

## **Christopher M. Brusalis, M.D.**

333 Earle Ovington Blvd.

Uniondale, NY 11553

(516) 743-3036

[DrBrusalisOffice@hss.edu](mailto:DrBrusalisOffice@hss.edu)

### **PROFESSIONAL APPOINTMENTS**

08/2023 – present                    **Hospital for Special Surgery**  
New York, New York  
Assistant Attending Orthopaedic Surgeon

08/2023 – present                    **Weill Cornell Medical Center**  
New York, New York  
Instructor in Orthopaedic Surgery

### **POSTDOCTORAL TRAINING**

8/2022 – 7/2023                    **Rush University Medical Center**  
Chicago, Illinois  
Sports Medicine & Shoulder Surgery Fellowship

6/2018 – 6/2022                    **Hospital for Special Surgery**  
New York, New York  
Orthopaedic Surgery Residency

6/2017 – 6/2018                    **Hospital for Special Surgery**  
New York, New York  
Surgical Internship

### **EDUCATION**

8/2012 – 5/2017    M.D.    **Perelman School of Medicine at the University of Pennsylvania**  
Philadelphia, Pennsylvania  
Graduated with an additional Certificate in Medical Education

9/2006 – 5/2010    B.A.    **Yale University**  
New Haven, Connecticut  
Majors: History; Molecular Biophysics & Biochemistry  
Graduated with Distinction in both Majors

### **MEDICAL LICENSURE**

2017 – present                    **New York State License: 299321**

- 2021 – present                    **Connecticut State License:** 69445
- 2022 – present                    **Illinois State License:** 036.159907
- 2022 – present                    **Indiana State License:** 01087864A

### **Professional Society Memberships**

- 2017 – present                    **American Academy of Orthopaedic Surgeons**
- 2017 – present                    **Arthroscopy Association of North America**
- 2017 – present                    **American Orthopaedic Society for Sports Medicine**
- 2017 – present                    **American Shoulder and Elbow Surgeons Society**

### **HONORS**

- 2022                                    **New York Presbyterian-Weill Cornell Medical Center Alumni Council Distinguished Housestaff Award**  
Awarded to the graduating orthopaedic surgery resident demonstrating all-around clinical excellence during residency
- 2022                                    **Academic Achievement Award, Hospital for Special Surgery**  
Awarded to the graduating orthopaedic surgery resident with the highest cumulative OITE score throughout residency
- 2022                                    **International Travel Elective, Nice Shoulder Institute**  
Completed a four-week clinical mentorship in April-May 2022 with Professor Pascal Boileau at *Institut de Chirurgie Réparatrice Locomoteur et Sports* in Nice, France
- 2017                                    **William G. Munns Memorial Prize**  
Perelman School of Medicine at the University of Pennsylvania  
Awarded for academic excellence as a graduating student pursuing a career in orthopaedic surgery
- 2017                                    **Medical Student Research Paper Prize**  
Perelman School of Medicine at the University of Pennsylvania  
Orthopaedic Surgery Award for “A Dedicated Orthopaedic Trauma Operating Room Improves Efficiency at a Pediatric Center.”
- 2015                                    **Gold Humanism Honor Society, Perelman School of Medicine Chapter**  
Among 16 medical students chosen by medical school classmates for demonstrating excellence in humanistic clinical care, leadership, compassion and dedication to service.

## **HONORS (continued)**

- 2012 - 2017      **Twenty First Century Scholar, University of Pennsylvania**  
Awarded full-tuition merit scholarship by the Perelman School of Medicine
- 2016              **Safe Keeping Achievement Award, Children's Hospital of Philadelphia**  
Awarded for Oral Presentation at 6<sup>th</sup> Annual Quality and Patient Safety Day
- 2013              **Student Scholarship in Cardiovascular Disease**  
American Heart Association
- 2013              **Agnew Surgical Society Summer Fellowship**  
Department of Surgery, Hospital of the University of Pennsylvania  
Mentor: Y. Joseph Woo, MD
- 2011              **National HIV Prevention Conference Scholarship**  
Centers for Disease Control and Prevention (CDC)
- 2006              **Class Valedictorian**  
Sachem High School East, Farmingville, New York

## **RESEARCH EXPERIENCE**

- 7/15 – 7/16      **The Benjamin Fox Orthopaedic Surgery Research Fellowship**  
Children's Hospital of Philadelphia, Department of Orthopaedic Surgery
- 12/12- 12/13    **University of Pennsylvania, Philadelphia, Pennsylvania**  
Y. Joseph Woo, MD, Cardiovascular Research Laboratory
- 6/10 – 5/12      **Jacobi Medical Center, Bronx, New York**  
Department of Emergency Medicine
- 1/09 - 1/10      **Yale University, New Haven, Connecticut**  
Biochemistry Laboratory of Professor Scott Strobel
- 6/08 -1/09      **Yale University, New Haven, Connecticut**  
Molecular Biology Laboratory of Professor John Carlson

## **EXTRACURRICULAR ACTIVITIES**

- 2020 – 2022      **The John Marshall Society at Hospital for Special Surgery**  
Vice President

2020 – 2022	<b>Peer Support Member at Hospital for Special Surgery</b> Resident Member
2017- 2022	<b>Bioethics Committee at Hospital for Special Surgery</b> Resident Member
2019- 2022	<b>Resident Education Committee, American Academy of Orthopaedic Surgeons</b> Resident Member
2012-2017	<b>Leo Leung Orthopaedic Society, Member</b> Perelman School of Medicine, University of Pennsylvania
2015-2017	<b>Medical Education Club, Member</b> Perelman School of Medicine, University of Pennsylvania

