

CURRICULUM VITAE

Brinkley Kwyn Sandvall, MD

Assistant Professor of Plastic Surgery
 Director of Pediatric Hand and Upper Extremity Surgery
 Department of Plastic Surgery
 Vanderbilt University Medical Center
 Monroe Carell Jr Children's Hospital at Vanderbilt

Biographical

Baylor College of Medicine Doctor of Medicine Houston, TX	2007 - 2011
Baylor University Bachelor of Science, Biology, <i>Summa Cum Laude</i> Waco, TX	2003 - 2007

Graduate Medical Training

Pediatric Hand and Microvascular Surgery Fellowship Department of Plastic Surgery, The Royal Children's Hospital Melbourne, Australia Chief: Chris Coombs, MBBS, FRACS	2018 - 2019
Hand and Upper Extremity Surgery Fellowship Washington University St. Louis, MO Program Director: Martin I. Boyer, MD, FRCS(C)	2017 - 2018
Plastic and Reconstructive Surgery Residency University of Washington Seattle, WA Division Chief: Nicholas B. Vedder, MD, FACS	2011 - 2017

Program Director: Jeffrey B. Friedrich, MD, FACS

UW Medicine Center for Scholarship in Patient Care Quality and Safety 2014 - 2015
Certificate in Patient Safety and Quality
Seattle, WA

Licensure and Board Certification

Washington, Physician and Surgeon (License # 60470128, Expires 02/14/2018)
Missouri, Physician and Surgeon (License # 2017005189, Expires 1/31/2019)

Honors and Awards

Best Resident Presentation, Hand Session 2016
*Awarded at the American Society of Plastic Surgeon's Annual Meeting,
Senior Resident's Conference.*

Loren Engrav Resident Research Award 2016
Presented to one UW resident for research and research leadership.

Outstanding Performance Annual In-Service Examination 2012 - 2015
Seattle, WA

American Society for Surgery of the Hand Annual Meeting Scholarship 2013 - 2015
Presented by the American Foundation for Surgery of the Hand.
68th Annual Meeting of the ASSH, San Francisco, CA
69th Annual Meeting of the ASSH, Boston, MA
70th Annual Meeting of the ASSH, Seattle, WA

"Best Hand Paper" Award 2013
*Manuscript on flexor tendon repair, rehabilitation, and reconstruction voted best
paper in the journal Plastic and Reconstructive Surgery 2013 hand section.*
Seattle, WA

Eppright Research Award 2011
*Presented to one student by the Department of Orthopedic Surgery
at Baylor College of Medicine for outstanding research.*
Houston, TX

Professional and Volunteer Experience

World Pediatric Project, Touching Hands Project <i>Volunteered with a pediatric hand surgery team.</i> Kingstown, St. Vincent	2018
ReSurge International <i>Volunteered with a reconstructive surgery team at the National Hospital of Pediatrics.</i> Hanoi, Vietnam	2015
Admissions Committee <i>Baylor College of Medicine</i> Houston, TX	2008 - 2011
Student Foundation <i>Raised scholarship funds, recruited students, and promoted alumni connections.</i> Baylor University Waco, TX	2005 - 2007

Research Experience

Department of Orthopaedic Surgery Washington University St. Louis, MO Mentor: Ryan Calfee, MD <i>Compared patient-reported outcomes measures for distal radius fractures.</i>	2017 - 2018
Division of Plastic Surgery University of Washington Seattle, WA Mentor: Jeffrey B. Friedrich, MD <i>Reviewed flexor tendon injuries and driving with upper extremity immobilization.</i> Mentors: Jeffrey B. Friedrich, MD and Kari A. Keys, MD <i>Studied fireworks-related injuries.</i> Mentor: Otway Louie, MD <i>Compared clinical outcomes after ventral hernia repairs using different types of mesh.</i> Mentor: Richard A. Hopper, MD <i>Studied necrotizing soft tissue infections in children.</i> Mentor: Paul Merguerian, MD <i>Quality improvement research, examined factors contributing to prolonged non-operative time.</i>	2011 - 2017

Division of Plastic Surgery
Baylor College of Medicine
Houston, TX

2008 - 2011

Mentor: David T. Netscher, MD

Studied outcomes after basal joint arthroplasty, outcomes after index pollicizations, chest wall reconstruction, and tendon transfers for tetraplegia.

