



## Mark A. Katz, MD

### Bio

Dr. Mark A. Katz specializes in the treatment of hand and upper extremity disorders, including worker compensation injuries, carpal tunnel syndrome, fractures, microsurgery for hand, wrist and forearm trauma, nerve compression syndromes, arthritis, tendon lacerations or ruptures, ligament injuries, nerve and artery lacerations, sports injuries, Dupuytren's contracture, and complex fractures and dislocations of the upper extremity.

**P: 828-322-5172**

#### Patient Rating:

4.6 out of 5 Stars

### LOCATIONS

- Boone
- Hickory

### CLINICAL SPECIALTIES

- Elbow
- Hand
- Specialties
- Wrist

Dr. Katz has been practicing as a specialist in Orthopaedic Hand, Wrist, Elbow, and Microvascular Surgery since 2001. Prior to joining OrthoCarolina, Dr. Katz was in San Antonio, Texas for 16 years. He previously had an academic appointment as a Clinical Assistant Professor at the University of Texas Health Science Center at San Antonio and was involved in the teaching and training of Hand Surgery Fellows, physicians who seek an additional year of specialty training. He had lectured yearly to the Fellows and Residents on topics of the hand and wrist including extensor tendon injuries, flexor tendon injuries, and distal radius fractures.

Dr. Katz pursued his undergraduate education in New England at Bowdoin College in Brunswick, Maine where he graduated Magna Cum Laude and excelled in varsity football as an Academic All-American linebacker. He received numerous football honors including scholar-athlete awards from the Gridiron Club of Greater Boston as a Nils V. "Swede" recipient in 1990, the Maine Sports Hall of Fame in 1991, and a National Football Foundation National Scholar-Athlete recipient in 1990.

Dr. Katz received his medical school education in Philadelphia at the University of Pennsylvania. In 1995, he remained at the Hospital of the University of Pennsylvania for his internship and Orthopaedic Surgery residency. At the completion of his Orthopaedic residency training in 2000, Dr. Katz received the F. William Bora, Jr., M.D. Award given to the resident who exhibits Excellence in Upper Extremity Surgery.

Dr. Katz continued his upper extremity training with a fellowship in Hand, Upper Extremity, and Microvascular Surgery at Duke University Medical Center under the leadership of James R. Urbaniak, M.D. Considered an expert in the treatment of complex distal radius fractures of the wrist, Dr. Katz has previously consulted for orthopaedic device companies on the design and development of implant products used for fixation of distal radius wrist fractures. He also has participated in teaching Orthopaedic Surgeons at instructional workshops for techniques in fixation of distal radius fractures.

Since 2012, Dr. Katz has been performing the Tenex procedure, a minimally invasive surgery for tennis and golfer's elbow (epicondylitis) and other tendinopathies, which has been greatly beneficial for patients by allowing for much quicker recoveries and avoidance of more significant open surgical procedures. Dr. Katz continues to offer the Tenex procedure with OrthoCarolina.

Through additional extensive fellowship training in the microvascular technique of free vascularized fibular grafting to the hip, pioneered by James R. Urbaniak, M.D. at Duke University Medical Center, Dr. Katz has additional expertise and interest in the treatment of hip avascular necrosis (AVN), better known as osteonecrosis. He has experience in more than 100 cases of free vascularized fibular grafting for hip AVN.

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Dr. Katz has enjoyed being involved in sports over the years including softball, baseball, and football together with his children and wife, a former fastpitch softball pitcher for the University of North Carolina Tarheels. His daughter currently attends UNC and is a member of the Tarheels' softball team. His family also enjoys snowboarding and skiing.

In addition to sports, Dr. Katz's children had been active members of the FFA and their high school agriculture program in Texas. The family absolutely enjoyed raising show pigs and competing in livestock shows including San Antonio and Houston. His son is proudly pursuing a career in agriculture and currently attends North Carolina State University.

Dr. Katz is also a Harley Davidson enthusiast and still owns his 1995 Fat Boy. Over the years, his motorcycle travels around the country with his wife including New England, Eastern Pennsylvania, the Grand Canyon, Bryce Canyon, Napa Valley, and Texas Hill Country have provided some of the most memorable adventures!

