

Brigham K. Au, M.D., specializes in orthopaedic trauma. He has special interest in pelvic and acetabulum fractures, complex intra-articular fractures, geriatric fractures, periprosthetic fractures, malunions, nonunions, and musculoskeletal infections. Dr. Au completed his undergraduate studies at the University of Utah in 2005, majoring in Spanish. He then moved to Nashville and graduated from the Vanderbilt University School of Medicine in 2009. He completed his orthopaedic residency at Parkland / UT Southwestern in 2014, doing a 3 month travelling fellowship in Norwich, England. In 2015 he finished the Florida Orthopaedic Trauma Institute fellowship, completing another traveling fellowship in Edinburgh, Scotland focusing on ilizarov techniques for complex lower extremity reconstruction for non and malunions.

Dr. Au then joined the orthopaedic trauma faculty at Parkland for three years, where he worked on multiple research projects, and gave lectures and presentations local, national, and international orthopaedic meetings. He has also co-authored a chapter on pelvic and acetabulum fractures. While at Parkland, he served as the course director for the 1st year medical school MSKS course. His most memorable achievement was being given the Charles M. Reinert Award, named after one of his mentors, given annually to a faculty member for resident education.

License information:

State of Texas, Medical license number P3686 (2013 - current)

State of Florida, Medical license number ME 118980 (2014-2016)

EMPLOYMENT HISTORY

Texas Metroplex Institute for Sports Medicine & Orthopedics

08/16/18 – present

- Orthopaedic Trauma Surgeon

UT Southwestern

09/01/15 – 08/08/2018

- Assistant Professor

Division of Trauma

Department of Orthopaedic Surgery

FELLOWSHIP

Florida Orthopaedic Institute
07/31/15

08/01/14 –

- Orthopaedic Trauma Fellowship

Department Head: Dr. Roy Sanders

13020 Telecom Parkway N

Temple Terrace, Florida 33637-0925

Contact telephone #: (813) 978-9700 ext 7146

Contact person Trelinda Shorter

RESIDENCY

UT Southwestern Dept. of Orthopaedic Surgery
– 06/13/14

07/01/10

- Orthopaedic Surgery Residency

UT Southwestern Medical Center

Department Head: Dr. Dane Wukich

5323 Harry Hines Blvd

Dallas, TX 75390-8870

Contact telephone #: (214) 645 - 1682

Contact person: Menyon Menefee, Coordinator

INTERNSHIP

UT Southwestern Dept. of General Surgery
06/30/10

07/01/09 –

- General Surgery Internship

UT Southwestern Medical Center
Department Head: Dr. Dane Wukich
5323 Harry Hines Blvd
Dallas, TX 75390-8870
Contact telephone #: (214) 645 - 1682
Contact person: Menyon Menefee, Coordinator

EDUCATION HISTORY

Vanderbilt University School of Medicine
Aug 2005 – May 2009

University of Utah
2005

Aug 1999 – May

- BA - Spanish

RESEARCH EXPERIENCE

MANUSCRIPTS

- **Au, B**, Groundland, J, Stoops TK, Santoni B, Sagi HC. Comparison of Three Methods for Maintaining Inter-Fragmentary Compression After Fracture Reduction and Fixation. J Orthop Trauma; Dec 2016; (ePrint).
- **Au, B**, Jamieson MD, Banerjee R. Rotational osteoplasty for femoral head fracture with cartilage loss. Orthopedics; Jan 2013; e105-8

- Zaydfudim V, Dutton W, Feurer ID, **Au BK**, Pinson CW, Cotton BA. Exsanguination Protocol Improves Survival After Major Hepatic Trauma. *Injury* 2010; 41:30-34.
- Cotton, BA, .Dossett LA, Haut ER, Shafi S, Nunez TC, **Au BK**, Zaydfudim V, Johnston M, Arbogast P, Young PP. Multicenter Validation of a simplified score to predict massive transfusion in trauma. *J Trauma*. 2010 Jul; 69 Suppl 1:S33-9.
- **Au, BK**, Dutton WD, Zaydfudim V, Young PP, Cotton BA. Hyperkalemia following massive transfusion in trauma. *J Surg Research* 2009; 157:284-289
- Cotton BA, **Au BK**, Kaltenbach L, Nunez TC, Robertson, Arbogast P, Young PP. Room for (performance) improvement: provider related factors associated with poor outcomes in massive transfusion. *J Trauma* 2009; 67: 1004-1012.
- Cotton BA, Dossett LA, **Au BK**, Nunez TC, Robertson AM, Young PP. Room for (performance) improvement: provider-related factors associated with poor outcomes in massive transfusion. *J Trauma*. 2009; 67(5): 1004-12.
- Cotton BA, **Au BK**, Nunez TC, Gunter OL, Robertson A, Young PP. Predefined massive transfusion protocols are associated with a reduction in organ failure and post-injury complications. *J Trauma* 2009; 66:41-49.
- Gunter OL, **Au BK**, Mowery N, Cotton BA. Optimizing outcomes in damage control resuscitation: Identifying blood product ratios associated with improved survival. *J Trauma* 2008; 65-3: 527-534.
- Cotton BA, Gunter OL, Isbell J, **Au BK**, Robertson AM, Morris JA, St. Jacques P, Young PP. Damage control hematology: impact of a defined exsanguination protocol on mortality and blood utilization. *J Trauma* 2008; 64:1177-1183.

