

Eiman Shafa, M.D

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Professional Development

2017 – Present	Twin Cities Spine Center <ul style="list-style-type: none">• <i>Spine Surgeon – Minimally Invasive and Complex Spine Surgery</i>• <i>Medical Director – Abbott Northwestern Hospital Spine Program</i>• <i>Head of Robotic Spine Surgery – Abbott Northwestern Hospital</i>• <i>Director of Education – Twin Cities Spine Center</i>• <i>Chair, Peer Review Work Group for Spine Surgery – Allina Health</i>• <i>Member, Patient Safety Quality Committee – Abbott Northwestern Hospital</i>	<i>Minneapolis, MN</i>
2016 – 2017	MidJersey Orthopaedics - Hunterdon Medical Center <ul style="list-style-type: none">• <i>Spine Surgeon</i>	<i>Flemington, NJ</i>

Education and Training

2015 – 2016	Twin Cities Spine Center <i>Fellow in Spine Surgery – ACGME accredited fellowship</i>	<i>Minneapolis, MN</i>
2014 – 2015	Seton Hall University – School of Health and Medical Sciences St. Joseph's Regional Medical Center <i>Chief Resident – Orthopaedic Surgery</i>	<i>Paterson, NJ</i>
2010 – 2014	Seton Hall University – School of Health and Medical Sciences St. Joseph's Regional Medical Center <i>Resident – Orthopaedic Surgery</i>	<i>Paterson, NJ</i>
2013	Mount Sinai Hospital / Hackensack University Medical Center <i>Resident – Orthopaedic Oncology</i>	<i>New York, NY</i>
2013	Nemours/A.I. duPont Hospital for Children <i>Resident - Pediatric Orthopaedic Surgery</i>	<i>Wilmington, DE</i>
2006 – 2010	Temple University School of Medicine M.D.	<i>Philadelphia, PA</i>
2000 – 2004	Vanderbilt University B.Sc., Interdisciplinary Neuroscience <i>Magna Cum Laude, Phi Beta Kappa, Gamma Beta Phi</i>	<i>Nashville, TN</i>

Leadership

2019 - present

Acting Vice Chair - Spine Surgery - Allina Health

2019 - present

Chair, Neuro-Spine Peer Review Work Group - Allina Health

2018 - present *Chief, Robotic Spine Surgery - Allina Health*
2018 - present Director of Education - Twin Cities Spine Center

Licensure and Certifications

2015 – present Minnesota State Board of Medical Examiners
2016 – 2018 New Jersey State Board of Medical Examiners
2015 American Board of Orthopaedic Surgeons (ABOS) Part I – *Passed*
2019 American Board of Orthopaedic Surgeons (ABOS) Part II – *Passed - Board Certified*

Honors and Awards

2020 *Top Doctors: Rising Stars* — Mpls. St.Paul Magazine
2018, 2017 Vitals Patients' Choice Award
2018 Vitals On-Time Doctor Award

Professional Society Membership

2019 – present Scoliosis Research Society (SRS) – *Candidate Fellow*
2019 – present Society of Minimally Invasive Spine Surgery (SMISS) - *Member*
2018 – present Cervical Spine Research Society (CSRS) – *Candidate Member*
2015 – present International Society for the Advancement of Spine Surgery (ISASS) – *Member*
2013 – present North American Spine Society (NASS) – *Member*
2011 – present American Academy of Orthopaedic Surgeons (AAOS) – *Member*
2013 – 2015 Eastern Orthopaedic Association (EOA)
2011 – 2015 Orthopaedic Trauma Association – *Resident Member (OTA)*
2010 – 2015 New Jersey Orthopaedic Society (NJOS) – *Resident Member*

Editorial Boards

2018 – present Section Reviewer – *Spine Deformity* (Journal of the SRS)

Publications

Book Chapters

Shafa E, Schwender JD
“Minimally Invasive Posterior Lumbar Instrumentation”

The Spine, 7th Edition

Garfin, Eismont, Bell, Fischgrund, Bono eds.
Elsevier Publishing, 2017.

Shafa E, Lonstein JE
“Natural History of Adolescent Idiopathic Scoliosis”

The Atlas of Spinal Orthotics

Fisk, Lonstein, Malas eds.

Exceed Worldwide Publishing, 2017. (*pending publication*)

Shafa E, Shah SA

“Scheuermann’s Kyphosis”

Scoliosis Research Society E-Textbook

<http://etext.srs.org/book/>

SRS - updated 2016

Shafa E, Shah SA

“Scheuermann’s Kyphosis”

Spinal Deformities: The Essentials, 2nd Edition

Heary R ed.

