

NOLAN M WESSELL, MD

12631 E. 17th Ave., Mailstop B202
Aurora, CO 80045



ACADEMIC APPOINTMENTS

2018 - Present **Assistant Professor**
Department of Orthopedic Surgery
University Of Colorado School Of Medicine
Aurora, CO

EDUCATION AND TRAINING

2020 - Present **University of Colorado – Denver**
Denver, CO
Masters in Business Administration Program

2017 - 2018 **University of Colorado School of Medicine**
Department of Orthopedic Surgery
Aurora, CO
Orthopaedic Spine Surgery Fellow

2016 - 2017 **Henry Ford Health System**
Department of Orthopaedic Surgery
Detroit, MI
Administrative Chief Resident

2012 - 2017 **Henry Ford Health System**
Department of Orthopaedic Surgery
Detroit, MI
Orthopaedic Surgery Residency

2008 - 2012 **Wayne State University School of Medicine**
Detroit, MI
Doctor of Medicine
Graduated with Honors

2003 - 2006 **University of Wisconsin**
Madison, WI
Bachelor of Science - Biochemistry
Graduated with Honors

1999 - 2003 **Stevens Point Area Senior High**
Stevens Point, WI
High School Diploma
Graduated as Valedictorian

HONORS AND AWARDS

May 2021	International Society for the Advancement of Spine Surgery Young Surgeon Grant Award
May 2017	Nominee - Henry Ford Health System Resident of the Year
June 2016	American Orthopaedic Association (AOA) Resident Leaders Forum Inductee
June 2016	Michigan Orthopaedic Society Annual Meeting - Best Paper Award
February 2016	2 nd Place, Henry Ford Health System Medical Education Research Symposium
January 2016	Mid-America Orthopaedic Association Educational Grant Recipient
May 2015	1 st Place, Detroit Academy of Orthopaedic Surgeons Resident Research Symposium
May 2015	3 rd Place, Detroit Academy of Orthopaedic Surgeons Resident Research Symposium
February 2015	3 rd Place, Henry Ford Health System Medical Education Research Symposium
April 2014	Edward D. Henderson, MD Physicians-In-Training Research Award
2011-2012	O. B. Weed Scholarship - Wayne State University School of Medicine
October 2011	Alpha Omega Alpha Medical Honor Society
2010 - 2011	Wayne State University School of Medicine - Year III Comprehensive Honors
2009 - 2010	Prentis Foundation Medical Scholarship - Wayne State University School of Medicine
2008 - 2009	Wayne State University School of Medicine - Year I Comprehensive Honors
2009	Iber Health Education Scholarship - Community Foundation of Central Wisconsin
2005	Dean's List - University of Wisconsin
2003	William F. Vilas Scholarship - University of Wisconsin

PROFESSIONAL MEMBERSHIPS

2021 - present	International Society for the Advancement of Spine Surgery
2020 - present	AOA Emerging Leaders Program
2018 - present	Colorado Orthopedic Society
2012 - present	American Academy of Orthopaedic Surgeons
2014 - present	North American Spine Society
2017 - present	American Orthopedic Association
2011 - present	Alpha Omega Alpha Medical Honor Society
2015 - 2018	Mid-America Orthopaedic Association
2014 - 2018	Detroit Academy of Orthopaedic Surgeons
2009 - 2017	Orthopaedic Research Society

LEADERSHIP POSITIONS & COMMITTEES

2021 - present	University of Colorado School of Medicine- Junior Faculty Committee
2020 - present	UC Health Highlands Ranch Hospital Spine Steering Committee
2020 - present	Colorado Orthopedic Society - Executive Board Member
2019 - present	CU Medicine Department of Orthopedic Surgery - Resident Selection Committee
2018 - present	CU Medicine Department of Orthopedic Surgery - Spine Fellowship Selection Committee
2018 - present	UC Health Highlands Ranch Hospital Orthopedic Service Line Committee
2018 - 2019	UC Health Multidisciplinary Opioid/Pain Management Committee
2018 - 2019	UC Health Highlands Ranch Hospital Orthopedic Planning Committee

