

Shana N. Miskovsky, M.D.



Department of Orthopaedic Surgery
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CURRENT POSITIONS:

Assistant Professor, Case Western Reserve University School of Medicine

Head, Division of Orthopaedic Foot and Ankle Surgery

Faculty, Division of Orthopaedic Sports Medicine (Knee and Shoulder Surgery)

Head Team Physician, Case Western Reserve University "Spartans" and Lake Erie College "Storm"

Basic Science Curriculum Block 6 Co-Leader, and Musculoskeletal Section Director, Case Western Reserve University School of Medicine

EDUCATION:

Board-Certified Orthopaedic Surgeon 12/31/2007; American Board of Orthopaedic Surgery (ABOS) Part I Written Exam (Pass) and Part II Oral Exam (Pass)

ABOS Subspecialty Certificate in Sports Medicine (Awarded 11/4/10)

Fellowship Training in Orthopedic Foot and Ankle Surgery at the American Sports Medicine Institute (ASMI) in Birmingham, AL with Dr. John Gould and Dr. John Kirchner (8/04-4/05)

Fellowship Training in Orthopedic Sports Medicine (Knee and Shoulder Surgery) at the Hughston Clinic in Columbus, Georgia with Dr. Glenn Terry (8/02-7/03); Research fellowship (8/03-7/04)

Recipient of Hughston Sports Medicine Research Foundation's Fellow's Day Research Award (6/03)

Post-graduate training in the Ohio State University Orthopedic Surgery Residency Program in Columbus, Ohio with Chairman Dr. Christopher Kaeding (7/97-6/02)

M.D., University of Pittsburgh School of Medicine (8/93-5/97)
USMLE Step 1, 2 and 3: Pass

B.S., Pennsylvania State University, University Scholars Program (6/89-5/93)
Major: Premedicine with Honors in Physics
Honors: Phi Eta Sigma, Eberly College of Science Academic Honors,
Mistress of Ceremonies for 1992 President's Convocation,
Brickwidde Award for outstanding honors thesis in Physics

**RESEARCH
AND
PUBLICATIONS:**

Author of Book Chapters for Orthopaedics: Diagnosis and Treatment Essentials for Primary Care Physicians (publication in process 2011)

Shana Miskovsky MD, Andrew Steckler BS, "Ankle Sprains"
Shana Miskovsky MD, Kathryn Muir BA, "The Diabetic Foot"
Shana Miskovsky MD, Kathryn Muir BA, "Flatfoot (Pes Planus)"
Shana Miskovsky MD, John Richards BS, "Metatarsalgia"
Shana Miskovsky MD, Andrew Steckler BS, "Plantar Fasciitis"
Shana Miskovsky MD, "Shoulder Instability"

Kosuke Izumi MD, Masaki Takagi, Aditi S. Parikh MD, Amanda Hahn MS, Shana N. Miskovsky MD, Gen Nishimura, Chiharu Torii, Kenjiro Kosaki, Tomonobu Hasegawa MD, Derek E. Neilson MD, "Late Manifestations of Tricho-Rhino-Pharangeal Syndrome in a Patient: Expanded Skeletal Phenotype in Adulthood." American Journal of Medical Genetics A. Vol. 152A(8):2115-2119, 2010.

Shana Miskovsky, MD. Hallux Rigidus: Clinical Presentation and Management of the Stiff Great Toe. American Academy of Orthopaedic Surgeons Web site: Orthopaedic Knowledge Online 2009;7(5):
<http://www5.aaos.org/oko/description.cfm?topic=FOO032>. Accessed July 8, 2011.

Shana Miskovsky MD, Patrick Getty MD, Scott Simpson PhD, "Bringing Musculoskeletal Anatomy to "Life:" A Case-based Approach." Poster presentation at Harvard-Macy Institute's Program for Educators in the Health Professions (5/06)

Glenn Terry, MD, Shana Miskovsky, MD and R. Lance Kelly, PT. "The Role of Thermal Treatment in Shoulder Instability Surgery." Sports Medicine and Arthroscopy Review Vol 13(4): 225-231, 2005.