- **Au, BK**, Gunter OL, Isbell, J, Cotton BA. Damage control hematology: Impact of an exsanguination protocol delivered in a continuous manner with predefined blood component therapy. *J Am Coll Surg* 2007. 205 (3): S33-39.

ABSTRACTS

- Rose RA, Wallace SB, Gates ST, **Au BK**. Ipsilateral Femoral Neck and Shaft Fractures – One or Two Devices? Oral Presentation by Wallace SB. Clinical Orthopedic Society, Austin TX. September 29, 2018
- Russell, R, **Au, B**, Howard, K, Bucholz, R. Effect of Psychopathology and Obesity on Outcomes of Total Knee Arthroplasty. Presented in oral form at Mid-America Orthopaedic Association meeting, April 24, 2014.
- **Au, B**, Daniels, M, Banerjee, R. Pelvic CT Obtained Prior to Hip Reduction Increased Time to Reduction, Cost, and Radiation Exposure. Presented in oral form at AAOS Annual Meeting, March 21, 2013.
- **Au, B**, Chao, J, Cline, K, Starr, AJ. Infection Rate and Treatment of Transpelvic Gunshot Wounds. Presented in oral form at AAOS Annual Meeting, March 21, 2013.
- **Au, BK**, Chen C, Banerjee, R. The Role of G-Protein Coupled Estrogen Receptor 1 in Fracture Healing. Presented in oral form at the AO North America Challenges in Fracture Care Across Disciplines Meeting February 24, 2012.
- Dutton WD, **Au BK**, Zaydfudim V, Dossett LA, Nunez TC, Cotton BA. Higher plasma: RBC and platelet : RBC ratios are associated with a reduction in mortality among non-massively transfused trauma patients. Presented in poster form at the 68th Annual Meeting of the American Association for the Surgery of Trauma. Pittsburgh, Pennsylvania, October 1 – 3, 2009.

- Dutton WD, **Au BK**, Zaydfudim V, Dossett LA, Nunez TC, Cotton BA. Impact of higher ratios of plasma and platelets in non-massively transfused patients. Presented in poster form at the Annual Conference of Advanced Technology Applications for Combat Casualty Care (ATACCC). August 10-12, 2009, St. Pete Beach, Florida.
- Zaydfudim V, Dutton W, Feurer ID, **Au BK**, Pinson CW, Cotton BA. Exsanguination Protocol Improves Survival After Major Hepatic Trauma. Presented in oral form at the Fifteenth Annual Meeting of the American Hepato-Pancreato-Biliary Association; March 12-15, 2009, Miami Beach, Florida.
- **Au, BK**, Dutton WD, Zaydfudim V, Nunez TC, Young PP, Cotton BA. Hyperkalemia following massive transfusion in trauma. Presented in oral form at the 4th Annual Academic Surgical Congress; February 3-6, 2009, Fort Myers, Florida.
- Cotton BA, **Au BK**, Dossett LA, Kaltenbach L, Gunter OL, Robertson A, Arbogast P, Young PP. Room for (performance) improvement: provider related factors associated with poor outcomes in massive transfusion. Presented in oral form at the Twenty-second Annual Scientific Meeting of EAST at the Disney Island Resort & Yacht Club, Florida January 15-19, 2009.
- Robertson A, Enker M, **Au BK**, Cotton BA. Impact of an exsanguination protocol on intraoperative fluid, blood product and vasopressor requirements. Presented in oral form at the Annual Meeting of the American Society of Anesthesiology October 18-22, 2008 in Orlando, FL.
- Cotton BA, **Au BK**, Isbell JA, Gunter OL, Nunez TC, Robertson A, Young PP. Predefined massive transfusion protocols are associated with a reduction in organ failure and post-injury complications. Presented in oral form at the Sixty-Seventh Annual Meeting of the American Association for the Surgery of Trauma in Maui, Hawaii on September 24-27, 2008.