LICENSURES AND CERTIFICATIONS

October 2021	American Board of Orthopaedic Surgery Part II - Scheduled Original Testing Dates Delayed Due to COVID-19
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September 2017	American Board of Orthopaedic Surgery Part I - Passed Board Eligible
2017 - present	Colorado Medical License
2012 - 2017	Michigan Educational Medical License
2010, 2012, 2014 2016, 2018	Basic and Advanced Cardiac Life Support
2013	Fundamentals of Critical Care Support
2013	USMLE Step III
2011	USMLE Step II Clinical Skills (CS)
2011	USMLE Step II Clinical Knowledge (CK)
2010	USMLE Step I

PROFESSIONAL DEVELOPMENT

October 2020	American Orthopedic Association (AOA) Emerging Leaders Forum Virtual Due to COVID-19
July 2020	University of Colorado - Communicating as a Leader Denver, CO
March 2020	OrthoFix M6-C Training Course Denver, CO
November 2019	Cervical Spine Research Society Annual Meeting New York, NY
April 2018	Medacta USA ALIF Training Course San Francisco, CA
October 2017	Mobi-C Surgeon's Training Course Denver, CO
March 2017	American Academy of Orthopaedic Surgeons Annual Meeting San Diego, CA
November 2016	Medscape Physician Business Academy Virtual

June 2016	American Orthopedic Association (AOA) Resident Leaders Forum Seattle, WA
April 2016	Mid-America Orthopaedic Association Annual Meeting Bonita Springs, FL
December 2015	Cervical Spine Research Society Annual Meeting San Diego, CA
April 2015	Michigan Orthopaedic Society Annual Trauma Symposium Plymouth, MI
April 2015	The Atlas Forum, Resident & Fellows Spine Course Dallas, TX
March 2015	AANA Fundamentals in Arthroscopy Course Chicago, IL
June 2014	AO Basic Fracture Course La Jolla, CA
June 2013	Michigan Orthopaedic Society Annual Meeting Mackinac Island, MI

PEER-REVIEWED PUBLICATIONS

1. **Wessell, NM;** Wolverson, E; Ross, P; Akiyama, M; Lindley, E; Patel, VV. Opioid Prescription Monitoring in Pre- and Post-Operative Sacroiliac Joint Fusion Patients. *International Journal of Spine Surgery* Accepted March 2021.
2. **Wessell, NM;** Kleck, CJ; Ou-Yang, DC; Goldstein, C; Burger, E; Patel, VV. The University of Colorado Virtual Physical Exam for Spine Surgeons: A Preliminary Study. *Orthopedics*. Accepted December 2020.
3. Lindsay Welton, BA; Brandi Krieg, BS; Deepa Trivedi, BS; Rahwa Netsanet, BS; **Nolan Wessell, MD;** Andriy Noschenko, PhD; Vikas Patel, MD. Comparison of Adverse Outcomes Following Placement of Superior Interspinous Spacer Device versus Laminectomy and Laminotomy. *International Journal of Spine Surgery* Accepted July 2020.
4. David Ou-Yang, MD. Mark Moldavsky, MS; **Nolan Wessell, MD;** Mariano Titanti; Erika Matheis; MS; Brandon S. Bucklen, PhD; Vikas Patel, MD. Evaluation of Spinous Process Tethering at the Proximal End of Rigid Constructs: In Vitro Range of Motion and Intradiscal Pressure at Instrumented and Adjacent Levels. *International Journal of Spine Surgery*. 2020 Aug; 14(4):571-579. PMID: 32986580.
5. Ayers, Reed; Patel, Vikas; Burger, Evalina; Cain, Christopher; Ou-Yang, David; **Wessell, Nolan;** Kleck, Christopher. Corrosion of Titanium Spinal Explants is Similar to That

