper Extremity Review*
St. Luke's-Roosevelt/CV Starr Hand Center Grand Rounds
New York, NY
September 22, 2009
6. *A Different Perspective of Shoulder Development: Beyond the Glenohumeral Joint and the Pediatric Patient*
Texas Scottish Rite Visiting Hand Fellow Lecture
Dallas, TX
April 8, 2010
7. *Tendon Transfers for Upper Extremity Nerve Injury*
St. Luke's-Roosevelt/CV Starr Hand Center Hand Grand Rounds
April 27, 2010
8. *Things to Know in Orthopedic Training*
St. Luke's-Roosevelt/CV Starr Hand Center Grand Rounds
June 15, 2010

SPORTS COVERAGE

San Diego Sports and Arthroscopy Fellowship (8/1/2008 – 7/30/2009)
San Diego Padres (Major League Baseball)
San Diego State University Aztecs (NCAA Division I)
Grossmont Community College Griffins
High School Football (Multiple San Diego County Teams)
World Baseball Classic (2009)

C.V. Starr Hand Fellowship (8/1/2008 – 7/30/2009)
Fordham University Rams (NCAA Division I)

PERSONAL INTERESTS

Distance Running – I competed in Track and Cross-Country throughout high school and college attaining honors including All-State in Cross-Country, NCAA Division III Academic All-American in Cross-Country (1993,1995,1997) and Track

& Field in 5000m (1998). I continue to run recreationally, and recently ran the 2009 New York City Marathon for Team Continuum to benefit cancer patients.

Traveling and Surfing– I enjoy international travel. I have also surfed for over 15 years and I have traveled throughout Hawaii, New Zealand, Mexico, Central and South America surfing.