

CURRICULUM VITAE

NAME: **Tobias A. Mattei, MD, FACS**

Current Position Assistant Professor – Chief of Spine Surgery
Division of Neurosurgery - St. Louis University



[https://physicians.slucare.edu/details/1153/tobias -mattei-neurosurgery-spine surgery-st louis](https://physicians.slucare.edu/details/1153/tobias-mattei-neurosurgery-spine_surgery-st_louis)

Research Medicolegal Research in Spine Surgery,
Interests Adult Degenerative Scoliosis, Complex Spine Surgery

Academic Office Address:

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St. Louis, MO 63110

E-mail: tobias.mattei@health.slu.edu or tobiasmattei@gmail.com

EDUCATION:

1995 – 1998	Colegio Positivo Curitiba, Parana/Brazil		High School (with Honors)
1998 - 2000	Colegio Positivo Curitiba, Parana/Brazil		Bachelor in Science (with Honors)
2000 - 2006	Faculdade de Medicina da Universidade Estadual de São Paulo Graduated ‘Cum Laude– ’ Best Curriculum of Medical School São Paulo, Brazil		M.D.
2004 - 2006	Faculdade de Medicina da Universidade Estadual de São Paulo São Paulo, Brazil		Intern General Surgery/Medicine
2006 - 2011	Instituto de Neurologia de Curitiba Curitiba, Parana - Brazil		Resident Neurological Surgery
2009-2010	Instituto de Neurologia de Curitiba Curitiba, Parana – Brazil		Enfolded fellow Endovascular Neuro- surgery
2010 - 2011	Instituto de Neurologia de Curitiba Curitiba, Parana – Brazil (Ricardo Ramina, Chairman)		Chief-resident and Enfolded fellow Cerebrovascular and Skull Base Neuro- surgery
2011 –2012	University of Illinois at Peoria Peoria, IL	Clinical Fellow	Clinical Neurosurgery
2011 –2012	University of Illinois at Peoria Peoria, IL - Umbilical Cord Stem Cell Laboratory	Research Fellow	Stem Cell Research in Gliomas
2012 –2013	University of Illinois at Peoria	Clinical	Complex Spine

	Peoria, IL	Fellow	Surgery and Deformity
2013 –2014	Ohio State University Columbus, OH	Clinical Instructor	Surgical Spinal Oncology
2014 - 2016	Brain & Spine Center InvisionHealth Buffalo/NY	Associate Neurosurgeon	
2017 - 2018	Neurosurgery & Spine Specialists Eastern Maine Medical Center Bangor/ME	Associate Neurosurgeon	
2018 - present	Neurosurgery Department St. Louis University St. Louis/MO	Assistant Professor Chief of Spine Surgery	
2021-2024	Syracuse College of Law	JD candidate - class 2025	

Scientific Societies (Membership):

North American Spine Society (NASS)
American Association of Neurological Surgeons (AANS)
Congress of Neurological Surgeons (CNS)
American College of Surgeons (ACS)
Brazilian Academy of Neurosurgery
Brazilian Society of Neurosurgery
American Academy of Neurological and Orthopedic Surgeons (AANOS)

External Funding Reviewer:

- National Institute of Health (NIH) - Center for Scientific Review
Clinical Neurophysiology, Devices, Neuroprosthetics and Biosensors Panel
- Innovation and Technology Commission/ Hong Kong SAR Government
- The Brain Tumor Charity - New Ideas Award/UK

Editorial Board Membership:

North American Spine Society Journal (NASSJ) - **Deputy Editor**
The Spine Journal (official journal of North American Spine Society)

World Neurosurgery
Clinical Neurology & Neurosurgery
Osteoarthritis and Cartilage (official journal of **Osteoarthritis Research Society International**)

Journal of Engineering in Medicine: Part H (Proceedings of the Institution of Mechanical Engineers)
Neurological Sciences (official journal of Italian Neurosurgical Society)
British Journal of Neurosurgery (official journal of British Neurosurgical Society)
Injury Prevention
Yonsei Medical Journal

Ad-hoc Reviewer:

‘ Neurosurgery’
‘ The European Spine Journal’
‘ Royal Society Open Science’
‘ International Journal of Nanomedicine’ ‘ Pain Medicine’
‘ Neurological Research’
‘ Journal of Neurosurgical Sciences’
‘ Computer Methods and Programs in Biomedicine’
‘ Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization’
‘ BMC Musculoskeletal Disorders’ ‘ Surgical Neurology International’
‘ Medical Devices: Evidence and Research’
‘ Arquivos Brasileiros de Neuro-Psiquiatria’
‘ OncoTargets and Therapy’

Medical Licenses:

State Of Missouri– Licensing Number: 2018009352 Issuance Date: 03/16/2018
State Of Maine– Licensing Number: MD21243 Issuance Date: 08/02/2016
State Of New York/US – Licensing Number: 273218 Issuance Date: 12/16/2013
The Ohio State/US - Licensing Number: 57.022362 Issuance Date:10/11/2013
State of Illinois/US - Licensing Number: 125060667 Issuance Date:07/06/2011
State of Parana/Brazil: CRM: 23.552
DEA number: currently valid

Current Hospital Privileges:

St. Louis University Hospital - St. Louis/MO
Cardinal Glennon Hospital - St. Louis/MO
St. Mary’s Hospital - St. Louis/MO

Past hospital privileges (07.2014- 12,2016) at Catholic Health System - Buffalo/NY

<http://www.chsbuffalo.org/Facilities/Hospitals>

- Kenmore Mercy Hospital - Buffalo/NY
- South Buffalo Mercy Hospital - Buffalo/NY
- Sister’s of Charity Hospital - Buffalo/NY

- Mount St. Mary Hospital - Lewinston/NY

Niagara Falls Memorial Medical Center - Niagara Falls/NY

<http://nfmmc.org>

Eastern Maine Medical Center (2017-2018)

