

Doctor's Brief Curriculum Vitae

Name and Title:

MACHINIS THEOFILOS Assistant Professor of Neurosurgery at Virginia Commonwealth University, Richmond, USA. Director of Neurosurgery Clinic at Metropolitan General Hospital.

Specialty:

Neurosurgeon.

Place of work & Position:

Director of Neurosurgery Clinic at Metropolitan General Hospital. Assistant Professor of Neurosurgery at Virginia Commonwealth University, Richmond, USA.

Director of Cerebrovascular Center at Metropolitan General Hospital.

Education: Medical Degree at Karolinska Institute, Stockholm, Sweden.

Neurosurgery Residency at Virginia Commonwealth University, Richmond, USA.

Endovascular / cerebrovascular fellowship at Virginia Commonwealth University, Richmond, USA.

γ-knife radiosurgery fellowship at Karolinska Institute, Stockholm, Sweden.

Professional Experience: Assistant Professor of Neurosurgery at Virginia Commonwealth University, Richmond, USA.

Medical Director of Neurosurgery Lynchburg General Hospital.

Medical Director of Neurosurgery Metropolitan Hospital General.

Publications / Research:

ORAL PRESENTATIONS/POSTERS/ABSTRACTS:

1. "The Role of Magnesium Sulfate in the Treatment of Vasospasm in Patients with Spontaneous Subarachnoid Hemorrhage". T.G. Machinis, K.N. Fountas, E.Z. Kapsalaki, J.S. Robinson. 57th Annual Congress of the Scandinavian Neurosurgical Society, June 2005, Oslo, Norway.
(selected as one of six presentations to participate in the Scientific Award Competition)

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2. "VA-shunt Distal Catheter Placement Utilizing Real-time Transesophageal Echocardiography". **T.G. Machinis**, K.N. Fountas, J.A. Hudson, J.S. Robinson, E.C. Troup. Congress of Neurological Surgeons Annual Meeting, October 2005, Boston, MA, USA.
3. "Definitive Diagnosis of Cerebral Abscesses versus Malignant Brain Tumors by Proton Magnetic Resonance Spectroscopy". K.N. Fountas, E.D. Gotsis, E.Z. Kapsalaki, H.F. Smissen, I.Z. Kapsalakis, I.M. Fezoulidis, **T.G. Machinis**, J.S. Robinson. 13th World Congress of Neurological Surgeons, June 2005, Marrakesh, Morocco.
4. "The role of Microdialysis in Neuro-Intensive Care Monitoring". K.N Fountas, **T.G. Machinis**, J.S. Robinson. Annual Spring Meeting of the Georgia Neurosurgical Society, May 2005, Sea Island, GA, USA.
5. "The Description of Skull Shape and the Correlation with the Suture Configuration as Described by Vesalius". V.G. Dimopoulos, K.N. Fountas, **T.G. Machinis**, J.S. Robinson. Annual Winter Meeting of the Georgia Neurosurgical Society, November 2005, Atlanta, GA, USA.
6. "A Clinical Trial of rt-PA Intraventricular Administration in Patients with Intraventricular Hemorrhage". K.N. Fountas, E.Z. Kapsalaki, **T.G. Machinis**, D.C. Parish, B. Smith, H.F. Smissen, K.W. Johnston, J.S. Robinson. 3rd Annual Meeting of the Neurocritical Care Society, February 2005, Scottsdale, AZ, USA
7. "Complications of Anterior Cervical Discectomy and Fusion; Lessons that can be Learned". **T.G. Machinis**, K.N. Fountas, E.Z. Kapsalaki, J.S. Robinson. 57th Annual Congress of the Scandinavian Neurosurgical Society, June 2005, Oslo, Norway.
8. "C-reactive Protein and Outcome in Spontaneous Subarachnoid Hemorrhage. Is There a Relationship?". K.N. Fountas, M. Ajjan, M. Kassam, **T.G. Machinis**, V.G. Dimopoulos, C. Feltes, J.S. Robinson. 13th World Congress of Neurological Surgeons, June 2005, Marrakesh, Morocco.
9. "Outcome Analysis of Patients with Intraventricular Hemorrhage Treated with Intraventricular Administration of rt-PA". K.N. Fountas, E.Z. Kapsalaki, **T.G. Machinis**, H.F. Smissen, K.W. Johnston, J.S. Robinson. 13th World Congress of Neurological Surgeons, June 2005, Marrakesh, Morocco.
10. "The Use of Non-invasive Transcranial Ultrasound Device in Patients Diagnosed with Brain Death". K.N. Fountas, A. Sitkauskas, V.G. Dimopoulos, **T. Machinis**, C.H.

