



## Michael Geary, MD

### Bio

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I enjoy long-distance running, reading, and spending time with my wife and 8 kids. I have a special interest in spasticity of the upper extremity and work alongside Dr. Lewis and Dr. Aversano at OrthoCarolina's dedicated [spasticity clinic](#). I am among the many transplants from Upstate New York who happily call the greater Charlotte area home.

**P: 704.786.5122**

### LOCATIONS

- Concord
- Spasticity Clinic
- University Urgent Care

### CLINICAL SPECIALTIES

- Elbow
- Hand
- Trauma
- Wrist

### Education

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- **Fellowship** – *OrthoCarolina Hand & Upper Extremity*
- **Residency** – **Atrium Health** - Carolinas Medical Center/OrthoCarolina
  - *Orthopedic Surgery*
- **University of Rochester School of Medicine and Dentistry**
- **Williams College** - *Bachelor of Arts in Chemistry*

### Awards

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*August 2020:* AOA Resident Leadership Forum participant.

*September 2019:* Daniel C. Riordan Award. Awarded by the Daniel C. Riordan Hand Society to attend the 2019 ASSH Annual Meeting in Las Vegas, NV.

*November 2018:* Resident Scholarship. IPOS 2018 course. Orlando, FL.

*November 2018:* Resident Scholarship. AAHKS Annual Meeting, resident arthroplasty course. Dallas, TX.

*October 2018:* "Best Paper" in Total Joints/Bundling session. Why do Revision Total Knee Arthroplasties Fail? A Decade Later. – North Carolina Orthopaedic Association Annual Meeting, Kiawah Island, South Carolina.

*May 2016:* The Dean's Award, University of Rochester Commencement – "Presented to a fourth-year medical student in recognition of excellent academic achievement and outstanding accomplishments in research."

*February 2016:* Inducted to Alpha Omega Alpha (AOA) Honor Medical Society.

*July 2014 – June 2015:* TL1 Clinical Research Training Award from the National Institutes of Health.

*March 2015:* New Investigator Recognition Award (NIRA) from the Orthopaedic Research Society (ORS). One of ten overall winners selected at the 2015 ORS annual meeting in Las Vegas, NV.

*June 2011:* Magna cum laude distinction from Williams College.

## Research

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**Geary MB**, Gaston RG, Loeffler BJ. Surgical and Technological Advances in the Management of Upper Extremity Amputees. *Bone Joint J.* 2021 Mar; 103-B(3):430-439. doi: 10.1302/0301-620X.103B3.BJJ-2020.1184.R1. PMID 33641410

Barry J, **Geary M**, Riesgo A, Odum S, Fehring T, Springer B. Irrigation and Debridement with Chronic Antibiotic Suppression Is as Effective as 2-Stage Exchange in Revision Total Knee Arthroplasty with Extensive Instrumentation. *J Bone Joint Surg Am.* 2021 Jan 6; 103(1):53-63. doi: 10.2106/JBJS.20.00240. PMID 33079900

**Geary MB**, Li K, Chadderton RC, Gaston RG. Complications Following Transosseous Repair of Zone 1 Flexor Tendon Injuries. *Journal of Hand Surgery.* 2020 Jul 25. doi: 10.1016/j.jhsa.2020.05.025. PMID: 32723570

**Geary MB**, Macknet D, Ransone M, Odum S, Springer BD. Why do Revision Total Knee Arthroplasties Fail? A Single-Center Review of 1,632 Revision Total Knees Comparing Historic and Modern Cohorts. *J Arthroplasty.* 2020 May 28. doi: 10.1016/j.arth.2020.05.050. PMID: 32561262

Hartzler MA, Li K, **Geary MB**, Odum SM, Springer BD. Complications in the Treatment of Periprosthetic Joint Infection. *Bone Joint J.* 2020 Jun;102-B(6\_Supple\_A):145-150. doi: 10.1302/0301-620X.102B6.BJJ-2019-1582.R1. PMID: 32475287

Martin JR, **Geary MB**, Ransone M, Macknet D, Fehring K, Fehring T. Is a Full Component Revision Necessary for Isolated Tibial Loosening? *Bone Joint J.* 2020 Jun;102-B(6\_Supple\_A):123-128. doi: 10.1302/0301-620X.102B6.BJJ-2019-1401.R1. PMID: 32475265

