

MARCH 2023

Division of Orthopaedic Surgery and Sports Medicine: Research Summary



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Meet Our Surgeons and Team

PEDIATRIC ORTHOPAEDIC SURGERY



[Erik King, MD](#)
Interim Division Head



[Matthew Bueche, MD](#)



[Aimee Brasher, MD](#)



[Craig J. Finlayson, MD](#)



[Eric B. Fuller, MD](#)



[Romie Gibly, MD, PhD](#)



[John J. Grayhack, MD](#)



[Denise Ibrahim, DO](#)



[Joseph A. Janicki, MD, MS](#)



[Jill E. Larson, MD](#)



[Laura Lemke, MD](#)



[Ernest Brian Lindell, MD](#)



[Brett R. Lullo, MD](#)



[Neeraj M. Patel, MD, MPH](#)



[Michelle Sagan, MD](#)



[John Sarwark, MD](#)



[Vineeta T. Swaroop, MD](#)

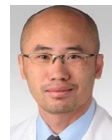
PEDIATRIC SPORTS MEDICINE



[Cynthia R. LaBella, MD](#)
Medical Director



[Rebecca Carl, MD, MS](#)
Non-operative Orthopaedics



[Brian Tho Hang, MD](#)



[Sigrid F. Wolf, MD](#)

PEDIATRIC ORTHOPAEDIC ONCOLOGY



[Samer Attar, MD](#)



[Terrance Peabody, MD](#)

PEDIATRIC REHABILITATION



[Benjamin Katholi, MD](#)



[Ana Marie Rojas, MD](#)

PHYSICIAN ASSISTANTS



[Tara Counts, PA-C](#)



[Elizabeth Galvan, PA-C](#)



[Rebekah Hall, PA-C](#)



[Michelle Krischel, PA-C](#)

(continued on page 2)

Meet Our Surgeons and Team *(continued from page 1)*

ADVANCED PRACTICE NURSES



[Miranda De Loof, MSN, APN, NP-C](#)



[Leslie Gamez-Gallo, MSN, APN, CPNP](#)



[Katherine Hentz, MSN, APRN, FNP-C](#)



[Katy Kennelly, MSN, APN, CPNP](#)



[Meghan Kostyk, MSN, APN, CPNP](#)



[Julie Martin, APN, CPNP](#)



[Kristine Santos Martin, MSN, APN, CPNP](#)



[Elizabeth Powell, MSN, RN, FNP-C](#)



[Katherine Shannon, MS, APN, PNP-BC](#)



[Diane Sheehan, ND, APN, FNP-BC](#)



[Brigid Smigiel, MSN, ANP-C](#)



[Catherine Tomaka, MSN, APN-C](#)



[Jacqueline Turner MSN, APN, FNP-BC](#)

ORTHOPAEDIC NURSES

Emily McNitt, BSN, RN
Annie Oliver, MS, BSN, RN
Maggie Ryan, RN
Nellison Sampang, RN
Zaida Torres, BSN, RN
Melissa Vega, RN

ATHLETIC TRAINERS

Cait Elwart, ATC
Gretchen Dauman, MS, ATC
Kristi McCracken, MBA, ATC
Adam Potteiger, MS, ATC
Lisa Watts, MS, ATC

SENIOR DIRECTOR OF SURGERY



Jennifer Marcordes, BSHA

DIVISION OPERATIONS MANAGER



Emily Worobec, MBA, MEd, ATC

CLINICAL RESEARCH STAFF



Jamie Burgess, PhD



Jacob Farley



Amanda Kass



Daniel McBride



Delanie Rybacki



Candace Young

Highlights of Ongoing Studies

The following list of studies is not comprehensive of all ongoing studies, but highlights a number of studies that began throughout 2021 and 2022.