- Observed in Oil Field Line Pipe Steel: Evidence of Microbial-Influenced Corrosion In Vivo. *Orthopedics*. 2020 Jan 1; 43(1): 62-67. PMID: 31958342.
6. Frisch, Nicholas B; **Wessell, Nolan M**; Jildeh, Toufic; Greenstein, Alexander; Guthrie, S. Trent. Early-stage Chronic Kidney Disease Increases Hip Fracture Mortality. *Journal of Surgical Orthopaedic Advances*. 2018 Fall; 27(3):226-230. PMID: 30489248
 7. Frisch, Nicholas B; **Wessell, Nolan M**; Charters, Michael A; Greenstein, Alexander; Guthrie, S. Trent. Hip Fracture Mortality: Differences Between Intertrochanteric and Femoral Neck Fractures. *Journal of Surgical Orthopaedic Advances*. 2018 Spring; 27(1): 64-71. PMID: 29762119.
 8. **Wessell, Nolan M**; Halanski, Matthew A; Martus, Jeffrey E; Snyder, Brian; Truong, Walter. What's New in Pediatric Spine Growth Modulation and Implant Technology. *Journal of Pediatric Orthopaedics*. 2018 Jan; 38(1): e3-e13. doi: 10.1007/s00256-017-2592-y. PMID: 27403917
 9. Frisch, Nicolas B; **Wessell, Nolan M**; Taliaferro, Kevin; Van Holsbeeck, Marnix; Silverton, Craig D. Ultrasound Findings in Asymptomatic Patients with Modular Metal on Metal Total Hip Arthroplasty. *Skeletal Radiology*. 2017 May; 46(5): 641-649. doi: 10.1007/s00256-017-2592-y. PMID: 28204856
 10. Frisch, Nicholas B; **Wessell, Nolan M**; Charters, Michael A; Cann, Brett; Greenstein, Alexander; Silverton, Craig D. Effect of Body Mass Index on Blood Transfusion in Total Hip and Knee Arthroplasty. *Orthopedics*. 2016 May 12; 1-6. doi: 10.3928/014774477-20160509-04. PMID: 27172370.
 11. Frisch, Nicholas B; **Wessell, Nolan M**; Van Holsbeeck, Marnix; Silverton, Craig D. Ultrasound Findings in Asymptomatic Patients with Dual Taper Modular Total Hip Arthroplasty. *Orthopaedic Proceedings*. 2016 May; 98-B (Supp 7): 141.
 12. **Wessell, Nolan M**; Khalil, Jad G; Zavatsky, Joe; Ghacham, Wael; Bartol, Stephen P. Verification of Nerve Decompression Using Mechanomyography. *The Spine Journal*. 2016 Feb 29. doi: 10.1016/j.spinee.2016.02.025. PMID: 26940191
 13. Charters, Michael A; Frisch, Nicholas B; **Wessell, Nolan M**; Dobson, Christopher; Les DVM, Clifford M; Silverton, Craig D. Rivaroxaban versus Enoxaparin for Venous Thromboembolism Prophylaxis after Hip and Knee Arthroplasty. *Journal of Arthroplasty*. 2015 Jul; 30(7): 1277-1280. doi 10.1016/j.arth.2015.02.009. PMID: 25724111
 14. Frisch NB; **Wessell NM**; Charters MA; Sikora-Klak J; Yu S; Dobson C; Jeffries JJ; Silverton CD; Laker M. Predictors and Complications of Blood Transfusion in Total Hip and Knee Arthroplasty. *Journal of Arthroplasty*, 2014 Sep; 29 (9 Suppl): 189-192. doi: 10.1016/j.arth.2014.03.048. PMID: 25007727
 15. Stockwell, PJ; **Wessell, NM**; Reed, DR; Kronenwetter-Koepel, TR; Reed, KD; Turchi, TR; Meece, JK. A Field Evaluation of Four Larval Mosquito Control Methods in Urban Catch

Basins. *Journal of the American Mosquito Control Association*, 2006 Dec; 22(4): 666-71. PMID: 17304935

TEXTBOOK CHAPTERS

1. **Wessell, NM.** “Initial Evaluation of the Adult Spinal Deformity Patient”. in: *Comprehensive Guide to Adult Spine Deformity*. Scheduled Publication 2021

