

Curriculum Vitae

Mohamed M. Abdulhamid, M.D

Work Address:

The Royal Institute for Advanced Spine Surgery, LLC
5415 E. High Street, Suite 105
Phoenix, AZ 85054

Tel: 480-282-8485
Dir: 480-648-8894
Fax: 480-323-2227

DrA@RoyalSpineSurgery.com

Personal Information:

Citizenship: U.S.A.

Languages: English, Arabic.

Hobbies/Interests: Traveling, Photography, Football, Basketball, Soccer, Tennis, Boxing, MMA, Dining out, Movies, Reading, Fine Arts.

Work Experience:

President
Neurosurgery
Sonospine - Scottsdale, AZ
Scottsdale, AZ
03/2018 — Current

CEO & Founder
Neurosurgery, Minimally invasive and complex spine surgery.
The Royal Institute for Advanced Spine Surgery, LLC.
Scottsdale, AZ
01/2016 – Current

Medical Staff – Neurosurgeon:
Neurosurgery, Minimally invasive and complex spine surgery.
HonorHealth John C. Lincoln Medical Center. Phoenix, AZ
09/2013 – Current



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Medical Staff – Neurosurgeon:
Neurosurgery, Minimally invasive and complex spine surgery.
HonorHealth Deer Valley Medical Center. Phoenix, AZ
09/2013 – Current

Medical Staff – Neurosurgeon:
Neurosurgery, Minimally invasive and complex spine surgery.
HonorHealth Scottsdale Thompson Peak Medical Center.
Scottsdale, AZ
02/2014 – Current

Medical Staff – Neurosurgeon:
Neurosurgery, Minimally invasive and complex spine surgery.
The Minimally Invasive Spine Surgery Center of Paradise Valley.
Phoenix, AZ
05/2014 – Current

Medical Staff – Neurosurgeon:
Neurosurgery, Minimally invasive and complex spine surgery.
Arizona Brain & Spine Center.
Scottsdale, AZ
09/2013 – 08/2017

Medical Staff – Neurosurgeon:
Neurosurgery, Minimally invasive and complex spine surgery.
North Valley Surgery Center.
Scottsdale, AZ
06/2016 – Current

Medical Staff – Neurosurgeon:
Neurosurgery, Minimally invasive and complex spine surgery.
The Surgery Center of Scottsdale.
Scottsdale, AZ
08/2016 – Current

Medical Training:

Fellowship:

Spine surgery fellowship - Jackson Memorial Hospital
Department of Neurosurgery at the University of Miami Miller
School of Medicine. Miami, FL.
July 1, 2012 – June 30, 2013



Chief Resident: Department of Neurosurgery at SUNY Upstate Medical University.
Syracuse, NY.
June 11, 2011 – June 15, 2012.

Residency: Department of Neurosurgery at SUNY Upstate Medical University.
Syracuse, NY.
July 1, 2006 – June 10, 2011.

Internship: Department of General Surgery at SUNY Upstate Medical
University. Syracuse, NY.
July 1, 2005 – June 30, 2006.

Education:

Medical: University of Iowa Carver College of Medicine. Iowa City, IA.
Degree: M.D.
08/2001 – 05/2005.

Undergraduate: Iowa State University. Ames, IA.
Degree: B.S. in Biochemistry.
08/1997 – 08/2001.

The Institute for Language and Academic Preparation for Foreign
Students, an affiliate of the Faculty of Medicine at Comenius
University. Senec, Slovak Republic.

Degree: Pre-Med.
09/1996 – 06/1997.

Licenses, Boards and Certifications:

Licenses: Arizona Medical Board, State of Arizona.
License 47075
Issued: December 10, 2012
Status: Active

*Boards and
Certifications:* American Board of Neurological Surgery (ABNS):
Written Exam: March 2009.
Eligibility Status: Board Eligible



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United States Medical Licensing Examinations (USMLE)

Step 1: 06/2003.
Step 2 (CK): 08/2004.
Step 2 (CS): 02/2005.
Step 3: 04/2010.

Professional Appointments:

Residency: Neurosurgery Chief Resident at SUNY Upstate Medical University
Syracuse, NY.

06/2011 – 06/2012.

Neurosurgery Resident in Charge at St. Joseph's Hospital.
Syracuse, NY.

07/2010 – 09/2010.

Rotating Neurosurgery Resident at Children's Hospital Boston,
Department of Neurosurgery at Brigham and Women's Hospital,
Boston, MA. (pediatric neurosurgery rotation).

01/2010 – 03/2010.

Teaching Assistant for Neuroanatomy Lab Course N624 at SUNY
Upstate Medical University College of Medicine. Syracuse, NY.

Spring 2009.