## **BIBLIOGRAPHY**

### **Peer-Reviewed Journal Articles Accepted for Publication:**

1. Calderon Y, Cowan E, Nickerson J, Mathew S, Fetting J, Rosenberg M, **Brusalis C**, Chou K, Leider J, Bauman L. Educational effectiveness of an HIV pre-test video designed for adolescents: a randomized controlled trial. *Pediatrics*. 2011 May;127(5):911-6. PMID 21482613.
2. Calderon Y, Cowan E, Leu CS, **Brusalis C**, Rhee J, Nickerson J, Leider J, Bauman LJ. A human immunodeficiency virus posttest video to increase condom use among adolescent emergency department patients. *J Adolesc Health*. 2013. 53(1):79-84. PMID 23582525.
3. Mathew D, Martelli C, Kelley-Swift E, **Brusalis C**, Gershow M, Samuel A, Emonet T, Carlson JR. Functional diversity among sensory receptors in a Drosophila olfactory circuit. *Proc Natl Acad Sci USA*. 2013. 110(23):E2134-43. PMID 23690583.
4. Calderon Y, Cowan E, Rhee JY, **Brusalis C**, Leider J. Counselor-based rapid HIV testing in community pharmacies. *AIDS Patient Care STDS*. 2013. 27(8):467-73. PMID 23883320.
5. Calderon Y, Cowan E, Schramm C, Stern S, **Brusalis C**, Iscoe M, Rahman S, Verma R, Leider J. HCV and HBV testing acceptability and knowledge among urban emergency department patients and pharmacy clients. *Prev Med*. 2014. 61:29-33. PMID 24382298.
6. Cohen JE, Purcell BP, MacArthur JW Jr, Mu A, Shudo Y, Patel JB, **Brusalis CM**, et al. A bioengineered hydrogel system enables targeted and sustained intramyocardial delivery of neuregulin, activating the cardiomyocyte cell cycle and enhancing ventricular function in a murine model of ischemic cardiomyopathy. *Circ Heart Fail*. 2014. 7(4):619-26. PMID 24902740.

7. Shudo Y, Cohen JE, MacArthur JW Jr, Trubelja A, Patel JB, Edwards BB, Hung G, Fairman AS, **Brusalis C**, Hiesinger W, Atluri P, Hiraoka A, Miyagawa S, Sawa Y, Woo YJ. A tissue engineered chondrocyte cell-sheet induces extracellular matrix modification to enhance ventricular biomechanics and attenuate myocardial stiffness in ischemic cardiomyopathy. *Tissue Eng Part A*. 2015. 21(19-20):2515-25. PMID 26154752.
8. Baldwin KB, **Brusalis CM**, Nduaguba AM, Sankar WN. Predictive factors for differentiating between septic arthritis and Lyme disease of the knee in children. *J Bone Joint Surg Am*. 2016 May 04; 98(9):721-728.
9. Ganley TJ, **Brusalis CM**. Surgical reduction and fixation of tibial spine fractures in children. *JBJS Essent Surg Tech*. 2016 May 11; 6(2):e18.
10. Arkader A, **Brusalis CM**, Warner WC Jr, Conway JH, Noonan KJ. Update in pediatric musculoskeletal infections: when it is, when it isn't, and what to do. *J Am Acad Orthop Surg*. 2016 Sept. 24(9):e112-21
11. Parikh SN, Jaquith BP, **Brusalis CM**, Redler L, Ganley TJ, Kocher MS. Skeletally immature ACL: controversies and management. *Instr Course Lect*. Vol. 66. In press.
12. Park K, **Brusalis CM**, Ganley TJ. The 8-strand hamstring autograft in anterior cruciate ligament reconstruction. *Arthroscopy Techniques*. 2016 Sept. 5(5):e1105-e1109. PMID: 28224063.
13. **Brusalis CM**, Storey EP, Refakis CA, Ganley TJ. Low-fidelity simulation: an emerging trend in orthopaedic surgical education. *University of Pennsylvania Orthopaedic Journal*. 2016 June. 26(1):65-67.
14. Refakis CA, Storey EP, **Brusalis CM**, Ganley TJ. Pediatric shoulder instability: current trends in management. *University of Pennsylvania Orthopaedic Journal*. 2016 June. 26(1):30-33.
15. **Brusalis CM**, Shah AS, Luan X, Lutts MK, Sankar WN. A dedicated orthopaedic trauma operating room improves efficiency at a pediatric center. *J Bone Joint Surg Am*. 2017 Jan 4;99(1):42-47. doi: 10.2106/JBJS.16.00640.
16. Novais EN, Kestel LA, Carry PM, **Brusalis CM**, Sankar WN. Does surgeon experience impact the risk of complications after Bernese periacetabular osteotomy? *Clin Orthop Relat Res*. Epub 5 Aug 2016. PMID 27495809. doi: 10.1007/s11999-016-5010-1.
17. Lakomkin N, Fabricant PD, Cruz Jr AI, **Brusalis CM**, Chauvin NA, Lawrence JT. Interrater Reliability and Age-Based Normative Values for Radiographic Indices of Syndesmosis and Deltoid Ligament Stability in Children. *JBJS Open Access*. 2017 March 30;2(1):e0004. doi: 10.2106/JBJS.OA.16.00004.
18. **Brusalis CM**, Lawrence JT, Ranade S, Kerr JC, Pulos N, Wells L, Ganley TJ. Can a novel, low-cost simulation model be used to teach and evaluate surgical trainees in anterior cruciate

