



## Ryan M. Garcia, MD

### Bio

- Board Certified by the American Board of Orthopedic Surgery
- Member of the American Medical Association (AMA)
- Member of Alpha Omega Alpha (AOA)
- Member of the American Association of Orthopaedic Surgeons (AAOS)
- Member of North Carolina Medical Association
- Candidate Member of the American Association of Hand Surgery (AAHS)
- Candidate Member of the American Society for Surgery of the Hand (ASSH)

**P: 704.323.2426**

#### Patient Rating:

4.7 out of 5 Stars

### LOCATIONS

- Hand Center
- Indian Land

### CLINICAL SPECIALTIES

- Elbow
- Hand
- Trauma
- Wrist

### Education

- **University of California, Los Angeles** - *Bachelor of Science*
- **The George Washington University** - *Doctor of Medicine*
- **University Hospitals Case Medical Center, Case Western Reserve** - *Internship*
- **University Hospitals Case Medical Center, Case Western Reserve** - *Residency, Orthopedic Surgery*
- **Duke University Medical Center** - *Residency, Plastic & Reconstructive Surgery*
- **Duke University Medical Center** - *Fellowship, Hand, Upper Extremity, Microvascular Surgery*

### Practice

- Board Certified by the American Board of Plastic and Reconstructive Surgery
- Specializes in Hand & Upper Extremity Surgery
- Plastic & Reconstructive Surgery
- Microsurgical reconstruction including free tissue transfers
- Clinical interests are traumatic, degenerative, vascular and neuromuscular disorders

- Minimally invasive techniques including arthroscopic procedures & endoscopic carpal tunnel surgery
- Cosmetic rejuvenation for the aging hand

## Awards

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- **Named a 2023 Top Doctor by Charlotte Magazine**
- **2022 [North Carolina's Top Doctors](#)**, Charlotte Region, SouthPark Magazine
- Named a 2021 Top Doctor by Charlotte Magazine
- Named a 2019 **Top Doctor** by Charlotte Magazine
- Named a 2018 **Top Doctor** by Charlotte Magazine
- Alpha Omega Alpha (AOA) Honor Society
- Julius Nevaizer Award of Distinction in Orthopaedic Surgery

## Research

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### Published papers:

- Watkins R 4<sup>th</sup>, Watkins R 3<sup>rd</sup>, Williams L, Ahlbrand S, **Garcia R**, Karamanian A, Sharp L, Vo C, Hedman T. Stability Provided by the Sternum and Rib Cage in the Thoracic Spine. *Spine*. 2005 Jun; 30(11):1283-6.
- Ponsky TA, Brody F, Giordano J, **Garcia RM**, Kardon D, Schwartz A. Brachial Artery Occlusion Secondary to Hypereosinophilic Syndrome *The Journal of Vascular Surgery*. 2005 Oct; 42(4):796-9.
- **Garcia RM**, Miller J, Ponsky TA. Parastomal Herniation of the Gallbladder. *Hernia: The World Journal of Hernia and Abdominal Wall Surgery*. 2005 Dec; 9(4):397-9.
- **Garcia RM**, Ponsky TA, Brody F, Long J. Bilateral Luxatio Erecta Complicated by Venous Thrombosis. *The Journal of Trauma*. 2006 May; 60(5):1132-4.
- **Garcia RM**, Messerschmitt PJ, Furey CG, Bohlman HH, Cassinelli EH. Weight Loss in Overweight and Obese Patients following Successful Lumbar Decompression. *The Journal of Bone and Joint Surgery* 2008 April; 90(4):742-747
- Cassinelli EH, Dean CL, **Garcia RM**, Furey CG, Bohlman HH. Ketorolac Use for Postoperative Pain Management following Lumbar Decompression Surgery: A Prospective, Randomized, Double-Blinded, Placebo-Controlled Trial. *Spine* 2008 May; 33(12):1313-1317
- Messerschmitt PJ, Rettew AN, Brookover RE, **Garcia RM**, Getty PJ, Greenfield EM. Specific Tyrosine Kinases Regulate Human Osteosarcoma

Cells in Vitro. *Clinical Orthopaedics and Related Research*. 2008 Sept; 466(9):2168-75.