Spine Research Fellow at the Institute for Human Performance,
Department of Neurosurgery at SUNY Upstate Medical University.
Syracuse, NY.

07/2008 – 06/2010.

Neurosurgery Resident in Charge at the Veterans Affairs Medical
Center and Crouse, Irvine, Memorial Hospital. Syracuse, NY.

10/2010 – 12/2010.

07/2007 – 04/2008.

Clinical Instructor. Department of Neurosurgery at SUNY Upstate
Medical University. Syracuse, NY.

07/2006 – 06/2012.



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Internship: Clinical Instructor. Department of General Surgery at SUNY Upstate Medical University. Syracuse, NY.
07/2005 – 06/2006.

Medical School: Assistant Instructor of Foundation of Clinical Practice II at University of Iowa Carver College of Medicine. Iowa City, IA.
Spring 2005.

Professional Affiliations:

2009 Intraoperative Imaging Society (IOIS).
2008 North American Spine Society (NASS).
2006 Congress of Neurological Surgeons (CNS).
2006 American Association of Neurological Surgeons (AANS).
2002 Student National Medical Association (SNMA).
2001 American Medical Association (AMA).
2001 American Medical Student Association (AMSA).

Honor Societies and Awards:

Honor Societies:

2000 Phi Beta Kappa.
1999 Phi Kappa Phi.
1999 Golden Key National Honor Society.

Awards:

Residency: The New York State Neurosurgical Society Annual Meeting Award for the Best Basic Science Research Talk by a Resident.
New Rochelle, NY. 06/2009.

The Arnold P. Gold Foundation Humanism and Excellence in Teaching Award. SUNY Upstate Medical University.
Syracuse, NY. 06/2007.

Medical School: Communities for Excellence in Learning and Leadership for Society Award. 04/2004.

Medical Student Summer Research Fellowship Award. 08/2002.

Undergraduate: High Scholarship Student, Top 2% of the Class Award.
College of Liberal Arts and Sciences. 1999 and 2000.



The Dexter French Scholarship Award.
College of Liberal Arts and Sciences.
Department of Biochemistry, Biophysics and Molecular Biology.
1999 and 2000.

The Office of Minority Student Affairs Award for Academic
Excellence.
College of Liberal Arts and Sciences. *1999.*

Courses and Workshops:

Congress of Neurological Surgeons 3D Surgical Anatomy Course.
St. Louis, MO
08/2010.

The Chicago Review Course in Neurological Surgery.
Chicago, IL.
02/2009.

Neuroscience N623 – Systems Neuroscience Course.
College of Graduate Studies at SUNY Upstate Medical University.
Syracuse, NY.
Fall 2008.

The Research Update in Neuroscience for Neurosurgeons (RUNN)
Course.
Woods Hole, MA.
10/2008.

How to Get Your Proposal Funded Workshop.
The Research Foundation of the State University of New York.
Amherst, NY.
10/2008.

The Walter Grand Neuroendoscopy Workshop.
Department of Neurosurgery at the University at Buffalo.
Buffalo, NY.
08/2008.



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Uniformed Services University of the Health Sciences (USUHS).
The 20th Annual International Bethesda Spine Workshop.
Cervical and Thoracolumbar Spine Courses.
Bethesda, MD.
04/2008.

Armed Forces Institute of Pathology (AFIP).
The 23rd Annual Neuroradiology and the 46th Annual
Neuropathology Courses.
Denver, CO.
02/2008.

Research and Publications:

Journal Articles:

- Abdulhamid, Mohamed M.; Li, Yan M.; Moquin, Ross R. **Evaluating the antimicrobial efficacy of copper against the growth of *Escherichia coli* and *Staphylococcus aureus* in vitro.** (Manuscript submitted)
- Abdulhamid, Mohamed M.; Li, Yan M.; Singla, Amit; Moquin, Ross R. **A case series review comparing the rate of revision surgery for malpositioned screws placed manually versus with the O-Arm® image guidance navigation.** (Manuscript submitted)
- Cantu, Robert C.; Li, Yan M.; Abdulhamid, Mohamed M.; Chin, Lawrence S. **Return to play after cervical spine injury in sports.** J Current Sports Medicine Reports. 2013 Jan/Feb; 12(1):14-17.
- Abdulhamid, Mohamed M.; Li, Yan M; Hall, Walter A. **Spontaneous acute subdural hematoma as the initial manifestation of chronic myeloid leukemia.** J Neurooncol. 2011 Feb;101(3):513-6.
- Karimi, Mohsen; Wang, Li Xing; Hammel, James M.; Mascio, Christopher E.; Abdulhamid, Mohamed M.; Barner, Eles W.; Scholz, MD, Thomas D.; Segar, Jeffrey L.; Li, Wei G.; Niles, Scott D.; Caldaroni, Christopher A. **Neonatal vulnerability to ischemia and reperfusion: Cardioplegic arrest causes greater myocardial apoptosis in neonatal lambs than in mature lambs.** J Thorac Cardiovasc Surg. 2004 Feb; 127(2):490-7.