- ligament graft preparation? *J Pediatr Orthop.* 2017 Jun;37(4):e277-e281. doi: 10.1097/BPO.0000000000000958. PMID 28244929.
19. **Brusalis CM**, Thibaudeau S, Carrigan RB, Lin IC, Chang B, Shah AS. Clinical characteristics of pyogenic flexor tenosynovitis in pediatric patients. *J Hand Surg Am.* 2017 May;42(5):388.e1-388.e5. doi: 10.1016/j.jhsa.2017.02.007. PMID 28341068.
  20. Flynn K, Shah AS, **Brusalis CM**, Leddy K, Flynn JM. Flexion Supracondylar Humerus Fractures: Ulnar Nerve Deficit is a Risk for Open Reduction. *J Bone Joint Surg Am.* 2017 Sep 6;99(17): 1485-1487.
  21. **Brusalis CM**, Lakomkin N, Suryavanshi JR, Cruz AI, Jr., Green DW, Jones KJ, and Fabricant, PD. Clinical Outcomes Reporting in Youth ACL Literature is Widely Variable. *Orthop J Sports Med.* 2017 Aug 11;5(8): 2325967117724431.
  22. **Brusalis CM**, Price CT, Sankar WN. Incidence of acetabular dysplasia in breech infants following initially normal ultrasound: the effect of variable diagnostic criteria. *J Child Orthop.* 2017 Aug 1;11(4):272-276.
  23. Cahill PJ, Samdani AF, **Brusalis CM**, Blumberg T, Asghar J, Bastrom TP, Pasha S, Refakis CA, Pahys JM, Flynn JM; Harms Study Group, Sponseller PD. Youth and experience: the effect of surgeon experience on outcomes in cerebral palsy scoliosis surgery. *Spine Deform.* 2018 Jan;6(1):54-59. doi: 10.1016/j.jspd.2017.05.007.
  24. Defrancesco CJ, Shah AS, **Brusalis CM**, Leddy K, Flynn K, and Flynn JM. Rate of open reduction for supracondylar humerus fractures varies across pediatric orthopaedic surgeons: a single-institution analysis. *J Orthop Trauma.* 2018 Oct;32(10):e400-e407. PMID: 30247284.
  25. **Brusalis CM**, Bostrom MPG, and Richardson SS. Has tranexamic acid in total knee arthroplasty made tourniquet use obsolete? *HSS J.* 2018 Oct;14(3):338-340. doi: 10.1007/s11420-018-9627-3. Epub 2018 Aug 15. PMID: 30258343.
  26. Gruskay JA, **Brusalis CM**, Heath MR, and Fabricant PD. Pediatric and adolescent ankle instability: diagnosis and treatment options. *Curr Opin Pediatr.* 2019 Feb;31(1):69-78. PMID: 30531226.
  27. Adams AJ, Refakis CA, Flynn JM, Pahys JM, Betz RR, Bastrom TP, Samdani AF, **Brusalis CM**, Sponseller PD, and Cahill PJ. Surgeon and caregiver agreement on the goals and indications for scoliosis surgery in children with cerebral palsy. *Spine Deform.* 2019 Mar;7(2):304-311. doi: 10.1016/j.jspd.2018.07.004. PMID: 30660226.
  28. Striano B, **Brusalis CM**, Flynn JM, Talwar D, and Shah AS. Operative Time and Cost Varies by Surgeon: Analysis of Supracondylar Humerus Fractures in Children. *Orthopedics.* 2019 Mar 12:1-5. doi: 10.3928/01477447-20190307-02. PMID: 30861076.
  29. Gausden EB, **Brusalis CM**, Qudsi RA, Swarup I, Fu M, Dodwell ER, and Fabricant, PD. Efficacy of antifibrinolytics in pediatric orthopaedic surgery: a systematic review and meta-analysis. *J Pediatr Orthop B.* 2019 Feb 15. PMID: 30789535.

30. Urwin JW, Trionfo A, Storey EP, **Brusalis CM**, Gajewski C, and Lawrence JTR. A novel low-cost surgical simulation tool for pinning supracondylar humerus fractures. *J Pediatr Orthop*. 2020;40(5):e317–e321. doi:10.1097/BPO.0000000000001460. PMID: 31633592.
31. **Brusalis CM**, Peck J, Wilkin, G, Buly RL, Nawabi DH, Ranawat AS, Kelly BT, and Sink EL. The “salvage” periacetabular osteotomy: early outcomes in patients treated for iatrogenic hip instability. *J Bone Joint Surg Am*. 2020 Jun 9. doi: 10.2106/JBJS.20.00087. PMID: 32516278.
32. **Brusalis CM** and Taylor SA. Periprosthetic fractures in reverse total shoulder arthroplasty: current concepts and advances in management. *Curr Rev Musculoskelet Med*. 2020 Aug;13(4):509-519. doi: 10.1007/s12178-020-09654-8. PMID: 32506260.
33. **Brusalis CM**, Greditzer HG, and Fabricant PD. Using MRI to diagnose complications associated with bioabsorbable implant fixation of osteochondral lesions: a practical guide. *HSS J*. 2020 Dec;16(Suppl 2):544-548. doi: 10.1007/s11420-020-09771-7. Epub 2020 Aug 1. PMID: 33380994.
34. Fabricant PD, **Brusalis CM (co-first author)**, Schachne JM, the PLUTO Study Group, and Matava MJ. Which metrics are being used to evaluate children and adolescents after ACL reconstruction? A systematic review. *Arthrosc Sports Med Rehabil*. 2020 Jul 22;2(4):e417-e428. doi: 10.1016/j.asmr.2020.04.006. PMID: 32875306; PMCID: PMC7451873.
35. Yang BW, **Brusalis CM**, Fabricant PD, and Greditzer HG. Articular cartilage repair in the knee: postoperative imaging. *J Knee Surg*. 2020 Sep 8. doi: 10.1055/s-0040-1716357. Epub ahead of print. PMID: 32898909.
36. **Brusalis CM**, Greditzer HG, Fabricant PD, Stannard JP, and Cook JL. BioCartilage augmentation of marrow stimulation procedures for cartilage defects of the knee: two-year clinical outcomes. *Knee*. 2020 Aug 20;27(5):1418-1425. doi: 10.1016/j.knee.2020.07.087. Epub ahead of print. PMID: 33010756.
37. Lamplot JD, **Brusalis CM**, Apostolakos JM, Langhans M, Hancock KJ, Pinnamaneni S, Kontaxis A, Warren RF, Rodeo SA, Greditzer HG, Taylor SA. CT-based preoperative planning provides a pathology and morphology-specific approach to glenohumeral instability with bone loss. *Arthroscopy*. 2021 Jan 27:S0749-8063(21)00035-9. doi: 10.1016/j.arthro.2021.01.021. Epub ahead of print. PMID: 33515735.
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39. Fabricant PD, Anatone AJ, Lin KM, **Brusalis CM**, Mackie AT, Pinnamaneni S, and Taylor SA. Corrective proximal humerus osteotomy with blade plate osteosynthesis in adolescents: a report of 2 cases. *JBJS Case Connect*. 2021 Jul 22;11(3). PMID 34293781.