Mentor: Mimi Leong, MD

Investigated patient-reported outcomes after mastectomy in female veterans.

Peer-Reviewed Publications

1. **Sandvall B**, Okoroafor U, Gerull W, Guattery J, Calfee R. “Minimal Clinically Important Difference for PROMIS Physical Function in Patients with Distal Radius Fractures”. *Journal of Hand Surgery*. 42(6):454-459, 2019. PMID 30954311.
2. Okoroafor U, William G, **Sandvall B**, Guattery J, Wright M, Calfee R. “The Impact of Social Deprivation on Pediatric PROMIS Health Scores After Upper Extremity Fracture”. *Journal of Hand Surgery*. 43(10):897-902, 2018. PMID 30232023.
3. Jacobsen L, **Sandvall BK**, Quistberg AD, et al. “Severe fireworks-related injuries: demographics and injury patterns in 294 consecutive patients”. *Accepted, Pediatric Emergency Care*, 6/21/2017.
4. **Sandvall BK**, Jacobsen L, Miller EA, et al. “Fireworks type, injury patterns, and permanent impairment following severe fireworks-related injuries”. *Am J Emerg Med*. 35(10):1469-74, 2017. PMID 28495236.
5. **Sandvall BK**, Keys KA, Friedrich JB. “Severe hand injuries from fireworks: injury patterns, outcomes, and fireworks types”. *Journal of Hand Surgery*. 42(5):385e1-e8, 2017. PMID 28341070.
6. Putnam LR, Richards MK, **Sandvall BK**, Hopper RA, Waldhausen JHT, Harting MT. “Laboratory evaluation for pediatric patients with suspected necrotizing soft tissue infections: a case-control study”. *Journal of Pediatric Surgery*. 51(6):1022-5, 2016. PMID 27233372.
7. **Sandvall BK**, Friedrich JB. “Driving with upper extremity immobilization: a comprehensive review”. *Journal of Hand Surgery*. 40(5):1042-1047, 2015. PMID 24909565.

8. **Sandvall BK**, Suver DW, Said HK, Mathes DW, Neligan PC, Dellinger EP, Louie O. “Comparison of synthetic and biologic mesh in ventral hernia repair using components separation technique”. *Annals of Plastic Surgery*. 76(6):674-9, 2014. PMID 25003419.
9. **Sandvall BK**, Kuhlman-Wood K, Friedrich JB. “Flexor tendon repair, rehabilitation, and reconstruction”. *Plastic and Reconstructive Surgery*. 132(6):1493-1503, 2013. PMID 24281578. (Winner, Best Hand Paper, PRS, 2013).
10. Netscher DT, Aliu O, **Sandvall BK**, Staines KG, Hamilton KL, Salazar-Reyes H, et al. “Functional outcomes of children with index pollicizations for thumb deficiency”. *Journal of Hand Surgery*. 38(2):250-257, 2013. PMID 23290464.
11. Netscher DT, **Sandvall BK**. “Surgical technique: posterior deltoid to triceps tendon transfer”. *Journal of Hand Surgery*. 36A:711-715, 2011. PMID 21463732.
12. **Sandvall BK**, Cameron TE, Netscher DT, Epstein MJ, Goldie Staines K, Petersen NJ. “Basal joint osteoarthritis of the thumb: ligament reconstruction and tendon interposition vs. hematoma distraction arthroplasty”. *Journal of Hand Surgery*. 35A:1968-1975, 2010. PMID 21074953.
13. Netscher DT, Izaddoost S, **Sandvall BK**. “Complications, pitfalls and outcomes following chest wall reconstruction”. *Seminars in Plastic Surgery*. 25(1):1968-1975, 2010. PMID 22294947.

Book Chapters

1. **Sandvall BK**, Friedrich JB. “Soft tissue reconstruction of the hand”. Hammert W and Murray P, eds. In *Hand Surgery Update VI*. American Society for Surgery of the Hand, 2016.

Presentations and Abstracts

1. **Sandvall BK**, Jacobsen L, Miller EA, et al. Effect of fireworks type on injury pattern and permanent impairment following severe fireworks-related injuries. Poster Presentation, American Association of Hand Surgery, Waikoloa, Hawaii. January 10, 2017.
2. **Sandvall BK**, Keys, KA, Friedrich, JB. Severe hand injuries from fireworks: injury patterns, treatment, and fireworks types. Poster Presentation, American Association of Hand Surgery, Waikoloa, Hawaii. January 10, 2017.

