

Curriculum Vitae
Marc D. Moisi, MD
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Bloomfield Hills, MI 48304

Address: Bloomfield Hills, MI
Date of Birth: May 2, 1978
Place of Birth: Bucharest, Romania
Place of Residence: Detroit, MI

Undergraduate Education:

New York University College of Arts and Sciences
Degree: Bachelor of Arts, May 2000
Major: Chemistry and Mathematics
Honors: Sokol Chemistry Scholar
Dean's Summer Undergraduate Research Fellowship (1998)

Graduate Education:

Columbia University School of Engineering and Applied Science
Degree: Master of Science, August 2001
Major: Medical Physics
Practicum: Columbia University Department of Radiation Oncology
Columbia University Department of Nuclear Medicine
Memorial Sloan Kettering Cancer Center Dept of Brachytherapy

Medical Education:

New York University School of Medicine
Degree: Doctor of Medicine, May, 2005
Honors:
Clerkship Award for Outstanding Essay in Pathophysiology of Disease

Student Activities:

Vice-President, Surgery Club, 2002-2003
Senior Advisor, Surgery Club 2003-2004
President and Co-Founder, Medical Physics Club, 2002-2004

Post-Graduate Training

New York Presbyterian Hospital- Cornell University New York, NY- General Surgery
Internship
June 2005-June 2006
The Methodist Hospital Houston, TX- Neurological Surgery Resident
July 2006-June 2012
The University of Texas Medical Branch Galveston, TX- Neurosurgery Research Fellow
September 2012-June 2013
Swedish Neuroscience Institute Seattle, WA- Complex and Minimally Invasive Spine
Fellowship/ Administrative Fellow
July 2013-June 2014
Swedish Neuroscience Institute Seattle, WA- Brain and Spine Tumor Fellowship/
Administrative Fellow

July 2014-June 2015
Swedish Neuroscience Institute Seattle, WA– Brain Tumor and Spine Tumor Fellowship/
Administrative Fellow
July 2015-June 2016
Wayne State University- Neurological Surgery Resident
July 2016- June 2017

Clinical Appointments

<u>Chief of Neurosurgery</u> Department of Neurosurgery Detroit Receiving Hospital, Detroit, MI	October 2017-October 2020
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Academic Appointments

<u>Assistant Professor</u> Department of Neurosurgery Wayne State University School of Medicine, Detroit, MI	August 2017-November 2018
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Hospital Affiliations

<u>Staff Neurosurgeon</u> Department of Neurosurgery Detroit Receiving Hospital, Detroit, MI	October 2017-Present
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<u>Staff Neurosurgeon</u> Department of Neurosurgery Harper Hospital, Detroit, MI	October 2017-Present
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<u>Staff Neurosurgeon</u> Department of Neurosurgery Children's Hospital of Michigan, Detroit, MI	October 2017-Present
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<u>Staff Neurosurgeon</u> Department of Neurosurgery Sinai-Grace Hospital, Detroit, MI	October 2017-Present
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<u>Staff Neurosurgeon</u> Department of Neurosurgery Huron-Valley Hospital, Detroit, MI	October 2017-Present
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<u>Staff Neurosurgeon</u> Department of Neurosurgery Rehabilitation Institute of Michigan, Detroit, MI	October 2017-Present
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<u>Staff Neurosurgeon</u> Department of Neurosurgery	November 2017-Present
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Karmanos Cancer Center, Detroit, MI

Staff Neurosurgeon

March 2018-March 2019

Department of Neurosurgery

McLaren- Oakland Hospital, Pontiac, MI

Staff Neurosurgeon

March 2020-Present

Department of Neurosurgery

St Mary's Hospital, Livonia, MI

Board Certification

American Board of Neurological Surgery Board Examination (Primary Examination)
2010

Active Medical License

1. Washington
2. Texas
3. Michigan

Awards:

1. Most Engaged Physician- Detroit Receiving Hospital- February 2018.
2. Metro Detroit TopDoc List 2020- Hour Detroit Magazine

Publications:

1. Shah M, Halalmeh DR, Sandio A, Tubbs RS, **Moisi MD**. "Anatomical Variations That Can Lead to Spine Surgery at the Wrong Level: Part III Lumbosacral Spine." *Cureus*. 2020;12(7):e9433. Published 2020 Jul 28.
2. Shah M, Halalmeh DR, Sandio A, Tubbs RS, **Moisi MD**. "Anatomical Variations That Can Lead to Spine Surgery at The Wrong Level: Part II Thoracic Spine." *Cureus*. 2020;12(6):e8684. Published 2020 Jun 18.
3. Shah M, Halalmeh DR, Sandio A, Tubbs RS, **Moisi MD**. "Anatomical Variations That Can Lead to Spine Surgery at the Wrong Level: Part I, Cervical Spine." *Cureus*. 2020;12(6):e8667. Published 2020 Jun 17.
4. Blecher R, Yilmaz E, Ishak B, von Glinski A, **Moisi M**, Oskouian RJ, Dettori J, Kramer M, Drexler M, Chapman JR. "Uptrend of cervical and sacral fractures underlie increase in spinal fractures in the elderly, 2003-2017: analysis of a state-wide population database" [published online ahead of print, 2020 Jun 23]. *Eur Spine J*. 2020;10.1007/s00586-020-06498-1.