<https://emmc.org>

ECFMG Certification: 0-671-683-1 issued at March 7th, 2011

Brazilian Society of Neurosurgery Certification: April 2012 -

World Federation Neurosurgical Society Certification: June 2013

STEP 1: “Approved” – Score: 213/87 - Date: 03/01/2005

STEP 2 CK: “Approved” – Score: 198/81 Date: 07/10/2010

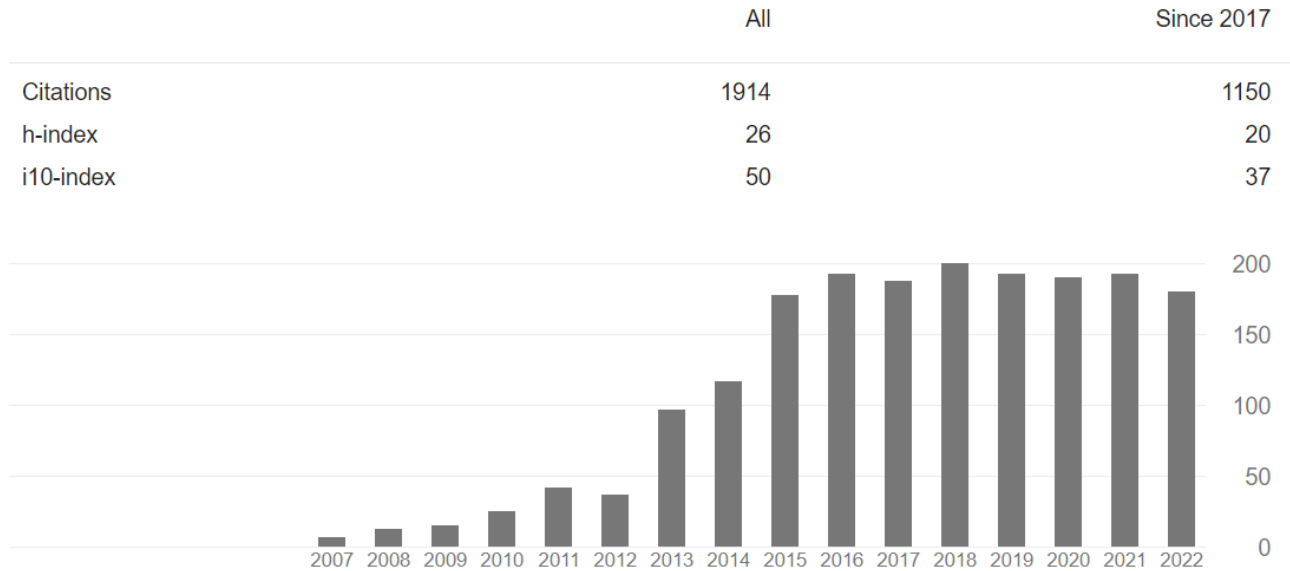
STEP 2 CS: “Approved” - Date: 01/24/2011

STEP 3: “Approved” – Score: 207/86 Date 06/01/2011

Personal Impact Factor/Academic Indices

Google Scholar

<https://scholar.google.com/citations?user=qYteHBIAAAAJ&hl=en>



<https://www.ncbi.nlm.nih.gov/pubmed/?term=mattei+ta>

Publons

<https://publons.com/author/1178893/tobias-a-mattei#profile>

VERIFIED REVIEWS

160 Median: 3
99th percentile

VERIFIED REVIEWS (LAST 12 MONTHS)

56 Median: 1
99th percentile

REVIEW TO PUBLICATION RATIO

1:1 Median: 0.3:1

Publication metrics

PUBLICATIONS IN
WEB OF SCIENCE

134

SUM OF TIMES
CITED

757

H-INDEX

18[Ⓢ]

AVERAGE CITATIONS
PER ITEM

5.7

AVERAGE CITATIONS
PER YEAR

24.4

Peer Reviewed Publications:

1. Zhang JK, Alimadadi A, ReVeal M, Del Valle AJ, Patel M, O'Malley DS, Mercier P, **Mattei TA**. Litigation involving sports-related spinal injuries: a comprehensive review of reported legal claims in the United States in the past 70 years. *Spine J*. 2022 Aug 23:S1529-9430(22)00877-4. doi: 10.1016/j.spinee.2022.08.012. Epub ahead of print. PMID: 36028214.
2. Zhang JK, Botterbush KS, Bagdady K, Lei CH, Mercier P, **Mattei TA**. Blast-Related Traumatic Brain Injuries Secondary to Thermobaric Explosives: Implications for the War in Ukraine. *World Neurosurg*. 2022 Aug 24:S1878-8750(22)01183-4. doi: 10.1016/j.wneu.2022.08.073. Epub ahead of print. PMID: 36028113.
3. Zhang JK, Del Valle AJ, Alexopoulos G, Patel N, Van Nipsen J, Patel M, Xu E, Mercier P, Kohn NA, **Mattei TA**. Malpractice Litigation in Elective Lumbar Spinal Fusion: a Comprehensive Review of Reported Legal Claims in the U.S. in the Past 50 Years. *Spine J*. 2022 Apr 2:S1529-9430(22)00145-0. doi: 10.1016/j.spinee.2022.03.015. Epub ahead of print. PMID: 35381361.
4. Zhang JK, Botterbush KS, Del Valle AJ, **Mattei TA**. Political Rivalry during the American Founding Fathers' Era and the Bullet that ended up in Alexander Hamilton's Upper Lumbar Spine. *World Neurosurg*. 2022 Mar 18:S1878-8750(22)00362-X. doi: 10.1016/j.wneu.2022.03.071. Epub ahead of print. PMID: 35314409.
5. Alexopoulos G, Zhang J, Karampelas I, Patel M, Kemp J, Coppens J, **Mattei TA**, Mercier P. Long-term time series forecasting and updates on survival analysis of glioblastoma multiforme, a 1975-2018 population-based study. *Neuroepidemiology*. 2022 Feb 16. doi: 10.1159/000522611. Epub ahead of print. PMID: 35172317.
6. Zhang JK, Del Valle A, Ivankovic S, Patel N, Alexopoulos G, Khan M, Durrani S, Patel M, Teclé NE, Sujjantarat N, Jenson AV, Zammar SG, Huntoon K, Goulart CR, Wilkinson BM, Bhimireddy S, Britz GW, DiLuna M, Prevedello DM, Dinh DH, **Mattei TA**. Educational impact of early COVID-19 operating room restrictions on neurosurgery resident training in the United States: A multicenter study. *N Am Spine Soc J*. 2022 Feb 19;9:100104. doi: 10.1016/j.xnsj.2022.100104. PMID: 35224520; PMCID: PMC8856749.
7. El Teclé NE, Urquiaga JF, Griffin ST, Alexopoulos G, El Ahamadieh TY, Aoun SG, **Mattei TA**. Misinterpretations of Null Hypothesis Significance Testing Results Near the P-value Threshold: An Estimation of The Prevalence of Such a Statistical Error In The Neurosurgical Literature. *World Neurosurg*. 2021 Dec 13:S1878-8750(21)01873-8. doi: 10.1016/j.wneu.2021.12.030. Epub ahead of print. PMID: 34915206.
8. Alexopoulos G, Zhang J, Karampelas Z, **Mattei TA**, et al. Applied forecasting for de-