Thieme Medical Publishers Inc. 2014

Shafa E, Shah SA

“Spinal Deformity in Familial Dysautonomia”

The Spine: Medical & Surgical Conditions

Vaccaro et al ed. 2-Volume set. (ISBN: 9789351524946)

Jaypee Brothers Medical Publishing Pvt. Ltd. 2016

Peer-reviewed Publications

Shafa E, Mehbod A

“A Review of Vacuum-assisted Wound Closure Management of Deep Wound Infections after Spinal Surgery”

Accepted manuscript: Review Section

Journal of the American Academy of Orthopaedic Surgeons

Buyuk AF, Shafa E, Dawson JM, Gaffney CJ, Schwender JD

“Minimally Invasive Transforaminal Lumbar Interbody Fusion in Degenerative Spondylolisthesis: Does Age Affect Outcomes?”

Accepted manuscript: Clinical Spine Journal

Buyuk AF, Shafa E, Dawson JM, Schwender JD

“Complications with Minimally Invasive Transforaminal Lumbar Interbody Fusion for Degenerative Spondylolisthesis in the Obese Population.”

Spine. 2019 Dec 1;44(23):E1401-E1408.

Emami A, Faloon M, Issa K, Shafa E, Pourtaheri S, Sinha K, Hwang KS

“Minimally Invasive Transforaminal Interbody Fusion in the Outpatient Setting”

Orthopaedics. 2016 Nov 1;39(6): e1218-e1222.

Pourtaheri S, Shafa E, Emami A, Issa K

“Comparison of Instrumented and Noninstrumented Surgical Treatment of Severe Vertebral Osteomyelitis”

Orthopaedics. 2016 May 1;39(3): e504-e508.

Pourtaheri S, Emami A, Sinha K, Faloon M, Hwang KS, Shafa E, Holmes L

“The Role Magnetic Resonance Imaging in Acute Cervical Spine Fractures.”

The Spine Journal. 2014 Nov 1;14(11):2546-53.

Ahmed IH, Shafa E, Vosbikian MM, Ilyas AM.

“Timing to Fixation of Femoral Fractures due to Gunshot Wounds: A Retrospective Analysis”

Jefferson Orthopaedic Journal. Philadelphia, PA. 2015. pp. 66-69.

Stroh DA, Issa K, Banerjee S, Allert J, Shafa E, Kapadia BH, Mont MA

“Inheritable risk factors for venous thromboembolism in patients undergoing lower extremity total joint arthroplasty.”

J Long Term Eff Med Implants. 2013;23(4):293-300.

Presentations

“Motion Preservation Spine Surgery”

Dan Dock Lecture Series - 2019

“Preventing and Managing Adjacent Segment Disease in Spine Surgery”

Dan Dock Lecture Series - 2018

“Imaging in Spine Pain”

Podium Presentation - 3rd Annual Spine Consensus Conference – Allina Health – 2018

Podium Presentation - 4rd Annual Spine Consensus Conference – Allina Health – 2019

“Complications and Outcomes with Minimally Invasive Transforaminal Lumbar Interbody Fusion (TLIF) in the Morbidly Obese population with Degenerative Spondylolisthesis”

Podium Presentation: IMAST – July 2016

E-Poster: NASS – Oct 2016

Podium Presentation: 2016 John H. Moe Visiting Professor Symposium – Twin Cities Spine Center

“The Role Magnetic Resonance Imaging in Acute Cervical Spine Fractures.”

Podium Presentation: 23rd Annual Research Colloquium - Seton Hall University School of Health and Medical Sciences.

Podium Presentation: Annual George Perez Research Colloquium St. Joseph’s Medical Center Research Fair

Winner 2nd Prize – Best Resident Presentation

Poster Presentation: IMAST – July 2012

Poster Presentation: CSRS – December 2013

“The Safety of Instrumentation in Vertebral Osteomyelitis.”

Podium Presentation: IMAST – July 2013

Poster Presentation: NASS – October 2013

Poster Presentation: 23rd Annual Research Colloquium - Seton Hall University School of Health and Medical Sciences.

“When Do You Drain Epidural and Paravertebral Abscesses of the Spine?”

Podium Presentation: NASS – October 2013

Poster Presentation: 23rd Annual Research Colloquium - Seton Hall University School of Health and Medical Sciences.

“Risk Factors for a Delay in Diagnosis of Vertebral Osteomyelitis.”

Podium Presentation: NASS – October 2013

Poster Presentation: SRS – September 2013

Poster Presentation: 23rd Annual Research Colloquium - Seton Hall University School of Health and Medical Sciences.

“Morbidity of Neurologic Deficits in Vertebral Osteomyelitis.”

Podium Presentation: Eastern Orthopaedic Association Annual Meeting - November 2013

Nominee – Best Clinical Paper

Poster Presentation: NASS – October 2013

Poster Presentation: 23rd Annual Research Colloquium - Seton Hall University School of Health and Medical Sciences.