5. Kolb B, Peterson C, Fadel H, Yilmaz E, Waife K, Tubbs RS, Rajah G, Walker B, Diaz V, **Moisi M**. "The 25 most cited articles on lateral lumbar interbody fusion: short review." *Neurosurg Rev*. 2020 Jan 23.
6. Shah M, Peterson C, Yilmaz E, Halalmeh DR, **Moisi M**. "Current advancements in the management of spinal cord injury: A comprehensive review of literature." *Surg Neurol Int*. 2020 Jan 3;11:2.
7. Joshi N, Klinger N, Halalmeh DR, Tubbs RS, **Moisi MD**. "The Neural Sulcus of the Cervical Vertebrae: A Review of Its Anatomy and Surgical Perspectives." *Cureus*. 2020 Jan 18;12(1):e6693. doi: 10.7759/cureus.6693.PMID: 32104629
8. Hopkins S, Brune P, Chapman JR, Horton M, Oskouian R, Patel A, **Moisi MD**. "Quality and Clinical Care Development in Spine Surgery-Connecting the Dots: An Expanded Clinical Narrative." *Global Spine J*. 2020 Jan;10(1 Suppl):10S-16S.
9. Halalmeh DR, Klinger N, Azad S, Fadel H, **Moisi MD**. "Delayed Cerebral Ischemia of the Corpus Callosum: A Case Report." *Cureus*. 2019 Dec 13;11(12):e6379.
10. Klinger N, Yilmaz E, Halalmeh DR, Tubbs RS, **Moisi MD**. "Reattachment of the Multifidus Tendon in Lumbar Surgery to Decrease Postoperative Back Pain: A Technical Note." *Cureus*. 2019 Dec 12;11(12):e6366.
11. Shah M, Kolb B, Yilmaz E, Halalmeh DR, **Moisi MD**. "Comparison of Lumbar Laminectomy Alone, Lumbar Laminectomy and Fusion, Stand-alone Anterior Lumbar Interbody Fusion, and Stand-alone Lateral Lumbar Interbody Fusion for Treatment of Lumbar Spinal Stenosis: A Review of the Literature." *Cureus*. 2019 Sep 18;11(9):e5691.
12. Chandra A, Moon SJ, Walker B, Yilmaz E, **Moisi M**, Johnson R. "Postoperative intracranial migration of a C2 odontoid screw: A case report and literature review." *Surg Neurol Int*. 2019 Sep 10.
13. Brash A, Halalmeh DR, Rajah G, Loya J, **Moisi M**. "Operative Intervention for Lumbar Foraminal Gunshot Wounds: Case Report and Review of the Literature." *Cureus*. 2019 Jul 29.
14. Huang S, Kappel AD, Peterson C, Chamiraju P, Rajah GB, **Moisi MD**. "Cervical spondylodiscitis caused by *Candida albicans* in a non-immunocompromised patient: A case report and review of literature." *Surg Neurol Int*. 2019 Aug 2.
15. Fadel H, Moon SJ, Klinger NV, Chamiraju P, Eltahawy HA, **Moisi MD**, Guthikonda M. "Candida parapsilosis Infection of Ventriculoperitoneal Shunt in Adult: Case Report and Literature Review." *World Neurosurg*. 2018 Nov;119:290-293.
16. Peterson C, Garling R, Yilmaz E, Haridas A, Tubbs RS, **Moisi M**. "Delayed Diagnosis of a fractured anterior arch of an atlas of a child" *Interdisciplinary Neurosurgery*: 14: 191-194.
17. Emre Yilmaz, Ronen Blecher, **Marc Moisi**, Ankush Chandra, Thomas O'Lynnger, Amir Abdul-Jabbar, Joseph Dettori, Rod Oskouian "Is there Optimal Wound Closure Technique for Major Posterior Spine Surgery? A Systematic Review" *Global Spine Journal* 2018, pgs 1-10.
18. Blecher R, Yilmaz E, **Moisi M**, Oskouian RJ, Chapman J "Extreme Lateral Interbody Fusion Complicated by Fungal Osteomyelitis: Case Report and Quick Review of the Literature." *Cureus*. 2018 May 31;10(5):e2719. (PMID: 30079285)

19. Chamiraju P, Moon SJ, Maddali P, **Moisi M**, Guthikonda M. "Laser assisted excision of coil mass while clipping recurrent intracranial aneurysms after prior endovascular coiling: our initial experience." *World Neurosurg.* 2018 Jun 30 (PMID: 29969741).
20. Kiyrie Simons, Aaron Raap, Emre Yilmaz, Dia Radi Halalmeh, **Marc Moisi** "Innervation of the Thoracolumbar Fascia and its Relationship to Lower Back Pain" *The Spine Scholar* April 30, 2018.
21. Iwanaga J, Yilmaz E, Tawfik T, Abdul-Jabbar A, Vetter M, **Moisi M**, Watanabe K, Yamaki KI, Tubbs RS, Oskouian RJ "Anatomical Study of the Extreme Lateral Transpsoas Lumbar Interbody Fusion with Application to Minimizing Injury to the Kidney." *Cureus.* 2018 Jan 29;10(1):e2123. (PMID: 29607271)
22. Yilmaz E, Iwanaga J, **Moisi M**, Blecher R, Abdul-Jabbar A, Tawfik T, Oskouian RJ, Tubbs RS "Risks of Colon Injuries in Extreme Lateral Approaches to the Lumbar Spine: An Anatomical Study." *Cureus.* 2018 Jan 29;10(1):e2122. (PMID:29607270)
23. Blecher R, Yilmaz E, Tawfik T, Abdul-Jabbar A, O'Lynnnger T, **Moisi M**, Hart R, Hanscom D, Oskouian RJ, Tubbs RS, Chapman J. "Cervico-thoracic Interspinous Bursitis Associated with Bilateral Upper-extremity Numbness: A Case Report." *Cureus.* 2017 Nov 30;9(11):e1897. (PMID:29399425)
24. Fisahn C, Schmidt C, Rustagi T, **Moisi M**, Iwanaga J, Norvell DC, Tubbs RS, Schildhauer TA, Chapman JR. "Comparison of Chronic Dysphagia in Standalone versus Conventional Plate and Cage Fusion." *World Neurosurg.* 2018 Jan. (PMID:28987856)
25. Hassan Fadel, Neil Klinger, Patrick Beer, Farzana Tariq, Chelsea Smith, Susan Seman, Justin Hugelier, Michael Zwillman, **Marc Moisi**, Robert Johnson "Aortic Stenting and Thoracolumbar Fusion after Traumatic ASIA A Thoracic Dislocation" *The Spine Scholar* Vol 1, Number 2, 2017.
26. Aaron Rapp, Manan Shah, Lara Tkachenko, **Marc D. Moisi**, R Shane Tubbs "The Paraspinal Wiltse Approach to the Lumbar Spine: A Literature Review and Anatomical Guide" *The Spine Scholar* Vol 1, Number 2, 2017.
27. Matthew Protas, Charlotte Wilson, **Marc Moisi**, Joe Iwanaga, R. Shane Tubbs "Collateral Circulation of the Spinal Cord: A Review" *The Spine Scholar* Vol1, Number 2, 2017.
28. Ronen Blecher , Emre Yilmaz, Tamir Tawfik, Amir Abdul-Jabbar, Thomas O'Lynnnger, **Marc Moisi**, Robert Hart, David Hanscom, Rod J. Oskouian, R. Shane Tubbs, Jens Chapman "Cervico-thoracic Interspinous Bursitis Associated with Bilateral Upper-extremity Numbness: A Case Report" *Cureus* 9(11): e1897.
29. Emre Yilmaz , Joe Iwanaga, **Marc Moisi**, Ronen Blecher, Amir Abdul-Jabbar, Tamir Tawfik, Rod J. Oskouian, R. Shane Tubbs. "Risks of Colon Injuries in Extreme Lateral Approaches to the Lumbar Spine: An Anatomical Study" *Cureus* 10(1): e2122.
30. Joe Iwanaga, Emre Yilmaz, Tamir Tawfik, Amir Abdul-Jabbar, Marc Vetter , **Marc Moisi**, Koichi Watanabe, Koh-ichi Yamaki, R. Shane Tubbs, Rod J. Oskouian "Anatomical Study of the Extreme Lateral Transpsoas Lumbar Interbody Fusion with Application to Minimizing Injury to the Kidney" *Cureus* 10(1): e2123.
31. Elswick C, Walker B, **Moisi M**, Diaz V, Page J, Hugelier J, Fisahn C, Tubbs RS, Salas S.

