

Todd R. Borenstein MD

Orthopedic Foot and Ankle Surgery ♦ Huntington Orthopedics ♦ 39 Congress Street, Second Floor ♦ Pasadena, California, 91005 ♦

Education

Washington University in St. Louis
St. Louis, Missouri
BA Biology, Minor in Fine Arts, 2004

Tulane School of Medicine
New Orleans, Louisiana
Doctor of Medicine, *Alpha Omega Alpha*, 2010

Brown University/Rhode Island Hospital
Providence, Rhode Island
General Surgery Internship, 2010-2011
Chairman: William Cioffi MD

Brown University/Rhode Island Hospital
Providence, Rhode Island
Orthopedic Surgery Residency, 2011-2015
Chairman: Michael Ehrlich MD

Brown University/Rhode Island Hospital
Providence, Rhode Island
Orthopedic Surgery Trauma Fellowship, 2015-2016
Fellowship Director: Chris Born MD

Cedar Sinai Medical Center
Los Angeles, CA
Foot and Ankle Fellowship, 2016-2017
Fellowship Director: David Thordarson, MD

Honors / Awards

Alpha Omega Alpha (AOA) Medical Honor Society, Member 2010

Licensure

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| Rhode Island MD | 14919 | 2015 |
| California MD | 139526 | 2016 |
| Washington MD | 60745463 | 2017 |

Leadership

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| Rhode Island Hospital Medical Student Surgical Interest group mentor | 2013 – 2015 |
| Chief; Grand Rounds Selection Committee | 2013 – 2015 |
| Social Chair Chief Resident | 2013 – 2015 |
| Clinical Learning Environment Review, ACGME, peer-selected member | 2014 – 2015 |

— Research Experience

National Institute of Health

2004-2006

National Cancer Institute

Experimental Transplantation and Immunology Branch

- Post-Baccalaureate Research Fellow-National Cancer Institute
Principle Investigator: Dr. Dan Fowler
 - Experimental Bone Marrow Transplantation

Brown University – Warren Alpert School of Medicine

2011 – 2015

Department of Orthopaedic Surgery

- Division of Hand Surgery
 - Mentors: Edward Akelman MD, JJ Crisco PhD, Manuel DaSilva MD
 - *Triquetrohamate Ligament Excision and Carpal Instability in Cadavers Instability in Cadavers*
 - *Pisiform Excision and Carpal Instability in Cadavers Instability in Cadavers*
- Division of Trauma
 - Mentors: Chris Born MD and Roman Hayda MD
 - *Modified 3 screw fixation of Pauwels III Femoral Neck Fractures*
- Division of Foot and Ankle Surgery
 - Mentors: Brad Blankenhorn MD
 - *Arthroscopic evaluation of syndesmotic injuries*

— Peer-Reviewed Publications

- **Borenstein TR**, Anand K, Quanlin L, Charlton T, Thordarson D. A Review of Perioperative Complications of Outpatient Total Ankle Arthroplasty. *Foot and Ankle International*. 2018 Feb;39(2):143-148. doi: 10.1177/1071100717738748. Epub 2017 Nov 21
- Johnson JP, **Borenstein TR**, Waryasz GR, Klinge SA, McClure PK, Chambers AB, Hayda RA, Born CT. Vertically oriented femoral neck fractures: A biomechanical comparison of three fixation constructs. *J Orthop Trauma*. 2017 Mar 23.
- Waryasz GR, Tambone R, **Borenstein TR**, Gil JA, DaSilva M. A Review of Anatomical Placement of Corticosteroid Injections for Uncommon Hand, Wrist, and Elbow pathologies. *R I Med J* (2013). 2017 Mar 1;100(2):31-34. Review.
- Feller, RJ, **Borenstein TR**, Fantry AJ, Kellum RB, Machan JT, Nickisch F, Blankenhorn B. Arthroscopic Quantification of Syndesmotic Instability in a Cadaveric Model. *Arthroscopy*. 2017 Feb;33(2):436-444
- Harris AP, Gil JA, Goodman AD, Nacca CR, **Borenstein TR**. Acute plantar midtarsal dislocation with intercuneiform dislocation: Case study, diagnosis and management. *J Orthop*. 2016 Oct 25;14(1):26-29