Podium Talks:

- Abdulhamid, Mohamed M. **Coflex Interlaminar Stabilization Device; an Alternative Surgical Option for Lumbar Spinal Stenosis.** 1st Sudanese Spine Society Conference/3rd Arab Spine Annual Conference; 2017 Feb 17-19; Khartoum, Sudan.
- Abdulhamid, Mohamed M. **Minimally Invasive Lumbar Microdiscectomy.** 1st Sudanese Spine Society Conference/3rd Arab Spine Annual Conference; 2017 Feb 17-19; Khartoum, Sudan.
- Abdulhamid, Mohamed M. **Cervical Artificial Disc: From Past to Present.** 14th Annual Spine, Orthopedic and Pain Management-Drive ASC Conference and the Future of Spine; 2016 June 9-11; Chicago, IL.
- Abdulhamid, Mohamed M.; Singla, Amit; Blaskiewicz, Donald J.; Yusupov, Igor R.; Moquin, Ross R. **The Rate of Revision Surgery for Malpositioned Screws in Spine Surgery with Instrumentation: A Comparison Study Utilizing Intra-Operative O-Arm© Image Guidance Navigation [abstract].** 2nd Intraoperative Imaging Society Annual Meeting; 2009 June 14-17; Istanbul, Turkey. Abstract no. 31.
- Abdulhamid, Mohamed M.; Blaskiewicz, Donald J.; Yusupov, Igor R.; Kim, Peter D.; Moquin, Ross R. **Can the Use of Copper in Complex Spine Surgery with Metal Instrumentation and Fusion Result in a Reduced Risk of Postoperative Infections? Stage One: Efficacy of Copper Against the Growth of Escherichia Coli in Vitro.** The New York State Neurosurgical Society Annual Meeting; 2009 June 5; New Rochelle, NY.
- Yusupov, Igor; Blaskiewicz, Donald; Abdulhamid, Mohamed; Kim, Peter; Jennings, Jennifer; Moquin, Ross; Carter, David. **Clinical and Radiographic Features of Subdural Hematomas Successfully Treated with Subdural Evacuating Port System [abstract].** 77th AANS Annual Meeting; 2009 May 2 - 6; San Diego, CA.
- Abdulhamid, Mohamed M.; Blaskiewicz, Donald J.; Yusupov, Igor R.; Kim, Peter D.; Moquin, Ross R. **Can the Use of Copper in Complex Spine Surgery with Metal Instrumentation and Fusion Result in a Reduced Risk of Postoperative Infections? Stage One: Efficacy of Copper Against the Growth of Escherichia Coli in Vitro.** The

Neuroscience Research Day, SUNY Upstate Medical University, Department of Neurosurgery; 2009 March 13; Syracuse, NY.

- Karimi, Mohsen; Wang, Li Xing; Hammel, James M.; Mascio, Christopher E.; Abdulhamid, Mohamed M.; Barner, Eles W.; Scholz, MD, Thomas D.; Segar, Jeffrey L.; Li, Wei G.; Niles, Scott D.; Caldarone, Christopher A. **Neonatal vulnerability to ischemia and reperfusion: Cardioplegic arrest causes greater myocardial apoptosis in neonatal lambs than in mature lambs [abstract]**. 83rd Annual Meeting of The American Association for Thoracic Surgery; 2003 May 4-7; Boston, MA.
- Abdulhamid, Mohamed M.; Karimi, Mohsen; Mascio, Christopher E.; Wang, Li Xing; Caldarone, Christopher A. **Quantitative measurements of cytochrome c release in cardioplegic, ischemic-reperfused neonatal sheep myocardium [abstract]**. The University of Iowa Carver College of Medicine Annual Medical Student Research Day; 2002 September 13; Iowa City, IA.