- “Congenital Agenesis of the C6 Pedicle Leading to Misdiagnosis of a Traumatically Jumped Facet: A Case Report.” *Cureus*. 2017 Aug 28;9(8) (PMID: 29098129)
32. Peterson C, Elswick C, Diaz V, Tubbs RS, **Moisi M**. “Delayed Presentation of Cerebral Air Embolism from a Left Atrial-Esophageal Fistula: A Case Report and Review of the Literature.” *Cureus*. 2017 Nov 15;9(11). (PMID: 29348993).
 33. Matthew Protas, Michele Davis, Shenell Berard, Fernando Alonso, **Marc Moisi**, Rod J Oskouian, Marios Loukas, R Shane Tubbs “Sacroiliac Screw Fixation: A Systematic Review of Complications and their Causes” *The Spine Scholar* Volume 1 Issue 1 Sept 2017.
 34. Peter Grunert, Doniel Drazin, Joe Iwanaga, Cameron Schmidt, Fernando Alonso, **Marc Moisi**, Jens R. Chapman, Rod J. Oskouian, R Shane Tubbs “Injury to the Lumbar Plexus and its Branches following Lateral Fusion Procedures: a Cadaver Study” *World Neurosurgery* June 2017 (PMID: 28619496)
 35. Christian Fisahn, Shiveindra Jeyamohan, Daniel C. Norvell, R Shane Tubbs, **Marc Moisi**, Jens Chapman, Jeni Page, Rod Oskouian “Association between Allogeneic Blood Transfusion and Postoperative Infection in Major Spine Surgery” *Clinical Spine Surgery* (PMID: 28452795).
 36. R. Shane Tubbs, Joe Iwanaga, Islam Aly, **Marc Moisi**, David R. Hanscom, Jens R. Chapman, Marios Loukas, Rod Oskouian “Extraforaminal Compression of the L5 Nerve: An Anatomical Study with Application to Failed Posterior Decompressive Procedures” *Journal of Clinical Neuroscience* April 2017 (PMID: 28408248).
 37. Tubbs RI, Gabel B, Jeyamohan S, **Moisi M**, Chapman JR, Hanscom RD, Loukas M, Oskouian RJ, Tubbs RS “Relationship of the lumbar plexus branches to the lumbar spine: anatomical study with application to lateral approaches” *Spine J*. 2017 March (PMID: 28365495).
 38. Prasanthi Maddali , Blake Walker , Christian Fisahn , Jeni Page , Vicki Diaz , Michael E. Zwillman , Rod J. Oskouian , R. Shane Tubbs , **Marc Moisi** "Subdural Thoracolumbar Spine Hematoma after Spinal Anesthesia: A Rare Occurrence and Literature Review of Spinal Hematomas after Spinal Anesthesia." *Cureus* 9(2): e1032 (PMID: 28357164).
 39. **Marc Moisi**, Christian Fisahn, Lara Tkachenko, Shiveindra Jeyamohan, Stephen Reintjes, Peter Grunert, Daniel C. Norvell, R Shane Tubbs, Jeni Page, David Paulson, David Newell, Peter Nora, Rod Oskouian, Jens Chapman “Posterior Arch C1 Screw Technique: A Cadaveric Comparison Study *JNS Spine* June 2017 Cover article (PMID: 28304240).
 40. Fisahn C, Montalbano MJ, Iwanaga J, **Moisi M**, Loukas M, Chapman JR, Oskouian RJ, Tubbs RS. “A new superficial landmark for the odontoid process: a cadaveric study” *Anat Sci Int*. 2017 Feb (PMID: 28176269).
 41. Maddali P, **Moisi M**, Page J, Chamiraju P, Fisahn C, Oskouian R, Tubbs RS “Anatomical complications of epidural anesthesia: A comprehensive review” *Clin Anat*. 2017 Feb (PMID: 28165638).
 42. **Marc D. Moisi, MD**, Kimberly Hoang, MD, Christian Fisahn, MD, Patrick Buchanan, MD, Daniel Klinger, MD, R. Shane Tubbs, PhD, Jeni Page, NP, Charles Cobbs, MD, Douglas Backous, MD, Johnny Delashaw, MD "Advancement of Surgical Visualization Methods: A Comparison Study between Traditional Microscopic Surgery, the Endoscope and a Novel Robotic Optoelectronic Visualization Tool for the

