

# NOLAN M WESSELL, MD | MBA | FAAOS



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## ACADEMIC APPOINTMENTS

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

## EDUCATION AND TRAINING

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2020 - 2024      **University of Colorado – Denver**  
Denver, CO  
Masters in Business Administration

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 School**  
Stevens Point, WI  
High School Diploma  
Graduated as Valedictorian

## **HONORS AND AWARDS**

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February 2025	CU Alumni Association – Alumni Hero
May 2024	CU Alumni Association – Alumni Hero
May 2021	Colorado Magazine Top Doctors - Orthopedic Surgeon
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 Inductee	American Orthopaedic Association (AOA) Resident Leaders Forum
June 2016	Michigan Orthopaedic Society Annual Meeting - Best Paper Award
February 2016	2 <sup>nd</sup> Place, Henry Ford Health System Medical Education Research Symposium
January 2016	Mid-America Orthopaedic Association Educational Grant Recipient
May 2015	1 <sup>st</sup> Place, Detroit Academy of Orthopaedic Surgeons Resident Research Symposium
May 2015	3 <sup>rd</sup> Place, Detroit Academy of Orthopaedic Surgeons Resident Research Symposium
February 2015	3 <sup>rd</sup> 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

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## **PROFESSIONAL MEMBERSHIPS**

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2022 - present	National Society of Leadership and Success
2022 - present	Fellow of the American Academy of Orthopedic Surgeons
2021 - present	International Society for the Advancement of Spine Surgery
2018 - present	AOA Emerging Leaders Program
2018 - present	Colorado Orthopedic Society (COS)
2017 - present	American Orthopedic Association (AOA)
2014 - present	North American Spine Society (NASS)
2012 - present	American Academy of Orthopaedic Surgeons (AAOS)
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**

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2024 – present	American Red Cross – Mile High Chapter Board of Directors
2021 - present	CU Medicine Department of Orthopedic Surgery - Wellness Committee
2021 - present	UC Health Faculty Engagement and Wellbeing Committee
2020 - present	UC Health Highlands Ranch Hospital Spine Steering Committee
2020 - present	Colorado Orthopedic Society – Board of Directors

2018 - present	CU Medicine Department of Orthopedic Surgery - Spine Fellowship Selection Committee
2018 - present	UC Health Highlands Ranch Hospital Orthopedic Service Line Committee
2021 - 2022	University of Colorado School of Medicine - Junior Faculty Committee Subcommittee on Wellness, Resilience and Work-Life Balance
2019 - 2021	CU Medicine Department of Orthopedic Surgery - Resident Selection Committee
2018 - 2019	UC Health Multidisciplinary Opioid/Pain Management Committee
2018 - 2019	UC Health Highlands Ranch Hospital Orthopedic Planning Committee

## **LICENSURES AND CERTIFICATIONS**

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July 2022	American Board of Orthopaedic Surgery Part II - Passed Board Certified July 2022
September 2017	American Board of Orthopaedic Surgery Part I - Passed
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**

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February 2024	McCulloch Winter Spine Meeting Avon, CO
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November 2023	Cervical Spine Research Society Annual Meeting Las Vegas, NV
October 2023	University of Colorado School of Medicine Mentorship Academy Aurora, CO
May 2021	International Society for the Advancement of Spine Surgery Annual Meeting Miami, FL
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**, Krieg B, Damioli L, Kleck CJ. Atypical Mycobacterial Infections of the Spine: Evaluation and Management. *Orthopedics*. 2024 Mar-Apr;47(2):e61-e66. doi: 10.3928/01477447-20240122-05. Epub 2024 Jan 25. PMID: 38285551.
2. Delcont MR, Ou-Yang DC, Burger EL, Patel VV, **Wessell NM**, Kleck CJ. Alternative Uses of O-Arm and Stealth Navigation Technology Over 10 Years: The University of Colorado Experience. *Orthopedics*. 2023 Mar-Apr;46(2):e89-e97. doi: 10.3928/01477447-20220719-04. Epub 2022 Jul 25. PMID: 35876781.
3. **Wessell NM**, Kleck C, Ou-Yang D, Goldstein CL, Burger E, Patel V. The University of Colorado Virtual Physical Exam for Spine Surgeons: A Preliminary Study. *Orthopedics*. 2022 Jan-Feb; 45(1); e7-e10. PMID: 34846242
4. **Wessell, NM**; Wolverton, 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.
5. 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*. 2021 Feb; 15(1): 153-160. PMID: 33900969.
6. 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.
7. 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.