ORTHOPAEDIC STUDIES

[COMET Trial –Cast or Operation for Medial Epicondyle fracture Treatment in children](#)

PI: Joseph A. Janicki, MD, MS

Co-I: Jamie Burgess, PhD

[DRIFT Trial - Distal Radius Interventions for Fracture Treatment](#)

PI: Joseph A. Janicki, MD, MS

Co-I: Jamie Burgess, PhD

[Efficacy of a Peri-Operative Surgical Site, Multimodal Drug Injection in Pediatric Patients with Cerebral Palsy Undergoing Hip Surgery: A Randomized Controlled Trial](#)

PI: Vineeta T. Swaroop, MD

Co-I: Jill E. Larson, MD, PhD

[Evaluation the Necessity of Operative Irrigation and Debridement: Pediatric Randomized Trial of Type One Open Fractures \(PROOF\)](#)

PI: Joseph A. Janicki, MD, MS

[Less is MOIRE \(MRI for Orthopaedic Infection Rapid Evaluation\): A rapid unsedated, noncontrast MRI protocol for pediatric musculoskeletal infection diagnosis \(QSVI\)](#)

PI: Romie Gibly, MD

Co-I: Jonathan D. Samet, MD

[The Pediatric ALL Evaluation and Trial \(PALLET\): A Randomized, Controlled Trial](#)

PI: Neeraj M. Patel, MD, MPH

[Referral of subjects to Effectiveness of an mHealth psychosocial intervention \(SurgeryPal\) to prevent transition from acute to chronic postsurgical pain in adolescents](#)

PI: Diane Sheehan, ND, APN, FNP-BC

[Simple Bone Cysts in Kids \(SBoCK\)](#)

PI: Joseph A. Janicki, MD, MS

[The Treatment of Type I Open Fractures in Pediatrics: Evaluating the Necessity of Formal Irrigation and Debridement](#)

PI: Joseph A. Janicki, MD, MS

[Vitamin D and Fracture Risk in the Pediatric Population](#)

PI: Joseph A. Janicki, MD, MS

SPORTS MEDICINE STUDIES

[Auditory Processing in Children Recovering from a Concussion: Biological Insights](#)

PI: Cynthia R. LaBella, MD

[Gross Motor Development in Infants and Children with Talipes Equinovarus a 3-year Longitudinal Cohort Study](#)

PI: Rebecca Carl, MD, MS

[KIPP & AMSSM Youth Sport Advocacy](#)

PI: Cynthia R. LaBella, MD

Key Awards and Honors

This list is not comprehensive of all awards and honors and serves to highlight a number of recent awards within the division.

Pediatric Orthopaedic Society of North America

Neeraj M. Patel, MD, MPH

St. Giles Young Investigator Award

Pediatric ALL Evaluation and Trial (PALLET): A randomized trial of ALL reconstruction in children

Pediatric Orthopaedic Society of North America

Romie Gibly, MD

St. Giles Young Investigator Award

The impact of E-cigarette vaping on bone metabolism

Society for Skeletal Radiology 2021 Research Seed Grant Program

Romie Gibly, MD

Rapid-sequence, Unsedated, Non-contrast MRI for Acute Musculoskeletal Infection Workup

Tune in

Three of our orthopaedic physician-researchers share their current scientific pursuits, and how that will transform care children and teens with orthopaedic disorders in this episode of Lurie Children's Precision: Perspectives on Children's Surgery podcast.



[Listen now](#)

Publications

A selection of our faculty's more than 40 academic publications since the start of 2022

Romie Gibly, MD, PhD

Gibly, R. F., Georgopoulos, G., Carry, P. M., & Miller, N. H. (2022). Lower extremity physeal fractures and post-traumatic surgical deformities; National Trauma Data Bank and institutional cohorts. *Journal of Clinical Orthopaedics and Trauma*, 27, 101827. <https://doi.org/10.1016/j.jcot.2022.101827>

Joseph A. Janicki, MD, MS

Li, Y., Sanborn, R. M., Cook, D., Baldwin, K. D., Beebe, A. C., Denning, J. R., Goldstein, R. Y., Janicki, J. A., Johnson, M. E., Truong, W. H., Shore, B. J., & Children's Orthopaedic Trauma and Infection Consortium for Evidence-Based Studies (CORTICES) (2023). Descriptive Epidemiology of Upper Extremity Septic Arthritis in Children-Review of a Retrospective Multicenter Database. *Journal of Pediatric Orthopedics*, 43(1), 46–50. <https://doi.org/10.1097/BPO.0000000000002266>