40. **Brusalis CM**, Gruskay JA, Bornes TD, Langhans MT, and Ricci WM. Open reduction and internal fixation of patella fracture with contoured dorsal plating. *J Orthop Trauma*. 2021 Aug 1;35(Suppl 2):S34-S35. PMID 34227603.
41. White AE, **Brusalis CM**, Wellman DS, Taylor SA. Botulinum toxin as adjunct therapy in surgical management of a periprosthetic scapular spine fracture: a case report. *Clin Shoulder Elb*. 2022 Jun 24. doi: 10.5397/cise.2021.00556. Epub ahead of print. PMID: 35791683.
42. **Brusalis CM**, Thacher RR, Baral E, Wright TM, Gulotta LV, Dines DM, Warren RF, Fu MC, Taylor SA. Tribocorrosion is common but mild in modular humeral components in shoulder arthroplasty: an implant retrieval analysis. *JSES Int*. 2022 Feb 14;6(3):401-405. doi: 10.1016/j.jseint.2022.01.009. PMID: 35572421; PMCID: PMC9091787.
43. Manzi JE, **Brusalis CM**, Dowling B, Krichevsky S, Quan T, Huang D, Moran J, Kunze KN, Dines JS. The influence of stride width on kinematic and kinetics in high school and professional baseball pitchers: A propensity-matched biomechanical evaluation. *J Sci Med Sport*. 2022 Mar 18:S1440-2440(22)00072-X. doi: 10.1016/j.jsams.2022.03.009. Epub ahead of print. PMID: 35414479.
44. Kunze KN, Krivicich LM, **Brusalis CM**, Taylor SA, Gulotta LV, Dines JS, Fu MC. Pathogenesis, Evaluation, and Management of Osteolysis After Total Shoulder Arthroplasty. *Clin Shoulder Elb*. 2022 Jul 5. doi: 10.5397/cise.2021.00738. Epub ahead of print. PMID: 35971608.
45. **Brusalis CM**, White AE, Finocchiaro A, Dines DM, Dines JS, Kontaxis A, Taylor SA, Gulotta LV, and Fu MC. What specific activities are patients performing two years after primary reverse total shoulder arthroplasty? *Semin Arthroplasty*. Accepted 14 Dec. 2022. In press.
46. Jackson GR, Tuthill T, Allahabadi S, **Brusalis CM**, Kaplan DJ, Rea P, Sugrañes J, Obioha O, Knapik DM, Chahla J, Verma NN. Biceps tenodesis in patients age 35 years and younger yields favorable clinical outcomes with variable rates of return to sport and complications: a systematic review. *Arthroscopy*. 2022 Dec 14:S0749-8063(22)00830-1. doi: 10.1016/j.arthro.2022.12.009. Epub ahead of print. PMID: 36528216.
47. Jackson GR, Tuthill T, Schundler SF, Condon JJ, Salazar LM, Nwiloh M, Kaplan DJ, **Brusalis CM**, Khan ZA, Knapik DM, Chahla J, Cole BJ, and Verma NN. Acellular dermal allograft and tensor fascia lata autograft show similar patient outcome improvement and high rates of complications and failures at a minimum of two-year follow-up: a systematic review. *Arthroscopy*. 2023 Jan 16:S0749-8063(23)00021-X. doi: 10.1016/j.arthro.2023.01.003. Epub ahead of print. PMID: 36657648.
48. Green DW, Hidalgo Perea S, **Brusalis CM**, Chipman DE, Asaro LA, Cordasco FA. A modified Lemaire lateral extra-articular tenodesis in high-risk adolescents undergoing anterior cruciate ligament reconstruction with quadriceps tendon autograft: 2-year clinical outcomes. *Am J Sports Med*. 2023 Mar 14:3635465231160681. doi: 10.1177/03635465231160681. Epub ahead of print. PMID: 36917840.



