

## CURRICULUM VITAE

### Renn J. Crichlow, M.D.

#### OFFICE ADDRESS

OrthoIndy  
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#### TRAINING/EDUCATION

##### FELLOWSHIP:

R. Adams Crowley Shock Trauma Center  
Baltimore, MD  
*Orthopaedic Traumatology*  
2004-2005

##### RESIDENCY:

Harvard Combined Orthopaedics Residency  
Boston, MA  
*Orthopaedic Surgery*  
2000-2004

- Elected Member (2 terms), Massachusetts General Hospital & Brigham and Women's Hospital Executive Committee on Training and Education (ECOTE)
- Volunteer Member, Partners Education Committee
- Resident member, Orthopaedics Core Curriculum Committee
- Member, Residency Web Site Design Committee
- Resident Interview Day Presenter/Co-coordinator

##### INTERNSHIP:

Beth-Israel Deaconess Medical Center  
Boston, MA  
*General Surgery*  
1999-2000

##### MEDICAL SCHOOL:

Harvard Medical School  
Boston, MA  
1994-1999 – M.D.

- Elected Moderator, Graduation Day Ceremonies  
1999

UNDERGRADUATE :

Simon Fraser University  
Vancouver, Canada  
1989-1994 – B.S. Applied Science

- Honor Roll 89-94
- PetroCanada Legacy Fund Scholarship
- Dean's Graduation Medal Finalist
- Senate Undergraduate Scholarship
- Kinesiology Faculty Prize
- Entrance Scholarship for Academic Excellence

### CERTIFICATION

- American Board of Orthopaedic Surgery – Step 2      Passed 07/2008
- American Board of Orthopaedic Surgery – Step 1      Passed 07/2004
- USMLE Step 3      Passed 06/2000
- USMLE Step 2      Passed 08/1998
- USMLE Step 1      Passed 06/1997

### PUBLICATIONS

1. *Complications of Anterior Subcutaneous Internal Fixation for Unstable Pelvis Fractures: A Multicenter Study. Symposium: Disruptions of the Pelvic Ring: An Update.* Vaidya R, Kubiak EN, Bergin PF, Dombroski DF, Crichlow RJ, Sethi A, Starr AJ. **Clinical Orthopaedics and Related Research.** 470(8): August 2012
2. *The Authors Respond. Letter to the editor.* Crichlow, RJ. **Journal of Orthopaedic Trauma:** 24(10): 95-97, October 2010
3. *Appropriateness of Patient Transfer With Associated Orthopaedic Injuries to a Level I Trauma Center.* Crichlow RJ, Zeni A, Reveal G, Kuhl M, Heisler J, Kaehr D, Vijay P, Musapatika DL. **Journal of Orthopaedic Trauma.** 24(6):331-335, June 2010.
4. *Complications associated with the posterolateral approach for pilon fractures.* Bhattacharyya T, Crichlow RJ, Gobezie RG, Vrahas MS. **Journal of Orthopaedic Trauma** 2006 Feb;20(2):104-7
5. *Depression in Orthopaedic Trauma Patients: Prevalence and Severity.* Crichlow RJ, Andres PL, Morrison SM, Haley SM, Vrahas MS. **Journal of Bone and Joint Surgery.** 2006 Sept;88-A(9) : 1927-1933
6. *Depression in Orthopaedic Trauma Patients.* Crichlow RJ, Vrahas MS. **AO Dialogue** 2006 ; 3/06: 17-18
7. *An evidence based review of Glucosamine conducted by the Natural Standard research - Collaboration.* **Journal of Complementary and Integrative Medicine** 2005: Vol 3 ; Iss. 1, Article 1.

8. "Chapter 6: Bone Physiology", **Concepts in Medical Physiology**, 2005, Seifter J, Ratner A, Sloane D Eds.
9. Hecht AC, Scott DL, Crichlow R, Hornicek FJ, Pedlow FX. "Metastatic Disease", **The Adult and Pediatric Spine**, 2003, 3<sup>rd</sup> Edition Frymoyer JW, Wiesel SW Eds.
10. Guest editorial, Toronto Star (circulation 450,000), 7/10/2002, "*Steroids are Ruining Baseball*"