Cynthia LaBella, MD

Gulati, R., Rychlik, K., Wild, J.T., & LaBella, C.R. (2022). Rhythmic gymnasts' injuries in a pediatric sports medicine clinic in the United States: a 10-year retrospective chart review. *The Physician and Sportsmedicine*, 50(5), 454–460. <https://doi.org/10.1080/00913847.2022.2040890>

Neeraj M. Patel, MD, MPH

Patel, N. M., Schmitz, M.R., Bastrom, T.P., Ghag, R., Janicki, J.A., Kushare, I.V., Lewis, R., Mistovich, R.J., Nelson, S.E., Sawyer, J.R., Vanderhave, K.L., Wallace, M.J., & McKay, S.D. (2022). Interobserver and Intraobserver Agreement are Unsatisfactory When Determining Abstract Study Design and Level of Evidence. *Journal of Pediatric Orthopedics*, 42(6), e696–e700. <https://doi.org/10.1097/BPO.0000000000002136>

Rosenberg, S. I., Ouweleen, A. J., Hall, T. B., & Patel, N. M. (2023). Are Neighborhood Conditions Associated With Surgical Delays and Meniscus Tears in Children and Adolescents Undergoing ACL Reconstruction? *Clinical Orthopaedics and Related Research*, 481(2), 281–288. <https://doi.org/10.1097/CORR.0000000000002368>

Rosenberg S. I., Chu Y., Ouweleen A. J., Hall T. B., Patel N. M. Is Preferred Language Other Than English Associated With Delayed Surgery After ACL Injury in Children and Adolescents? *Clinical Orthopaedics and Related Research*, 481(2):292–298. <https://pubmed.ncbi.nlm.nih.gov/36073983/>

Vineeta T. Swaroop, MD

James T. Rague, Soojin Kim, Josephine Hirsch, Theresa Meyer, Iliana Rosoklija, Jill E. Larson, Vineeta T. Swaroop, Robin Bowman, Diana K. Bowen, Earl Y. Cheng, Elisa J. Gordon, Grayson Holmbeck, Daniel I. Chu, Tamara Isakova, Elizabeth B. Yerkes, David I. Chu (2022). The Association of Health Literacy with Health-Related Quality of Life in Youth and Young Adults with Spina Bifida: A Cross-Sectional Study. *The Journal of Pediatrics*, 251,156–163. <https://doi.org/10.1016/j.jpeds.2022.08.005>.



Research Conference Involvement

This list is not comprehensive of all research conferences and serves to highlight a number of recent presentations/conferences.

Craig J. Finlayson, MD

Finlayson C. Osteochondritis Dissecans. Meet the Lurie Children's Sports Medicine Team: Interactive Webinar. Ann and Robert H. Lurie Children's Hospital of Chicago, February 25, 2021.

Romie Gibly, MD, PhD

Kyle Chan, BA; Daniel McBride, BS; Jacob T. Wild, BS; Jonathan Samet, MD; Romie F. Gibly, MD, PhD. A Rapid MRI Protocol for Acute Pediatric Musculoskeletal Infection: Decreases Sedation, Contrast, Scan Time, Interpretation Time, and Hospital Length of Stay without Missing Actionable Diagnoses.

Joseph A. Janicki, MD, MS

John M. Bryan, Jacob T. Wild, Jamie K. Burgess, Joseph A. Janicki; High Variation in Surgical Rates for Pediatric Clavicle Fractures and the Influence of Socio-economic Factors. *Pediatrics*. February 2022; 149 (1 Meeting Abstracts February 2022): 781.

Bryan, J. M.; Thompson, R. M.; Yu, B.; Strohbach, C. A.; Ziauddin, L.; Burgess, J. K.; Janicki, J. A. Vitamin D Insufficiency and Metaphyseal Fractures in Children.

Erik King, MD

Syndactyly. Franciscan Midwest Residency Program. 2021

Brachial Plexus Palsy and Principles of Tendon Transfer. Shirley Ryan Ability Lab. September 16, 2021.

Cynthia R. LaBella, MD

Jacob T. Wild, Cynthia R. LaBella, Sonia Ruparell, John M. Bryan; Integrating Voter Registration into the History and Physical Exam: A Pilot in the Sports Medicine Arena. *Pediatrics*. February 2022; 149 (1 Meeting Abstracts February 2022): 208.