49. Mowers C, Jackson GR, Condon JJ, Dhillon N, **Brusalis CM**, Khan ZA, Batra A, Jawanda H, Mameri ES, Kaplan DJ, Knapik DM, Verma NN, Chahla J. Medial collateral ligament reconstruction and repair show similar improvement in outcome scores, but repair shows higher rates of knee stiffness and failure: a systematic review. *Arthroscopy*. 2023 Mar 8:S0749-8063(23)00231-1. doi: 10.1016/j.arthro.2023.03.002. Epub ahead of print. PMID: 36898592.
50. Frazier LP, **Brusalis CM**, McMorrow KJ, Wagner KR, Quigley RA, Meeker ZD, Mazra AF, and Cole BJ. Establishing clinically significant outcomes after shoulder arthroplasty at minimum 5-year follow-up. *Rush Orthopaedic Journal*. In press.
51. Rauck R, **Brusalis CM**, Jahandar A, Kontaxis A, Lamplot JD, Warren R, Gulotta LV, and Taylor SA. Complete restoration of native glenoid width improves glenohumeral biomechanics following simulated Latarjet. *Am J Sports Med*. 2023 May 30:3635465231174910. doi: 10.1177/03635465231174910. Epub ahead of print. PMID: 37249128.
52. Forsythe B, Gamsarian V, Ward C, Mirle V, **Brusalis CM**. Rotator cuff repair with bone grafting of greater tuberosity cyst: a technique video. *Video Journal of Sports Medicine*. 2023;3(2). doi:10.1177/26350254231155501.
53. Mirle V, Gamsarian V, Krishnan A, **Brusalis CM**, Forsythe B. Non-classical Celiac disease as an unrecognized cause for postoperative knee swelling following patellofemoral arthroplasty: a case report. *J Orthop Case Rep*. 2023 Jun;13(6):127-132. doi: 10.13107/jocr.2023.v13.i06.3722. PMID: 37398516; PMCID: PMC10308979.
54. Apostolakos JM, **Brusalis CM**, Uppstrom T, Thacher R, Kew M, Taylor SA. Management of football-related injuries about the shoulder. *HSS J*. 2023 Aug;19(3):339-350. doi: 10.1177/15563316231172107. Epub 2023 May 20. PMID: 37435133; PMCID: PMC10331269.
55. **Brusalis CM**, Fenn TW, Larson JH, Hapa O, Nho SJ. All-endoscopic modified Krackow suture for proximal hamstring repair. *Arthrosc Tech*. Accepted 10 May 2023. In press.
56. **Brusalis CM**, Huddleston HP, Lavalva SM, Gottlieb D, Fletcher C, Hinkley P, Gomoll AH, and Strickland SM. Short term outcomes of concomitant patellofemoral arthroplasty and medial patellofemoral ligament reconstruction to treat concurrent patellofemoral arthritis and patellar instability. *J Knee Surg*. 20 Jun 2023. doi: 10.1055/s-0043-1770156. Epub ahead of print. PMID: 37339670.
57. Jackson GR, Lee J, Tuthill T, Chan J, Sugranes J, Mowers CC, Batra A, Khan ZA, Mameri ES, **Brusalis CM**, Chahla J, Verma NN. Higher rates of residual postoperative instability after anterior cruciate ligament reconstruction in female patients: a systematic review of Level II studies. *Arthrosc Sports Med Rehabil*. 2023 Jul 29;5(5):100772. doi: 10.1016/j.asmr.2023.100772. PMID: 37560145; PMCID: PMC10407150.

58. Jackson GR, Jawanda H, Batra A, Familiari F, Khan ZA, **Brusalis CM**, Verma NN. Elbow ulnar collateral ligament repair with suture augmentation results in good clinical results, a return to play rate between 67% and 93%, and a postoperative complication rate up to 11.9%: a systematic review. *Arthrosc Sports Med Rehabil*. 2023 Jul 29;5(5):100761. doi: 10.1016/j.asmr.2023.100761. PMID: 37546384; PMCID: PMC10400855.
59. Jawanda H, **Brusalis CM**, Allahabadi S, Kerzner B, Kaplan DJ, Allende F, Obioha OA, Khan ZA, Laprade RF, Chahla J. Anterior opening wedge high tibial osteotomy in the setting of genu recurvatum. *Arthrosc Tech*. Accepted 26 June 2023. In press.
60. Khan ZA, Kerzner B, Jackson GR, Jawanda HS, McCormick JR, **Brusalis CM**, Chan JJ, Kaplan DJ, Verma NN. Single-incision distal biceps tendon repair with bicortical tensionable locking button fixation. *Arthrosc Tech*. Accepted 29 June 2023. In press.
61. Batra AK, **Brusalis CM**, Jawanda H, Jackson GR, and Verma NN. Lateral decubitus positioning for shoulder arthroscopy. *Video Journal of Sports Medicine*. 2023;3(3). doi:10.1177/26350254231169488.
62. Larson JH, **Brusalis CM**, Allahbadi S, Fenn TW, Chapman RS, Browning RB, Kaplan DJ, and Nho SJ. Concomitant endoscopic gluteal tendon repair and arthroscopic hip labral repair results in comparable outcomes to isolated endoscopic gluteal tendon repair: a propensity-matched analysis with minimum 2-year follow-up. *Orthop J Sports Med*. Accepted 29 June 2023. In press.
63. Kerzner B, Khan ZA, Dasari SP, **Brusalis CM**, McCormick JR, La Banca V, Hevesi M, Verma NN. Custom, Three-Dimensional Patient-Specific Instrumentation in Anatomic Shoulder Arthroplasty: Part 1, Preoperative Assessment, Preoperative Planning, and Guide Design. *Arthrosc Tech*. Accepted 15 July 2023. In press.
64. Kerzner B, Khan ZA, Dasari SP, La Banca V, McCormick JR, Schundler SF, **Brusalis CM**, McCormick JR, Hevesi M, Verma NN. Custom, Three-Dimensional Patient-Specific Instrumentation in Anatomic Shoulder Arthroplasty: Part 2, Dissection and Soft Tissue Management. *Arthrosc Tech*. Accepted 15 July 2023. In press.
65. Kerzner B, Khan ZA, Dasari SP, **Brusalis CM**, McCormick JR, La Banca V, Hevesi M, Verma NN. Custom, Three-Dimensional Patient-Specific Instrumentation in Anatomic Shoulder Arthroplasty: Part 3, Prosthesis Placement, Subscapularis Repair, Postoperative Rehabilitation. *Arthrosc Tech*. Accepted 15 July 2023. In press.
66. **Brusalis CM**, Chastain KL, Uppstrom TJ, Steineman BD, Gomoll AH, Maher SA, Strickland SM. Medial meniscal posterior root tears lead to changes in joint contact mechanics at low flexion angles during simulated gait. *Am J Sports Med*. Accepted 29 Aug 2023. In press.
67. Allahabadi S, Chapman RS, Fenn TW, **Brusalis CM**, Kaplan DJ, Nho SN. Hip arthroscopy with chondrolabral refixation, osteochondroplasty, and routine capsular closure for

femoroacetabular impingement syndrome: clinical outcomes at minimum 10-year follow-up. *Am J Sports Med.* Accepted 15 Sept 2023. In press.

