

Nirav A. Shah, M.D.
Orthopaedic Surgery,
Sports Medicine, Arthroscopy

EDUCATION

- 8/99-6/03 UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE Chicago, IL**
Doctor of Medicine
Illinois State General Assembly Scholar – Full Tuition Scholarship
USMLE Step 1, 2 Passed
- 9/95-6/99 NORTHWESTERN UNIVERSITY Evanston, IL**
B.S. in Biomedical Engineering (Specialization in Biotechnology)
McCormick School of Engineering
Deans List

WORK EXPERIENCE

- 08/09-present PARKVIEW ORTHOPAEDIC GROUP Palos Heights, IL**
Partner & Board of Directors Member (Private Practice)
ABOS Double Board Certified with Certificate of Added Qualification (CAQ) in Sports Medicine – Active.
Orthopaedic Surgery, Sports Medicine, Arthroscopic Surgery of the Knee, Shoulder & Elbow.
Shoulder Reconstructive Surgery
ABOS Board Certification Part 2 Passed
- 08/09-present UNIVERSITY OF ILLINOIS DEPT. OF ORTHOPAEDIC SURGERY Chicago, IL**
Clinical Instructor Department of Orthopaedic Surgery
Active teaching faculty for PGY2-PGY5 Orthopaedic Surgery Resident Physicians
- 7/08-08/09 BAYLOR AND METHODIST SPORTS MED. INST. Houston, TX**
ACGME Accredited Orthopaedic Surgery Sports Medicine Fellowship
Mentors & Advisors: David Lintner M.D., Walt Lowe, M.D., and Philip Noble, Ph.D.
- 7/04-6/08 NORTHWESTERN UNIVERSITY MCGAW MEDICAL CENTER Chicago, IL**
Residency in Orthopaedic Surgery
Chairman – Michael F. Schafer, M.D.
➤ Northwestern Memorial Hospital, Childrens Memorial Hospital, Evanston Hospital, John Stroger Cook County Hospital, Jess Brown VA Hospital
➤ **ABOS Board Certification Part 1 Passed**
➤ AAOS National Delegate to AMA
➤ Orthopaedic Residency Education Council
- 7/03-6/04 NORTHWESTERN UNIVERSITY MCGAW MEDICAL CENTER Chicago, IL**
Internship in General Surgery
➤ USMLE Step 3 Passed

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CERTIFICATIONS & PRIVILEGES

- Current** Fellow of the American Board of Orthopaedic Surgery (ABOS)
- Current** Certificate of Added Qualification in Orthopaedic Surgery Sports Medicine (ABOS)
- Current** Active Member Advocate Christ Medical Center Department of Orthopaedic Surgery
- Current** Active Member Palos Community Hospital Department of Orthopaedic Surgery
- Current** Active Member Palos Surgery Center
- Current** Illinois State Medical License

PROFESSIONAL SOCIETY MEMBERSHIPS

- Current** Fellow American Academy of Orthopaedic Surgeons
- Current** American Orthopaedic Society for Sports Medicine
- Current** Arthroscopy Association of North America
- Current** Illinois State Medical Society
- Current** Chicago Medical Society
- 08-10** International Cartilage Repair Society (ICRS)
- 06-09** International Society for Technology in Arthroplasty (ISTA)
- 06-09** Mid-America Orthopaed Association (MAOA)
- 06-09** Orthopaedic Research Society (ORS)

ATHLETIC TEAM COVERAGE EXPERIENCE

- 09-Current** Head Orthopaedic Team Physician, Trinity Christian College
- 09-Current** Head Orthopaedic Team Physician, Shephard High School
- 10-Current** Head Orthopaedic Team Physician, Tinley Park High School
- 09-10** Head Orthopaedic Team Physician, Marist High School

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ATHLETIC TEAM COVERAGE EXPERIENCE (Cont.)

- 08-09** Assistant Team Physician, Houston Texans
- 08-09** Assistant Team Physician, Houston Astros
- 08-09** Assistant Team Physician, Houston Dynamo
- 08-09** Assistant Team Physician, University of Houston
- 08-09** Team Physician, Clements High School
- 08-09** NCAA Division II Wrestling/Swimming/Diving National Championship Physician
- 08-09** Major League Soccer Draft Combine
- 08-09** National Football League Draft Combine
- 04-08** Chicago Public School Assistant Team Physician

