

# Nathan T. Formaini, D.O.

Board Certified Shoulder and Elbow Fellowship-trained  
Orthopedic Surgeon

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## Education

### Holy Cross Hospital (8/1/2014 – 7/31/2015)

*Fort Lauderdale, FL*

- ASES Shoulder and Elbow Surgery Fellowship
- Holy Cross Hospital
- Fellowship Director: Jonathan C. Levy, MD

### Ohio University – Doctors Hospital (7/1/2009 – 6/30/2014)

*Columbus, OH*

- Residency – Orthopedic Surgery
- Graduation 6/2014

### Lake Erie College of Osteopathic Medicine (8/2005 – 5/2009)

*Erie, PA*

- Degree: Doctor of Osteopathic Medicine (D.O.)
- Graduation: 6/2009 with honors

### University of Pittsburgh (8/2000 – 5/2004)

*Pittsburgh, PA*

- Degree: Bachelor of Science – Biological Sciences
- Minor: Italian Language and Literature
- Graduation: 5/2004 with honors

### CAPA, Florence Center at Palazzo Galli-Tassi (5/2003 – 8/2003)

*Florence, Italy*

- Italian Language, Literature and Art – Study abroad program
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## Research and Publications

### "Cannulated System for Sequential Intramedullary Cement Extraction from Humerus During Revision Shoulder Arthroplasty"

Berglund DD, Kurowicki J, Rosas S, Triplet JJ, Horn B, Formaini NT, Levy JC.

- Published in *Techniques in Orthopedics*, January 2018

### "Short Term Projection of Reverse Total Shoulder Arthroplasty Utilization in Proximal Humerus Fractures within the Humana National Private Payer Database"

Law TY, Rosas S, Levy JC, George F, Kurowicki J, Formaini NT.

- Published in *American Journal of Orthopedics*, January 2017

### "Outcomes and Radiographic Findings after Radial Head Arthroplasty Using the Acumed® Anatomic Radial Head System"

Levy JC, Kurowicki J, Formaini NT.

- Published in *Journal of Shoulder and Elbow Surgery*, May 2016

**“Trends in Surgical Management of Proximal Humerus Fractures in the Medicare Population: A nationwide study of records from 2009 to 2012”**

Rosas S, Law TY, Kurowicki J, Formaini NT, Kalandiak SP, Levy JC.

- Published in *Journal of Shoulder and Elbow Surgery*, April 2016

**“Factors Predicting Postoperative Range of Motion for Anatomic Total Shoulder Arthroplasty”**

Levy JC, Formaini NT, Akushem MT.

- Published in *Journal of Shoulder and Elbow Surgery*, January 2016

**“The Effect of Glenoid Bone Loss on Reverse Shoulder Arthroplasty Baseplate Fixation”**

Formaini NT, Everding NG, Levy JC, Santoni BG, Nayak AN, Wilson C, Cabezas AF.

- Published in *Journal of Shoulder and Elbow Surgery*, July 2015

**“Baseplate Fixation Using Hybrid Configurations of Locked and Unlocked Peripheral Screws”**

Formaini NT, Everding NG, Levy JC, Santoni BG, Nayak AN, Wilson C.

- Published in *Journal of Orthopaedics and Traumatology*, January 2017

**“ORIF of Proximal Humerus Fractures in Patients over 70”**

Formaini NT, Blum S, Levy JC, Ashukem M.

- Accepted for publication in *International Journal of Shoulder Surgery*, April 2015

**“Tuberosity Healing Following Reverse Shoulder Arthroplasty for Acute Proximal Humerus Fractures: the Black and Tan Technique”**

Formaini NT, Everding NG, Levy JC, Rosas S.

- Published in *Journal of Shoulder and Elbow Surgery*, July 2015

**“Anatomic and Reverse Total Shoulder Arthroplasty in Patients Older Than 80 Years”**

Triplet J, Everding NG, Levy JC, Formaini NT, O'Donnell KP, Moor MA, Villarroel LD.