- **Garcia RM**, Kraay MJ, Goldberg VM. Retention of Superficially Damaged Femoral Components Following Metal-Backed Patella Component Failure. *The Journal of Arthroplasty*. 2008 Sept; 23(6):850-58.
- **Garcia RM**, Kraay MJ, Goldberg VM. Isolated All-Polyethylene Patellar Revisions for Metal-Backed Patellar Failure. *Clinical Orthopaedics and Related Research*. 2008 Nov; 466(11):2784-9.
- **Garcia RM**, Kraay MJ, Conroy-Smith PA, Goldberg VM. Management of the Deficient Patella in Revision Total Knee Arthroplasty. *Clinical Orthopaedics and Related Research*. 2008 Nov; 466(11):2790-7.
- Lee MJ, **Garcia RM**, Cassinelli EH, Furey C, Riew KD. Tandem Stenosis: An Anatomic Study in Osseous Morphology. *The Spine Journal*. 2008 Nov-Dec;8(6):1003-6.
- **Garcia RM**, Goldberg VM. Update on Contemporary Lower Extremity Total Joint Arthroplasty. *Minerva Ortopedica E Traumatologica*. 2008 Dec;59:355-63.
- **Garcia RM**, Kraay MJ, Messerschmitt PJ, Goldberg VM, Rimnac CM. Analysis of Retrieved UHMWPE Tibial Components from Rotating Platform Total Knee Replacements. *The Journal of Arthroplasty*. 2009 Jan; 24(1):131-8
- **Garcia RM**, Messerschmitt PJ, Ahn NU. An Evaluation of Information on the Internet of a New Device: The Artificial Disc Replacement. *Journal of Spinal Techniques and Disorders*. 2009 Feb; 22(1):52-7.
- Messerschmitt PJ, **Garcia RM**, Abdul-Karim FW, Wiersma SR, Greenfield EM, Getty PJ. Osteosarcoma. *Journal of the American Academy of Orthopaedic Surgeons (JAAOS)*. 2009 Aug; 17(8):515-27.
- **Garcia RM**, Hardy BT, Kraay MJ, Goldberg VM. Revision Total Knee Arthroplasty in the Rheumatoid Arthritis Patient. *Clinical Orthopaedics and Related Research*. 2010 Jan; 468(1):82-9.
- **Garcia RM**, Kraay MJ, Goldberg VM. Isolated Resurfacing of the Previously Unresurfaced Patella in Total Knee Arthroplasty. *The Journal of Arthroplasty*. 2010 Aug; 25(5):754-8
- **Garcia RM**, Qureshi SA, Cassinelli EH, Biro C, Furey CG, Bohlman HH. Detection of Postoperative Neurologic Deficits Using Somatosensory Evoked Potentials Alone During Posterior Cervical Laminoplasty. Submitted to *The Spine Journal*. *The Spine Journal*. 2010 Oct; 10(10):890-5.