## NATIONAL PRESENTATIONS

1. AAOS Paper Presentation 2012: *Indications and Outcomes of Anterior Subcutaneous Fixator (InFix) in Pelvis Fractures: A Multicenter Study*. Vaidya R, Kubiak E, Bergin PF, Dombrowski DG, Crichlow RJ, Sethi A, Starr AJ.
2. AAOS Poster Presentation 2012: *Outcomes of Conservative Management of Pelvic Ring Injuries*, Crichlow RJ, Davis JJ, Scheid DK, Watts M, Stone M, Musapatika, MS
3. AAOS Poster Presentation 2011: *Appropriateness of Patient Transfer with Associated Orthopaedic Injuries to a Level-I Trauma Center*. Renn Crichlow, MD; Amer Zeni, MD; Greg Reveal, MD; Mitch Kuhl, DO; Jason Heisler, DO; David Kaehr, MD; Palaniswamy Vijay, PhD; Dana Musapatika, MS, MSc
4. AAOS Poster Presentation 2009: *Outcomes in Intramedullary Nailing and Locked Internal Fixation of Supracondylar Femur Fractures*, Renn J Crichlow, MD, David M Kaehr, MD, Timothy G Weber, MD, Chelsie Baughman, Elizabeth McCarty, Palaniswamy Vijay, PhD, Amer Zeni, MD
5. OTA Podium Presentation 2008: *Appropriateness of Patient Transfer with Associated Orthopedic Injuries to Level-I Trauma Center*, Renn J. Crichlow, MD, Amer Zeni, MD, Greg Reveal, MD, Mitch Kuhl, MD, Jason Heisler, DO, David Kaehr, MD, Palaniswamy Vijay, PhD
6. OTA Poster Presentation 2008: *The effect of Piriformis versus Tronchanteric Portal on Hip Muscle Strength. A randomized Prospective Study*. Timothy G Weber MD, Renn J Crichlow MD, David S. Brokaw, Gregory Dikos, Marcus Stone, Tabitha Williams, Palaniswamy Vijay, PhD
7. OTA Poster Presentation 2007: *Conservative Management of Pelvic Ring Injuries*, Crichlow RJ, Davis JJ, Scheid DK, Watts M, Stone M.
8. AAOS Specialty Day Orthopaedic Rehabilitation Association, Podium Presentation, 2006: "*Depression in Orthopaedic Trauma Patients: Prevalence and Severity.*"
9. Eastern Association for the Surgery of Trauma, Poster Presentation 2006: "*Immediate Operative Stabilization of Unstable Pelvic Ring Injuries at Time of Emergent Exploratory Laparotomy: A Series of 36 cases*" Crichlow RJ, Nascone J, Sciadini M, Graf K, Turen C, Scalea TM

10. Eastern Orthopaedic Association, Podium Presentation 2005: “*Immediate Operative Stabilization of Unstable Pelvic Ring Injuries at Time of Emergent Exploratory Laparotomy: A Series of 36 cases*” Crichlow RJ, Nascone J, Sciadini M, Graf K, Turen C, Scalea TM
11. AAOS Poster Presentation 2004: “*Tibial Pilon Fractures Treated via Posterolateral Approach*” Crichlow RJ, Vrahas MS, Gobezie RG, Ponce B.
12. AAOS Poster Presentation 2004: “*Nonunion of the tibia with posterolateral approach and ORIF*” Crichlow RJ, Vrahas MS, Ponce B, Gobezie RG.

## **CURRENT RESEARCH PROJECTS**

### Member Major Extremity Trauma Research Consortium (METRC)

- Former Member Steering Committee and PI for METRC primary core clinical site at Methodist Hospital 2009-2013
- PI METRC Satellite Center St Vincent’s Hospital Indianapolis 2013-current
- Member TCCI protocol committee
  - Improving Activity and Quality of Life Following Lower Extremity Trauma: The Trauma Collaborative Care Intervention
- Member FIXIT protocol committee
  - FIXIT: A Prospective Randomized Trial to Assess Fixation Strategies for Severe Open Tibia Fractures: Modern Ring External Fixators or Internal Fixation with Intramedullary Nails or Plates.
- METRC is a collaboration between 13 Core Orthopaedic Trauma Centers including Maryland Shock Trauma, Harborview, Parkland, Tampa, Johns Hopkins, Carolinas Medical Center and others around the country
- This consortium has received greater than 60 million dollars in grants to study high energy lower extremity trauma

### INFIX Pelvic Fracture Working group.

- Working with Rahul Vaidya, Adam Starr and Erik Kubiak on continuing analysis of the role of INFIX in the management of pelvic ring injuries

### Pelvic Fracture Outcomes

- Working with Current fellow and previous resident to examine role of SI screw removal on pelvic fracture and low back pain outcomes

### Biomechanical Analysis of Augmented Plate Fixation for the Treatment of Vertical Shear Pauwels III Femoral Neck Fractures.