## Education

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- **Bowdoin College** - *B.A. in Biochemistry and Economics, Physics Minor*
- **University of Pennsylvania School of Medicine** - *Doctor of Medicine*
- **Hospital of the University of Pennsylvania** - *Orthopedic Residency*
- **Duke University Medical Center** - *Fellowship in Hand, Upper Extremity & Microvascular Surgery*

## Practice

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Fellowship Trained in Hand, Upper Extremity & Microvascular Surgery

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- Fellow American Academy of Orthopaedic Surgeons
- Member of The American Society for Surgery of the Hand-Member
- Member of The Piedmont Orthopaedic Society
- Member of The Duke Hand Club
- Member of The National Osteonecrosis Foundation

## Research

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### Abstracts

#### *Scientific Presentations:*

- **Katz, M.A.**, Beredjiklian, P.K., Vresilovic, E. J., Tahernia, A.D., Gabriel, J.P., Chan P.S.H., Heppenstall, R.B.: "CT Scanning of Cervical Spine Fratures: Does it Influence Treatment?" Smith & Nephew 15th Annual Orthopaedic Residents' Conference. Memphis, TN, August 1997.
- **Katz, M.A.**, Beredjiklian, P.K., Vresilovic, E. J., Tahernia, A.D., Gabriel, J.P., Chan P.S.H., Heppenstall, R.B.: "CT Scanning of Cervical Spine Fratures: Does it Influence Treatment?" Pennsylvania Orthopaedic Society, Fall Scientific Meeting. Wilmington, DE, November 1997.
- **Katz, M.A.**, Beredjiklian, P.K., Bozentka, D.J., Chang, B., Nance, M.L.: "Gunshot Wounds to the Upper Extremity in Children." Orthopaedic Transactions 1997. Eastern Orthopaedic Association, 28th Annual Meeting. Scottsdale, AZ, October 1997.
- **Katz, M.A.**, Beck, T.D., Silber, J.S., Lotke, P.A.: "Determining Femoral Rotational Alignment in Total Knee Arthroplasty: Reliability of Techniques." Pennsylvania Orthopaedic Society, Fall Scientific Meeting. Hershey, PA, November 1998.

- Tan, V., Seldes, R.M., **Katz, M.A.**, Freedhand, A., Fitzgerald, R.H.: “Contribution of Acetabular Labrum to Articulating Surface Area and Femoral Head Coverage in Adult Hip Joints: A Study in Cadavera.” Pennsylvania Orthopaedic Society, Fall Scientific Meeting. Hershey, PA, November 1998.
- Seldes, R.M., Tan, V., Hunt, J., **Katz, M.A.**, Winiarsky, R., Fitzgerald, R.H.: “The Gross, Histologic, and Microvascular Anatomy of the Adult Acetabular Labrum and Labral Tears.” Orthopaedic Transactions 1999. American Academy of Orthopaedic Surgeons, 66th Annual Meeting. Anaheim, CA, February 1999.
- **Katz, M.A.**, Beredjiklian P.K., Bozentka, D.J., Steinberg, D.R.: “The Impact of CT Scanning Intra-articular Distal Radius Fractures.” Philadelphia Hand Society, Residents’, Fellows’, & Therapists’ Scientific Paper Competition. Philadelphia, PA, June 1999.
- **Katz, M.A.**, Beredjiklian, P.K., Bozentka, D.J., Steinberg, D.R.: “CT Scanning of Intra-articular Distal Radius Fractures: Does it Influence Treatment?” Orthopaedic Transactions 2000. American Academy of Orthopaedic Surgeons, 67th Annual Meeting. Orlando, FL, March 2000.
- **Katz, M.A.**, Dailiana, Z.H., Bowers, J.R., Urbaniak, J.R.: “Vascular Endothelial Growth Factor (VEGF) and Free Vascularized Bone Grafting for the Treatment of Osteonecrosis of the Femoral Head: A Study of Canines” Proposal presentation for National Orthopaedic Surgery Fellows Foundation (NOSFF). Jacksonville, FL, November 2000.

#### **Scientific Posters/Exhibits:**

- **Katz, M.A.**, Beredjiklian, P.K., Vresilovic, E. J., Tahernia, A.D., Gabriel, J.P., Chan P.S.H., Heppenstall, R.B.: “CT Scanning of Cervical Spine Fratures: Does it Influence Treatment?” Orthopaedic Transactions 1998. American Academy of Orthopaedic Surgeons, 65th Annual Meeting. New Orleans, LA, March 1998.
- **Katz, M.A.**, Beredjiklian, P.K., Bozentka, D.J., Chang, B., Nance, M.L.: “Gunshot Wounds to the Upper Extremity in Children.” Orthopaedic Transactions 1998. American Academy of Orthopaedic Surgeons, 65th Annual Meeting. New Orleans, LA, March 1998.
- **Katz, M.A.**, Naranja, R.J., Silber, J.S., Duda, J.R., Heppenstall, R.B.: “Chronic Post-Traumatic Hematoma: An Unpredictable Problem.” Orthopaedic Transactions 1998. Eastern Orthopaedic Association, 29th Annual Meeting. Dorado, Puerto Rico, October 1998.