- Published in *Orthopedics* October 2015

**“Observation of Radiolucent Lines on Initial Post-Operative Radiographs Using Modern Pegged Glenoid”**

Everding NG, Levy JC, Formaini NT, Blum S, Gill C, Verde K.

- Published in *International Journal of Shoulder Surgery*, April 2016

**“Superior Versus Anteroinferior Plating of Midshaft Clavicle Fractures: A Comparison of Clinical and Patient Outcomes”**

Formaini NT, Taylor BC, Backes J, Bramwell TJ.

- Published in *Orthopedics*, July 2013

**“Evaluating the Use of Preoperative Antibiotics in Pediatric Orthopedic Surgery”**

Formaini NT, Jacob P, Willis L, Kean JR.

- Published in *Journal of Pediatric Orthopedics*, October 2012

**“Necessity for Fibular Fixation Associated with Distal Tibia Fractures”**

Taylor BC, Hartley BR, Formaini NT, Bramwell TJ.

- Published in *Injury*, December 2015

**“Gas Gangrene as a Result of Femoral Traction Pin Placement: A Case Report”**

Taylor BC, Bramwell TJ, Formaini NT.

- Published in *Case Reports in Orthopedics*, January 2012

## Book Chapters

### **“Minimally Invasive Treatment of Medial Epicondylitis”**

Formaini NT, Levy JC.

- Published in *Minimally Invasive Surgery in Orthopedics*, Second Edition ©2016. Editors: Scuderi, Giles R., Tria, Alfred J. (Eds.)

### **“Outcomes of Clavicle Injuries”**

Formaini NT, Levy JC.

- Published in *Clavicle Injuries: A Case-based Guide to Diagnosis and Treatment*, ©2017. Editors: Groh, Gordon I. (Ed.)

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## Research Illustrations

### **"Cannulated System for Sequential Intramedullary Cement Extraction from Humerus During Revision Shoulder Arthroplasty"**

Berglund DD, Kurowicki J, Rosas S, Triplet JJ, Horn B, Formaini NT, Levy JC.

- Contributing Illustrator
- Published in *Techniques in Orthopedics*, January 2018

### **“Tuberosity Healing Following Reverse Shoulder Arthroplasty for Acute Proximal Humerus Fractures: the Black and Tan Technique”**

Formaini NT, Everding NG, Levy JC.

- Contributing Illustrator
- Published in *Journal of Shoulder and Elbow Surgery*, July 2015

### **“Hallux Rigidus: Relevant Anatomy and Pathophysiology” – book chapter**

Doug Lucas, D.O., Kenneth J. Hunt, M.D.

- Contributing Illustrator
- Accepted for publication in *Foot and Ankle Clinics of North America*, May 2015

### **“The Plantar Plate of the First Metatarsophalangeal Joint: An Anatomical Study”**

Doug Lucas, D.O., Terrance Philbin, D.O., Safet Hatic II, D.O.

- Contributing Illustrator
- Published April 2014 – *Foot and Ankle Specialist*

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## Research, Podium and Poster Presentations

**“Prosthetic Shoulder Joint Infections: Diagnosis, Treatment and Prevention”, American Osteopathic Academy of Orthopedics Annual Meeting, Invited Speaker, April 12<sup>th</sup>, 2019, Orlando, FL**

**“Case Presentation: Cuff Tears from Large to Small: So Many Ways to Treat, So Many Unanswered Questions!”, Pennsylvania Orthopedic Society, Invited Panel Member, April 11<sup>th</sup>, 2019, Orlando, FL**

**Holy Cross Hospital/Mass General Hospital 4<sup>th</sup> Annual Winter Symposium, Invited Shoulder Faculty, January 24-26, 2019, Fort Lauderdale FL**

**“Reverse Total Shoulder Arthroplasty for Fracture”, Pennsylvania Orthopedic Society Annual Meeting, Invited Speaker, October 25<sup>th</sup>, 2018, Hershey, PA**