Shana Miskovsky, MD, John S. Gould, MD, Jeffrey Dugas, MD, E Lyle Cain, MD, Carlos Ramirez, MD and Rachel Fowler, MSRD. "Surgical Outcomes of Mosaicplasty in the Treatment of Osteochondral Lesions of the Talus." Paper presented at the University of South Alabama Department of Orthopaedics 16th Annual Meeting of the Southeastern Foot Club (5/05).

Glenn Terry, MD and Shana Miskovsky, MD (presenter). "Anterior-Superior Shoulder Instability: Diagnosis and Characterization." Paper presented at 2004 Hughston Society Meeting (6/04).

Shana Miskovsky, MD, Christopher Kaeding, MD, and Lawrence Weis, MD. "Proximal Tibiofibular Joint Ganglion Cysts: Excision, Recurrence and Arthrodesis." American Journal of Sports Medicine Vol 32(4):1022-8, 2004. Paper presented at the 2001 Mallory-Coleman Annual Research Day (6/01) and at the 2002 Mid-America Orthopedic Association Annual Meeting (4/02).

Glenn Terry, MD and Shana Miskovsky, MD (presenter). "Surgical Repair of Anterior-Superior Shoulder Instability: A Comparison of Four Treatment Methods." Paper presented at the 2003 Hughston Society meeting (6/03).

Glenn Terry, MD, Shana Miskovsky, MD, Ron Courson, MD, Richard Ellis, MD and John Henderson, DO. "Medical site preparation for an Olympic Venue." Article submitted to Clinical Orthopedics and Related Research for publication as part of an Olympic Sports Medicine Symposium (9/03).

Shana Miskovsky, MD, Anne Sullivan, MD, and Peter Edwards, MD, "MRI Lateral Meniscal Blind Spot in Acutely ACL-injured Knees." Paper presented at the 2002 American Academy of Orthopedic Surgeons 69th Annual Meeting (2/02) and the 2002 AOSSM annual meeting (6/02).

Shana N. Miskovsky, N.M. Miskovsky and P.H. Cutler, "Calculated I-V characteristics of a gold liquid metal ion source for a prototype emitter modeled as a cone-sphere." *Journal of Vacuum Science and Technology*, Vol.B 12(2): 737-744, Mar/Apr 1994. Portion of University Scholars Program Undergraduate thesis. Poster presented at the Sixth International Vacuum Microelectronics Conference (6/93).

**CASE
WESTERN
RESERVE
UNIVERSITY
FACULTY
ACTIVITIES:**

- Mentor for Operating Room Observation Experiences for undergraduate students enrolled in the student athletic training program or those interested in medicine as a career (2006-present)
- Coordinator for quarterly "Sports Medicine Forum" educational sessions with athletes, coaches and athletic trainers (2006-present)

**CASE
WESTERN
RESERVE
UNIVERSITY
SCHOOL OF
MEDICINE
FACULTY
ACTIVITIES:**

- Developer and Co-leader of "Surgical Anatomy 515: Musculoskeletal" advanced anatomy course for 4th year medical students, Orthopaedic interns and for Masters in Applied Anatomy students (2006-present)
- Co-leader of Curriculum Design Committee for Basic Science Block 6 (Neuroscience, Psychiatry and Musculoskeletal system) (2005-2008)
- Musculoskeletal Section Director, Block 6 Basic Science Curriculum (2007-2011)
- Faculty member Block 7 Basic Science Curriculum, Co-Developer of Musculoskeletal Anatomy course for 2nd year medical students (2007-present)
- Fellow representing CWRU in the Harvard-Macy Institute's "Program for Educators in the Health Professions" (1/06, 5/06)
- Recipient of 2008 Scholarship in Teaching Award for Basic Science Block VI: Cognition, Sensation and Movement, WR2 curriculum
- Thesis advisor for medical student project, "Biomechanical Effects of Prophylactic Knee Bracing on the Lower Extremity" (2007-8)
- Thesis advisor for medical student project, "Influence of Osteoarthritis Treatment Modalities on Biochemical Markers and dGEMRIC MRI Findings in a Rat Osteoarthritis Model." (2009-present)
- Thesis advisor for medical student project, "Prevalence of Anterior Ankle Impingement in a Population and Relevant Anthropometric Characteristics" (2011-present)