- Biomechanical analysis of novel method of femoral neck fixation
- Manuscript in preparation for submission to JOT

## **PROFFESIONAL AFFILIATIONS**

Member American Academy of Orthopaedic Surgeons (AAOS)

Diplomat American Board of Orthopaedic Surgery (ABOS)

Member Orthopaedic Trauma Association (OTA)

Member American Medical Association (AMA)

Member Indiana Orthopaedic Society (IOS)

Member Indiana State Medical Association (ISMA)

AO Faculty Member (Instructor)

Member International Council of Motorsport Sciences

## **INDUSTRY AFFILIATIONS (Current and Past)**

Consultant Medtronic 2012

- Re-imbursed for instructional video for Aquamantis device

AO North America Faculty and Speaker 2006-present

- Multiple AO Courses
- Reimbursed for expenses and paid Per-Diem

Speaker Stryker Orthopaedics 2008-2010

- Reimbursed for travel expenses

Consultant Aquamantis Technology 2008-2009

- Re-imbursed for presentations to sales force

Consultant QFx Technologies 2008

- Paid advisor on novel external fixator system for damage control orthopaedics

## **ORTHOPAEDIC EXPERIENCE**

Member IndyCar Safety Team

- 2011 – present
- Assist in on track rescue and evaluation of injured drivers, assist in post crash evaluation at infield care center

Member State of Florida, Department of Health Trauma Center Approval Team

- Survey Committee Member 2011- present
- 4 surveys completed

Reviewer, Journal of Orthopaedic Trauma. 2006-present (Pelvis and Tibia Sections)

- 67+ papers reviewed

Reviewer, Journal of Trauma, Infection and Critical Care. 2010-present

- 7 papers reviewed

Secretary OrthoIndy Board of Directors. 2010-present

- Elected by physicians of OrthoIndy to ensure smooth running of the practice with over 70 physicians and over 750 employees

Member OrthoIndy Finance Committee. 2006-present

- Volunteer member of committee overseeing finances of group with \$125 in gross revenue

Member Methodist Hospital Trauma Program Operational Performance Committee

- 2009-2013
- Ensure delivery of trauma within the center meets ACS Standards

Member Methodist Hospital Trauma Peer review Committee

- 2009-2013
- ensure maintenance of ACS Level 1 certification

## **PRACTICE PROFILE**

- 2005 – Present full time trauma practice, Private Practice Model
- Average 600 cases yearly
- Complex pelvis, polytrauma, peri-articular fractures
- 40+ acetabular fractures, 50+ pelvic fractures yearly
- 5-7 *in house* call nights per month 2005 - 2013

## **EXPERIENCE**

Canadian Olympic Canoe Team, 1985-1996

*Team Member*

- World Champion & Gold Medal, 1991 Kayak Singles Paris, France
- Olympic Games Team: Seoul 1988, Barcelona 1992, Atlanta 1996
- World Championships: Silver Medal 1993 – Copenhagen, Denmark; Bronze Medal 1995- Duisburg Germany; Bronze Medal 1987 – Belgrade, Yugoslavia (Jr.)
- Silver Medal, Goodwill Games 1994; St. Petersburg, Russia
- 16 Canadian Senior Singles Titles

Canadian Olympic Association Board of Directors, 1999-2001

*Represented athletes of all sports to the Olympic Association Board*

Canadian Olympic Association Athletes Council, 1997-2001

*Elected Vice Chair (2 terms)*

- represented the athletes of canoeing to Executive Committee
- oversaw implementation of athlete centered model of sport governance
- instituted standards relating to team and athlete selection

International Olympic Committee World Anti-Doping Conference, 1999

*Canadian Athlete Representative to the conference that created the World Anti-Doping Agency*

International Canoe Federation Athletes Committee, 1991 – 1993

*Elected Member, represented English speaking athletes to ICF board members*

Esteem Team Speakers Bureau & Athletes Motivating Excellence Speakers Bureau, 1989-1993

*Member of Speakers Bureau, which spoke to school, aged children about “Fair Play” and self-worth*

Federal Fair Play Commission, 1991 & Spirit of Sport Foundation Representative, 1992-1996

*Selected by Federal Fitness and Amateur Sport Department to promote “Fair Play”, “Drug Free Sport” and the value of sport to Canadian society*

## **AWARDS**

- Indianapolis Monthly 2012: Top Orthopaedic Surgeons
- Indianapolis Monthly 2011: Top Orthopaedic Surgeons
- US News and World Report: Top Orthopaedic Surgeons 2011
- Indianapolis Monthly 2010: Top Orthopaedic Surgeons
- Orthopaedic Rehabilitation Association Jacqueline Perry Award, 2006
- Elected Ottawa Sports Hall of Fame, 2001
- Elected Canadian Amateur Hall of Fame, 1992
- Harry Jerome National Achievement Award, 1992
- Elected Nepean Wall of Fame, 1987

## **FAMILY/HOBBIES**

- Wife: Heather
- Children: Chris (13), Cole (10), Cameron (5), Carter & Conrad (3)
- Wakeboarding, Fitness