

Clayton W. Nuelle, M.D.
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EDUCATION

Fellowship	Sports Medicine, University of Missouri Hospital and Clinics Department of Orthopaedic Surgery Columbia, MO	2014-2015
Residency	Orthopaedic Surgery, University of Missouri Hospital and Clinics Department of Orthopaedic Surgery Columbia, MO	2009-2014
MD	Loyola University Chicago-Stritch School of Medicine Maywood, IL	2005-2009
BS	University of Notre Dame Notre Dame, IN Major: Science Pre-professional Studies Minor: Anthropology	2001-2005

MEDICAL LICENSURE

Texas	2017-Present
Missouri	2009-Present

BOARD CERTIFICATION

American Board of Orthopaedic Surgery, Part I: Passed	08/2015
American Board of Orthopaedic Surgery, Part II: Passed	08/2017

APPOINTMENTS

The San Antonio Orthopaedic Group San Antonio, Texas	09/17-Present
Assistant Clinical Professor, Orthopaedic Surgery Division of Sports Medicine University of Missouri-Columbia Columbia, MO	08/15-07/17

CURRENT HOSPITAL AFFILIATIONS

The Orthopaedic Institute, San Antonio, Texas	09/17-Present
Resolute Health Hospital, New Braunfels, Texas	09/17-Present
Christus Santa Rosa Medical Center, San Antonio, Texas	09/17-Present
Baptist Health System, San Antonio, Texas	09/17-Present
Methodist Health System, San Antonio, Texas	09/17-Present
Methodist Stone Oak Hospital, San Antonio, Texas	09/17-Present

PREVIOUS HOSPITAL AFFILIATIONS

University of Missouri Hospital and Clinics, Columbia, Missouri	07/09-07/17
Missouri Orthopaedic Institute, Columbia, Missouri	06/10-07/17
Women's & Children's Hospital, Columbia, Missouri	07/09-07/17
Harry S. Truman VA Medical Center, Columbia, Missouri	07/09-07/17
Capital Region Medical Center, Jefferson City, Missouri	07/09-07/17

PROFESSIONAL SOCIETY MEMBERSHIPS

American Academy of Orthopaedic Surgeons-diplomate member	2009-Present
American Orthopaedic Society for Sports Medicine-member	2014-Present
Arthroscopy Association of North America-member	2013-Present
Mid-America Orthopaedic Association-member	2017-Present

Texas Medical Association-member	2017-Present
Bexar County Medical Society-member	2017-Present
Missouri State Orthopaedic Association-member	2009-Present
Notre Dame Orthopaedic Society-member	2013-Present
American Medical Association-member	2005-2010
Chicago Medical Association-member	2005-2009
Alpha Epsilon Delta Medical Honor Society-inductee	2005

COMMITTEES and SERVICE

Editorial Board Member-Arthroscopy: The Journal of Arthroscopic and Related Surgery	2018-Present
▪ Serve on editorial board for the journal	
Journal of Knee Surgery-Reviewer	2015-Present
▪ Review original manuscripts submitted for publication to the journal	
Arthroscopy: The Journal of Arthroscopic and Related Surgery- Reviewer	2014-Present
▪ Review original manuscripts submitted for publication to the journal	
Surgical Council-Resolute Health Hospital	2017-Present
▪ Planning of OR scheduling, block time, OR utilization, Implant requests/purchasing	
Quality Improvement Committee-Resolute Health Hospital	2017-Present
▪ Peer review of patient outcome measures and patient events for Orthopaedic service line	
Residency Educational Committee-University of Missouri	2016-Present
▪ Facilitate communications between Orthopaedic residency alumni network	
Surgical Service Line Review Committee-Capital Region Medical Center	2015-2017
▪ Planning of OR scheduling, block time, OR utilization and call schedules	
Quality Improvement Committee-Capital Region Medical Center	2016-2017
▪ Peer review of patient outcome measures and patient events for Orthopaedic service line	
Product Improvement and Purchasing Committee-Capital Region Medical Center	2016-2017
▪ Worked with OR staff and hospital to approve and purchase new OR and hospital equipment and materials	
A.T. Still University-Medical student advisor	2016-2017
▪ Clinical advisor to medical students in first year of training	
University of Missouri-Medical student advisor	2016-2017
▪ Clinical advisor to medical students in third year of training	
University of Missouri-Athletic training student educator	2015-2017
▪ Clinical educator for students in the athletic training program	