ORAL PRESENTATIONS

1. Kleck, Christopher; Ayers, Reed; Patel, Vikas; Ou-Yang, David; **Wessell, Nolan**; Cain, Christopher; Burger, Evalina. *Multiple Clinical Causes for Metallosis in Spine Instrumentation: A Single Center Study*.
October 2020 EuroSpine 2020 (Virtual)
Annual Meeting - Vienna, Austria
2. **Wessell, Nolan M**; Ross, Phillip; Akiyama, Michelle; Lindley, Emily; Patel, Vikas. *Opioid Prescription Monitoring in Pre- and Post-Operative Sacroiliac Joint Fusion Patients*
October 2020 EuroSpine 2020 (Virtual)
Annual Meeting - Vienna, Austria

February 2020 International Society for the Advancement of Spine Surgery
Annual Meeting - San Juan, Puerto Rico

May 2020 American Bone and Joint Surgeons (ABJS)
Annual Meeting - Sea Island, GA
(Canceled due to COVID)
3. Ayers, Reed; Patel, Vikas; Burger, Evalina; Cain, Christopher; Ou-Yang, David; **Wessell, Nolan**; Kleck, Christopher. *A Comparative Analysis of Bone Strain in Pullout vs Toggle Pedicle Screw Testing*
February 2020 International Society for the Advancement of Spine Surgery
Annual Meeting - San Juan, Puerto Rico
4. Calabrese, David; Burger, Evalina; Patel, Vikas; Cain, Christoph; Ou-Yang, David; **Wessell, Nolan**; Noschenko, Andriy; Kleck, Christopher. *Life Is Not Necessarily a Kyphosing Event: Evaluation of Sagittal Parameters of Standing Full Body Radiographs in Asymptomatic Volunteers over Decades of Life*
February 2020 International Society for the Advancement of Spine Surgery
Annual Meeting - San Juan, Puerto Rico
5. **Wessell, Nolan M**; Ghacham, Wael; Khalil, Jad G; Zavatsky, Joseph; Bartol, Stephen P. *Verification of Nerve Decompression Using Mechanomyography*.
April 2016 AO Spine Global Spine Congress & World Forum for Spine
Research
Annual Meeting - Dubai, UAE

- March 2016 Congress of Neurological Surgeons Spine Summit 2016
Annual Meeting - Orlando, FL
- November 2015 Society for Minimally Invasive Spine Surgery (SMISS)
Global Forum - Las Vegas, NV
6. Frisch, Nicolas B; Taliaferro, Kevin; **Wessell, Nolan M**; Ananthasubramaniam, Karthikeyan; Brooks, Kristin; Silverton, Craig D. *Prevalence of Metal Ion Induced Subclinical Cardiomyopathy in Modular Metal on Metal Total Hip Arthroplasty.*
February 2016 2nd Place - Henry Ford Health System
Medical Education Research Symposium - Detroit, MI
7. Frisch, Nicolas B; **Wessell, Nolan M**; Taliaferro, Kevin; Van Holsbeeck, Marnix; Silverton, Craig D. *Ultrasound Findings in Asymptomatic Patients with Dual Taper Modular Total Hip Arthroplasty.*
April 2016 Mid-America Orthopaedic Association
Annual Meeting - Bonita Springs, FL
February 2016 Henry Ford Health System
Medical Education Research Symposium - Detroit, MI
October 2015 International Society for Technology in Arthroplasty (ISTA)
Annual Congress - Vienna, Austria
8. **Nolan Wessell, MD**; Nicholas Frisch, MD|MBA; Michael Charters, MD; Ed Peterson, PhD; Alex Greenstein, BS; Brett Cann, BS; Craig Silverton, DO. *Impact of Body Mass Index on Blood Transfusion in Total Hip and Knee Arthroplasty.*
October 2015 International Society for Technology in Arthroplasty (ISTA)
Annual Congress - Vienna, Austria
May 2015 1st Place - Detroit Academy of Orthopaedic Surgeons
Resident Research Symposium - Birmingham, MI
February 2015 3rd Place - Henry Ford Health System
Medical Education Research Symposium - Detroit, MI
9. Wael Ghacham, MD; **Nolan Wessell, MD**; Stephen Bartol, MD|MBA. *Assessment of Nerve Root Decompression by Mechanomyography.*
May 2015 Detroit Academy of Orthopaedic Surgeons (DAOS)
Resident Research Symposium - Birmingham, MI
10. Nicholas Frisch, MD|MBA; Andrew Pepper, MD; Alexander Greenstein, BS; **Nolan Wessell, MD**; Michael Charters, MD; Toufic Jildeh, BS; Edward Peterson, PhD; S. Trent Guthrie, MD. *The Effect of Chronic Kidney Disease on Mortality in Intertrochanteric Hip Fractures.*
May 2015 3rd Place - Detroit Academy of Orthopaedic Surgeons
Resident Research Symposium - Birmingham, MI