PUBLICATIONS

1. Levin S.D., Wellman D.S., Liu C, Li Y, Ren Y, **Shah N.A.**, Zhang L,G. Biomechanical Strain Characteristics of Soft Tissue Biceps Tenodesis and Bony Tenodesis. *Journal of Orthopaedic Science*. Sept. **2013**. 18(5). 699-704.
2. Chung, E.J, **Shah N.A.**, Shah, R.N. "Nanomaterials for Cartilage Tissue Engineering." Nanomaterials in Tissue Engineering: Fabrications and Applications. Woodhead Publishing, A.K. Gaharwar (ed.); **2013**, 301-334.
3. Shah, R.N., **Shah, N.A.**, Del Rosario Lim, M.M., Hsieh, C., Nuber, G.W., Stupp, S.I., "Supramolecular Design of Self-Assembling Nanofibers for Cartilage Regeneration" *Proceedings of the National Academy of Science* **2010**, 107, 3293.
4. **Shah N.A.**, Lowe WR, Noble PC, Lintner DM. "Incremental Cyclical Load to Failure & Footprint Analysis of a Novel Single Tunnel Double Bundle Femoral Tunnel Device." Submitted AJSM, Under Review.
5. **Shah N.A.** "Basic Science Review." Orthopaedic Surgery Review: Questions and Answers. Ed. Mark J. Sokolowski. Theime: New York, **2008**. 245-290.
6. Merk B.R., Minihane K.P., **Shah N.A.** "Scapulothoracic Dissociation with Acromioclavicular Separation: A Case Report Of a Novel Fixation Method." *J. Orthop Trauma*. Sept. **2008**; 22(8): 572-5.
7. **Shah N.A.**, Levin S.D. "Musculoskeletal Manifestations of Bioterrorism." *Emergency Bioterrorism*. Ed. Leikin J. New York: McGraw-Hill. In Press: August **2007**.

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PUBLICATIONS (Cont.)

8. **Shah N.A.** "Orthopaedic Knowledge Online Review: Orthopaedic Knowledge Update 8, Knee and Leg – Bone Trauma." <http://www.aaos.org>. Eds. Sarwark JF, Grana WA. American Academy of Orthopaedic Surgeons. **2006**.
9. Bach G, **Shah NA**, Mejia A, Gonzalez MH. "Upper Extremity Dog Bite Wounds & Infections." *Journal of Surgical Orthopaedic Advances*. **2005** Winter; 14(4): 181-4.

PATENTS

1. Shah, R.N., **Shah N.A.**, Stupp, S.I. "Peptide-Based Scaffolds for Cartilage Regeneration and Methods for Their Use" (US8450271). Northwestern University, issue date **May 2013**.

PRESENTATIONS & INVITED FACULTY LECTURES

1. **Shah NA.** "Surgeon Perspective on Additive Manufacturing." 12th Annual Orthopaedic Manufacturing & Technology Exposition and Conference. OMTEC 2016. Rosemont, IL
2. **Shah NA.** "Treatment Update and Innovation in Work Place Shoulder Injuries." Athletico University. May 2016. Chicago, IL
3. **Shah NA.** "Update on Throwing Shoulder Injuries." Athletico University. March 2016. Palos Heights, IL
4. **Shah NA.** "What's New in ACL Reconstruction." Accelerate Rehab Institute. June 2015. Orland Park, IL
5. **Shah NA.** "Update on Meniscus Tear Treatment and Techniques." Midwest (Arthrex) Resident & Fellow Education Conference. 2012. Chicago, IL
6. **Shah NA**, Lowe WA, Noble PC, Lintner DM. "Anatomic ACL Hamstring Aperture Fixation Withstands Patholaxity During Cyclic Loading to Failure." American Association of Orthopaedic Surgeons Annual Meeting. Podium Presentation: March 2010. New Orleans, LA.
7. **Shah NA.** "Cartilage Repair and Innovation in Cartilage Research." Advocate Christ Medical Center Department of Medicine Grand Rounds. May 2010. Oak Lawn, IL.
8. **Shah, N.A.** "New Frontiers in Orthopaedic Tissue Engineering and Regenerative Medicine" *Orthopaedic Surgery Grand Rounds – University of Texas Medical School*, Houston, TX, October 2009.
9. **Shah NA.** "Update on Soft Tissue Fixation in ACL Reconstruction." Advanced Concepts in Orthopaedics and Sports Medicine. Faculty Lecture: September 2009. Las Vegas, NV.
10. **Shah NA.** "Shoulder Pain & Function: Diagnosis & Treatment Options." Advocate Christ Medical Center Community Educaion Program: October 2009. Oak Lawn, IL.
11. **Shah NA**, Capito RM, Nuber GW, Stupp SI. "Accelerated and Enhanced Articular Cartilage Regeneration with Nano-Engineered Scaffolds in Microfracture." American Orthopaedic Society for Sports Medicine (AOSSM) Annual Meeting. Podium Presentation: July 2009. Keystone, CO.
12. **Shah NA**, Capito RM, Nuber GW, Stupp SI. "Self-Assembling Peptide Amphiphiles (PA) as an Adjunct to Microfracture for Articular Cartilage Regeneration." 8thWorld Congress of the International Cartilage Repair Society. Podium Presentation: May 2009. Miami, FL.