TEAM COVERAGE EXPERIENCE

University of Missouri, Columbia, MO	2012-2016
▪ Varsity football training camp, training room and game coverage, Assistant Physician	
▪ Mizzou athletic training room physician coverage	
▪ Fall and Spring sports team physicals	
Truman State University, Kirksville, MO	2014-2015
▪ Varsity football training camp, training room and game physician coverage	
Central Methodist University, Fulton, MO	2012-2015
▪ Fall and Spring sports team physicals	
Westminster University, Fulton, MO	2012-2014
▪ Fall sports team physicals	
Columbia College, Columbia, MO	2012-2015
▪ Fall and Spring sports team physicals	
William Woods University, Fulton, MO	2012-2014
▪ Fall sports team physicals	
Missouri Orthopaedic Institute, Columbia, MO	2015-2017
▪ Local high school sports physicals	
Capital Region Medical Center, Jefferson City, MO	2015-2017
▪ Local high school sports physicals	
Hickman High School, Columbia, MO	2011-2016
▪ Varsity football physician game coverage	
Jordanton High School, Jordanton, TX	2017-Present
▪ Varsity football physician game coverage	
Geneva High School, Boerne, TX	2017-Present
▪ Varsity football physician game coverage	

HONORS AND AWARDS

Rising Star Doctors 2018	2018
▪ Awarded annually to top young physicians, as voted by peers, <i>San Antonio Scene Magazine</i>	
Best S.A. Doctors 2018	2018
▪ Awarded annually to top physicians, as voted by peers, <i>San Antonio Scene Magazine</i>	
University of Missouri Orthopaedic Association Research Award, Univ. of Missouri	2015
▪ \$5,000 award to study histologic inflammatory changes within the proximal biceps in patients with biceps tendinitis undergoing a biceps tenodesis	
Missouri Orthopaedic Institute Award for Outstanding Orthopaedic Resident, Univ. of Missouri	2014
▪ Awarded annually to one outstanding senior resident	
Dept of Orthopaedic Surgery Barry J. Gainor, MD Resident Award in Education, Univ. of Missouri	2014
▪ Awarded annually to the “best teaching resident”	
Arthroscopy Association of North America Resident Scholarship	2014
▪ Scholarship awarded to attend AANA annual meeting and course	
William Enneking Pathology Seminar Diagnostic/Management Problem Solving, Univ. of Florida	2013
▪ First place in the final seminar diagnostic and problem-solving competition	
Department of Orthopaedic Surgery Allen Menard Leadership Award, Univ. of Missouri	2012
▪ Awarded annually to one resident who demonstrates outstanding leadership and service	
Fred Miller, MD Leadership and Service Scholarship, Loyola University-Chicago	2009
▪ Awarded to one medical student who demonstrates outstanding leadership and service during their clerkships	
Salerno Academic Scholarship, Loyola University-Chicago	2007
▪ Awarded to medical student who demonstrates academic excellence in pre-clinical years	
Dean’s List, University of Notre Dame	2002-2005