11. Nicholas Frisch, MD|MBA; **Nolan Wessell, MD**; Michael Charters, MD; Jakub Sikora-Klak, BS; Stephen Yu, BS; Christopher Dobson, BS; James Jeffries, MD; Craig Silverton, DO; Michael Laker, MD. *Predictors and Complications of Blood Transfusion in Total Hip and Knee Arthroplasty.*

November 2013	American Association of Hip and Knee Surgeons (AAHKS) 23 rd Annual Scientific Meeting - Dallas, TX
October 2013	International Society for Technology in Arthroplasty (ISTA) Annual Congress - Palm Beach, FL

12. Michael Charters, MD; Nicholas Frisch, MD|MBA; **Nolan Wessell, MD**; Christopher R Dobson, BS; Clifford M Les, DVM/PhD; Craig D Silverton, DO. *Rivaroxaban versus Enoxaparin for Venous Thromboembolism Prophylaxis After Hip and Knee Arthroplasty: Our First Two Years Experience.*

April 2014	Winner - Edward D. Henderson, MD Physicians In Training Research Award Mid-America Orthopaedic Association (MAOA) Annual Meeting - San Antonio, TX
March 2014	American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting - New Orleans, LA
June 2014	Michigan Orthopaedic Society (MOS) Annual Scientific Meeting - Mackinaw Island, MI

POSTER PRESENTATIONS

1. Ayers R, Akiyama M, Pott M, **Wessell NM**, Ou-Yang D, Kleck CJ. *A Comparative Analysis of Bone Strain in Pullout versus Toggle Pedicle Screw Testing.*

April 2021	American Society of Biomechanics - Rocky Mountain Section Annual Meeting - Virtual
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2. Kuris EO, Reeves B, **Wessell NM**, Kleck CJ, Patel VV, Burger EL. *Clinical and Radiographic Outcomes After Lumbar Decompression with Placement of Interlaminar Spacers versus Decompression Alone.*

October 2020	North American Spine Society Annual Meeting - San Diego, California
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3. **Wessell, Nolan M**; Ross, Phillip; Akiyama, Michelle; Lindley, Emily; Patel, Vikas. *Opioid Prescription Monitoring in Pre- and Post-Operative Sacroiliac Joint Fusion Patients.*

May 2020	SpineWeek 2020 Annual Meeting - Melbourne, Australia
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4. **Wessell, Nolan M**; Welton, Lindsay; Krieg, Brandi; Trivedi, Deepa; Netsanet, Rahwa; Noschenko, Andriy; Patel, Vikas. *Comparison of Adverse Outcomes Following Placement of Interspinous Spacer (ISS) versus Laminectomy and Laminotomy.*

February 2020	International Society for the Advancement of Spine Surgery
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Annual Meeting - San Juan, Puerto Rico

5. Calabrese, David; Noshchenko, Andriy; Burger, Evalina L; Patel, Vikas V; Ou-Yang, David C; Cain, Christopher MJ; **Wessell, Nolan M**; Kleck, Christopher J. *Life is Not Necessarily a Kyphosing Event: Evaluation of Sagittal Parameters of Standing Full Body Radiographs in Asymptomatic Volunteers Over Decades of Life*
February 2020 Orthopedic Research Society (ORS)
Annual Meeting - Phoenix, AZ

