

Curriculum Vitae  
**Mark Thomas Nolden, MD**  
*Northwestern Orthopaedic Institute, LLC*  
Chicago, IL

## **Education and Training**

### ***Fellowship (2001-2002)***

Spine Surgery  
*The Kenton D. Leatherman Spine Fellowship*  
Spine Institute for Special Surgery  
University of Louisville School of Medicine  
*Departments of Orthopaedic Surgery and Neurosurgery*  
Louisville, KY

### ***Residency (1996-2001)***

*Chief Resident, 2000-2001*  
Appointment by Chairman  
Department of Orthopaedic Surgery  
Northwestern University Feinberg School of Medicine  
Chicago, IL

Resident in Orthopaedic Surgery, 1996-2001  
Department of Orthopaedic Surgery  
Northwestern University Feinberg School of Medicine  
Chicago, IL

### ***Medical School (1992-1996)***

University of Wisconsin Medical School  
Degree: Medical Doctor, conferred May, 1996  
Madison, Wisconsin

### ***Undergraduate (1988-1992)***

University of Wisconsin-Madison Degree: Bachelor of Science, conferred May, 1992  
Major emphasis: cellular and molecular biology (zoology)

## **Honors**

***Chief Resident***, 2000-2001

Appointment by Chairman  
Department of Orthopaedic Surgery  
Northwestern University School of Medicine

***Alpha Omega Alpha Medical Honor Society***, member appointment 1996  
(top 5% of class), University of Wisconsin Medical School Chapter

***Evan and Marion Helfaer Scholarship*** for academic achievement (given to the five top ranked students of the class), University of Wisconsin Medical School, 1995

***B.S. Graduation with Distinction (magna cum laude, top 10%)***, conferred 1992, University of Wisconsin-Madison

*Dean's list* six of eight semesters, University of Wisconsin-Madison, 1988-1992

Appointed membership in *Golden Key National Honor Society*, College of Letters and Sciences, 1991

## **Licensure**

State of Illinois

## **Board Certification**

### ***Board Certified***

*American Board of Orthopaedic Surgery*  
Spine surgery subspecialty orals  
Passed Part II Oral examination, July 2005

Passed Part I ABOS written board examination (***top 1 percentile rank out of approx. 800 examinees***), July 2001

Diplomate, National Board of Medical Examiners, completion of Steps 1, 2, and 3 of USMLE examination, 1997

## **Faculty Appointments (as fellow)**

University of Louisville Hospital  
Louisville, KY

Norton Hospital  
Louisville, KY

Kosair Children's Hospital  
Louisville, Kentucky

### **Attending Appointments**

Clinical Instructor and Attending Spine Surgeon  
*2003 to the present*  
Spine Surgery service  
Department of Orthopaedic Surgery  
Northwestern University Feinberg School of Medicine  
Northwestern Memorial Hospital  
Chicago, IL

St. Joseph's Hospital  
2900 North Lake Shore Drive,  
Chicago, IL

### **Society Memberships**

Fellow, *American Academy of Orthopaedic Surgeons*  
Fellow Member, *North American Spine Society*  
Member, *American Medical Association*  
Member, *Illinois Association of Orthopaedic Surgeons*  
Member, *Chicago Medical Society*

### **Research/ Publications**

Nolden, Mark; Sarwark, John; Vora, Anand. A Kyphectomy Technique with Reduced Perioperative Morbidity for Myelomeningocele. *Spine*, August 15, 2002

Nolden, Mark; Mirkovic, S. Operative Treatment of Cervical Spine Injuries: An Update. *Topics in Spinal Cord Injury*, 9:3 Winter 2004

Johnson, B., Nolden, M.T., Templin C.R., Mirkovic, S.: Fusion Rates, Functional Results, and Radiographic Parameters of Three-Level Anterior Cervical Discectomy and Fusion. Poster Presentation, *Cervical Spine Research Society* meeting, San Diego, 2005; submitted for publication, *Journal of Spinal Disorders and Techniques*, late 2007.

Templin C.R., Nolden, M.T., Mirkovic, S.: Presence of anterior bridging fusion in anterior lumbar interbody fusion with single cylindrical cage and supplemental posterior translaminar screws. Abstract Presentation, *International Society for the Study of the Lumbar Spine*, 2006.

*Principal Co-investigator* (with Dr. Khalid Malik in the Department of Anesthesiology) for the study of Functional Anesthetic Discography (FAD) compared to traditional provocative discography; goal of the study is to determine the added predictive value of FAD in determining the outcomes of surgical intervention for the diagnosis of severe discogenic low back pain. Set to enroll patients with current NMH/ Northwestern University IRB approval.

Contributing author on spine section of Lippincott's Primary Care Musculoskeletal Radiology, editor/ primary author Paul Lotke, MD, slated for publication late 2009.

Proposed Northwestern Memorial Hospital primary investigator for FDA multicenter, randomized, prospective trial evaluating the *Nunec*<sup>TM</sup> cervical disc replacement prosthesis (*Pioneer Surgical Technology*®) pending IRB approval.

### **Medical Device Consulting**

Consultant for *Pioneer Surgical Technology*® on **Anterior Cervical Plate** design project for 2009-2010.

### **Presentations/Course Faculty**

Appointed training faculty and consultant, Medtronic Corporation, for the Prestige<sup>TM</sup> cervical disc replacement system, spring 2007.

Instructing surgeon for the *VIP visiting surgeon program* for the Prestige<sup>TM</sup> cervical disc replacement system at Northwestern Memorial Hospital (Medtronic corporation)

Participant in Lumbar Degenerative Classification Study, chief investigator Steven Glassman, MD, Associate Professor of Orthopaedic Surgery, University of Louisville School of Medicine, 2002

Peer Reviewer of cervical spine surgery abstracts submitted for acceptance and presentation at the *North American Spine Society* 2009 meeting

Lecturer for Northwestern Memorial Hospital's community outreach educational program, subject lumbar spinal stenosis and current concepts in treatment.

*Accelerated Rehabilitation Services* spine surgeon presenter to worker's compensation nurses and case managers, multiple dates on request

Vertebral Osteoplasty (Vertebroplasty) Cadaveric Course  
Instructing Faculty  
InterporeCross International, Corporate sponsor  
September 20, 2003  
Rush University School of Medicine

Course Faculty  
Chicago Trauma Symposium  
*Emerging Technologies: Cervical Fixation and Disc Replacement*  
August 11-14, 2005  
Chicago, IL

Course Faculty  
*Inside Track Residents (Young Surgeons) Program*  
Sponsored by Medtronic Sofamor Danek  
Chicago, IL  
March 21, 2006

**Administrative appointments**

Appointed voting member, Northwestern Memorial Hospital *Medical Device and Technology Executive Committee*

Voting member and subcommittee chair respectively, *Osteobiologics Subcommittee* and *Spine Surgery Subcommittee*

**Visiting surgeon program participant**

Professor Dr. med. Jurgen Harms  
Klinikum Karlsbad  
University of Heidelberg  
Karlsbad, Germany  
April 9-13, 2005