- Thesis advisor for medical student project, “Patterns of Injury in Low-energy LisFranc Injuries: A clinical and biomechanical analysis” (2011-present)
- Thesis advisor for medical student project, “Comparison of Suture Configuration with Mode of Failure after Arthroscopic Stabilization of Anterior-inferior Shoulder Instability in a Cadaveric Model” (2011-present)
- Faculty member for Physical Diagnosis Course for 1st Year Medical Students (2006-7)
- Invited Panel Member for Case AMWA for discussion on Women in Medicine and Career Choices (10/07)
- Community Patient Care Preceptor for 1st and 2nd year medical students (2006-present)

**UH CASE
MEDICAL
CENTER
RESIDENCY
AND
FELLOWSHIP
FACULTY
ACTIVITIES:**

- Attending Faculty for the Foot & Ankle and Sports Services for Case Western Reserve Orthopaedic Surgery Residency Program (2005-present)
- Attending Faculty for the UH/RBC Primary Care Sports Medicine Fellowship Program (2007-present)
- Clinical Preceptor for Residents in the Family Medicine Residency Program on their musculoskeletal rotation (2006-present)
- Member of Orthopaedic Resident Selection Committee and Interviewer (2005-present)
- Faculty advisor for the *Case Orthopaedic Journal* (2005-present)

**NATIONAL
COMMITTEE
MEMBERSHIP:**

Selected member of the United States Medical Licensing Examination (USMLE) Step 2 Surgery Test Material Development Committee (TMDC) for the National Board of Medical Examiners (NBME) (2008-present)

**CONSULTANT
REVIEWER FOR
JOURNALS:**

- *Journal of Bone and Joint Surgery* (2005-present)
- *American Journal of Sports Medicine* (2006-present)

**ORTHOPAEDIC
AND SPORTS
MEDICINE TEAM
AND EVENT
COVERAGE:**

- Head Team Physician for Case Western Reserve University “Spartans” (7/07-present)
- Head Team Physician for Lake Erie College “Storm” Division II (7/08-present)
- Team USA Medical Staff Member for 2010 Paralympic Winter Games in Vancouver, BC (2/10-3/10)
- Team USA Medical Staff Member for the 2011 World University Games in Shenzhen, China (8/11)
- Selected Physician for the United States Olympic Committee’s Volunteer Physician Program for Marquette Olympic Training Center Medical Coverage (6/07-7/07); for Development and Selection Camp for USA Women’s Hockey Team at Lake Placid Olympic Training Center (6/08-7/08)
- Medical Director for the 2007 and 2010 US Junior Figure Skating Championships in Cleveland, OH (11/06, 12/09)
- Medical Director for 2011 US Figure Skating Program Components Camp (4/11), 2011 Synchronized Skating Camp (7/11) and 2011 Eastern Great Lakes Regional Championships (9/11)

