

Mark L. Barba, M.D.

EMPLOYMENT

OrthoIllinois
5875 East Riverside Boulevard
Rockford, IL 61114

EDUCATION

Undergraduate: University of Illinois
Champaign, Illinois
B.S. 1985

Graduate School: University of Illinois
Champaign, Illinois
M.S. 1986

Medical School: University of Illinois
Rockford, Illinois
M.D. June 1991

Residency: Grace Hospital/Wayne State University
Detroit, Michigan
Completed July 1996

Fellowship: Rush Joint Replacement and Research Fellowship
Winfield, Illinois
Completed August 1997

BOARD CERTIFICATION

American Board of Orthopaedic Surgeons	
Board Certified	2000
Recertification	2009
Recertification	2019

MEDICAL LICENSURE

Illinois	036-393362
Michigan	4301058317

ACADEMIC APPOINTMENTS

University of Illinois Assistant Clinical Professor

University of Illinois Assistant Professor Department of Biomechanics

University of Illinois Clinical Advisor Disability Laboratory

HONORS AND AWARDS

Alpha Omega Alpha Honor Society	1990
Outstanding Commitment to Quality, OSF Hospital	2017

LEADERSHIP

Chairman Department of Surgery OSF	2006-2008
Chairman Quality Committee OSF	2008-2010
Chairman Credentials Committee OSF	2010-2012
Chief of Staff OSF	2012-2014

Publications

Revision with Cementless Stem Technique. **Mark Barba**, Wayne Paprosky, The Hip, Master Techniques in Orthopedic Surgery; Ed. Clement B. Sledge. Lippincott – Raven 1997.

Arabindi R., **Barba M.**, Solomon M., Arp P., Paprosky W.: Bypass Fixation. Orthopedic Clinics of North America, 1998.

Arabindi R., Paprosky W., Nourbash P., Kronick J., **Barba M.**: Extended Proximal Femoral Neck Osteotomy, in Zuckerman JD; Ed.: Instructional Course Lectures 48, Rosemont, Illinois, American Academy of Orthopedic Surgeon, 1999.

When to Operate on Femoral Lysis. J. L. Kronick, W.G. Paprosky, **M. L. Barba**; presented at Harvard Hip Course, 1996.

Complications of the Extended Proximal Femoral Osteotomy. **M. L. Barba**, J. L. Kronick, W.G. Paprosky; presented at Mid America Orthopedic Society annual meeting, 1997.

Specific Identification of Acetabular Components. **M. L. Barba**, W. Maloney, W. G. Paprosky, H. Rubash; presented at the American Academy of Orthopedic Surgery, AAOS, 1997.

Revision of Porous Coated Acetabula with Porous Coated Acetabula. **M.L. Barba**, R. Arabindi, W. G. Paprosky; presented to The American Academy of Orthopedic Surgery 1997

Acetabular Revision without Femoral Exchange: A High Association with Dislocation. R. Arabindi, **M. L. Barba**, M. Solomon, W. G. Paprosky; presented to The American Academy of Orthopedic Surgery. 1997

Kronick JL, Barba ML, Paprosky WG. Extensively coated femoral components in young patients. *Clinical Orthopedics and Related Research*. 1997 Nov (344):263-274.

Systemic and local toxicity of metal debris released from hip prostheses: A review of experimental approaches.

Divya Rani Bijukumar PhD a, Abhijith Segu MS a, Júlio C.M. Souza PhD b, XueJun Li PhD a, Mark Barba MD a, c, Louis G. Mercuri DDS, MS d, Joshua J. Jacobs MD d, Mathew Thoppil Mathew Nanomedicine: Nanotechnology, Biology and Medicine Volume 14, Issue 3, April 2018, Pages 951-963

Differential toxicity of processed and non-processed states of CoCrMo degradation products generated from a hip simulator on neural cells

Divya Rani Bijukumar, Abhijith Segu, YongChao Mou, Reza Ghodsi, Tolou Shokufhar, Mark Barba, Xue-Jun Li & Mathew Thoppil Mathew (2018, *Nanotoxicology*, 12:9, 941-956

Comparison of metal ion levels in patients with hip resurfacing versus total hip arthroplasty, Craig W. Forsthoefel, Nicholas M. Brown, Mark L. Barba *Journal of Orthopedics* Volume 14 Issue 4 December 2017 pages 561-564

Wear particles induce a new macrophage phenotype with the potential to accelerate material corrosion within total hip replacement interfaces Divya Rani Bijukumar, Shruti Salunkhe, Guoxing Zheng, Mark Barba ,Deborah J. Hall, Robin Pourzal, Mathew T. Mathew ,*Acta Biomaterialia* January 2020

Research

A Prospective, Randomized, Comparative Multi-Center Study to Evaluate the Performance of the DePuy PFC Sigma CoCr Tibial Tray using GVF vs Crosslinked Polyethylene in Cemented Total Knee Arthroplasty. Protocol #03111 2007-Present

Multicenter Trial of the continuum Ceramic Bearing System in Total Hip Arthroplasty. Protocol 08-100 (G100053)