Daley D, **Geary M**, Gaston RG. Thumb Metacarpophalangeal Ulnar and Radial Collateral Ligament Injuries. *Clin Sports Med.* 2020 Apr; 39(2): 443-455. doi10.1016/j.csm.2019.12.003. PMID: 32115093

Akesson P, Chen AF, Deirmengian GK, **Geary M**, Quevedo MS, Sousa R, Springer BD, Wang Q. General Assembly, Prevention, Risk Mitigation, Local Factors: Proceedings of International Consensus on Orthopedic Infections. *J Arthroplasty.* 2018 Oct 22. doi: 10.1016/j.arth.2018.09.053. PMID 30360980.

**Geary MB**, Li H, Zingman A, Ketz J, Zuscik M, Bentley KL, Noble M, Elfar JC. Erythropoietin accelerates functional recovery after moderate sciatic nerve crush injury. *Muscle Nerve.* 2017 Jul; 56(1):143-151. doi: 10.1002/mus.25459. PMID 28168703.

Ackerman JE, **Geary MB**, Orner CA, Bawany F, Loiselle AE. Obesity/Type II diabetes alters macrophage polarization resulting in a fibrotic tendon healing response. *PLoS One.* 2017 July 7;12(7):e0181127. PMID 28686669.

Zingman A, Li Hiayan, Sundem L, DeHority B, **Geary M**, Fussel T, Mooney R, Zuscik M, Elfar J. Shoulder arthritis secondary to rotator cuff tear: a reproducible murine model and histopathologic scoring system. *J Orthop Res.* 2016 Aug 8. [Epub ahead of print] doi: 10.1002/jor.23383. PMID: 27500994.

Orner CA, **Geary MB**, Hammert WC, O'Keefe RJ, Loiselle AE. Low-Dose and Short-Duration Matrix Metalloproteinase 9 Inhibition Does Not Affect Adhesion Formation During Murine Flexor Tendon Healing. *Plast Reconstr Surg.* 2016 Mar; 137(3):545e-53e. doi: 10.1097/01.prs.0000475823.01907.53.

PMID: 26910699.

Bessette MC, Kenney RJ, **Geary MB**, Cook C, Giordano BD. A Novel Iliotibial Band and Gluteus Maximus Tenodesis for the Treatment of External Coxa Saltans in a Patient with Ehlers-Danlos Syndrome. *J Hip Preserv Surg.* 2015 October; 2(3):316-317. doi:10.1093/jhps/hnv050. PMID: 27011855.

**Geary MB**, Orner CA, Bawany F, Awad H, Hammert WC, O'Keefe RJ, Loiselle AE. Systemic EP4 Inhibition Increases Adhesion Formation in a Murine Model of Flexor Tendon Repair. PLoS ONE. 2015 August. 10(8):e0136351. doi:10.1371/journal.pone.0136351. PMID: 26312751.

**Geary MB**, Elfar JC. Rotator Cuff Tears in the Elderly Patients. Geriatr Orthop Surg Rehabil. 2015 September; 6(3):220-224. doi: 10.1177/2151458515583895. PMID: 26328240

Jain R, Garg P, Motukupally SR, **Geary MB**. Clinico-Microbiological Review of Non-Contact-Lens-Associated Acanthamoeba Keratitis. Semin Ophthalmol. 2015 July; 30(4):281-288. doi:10.3109/08820538.2013.849270. PMID: 24251436.

Loiselle AE, Yukata K, **Geary MB**, Kondabolu SK, Shi S, Jonason J, Awad HA, O'Keefe RJ. Development of

Antisense Oligonucleotide (ASO) Technology Against Tgf- $\beta$  Signaling to Prevent Scarring During Flexor Tendon Repair. J Orthop Res. 2015 May; 33(6):859-866. doi:10.1002/jor.22890. PMID: 25761254.

**Geary MB**, English C, Yassen Z, Stanbury S, Awad H, Elfar JC. Flexor Digitorum Superficialis Repair Outside the A2 Pulley After Zone II Laceration: Gliding and Bowstringing. J Hand Surg Am. 2015 April; 40(4):653-659. doi: 10.1016/j.jhsa.2014.12.045. PMID: 25721237.