68. Fenn TW, **Brusalis CM**, Allahabadi S, Alvero A, Nho SJ. Impact of proximal hamstring tear characteristics on achievement of clinically significant outcomes following endoscopic and open repair at minimum 2-year follow-up. *Am J Sports Med.* Accepted 29 Aug 2023. In press.
69. **Brusalis CM**, Patel KS, An HS, Verma NN. Is it the shoulder, the neck, or both? How to differentiate between shoulder pathology and cervical spine pathology. *J Am Acad Orthop Surg.* Accepted 23 Oct 2023. In press.
70. **Brusalis CM**, Weissman AC, Yazdi AA, Allahabadi S, Cole BJ. Arthroscopic-assisted core decompression of humeral head osteonecrosis with bone marrow aspirate concentrate augmentation. *Video Journal of Sports Medicine.* Accepted 23 Oct 2023. In press.

#### **Conference Abstracts and Presentations:**

1. Calderon Y, Chin R, Cowan E, **Brusalis C**, Zhan C, Leider J. A Validation Study of High Volume, Rapid HIV Testing in a South Bronx Municipal Hospital. Presented at the Western Regional Society of Academic Emergency Medicine (SAEM) Meeting in Keystone, Colorado, February 24-26, 2011. Poster Presentation. Presented at the Society of Academic Emergency Medicine (SAEM) Annual Meeting in Boston, Massachusetts, June 1-5, 2011. Poster Presentation. Presented at 6th IAS Conference on HIV Pathogenesis, Treatment and Prevention (IAS 2011) in Rome, Italy, July 17-20, 2011. Electronic Poster Presentation.
2. Calderon Y, Cowan E, Schramm C, Stern S, **Brusalis C**, Leider J. Testing Preferences and Knowledge of HBV and HCV among a New York City Emergency Department Patient Population. Presented at 18<sup>th</sup> Conference on Retroviruses and Opportunistic Infections (CROI) in Boston, Massachusetts, February 27-Mar. 2, 2011. Poster Presentation. Presented at 6th IAS Conference on HIV Pathogenesis, Treatment and Prevention (IAS 2011) in Rome, Italy, July 17-20, 2011. Poster Presentation.
3. Calderon Y, Cowan E, Velloza J, Korich F, McLoughlin E, **Brusalis C**, Leider J. Assessing HIV Testing in Community Pharmacies as a Complementary Community Site to an HIV Testing and Counseling Program based in a New York City Emergency Department. Presented at 18<sup>th</sup> Conference on Retroviruses and Opportunistic Infections (CROI) in Boston, Massachusetts, February 27-Mar. 2, 2011. Poster Presentation.
4. Calderon Y, Cowan E, Simberlund J, Sonnick M, Wexler J, **Brusalis C**, Leider J. Assessing the Impact of Inpatient HIV Testing in a Hospital with an ED-based Rapid HIV Testing and Counseling Program. Presented at 18<sup>th</sup> Conference on Retroviruses and Opportunistic Infections (CROI) in Boston, Massachusetts, February 27-Mar. 2, 2011. Poster Presentation.
5. **Brusalis C**, Leider J, Cowan E, Calderon Y. Analysis of Risk Factors and Effectiveness of Emergency Department (ED) Based Multimedia HIV Testing and Counseling in a Geriatric Cohort. Presented at 6th IAS Conference on HIV Pathogenesis, Treatment and Prevention

(IAS 2011) in Rome, Italy, July 17-20, 2011. Poster Presentation. Presented at 2011 National HIV Prevention Conference in Atlanta, Georgia, August 14-17, 2011. Poster Presentation

6. **Brusalis C**, Leider J, Cowan E, Calderon Y. Age Comparison of Characteristics and Linkage to Care Results of HIV-diagnosed Patients from a Multimedia HIV Testing and Counseling Program in a New York City Emergency Department. Presented at 6th IAS Conference on HIV Pathogenesis, Treatment and Prevention (IAS 2011) in Rome, Italy, July 17-20, 2011. Poster Presentation. Presented at 2011 National HIV Prevention Conference in Atlanta, Georgia, August 14-17, 2011. Poster Presentation
7. Calderon Y, Cowan E, Nickerson J, Leu CS, **Brusalis C**, Rosenberg M, Leider J, Bauman L. Project Control: Evaluation of a Brief HIV Counseling Video to Improve Teenagers' Risk Reduction Behavior. Presented at 6th IAS Conference on HIV Pathogenesis, Treatment and Prevention (IAS 2011) in Rome, Italy, July 17-20, 2011. Poster Presentation. Presented at 2011 Caribbean HIV Conference: Strengthening Evidence To Achieve Sustainable Action in The Bahamas, Nov. 18-21, 2011. Poster Presentation.
8. Calderon Y, Adedimeji A, Cowan E, Kaba M, Asibon A, **Brusalis C**, Leider J, Bauman L. Qualitative Investigation into the Use of HIV Educational Videos among Black African Immigrants. Presented at 6th IAS Conference on HIV Pathogenesis, Treatment and Prevention (IAS 2011) in Rome, Italy, July 17-20, 2011. Electronic Poster Presentation. Presented at 2011 National HIV Prevention Conference in Atlanta, Georgia, August 14-17, 2011. Oral Presentation.
9. Calderon Y, Cowan E, Molano F, Velloza J, Korich F, McLoughlin E, **Brusalis C**, Leider J. Expansion of a Rapid HIV Testing and Counseling Program into Three Community Pharmacies in High Prevalence Areas of New York City. Presented at 6th IAS Conference on HIV Pathogenesis, Treatment and Prevention (IAS 2011) in Rome, Italy, July 17-20, 2011. Electronic Poster Presentation. Presented at 2011 National HIV Prevention Conference in Atlanta, Georgia, August 14-17, 2011. Poster Presentation. Presented at 2011 Caribbean HIV Conference: Strengthening Evidence To Achieve Sustainable Action in The Bahamas, Nov. 18-21, 2011. Poster Presentation.
10. Leider J, **Brusalis C**, Cutler B, Tsoi B, King A, Cowan E, Calderon Y, Sweeney M. An Integrated Model of Multimedia HIV Testing with Active Navigation and Facilitated Linkage to Care. Presented at 6th IAS Conference on HIV Pathogenesis, Treatment and Prevention (IAS 2011) in Rome, Italy, July 17-20, 2011. Electronic Poster Presentation. Presented at 2011 National HIV Prevention Conference in Atlanta, Georgia, August 14-17, 2011. Poster Presentation.
11. Calderon Y, Cowan E, **Brusalis C**, Mathew S, Korich F, Velloza J, Leider J. Comparison of Testing Preferences and Knowledge of HBV and HCV among New York City Emergency Department and Community Pharmacy Populations. Presented at INDO-US Emergency Medicine Summit 2011, New Delhi, India, Sept. 28-Oct. 2, 2011. Poster Presentation.
12. Calderon Y, Cowan E, **Brusalis C**, Mantell J, Sandfort T, Leider J. HIV Pre-exposure Prophylaxis (PrEP): Knowledge and Attitudes among a New York City Emergency Department Patient Population. Presented at the 2012 International Symposium on HIV and