- Transnasal Transphenoidal Approach to the Sellar Region" *Journal of Spine and Neurosurgery* Volume 6 Issue 2.
43. Christian Fisahn, Felipe Hada Sanders, **Marc Moisi**, Jeni Page, Peter C. Oakes, Mary Wingerson, Joe Dettori, R. Shane Tubbs, Parthasarathi Chamiraju, Peter Nora, David Newell, Johnny Delashaw, Rod J. Oskouian, Jens R. Chapman "Descriptive Analysis of Unplanned Readmission and Reoperation Rates after Intradural Spinal Tumor Resection" *Journal of Clinical Neuroscience* Jan 2017 (PMID: 28089196)
 44. Christian Fisahn, Mirko Aach, Oliver Jansen, **Marc Moisi**, Angeli Mayadev, Krystie Pagarigan, Joseph Dettori, Thomas Schildhauer "The Effectiveness and Safety of Exoskeletons as Assistive and Rehabilitation Devices in the Treatment of Neurological Gait Disorders in Spinal Cord Injury Patients: A systemic review" *Global Spine Journal* 2016 Dec;6(8):822-841 (PMID: 27853668)
 45. **Marc D Moisi**, Kim Huang, R Shane Tubbs, Jeni Page, Christian Fisahn, David Paulson, Shiv Jeyamohan, Johnny Delashaw, David Hanscom, Jens Chapman, Rod Oskouian "Advancement of Surgical Visualization Methods: A Comparison Study between Traditional Microscopic Surgery and a Novel Robotic Optoelectronic Visualization Tool in Spinal Surgery" *World Neurosurgery* November 8, 2016 Epub ahead of print (PMID: 27836702)
 46. Randle Umeh, Christian Fisahn, Brittni Burgess, Joe Iwanaga, **Marc Moisi**, Rod J Oskouian, R. Shane Tubbs "Transforaminal Ligaments of the Lumbar Spine: A Comprehensive Review." *Cureus* 8(10): e811.
 47. Christian Fisahn, Lara Tkachenko, **Marc Moisi**, Stephen Rostad, Randle Umeh, Michael Zwillman, R Shane Tubbs, Jeni Page, David Newell, Johnny Delashaw "Herpes Simplex Encephalitis of the Parietal Lobe: A Rare Presentation." *Cureus* 8(9): e785 (PMID: 27774355).
 48. Christian Fisahn, **Marc Moisi**, Randle Umeh, Scott Sylvester, Prasanthi Maddali, Susan J. Tubbs, Rod J. Oskouian, Marios Loukas, R. Shane Tubbs "Unusual Manifestation of Superior Mesenteric Artery Syndrome in a Female Patient: A Case Presentation." *Cureus* 8(9): e800 (PMID:27833827).
 49. Christian Fisahn, **Marc D. Moisi**, Mary Wingerson, R Shane Tubbs, Charles Cobbs, Rod Oskouian, Jens Chapman "Cervical Fracture from Chronic Steroid Usage Presenting as a Stroke: A Case Report" *International Journal of Surgery Case Reports* Sept 2016; 28:1355-138 (PMID: 27701004).
 50. Christian Fisahn, Jaspreet Johal, **Marc Moisi**, Joe Iwanaga, Rod J Oskouian, Jens R Chapman, Richard S Tubbs "Detethering of the C2 nerve root and avoidance of transection and injury during C1 screw placement: A cadaveric feasibility study" *World Neurosurgery* October 2016 (PMID: 27744083)
 51. Christian Fisahn, Brittni Burgess, Joe Iwanaga, **Marc Moisi**, Rod Oskouian, Shane Tubbs, Jason Cormier "A previously undescribed variant of cervical rib structure related to a split cord malformation and review of the Literature" *Translational Research in Anatomy* August 2016 pp18-21.
 52. Tardieu G G, Fisahn C, Loukas M, **Moisi M**, Chapman J, Oskouian R, Tubbs R: The Epidural Ligaments (of Hofmann): A Comprehensive Review of the Literature. *Cureus* 8(9): e779 (PMID: 27752405).

53. R. Shane Tubbs, **Marc D. Moisi**, David R. Hanscom, Jens R. Chapman, Rod J. Oskouian "A New Landmark for Localizing the Site of the Subdental Synchondrosis Remnant: Application to Discerning Pathology from Normal on Imaging" World Neurosurgery Aug 2016 (PMID 27591099).
54. Sohun K Desai, Da'Marcus Baymon, Eric Sielhoff, Kenneth Maynard, **Marc Moisi**, Achal P. Patel, Joel T. Patterson "Computed Tomography Morphometric Analysis of the central clival depression and petroclival angle for application of the presigmoid approach in the pediatric population." Journal of Pediatric Neurosciences Volume 11 No 2 April-Jun 2016 pgs 109-111 (PMID: 27606016).
55. R. Shane Tubbs, Andre Granger, Marios Loukas, Christian Fisahn, Joe Iwanaga, **Marc Moisi**, David Paulson, Shiveindra Jeyamohan, Jens R. Chapman, Rod J. Oskouian "The Vertebral Artery Cave at C2: Anatomical Study with Application to C2 Pedicle Screw Placement" World Neurosurgery July 2016. (PMID: 27443230)
56. Aurora Cruz, BA, **Marc Moisi, MD**, Jeni Page, NP, R. Shane Tubbs, PhD, David Paulson, MD, Michael Zwillman, MD, Rod Oskouian, MD, Arthur Lam, MD, David Newell, MD "Venous Air Embolus during Prone Cervical Spine Fusion: A Case Report and Literature Review" JNS Spine Published online July 2016. (PMID: 27448172)
57. **Marc Moisi**, Christian Fisahn, R. Shane Tubbs, PhD, Jeni Page, Richard Rice, David Paulson, Noojan Kazemi, David Hanscom, Rod Oskouian, "Lateral thoracic osteoplastic rib-sparing technique used for lateral spine surgery: Technical Note" Cureus 8(7): e668.
58. **Marc Moisi, MD**, Aurora Cruz, BA, Tara L. Benkers, MD, Steven Rostad, MD, Frances Broyles, MD, Kevin C.J. Yuen, MD, Marc R. Mayberg, MD "Treatment of Aggressive Prolactin-Secreting Pituitary Adenomas With Adjuvant Temozolomide Chemotherapy" Cureus 8(6): e658. (PMID: 27489751)
59. **Marc D Moisi**, Christian Fisahn, Lara Tkachenko, R. Shane Tubbs, Daniel Ginat, Peter Grunert, Shiv Jeyamohan, Stephen Reintjes, Olaide Ajayi, Jeni Page, Rod Oskouian, David Hanscom "Unilateral laminotomy with spinal canal decompression for lumbar stenosis: a Technical Note" Cureus 8(5): e623 (PMID: 27433402)
60. Ajayi O, **Moisi M**, Chapman J, Oskouian R, Tubbs R "C2 Pedicle Screw Placement: A Novel Teaching Aid" Cureus 8(6): e630 (PMID: 27433409).
61. Aurora S. Cruz, Shiveindra Jeyamohan, **Marc Moisi**, R. Shane Tubbs, Jeni Page, Lara Tkachenko, Steven Rostad, David Newell "Dural-based cavernoma of the posterior cranial fossa mimicking a meningioma: A case report" Cureus 8(4): e560 (PMID: 27190725).
62. Namath S. Hussain, MD, **Marc D. Moisi, MD**, Bart Keogh, MD PhD, Brendan McCullough MD, Steven Rostad, MD, David Newell, MD, Ryder Gwinn, MD, Gregory Foltz, MD, Marc Mayberg, MD, Brian Aguedan, Valerie Good, Sarah J. Fouke, MD "Dynamic Susceptibility Contrast and Dynamic Contrast Enhanced MR Imaging Characteristics Distinguish Microcystic Meningiomas from Traditional Grade I Meningiomas and High Grade Gliomas" Journal of Neurosurgery June 2016 (PMID: 27285539).
63. Jeni Page ACNP-BC, **Marc Moisi MD**, Rod J Oskouian, MD "Lumbar Epidural Hematoma Following Interlaminar Fluoroscopically Guided Epidural Steroid

