# Jennette L. Boakes, M.D., M.S.

**Clinical Interests**

Dr. Boakes' clinical interests include treatment of hip dysplasia in children and adolescents, congenital and acquired limb deformity, leg length discrepancy, congenital disorders of the foot (including clubfoot), and fracture care. Dr. Boakes' research interests include muscle physiology and adaptation; muscle structure/function relationships; spastic muscle; muscle adaptation to leg lengthening; in vivo sarcomere length measurement; gait analysis, and physical fitness.

Philosophy of Care

With my expertise and interest in muscle function and physical fitness I encourage patients to participate in their own healing with exercise, muscle retraining and therapy when needed. I frequently advise non-operative treatment before recommending surgery. I try to incorporate my patients' needs as well as their parents' goals in developing a treatment plan. I strive for excellence in surgery, using safe and proven techniques that I know will improve patients' function. I also participate in 'cutting-edge' research studies of new techniques which will benefit my patients.

**Title**

Professor

**Specialty**

Orthopaedic Surgery - Pediatric Orthopaedic Surgery

**Department**

Orthopaedic Surgery

**Division**

Pediatric Orthopaedics

**Center/Program Affiliation**

UC Davis Children's Hospital

**Address/Phone**

Shriners Hospital for Children, 2425 Stockton Blvd. Sacramento, CA 95817

**Phone:** 800-2-UCDAVIS (800-282-3284)

**Additional Phone**

Physician Referrals: 800-4-UCDAVIS (800-482-3284)

**Education**

M.D., UC San Diego, La Jolla, California, 1986

M.S., UC Davis, Davis, California, 1982

B.S., UCLA, Los Angeles, California, 1981

**Internships**

David Grant USAF Medical Center, Travis AFB, CA, 1987

**Residency**

University of Utah Medical Center, Salt Lake City, UT, 1991

**Fellowships**

UCDAVIS HEALTH SYSTEM

# Jennette L. Boakes, M.D., M.S.

University of California, Davis, Sacramento, CA, 1992

**Board Certifications**

American Board of Orthopaedic Surgery, 1994
American Board of Orthopaedic Surgery, recertification, 2004

**Professional Memberships**

American Academy of Orthopaedic Surgeons
Christian Medical and Dental Association
Limb Lengthening and Reconstruction Society
Pediatric Orthopaedic Society of North America
Shands Circle. Orthopaedic Research and Education Foundation

**Select Recent Publications**

Walker JL, Knapp DF, Minter C, Boakes JL, Salazar JC, Sanders JO, Lubicky JP, Drvaric DM, Davids JR. Fibular Deficiency: Adult Outcomes Following Amputation or Lengthening in Childhood. J. Bone Joint Surg 91A(4):797-804, 2009.

Wright, James G., Yandow, Suzanne, Donaldson, Sandra, Marley, Lisa, on Behalf of The Simple Bone Cyst Trial Group: D. Stephens, J. Crim, KA Murray, B. Alman, D. Armstrong, G. Baird, RM. Bernstein, J. Boakes, J. Bollinger, K. Carroll, P. Caskey, W. Cole, J. D'Astous, R Durkin, H. Epps, D. Feldman, R Ferguson, J. Fisk, K. Guidera, D. Grogan, D. Hedden, A. Howard, MA James, B. Joseph, H. Kim, J. Lubicky, R. Lyon, R McCall, J. McCarthy, C. Mehlman, M. Murphy-Zane, U. Narayanan, C. Novick, C. Ono, N.Y. Otsuka, E. Raney, J. Sanders, D. Scher, P. Schoenecker, P. Smith, A. Stans, S. Sundberg, V. Talwalkar, J. Tavares, C. Tylkowski, H. van Bosse, K. Walker, J. Walker, J.G. Wright, and S. Yandow. A Randomized Clinical Trial Comparing Intralesional Bone Marrow and Steroid Injections for Simple Bone Cysts. J Bone Joint Surg Am 2008; 90: 722-730.

Gupta, MC; Wijesekera, S; Soosan, A; Martin, L; Vogel, LC; Boakes, JL; Lerman, JA; McDonald, CM, Betz, RR. Reliability of radiographic parameters in neuromuscular scoliosis. Spine. 32(6):691-695. March 15, 2007.

Boakes JL, Foran J, Ward SR, Lieber RL. Vastus lateralis adaptation by serial sarcomere addition one year after femoral lengthening. Clin Orthop Relat Res March 2007, 456:250-253.

Boakes JL and Rab GT. Chapter 6: Muscle activity during walking. In Human Walking. TechBooks, York, PA. 2006.

Boakes JL. Viewpoint: Muscle analysis strengthens understanding. Between Us. 19(3):4-5. December 2004

Brower JS, Wootton-Gorges SL, Costouros JG, Boakes J, Greenspan A. Congenital Diplopodia. Pediatric Radiology, 33:797-799, 2003.

Foulk DA, Boakes JL and Rab GT. Caudal anesthesia in clubfoot surgery. J Pediatr Orthop 15(5): 604-607, 1995.

Boakes JL and Stevens, PM. Treatment of genu valgus deformity by medial femoral physeal stapling in congenital absence of the fibula. J Pediatr Orthop 11(6):721-724, 1991.
Lieber RL, Mai MT and Boakes JL. The mechanism of torque generation in the musculoskeletal system: Implications for rehabilitation. In Proceedings of the Seventh Biennial Conference: Motor Disturbances; Mechanisms and Implications for Therapy. (pp.205-219). Published by Cumberland College of Health Sciences. 1989.
Lieber RL and Boakes JL. Muscle force and moment arm contributions to torque production in frog hindlimb. Am J Physiol 254 (Cell Physiol) 23:C769-C772, 1988.
Lieber RL and Boakes JL. Sarcomere length and joint kinematics during torque production in the frog hindlimb. Am J Physiol (Cell Physiol) 23:C759-C768, 1988.

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