May 2019 Inaugural Orthopedic Research Symposium
University of Colorado - Denver, CO
6. **Wessell, Nolan M**; Ghacham, Wael; Bartol, Stephen. *Pre-Insertion Pedicle Screw Testing Using Mechanomyography*.
October 2016 North American Spine Society (NASS)
Annual Meeting - Boston, MA
7. Frisch, Nicolas B; Taliaferro, Kevin; **Wessell, Nolan M**; Ananthasubramaniam, Karthikeyan; Brooks, Kristin; Silverton, Craig D. *Prevalence of Metal Ion Induced Subclinical Cardiomyopathy in Modular Metal on Metal Total Hip Arthroplasty*.
March 2018 American Academy of Orthopaedic Surgeons (AAOS)
Annual Meeting - New Orleans, LA

October 2016 International Society for Technology in Arthroplasty (ISTA)
Annual Meeting - Boston, MA

April 2016 Mid-America Orthopaedic Association (MAOA)
Annual Meeting - Bonita Springs, FL
8. Frisch, Nicolas B; Taliaferro, Kevin; **Wessell, Nolan M**; Silverton, Craig D. *Cobalt Chromium Ratios in Dual Taper Modular Total Hip Arthroplasty*.
October 2016 International Society for Technology in Arthroplasty (ISTA)
Annual Meeting - Boston, MA

April 2016 Mid-America Orthopaedic Association (MAOA)
Annual Meeting - Bonita Springs, FL
9. **Wessell, Nolan M**; Ghacham, Wael; Khalil, Jad G; Zavatsky, Joseph; Bartol, Stephen P. *Verification of Nerve Decompression Using Mechanomyography*.
April 2016 International Society for the Advancement of Spine Surgery
Annual Meeting - Las Vegas, NV
10. **Nolan Wessell, MD**; Nicholas Frisch, MD|MBA; Christopher R Dobson, BS; Clifford M Les, DVM/PhD; Craig D Silverton, DO. *Impact of Body Mass Index on Blood Transfusion in Total Hip and Knee Arthroplasty*.
June 2015 American Orthopaedic Association (AOA)
Annual Meeting - Providence, RI

11. Michael Charters, MD; Nicholas Frisch, MD|MBA; **Nolan Wessell, MD**; Christopher R Dobson, BS; Clifford M Les, DVM/PhD; Craig D Silverton, DO. *Impact of Chronic Kidney Disease Stage on Postoperative Intertrochanteric Hip Fracture Mortality.*
 March 2015 American Academy of Orthopaedic Surgeons (AAOS)
 Annual Meeting - Las Vegas, NV
12. Nicholas Frisch, MD|MBA; **Nolan Wessell, MD**; Michael Charters, MD; Jakub Sikora-Klak, BS; Stephen Yu, BS; Christopher Dobson, BS; James Jeffries, MD; Craig Silverton, DO; Michael Laker, MD. *Predictors and Complications of Blood Transfusion in Total Hip and Knee Arthroplasty.*
 April 2014 Mid-America Orthopaedic Association (MAOA)
 Annual Meeting - San Antonio, TX
 March 2014 American Academy of Orthopaedic Surgeons (AAOS)
 Annual Meeting - New Orleans, LA
13. Michael Charters, MD; Nicholas Frisch, MD|MBA; **Nolan Wessell, MD**; Christopher R Dobson, BS; Clifford M Les, DVM/PhD; Craig D Silverton, DO. *Rivaroxaban versus Enoxaparin for Venous Thromboembolism Prophylaxis After Hip and Knee Arthroplasty: Our First Two Years Experience.*
 American Association of Hip and Knee Surgeons (AAHKS) March 2013
 23rd Annual Scientific Meeting - Dallas, TX
14. **Wessell NM**; Pechey CL; MacLeay JM; Turner AS; Les CM. *Short- and Medium-term Estrogen Depletion Related Changes in Anatomic Variation of Time-dependent Materials Properties, and Evidence of Compact Bone Secondary Remodeling.*
 May 2010 Henry Ford Health System
 Annual Research Symposium - Detroit, MI
 March 2010 Orthopaedic Research Society (ORS)
 56th Annual Meeting of the - New Orleans, LA
 January 2010 Wayne State University
 Medical Student Research Symposium - Detroit, MI
15. E Sorensen, T Watanabe, A Naito, J Bruce, **N Wessell**, M Schott, D. Loeb, P Ahlquist. *Identification and Characterizations of Cellular Genes Modulating Hepatitis B Virus Replication.*
 February 2008 University of Wisconsin Paul C. Carbone Comprehensive
 Cancer Center
 2nd Annual Retreat - Madison, WI

VIDEO PRODUCTIONS

1. **Wessell, Nolan M.** *Orthopedic Telemedicine and the Virtual Physical Exam.* University of Colorado School of Medicine, VuMedi Website. April 2020.