- **Borenstein TR**, Cohen B, Kane, P. High Pressure injection to the great toe with river water: a case report. Accepted R I Med J (2013). 2015 Nov 2;98(11):38-41.
- **Borenstein TR**, Cohen E, McDonnell M, Kamal RN, Hayda RA. Deltoid Compartment Syndrome After Prolonged Lateral Decubitus Positioning: A Case Report *JBJS Case Connect*, 2015 May 27; 5 (2): e45
- Eberson CP, Hsu RY, **Borenstein TR**. Procedural Sedation in the Emergency Department. *J Am Acad Orthop Surg*. 2015 Apr;23(4):233-42
- Pidgeon T, **Borenstein TR**, Daniels AH, and Hayda RA. Understanding Multiple Sclerosis: Essentials for the Orthopaedic Surgeon. *JBJS Reviews*. 2014 Jul; 2 (7): e3
- Erdmann AA, Gao ZG, Jung U, Foley J, **Borenstein TR**, Jacobson KA, Fowler DH. Activation of Th1 and Tc1 cell adenosine A2A receptors directly inhibits IL-2 secretion in vitro and IL-2-driven expansion in vivo. *Blood*. 2005 Jun 15;105(12):4707-14. Epub 2005 Mar 3.
- Foley JE, Jung U, Miera A, **Borenstein TR**, Mariotti J, Eckhaus M, Bierer BE, Fowler DH. Ex vivo rapamycin generates donor Th2 cells that potently inhibit graft-versus-host disease and graft-versus-tumor effects via an IL-4-dependent mechanism. *J Immunol*. 2005 Nov 1;175(9):5732-43.
- Jung U, Foley JE, Erdmann AA, Toda Y, **Borenstein TR**, Mariotti J, Fowler DH. Ex vivo rapamycin generates Th1/Tc1 or Th2/Tc2 Effector T cells with enhanced in vivo function and differential sensitivity to post-transplant rapamycin therapy. *Biol Blood Marrow Transplant*. 2006 Sep;12(9):905-18.
- Mariotti J, Foley J, Jung U, **Borenstein TR**, Kantardzic N, Han S, Hanson JT, Wong E, Buxhoeveden N, Trepel JB, Fojo AT, Telford W, Fowler DH. Ex vivo rapamycin generates apoptosis-resistant donor Th2 cells that persist in vivo and prevent hemopoietic stem cell graft rejection. *J Immunol*. 2008 Jan 1;180(1):89-105.

— Poster/Podium Presentations —

- **Borenstein TR**, Anand K, Quanlin L, Charlton T, Thordarson D. A Review of Perioperative Complications of Outpatient Total Ankle Arthroplasty. Podium presentation for 2018 National Meeting of AAOS
- **Borenstein TR**, Anand K, Quanlin L, Charlton T, Thordarson D. A Review of Perioperative Complications of Outpatient Total Ankle Arthroplasty. Poster presentation for 2016 National Meeting of AOFAS
- Feller RJ, **Borenstein TR**, Fantry AJ, Blankenhorn B Arthroscopic evaluation of syndesmotic injuries. Podium presentation at the 2015 National Meeting of AOFAS.
- **Borenstein TR**, Kamal RN, Rainbow M, Crisco JJ, Akelman E. Kinematic analysis of the pisotriquetral joint Poster presentation for 2015 ASSH meeting

— Book Chapters

- **Todd Borenstein**, and Roman Hayda. *Gait, Amputations, Orthotics and Prosthetics* Robin Kamal and Arnold-Peter Weiss (eds). Thieme, 2014.

— Lectures

- *Vertically Oriented femoral neck fractures: A biomechanical comparison of compression screw configurations.* Grand Rounds Brown University, Department of Orthopaedic Surgery, Providence, RI, 2012.
- *Joint Aspiration and Injections.* Department of Orthopaedic Surgery Residency Program, Providence, RI, 2012.
- *Upper Extremity Casting.* Department of Orthopaedic Surgery Residency Program, Providence, RI, 2013.
- *Surgical management of talar neck fractures.* Department of Orthopaedic Surgery Residency Program, Providence, RI, 2014.
- *Surgical Anatomy of the pelvis.* Department of Orthopaedic Surgery Residency Program, Providence, RI, 2014.

— Membership

American Orthopaedic Foot and Ankle Society

- Member 2019- present

American Academy of Orthopaedic Surgeons

- Member 2017- present

— Certification

American Board of Orthopedic Surgeons

- Board Certification 2019

— National Meetings/ Courses

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| AO Basic Fracture Course, Chicago, IL | 2011 |
| UT Southwestern Dallas Short Course: Prosthetics and Orthotics, TX | 2012 |
| Boston Pathology Course, Boston, MA | 2013 |
| Arthroscopy Association of North America Master's Course, Rosemont, IL | 2013 |
| American Academy of Orthopedic Surgeons, New Orleans, LA | 2014 |
| Stryker Advanced Nailing Course, Long Beach CA | 2014 |
| Smith and Nephew Foot and Ankle Course, Cordova, TN | 2014 |
| AOFAS Annual Meeting, Long Beach, CA | 2015 |
| Stryker Foot and Ankle International Symposium, NY, NY | 2016 |