**“Acromion Fractures After Reverse Total Shoulder Arthroplasty”, Pennsylvania Orthopedic Society Annual Meeting, Invited Speaker, October 25<sup>th</sup>, 2018, Hershey, PA**

**American Osteopathic Academy of Orthopedics Annual Meeting, Moderator - Shoulder and Elbow Session, October 18-20<sup>th</sup>, 2018, Atlanta, GA**

**“Advances in Shoulder Arthroplasty Design”, American Osteopathic Academy of Orthopedics Annual Meeting, Speaker, October 18-20<sup>th</sup>, 2018, Atlanta, GA**

**Holy Cross Hospital/Mass General Hospital 3<sup>rd</sup> Annual Winter Symposium, Invited Shoulder Faculty, January 19-20, 2018, Fort Lauderdale FL**

**Tenex Physicians Symposium, Guest speaker, technique demonstration, October 26, 2017, Renaissance Hotel, Pittsburgh, PA**

**“Anatomic and Reverse Shoulder Arthroplasty in Patients Over 80” Nathan Formaini, D.O., Nathan Everding, M.D., Jonathan Levy, M.D., Jacob Triplet, B.S. Podium presentation at Florida Orthopedic Society Annual Meeting on June 7, 2015, St. Petersburg, FL**

**“Superior Versus Anteroinferior Plating of Midshaft Clavicle Fractures: A Comparison of Clinical and Patient Outcomes” Nathan Formaini, D.O., Benjamin Taylor, M.D., Jeffrey Backes, M.D., Thomas Bramwell, D.O. Podium presentation at the AOA Annual Meeting on October 23, 2014, Rancho Palos Verdes, CA**

**“Superior Versus Anteroinferior Plating of Midshaft Clavicle Fractures: A Comparison of Clinical and Patient Outcomes” Nathan Formaini, D.O., Benjamin Taylor, M.D., Jeffrey Backes, M.D., Thomas Bramwell, D.O. Podium presentation at the 41<sup>st</sup> Annual Mallory-Coleman Research Day at The Ohio State University on June 7, 2013, Columbus, OH**

**“Superior Versus Anteroinferior Plating of Midshaft Clavicle Fractures: A Comparison of Clinical and Patient Outcomes” Nathan Formaini, D.O., Benjamin Taylor, M.D., Jeffrey Backes, M.D., Thomas Bramwell, D.O. Poster presentation at the OhioHealth Doctors Hospital Research Day on May 16, 2013, Columbus, OH**

**“Splinting for Fractures of the Lower Extremity” Formaini NT. Presentation at Doctors Hospital Emergency Medicine Education Day on December 13, 2012, Columbus, OH**

**“Evaluating the Use of Preoperative Antibiotics in Pediatric Orthopedic Surgery” Nathan Formaini, D.O., Paul Jacob, D.O., John Kean, M.D. Paper presentation at the Ohio Orthopaedic Society Annual Meeting, Resident Papers Contest on May 11, 2012, Dublin, OH**

**“Evaluating the Use of Preoperative Antibiotics in Pediatric Orthopedic Surgery” Nathan Formaini, D.O., Paul Jacob, D.O., John Kean, M.D. Poster presentation at the OhioHealth Doctors Hospital Research Day on May 4, 2012, Columbus, OH**

**“Evaluating the Use of Preoperative Antibiotics in Pediatric Orthopedic Surgery” Nathan Formaini, D.O., Paul Jacob, D.O., John Kean, M.D. Poster presentation at the Ohio Osteopathic Symposium, OOA/CORE Poster Exhibition and Competition on April 21, 2012, Columbus OH**

## **Professional Conferences**

**American Osteopathic Academy of Orthopedics Postgraduate Seminar**, April 12<sup>th</sup>, 2019, Orlando, FL

**Pennsylvania Orthopedic Society Spring Meeting**, April 11<sup>th</sup>, 2019, Orlando, FL

**Holy Cross Hospital/Mass General Hospital 4<sup>th</sup> Annual Winter Symposium**, January 24-26, 2019, Fort Lauderdale FL