- Injection” Regional Anesthesia and Pain Medicine 2016 May-Jun;41(3):402-4. (PMID 26982079)
64. Olaide Ajayi, **Marc D Moisi**, Alireza Shoakazemi, R Shane Tubbs, Steven Rostad, David Newell “Atypical presentation of a sequestered postero-lateral disc fragment.” Cureus 8(2): e502 February 2016 (PMID: 27014536).
 65. Alizera Shoakazemi, **Marc D Moisi**, R Shane Tubbs, Mary Wingerson, Olaide Ajayi, Michael Zwillman, Jourdan Gottlieb, David Hanscom “Necrotizing fasciitis: a life threatening complication of intraoperative electromyography” Cureus 8(1): e468 January 2016 (PMID: 26973803).
 66. **Marc D Moisi**, R Shane Tubbs, Jeni Page, Alexandra Chapman, Brittni Burgess, Tyler Laws, Haylie Warren, Rod J Oskouian “Training medical novices in spinal microsurgery: does the modality matter? A pilot study comparing traditional microscopic surgery and a novel robotic optoelectronic visualization tool.” Cureus 8(1): e469 January 2016 (PMID: 26973804).
 67. Meng Huang, **Marc Moisi** , Michael E. Zwillman , John J. Volpi , Orlando Diaz , Richard Klucznik “Transient ischemic attack in the setting of carotid atheromatous disease with a persistent primitive hypoglossal artery successfully treated with stenting: A case report” Cureus 8(1): e464 January 2016 (PMID: 26929891).
 68. Meng Huang, Sean M. Barber, **Marc Moisi**, Suzanne Powell, Andreana Rivera, Michael Zwillman, James Rose “Cervical Epidural Hematoma after Chiropractic Spinal Manipulation Therapy in a Patient with an Undiagnosed Cervical Spinal Arteriovenous Malformation” Cureus 7(8):e307 August 2015 (PMID: 26430581).
 69. David Paulson, MD, Jeni Page ARNP, **Marc D Moisi, MD**, Rod J Oskouian, MD Commentary on “Remote Cerebellar Hemorrhage after Revision Lumbar Spine Surgery” Global Spine Journal 5(6): December 2015 (PMID: 2527889)
 70. **Marc Moisi, MD**, Jeni Page ACNP, Seymour Gahramanov, MD, Rod Oskouian, MD “Technical Note - Bullet Fragment of the Lumbar Spine: The decision is more important than the incision” Global Spine Journal 5(6): December 2015 (PMID: 26682104).
 71. **Marc Moisi, MD**, David Paulson, MD, Jeni Page ACNP, Rod Oskouian, MD “Technical Note – Lateral approach to the lumbar spine for the removal of interbody cages” Cureus 7(5) e268 May 2015 (PMID: 26180692).
 72. Daniel DiLorenzo, **Marc Moisi**, Jeni Page, Rod Oskouian “Comparison of the Clinical Outcome and Biomechanical Segmental Stability of Bilateral Laminotomy versus Bilateral Facet-Sparing Laminectomy in the Treatment of Spinal Stenosis” Global Spine Journal May 2015, A050.
 73. Taoufik Wassar, Tam’s Luspay, Kallu R. Upendar, **Marc Moisi**, Richard B. Voigt, Nicole R. Marques, Muzna N. Khan, Karolos M. Grigoriadis, Matthew A. Franchek, and George C. Kramer “Automatic control of arterial pressure for hypotensive patients using phenylephrine” International Journal of Modeling and Simulation Volume 34 2014 Issue 4.
 74. **Marc D Moisi**, Jeni Page, Rod J Oskouian: Commentary on "Lumbar intervertebral discal cyst: a rare cause of low back pain and radiculopathy. Case Report and review of the current evidences on diagnosis and management." Evidence-Based Spine-Care Journal October 2014 (PMID: 25278889).