layed cerebral ischemia prediction post subarachnoid hemorrhage: Methodological fallacies. *Informatics in Medicine Unlocked* Volume 28, 2022, 100817. December 2021. DOI: 10.1016/j.imu.2021.100817

9. **Mattei TA.** TO THE EDITOR. *Spine (Phila Pa 1976)*. 2021 Aug 15;46(16):E901. doi: 10.1097/BRS.0000000000004130. PMID: 34033598.
10. **Mattei TA.** Evidence-based medicine and clinical decision-making in spine surgery. *N Am Spine Soc J*. 2020 Aug 5;3:100019. doi: 10.1016/j.xnsj.2020.100019. PMID: 35141589; PMCID: PMC8820069.
11. **Mattei TA.** The use of image intensifier during scoliosis surgery: Perhaps not medically obligatory; probably still the best practice. *North American Spine Society Journal (NASSJ)* 3 (2020) 100027. <https://doi.org/10.1016/j.xnsj.2020.100027>
12. **Mattei TA.** The classic “Carrot-and-stick approach”: Addressing underutilization of ICD-10 increased data granularity. *North American Spine Society Journal (NASSJ)* 4 (2020) 100032. DOI: 10.1016/j.xnsj.2020.100035
13. **Mattei TA.** Commentary on: “Underweight Patients are an Often Under Looked “At Risk” Population After Undergoing Posterior Cervical Spine Surgery”. *North American Spine Society Journal (NASSJ)* S2666-5484(20)30041-X DOI: <https://doi.org/10.1016/j.xnsj.2020.100041>
14. **Mattei TA.** The Impact of the COVID-19 Pandemic on Spine Care Providers and Patients. *North American Spine Society Journal (NASSJ)* 1 (2020) 100003
15. **Mattei TA.** S3 Sacral-Alar Iliac Screw: A Salvage Technique for Pelvic Fixation in Complex Deformity Surgery. *World Neurosurg*. 2020 Mar 16;139:23-30. doi: 10.1016/j.wneu.2020.03.025. [Epub ahead of print]
16. **Mattei TA, Perret CM.** Should kyphoplasty cures be used in nonosteoporotic patients? A cautionary tale. *Clin Case Rep*. 2020 Jan 30;8(3):453-460. doi: 10.1002/ccr3.2670. eCollection 2020 Mar.
17. **Mattei TA, Teasdale GM.** The Story of the Development and Adoption of the Glasgow Coma Scale: Part I, The Early years. *World Neurosurg*. 2019 Nov 8. pii: S1878-8750(19)32831-1. doi: 10.1016/j.wneu.2019.10.193. [Epub ahead of print]
18. **Mattei TA.** Nonstatistically Significant but Still Different? Perils of Affirming the Alternative (H1) Hypothesis in the Absence of Statistical Significance. *World Neurosurg*. 2019 Nov;131:288. doi: 10.1016/j.wneu.2019.06.061.

19. Lyons FG, **Mattei TA**. Sources, Identification, and Clinical Implications of Heterogeneity in Human Umbilical Cord Stem Cells. *Adv Exp Med Biol*. 2019;1169:243-256. doi: 10.1007/978-3-030-24108-7_13.
20. Kluzek S, **Mattei TA**. Osteoarthritis Cartilage. 2019 Jul;27(7):977-978. doi: 10.1016/j.joca.2019.04.005. Epub 2019 Apr 17.
21. **Mattei TA**, Perret CM, Nunes JC. Development of a New Coupled Cobb-Suction Instrument for Posterior Spinal Approaches: Technical Note. *World Neurosurg*. 2019 Feb 15. pii: S1878-8750(19)30353-5. doi: 10.1016/j.wneu.2019.01.240. [Epub ahead of print]
22. **Mattei TA**, Goulart CR, Rai SS, Rehman AA, Williams M, Mendel E. Rapid Development of Spinal Epidural Lipomatosis after Treatment of Metastatic Castration-resistant Prostate Cancer with Second-Generation Androgen Receptor Antagonists. *World Neurosurg*. 2019 Feb 11. pii: S1878-8750(19)30334-1. doi: 10.1016/j.wneu.2019.01.222. [Epub ahead of print]
23. Nunes JC, Perret C, Ordookhanian C, Kaloostian PE, Abdulrauf SI, **Mattei TA**. "Crimes against the Nervous System": Neurological References During the Nuremberg Doctors' Trials. *World Neurosurg*. 2018 Oct 24. pii: S1878-8750(18)32390-8. doi: 10.1016/j.wneu.2018.10.092. [Epub ahead of print]
24. Ordookhanian C, Kaloostian PE, **Mattei TA**. Taming the Opioid Epidemic: The NIH HEAL Initiative. *World Neurosurg*. 2018 Oct 3. pii: S1878-8750(18)32260-5. doi: 10.1016/j.wneu.2018.09.205. [Epub ahead of print]
25. **Mattei TA**. "Reinventing the wheel": reflections on a recurrent phenomenon in the history of neurosurgery. *J Neurosurg*. 2018 Sep 14;1-8. doi: 10.3171/2018.4.JNS18652. [Epub ahead of print]
26. **Mattei TA**. The CRISPR-Cas9 Genome Editing System: Not as Precise as Previously Believed. *World Neurosurg*. 2018 Aug 14. pii: S1878-8750(18)31825-4. doi: 10.1016/j.wneu.2018.08.042. [Epub ahead of print]
27. **Mattei TA**. Practical Effects of Lowering the P Value in Neurosurgery: Restricting Evidence-Based Medicine to Big Business. *World Neurosurg*. 2018 Sep;117:460-462. doi: 10.1016/j.wneu.2018.07.112. Epub 2018 Jul 18.
28. **Mattei TA**. Memory Transplantation and Learning by Proxy? A Sober Assessment of the Popularly Acclaimed "Snails Experiment". *World Neurosurg*. 2018 Aug;116:387-389. doi: 10.1016/j.wneu.2018.06.129. Epub 2018 Jun 21.
29. **Mattei TA**. Letter to the Editor. S-1 alar-iliac screw technique: nothing new under the sun. *J Neurosurg Spine*. 2018 Sep;29(3):346-347. doi: 10.3171/2018.2.SPINE18173. Epub 2018