- Medical Director for American Cup/ Ohio Invitational Short Track Speed Skating Championships (11/05)
- Team Physician for Orthopaedic Coverage for the Cleveland “Gladiators” Arena Football Professional Team (AFL) (2008-present)
- Team Physician for Georgia Athletic Coaches Association’s North-South Classic All-Star High School Football Classic game (12/03)
- Team Physician for Russell Valley “Warriors” High School Football Team (2002)
- Team Physician for Ashville High School “Bulldogs” Football Team (2004)
- Assistant Team Physician for Columbus, GA “Cottonmouths” Professional Hockey Team (affiliated with the NJ Devils) (2002-2004)
- Assistant Team Physician for Columbus, GA “Catfish” Professional Baseball Team (affiliated with LA Dodgers) (2004); exit physicals volunteer (8/03)
- Assistant Team Physician for Columbus, GA “Riverdragons” Professional Basketball Team (NBA developmental league) (2003-2004)
- Assistant Team Physician for Columbus, GA “Wardogs” Arena Football Professional Team (AF2) (2004)
- Assistant Team Physician for Case Western Reserve University “Spartans” Division III Athletes (2005-2007)
- Assistant Team Physician for Fort Valley State University “Wildcats” Division II Football Team and Scholarship Athletes (2002-2004)
- Orthopedic Consultant and medical team member for the United States Figure Skating Association’s 2004 State Farm National Figure Skating Championships (1/04)
- Medical Coverage Coordinator and team member for the “Tour de Georgia” Professional Cycling Race with Lance Armstrong (4/03, 4/04)
- Medical Coverage Coordinator for Poplar Place Horse Trainer: cross country and show jumping events (3/03), physician volunteer (10/02)
- Medical Team Member for 2008 Division I MAC conference Basketball Championships in Cleveland, OH (3/08)
- Medical Team Member for the 2007 US National Short Track Speed Skating Nationals in Cleveland, OH (2/07)
- Medical Team Member for the Hughston Sports Medicine Fitness Series: Triathlon at Calloway Gardens (8/02, 8/03)
- Physician Volunteer for the Cincinnati Ballet performances of the “Nutcracker” (12/05)
- Physician Volunteer for NCAA Division II South Atlantic Men’s Basketball Championships at Columbus State University campus (3/02)
- Physician Volunteer for PGA Tour’s “Buick Challenge” at Calloway Gardens (10/02)
- Physician Volunteer for the Army Rugby Tournament Classic (8/03, 5/04)
- Physician Volunteer for Georgia High School Association’s State High School Football Semi-finals held in the Georgia dome (12/02)
- Physician Volunteer for The Institute of Athletic Health Care and Research, Inc. providing free physicals for area high school students (8/03,10/03)
- Physician Team Member performing pre-participation physical examinations for local Cleveland high schools (7/05-present); Georgia Southwestern University (8/02), Fort Valley State University (8/02, 4/03, 8/03) and the Ohio State University Football Classic game (6/02)
- Organizer and Volunteer for the First Aid Station at the World Tang Soo Do (Korean Karate) Association’s World Championship Competition (8/00, 7/02)

- Volunteer for Riverside Sports Medicine coverage of the Ohio International Rugby Tournament (1999-2001), Upper Arlington High School, training room (2000-2001) and the Ohio State University Athletics Training Room (1998)

**SPEAKING
ENGAGEMENTS:**

- Invited speaker for US Figure Skating Educational Session for Parents during Program Components Camp and Synchronized Skating Camp, "Figure Skating: Maximize Performance, Decrease Injuries!" (4/11, 7/11)
- Invited speaker for University Hospitals Rehabilitation and Sports Medicine's Seminar for Coaches, "The Female Athlete" (5/09)
- Invited Speaker for 17th Annual Cleveland Review of Rheumatic Diseases Conference, "Orthopaedic Management of Tendonitis and Arthritis of the Foot and Ankle" (4/07)
- Grand Rounds Lecturer for the Department of Medicine- Division of Rheumatology: "Common Sports Injuries: A Primer" (04/08)
- Grand Rounds Lecturer for University Hospitals of Cleveland, Case Medical Center Department of Orthopaedics: "Injuries to the foot and ankle in sports"(6/05, 10/08), "Ankle Arthritis: Treatment Alternatives" (11/05), "The Diabetic Foot and Charcot Arthropathy" (1/06, 8/09), "Neurological Disorders of the Foot and Ankle with Pathologic Gait (6/06)
- Speaker for Case Department of Athletics Sports Medicine Forum, Case Western Reserve University: "Sports Nutrition" (2007)
- Featured Speaker for "Orthopaedic Update for Primary Care Physicians" Course sponsored by University Hospitals on topics of "Shoulder Pain" and "Foot Pain: Evaluation and Management" (11/05), "Therapeutic Injections: Hip, Knee, Ankle, Foot" (11/06)
- Grand Rounds Speaker for Southwest General Hospital, "Common foot and ankle disorders encountered in practice." (8/05, 3/09)
- Invited Speaker for Case Western Reserve University's Sports Medicine Forum Series: "Sports Nutrition" (9/07), "Baseball Conditioning: Who, What, When, Where and Why?" (10/06), "Iontophoresis" (4/06)
- Course Faculty and Featured Speaker for the University of South Alabama Department of Orthopaedic Surgery's 16th Annual Meeting Southeastern Foot Club, "Surgical Outcomes of Mosaicplasty in the Treatment of Osteochondral Lesions of the Talus" (5/05)
- Featured Speaker for the American Sports Medicine Institute (ASMI) Foot and Ankle Conference, "Hallux Rigidus" (11/04)
- Featured Speaker for the ASMI Sports Medicine Conference, "Osteochondral Lesions of the Talus (OLT)" (11/04)
- Lecturer, dissector for Foot and Ankle Anatomy for ASMI Primary Care-Sports Medicine fellows (9/04)
- Featured Presenter for Hughston Society Meeting "Anterior-superior shoulder instability: Use of the Comprehensive Shoulder Instability Testing Sequence (CSITS)" (6/04)
- Presenter for Hughston Sports Medicine Research Foundation Fellow's Research Day "Characterization of anterior-superior instability of the shoulder: the SLLAC lesion" (6/03)
- Presenter for Hughston Sports Medicine Hospital's 1st Annual Baseball Injury Prevention Seminar, "Upper extremity injuries in throwing athletes" (11/02)