3. **Sandvall BK**, Keys KA, Friedrich JB. Analysis of Thumb and First Webspace Injuries due to Fireworks. Poster presentation, American Society for Surgery of the Hand, Austin, TX, October 1, 2016.
4. **Sandvall BK**, Keys KA, Friedrich JB. Analysis of Thumb and First Webspace Injuries due to Fireworks. Oral presentation, American Society of Plastic Surgeons, Los Angeles, CA, September 25, 2016.
5. **Sandvall BK**, Keys KA, Friedrich JB, et al. Severe Injuries from Fireworks: Injury Patterns, Treatment, and Fireworks Types. Oral presentation, American Society of Plastic Surgeons Senior Residents Conference, Los Angeles, CA, September 24, 2016.
6. Friedrich JB, **Sandvall BK**. Driving with upper extremity immobilization. Oral presentation, Australian Hand Surgery Society/American Society for Surgery of the Hand Combined Meeting. Sydney, Australia. April 2016.
7. Jacobson L, Dodge RE, **Sandvall BK**, Miller AE, Keys KA, Friedrich JB. Fireworks-related injuries: patterns, outcomes, and risk factors. Poster presentation, University of Washington Schilling Research Symposium, 22nd Annual Meeting, Seattle, WA. February 26, 2016.
8. **Sandvall BK**, Miller E, Keys KA. Assessment of Risk-Factors for Firework Injuries. Oral presentation, Harborview Injury Prevention and Research Center, Seattle, WA. November 4, 2015.
9. **Sandvall BK**, Curtis K, Delgado C. Reducing Non-Operative Time in the Seattle Children's Hospital Operating Room. Oral presentation, University of Washington Medicine and Seattle Children's Hospital Oversight Committee, Seattle, WA. April 6, 2015.
10. **Sandvall BK**, Friedrich JB. Driving with Upper Extremity Immobilization. Poster presentation, American Association of Hand Surgery Annual Meeting, Kauai, HI. January 8, 2014.
11. **Sandvall BK**, Suver DW, Said HK, Mathes DW, Neligan PC, Dellinger EP, Louie O. Comparison of Synthetic and Biologic Mesh in Ventral Hernia Repair using Components Separation Technique. Poster presentation, University of Washington Schilling Research Symposium, 20th Annual Meeting, Seattle, WA. January 31, 2014.
12. **Sandvall BK**, Cameron TE, Netscher DT, Epstein MJ, Goldie Staines K, Petersen NJ. Basal Joint Osteoarthritis of the Thumb: Ligament Reconstruction and Tendon Interposition vs. Hematoma Distraction Arthroplasty. Poster presentation, Annual Meeting of the American Association for Hand Surgery, Cancun, Mexico, 2011. January 12, 2011.

13. **Sandvall BK**, Cameron TE, Netscher DT, Epstein MJ, Goldie Staines K, Petersen NJ. Basal Joint Osteoarthritis of the Thumb: Ligament Reconstruction and Tendon Interposition vs. Hematoma Distraction Arthroplasty. Poster presentation, James K. Alexander Research Symposium, 10th Annual Symposium. April 1, 2010.
14. **Sandvall BK**, Cameron TE, Netscher DT, Epstein MJ, Goldie Staines K, Petersen NJ. Basal Joint Osteoarthritis of the Thumb: Ligament Reconstruction and Tendon Interposition vs. Hematoma Distraction Arthroplasty. Poster presentation, Texas Society of Plastic Surgeons Annual Meeting, Austin, TX. September 24, 2010.
15. **Sandvall BK**, Leong M. Patient-Reported Outcomes Following Mastectomy with and without Breast Reconstruction. Poster presentation, Texas Society of Plastic Surgeons Annual Meeting, Austin, TX. September 24, 2010.
16. **Sandvall BK**, Leong M. Patient-Reported Outcomes Following Mastectomy with and without Breast Reconstruction. Poster presentation, Michael E. DeBakey Department of Surgery Resident Research Day Symposium. Houston, TX. June 3, 2009.

Professional Memberships

American Society for Surgery of the Hand (ASSH), Candidate Member
American Society of Plastic Surgeons (ASPS), Candidate Member

Professional References

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