PEER REVIEWED PUBLICATIONS, ABSTRACTS AND RESEARCH

1. Worley JR, Brimmo OB, **Nuelle CW**, Cook JL, Stannard JP. Incidence of Concurrent Peroneal Nerve Injury in Multiligament Knee Injuries and Outcomes after Knee Reconstruction. *J Knee Surg.* 2018 Jun 13. [Epub ahead of press]. PMID: 29898474.
2. **Nuelle CW**, Cook CR, Stoker AM, Cook JL, Sherman SL. In vivo toxicity of local anesthetics and corticosteroids on supraspinatus tenocyte cell viability and metabolism. *Iowa Orthop J.* 2018;38:107-112. PMID: 30104932.
3. **Nuelle CW**, Stokes D, Kuroki K, Crim J, Sherman SL. Radiologic and histologic evaluation of proximal bicep pathology in patients with chronic biceps tendinopathy undergoing open subpectoral biceps tenodesis. *Arthroscopy.* 2018 Jun;34(6):1790-1796. PMID: 29573932.
4. **Nuelle CW**, Milles J, Pfeiffer F, Stannard JP, Smith PA, Kfuri M, Cook JL. Biomechanical comparison of five different PCL reconstruction techniques. *J Knee Surg.* 2017 Jul;30(6):523-531. PMID: 27780285.
5. **Nuelle CW**, Cook C, Stoker AM, Cook JL, Sherman SL. In vitro toxicity of local anesthetics and corticosteroids on tenocytes. *J Ortho Translat.* 2017; 8:20-24.
6. Milles J, **Nuelle CW**, Pfeiffer FM, Stannard JP, Smith PA, Kfuri M, Cook JL. Biomechanical comparison: single-bundle versus double-double bundle posterior cruciate ligament reconstruction techniques. *J Knee Surg.* 2017 May;30(4):347-351. PMID: 27543681.
7. **Nuelle CW**, Nuelle JAV, Cook JL, Stannard JP. Patient factors associated with osteochondral allograft success in knees with or without co-morbidities. *J Knee Surg.* 2017 Feb;30(2):179-184. PMID: 27228198.
8. **Nuelle CW**, Nuelle JAV, Cook JL, Stannard JP. Outcomes associated with osteochondral allografting for large cartilage defects in knees with or without co-morbidities. *Arthroscopy.* 2015 June;31(6):e23.
9. **Nuelle CW**, Cook J, Gallizzi M, Smith PA. Posterior single incision semitendinosus harvest for a quadrupled ACL graft construct: final properties correlated to patient Gender, Height, Weight and BMI. *Arthroscopy.* 2015 Apr;31(4):684-90. PMID: 25522679.

10. Stannard JP, **Nuelle CW**, McGwin G and Volgas D. Hinged external fixation in the treatment of knee dislocations: A prospective randomized study. *J Bone Joint Surg Am.* 2014 Feb 4;96(3):184-91. PMID: 24500579.
11. Smith PA, **Nuelle CW**, Bradley JP. Arthroscopic repair of a posterior bony humeral avulsion of the glenohumeral ligament with associated teres minor avulsion. *Arthroscopy Techniques.* 2014 Feb;3(1):e89-94. PMID: 24749048.
12. **Nuelle CW**, Stannard JP. Application of a Compass Knee Hinge: Surgical technique. *JBJS Essential Surgical Techniques.* 2014 Jan 22;4(1):e21-6.
13. Nuelle JAV, **Nuelle CW**, Reiter MJ, Sherman SL. Arthroscopic Extraction of Bullet Fragment Adjacent to the ACL. *Arthroscopy.* 2015 Nov;31(11):A15.
14. Sherman SL, Brimmo OB, **Nuelle CW**. Do lateral extraarticular reconstructions reduce rotatory instability in the anterior cruciate ligament deficient knee? A cadaveric study using computer navigation. Manuscript submitted.
15. Smith PA, **Nuelle CW**, Potter H, Cook JL. MRI and CT assessment of bone structural and reactive integrity after arthroscopic shoulder repair using biocomposite suture anchors. Manuscript in progress.
16. Krumme JW, **Nuelle CW**, Sherman SL. Epidemiological evidence for common injuries by position in American football: a current review. Manuscript submitted.
17. Stannard JP, **Nuelle CW**, Cook J, Stoker A. Long term outcomes of osteochondral allografts for osteochondral defects of the knee: a prospective study. In data collection.
18. **Nuelle CW**, Stannard JP, Cook J, Stoker A. Safety and efficacy of a novel articular cartilage graft preservation system: a pilot study. In data collection.