30. Mattei TA, Ordookhanian C, Kaloostian PE. "Dear Anesthesiologist, Please Don't Abandon Us": Excessive Anesthesia Handovers and Adverse Perioperative Outcomes in Neurosurgery. *World Neurosurg.* 2018 Jul;115:254-256. doi: 10.1016/j.wneu.2018.05.029. Epub 2018 May 19. PMID: 29772360.
31. **Mattei TA.** Rope Jumping-Induced Traumatic Compression Fractures: the Underestimated Danger of Repetitive Axial Load Forces. *World Neurosurg.* 2018 May;113:96-97. doi: 10.1016/j.wneu.2018.02.037. Epub 2018 Feb 14.
32. **Mattei TA.** A game theory appraisal of the insurance hypothesis: Specific polymorphisms in the energy homeostasis network as imprints of a successful minimax strategy. *Behav Brain Sci.* 2017 Jan;40:e123. doi: 10.1017/S0140525X16001485.
33. **Mattei TA.** Privacy, Confidentiality, and Security of Health Care Information: Lessons from the Recent WannaCry Cyberattack. *World Neurosurg.* 2017 Aug;104:972-974. doi: 10.1016/j.wneu.2017.06.104. Epub 2017 Jun 21.
34. **Mattei TA.** The specificity of SPECT-CT for the diagnosis of discogenic pain: implications for the future of the lumbar fusion outcome score (LUFOS). *Spine J.* 2018 Sep;18(9):1722-1724. doi: 10.1016/j.spinee.2018.04.020. No abstract available.
35. **Mattei TA** Academia's Reproach of Trump's Travel Ban: The Magnitude of the Response. *World Neurosurg.* 2017 Jul;103:896-898. doi: 10.1016/j.wneu.2017.04.168. Epub 2017 May 3.
36. **Mattei TA,** Beer J, Teles AR, Rehman AA, Aldag J, Dinh D. Clinical Outcomes of Total Disc Replacement Versus Anterior Lumbar Interbody Fusion for Surgical Treatment of Lumbar Degenerative Disc Disease. *Global Spine J.* 2017 Aug;7(5):452- 459. doi: 10.1177/2192568217712714. Epub 2017 Jul 7.
37. **Mattei TA.** Privacy, Confidentiality, and Security of Health Care Information: Lessons from the Recent WannaCry Cyberattack. *World Neurosurg.* 2017 Aug;104:972-974. doi: 10.1016/j.wneu.2017.06.104. Epub 2017 Jun 21.
38. **Mattei TA.** Cavitational kyphoplasty: a new technique for reducing the rates of cement extravasation through targeted low-pressure cement injection. *Acta Neurochir (Wien).* 2017 Jun;159(6):1153-1157. doi: 10.1007/s00701-017-3167-3. Epub 2017 Apr 5.
39. **Mattei TA.** Teles AR. Letter to the Editor: The ancient "apples and oranges" conundrum: a call for methodological precision. *J Neurosurg Spine.* 2017 Mar 24:1-3. doi: 10.3171/2016.10.SPINE161185. [Epub ahead of print]

40. **Mattei TA.** The Fractal Geometry of the Brain: Book Review. *World Neurosurgery* 100:271-272 · April 2017 DOI: 10.1016/j.wneu.2017.01.018
41. **Mattei TA.** A game theory appraisal of the insurance hypothesis: Specific polymorphisms in the energy homeostasis network as imprints of a successful minimax strategy. *Behavioral and Brain Sciences* 40 · January 2017. DOI: 10.1017/S0140525X16001485
42. Teles AR, **Mattei TA**, Righesso O, Falavigna A. Effectiveness of Operative and Non-operative Care for Adult Spinal Deformity: Systematic Review of the Literature. *Global Spine J.* 2017 Apr;7(2):170-178. doi: 10.1177/2192568217699182. Epub 2017 May 1.
43. **Mattei TA.** Proposition 64, Cannabis Legalization, and the California Secession Movement: Why Should Neurosurgeons Care? *World Neurosurg.* 2017 Mar;99:770-772. doi: 10.1016/j.wneu.2017.01.066.
44. **Mattei TA.** Talking to Others' Selves: Why a valuationial paradigm of agency fails to provide an adequate theoretical framework for moral Responsibility, social accountability and legal liability. *Behav Brain Sci.* BBS-D-17-00130_ Doris_ Mattei. (Jan 2017 - in press)
45. **Mattei TA.** Trump, Obamacare and the Market for 'Lemons' Paradigm: Current Perspectives on the Future of U.S. Health Care. *World Neurosurg.* 2017 Feb;98:829-832. doi: 10.1016/j.wneu.2016.12.082.
46. **Mattei TA**, Rehman AA, Goulart CR, Sória MG, Rizelio V, Meneses MS. Successful outcome after endovascular thrombolysis for acute ischemic stroke with basis on perfusion-diffusion mismatch after 24 h of symptoms onset. *Surg Neurol Int.* 2016 Jun 3;7(Suppl 14):S421-6. doi: 10.4103/2152-7806.183522.
47. **Mattei TA**, Rehman AA, Teles AR, Aldag JC, Dinh DH, McCall TD. The 'Lumbar Fusion Outcome Score' (LUFOS): a new practical and surgically oriented grading system for preoperative prediction of surgical outcomes after lumbar spinal fusion in patients with degenerative disc disease and refractory chronic axial low back pain. *Neurosurg Rev.* 2016 Jun 11. [Epub ahead of print]
48. **Mattei TA**, Teles AR, Dinh DH. Vertebral body fracture after anterior cervical discectomy and fusion with zero-profile anchored cages in adjacent levels: a cautionary tale. *Eur Spine J.* 2016 Jan 5. [Epub ahead of print]