**Pennsylvania Orthopedic Society Annual Meeting**, October 25-27<sup>th</sup>, 2018, Hershey PA

**American Osteopathic Academy of Orthopedics Annual Meeting**, October 18-20<sup>th</sup>, 2018, Atlanta, GA

**American Osteopathic Academy of Orthopedics Postgraduate Seminar**, May 3-5<sup>th</sup>, 2018, Rancho Palos Verdes, CA

**Horty-Springer – The Complete Course for Medical Leaders**, February 1-3<sup>rd</sup>, 2018, Naples, FL

**Holy Cross Hospital/Mass General Hospital 3<sup>rd</sup> Annual Winter Symposium, Invited Faculty**, January 19-20<sup>th</sup>, 2017, Fort Lauderdale, FL

**American Osteopathic Academy of Orthopedics Annual Meeting**, October 12-14<sup>th</sup>, 2017, Chicago, IL

**The Shoulder Summit – DJO**, August 11-13<sup>th</sup>, 2017, Chicago, IL

**Exactech Masters in Shoulder Arthroplasty**, May 4-5<sup>th</sup>, 2017, New York, NY

**American Osteopathic Academy of Orthopedics Annual Meeting**, October 13<sup>th</sup>-15<sup>th</sup>, 2016, Washington D.C.

**American Osteopathic Academy of Orthopedics Annual Meeting**, October 15-17<sup>th</sup>, 2015, Colorado Springs, CO

**DJO Surgical Medical Education Fellows Course in Shoulder Arthroplasty**, April 16<sup>th</sup> -18<sup>th</sup>, 2015, Indianapolis, IN

**American Academy of Orthopedic Surgeons Annual Meeting**, March 25<sup>th</sup> – 28<sup>th</sup>, 2015, Las Vegas, NV

**DJO Advances in Shoulder Arthroplasty**, February 20<sup>th</sup> – 21<sup>st</sup>, 2015, Miami, FL

**Current Solutions in Shoulder and Elbow Surgery**, January 15<sup>th</sup> – 18<sup>th</sup>, 2015, Tampa, FL

**American Osteopathic Academy of Orthopedics Annual Meeting**, October 22-25<sup>th</sup>, 2014, Rancho Palos Verdes, CA

**DJO Surgical Fellows Course in Shoulder Arthroplasty**, April 24-26, 2014, Las Vegas, NV

**American Academy of Orthopedic Surgeons Annual Meeting**, Mar. 11-15, 2014, New Orleans, LA

**American Osteopathic Academy of Orthopedics 53<sup>rd</sup> Postgraduate Seminar**, May 3-6, 2013, Miami Beach, FL

**DJO Surgical Medical Education Fellows Course in Shoulder Arthroplasty**, Mar. 7-9, 2013, Indianapolis, IN

**Smith&Nephew Contemporary Solutions in Joint Surgery – Direct Anterior Total Hip Arthroplasty**, Oct. 18-20, 2012, Las Vegas, NV

**Advanced Principles and Techniques of Operative Fracture Management Course**, Jun. 3-8, 2012, Marco Island, FL

**Musculoskeletal Pathology Review Course**, Oct. 7, 2011, Akron, OH

**Depuy Total Hip and Knee Course for Residents**, Aug.13-15, 2011, San Diego, CA

**Musculoskeletal Pathology Review Course**, Oct. 8, 2010, Akron, OH

**Basic Principles and Techniques of Operative Fracture Management Course**, Sep. 11-14, 2010, Fort Lauderdale, FL

**Musculoskeletal Pathology Review Course**, Oct. 2, 2009, Akron, OH

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## Professional Memberships

American Shoulder and Elbow Surgeons	2018 - present
Pennsylvania Orthopedic Society	2018 - present
American Academy of Orthopaedic Surgeons	2009 - present
American Osteopathic Academy of Orthopedics	2009 - present
American Osteopathic Association	2009 - present
University of Pittsburgh Alumni Association	Life Member

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## Editorial Positions

Journal Reviewer – *Orthopedics*

Journal Reviewer – *Journal of Shoulder and Elbow Surgery*

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## Awards/Scholarships

2<sup>nd</sup> Place – Fellows Research Competition at the Florida Orthopedic Society Annual Meeting on June 7<sup>th</sup>, 2015  
St. Petersburg, FL

- “*Anatomic and Reverse Shoulder Arthroplasty in Patients Over 80*” Nathan Formaini, D.O., Nathan Everding, M.D., Jonathan Levy, M.D., Jacob Triplet, B.S.