2. **Wessell, NM.** *Cervical Radiculopathy & Treatment.* University of Colorado School of Medicine, Department of Orthopedic Surgery Website.
3. **Wessell, Nolan M;** Jabara, Justin; Taliaferro, Kevin; Buraimoh, Ayodele; Jung, Edward; Bartol, Stephen. *Percutaneous Placement of Pedicle Screws with Mechanomyography Testing.* AAOS Video Library. March 2017.
4. Taliaferro, Kevin; Jabara, Justin; **Wessell, Nolan M;** Jung, Edward; Bartol, Stephen. *Direct Lateral Interbody Fusion Using MMG (Mechanomyography) Nerve Mapping.* AAOS Video Library. March 2017.

ONGOING RESEARCH

1. **Wessell, Nolan M;** Jabara, Justin; Ghacham, Wael; Bartol, Stephen. *Pre-Insertion Pedicle Screw Testing Using Mechanomyography.* In progress.
2. Frisch, Nicolas B; Taliaferro, Kevin; **Wessell, Nolan M;** Ananthasubramaniam, Karthikeyan; Brooks, Kristin; Silverton, Craig D. *Prevalence of Metal Ion Induced Subclinical Cardiomyopathy in Modular Metal on Metal Total Hip Arthroplasty.* In progress.

MENTORSHIP

Clinical

Orthopedic Spine Surgical Fellows

Jose H. Jimenez, MD, MS	2020 - 2021
Eren Kuris, MD	2019 - 2020
Shahbaaz Sabri, MD	2019 - 2020
William McClellan, MD	2018 - 2019

Research

Medical Students

Emily Wolverton	2019 - 2021
Lindsay Welton	2019 - 2020
Brandi Kreig	2019 - 2020
Phillip Ross	2017 - 2018

EMPLOYMENT EXPERIENCE

2009 - 2011	Research Assistant Bone & Joint Center Henry Ford Hospital Department of Orthopaedic Surgery, Detroit, MI Advisor: Clifford M. Les, DVM, PhD, MRCVS
2007 - 2008	Research Technician Howard Hughes Medical Institute University of Wisconsin - Madison, Madison, WI Advisor: Paul G. Ahlquist, PhD.

- 2005 **Research Intern**
 Marshfield Clinic Research Foundation
 Marshfield Clinic - Clinical Research Center, Marshfield, WI
 Advisor: Jennifer K. Meece, PhD.
- 2004 **Undergraduate Research Assistant**
 University of Wisconsin Department of Animal Health& Biomedical
 Sciences, Madison, WI
 Advisor: Judd Aiken, PhD.

VOLUNTEER AND ADMINISTRATIVE SERVICE

- 2014 - 2015 Henry Ford Hospital House Staff Council
 Orthopaedic Surgery Representative
- 2008 - 2012 Orthopaedic Surgery Interest Group, Wayne State University
 Co-Coordinator, 2009-2010
- 2008 - 2012 Amigos Medicos, Wayne State University
 Beginner's Medical Spanish Language Instructor, 2009-2010
 Research Director, 2009-2010
- 2008 - 2013 Wayne State Medical School Intramural Hockey Team
- 2008 - 2012 Surgery Interest Group, Wayne State University
- 2008 - 2012 American Medical Association
- 2008 - 2012 Michigan State Medical Society
- 2008 - 2012 Wayne County Medical Society
- 2008 - 2012 Wayne State University School of Medicine Interview Tour Guide
- 2008 Woodlands Church Medical Missions - Sumpango, Guatemala
 Physician Extender
- 2004 - 2006 Meriter Hospital – Madison, WI
 Physical Therapy Department Volunteer

PERSONAL INTERESTS

Cycling, Racquetball, Hockey, Golf, Wakeboarding, Barefoot Skiing, Ice Fishing & Hunting