49. **Mattei TA.** Right L4/L5 Extreme-Lateral Interbody Fusion (XLIF) for Adult Degenerative Scoliosis: When the Black Swan is too real.... *World Neurosurg.* 2015 Oct 16. pii: S1878-8750(15)01372-8. doi: 10.1016/j.wneu.2015.10.029. [Epub ahead of print]
50. **Mattei TA,** Rehman AA, Dinh DH. Acute Spinal Subdural Hematoma after Vertebroplasty: A Case Report Emphasizing the Possible Etiologic Role of Venous Congestion. *Global Spine J.* 2015 Oct;5(5):e52-8. doi: 10.1055/s-0035-1544155. Epub 2015 Feb 2.
51. Goulart CR, **Mattei TA,** Fiore ME, Thoman WJ, Mendel E. Retropharyngeal abscess with secondary osteomyelitis and epidural abscess: proposed pathophysiological mechanism of an underrecognized complication of unstable craniocervical injuries: case report. *J Neurosurg Spine.* 2015 Sep 25:1-9. [Epub ahead of print]
52. **Mattei TA,** Rehman AA, Issawi A, Fassett DR. Surgical challenges in the management of cervical kyphotic deformity in patients with severe osteoporosis: an illustrative case of a patient with Hajdu-Cheney syndrome. *Eur Spine J.* 2015 Jul 22. [Epub ahead of print]
53. **Mattei TA.** Alternating Electric Fields and Carcinogenesis: A New Paradigm to Avoid Missing the Elephant in the Room. *World Neurosurg.* 2015 Mar 10. pii: S1878-8750(15)00197-7. doi: 10.1016/j.wneu.2015.03.003. [Epub ahead of print]
54. Rehman AA, Elmore KB, **Mattei TA.**The effects of alternating electric fields in glioblastoma: current evidence on therapeutic mechanisms and clinical outcomes. *Neurosurg Focus.* 2015 Mar;38(3):E14. doi: 10.3171/2015.1.FOCUS14742.
55. **Mattei TA.** Author's reply to "how to use the load-sharing classification of spine fractures?" Avoiding misleading randomization of apples, oranges and other citrus: the necessity of proper evaluation of comminution in classification systems of thoracolumbar fractures. *Eur Spine J.* 2015 Feb;24(2):408-11. doi: 10.1007/s00586-014-3714-z. Epub 2014 Dec 17.
56. **Mattei TA.** Speech as a breakthrough signaling resource in the cognitive evolution of biological complex adaptive systems. *Behav Brain Sci.* 2014 Dec;37(6):563-4; discussion 577-604. doi: 10.1017/S0140525X13004111.
57. **Mattei TA,** Teles AR, Mendel E. Modern surgical techniques for management of soft tissue sarcomas involving the spine: Outcomes and complications. *J Surg Oncol.* 2015 Apr;111(5):580-6. doi: 10.1002/jso.23805. Epub 2014 Nov 20.
58. **Mattei TA.** Insights of complex system analysis to spinal biomechanics: stability as a dynamic non-equilibrium state. *World Neurosurg.* 2014 Nov;82(5):545-8.

59. **Mattei TA.** Biomimetic nanopores: a new age of DNA sequencing? *World Neuro- surg.* 2014 Sep-Oct;82(3-4):252-4. doi: 10.1016/j.wneu.2014.06.049. Epub 2014 Jul 1.
60. **Mattei TA, Mendel E.** The First Shot is Your Best Shot!: Detrimental Biomechanical Effects of Revising Suboptimally Placed Pedicle Screws. *World Neurosurg.* 2014 Jun 21. pii: S1878-8750(14)00576-2. doi: 10.1016/j.wneu.2014.06.030.
61. **Mattei TA.** The Validity of Dawkins' Selfish Gene Theory and the Role of the Unconscious in Decision-Making: Critical Remarks regarding the Proposed Selfish Goal Theory. *Behav Brain Sci.* 2014 Apr;37(2):148-9. doi: 10.1017/S0140525X13002070.
62. **Mattei TA.** Interdisciplinary benefits of a theory of cultural evolution centered at the group-level: The emergence of macro-neuroeconomics and social evolutionary game theory. *Behav Brain Sci.* 2014 Jun;37(3):264-5. doi: 10.1017/S0140525X13002914.
63. **Mattei TA.** Pediatric Arachnoid Cysts and Subdural Hygromas in the Early Infancy: Challenging the Direction of the Causality Paradigm. *Neurosurgery.* 2014 Jan;74(1):E150-3. doi: 10.1227/NEU.0000000000000181.
64. **Mattei TA.** Assymetric patterns of CSF flow in the spinal subarachnoid cisterns in patients with syringomyelia: insights from syrinx development and resolution in the setting of cervical degenerative spondylosis. *J Neurosurg Spine.* 2014 May 23:1-3. [Epub ahead of print]
65. **Mattei TA.** How graphene is expected to impact neurotherapeutics in the near future. *Expert Rev Neurother.* 2014 May 30:1-3. [Epub ahead of print]
66. **Mattei TA, Ramos E, Rehman AA, Shaw A, Patel SR, Mendel E.** Sustained long-term complete regression of a giant cell tumor of the spine after treatment with denosumab. *Spine J.* 2014 Feb 15. pii: S1529- 9430(14) 00215- 0. doi: 10. 1016/ j.spinee.2014.02.019. [Epub ahead of print]
67. **Mattei TA, Rehman AA.** Technological developments and future perspectives on graphene-based metamaterials: a primer for neurosurgeons. *Neurosurgery.* 2014 May;74(5):499-516.
68. **Mattei TA.** Unveiling complexity: non-linear and fractal analysis in neuroscience and cognitive psychology. *Front Comput Neurosci.* 2014 Feb 21;8:17. doi: 10.3389/fn-com.2014.00017. eCollection 2014. No abstract available.
69. **Mattei TA, Mendel E, Bourekas EC.** Post-operative Cement Augmentation after 360-

degree Fusion for Highly Unstable Vertebral Fractures in patients with Multiple Myeloma: A Technical Note on Delayed Trans-Instrumentation Vertebroplasty. *World Neurosurg.* 2014 Apr 2. pii: S1878-8750(14)00372-6. doi: 10.1016/j.wneu.2014.03.044. [Epub ahead of print]