TEXTBOOK CHAPTERS/EDITORIALS

1. Sherman SL, Voss E, Garrone A, **Nuelle CW**., Debridement. *Cartilage Restoration: Practical Clinical Applications (2nd edition)*. Springer: New York, NY. In Press.
2. **Nuelle CW**. Cartilage Transplantation. *MD News*. San Antonio edition. Feb 2018.
3. **Nuelle CW**, Farr J. Patellofemoral cartilage restoration: internal fixation of osteochondritis dissecans lesions. *J Knee Surg.* Mar 2018;31:206–211. PMID: 28977816.
4. Sherman SL, Thyssen E, **Nuelle CW**. Osteochondral autologous transplantation. *Clin Sports Med.* 2017 Jul;36(3):489-500. PMID: 28577708.
5. Sherman SL, **Nuelle CW**, Brunkhorst J, Latterman C. Meniscal allograft transplantation. *AAOS Let's Discuss: Joint Preservation of the Knee*. AAOS: Rosemont, IL. 2016.
6. Sherman SL, **Nuelle CW**, Farr J. Issues Specific to Cartilage Repair in the Patellofemoral Joint. *AAOS Let's Discuss: Joint Preservation of the Knee*. AAOS: Rosemont, IL. 2016.
7. **Nuelle CW**, Stannard JP. Posterior cruciate ligament, posteromedial corner and posterolateral corner reconstruction. *Posterior Cruciate Ligament Injuries: A Practical Guide to Management (2nd edition)*. Springer: New York, NY. 2015.
8. Stannard JP, **Nuelle CW**. Treatment of the multi-ligament injured knee. *AANA Advanced Arthroscopic Surgical Techniques: The Knee*. SLACK: Thorofare, NJ. 2016.
9. Sherman SL, Plackis AC, **Nuelle CW**. Patellofemoral Anatomy and Biomechanics. *Clin Sports Med.* 2014 Jul;33(3):389-401. PMID: 24993406.