- Enker M, **Au BK**, Robertson A, Cotton BA. Implementation of a trauma exsanguination protocol and vasoactive drug administration in a level trauma 1 center. Presented in oral form at Gulf Atlantic Resident Research Conference April 2008.
- Gunter OL, **Au BK**, Isbell J, Mowery N, Cotton BA. Optimizing outcomes in damage control resuscitation: Identifying blood product ratios associated with improved survival. Presented in oral form at the Twenty-first Annual Scientific Meeting of EAST at the Amelia Island Plantation, Florida January 15-19, 2008.
- **Au, BK**, Isbell J, Gunter OL, Cotton BA. Improved survival and reduced blood product utilization following implementation of a trauma exsanguination protocol. Presented in oral form at the American College of Surgeons' 93rd Annual Clinical Congress Meeting, October 7-11, 2007. New Orleans, LA.
- Cotton BA, Gunter OL, **Au BK**, Isbell J, Robertson A, St. Jacques P, Young PP. Damage control hematology: impact of an established exsanguination protocol on mortality and blood utilization. Presented in oral form at the Sixty Sixth Annual Meeting of the AAST, September 27-29, 2007. Las Vegas, NV

INVITED REVIEWER

- Journal of Orthopaedic Trauma
 - December 2017 - current

POSITIONS

- Surgical Services Executive Committee, Parkland Memorial Hospital
 - July 2017 – current

- Antimicrobial Stewardship Committee, Parkland Memorial Hospital
 - May 2017 – current

- Course Director
 - Musculoskeletal Course, UT Southwestern School of Medicine
 - August 2016 – current

- Student Promotion Committee, UT Southwestern School of Medicine
 - August 2016 – current

- Faculty Senator, UT Southwestern
 - August 2016 – current

- Finance Committee Member, Department of Orthopaedic Surgery, UT Southwestern
 - July 2016 – current

- Research Committee Member, Department of Orthopaedic Surgery, UT Southwestern
 - July 2016 – current

- Infection Prevention Committee, Parkland Memorial Hospital
 - April 2016 – current

AWARDS

- Charles M. Reinert Award, 2018

- “MVP Lecturer for Musculoskeletal and Dermatology” UT Southwestern Musculoskeletal Course, January 2018
- “Outstanding Teacher Award” UT Southwestern Medical School, Academic Year 2017-2018
- “MVP Lecturer for Musculoskeletal and Dermatology” UT Southwestern Musculoskeletal Course, January 2017
- “Outstanding Teacher Award” UT Southwestern Medical School, Academic Year 2016-2017
- COTA fellowship award
 - 75,000 grant towards funding fellowship at Florida Orthopaedic Institute / Tampa General Hospital
- OTA 2012 GRANT AWARDS
 - Title: The Role Of G Protein-Coupled Estrogen Receptor 1 In The Fracture Healing Of Normal And Oophorectomized Mice
 - PI: Rahul Banerjee
 - Co-PI: Brigham Au
 - Amount: \$25,000
 - grant cycle: 1/1/2012 – 12/31/2012

INVITED LECTURES

- Fractures of the Hindfoot and Midfoot
 - OTA NP/PA course, Orlando, Florida, October 18, 2018

- Musculoskeletal Infections
 - UT Southwestern Department of Orthopaedic Surgery, February 21, 2018

- Nonunions in Orthopaedic Trauma
 - UT Southwestern Department of Orthopaedic Surgery, February 14, 2018

- Articular Structure, Function, Disease and Injury
 - UT Southwestern Medical School, January 08, 2018

- Common Lower Extremity Injuries
 - UT Southwestern Medical School, January 08, 2018

- Femoral Nonunions
 - UT Southwestern Medical School, January 08, 2018

- Tendon and Ligament Structure, function, Disease and Injury
 - UT Southwestern Medical School, January 04, 2018

- Biomechanics of Musculoskeletal Tissue
 - UT Southwestern Medical School, January 02, 2018

- Fractures of the Hindfoot and Midfoot
 - OTA NP/PA course, Vancouver Canada, October 12, 2017

- World Congress of Orthopaedic Surgery– Fractures of the Hindfoot and Midfoot
 - Taiyuan, China, September 23, 2017

- Department of Plastic Surgery Grand Rounds – Lower Limb Salvage

- UT Southwestern Medical School, May 18, 2017
- Intimate Partner Violence and Orthopaedic Manifestations
 - UT Southwestern Medical School, April 10, 2017
- 5 Common Upper Extremity Injuries
 - UT Southwestern Medical School, January 5, 2017
- Tendon and Ligament Structure and Function
 - UT Southwestern Medical School, January 5, 2017
- Biomechanics of Musculoskeletal Tissue
 - UT Southwestern Medical School, January 3, 2017
- Femoral Nonunions
 - UT Southwestern Medical School, January 3, 2017
- Management of Intra-Articular Fractures of the Lower Extremity
 - Dallas Orthopaedic Nurses INC, NAON meeting, August 09, 2016

COURSES TAUGHT

- Masters Fracture Course
 - Proximal humerus fractures, April 26-28 2018
- SAIF course
 - Forearm and wrist, February 23-24, 2018
- Orthopaedic Trauma Course for PAs and NPs

- Basic Suture Skills, October 11, 2017
- Orthopaedic Trauma Course for PAs and NPs
 - Basic Suture Skills, October 05, 2016
- OTA Resident Course
 - Management of Open Fractures, October 05, 2016

PROFESSIONAL ORGANIZATIONS

- AOTrauma North America Faculty
 - July 2017 - present
- Orthopaedic Trauma Association
 - 2010 – present
- American Academy of Orthopaedic Surgeons
 - 2009 – present
- Dallas County Medical Association
 - 2013 - Present