75. Gasco J, Holbrook TJ, Patel A, Smith A, Paulson D, Muns A, Desai S, **Moisi M**, Kuo YF, Macdonald B, Ortega-Barnett J, Patterson JT "Neurosurgery Simulation in Residency Training: Feasibility, Cost, and Educational Benefit" *Neurosurgery*: Oct, 2013- Volume 73 p S39-S45 (PMID: 24051881).
76. Taoufik Wassar, Tamas G. Lupsay, Upendar R. Kallu, **Marc Moisi**, Richard B. Voigt, Nicole R. Marques, Muzna N. Khan, Karolos M. Grigoriadis, George C. Kramer, and Matthew A. Franchek "Automatic Control of Mean Arterial Pressure during Trauma Resuscitation using Closed-Loop Vasopressor Therapy" *From Proceeding (806) Power and Energy / 807: Intelligent Systems and Control / 808: Technology for Education and Learning – IASTED International Symposium 2013*
77. N Marques MD, G Kramer PhD, **MD Moisi MD**, I Pendraza MA, M Khan BS, M Kinsky MD "Quantitative Review and Comparison of Noninvasive Hemoglobin Accuracy and Trend Ability" *Proceeding of the Society for Technology in Anesthesia Annual Meeting*: A2287.
78. Aditya Raghunathan, MD, MPH; Sean Barber, BA; **Marc D. Moisi, MD**; Abir L. Mukherjee, MD; Andreana L. Rivera, MD; Hidehiro Takei, MD, PhD; Todd W. Trask, MD; Suzanne Powell, MD. "Primary Intracranial Sarcomatoid Carcinoma Arising from a Recurrent/ Residual Epidermoid Cyst of the Cerebellopontine Angle: A Case Report" *American Journal of Surgical Pathology* 35(8): 1238–1243(2011) (PMID: 21753701).
79. **M Moisi**, G Cohen, H Amols, and M Zaider, "An Uncomplicated Method for Evaluating Permanent Prostate Implants," *Medical Physics* 29:1229 (2002).
80. Gurvir S. Khurana, Elyse Kohn Hoffman, Martha Caprio, Carol Prendergast, **Marc Moisi**, Karen D. Hendricks-Munoz "The Effect of Hands-On Containment or Facilitated Tuck on Preterm Infants During Retinopathy of Prematurity (ROP) Exams"; *Pediatric Academic Societies* 2001.
81. **M Moisi** G Fisher "The use of molecular orbital theory to model new molecules in the interstellar media." Abstract published in materials of American Chemical Society Conference 1999.

Books/Book Chapters

1. Alexander von Glinski, Dia Halalmeh, Seong-Jin Moon, **Marc D Moisi**, Rod Oskouian: Technique: Lateral Transpoas Approaches to the Lumbar Spine, in Edited by R Shane Tubbs, Rod Oskouian, Joe Iwanaga, **Marc Moisi**, *Surgical Anatomy of the Lateral Transpoas Approach to the Lumbar Spine* © Elsevier 2020 (Chapter 17).
2. Maxwell Laws, Alexander von Glinski, Dia Halalmeh, **Marc D Moisi**, Rod Oskouian: Lateral Approaches to the Thoracic Spine: in Edited by R Shane Tubbs, Rod Oskouian, Joe Iwanaga, **Marc Moisi**, *Surgical Anatomy of the Lateral Transpoas Approach to the Lumbar Spine* © Elsevier 2020 (Chapter 22).
3. Alexander von Glinski, Shiwei Huang, Ari D Kappel, Dia Halalmeh, **Marc D Moisi**, Rod Oskouian: Techniques for the Lateral Thoracolumbar Approach, in Edited by R Shane Tubbs, Rod Oskouian, Joe Iwanaga, **Marc Moisi**, *Surgical Anatomy of the Lateral Transpoas Approach to the Lumbar Spine* © Elsevier 2020 (Chapter 23).

4. Alexander von Glinski, Darius Ansari, Bradley Kolb, Gary Rajah, Daniel T Ginat, Dia Halalmeh, **Marc D Moisi**, Rod Oskouian: Complications from Lateral Transpssoas Appraoches to the Lumbar Spine, in Edited by R Shane Tubbs, Rod Oskouian, Joe Iwanaga, **Marc Moisi**, *Surgical Anatomy of the Lateral Transpssoas Approach to the Lumbar Spine* © Elsevier 2020 (Chapter 24).
5. Dia Halalmeh, Alexander von Glinski, Christopher E Childers, **Marc D Moisi**, Rod Oskouian: Tips and Tricks of Lateral Appraoches to the Thoracolumbar spine, in Edited by R Shane Tubbs, Rod Oskouian, Joe Iwanaga, **Marc Moisi**, *Surgical Anatomy of the Lateral Transpssoas Approach to the Lumbar Spine* © Elsevier 2020 (Chapter 25).
6. D Halalmeh, **M Moisi**: Pathologies Affecting the Sacral Plexus, in R Shane Tubbs, Joe Iwanaga, Marios Loukas, Aaron Dumont, Miguel Reina, *Surgical Anatomy of the Sacral Plexus and its Branches* © Elsevier 2021 (Chapter 22).
7. Seong-Jin Moon, Lara Tkachenko, Erick Garcia-Gorbea, R. Shane Tubbs, **Marc D Moisi**: The Anterior Insula and its Relationship to Autism, in M. Turgut, C Yurttas, R. S. Tubbs, *Island of Reil (Insula) in the Human Brain: Anatomical, Functional, Clinical and Surgical Aspects* © Springer Chapter 17 (pages 157-159) July 2018.
8. Daniel Thomas Ginat, Ann-Christine Duhaime and **Marc Daniel Moisi**: Imaging the Postoperative Scalp and Cranium, in D.T. Ginat, P.-L.A. Westesson, *Atlas of Postsurgical Neuroradiology*, Second Edition © Springer-Verlag Berlin Heidelberg Chapter 4 (pages 117-181) June 2017.
9. Daniel Thomas Ginat, Pamela W. Schaefer and **Marc Daniel Moisi**: Imaging the Intraoperative and Postoperative Brain, in D.T. Ginat, P.-L.A. Westesson, *Atlas of Postsurgical Neuroradiology*, Second Edition © Springer-Verlag Berlin Heidelberg Chapter 5 (pages 183-258) June 2017.
10. Daniel Thomas Ginat, Ryan Murtagh, Per-Lennart A. Westesson, **Marc Daniel Moisi**, and Rod J. Oskouian, Imaging of the Postoperative Spine, in in D.T. Ginat, P.-L.A. Westesson, *Atlas of Postsurgical Neuroradiology*, Second Edition © Springer-Verlag Berlin Heidelberg Chapter 11 (pages 523-625) June 2017.
11. **Marc Moisi, MD**, Aurora Cruz, BA, Tara L. Benkers, MD, Steven Rostad, MD, Frances Broyles, MD, Marc R. Mayberg, MD, Kevin C.J. Yuen, MD “Treatment of Aggressive Prolactin-Secreting Pituitary Adenomas With Adjuvant Temozolomide Chemotherapy” Chapter 25 *The Art of Neuroendocrinology: A Case Based Approach to Medical Decision Making*; Nova Science Publishers 2017.