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PRESENTATIONS (Cont.)

13. **Shah NA**, Capito RM, Nuber GW, Stupp SI. "Self-Assembling Peptide Amphiphiles as an Adjunct to Microfracture for Articular Cartilage Regeneration: A Rabbit Model." 55th Annual Orthopaedic Research Society (ORS) Meeting. Podium Presentation: Feb 2009. Las Vegas, NV.
14. **Shah NA**, Capito RM, Nuber GW, Stupp SI. "Self Assembling Peptide Amphiphiles as an Adjunct to Microfracture for Articular Cartilage Regeneration: An In Vivo Nanotechnology Rabbit Model." International Meeting on Early Intervention for Knee Arthritis (IMUKA). Poster Presentation: Feb 2009. Maastricht, The Netherlands.
15. **Shah NA**, Capito RM, Nuber GW, Stupp SI. "Self-Assembling Peptide Amphiphiles as an Adjunct to Microfracture for Articular Cartilage Regeneration: A Rabbit Model." Orthopaedic Research & Education Foundation (OREF) Midwest Research Symposium. First Place Scientific Paper Presentation: May 2008. Chicago, IL
16. Capito, R.M., **Shah, N.A.**, Nuber, G., and Stupp, S.I., "Self-Assembling Peptide Amphiphiles for Articular Cartilage Regeneration" *Tissue Engineering and Regenerative Medicine International Society Conference*, Porto, Portugal, June 2008. Selected for the "50 Best Abstracts Award."
17. Capito RM, **Shah NA**, Nuber GW, Stupp SI. "Self-Assembling Peptide Amphiphiles for Articular Cartilage Regeneration." *Tissue Engineering and Regenerative Medicine International Society Conference (TERMIS)*. Podium, June 2008. Porto, Portugal.
18. **Shah NA**, Ghate RS, Stulberg SD. "Lower Incidence and Severity of Heterotopic Ossification with less Invasive Total Hip Arthroplasty." *International Society for Technology in Arthroplasty (ISTA)*. Poster, October 2007. Paris, France.
19. **Shah NA**, Stulberg SD. "Gender Specific Femoral Anteversion Variation in Patients Undergoing Total Hip Arthroplasty." *ISTA*. Podium, October 2007. Paris, France.
20. **Shah NA**, Ghate RS, Stulberg SD. "Less Invasive Total Hip Arthroplasty Reduces Incidence and Severity of Heterotopic Ossification." *Mid-America Orthopaedic Association*. Podium, April 2007. Boca Raton, FL.
21. **Shah NA**, Stulberg SD. "Gender Specific Femoral Anteversion Variation in Patients Undergoing Total Hip Arthroplasty." *Mid-America Orthopaedic Association*. Podium, April 2007. Boca Raton, FL.
22. Gonzales MH, **Shah NA**. "Upper Extremity Dog Bite Wounds & Infections." *12th Annual Musculoskeletal Infection Society*. Podium, August 2002. Snowmass, CO.
23. **Shah NA**. "Shoulder Injuries in the Throwing Athlete." *Accelerated Rehabilitation Conference*. Presentation, July 2009. Palos Heights, IL
24. **Shah NA**. "Current Update on ACL Injury and Reconstruction." *Accelerated Rehabilitation Conference*. Presentation, July 2009. Palos Heights, IL
25. **Shah NA**. "Elbow Ulnar Collateral Ligament Reconstruction and Review in the Overhead Athlete." *Baylor Sports Medicine Institute*. Presentation, January 2009. Houston, TX.
26. **Shah NA**. "Lesions of the Superior Labrum and Bicep Tendon." *Baylor Sports Medicine Institute*. Presentation, September 2008. Houston, TX.
27. **Shah NA**. "Current Updates in ACL Reconstructive Surgery." *Northwestern University Dept. of Orthopaedic Surgery Chairman's Conference*. Presentation. December 2007. Chicago, IL.

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Awards & Recognition

- 2015** National Science Foundation (NSF) Innovation Corps Teams Program I-CORPs Award
- 2014** Commentary and Source for Crain's Chicago Business
- 08-15** Vitals Top 10 Doctor, Compassionate Doctor Recognition, Patients' Choice Award
- 07-09** Corporate Grant Award for Biomechanical Biceps Tendon Research
- 08-09** Corporate Grant Award for Biomechanical Research on ACL Reconstruction Techniques
- 2010** Expert Opinion and Commentary in Journal of American Medical Association for Cartilage Injuries
- 2009** MAOA Research Scholarship
- 2008** First Place Award OREF Basic Science Paper Presentation Midwest Region
- 99-03** Illinois General Assembly Tuition Scholarship
- 2010** Product Development Licensure to Nanotope Inc, Arrowhead and Smith & Nephew
- 09-16** AANA Associate Master Instructor - Faculty