Abstracts:

- Abdulhamid, Mohamed M. **Motion-Preservation Interlaminar Stabilization Device for Lumbar Spinal Stenosis: Technical Aspects [abstract]**. 16th Dubai Spine Conference; 2015 April 11-13; Dubai, United Arab Emirates.
- Abdulhamid, Mohamed M.; Blaskiewicz, Donald J.; Yusupov, Igor R.; Kim, Peter D.; Moquin, Ross R. **Can the Use of Copper in Spine Surgery with Instrumentation Result in a Reduced Risk of Postoperative Infections? Stage One: Efficacy of Copper Against the Growth of Escherichia Coli in Vitro [abstract]**. 24th NASS Annual Meeting; 2009 November 10-14; San Francisco, CA. Abstract no. 22.
- Abdulhamid, Mohamed M.; Blaskiewicz, Donald J.; Yusupov, Igor R.; Kim, Peter D.; Moquin, Ross R. **The Anti-microbial Activity of Copper Against the Growth of Micrococcus Luteus in Vitro: An Investigation for the Potential Use of Copper in Spine Surgery with Instrumentation to Reduce the Risk of Postoperative Infections from Gram Positive Organisms [abstract]**. 59th CNS Annual Meeting; 2009 October 24-29; New Orleans, LA. Abstract no. 454.



- Singla, Amit; Yusupov, Igor; Padalino, David; Blaskiewicz, Donald; Abdulhamid, Mohamed; Carter, David; Jennings, Jennifer; Jacobsen, Walter; Li, Yan; Kim, Peter. **Treatment of Non-Acute Subdural Hematomas with Subdural Evacuating Port System [abstract]**. 59th CNS Annual Meeting; 2009 October 24-29; New Orleans, LA. Abstract no. 585.
- Abdulhamid, Mohamed M.; Blaskiewicz, Donald J.; Singla, Amit; Yusupov, Igor R.; Moquin, Ross R. **The Use of Intra-Operative O-Arm® and Navigation in Odontoid Screw Placement: Advantages Over Conventional Fluoroscopy [abstract]**. 2nd Intraoperative Imaging Society Annual Meeting; 2009 June 14-17; Istanbul, Turkey. Abstract no. 4.
- Blaskiewicz, Donald J.; Abdulhamid, Mohamed M.; Jacobsen, Walter P.; Kim, Peter D.; Yusupov, Igor R.; Murtagh-Schaffer, Catherine; Moquin, Ross R. **Intra-Operative Spinal Navigation Using the O-Arm® and StealthStation® Treon® Image Guidance Work-Station: A Technical Note [abstract]**. 25th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves; 2009 March 11-14; Phoenix, AZ. Abstract no. 476.
- Blaskiewicz, Donald J.; Abdulhamid, Mohamed M.; Yusupov, Igor R.; Jacobsen, Walter P.; Kim, Peter D.; Canute, Gregory W.; Murtagh-Schaffer, Catherine; Moquin, Ross R. **O-ARM Assisted Minimally Invasive TLIF with Percutaneous Sextant Pedicle Screw Placement [abstract]**. 25th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves; 2009 March 11-14; Phoenix, AZ. Abstract no. 474.
- Blaskiewicz, Donald J.; Jacobsen, Walter P.; Abdulhamid, Mohamed M.; Kim, Peter D.; Yusupov, Igor R.; Li, Yan M.; Murtagh-Schaffer, Catherine; Moquin, Ross R. **Spinal Wound Infection Avoidance: Identification of Risk Factors Associated with Post-operative Spinal Infections [abstract]**. 25th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves; 2009 March 11-14; Phoenix, AZ. Abstract no. 452.

- Yusupov, Igor R.; Blaskiewicz, Donald J.; Abdulhamid, Mohamed M.; Moquin, Ross R. **Utility of Ceramic Compounds in Spine Surgery [abstract]**. 25th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves; 2009 March 11-14; Phoenix, AZ. Abstract no. 501.
- Blaskiewicz, Donald J.; Yusupov, Igor R.; Jacobsen, Walter P.; Abdulhamid, Mohamed M.; Murtagh-Schaffer, Catherine; Moquin, Ross R. **O-ARM Assisted Fixation of Type II Odontoid Fractures via the Direct Anterior Approach [abstract]**. 25th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves; 2009 March 11-14; Phoenix, AZ. Abstract no. 453.
- Blaskiewicz, Donald J.; Yusupov, Igor R.; Abdulhamid, Mohamed M.; Moquin, Ross R. **Anterior Cervical Interbody Fusion with Patella Allograft [abstract]**. 76th AANS Annual Meeting; 2008 April 26 - May 1; Chicago, IL.
- Karimi, Mohsen; Wang, Li Xing; Hammel, James M.; Mascio, Christopher E.; Abdulhamid, Mohamed M.; Barner, Eles W.; Scholz, MD, Thomas D.; Segar, Jeffrey L.; Li, Wei G.; Niles, Scott D.; Caldarone, Christopher A. **Neonatal vulnerability to ischemia and reperfusion: Cardioplegic arrest causes greater myocardial apoptosis in neonatal lambs than in mature lambs [abstract]**. 83rd Annual Meeting of The American Association for Thoracic Surgery; 2003 May 4-7; Boston, MA.