Poster Presentations

1. N Marques MD, **MD Moisi MD**, M Kinsky, MD, G Kramer, PhD "Quantitative Review and Comparison of Noninvasive Hemoglobin Accuracy and Trend Ability" Poster Presentation at the 2013 Annual Meeting of the American Society of Anesthesiologists October 2013.
2. Kallu UR, Wassar, T, Luspay TG, Voigt RB, Marques NR, **Moisi M**, Grigoriadis KM “Predictive Modeling and Closed-Loop Control of Arterial Blood Pressure During Trauma Resuscitation” Poster Presentation at Military Health Services Research Symposium, August 2013.
3. **MD Moisi MD**, N Marques MD, RB Voigt, MSE, W Mileski, MD, M Kinsky, MD, G Kramer, PhD “Automated Critical Care System: Decision Support and Closed Loop Fluid

Resuscitation for Combat Casualty Transport”; Poster Presentation for Clinical and Translational Science Awards February 20, 2013.

4. Emmanuel Y. Voado MD; Robert G. Grossman MD; **Marc Daniel Moisi MD** “Clinical Outcomes after Microsurgical Approach for Recurrent Lumbar Disc Herniations” Poster Presentation at 2010 Congress of Neurological Surgeons meeting. October 16-21, 2010.
5. Emmanuel Y. Voado MD; Robert G. Grossman MD; **Marc Daniel Moisi MD** “Microsurgical Medial Facetectomy and Discectomy” Poster Presentation at 2010 Congress of Neurological Surgeons meeting. October 16-21, 2010.
6. Emmanuel Y. Voado MD; **Marc Daniel Moisi MD**; Daniel John DiLorenzo MD, PhD; Robert G. Grossman MD “Decompressive Hemicraniectomy and Duraplasty for Ischemic Stroke” Poster Presentation at 2010 Congress of Neurological Surgeons meeting. October 16-21, 2010
7. Voado, EY, **MD Moisi**, DJ DiLorenzo, J Zhang, PJ Holman, JE Rose, DS Baskin , RG Grossman. “Decompressive hemicraniectomy and duraplasty for ischemic stroke”. Poster Presentation at 2009 Congress of Neurological Surgeons meeting. October 24-29, 2009
8. **M Moisi**, G Cohen, H Amols, and M Zaider, “An Uncomplicated Method for Evaluating Permanent Prostate Implants,” American Association of Physicists National Meeting Montreal, Canada (July 2001).

Grants:

1. Synaptive- Comparative Study of Synaptive Servo versus intraoperative microscope for spine surgeons during laminotomy- November 2015.
 - a. Study to compare the user characteristics of an optoelectronic visualization device to a traditional high-end operating microscope in a cadaveric lumbar dissection model within a simulated surgery setting. Fellows perform a laminotomy with each device and performance is scored by faculty.
2. Synaptive- Comparative Study of Synaptive Servo versus intraoperative microscope versus endoscope during transphenoidal surgery- a cadaveric feasibility study - November 2015.
 - a. Study to compare the user characteristics an optoelectronic visualization device to a traditional high-end operating microscope and endoscope in a cadaveric transphenoidal dissection model within a simulated surgery setting. Fellows perform a transphenoidal with each device and performance is scored by faculty.
3. BrainLab- Feasibility Study Trans-arch versus Harms technique C1 screw placement- March 2016
 - a. Cadaveric study to compare traditional Harms technique of C1 screw placement to a trans-arch C2 nerve root sparing technique. Evaluation of screw placement, vascular and neural structure injury is evaluated by faculty on cadaver and CT.

Invited Speaker/Faculty:

1. “Post-operative Imaging Spinal: The Good, The Bad and The Ugly” Grand Rounds Wayne State University Department of Medicine Huron Valley, November 2020.
2. “Awake at the Wound” AAORN Guest Speaker November 7, 2020

3. "Post-operative Imaging Cranial: The Good, The Bad and The Ugly" Grand Rounds Wayne State University Department of Medicine Huron Valley, September 2020.
4. "Surgical Anatomy of the Lumbar Spine" *Tenth Annual One Spine Residents and Fellows course* August 8, 2020 Seattle Science Foundation Seattle, WA.
5. "Post-operative Imaging Cranial: The Good, The Bad and The Ugly" Grand Rounds Wayne State University PM and R , August 3, 2020.
6. "The Multi-Disciplinary Approach to the Spine Patient" Grand Rounds Wayne State University Department of Medicine Huron Valley, June 2020.
7. "Management of Spinal Cord Injury" Invited speaker for Baker College Department of Occupational Surgery- April 29, 2020.
8. "The Multi-Disciplinary Approach to the Spine Patient"- Invited speaker for Baker College Department of Occupational Surgery- April 8, 2020.
9. "Post-operative Imaging Spinal: The Good, The Bad and The Ugly" Grand Rounds PMR Department DMC, March 25, 2020.
10. "The Multi-Disciplinary Approach to the Spine Patient"- Invited speaker for Grand Round for Pain Fellows- Detroit Medical Center March 6, 2020.
11. "Awake at the Wound" Peri-operative Nurses Detroit Receiving Hospital February 5, 2020.
12. "Current Advancements in the Management of Spinal Cord Injury" Detroit Trauma Symposium, Detroit, MI November 8, 2019.
13. "The Multi-Disciplinary Approach to the Spine Patient" Case Management Society of America October 16, 2019.
14. "Caring for the Spine Trauma Patient" ER Nurse Week Lecturer October 11, 2019.
15. "Craniocervical Junction Anatomy and approaches" Grand Rounds Wayne State University/DMC October, 2 2019.
16. "Surgical Anatomy of the Lumbar Spine" *Tenth Annual One Spine Residents and Fellows course* August 9, 2019 Seattle Science Foundation Seattle, WA.
17. Faculty for Laboratory portion *Tenth Annual One Spine Residents and Fellows course* August 9, 2019 Seattle Science Foundation Seattle, WA.
18. "Awake at the Wound" Michigan Association of Neurological Surgeons June 9, 2019.
19. Moderator of Spine Section- Michigan Association of Neurological Surgeons June 9, 2019.
20. "The Multi-Disciplinary Approach to the Spine Patient" Michigan Association of Neurological Surgeons June 8, 2019.
21. "Spinal Cord Stimulation for Pain Management" Treatment Trends 2019 Technology May 10, 2019 COBO Center Detroit, MI
22. "Post-operative Imaging: The Good, The Bad and The Ugly" Visiting Professor University of Chicago, Grand Rounds Presentation March 13, 2019 University of Chicago, Chicago, IL
23. "External Ventricular Drains: Uses and Upkeep" Department of Medicine Huron Valley March 11, 2019; DMC Huron Valley, Commerce, MI
24. Neurosurgery Grand Rounds Feb.
25. "The Multi-Disciplinary Approach to the Spine Patient"- Invited speaker for Grand Round for Pain Fellows- Detroit Medical Center.
26. "Modalities and Consequences of Spine Revision Surgery" Grand Rounds Wayne State University August 2018.