8. 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
9. 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.
10. **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
11. 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
12. 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.
13. 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.
14. **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
15. 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
16. 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

17. 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

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

## ORAL PRESENTATIONS

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1. Wessell, Nolan. *The Economics of Spine Care: Present and Future*.  
February 2024                      McCulloch Winter Spine Meeting  
Avon, CO
2. 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
3. **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)
4. 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
5. Calabrese, David; Burger, Evalina; Patel, Vikas; Cain, Christopher; 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



6. **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
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.*  
 February 2016                  2<sup>nd</sup> Place - Henry Ford Health System  
    Medical Education Research Symposium - Detroit, MI
8. 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
9. **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                          1<sup>st</sup> Place - Detroit Academy of Orthopaedic Surgeons  
    Resident Research Symposium - Birmingham, MI  
  
 February 2015                  3<sup>rd</sup> Place - Henry Ford Health System  
    Medical Education Research Symposium - Detroit, MI
10. 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

11. 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                      3<sup>rd</sup> Place - Detroit Academy of Orthopaedic Surgeons  
Resident Research Symposium - Birmingham, MI
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.*  
November 2013              American Association of Hip and Knee Surgeons (AAHKS)  
23<sup>rd</sup> Annual Scientific Meeting - Dallas, TX  
  
October 2013                  International Society for Technology in Arthroplasty (ISTA)  
Annual Congress - Palm Beach, FL
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.*  
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. Hutchings M, Rodgers M, Albright J, Kleck C, Ou-Yang D, Burger E, **Wessell N**, Patel V, Ackert-Bicknell C, Ayers, R. *Structured Light Scanning and Colorimetric Characterization to Differentiate Wear and Corrosion on Spinal Explants.*  
October 2023                      Orthopedic Research Symposium - Robert D'Ambrosia  
Diversity Lectureship - Aurora, Colorado
2. 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

3. 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
4. **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
5. **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  
Annual Meeting - San Juan, Puerto Rico
6. 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
7. **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
8. 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

9. 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
10. **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
11. **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
12. 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
13. 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
14. 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.*  
 March 2013                      American Association of Hip and Knee Surgeons (AAHKS)  
    23<sup>rd</sup> Annual Scientific Meeting - Dallas, TX
15. **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)  
56<sup>th</sup> Annual Meeting of the - New Orleans, LA

January 2010

Wayne State University  
Medical Student Research Symposium - Detroit, MI

16. 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  
2<sup>nd</sup> Annual Retreat - Madison, WI

## VIDEO PRODUCTIONS

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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

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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

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Clinical

Orthopedic Spine Surgical Fellows  
Evan Fene, MD

2024 - 2025

Collin Walsh, MD	2024 - 2025
K. Soraya Heidari, MD	2023 - 2024
Brandon Bennett, MD	2023 - 2024
Felicity Fisk, MD	2022 - 2023
John Whiktaker, MD	2022 - 2023
James Farrell, MD	2021 - 2022
Ali Zarezadeh, MD	2021 - 2022
Jose H. Jimenez, MD, MS	2020 - 2021
Eren Kuris, MD	2019 - 2020
Shahbaaz Sabri, MD	2019 - 2020
William McClellan, MD	2018 - 2019
Medical, Physician Assistant and Nurse Practitioner Students	
Kirstin Dimauro (PA Student)	2024
Leslie Alvarez (PA Student)	2024
Whitley Porter (PA Student)	2024
Sahran Al Busaidy (PA Student)	2023
Research	
Medical Students	
Emily Wolverton	2019 - 2021
Lindsay Welton	2019 - 2020
Brandi Kreig	2019 - 2020
Phillip Ross	2017 - 2018

## EMPLOYMENT EXPERIENCE

2009 - 2011	<b>Research Assistant</b> Bone & Joint Center Henry Ford Hospital Department of Orthopaedic Surgery, Detroit, MI Advisor: Clifford M. Les, DVM, PhD, MRCVS
2007 - 2008	<b>Research Technician</b> Howard Hughes Medical Institute University of Wisconsin - Madison, Madison, WI Advisor: Paul G. Ahlquist, PhD.
2005	<b>Research Intern</b> Marshfield Clinic Research Foundation Marshfield Clinic - Clinical Research Center, Marshfield, WI Advisor: Jennifer K. Meece, PhD.
2004	<b>Undergraduate Research Assistant</b> University of Wisconsin Department of Animal Health & Biomedical Sciences, Madison, WI Advisor: Judd Aiken, PhD.

## **VOLUNTEER AND ADMINISTRATIVE SERVICE**

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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**

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