“Selection Criteria And Early Peri-Operative Outcomes Of Minimally Invasive Transforaminal Interbody Fusion In The Outpatients Setting.”

Podium Presentation: Eastern Orthopaedic Association Annual Meeting – November 2013

“The Utility of Cultures in the Treatment of Osteomyelitis of the Spine.”

Poster Presentation: IMAST – July 2013

Poster Presentation: SRS – September 2013

Poster Presentation: NASS – October 2013

Poster Presentation: 23rd Annual Research Colloquium - Seton Hall University School of Health and Medical Sciences.

“Paraspinal Muscle Atrophy After Lumbar Surgery: What is the Evidence?”

Podium Presentation: NASS – October 2013

“A New Diagnostic Criteria for Pott’s Disease.”

Poster Presentation: IMAST – July 2013

Poster Presentation: NASS – October 2013

Poster Presentation: 23rd Annual Research Colloquium - Seton Hall University School of Health and Medical Sciences.

“Serum Lead Toxicity in Extraarticular Tibial Gunshot Injury”

Resident Podium Presentation: New Jersey Orthopaedic Society Annual meeting, 2012

Poster Presentation: 22rd Annual Research Colloquium - Seton Hall University School of Health and Medical Sciences.

“Metal Allergy in Total Knee Arthroplasty”

Resident Podium Presentation: New Jersey Orthopaedic Society Annual meeting, 2011

Poster Presentation: 21rd Annual Research Colloquium - Seton Hall University School of Health and Medical Sciences.

“Emergency Tracheostomy in Patients with Post-intubation Tracheal Stenosis: an Uncertain and Risky Practice.”

Podium Presentation: 18th Annual European Conference on General and Thoracic Surgery; 2010. (Valladolid, Spain)

Poster Presentation: National Research Institute of Tuberculosis and Lung Disease Annual Research Meeting, 2009 (Tehran Iran)

“MDMA Use is Associated with Increased Spatial BOLD fMRI Visual Cortex Activation”

Poster Presentation: Annual Frontiers of Biomedical Imaging Science Conference, 2006. Vanderbilt University (Nashville, TN)

“Effects of Estrogen Level on fMRI”

Poster Presentation: Annual Frontiers of Biomedical Imaging Science Conference, 2006. Vanderbilt University (Nashville, TN)

Other Activities

2013 – 2015	Seton Hall University School of Health and Medical Science Physician Assistant Program <i>Clinical Lecturer - Orthopaedics and Sports Medicine</i>	<i>South Orange, NJ</i>
2013 – 2015	Resident Advisory Committee	<i>Paterson, NJ</i>
2013 – 2015	Resident Ethics Committee	<i>Paterson, NJ</i>
2013 – 2014	North Jersey Developmental Center <i>Clinic Staff</i>	<i>Totowa, NJ</i>
2010 – present	Vanderbilt Volunteers – New York Metro chapter	<i>New York, NY</i>
2007	R.E.A.C.H. program National Research Institute for Tuberculosis and Lung Disease of Iran	<i>Tehran, Iran</i>

Shahid Beheshti University of Medical Sciences and Health Services
Dept of Trauma and Thoracic Surgery – Dr. Abbasidezfouli
– *Emergency Tracheostomy in Post-intubation Tracheal Stenosis*

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| 2003 | Summer Undergraduate Research Program (SURP)
Mount Sinai Ichan School of Medicine
Department of Radiology – Laboratory of Dr. Isak Prohovnik
– <i>Fuzzy Cluster Analysis of fMRI in Induced Emotion</i> | <i>New York, NY</i> |
| 2001 | Summer Program in Neuroscience (SPIN)
University of Alabama at Birmingham
Department of Neurobiology – Laboratory of Dr. M. Friedlander
– <i>Created a transgenic mouse line with tagged downstream reporter molecule (eGFP) for type I nitric oxide synthase gene</i> | <i>Birmingham, AL</i> |
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Other Work Experience

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| 2011 – 2015 | Crossfit Meadowlands, LLC
<i>Founding partner; Operations Manager</i> | <i>Carlstadt, NJ</i> |
| 2001 – 2010 | Purity Biking Company
<i>Co-Founder</i>
Designed and machined specialized BMX bicycle parts and apparel | <i>Wallington, NJ</i> |
| 2005 – 2006 | Kaplan Medical
<i>Teacher – MCAT</i> | <i>Nashville, TN</i> |
| 2004 – 2006 | Vanderbilt University Institute of Imaging Science
<i>Research Associate</i> | <i>Nashville, TN</i> |
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Languages: Farsi, English