Emerging Infectious Diseases (ISHEID 2012), Marseilles, France, May 23-25, 2012. Poster Presentation.

13. Calderon Y, Leider J, Cowan E, Gilliam C, Asibon A, **Brusalis C**, Badner V. Implementing a rapid HIV testing program in a New York City hospital-based dental clinic. Presented at XIX International AIDS Conference (AIDS 2012), Washington, D.C., 22-27 July 2012. Poster Presentation.
14. Calderon Y, Leu CS, Cowan E, Wexler J, **Brusalis C**, Leider J, Bauman L. A randomized controlled trial to compare a brief HIV counseling video to written HIV information in offering HIV testing to adolescent patients in a New York City Emergency Department. Presented at XIX International AIDS Conference (AIDS 2012), Washington, D.C., 22-27 July 2012. Poster Presentation.
15. Cohen JE, Purcell BP, MacArthur JW Jr, Patel JB, Fairman AS, Shudo Y, Trubelja A, Edwards BB, Hiesinger W, **Brusalis C**, Goldstone AB, Atluri P, Burdick JA, Woo YJ. A bioengineered hydrogel system enables targeted and sustained intramyocardial delivery of neuregulin, activating the cardiomyocyte cell cycle and enhancing ventricular function in ischemic cardiomyopathy. Poster Presentation at American Heart Association Scientific Sessions. Dallas, TX. November 2013.
16. Shudo Y, Cohen JE, Trubelja A, Ku M, MacArthur JW Jr, Patel JB, Fairman AS, Edwards BB, **Brusalis C**, Atluri P, Hiraoka A, Miyagawa S, Sawa Y, Woo YJ. A tissue engineered chondrocyte cell-sheet induces extracellular matrix modification to enhance ventricular biomechanics and attenuate myocardial stiffness in ischemic cardiomyopathy. Poster Presentation at American Heart Association Scientific Sessions. Dallas, TX. November 2013.
17. Cohen JE, MacArthur JW Jr, Howard JL, Emery RJ, VanderMeer EC, Sheridan MA, Acker AL, Goldstone AB, **Brusalis CM**, Fairman AS, Patel JB, Trubelja A, Hung G, Edwards BB, Hiesinger W, Atluri P, Woo YJ. Long-term quantitative analysis of change in mitral regurgitation following aortic valve replacement: a case for aggressive mitral intervention. Poster Presentation at Western Thoracic Surgical Association. Dana Point, CA. June 2014.
18. **Brusalis CM**, Shah AM, Scarpato S, Mao F, King ES. Interdisciplinary communication facilitates early discharges on an academic general medicine service. Poster Presentation at Society of Hospitalist Medicine's Annual Meeting, National Harbor, MD. March 2015.
19. Gornitzky AL, Lott A, Yellin JL, Fabricant PD, **Brusalis CM**, Lawrence, JT, Ganley, TJ. Sport-specific yearly risk and incidence of anterior cruciate ligament tears in high school athletes: a systematic review and meta-analysis. E-poster presented at International Pediatric Orthopaedic Symposium, Orlando, FL. December 2015.
20. **Brusalis CM**, Shah AS, Luan X, Sankar WN. A dedicated orthopaedic trauma operating room improves efficiency at a pediatric center. Podium Presentation at 6<sup>th</sup> Annual CHOP Quality & Patient Safety Day, Philadelphia, PA. May 2016. Podium presentation at AAOS 2017, San Diego, CA.