70. **Mattei TA**, Rodriguez AH, Sambhara D, Mendel E. Current state-of-the-art and future perspectives of robotic technology in neurosurgery. *Neurosurg Rev.* 2014 Apr 13. [Epub ahead of print]
71. **Mattei TA**. Letters to the Editor: Degenerative disc disease and osteoporosis. *J Neurosurg Spine.* 2014 Apr;20(4):471-2. doi: 10.3171/2013.11.SPINE13958. Epub 2014 Jan 24.
72. **Mattei TA**. Non-Homeomorphic Topological Transformations and the Challenge of Collision Detection in Virtual Reality Simulation in Neurosurgery. *World Neurosurg.* 2013 Dec 16. pii: S1878-8750(13)01606-9. doi: 10.1016/j.wneu.2013.12.004. [Epub ahead of print]
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2. **Mattei TA**, Ramina R, Aguiar PH, Tatagiba M. Clinics and Epidemiology of Malignant Meningiomas. (Received Premium of Best Poster in Clinical Session)– X Congress of São Paulo State Neurosurgical Society, Mar 2005, São Paulo – Brazil.
3. **Mattei TA**, Ramina R, Aguiar PH, Tatagiba M. Primary Brain Lymphomas in Immunocompetent Patients. (Received Premium of Best Poster in Oncology Session) – X Congress of São Paulo State Neurosurgical Society, Mar 2005, São Paulo – Brazil.
4. Aguiar PH, **Mattei TA**, Bello TH, Pereira CU, Andrade F, Teixeira J, Panagopoulos A, Maldaun M, Mandel M, Teixeira MJ. Utility of Awake Craniotomy and Cortical Stimulation during Glioma Surgery. Poster Session. XLVI Congresso Chileno Neurocirugia, Dec – 2003. (Received Best Case-Report Poster Award)

Oral Lectures/Presentations:

1. **Tobias Mattei**. Surgical Treatment of Complex Cervical Deformities: Surgical Strategies and Complications Avoidance. 2017 World Federation of Neurosurgical Societies Meeting. Istanbul/Turkey - Oct 2017.
2. **Tobias Mattei**. Surgical Treatment of Adult Degenerative Scoliosis: Indications and Techniques. 2017 World Federation of Neurosurgical Societies Meeting. Istanbul/Turkey - Oct 2017.
3. **Tobias Mattei**. Surgical treatment of adult degenerative scoliosis: minimally invasive, hybrid and open technique options? Joint Meeting AANS/Sociedade Brasileira de

Cirurgia Espinhal - Sao Paulo, March 2017 - (Plenary Speaker).

4. **Tobias Mattei.** Strategies for the Surgical Treatment of Thoracolumbar Burst Fractures. Joint Meeting AANS/Sociedade Brasileira de Cirurgia Espinhal - Sao Paulo, March 2017 - (Plenary Speaker).
5. **Tobias Mattei.** Caviational kyphoplasty. Joint Meeting AANS/Sociedade Brasileira de Cirurgia Espinhal - Sao Paulo, March 2017. (Plenary Speaker).
6. **Tobias Mattei.** Kyphotic cervical deformities: therapeutic algorithms, pitfalls and complications avoidance. Joint Meeting AANS/Sociedade Brasileira de Cirurgia Espinhal - Sao Paulo, March 2017 (Plenary Speaker).
7. **Tobias Mattei.** Minimally Invasive Surgery for Adult Degenerative Deformity. Congressos Brasileiro de Neurocirurgia. Atibaia/SP - Brazil. 2015 (Plenary Speaker).
8. **Tobias Mattei.** Lumbar Fusion Outcome Score (LUFOS): A new surgical-oriented grading system for pre-operative prediction of long-term clinical outcomes after lumbar spinal fusion for degenerative disk disease. Latin-American Congress Neurosurg/ Congreso Cono Sur Neurocir /Santiago Chil 2013 (Plenary Speaker)
9. **Tobias Mattei.** En Bloc' Resection of Extensive Iliosacral Sarcomas extending to the Lumbar Spine and advanced techniques for pelvic reconstruction. Latin-American Congress Neurosurg/Congresso Chileno Neurocir /Santiago Chil 2013 (Plenary Speaker)
10. **“Tobias Mattei, Luis Fernando Moura, Ricardo Ramina – Juvenile Nasoangiofibroma with Intracranial Extension - XXVIII Brazilian Congress Neurosurgery – I International Symposium TBI and Intensive Care in Neurosurgery. International Course of Microsurgical Anatomy. VII Congress in Meningiomas and Cerebral Venous System – 11-16th september 2010 – Bahia/Brazil”**
11. **“Tobias Mattei, Luis Fernando Moura, Ricardo Ramina – Normal Perfusion Pressure Hydrocephalus Breakthrough Syndrome: Literature Review and Clinical Management - XXVIII – I International Symposium TBI and Intensive Care in Neurosurgery. International Course of Microsurgical Anatomy. VII Congress in Meningiomas and Cerebral Venous System – 11-16th September 2010 – Bahia/Brazil”**
12. **Tobias Mattei; Gustavo Nogueira; Tiago Scopel; Joao Maniglia; Ricardo Ramina** Juvenile Nasoangiofibroma with Intracranial Extension - 4th World Skull Base Congress, Pittsburgh, 2010
13. **Tobias Mattei; Ricardo Ramina “Normal Perfusion Pressure Breakthrough” 1st Pan-**