27. "Post-operative Imaging: The Good, The Bad and The Ugly" *Ninth Annual One Spine Residents and Fellows course* August 12, 2018 Seattle Science Foundation Seattle, WA
28. Faculty for Laboratory portion *Ninth Annual One Spine Residents and Fellows course* August 11, 2018 Seattle Science Foundation Seattle, WA
29. "Post-operative Imaging: The Good, The Bad and The Ugly" Michigan Association of Neurological Surgeons June 10, 2018.
30. "Awake at the Wound" Grand Rounds Wayne State University May 30 2018.
31. Faculty for Ulrich Sponsored Thoracic Corpectomy Course- May19, 2018, Detroit, MI.
32. "Awake at the Wound" Peri-operative Nurses Detroit Receiving Hospital March 21 and April 4, 2018.
33. "Post-operative Imaging Cranial: The Good, The Bad and The Ugly" Grand Rounds Wayne State University ,February 6, 2018.
34. Faculty for Depuy-Synthes Sponsored TLIF Course- January 13, 2018, Detroit, MI.
35. "Spinal Metastatic disease: a multi-disciplinary approach for optimal patient care and outcomes" Grand Rounds University of Chicago Department of Neuroradiology December 22, 2017.
36. Faculty for Nuvasive Sponsored XLIF Course November 4, 2017 Detroit, MI
37. "C1 and C2 Fractures Classification and Treatments" Grand Rounds Wayne State University September 2017.
38. "Post-operative Imaging: The Good, The Bad and The Ugly" *Eighth Annual One Spine Residents and Fellows course* August 13, 2017 Seattle Science Foundation Seattle, WA
39. Faculty for Laboratory portion *Eighth Annual One Spine Residents and Fellows course* August 11-12, 2017 Seattle Science Foundation Seattle, WA
40. "Post-operative Neuroradiology: The good, the Bad, the Ugly" Grand Rounds Wayne State University August 2017.
41. Faculty for Laboratory portion *Third Annual Advanced Lateral Approaches to the Spine* February 25, 2017 Seattle Science Foundation Seattle, WA
42. **M. Moisi**, S Moon "The Carotid Artery" Grand Rounds Wayne State University December 2016.
43. "Cerebrovascular- Vascular Anomalies" Grand Rounds Wayne State University August 2016.
44. Faculty for 10th Annual Cerebrovascular Symposium: New Innovations from Ambulance to Rehabilitation- *Robotic Scope and Brain Imaging* May 5-6, 2016 Swedish Neuroscience Institute.
45. Faculty for *Optical Training Cadaver Course- Synaptive* April 9, 2016 Irvine, CA.
46. Faculty for Laboratory portion *Sixth Annual Multimodal Treatment of Spinal Tumors* April 2, 2016 Seattle Science Foundation Seattle, WA
47. Faculty for Laboratory portion *Second Annual Advanced Lateral Approaches to the Spine* February 27, 2016 Seattle Science Foundation Seattle, WA
48. Faculty for Laboratory portion *OneSpine Masters* June 26, 2015 Seattle Science Foundation Seattle, WA
49. C1,C2 Fractures Treatment and Management *Seattle Science Foundation Spine Conference Featured Presentation* February 5, 2014 Seattle, WA
50. **Marc D. Moisi MD**, Nicole R. Marques MD, Carlos T. Ramos BS, Irene C. Pedraza MA, William J. Mileski MD, Michael C. Kinsky MD, George C. Kramer PhD
"Resuscitation Algorithms for Automated Critical Care of Combat Casualties"

Presentation for Break Out session at Military Health Services Research Symposium presented by George C Kramer, PhD August, 2013.

51. "The Fifth Ventricle: Case Report and Literature Review." Texas Association of Neurological Surgeons (TANS), Hyatt Regency Hotel, Dallas, Texas. April 2007

Committees

1. Physician Neurosurgical Champion of Detroit Receiving/ Harper Hospital for Michigan Spine Surgery Improvement Collaborative
2. Trauma Systems Committee Member Detroit Receiving Hospital
3. Trauma Systems Committee Member Huron Valley Hospital
4. Ethic Committee Member Detroit Medical Center
5. Operating Room Surgical Committee Detroit Receiving Hospital
6. Medical Staff Operations Committee Detroit Receiving Hospital
7. Clinical Competency Committee Core Faculty
8. Neurosurgical Liaison for Trauma Service Detroit Receiving Hospital
9. Neurosurgical Liaison for Trauma Service Huron Valley Hospital
10. Peer Review Fair Hearing Committee Detroit Medical Center
11. Faculty Advisor for Wayne State Department of Neurosurgery Morbidity and Mortality Conference
12. Faculty Advisor Wayne State Neurosurgery Medical Student Interest Group

Video Presentation

1. **Marc Moisi, MD** "Lateral PSO and VCR Presentation"
<https://www.youtube.com/watch?v=tD6QIeoUkls>

Major Professional Societies

American Association of Neurological Surgeons (AANS)
Congress of Neurological Surgeons (CNS)
Michigan Association of Neurological Surgeons (MANS)
North American Spine Society (NASS)

Scholarly Service

Editorial Board Membership

The Spine Scholar	June 2017-Present
EC Orthopaedics	December 2016-Present

Review of Manuscripts

Cureus	May 2015- present
Pediatric Neurosurgery	July 2016-Present
International Journal of Surgery	May 2017-Present
Operative Neurosurgery	November 2017-Present
BMC Musculoskeletal Disorders	February 2018-Present
World Neurosurgery	April 2018-Present