INTERNATIONAL/NATIONAL PODIUM PRESENTATIONS, POSTERS AND LECTURES

1. **Nuelle CW**, Stokes D, Kuroki K, Crim J, Sherman S. "The Location and Extent of Pathology in Chronic Biceps Tendinopathy Patients undergoing Subpectoral Biceps Tenodesis." Mid-America Annual Meeting. Podium. April 2018.
2. **Nuelle CW**. "Cartilage Restoration Options in 2017." Notre Dame Orthopaedic Society Meeting. Podium. Oct 2017.
3. **Nuelle CW**, Stokes DC, Kuroki K, Cook JL, Sherman SL. "What is the location and extent of pathology in surgical cases of chronic biceps tendinopathy undergoing subpectoral biceps tenodesis?" Arthroscopy Association of North America Annual Meeting. Poster. May 2017.
4. Milles J, **Nuelle CW**, Cook JL, Stannard J, Smith PA, Kfuri M, Pfeiffer F. "Biomechanical comparison of double bundle vs. single bundle PCL reconstruction techniques." Mid-America Annual meeting. Podium. March 2016.
5. **Nuelle CW**, Sherman SL, James CH, Stoker AM, Cook JL. "In vivo Toxicity of Local Anesthetics and Corticosteroids on Tendon cell Viability and Metabolism." Arthroscopy Association of North America Annual Meeting. Poster. April 2016.
6. **Nuelle CW**, Cook JL, Pfeiffer F, Stannard JP, Smith PA, Kfuri M, Milles J. "Biomechanical Comparison of Five PCL Reconstruction Techniques." American Academy of Orthopaedic Surgeons Annual Meeting. Podium. March 2016.
7. **Nuelle CW**, Nuelle JAV, Cook JL, Stannard JP. "Influence of Donor Age and Graft Storage Duration on Outcomes of Osteochondral Allografting of the Knee." American Academy of Orthopaedic Surgeons Annual Meeting. Poster. March 2016.
8. Sherman SL, Gulbrandsen TR, Monibi F, **Nuelle CW**, Cook JL, Stannard JP. "Meniscus Replacement, Transplantation, and Regeneration: State of the Art in 2015." American Academy of Orthopaedic Surgeons Annual Meeting. Scientific Exhibit. March 2016.
9. **Nuelle CW**, James CH, Stoker AM, Cook JL, Sherman SL. "In Vitro Toxicity of Local Anesthetics and Corticosteroids on Supraspinatus Tenocyte Viability and Metabolism." Orthopaedic Research Society Annual Meeting. March 2016.
10. **Nuelle CW**, Nuelle JA, Cook J, Stannard JP. "Patients Factors Associated with Osteochondral Allograft success in Knees with or without Co-morbidities." American Orthopaedic Society for Sports Medicine Annual meeting. Orlando, Florida. July 2015.
11. **Nuelle CW**, Nuelle JA, Cook J, Stannard JP. "Outcomes Associated with Osteochondral Allografting for Large Cartilage Defects in Knees with or without Co-morbidities." Arthroscopy Association of North America Annual meeting. Los Angeles, CA. April 2015.
12. **Nuelle CW**, Cook J, Pfeiffer F, Stannard JP, Smith PA, Kfuri M. "Biomechanical Comparison of PCL reconstruction techniques." Comparative Orthopaedics Day, University of Missouri. April 2015.
13. **Nuelle CW**, Dammerich D, Ander MA, Patwardhan AW. Decreased Disc Pressure after Vertebral Endplate Fracture. Is it an Additional Risk Factor for Fractures at the Adjacent Levels? Poster Presentation; Loyola University Research Symposium, Maywood, IL. April 2006.

REGIONAL/LOCAL PODIUM PRESENTATIONS, POSTERS AND LECTURES

1. **Nuelle CW**. "What is Cartilage Surgery?" Physician education series, Mission Trail Hospital. San Antonio, TX. Dec 2017.
2. **Nuelle CW**. "Contract Negotiations." Orthopaedic resident lecture series, University of Missouri. June 2017.
3. **Nuelle CW**. "Common Shoulder Injuries: Update." Annual Sports Medicine Update Conference. University of Missouri, April 2017.