American Simposium of Vascular Neurosurgery - São Paulo/Brazil - July 2010

14. Soria MG, Hunhevicz SC, **Mattei TA**, da Silva Junior EB, Rizelio V, dos Santos MCJ, Coelho-Neto M, Ramina R. 'Complications of Persistent Rhinorrhea and Management with Transnasal Endoscopic Surgery – Case Report'. IV Rhinology 2008 – III WorldCongress for Endoscopic Surgery of the Brain, Skull Base and Spine, Sao Paulo, May 22- 24th, 2008
15. Vanessa Rizelio, **Tobias A. Mattei**, Pedro Kowacs. 'Endovenous Verapamil in Treatment of Status Migranosus. XXII Brazilian Congress of Neurology - Aug 16-21th 2008.
16. Vanessa Rizelio, **Tobias A. Mattei**, Pedro Kowacs. 'Time is not the limit: Aggressive Management of Ischemic Stroke with basis on Diffusion/Perfusion Mismatch. XXII Brazilian Congress of Neurology - Aug 16-21th 2008.
17. Luis Fernando Moura Junior, **Tobias A. Mattei**, Ricardo Ramina – Clinical Evolution in Muscular Strength In patients with Glioma of Supplementary Motor Area operated under Intra-operative Cortical Stimulation - XIV Congress of Brazilian Academy of Neurosurgery - Natal/RN – Brazil - Apr 19 – 23th 2011”
18. **Tobias A. Mattei** – ‘Intra-operative electrophysiological monitoring during surgery of gliomas in eloquent areas’ - I Congress of Residents of the State of Parana – May 15 – 16th 2008”
19. **Tobias A. Mattei** – Outside iMRI: A practical and safe alternative for implementing intra-operative MRI at the neurosurgical routine of therapeutics of cerebral gliomas - I Congress of Residents of the State of Parana – May 15 – 16th 2008”

Abstracts and Posters:

1. **Mattei TA**, Rehman A. The Decisive Impact of Intracranial Hemorrhage on the Geopolitical History of the Middle East: Critical Historical Turning Points involving Neurological Events in Key Contemporaneous Figures. 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, At Chicago/IL. April 2016.
2. **Mattei TA**, Rehman A. The Use of a New Cavity Creation Instrument for Low-Pressure Cement Augmentation in Vertebral Compression Fractures. 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, At Chicago/IL. April 2016.

3. **Mattei TA.** Rehman A, Hyperacute Complex Regional Pain Syndrome in the Immediate Post-operative Period of a Non-complicated 1-level Microdiscectomy and Arthroplasty. 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, At Chicago/IL. April 2016.
4. **Mattei TA.** Preventing Positioning-related Brachial Plexus Compression in Posterior Thoracolumbar Instrumentations: The Role of Upper Limbs SSEPs Monitoring 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, At Chicago/IL. April 2016.
5. **Mattei TA** Percutaneous Vertebroplasty for Treatment of Multilevel Acute Edematous Schmorl's Nodes Causing Refractory Axial Back Pain. Conference Paper · May 2015 Conference: Poster, 2015 Annual Meeting of American Association of Neurological Surgeons (AANS) - May 2015.
6. **Mattei TA.** Goulart CR. Massive Symptomatic Epidural Lipomatosis after Multimodal Therapy with Androgen Receptor Antagonists for Metastatic Castration-Resistant Prostate Cancer. Poster, 2015 Annual Meeting of American Association of Neurological Surgeons (AANS) - May 2015.
7. **Mattei TA.** Goulart CR. Mendel, E. Spinal Osteomyelitis after Unstable Traumatic Craniocervical Injuries: Proposal of a New Pathophysiological Mechanism of an Underrecognized Complication. Poster, 2015 Annual Meeting of American Association of Neurological Surgeons (AANS) - May 2015.
8. **Mattei TA.** Incidence of Median Nerve Schwannomas Among Patients Submitted to Carpal Tunnel Surgery. · September 2015 Conference: Congress of Neurological Surgeons - 2015 Annual Meeting, At New Orleans. Poster
9. **Mattei TA.** Rehman A. Development of a New Coupled Elevator/Suction Tool (the Mattei's Instrument®) for Dissection of the Paraspinal Muscles in Posterior Spinal Approaches. 84th American Association of Neurological Surgeons (AANS) Annual Scientific Meeting, At Chicago/IL. April 2016.
10. **Mattei TA,** Mendel E. Shaw A. Radiographic Regression of a Giant Cell Tumor of the Mobile Spine with Treatment with a new RANK-ligand Monoclonal Antibody (Denosumab). AANS Annual Scientific Meeting – San Francisco 2014 (poster)
11. **Mattei TA,** Dinh D Vertebral Body Fracture after ACDF employing cages with blades in adjacent levels: a cautionary tale. AANS Annual Scientific Meeting – San Francisco 2014 (poster)
12. **Mattei TA,** Mendel E, Bourekas E. Post-operative Cement Augmentation after 360-de-

gree Fusion for Highly Unstable Vertebral Fractures in patients with Multiple Myeloma: A Technical Note on Extra-pedicular Trans-Instrumentation Vertebroplasty. AANS Annual Scientific Meeting – San Francisco 2014 (poster)