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Feltes, A.A. Grigorian, A. Ragauskas, J.S. Robinson. 13th World Congress of Neurological Surgeons, June 2005, Marrakesh, Morocco.

11. "Kyphoplasty in Acute Osteoporotic Vertebral Body Fractures with Immediate and Early Post-operative Pain Relief despite no Significant Restoration of Vertebral Body Height". C. Feltes K.N. Fountas, **T. Machinis**, L.G.

Nikolakakos, V. G. Dimopoulos, R. Davydov, M. Kassam, K.W. Johnston, J.S.

Robinson. 13th World Congress of Neurological Surgeons, June 2005, Marrakesh, Morocco.

12. "Retrospective Analysis of Intraoperative Electrophysiologic Monitoring Findings in Patients Undergoing Anterior Cervical Discectomy and Fusion (ACDF)". V. Dimopoulos, C. Induk, K.N. Fountas, **T. Machinis**, C. Feltes, M. Kassam, J.S. Robinson, A.A. Grigorian. Congress of Neurological Surgeons Annual Meeting, October 2005, Boston, MA, USA.

13. "C-Reactive Protein as a Predictive Outcome Marker in Aneurysmal Subarachnoid Hemorrhage". K.N. Fountas, **T.G. Machinis**, M. Kassam, V. Dimopoulos, C. Feltes, A.A. Grigorian, J.S. Robinson. American Association of Neurological Surgeons/Cerebrovascular Section, February 2006.

14. "Dose-Volume Relation of Adverse Radiation Effects in Radiosurgery of Anaplastic Glioma European Gamma Knife User Society Annual Meeting, November 2009, Moscow, Russia.

15. "Comprehensive malignant glioma management". Centro de Investigaciones Médico-Quirúrgicas – Neuroscience Symposium, December 2009, Havana, Cuba.

16. "Tripolar Spinal Cord Stimulation for Management of Low Back Pain". **T.G. Machinis**, M. Bradley, R. Stanger, W. C. Broaddus, K. Holloway. 26th Annual AANS/CNS Meeting on Disorders of the Spine and Peripheral Nerves, Feb 17-25 2010, Orlando, FL, USA.

17. "Late Gamma Knife Surgery for the Treatment of Recurrent Malignant Glioma WHO III + IV". American Association of Neurological Surgeons, 78th Annual Meeting, May 2010, Philadelphia, USA.

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18. "Endoscopic cyst fenestration followed by Gamma Knife Radiosurgery as a radical treatment of cystic craniopharyngioma". 14th International Symposium on Pediatric Neuro-Oncology, June 2010.
19. "The use of Gamma-knife surgery in palliative care of relapsing ependymomas with durable quality of life". 14th International Symposium on Pediatric Neuro-Oncology, June 2010.
20. "Gamma Knife surgery history, principles, treatment procedure and indications. Gamma Knife surgery various indications - the Karolinska experience". November 2010, Tyumen, Russia.
21. "Gamma Knife surgery for clivus Chordomas and Chondrosarcomas". EGKS, November 2010, Istanbul, Turkey.
22. "Gamma Knife Radiosurgery for Benign Tumors - Results and comparison to open surgery, single session treatments and fractionate treatments". 34º CONGRESO LATINOAMERICANO DE NEUROCIRUGIA, November 2010, El Salvador.
23. "Increased survival utilizing late Gamma Knife surgery for high grade glioma", 2º Congresso Brasileiro de Radiocirurgia, November 2010, Porto Alegre, Brasil.
24. "Gamma Knife surgery various indications and dose planning examples - the Karolinska experience". 2º Congresso Brasileiro de Radiocirurgia, November 2010, Porto Alegre, Brasil.
25. "Overview Leksell Gamma Knife surgery". World Federation of Neurosurgical Societies Educational Course, May 2011, Astana, Kazakhstan.
26. "Leksell Gamma Knife surgery in a comprehensive neurosurgical environment". International Congress of Neurologists and Neurosurgeons, August 2011, Cholpon-Ata, Kyrgyzstan.
27. "Adverse Radiation Effects in the treatment of malignant glioma". European Gamma Knife User Society Annual Meeting, November 2011, Moscow, Russia.
28. "Carotid Artery Endarterectomy vs. Carotid Artery Stenting for Restenosis after Endarterectomy. A Systematic Review and Meta-analysis". American College of Cardiology, 2018.
29. "Endovascular Reconstruction of Extracranial Traumatic Internal Carotid Artery Dissections: a Systematic Review". LINC 2019, 22-25 January 2019, Leipzig, Germany.