21. **Brusalis CM**, Lawrence JT, Ranade S, Kerr JC, Hiller D, Pulos N, Wells L, Ganley TJ. Can a novel, low-cost simulation model be used to teach and evaluate surgical trainees in anterior cruciate ligament graft preparation? Poster Presentation at 6<sup>th</sup> Annual CHOP Quality & Patient Safety Day, Philadelphia, PA. May 2016. Poster presentation at PRISM 2017, Dallas, TX. Electronic poster presentation at EPOSNA 2017, Barcelona, Spain.
22. **Brusalis CM**, Thibaudeau S, Carrigan RB, Lin IC, Chang B, Shah AS. Pyogenic flexor tenosynovitis in pediatric patients: clinical characteristics and early outcomes. E-poster presentation at 71<sup>st</sup> Annual Meeting of the American Surgical Society of the Hand. Austin, TX. Sept. 2016.
23. **Brusalis CM**, Shah AS, Flynn K, Leddy K, Flynn JM. ORIF for the Irreducible Supracondylar Humerus Fracture Varies by Surgeon, Not Years of Experience. Accepted for presentation at AAP 2017, San Francisco, CA. Podium presentation at AAOS 2017, San Diego, CA, March 2017. Electronic poster presentation at EPOSNA 2017, Barcelona, Spain, May 2017.
24. Flynn K, Leddy K, **Brusalis CM**, Flynn JM. Flexion Supracondylar Humerus Fractures: Ulnar Nerve Deficit is a Risk for Open Reduction. Podium presentation at AAP 2017, San Francisco, CA. Poster Presentation at AAOS 2017, San Diego, CA. Podium presentation at EPOSNA 2017, Barcelona, Spain, May 2017.
25. **Brusalis CM**, Price CT, Sankar WN. Incidence of acetabular dysplasia in breech infants following initially normal ultrasound: beware of variable diagnostic criteria. Podium presentation at AAOS 2017, San Diego, CA, March 2017. Poster presentation at EPOSNA 2017, Barcelona, Spain, May 2017.
26. **Brusalis CM**, Jarvis-Selinger S, Rosenblatt J, Herman MJ, Mulcahey MK, Sowards JM, & Mehta S. Near-peer teaching in orthopaedic surgery: happening with little oversight. Poster presentation at 2017 ACGME Annual Education Conference, March 2017. Orlando, FL.
27. **Brusalis CM**, Lakomkin N, Suryavanshi JR, Cruz AI, Jr., Green DW, Jones KJ, and Fabricant, PD. Clinical Outcomes Reporting in Youth ACL Literature is Widely Variable. E-poster presentation at Pediatric Research in Sports Medicine (PRISM), January 2018. Fort Lauderdale, FL.
28. **Brusalis CM**, Peck J, Wilkin, G, Buly R, Nawabi D, Ranawat A, Kelly B, and Sink E. The “salvage” periacetabular osteotomy: early outcomes in patients treated for iatrogenic hip instability. E-poster presentation at International Society for Hip Arthroscopy (ISHA), October 17-19, 2019. Madrid, Spain.
29. Lamplot JD, Kontaxis A, **Brusalis CM**, Warren RF, Rodeo SA, Apostolakos J, Langhans MT, Greditzer HG, and Taylor SA. Getting back on-track: preoperative planning for Latarjet in the setting of glenohumeral instability with bone loss. Poster presentation at Orthopaedic Research Society Annual Meeting. 12-16 February 2021.
30. Rauck RC, **Brusalis CM**, Jahandar A, Kontaxis A, and Taylor SA. How much glenoid bone loss needs to be restored with a Latarjet? Podium presentation at Orthopaedic Research

Society Annual Meeting. 4-8 February 2022, Tampa, FL. E-poster presentation at AANA 2022 Annual Meeting 19-21 May 2022, San Francisco, CA.

31. Dandu N, Elias T, Allahabadi S, **Brusalis CM**, Beals C, Trasolini N, Bodendorfer B, Haneberg E, Cole B, Yanke AB. Radiographs Demonstrate Poor Interrater Reliability and Accuracy for Evaluation of Postoperative Healing for Osteochondral Allograft Transplants of the Knee. Poster Presentation AOSSM July 13-16, 2023.
32. Jackson GR, Kaplan DJ, **Brusalis CM**, Allahabadi S, Verma NN. Male and Female Patients Have Similar Outcomes Following Anatomic Total Shoulder Arthroplasty. International Society for Technology in Arthroplasty. New York City, NY. September 27-30, 2023.
33. Jackson GR, Kaplan DJ, **Brusalis CM**, Allahabadi S, Verma NN. Patients with Medicare or Medicaid Insurance have Similar Outcomes Compared with Private Insurance Following Reverse Total Shoulder Arthroplasty. International Society for Technology in Arthroplasty. New York City, NY. September 27-30, 2023.
34. Jackson GR, **Brusalis CM**, Fomunung C, Fernandez C, Sabesan VJ, Routman H. Prior Shoulder Arthroscopy is Associated with Worse Outcomes Following Primary Reverse Shoulder Arthroplasty. International Society for Technology in Arthroplasty. New York City, NY. September 27-30, 2023.

### **Book Chapters**

1. **Brusalis CM**, Chan JJ, Jackson GR, Khan ZA, Kaplan DJ, Allahabadi S, and Verma NN. Advanced subscapularis repair techniques. In Advanced Surgical and Biologic Management of Rotator Cuff Pathology, Operative Techniques in Sports Medicine. Verma NN, Ed, Elsevier, NY. 2023.
2. Frazier LP, Quigley RA, Galvis JW, Waterman BR, **Brusalis CM**, and Cole BJ. Put a patch on it!: when and how to perform soft-tissue augmentation in rotator cuff surgery. Operative Techniques in Sports Medicine. Verma NN, Ed, Elsevier, NY. 2023.
3. Kaplan DJ, Jackson GR, Khan ZA, **Brusalis CM**, Allahabadi S, Chahla J, and Verma NN. Posterior instability outcomes over the last 20 years – where are we now? Frank R, Tokish JT, In press.
4. Batra AK, **Brusalis CM**, McCormick J, Jawanda H, Khan Z, Allahabadi S, Jackson GR, and Chahla J. Optimal use of PRP and PPP. Orthobiologics. Frank RM and Chahla J, Ed. Elsevier, NY. 2023.
5. Weissman A, Yazdi A, McMorrow K, Dhawan A, Karas V, **Brusalis CM**, and Cole BJ. Articular Cartilage Injury. ACSM's Sports Medicine: A Comprehensive Review. Wolters Kluwer Health. 2023. In Press.

**Online Video Publications**

1. **Brusalis CM**, Gruskay JA, Bornes TD, Langhans MT, and Ricci WM. ORIF patella fracture with contoured dorsal plating. 2020 Orthopaedic Trauma Association Annual Meeting Video Showcase. Accepted 5 October 2020.

**Investigator of Grant**

2016 **Chair's Award for Innovation in Surgical Education**

The Children's Hospital of Philadelphia, Philadelphia, PA

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"Teaching Supracondylar Humerus Fracture Fixation: Can a Cost-Effective, Low-Fidelity Simulation Tool Improve Performance of Orthopaedic Surgery Residents?"

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