Ruparell, S.; Wild, J. T.; Render, A.; DemAio, E.; Hunt, D.; Straccioli, A.; Jayanthi, N.; Labella, C. The Relationship of Sport Specialization and Injury Type in Young Athletes: A Multi-site Study; Podium Presentation at American Medical Society For Sports Medicine National Conference and Exhibition, April 2021; Online.

Hanson, K.; Wild, J.T.; Burgess, J.K.; Labella, C. Mental Health and Wellbeing Outcomes in Specialized and Non-Specialized Youth Athletes Recovering from Concussion. Poster Presentation at American Medical Society For Sports Medicine National Conference and Exhibition, April 2021; Online.

Gulati, R.; Wild, J. T.; Labella, C. Epidemiology of injuries among pediatric rhythmic gymnasts. Poster Presentation at American Medical Society For Sports Medicine National Conference and Exhibition, April 2021; Online.

Jill E. Larson, MD

Annemarie Leonard; Ian Erkkila; Matthew Ravosa; Jill Larson, MD. The Blade Quality Scale: A Visual Classification System for the Use-mediated Thermogenic Properties of Cast Saw Blades. 2022 Pediatric Orthopaedic Society of North America Annual Meeting.

Neeraj M. Patel, MD, MPH

Smith, H. E.; Patel, N. M. Trends in Pediatric Meniscal Allograft Transplantation: A Pediatric Hospital Information Systems Database Study. The annual meeting of the Pediatric Research in Sports Medicine Society; Virtual, January 2021.

Smith, H. E.; Patel, N. M. On the Rise: The Increasing Frequency of Pediatric Shoulder Stabilization Surgery in the United States. The annual meeting of the American Academy of Orthopaedic Surgeons; San Diego, CA, September 2021.

Patel, N. M.; Leska, T. M.; Ganley, T. J.; Aoyama, J. T.; Cruz, A. I.; Ellis, H. B.; Fabricant, P. D.; Green, D. W.; Jagodzinski, J. E.; Johnson, B.; Kushare, I.; Lee, R. J.; McKay, S. D.; Rhodes, J. T.; Sachleben, B. C.; Sargent, M. C.; Schmale, G. A.; Yen, Y.M.; Mistovich, R. J. What are the Causes and Consequences of Delayed Surgery for Pediatric Tibial Spine Fractures? The annual meeting of the Pediatric Orthopaedic Society of North America; Dallas, TX, May 2021.

Patel, N. M.; Leska, T. M.; Ganley, T. J.; Aoyama, J. T.; Cruz, A. I.; Ellis, H. B.; Fabricant, P. D.; Green, D. W.; Jagodzinski, J. E.; Johnson, B.; Kushare, I.; Lee, R. J.; McKay, S. D.; Rhodes, J. T.; Sachleben, B. C.; Sargent, M. C.; Schmale, G. A.; Yen, Y.M.; Mistovich, R. J. Uneven Playing Field: Insurance Status Adversely Affects Children with Tibial Spine Fractures. The combined annual meeting of the American Orthopaedic Society of Sports Medicine and Arthroscopy Association of North America; Nashville, TN, July 2021.

Patel, N. M.; McKay, S. D.; Pandya, N. K.; Ganley, T. J. Trends in Anterolateral Ligament Reconstruction and Lateral Extra-Articular Tenodesis in Children and Adolescents. The annual meeting of the American Academy of Orthopaedic Surgeons; San Diego, CA, September 2021.

Neeraj M. Patel, MD, MPH, MBS, Chicago, IL; Scott D. McKay, MD, FAAOS, Houston, TX; Nirav Kiritkumar Pandya, MD, FAAOS, Oakland, CA; Theodore J. Ganley, MD, FAAOS. Trends

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Lurie Children's Summer Internship Program

The Division of Orthopaedic Surgery and Sports Medicine supports undergraduate and graduate students who are interested in an educational experience designed for the intern to learn more about clinical research in orthopaedics and sports medicine. Coordinated by the research staff, and under the supervision of the physician scientists, the Summer Research Intern Program is designed to provide students with an educational experience that will allow them to gain practical experience through exposure to research project(s) within the division, attendance at weekly research meetings, and participation in research seminars and trainings. Being an intern at Lurie Children's offers vast exposure to clinical research and the world of medicine. Interns were exposed to real life situations in the clinical research area, including being able to shadow various clinicians in clinic and likely in surgery. This educational experience ran from June – August and we are excited to share the work from this summer's interns.