- **Garcia RM**, Messerschmitt PJ, Xin W, Lacey SH. Aseptic Flexor Tendon Tenosynovitis Caused by a Plant Thorn: A Case Report and Review of the Literature. *Current Orthopaedic Practice*. 2011 Sept/Oct; 22(5):461-463
- Messerschmitt PJ, **Garcia RM**, Thompson GH, Furey CG. Osteosarcoma of the Spine Causing Vascular Compression and Pulmonary Emboli at Presentation: A Case Report. *Current Orthopaedic Practice*. 2011 Nov/Dec; 22(6):573-576.
- Faber C, **Garcia RM**, Davis J, Guyuron B. A Socio-Economic Analysis of Surgical
- Treatment of Migraine Headaches. *Plastic and Reconstructive Surgery*. 2012 April; 129(4):871-877.
- Qureshi SA, Koehler SM, Lin JD, Bird J, **Garcia RM**, Hecht AC. An Evaluation of Information on the Internet of a New Device: The Cervical Artificial Disc Replacement. *Spine*. 2012 May; 37(10):881-3.
- **Garcia RM**, Belding JA, Bohlman HH. Lumbar Decompression and Fusion in a Centenarian. *Orthopedics*. 2012 July; 35(7)e:1141-4.
- Wera GD, **Garcia RM**, Goldberg VM. Reducing Perioperative Bleeding with Antifibrinolytics. An update on agents used in orthopaedic surgery. *AAOS Now*. 2013 Feb:41
- **Garcia RM**, Cassinelli EH, Messerschmitt PJ, Furey CG, Bohlman HH. A Multimodal Approach to Postoperative Pain Management Following Lumbar Decompression Surgery: A Prospective, Randomized Trial. *Spinal Disorders and Techniques*. 2013 Aug; 26(6):291-7.
- Erdmann D, **Garcia RM**, Blueschke G, Brigman BE, Levin LS. Vascularized Fibula based Physeal Transfer for Pediatric Proximal Humerus Reconstruction. *Plastic and Reconstructive Surgery*. 2013 Aug;132(2):281e-7e.
- **Garcia RM**, Ruch DS. Scaphoid Fractures in the Athlete: Open and Percutaneous Methods of Fixation. *Sports Medicine and Arthroscopy Review*. 2014 Mar;22(1):22-8.
- Levinson H, **Garcia RM**, Miller K, Levin LS. Major Hand Replantation after an Extended Search for the Missing Part: A Case Report. *Current Orthopaedic Practice*. 2014 May/Jun;25(3):302-4
- Cho EH, **Garcia RM**, Penn, I, Thomas S, Levin LS, Hollenbeck ST. An Algorithmic Approach for Managing Orthopaedic Surgical Wounds for the Foot and Ankle. *Clinical Orthopedic and Related Research*. 2014 Jun;472(6):1921-9.
- **Garcia RM**, Leversedge F, Aldridge M, Richard M, Ruch DS. Scaphoid Nonunions Treated with 2 Headless, Compression Screws and Bone Grafting. *Journal of Hand Surgery*. 2014 Jul;39(7):1301-7.

- **Garcia RM**, Cassinelli EH, Hultman CS, Erdmann D. Patient Perception of Physician
- Reimbursement in Plastic Surgery. *Annals of Plastic Surgery*. 2014 Jul;73(1):74-6.
- Louer C, **Garcia RM**, Earle A, Hollenbeck ST, Erdmann D, Levin LS. Free Flap Reconstruction of the Knee: An Outcome Study of 34 Cases. *Annals of Plastic Surgery*. 2015 Jan;74(1):57-63
- Hughes DB, Perez E **Garcia RM**, Aragon OR, Erdmann D. Sexual and Overall Quality of Life Improvements after Surgical Correction of “Buried Penis.” *Annals of Plastic Surgery*. 2015 Epub
- Cho EH, **Garcia RM**, Pien I, Kuchibhatla M, Levinson H, Erdmann D, Levin LS, Hollenbeck ST. Vascular Considerations in Foot and Ankle Free Tissue Transfer: Analysis of 231 Free Flaps. *Microsurgery*. 2015 Epub
- **Garcia RM**, Hadlock TA, Klebuc MJ, Simpson RL, Zenn MR, Marcus JR. Contemporary Solutions for the Treatment of Facial Nerve Paralysis. *Plastic and Reconstructive Surgery*. 2015 Jun;135(6): 1025e1046e.
- Soltanian H, Hollenbeck ST, **Garcia RM**. Current Concepts of Lower Extremity Reconstruction. *Plastic and Reconstructive Surgery*. In Press
- **Garcia RM**, Gosain A, Zenn MR, Marcus JR. Early Postoperative Complications following Gracilis Free Muscle Transfer for Facial Reanimation: A Systematic Review and Pooled Data Analysis. *Journal of Reconstructive Microsurgery*. In Press
- Cho EH, **Garcia RM**, Blau J, Levinson H, Erdmann D, Levin LS, Hollenbeck ST. Microvascular Anastomoses using End-to-End versus End-to-Side Technique in Lower Extremity Free Tissue Transfer. *J Reconstructive Microsurgery*. In Press

#### book chapters

- **Garcia RM**, Guyuron B. Chin : Augmentation. *Aesthetic Head and Neck: An Operative Atlas*
- **Garcia RM**, Ruch DS, Hultman CS. Hand Surgery. *50 Articles Every Plastic Surgeon Should Know*

#### peer-reviewed publications

- **Garcia RM**, Ruch DS: Free tissue transfer. *Hand Clinics* August 2016

## Team

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- Clinical – Denise, CMA
- Surgery Scheduler – Barbara
- Administrative Assistant – Kim Haynes