2<sup>nd</sup> Place – Overall Poster and Podium Presentation at the AOA Annual Meeting on October 23<sup>rd</sup>, 2014  
Terranea Resort, Rancho Palos Verdes, CA

- “*Superior Versus Anteroinferior Plating of Midshaft Clavicle Fractures: A Comparison of Clinical and Patient Outcomes*” Nathan Formaini, D.O., Benjamin Taylor, M.D., Jeffrey Backes, M.D., Thomas Bramwell, D.O.

2<sup>nd</sup> Place – Research Poster – 8<sup>th</sup> Annual Doctors Research Day on May 16<sup>th</sup>, 2013  
Columbus, OH

- *“Superior Versus Anteroinferior Plating of Midshaft Clavicle Fractures: A Comparison of Clinical and Patient Outcomes” Nathan Formaini, D.O., Benjamin Taylor, M.D., Jeffrey Backes, M.D., Thomas Bramwell, D.O.*

2<sup>nd</sup> Place – Resident paper – AOA Annual Meeting on October 26<sup>th</sup>, 2012  
The Broadmoor, Colorado Springs, CO

- *“Evaluating the Use of Preoperative Antibiotics in Pediatric Orthopedic Surgery” Nathan Formaini, D.O., Paul Jacob, D.O., John Kean, M.D.*

1<sup>st</sup> Place – OhioHealth Research Poster Competition at OhioHealth Systemwide Research Day, June 6<sup>th</sup>, 2012  
Columbus, OH

- *“Evaluating the Use of Preoperative Antibiotics in Pediatric Orthopedic Surgery” Nathan Formaini, D.O., Paul Jacob, D.O., John Kean, M.D.*

1<sup>st</sup> Place – OhioHealth Research Poster Competition at Grant Medical Center Research Day, May 4<sup>th</sup>, 2012  
Columbus, OH

- *“Evaluating the Use of Preoperative Antibiotics in Pediatric Orthopedic Surgery” Nathan Formaini, D.O., Paul Jacob, D.O., John Kean, M.D.*

Psi Sigma Alpha Osteopathic Honor Society, 2009

- *Admittance for osteopathic medical students graduating in the top 15% of their class*

LECOM Academic Excellence Scholarship, 2006, 2007, 2008

- *Awarded to students in the top 15% of the class*

Orris C. Hirtzel and Beatrice Dewey Hirtzel Memorial Foundation Scholarship, 2006, 2007

- *Awarded to the student achieving the highest academic average at the end of the academic year*

## Certifications

Board Certified - American Osteopathic Academy of Orthopedics  
Advanced Trauma Life Support Provider  
Advanced Cardiac Life Support Provider  
Basic Life Support Provider

## Hospital Affiliations (previous and current)

Doctors Hospital	Columbus, OH
Grant Medical Center	Columbus, OH
Dublin Methodist Hospital	Dublin, OH
Nationwide Children’s Hospital	Columbus, OH
The Ohio State Medical Center	Columbus, OH
Holy Cross Hospital	Fort Lauderdale, FL
Armstrong County Memorial Hospital (current)	Kittanning, PA
<b>-Vice President of Medical Staff</b>	

## **Website**

[www.DoctorNate.com](http://www.DoctorNate.com)

[www.pittsburghshoulderdoc.com](http://www.pittsburghshoulderdoc.com)

[www.orthosshoulderdoc.com](http://www.orthosshoulderdoc.com)