4. **Nuelle CW.** “Midfoot Injuries in Athletes.” Sports Medicine Conference. University of Missouri. December 2016.
5. **Nuelle CW.** “Acromioclavicular Joint Injuries: Surgical Management.” Orthopaedic resident lecture series, University of Missouri. November 2016.
6. **Nuelle CW.** “Need to Know Financial topics.” Emergency Medicine Resident lecture series, University of Missouri. October 2016.
7. **Nuelle CW.** “Contract Negotiations.” Orthopaedic resident lecture series, University of Missouri. June 2016.
8. **Nuelle CW.** “Acromioclavicular joint surgical techniques.” Orthopaedic resident lecture series, University of Missouri. February 2016.
9. **Nuelle CW.** “Financial Topics Every Resident Should Know.” Orthopaedic resident lecture series, University of Missouri. February 2016.
10. **Nuelle CW.** “Acromioclavicular joint injuries and management.” Orthopaedic resident lecture series, University of Missouri. October 2015.
11. **Nuelle CW.** “Orthopaedic Injuries and Emergencies.” Emergency Nurses Association Annual Meeting. Columbia, MO. September 2015.
12. **Nuelle CW, Nuelle JA, Cook J, Stannard JP.** “Patients Factors Associated with Osteochondral Allograft success in Knees with or without Co-morbidities.” Fellows Research Day. University of Missouri. July 2015.
13. **Nuelle CW.** “The Anterolateral Ligament: Anatomy, Biomechanics and Clinical Implications.” Grand Rounds, University of Missouri. May 2015.
14. **Nuelle CW.** “Orthopaedic Infection.” Sports Medicine Conference, University of Missouri. March 2015.
15. **Nuelle CW, Stannard JP, McGwin G, Volgas DA.** “Hinged External Fixation in the Treatment of Knee Dislocations.” Research Day, University of Missouri. June 2014.
16. **Nuelle CW.** “Patellar Instability.” Grand Rounds, University of Missouri. July 2013.
17. **Nuelle CW.** “Combined ACL, MCL, Meniscus and Patellar tendon injury in the Elite Athlete: Case Report.” Sports Medicine Case Presentation Series, University of Missouri. June 2013.
18. **Nuelle CW.** “Treatment options in a young patient with multiple failed ACL reconstructions: Case review.” Sports Medicine Case Presentation Series, University of Missouri. March 2013.
19. **Nuelle CW.** “Musculoskeletal Pathology.” Resident Lecture Series, University of Missouri. September 2012.
20. **Nuelle CW.** “Treatment options for Massive Rotator Cuff tear in a Young Patient: Case Review.” Sports Medicine Case Presentation Series, University of Missouri. September 2012.
21. **Nuelle CW.** “Pathology Conference: Fibrous Dysplasia.” Resident Lecture Series. University of Missouri. Feb 2012.
22. **Nuelle CW.** “Musculoskeletal Basic Science.” Surgery Grand Rounds, University of Missouri. January 2010.

SCIENTIFIC MEETINGS, CONFERENCES AND COURSES ATTENDED

Mid-America Orthopaedic Association (MAOA) Annual Meeting. San Antonio, TX	April 2018
Stryker Mako Arthroplasty Course. Ft. Lauderdale, FL	March 2018
22nd Annual Notre Dame Orthopaedic Society Meeting. Notre Dame, IN	Oct 2017
36th Annual Arthroscopy Association of North America (AANA) Spring Meeting. Denver, CO	May 2017
Mid-America Orthopaedic Association (MAOA) Annual Meeting. Amelia Island, FL	April 2017

American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting. Orlando, FL	March 2016
Orthopaedic Research Society (ORS) Annual Meeting. Orlando, FL	March 2016
20th Annual Notre Dame Orthopaedic Society Meeting. Notre Dame, IN	Sept 2015
American Orthopaedic Society for Sports Medicine (AOSSM) Annual Meeting. Orlando, FL	July 2015
34th Annual Arthroscopy Association of North America (AANA) Spring Meeting. Los Angeles, CA	April 2015
Advanced Arthroscopy Fellows Course, Arthrex. Naples, FL	April 2015
10th Annual Advances in Orthopaedic Sports Medicine and Trauma. Naples, FL	Feb 2015
Fellows Advanced Shoulder Arthroplasty Course, Tornier. Las Vegas, NV	Nov 2014
33rd Annual Arthroscopy Association of North America (AANA) Spring Meeting. Hollywood, FL.	May 2014
9th Annual Advances in Orthopaedic Sports Medicine and Trauma. Naples, FL	Feb 2014
Football Friday Nights Symposium. St. Louis, MO.	Oct 2013
Advanced Shoulder Course, Arthrex. Kansas City, KS.	July 2013
William F. Enneking Musculoskeletal Pathology Seminar. University of Florida.	April 2013
Orthotics Review Course for Physicians and Healthcare Professionals. University of Missouri.	June 2012
AO Basic Principles and Techniques of Operative Fracture Management. Ft. Lauderdale, Florida.	Oct 2010
Stryker Orthopaedic Surgical Training Program. Las Vegas, NV.	May 2010