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30. "Endovascular Reconstruction of Extracranial Traumatic Internal Carotid Artery Dissections: a Systematic Review". SCVS 2019, 47th Annual Symposium, 16-20 March 2019, Boca Raton, Florida.
31. "Synchronous Carotid Endarterectomy and Coronary Artery Bypass (CABG) versus staged Carotid Artery Stenting and CABG for Patients with Concomitant Severe Coronary and Carotid Stenosis: a Systematic Review and Meta-analysis". **3rd best Paper Award**, 18th Panhellenic Congress by Cardiological Society of Northern Greece, Thessaloniki, Greece, May 2019.
32. "Synchronous Carotid Endarterectomy and Coronary Artery Bypass (CABG) versus staged Carotid Artery Stenting and CABG for Patients with Concomitant Severe Coronary and Carotid Stenosis: a Systematic Review and Meta-analysis". Leading Innovative Vascular Education (LIVE), Larissa, Greece, May 2019.
33. "Synchronous vs Staged Carotid Endarterectomy and Coronary Artery Bypass Graft for patients with concomitant severe Coronary and Carotid SArtery Stenosis: a Systematic Review and Meta-analysis". **3rd best Paper Award**, 18th Panhellenic Congress by Cardiologocal Society of Northern Greece, Thessaloniki, Greece, May 2019.
34. "Synchronous vs Staged Carotid Endarterectomy and Coronary Artery Bypass Graft for patients with concomitant severe Coronary and Carotid SArtery Stenosis: a Systematic Review and Meta-analysis". Leading Innovative Vascular Education (LIVE), Larissa, Greece, May 2019.
35. "The Role of Pre-operative Embolization in Carotid Body Tumor Surgery: a Systematic Review and Meta-analysis". Leading Innovative Vascular Education (LIVE), Larissa, Greece, May 2019.
36. "Risk Factors for Restenosis Following Carotid Revascularization: a Meta-analysis of Hazard Ratios". Comngress of Neurological Surgeons Annual Meeting, San Francisco, CA, USA, Oct. 22 2019.

INTERNATIONAL CONGRESS PROCEEDINGS:

"Kypoplasty in Acute Osteoporotic Vertebral Body Fractures with Immediate and Early Post-operative Pain Relief despite no Significant Restoration of Vertebral Body Height". C. Feltes, K. Fountas, **T. Machinis**, L. Nikolakakos, V. Dimopoulos, R. Davydov, M. Kassam, J. Robinson, K. Johnston. 13th World Congress of Neurological Surgeons, June 2005, Marrakesh, Morocco.

2. "Carotid Artery Endarterectomy vs. Carotid Artery Stenting for Restenosis after Endarterectomy. A Systemmatic Review and Meta-analysis". American College of Cardiology, 2018.

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Scientific Interests

Brain and spine tumors, spine surgery, cerebrovascular/endovascular surgery, trigeminal neuralgia, hydrocephalus, peripheral nerves.

Languages:

1. Greek
2. English
3. Swedish
4. French
5. German

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