- **Katz, M.A.**, Pepe, M.D., Tahernia, A.D., Vresilovic, E.J.: "Traumatic Spondylopelvic Dissociation: A Rare and Complex Injury." Orthopaedic Transactions 1998. Eastern Orthopaedic Association, 29th Annual Meeting. Dorado, Puerto Rico, October 1998.
- Silber, J.S., Flynn, J.M., **Katz, M.A.**, Ganley, T.J., Koffler, K., Drummond, D.S.: "The Role of CT Examination in the Management of Pediatric Pelvic Fractures." Orthopaedic Transactions 1999. American Academy of Orthopaedic Surgeons, 66th Annual Meeting. Anaheim, CA, February 1999.
- **Katz, M.A.**, Beredjikian, P.K., Bozentka, D.J., Steinberg, D.R.: "CT Scanning of Intra-articular Distal Radius Fractures: Does it Influence Treatment?" Orthopaedic Transactions 2000. American Academy of Orthopaedic Surgeons, 67th Annual Meeting. Orlando, FL, March 2000.
- Rozental, T.D., **Katz, M.A.**, Bozentka, D.J., Steinberg, D.R., Beredjikian, P.K.: "Evaluation of the DRUJ with Computed Tomography Following Intraarticular Distal Radius Fracture." American Society for Surgery of the Hand, 2000 Adrian E. Flatt Residents and Fellows Conference in Hand Surgery. Seattle, WA, October 2000.
- Yeh, G.L., Beredjikian, P.K., Bozentka, D.J., **Katz, M.A.**, Steinberg, D.R.: "Effects of Forearm Rotation on the Radiographic Evaluation of Ulnar Variance." Orthopaedic Transactions 2001. American Academy of Orthopaedic Surgeons, 68th Annual Meeting. San Francisco, CA, February-March 2001.

#### Peer-Reviewed Publications:

- **Katz, M.A.**, Dormans, J.P., Antonia, U.K.: Aneurysmal Bone Cyst Involving the Distal Phalanx of a Child. Orthopedics, 20(5): 463-466, 1997.
- **Katz, M.A.**, Davidson, R.S., Chan, P.S.H., Sullivan, R.J.: Plain Radiographic Evaluation of the Pediatric Foot and Its Deformities. University of Pennsylvania Orthopaedic Journal, 10: 30-39, 1997.
- **Katz, M.A.**, Beredjikian, P.K., Vresilovic, E.J., Tahernia, A.D., Gabriel, J.P., Chan, P.S.H., Heppenstall, R.B.: Computed Tomographic Scanning of Cervical Spine Fractures: Does it Influence Treatment? Journal of Orthopaedic Trauma, 13(5): 338-343, 1999.
- **Katz, M.A.**, Beredjikian, P.K., Wirganowicz, P.: Nodular Fasciitis of the Hand: A Case Report. Clinical Orthopaedics and Related Research, 382: 108-111, 2001.
- Seldes, R.M., Tan, V., Hunt, J., Katz, M.A., Winiarsky, R., Fitzgerald, R.H.: Anatomy, Histologic Features, and Vascularity of the Adult Acetabulum Labrum. Clinical Orthopaedics and Related Research, 382: 232-240, 2001.