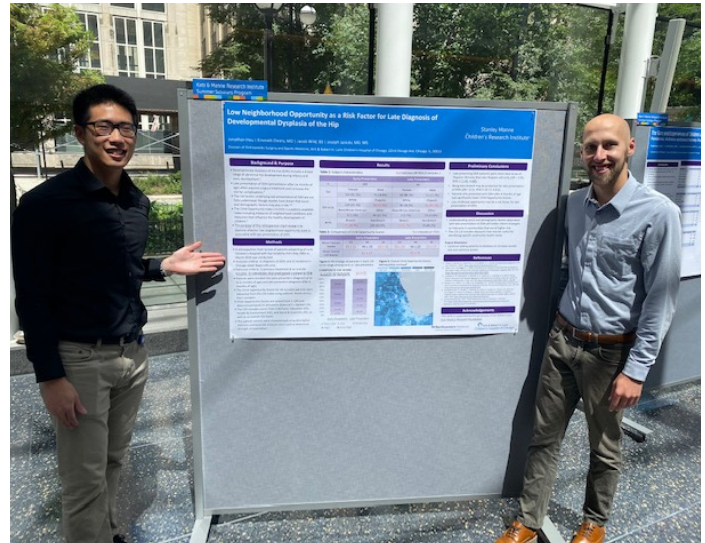
SUMMER INTERNS

Jonathan Hau — Low Neighborhood Opportunity as a Risk Factor for Late Diagnosis of Developmental Dysplasia of the Hip

The purpose of this retrospective chart review is to examine whether low neighborhood opportunity score is associated with late presentation of DDH.

Betsy Merritt — Comparison Of Early Complications Following Combined ACL and ALL Reconstruction vs. Isolated ACL Reconstruction in Children and Adolescents

The objective is to identify differences in early complication rates following isolated ACLR vs. combined ACLR + ALL reconstruction in pediatric patients.



Iggy Nah — Substratification of the Post-Concussion Symptom Scale (PCSS) as a Return-To-Play (RTP) Predictive Measure

The purpose is to investigate whether or not specific symptom subcategories can prove to be better predictors of return-to-play, which can lead to a shorter duration of medical clearance, focused therapies, and greater access to health information for patients.

Alex Slomba — Discoid Medial and Lateral Menisci of the Knee: Characteristics and Treatment Outcomes

This study aims to review demographics, procedures, and outcomes of patients treated with discoid medial and/or lateral menisci, an understudied anomaly that is associated with a higher incidence of meniscal tearing and instability.

Research Conference Involvement *(continued from page 5)*

in Anterolateral Ligament Reconstruction and Lateral Extra-Articular Tenodesis in Children and Adolescents. American Academy of Orthopaedic Surgeons 2021; Philadelphia, PA.

Wild, J. T.; Hartman, T; Spirov, L; Kamani, Y; Bryan, J.; Patel, N. Timeout? The Epidemiology of Pediatric Sports Injuries During the COVID-19 Pandemic, POSNA 2021.

John Sarwark, MD

Steven Kurapaty, MD; Jacob T. Wild; Alyssa Goodwin, BS; Peter Swiatek, MD; John F. Sarwark, MD. Elucidating New Genetic Features of IS to Better Understand Idiopathic Scoliosis Etiology: A Literature Review. 16th Annual Lewis Landsberg Research Day, Chicago, IL; September 2022.

Vineeta T. Swaroop, MD

Vineeta Swaroop. Pediatric Hip and Elbow Emergencies. Lecturer, Department of Orthopaedic Surgery, Northwestern University Feinberg School of Medicine, 20th Annual Hartigan Memorial Orthopaedic Boot Camp; June 25, 2021.

Andrea (Andy) A. Domenighetti; Lydia A. Sibley; Ruqia Bibi; Jaiya Benjamin; Shannon R. Strader; Angela M. Taylor; Vineeta T. Swaroop; Henry G. Chambers; Richard L. Lieber. Cerebral Palsy May Lead To Muscle Contractures By Differential DNA Methylation Of Muscle Stem Cells And Resulting Transcriptional Dysregulation.