13. **Mattei TA**, Dinh D. Progressive kyphotic deformity in comminuted burst fractures treated non-operatively: the Achilles tendon of the Thoracolumbar Injury Classification and Severity Score (TLICS). AANS Annual Scientific Meeting – San Francisco 2014 (poster)
14. **Mattei TA**, Mendel E. Tracing the origins of organized Neurological Surgery in Central Ohio and the development at The Ohio State University. AANS Annual Scientific Meeting – San Francisco 2014 (poster)
15. **Mattei TA**, Mendel E, Bourekas E. Pathological Vertebral Compression Fractures in Patients with Metastatic Cancer under Treatment with Denosumab (XGeva): A contraindication for Vertebroplasty? AANS Annual Scientific Meeting – San Francisco 2014 (poster)
16. **Mattei TA**. The ‘Lumbar Fusion Outcome Score (LUFOS): A new surgical-oriented grading system for pre-operative prediction of long-term clinical outcomes after lumbar spinal fusion for degenerative disk disease. Congress of Neurological Surgeons (CNS) Annual Meeting - San Francisco 2013 (poster)
17. **Mattei TA**, Dinh D. Pathophysiology of Spinal Subdural Hematomas: the Role of Venous Congestion. Congress of Neurological Surgeons (CNS) Annual Meeting - San Francisco 2013 (poster)
18. **Mattei TA**, Fassett DR. Surgical Management of Cervical Kyphotic Deformity in the setting of Severe Osteoporosis. Congress of Neurological Surgeons (CNS) Annual Meeting - San Francisco 2013 (poster)
19. **Mattei TA**, Beer J, Dinh D. Clinical Outcomes of Lumbar Total Disc Replacement versus Anterior Lumbar Interbody Fusion. Congress of Neurological Surgeons- Chicago 2012 (poster)
20. **Mattei TA**, Lin J. Design of a New Concept of Anti-siphon Device for Pressure-Activated Shunts: The ‘Paddle Wheel Valve’. Congress of Neurological Surgeons- Chicago 2012 (accepted – poster)
21. **Mattei TA**, Lin J. Design and Validation of a Synthetic Pediatric Spinal Simulator for Tethered Cord Syndrome. Congress of Neurological Surgeons- Chicago 2012 (accepted – oral presentation/Section Pediatrics)

22. **Mattei TA**, Lin J. Performance Analysis of the Protective Effects of Bicycle-Helmets under Impact and Crushing Testings in Pediatric Skull Models. Congress of Neurological Surgeons- Chicago 2012 (accepted – oral presentation/Section Pediatrics)
23. **Mattei TA**, Milano JB. “Free-hand technique for thoracolumbar instrumentation: a cadaveric model for neurosurgical training. Congress of Neurological Surgeons (CNS) – New Orleans – Oct 24-29th, 2009”
24. Aguiar PH, Petito CE, Valiengo LC, Ziorelli C, Hischer R, Fontes RB, **Mattei TA**. Indications of Surgical Decompression for Treatment of Ischemic Vascular Accident in Territory of Middle Cerebral Artery. Brazilian Congress of Neurosurgery – Vascular Session Posters – Campos do Jordao (Brazil) 2005.
25. **Mattei TA**, Ramina R, Aguiar PH, Tatagiba M. Surgical Approaches to Treatment of Optic Nerve Trauma. Poster Session – X Congress of São Paulo State Neurosurgical Society, Mar 2005, São Paulo – Brazil.
26. **Mattei TA**, Ramina R, Aguiar PH, Tatagiba M. Falx and Parasagittal Meningiomas. Poster Session – X Congress of São Paulo State Neurosurgical Society, Mar 2005, São Paulo – Brazil.
27. **Mattei TA**, Ramina R, Aguiar PH, Tatagiba M. Edema and Malignancy in Meningiomas. Poster Session – X Congress of São Paulo State Neurosurgical Society, Mar 2005, São Paulo – Brazil.
28. **Mattei TA**, Ramina R, Aguiar PH, Tatagiba M. Cerebral Melanoma Metastasis: the role of surgery and adjuvant treatments. Poster Session – X Congress of São Paulo State Neurosurgical Society, Mar 2005, São Paulo – Brazil.
29. Miura FK, **Mattei TA**, Marrie SKN, Aguiar PH. Experimental Gliosarcoma genetic therapy: use of a silicon formulation with ganciclovir. 55th German Congress of Neurosurgery – Poster Session, Apr 2004; Köln – Germany.
30. Aguiar PH, **Mattei TA**, Bello TH, Pereira CU, Andrade F, Mandel M, Teixeira J, Panagopoulos F, Roserberg S, Teixeira MJ. Cell Kinetics in Gliomas. . Poster Session. XLVI Congresso Chileno Neurocirugia, Dez – 2003.
31. **Mattei TA**, Marino R. The sense of physical space: a Theoretical Model of Perception. – Basic Research Poster Session - XXII University Medical Congress – São Paulo University Medical School, Oct – 2003, São Paulo, Brazil.
32. **Mattei TA**, Marino R. Proposal of a Mathematical-Conceptual analysis of Episodic Memory. Basic Research Poster Session - XXII University Medical Congress – São

Paulo University Medical School, Oct – 2003, São Paulo, Brazil.

Lay Media Appearances:

Becker's Spine Review:

Big advancements and opportunities for growth in complex spine surgery: Q&A with Dr. Tobias Mattei

<https://www.beckersspine.com/spine/item/43101-big-advancements-and-opportunities-for-growth-in-complex-spine-surgery-q-a-with-dr-tobias-mattei.html>

STL Dispatch - Two STL doctors lauded by spinal-care magazine

https://www.stltoday.com/news/local/columns/joe-holleman/two-stl-doctors-lauded-by-spinal-care-magazine/article_7c0bdda0-5ac8-568c-9899-478132e684e2.html

Research on Pediatric Traumatic Brain Injuries

Washington Post

<http://www.washingtonpost.com/news/to-your-health/wp/2014/06/03/no-you-cant-crush-a-mans-skull-with-your-bare-hands/>

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<http://www.aansneurosurgeon.org/2012/10/03/childrens-bicycle-helmets-proven-effective-in-impact-and-crush-tests/>

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<http://www.alegantcreighton.com/body.cfm?id=4794&action=detail&ref=57996>

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Brain and Spinal Cord.org

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<http://braininjuryresource.scarlettlawgroup.com/2012/10/22/the-performance-of-bicycle-helmets-in-traumatic-brain-injury/>

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<http://www.carenewengland.org/healthLibrary/details.cfm?chunkid=NRCN669139&db=nrcn>

Research on the Bi-corporal Pump for Normal Pressure Hydrocephalus

The Journal of Neurosurgery Podcast – Dec 7, 2012

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Research on the Paddle-Wheel valve for addressing the Anti-siphoning effect

The Journal of Neurosurgery Podcast – Dec 7, 2012

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English, German, Italian, Portuguese and Spanish