- Guest Speaker for the Riverside Methodist Hospital In-Service for nursing education, "Compartment Syndrome: Evaluation and Management" (9/01)
- Featured Speaker for the World Tang Soo Do Association Central Ohio Clinic, "Common Sports Injuries: Focus on the Martial Arts" (1/00, 2/01)
- Featured Speaker for the National Association of Orthopedic Nurses' Conference, "Rotator Cuff Tendonitis: Diagnosis and Management" (2/00)
- Featured Grand Rounds Speaker for the Ohio State University Department of Orthopedic Surgery, "ACL injuries in Skeletally Immature Athletes" (4/99)
- Guest Speaker for the Riverside Methodist Hospital Department of Surgery's Trauma Conference, "Pelvic Ring Injuries" (10/99)

**TV SPECIALS
AND
INTERVIEWS:**

- "Olympic Medicine" special during Torino Olympics on Channel 3 highlighting the Orthopaedic Surgery Department at University Hospitals of Cleveland/Case Western; Interview covering overuse injuries in figure skating, the role of the figure skating boot in creation of these injuries and issues in skating boot redesign (2/06).
- Special Invited Guest on Cleveland's WKYC-TV3 Channel 3 "Good Company" Morning Show discussing the cause, presentation and treatment of tendinitis in athletes of all ages (2/08).
- University Hospitals Sports Medicine website YouTube interview on "Sports Nutrition and Supplements" (6/09)

**RELATED
PROFESSIONAL
ACTIVITIES:**

- Organizer and Instructor of Musculoskeletal Anatomy and Imaging Course for medical students interested in Orthopedic Surgery (9/00, 8/01)
- University of Pittsburgh American Medical Student Association (AMSA) Chapter Vice President (1994-1995); National Liaison to the National Council on Aging (1995-1996); Homeless outreach education program lecturer and clinic volunteer (1993-1995); Steering Committee member for first University of Pittsburgh Dance Marathon for The Family House Charity for transplant patients (1994-1995)
- Faculty and Students Together (FAST) student advisor (1994-1995)
- Student Interviewer for the University of Pittsburgh School of Medicine (1993-1995)
- Volunteer for the Pennsylvania Special Olympics State Games (1991-1992)
- Organizer/Instructor of self-defense seminars for the Center for Women Students, Residence Halls, Girl Scouts, Sororities and the Second Mile (1989-1993)

**CONFERENCE
PARTICIPATION:**

- American Academy of Orthopedic Surgeons Annual Meeting (2/02, 3/04, 2/05, 2/07, 3/08, 2/09)
- American Orthopaedic Foot and Ankle Society Annual Meeting (7/04, 7/05, 7/06, 7/10)
- American Orthopedic Society for Sports Medicine Annual Meeting (6/02, 6/06, 7/08, 7/09, 7/10)
- American College of Sports Medicine's Team Physician Course: Part I (2/04), Part II (2/05)
- Arthroscopy Association of North America Annual Fall Meeting (11/04, 12/05)
- International Society of Biomechanics 7th Symposium Footwear Biomechanics (7/05)