- Silber, J.S., Flynn, J.M., **Katz, M.A.**, Ganley, T.J., Koffler, K., Drummond, D.S.: The Role of Computed Tomography in the Classification and Management of Pediatric Pelvis Fractures. *Journal of Pediatric Orthopaedics*, 21(2): 148-151, 2001.
- **Katz, M.A.**, Beck, T.D., Silber, J.S., Seldes, R.M., Lotke, P.A.: Determining Femoral Rotational Alignment in Total Knee Arthroplasty: Reliability of Techniques. *Journal of Arthroplasty*, 16(3): 301-305, 2001.
- Rozental, T.D., Bozentka, D.J., **Katz, M.A.**, Steinberg, D.R., Beredjikian, P.K.: Evaluation of the Sigmoid Notch with Computed Tomography Following Intraarticular Distal Radius Fracture. *Journal of Hand Surgery*, 26A: 244-251, 2001.
- **Katz, M.A.**, Beredjikian P.K., Bozentka, D.J., Steinberg, D.R.: Computed Tomography Scanning of Intra-articular Distal Radius Fractures: Does it Influence Treatment? *Journal of Hand Surgery*, 26A: 415-421, 2001.
- Beredjikian, P.K., Adler, L, Wong, K., **Katz, M.A.**, Yeh, G., Garino, J.P.: Prevertebral Abscess with Extension into the Hip Joint: A Case Report. *American Journal of Orthopedics*, 30(7):572-574, 2001.
- Yeh, G.L., Beredjikian, P.K., **Katz, M.A.**, Steinberg, D.R., Bozentka, D.J.: Effects of Forearm Rotation on the Clinical Evaluation of Ulnar Variance. *Journal of Hand Surgery*, 26A: 1042-1046, 2001.
- Tan, V., Seldes, R.M., **Katz, M.A.**, Freedhand, A.M., Klimkiewicz, J.J., Fitzgerald, R.H.: Contribution of Acetabular Labrum to Articulating Surface Area and Femoral Head Coverage in Adult Hip Joints: An Anatomic Study in Cadavera. *American Journal of Orthopedics*, 30(11): 809-812, 2001.
- Beredjikian, P.K., Hotchkiss, R.N., Athanasian, E.A., Ramsey, M.L., **Katz, M.A.**: Recalcitrant Nonunion of the Distal Humerus: Treatment with Free Vascularized Bone Grafting. *Clinical Orthopaedics and Related Research*, 435: 134-139, 2005.
- Henry, S.L., **Katz, M.A.**, Green, D.P.: Type IV FDP avulsion: Lessons Learned Clinically and Through review of the Literature. *Hand*, 2009.

#### Chapters & Reviews:

- Sullivan, R.J., **Katz, M.A.**, Chan, P.S.H., Davidson, R.S.: Review of the Standard Radiographs Used to Evaluate the Pediatric Foot. *Foot and Ankle Clinics*, 3(4): 557-572, Dec. 1998.
- **Katz, M.A.**, Moore, R.S.: Flexor Tendon Rupture and Reconstruction of the Rheumatoid Hand. *Seminars in Arthroplasty*, 11(2): 89-97, 2000.
- **Katz, M.A.**, Urbaniak, J.R.: Free Vascularized Fibular Grafting of the Femoral Head for the Treatment of Osteonecrosis. *Techniques in*

Orthopaedics, 16(1): 44-60, 2001.

- **Katz, M.A.**, Levin, L.S., Goldner, R.D., Urbaniak, J.R.: "Microvascular Hand Surgery" Review of Hand Surgery, Beredjiklian and Bozentka (Eds.), Saunders, Philadelphia, pp 156-170, 2004.
- Chang, B., **Katz M.**: "Dorsal Metacarpophalangeal Dislocations" Mastercases in Hand and Wrist Surgery, Plancher (Ed.), Thieme Medical Publishers, New York, pp 300-304, 2004.
- Chang, B., **Katz M.**: "Volar Metacarpophalangeal Dislocations" Mastercases in Hand and Wrist Surgery, Plancher (Ed.), Thieme Medical Publishers, New York, pp 305-309, 2004.

#### **Other Media:**

- **Katz. M.A.:** "There's Nothing Hip About Hip Pain, Avascular Necrosis Strikes Young Adults" Mercer Business, Health Matters, pp 30-31, March 2004.
- 1989 Instruction & protocol development for microscale organic laboratory techniques; "Microscale Organic Chemistry 1989 Summer Institute;" Dana Mayo, Ph.D., Department of Chemistry, Bowdoin College
- 1990 "Statistical experimental design for calculation of theoretical plates in spinning band distillation by utilization of gas chromatographic analysis;" Dana Mayo, Ph.D., Department of Chemistry, Bowdoin College
- 1997 "Techniques of characterizing voltage-sensitive sodium channels using channel mutations & polymerase chain reaction." NIH Grant for Summer Research Fellowship, Roland Kallen, MD, Ph.D., Department of Biochemistry, University of Pennsylvania School of Medicine
- 2000 "Vascular Endothelial Growth Factor (VEGF) and Free Vascularized Bone Grafting for the Treatment of Osteonecrosis of the Femoral Head: A Study of Canines." NOSFF Grant, Research in progress; James R. Urbaniak, MD, Division of Orthopaedic Surgery, Duke University Medical Center