- University of South Alabama Department of Orthopaedics 16th Annual Meeting, Southeastern Orthopaedic Foot Club (5/05)
- The American Sports Medicine Institute 23rd Annual Injuries in Baseball Course (1/05)
- 2004 Masters in Orthopedic Coding (sponsored by AAOS) (2/04)
- SBOT 34° Congresso Brasileiro De Orthopedia E Traumatologia Conference in Sao Paulo, Brazil (10/02)
- Miller's Colorado Orthopedic Review Course (5/02)
- AO ASIF Principles of Fracture Management Course (6/99)
- Annual Mid-America Orthopedic Association Meeting (4/02)
- 18th Annual Current Concepts in Joint Replacement (12/01)
- Dallas Short Course: Orthotics and Prosthetics (10/99)

PROFESSIONAL MEMBERSHIPS:

- American Academy of Orthopedic Surgeons (AAOS)
- American Orthopedic Society for Sports Medicine (AOSSM)
- Arthroscopy Association of North America (AANA)
- American Orthopedic Foot and Ankle Society (AOFAS)
- American College of Sports Medicine (ACSM)
- Hughston Society
- American Sports Medicine Fellowship Society
- Harvard Medical School Postgraduate Association

OTHER EMPLOYMENT:

- Counselor/Student Teacher for Russian and German Foreign Language Camp for high school students (1989)
- Teaching Assistant for Biochemistry 241 (Introductory Biochemistry) at the Pennsylvania State University (1991)

AMATEUR AND PROFESSIONAL FIGURE SKATING ACTIVITIES:

- United States Figure Skating Association (USFSA) triple gold medalist in freestyle, figures and ice dance; bronze medalist in pairs skating
- Figure Skating Coach of competitive and recreational skaters (1989-1995)
- Assistant Director of summer Penn State Figure Skating Sports Camp (1992-1995) and featured lecturer on nutrition in sports and off-ice training/conditioning techniques (1992-1995)
- Assistant Director (1991-1993), Choreographer and Featured soloist (1990-1994) in annual Penn State University ice show, "Ice Rhythms"

SPECIAL INTERESTS:

- Fourth degree black belt Full Instructor of Isshinryu Karate
- World Tang Soo Do Association (Korean Karate) certified Black Belt Instructor
- Lifetime member and exhibitor for the Art Alliance of Central PA
- Featured demonstrator of the art of Ukranian Easter Egg decorating (Pysanky) at the annual Penn State Slavic Festival (1985-present)

REFERENCES:

Dr. Glenn Terry, MD, Orthopedic Sports Medicine Fellowship Program, Division of Shoulder and Knee Reconstructive Surgery, Hughston Sports Medicine Foundation, 6262 Veteran's Parkway, Columbus, GA 31908, 706-494-3278

Dr. John Gould, MD, Director Foot and Ankle Surgery Fellowship Program
UAB Department of Orthopaedic Surgery, Suite 200, 1201 11th Avenue South,
Birmingham, AL 35205, 205-930-7708

Dr. Randall Marcus, MD, Chairman of the Department of Orthopaedic Surgery,
University Hospitals of Cleveland: Case Medical Center,
Case Western Reserve University School of Medicine,
11100 Euclid Avenue, Stop 5043
Cleveland, OH 44106, 216-844-3040

Dr. John Kirchner, MD, Assistant Director of Foot and Ankle Fellowship Program
UAB Department of Orthopaedic Surgery, Suite 200, 1201 11th Avenue South,
Birmingham, AL 35205, 205-930-7708

Dr. Christopher Kaeding, MD, Ohio State University
Department of Orthopedic Surgery
Director of Sports Medicine Fellowship Program, 2050 Kenny Road,
Columbus, OH 43221, 614-293-3600

Dr. Peter Edwards, MD, Ohio Orthopedic Center of Excellence
Director of Sports Medicine Fellowship Program,
4605 Sawmill Road
Upper Arlington, OH 43220, 614-827-8700