

Stanford

Antonio Meola

Clinical Instructor, Neurosurgery

CLINICAL OFFICES

- **Stanford Neuroscience Health Center**

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Bio

CLINICAL FOCUS

- Neurosurgery

ACADEMIC APPOINTMENTS

- Clinical Instructor, Neurosurgery

HONORS AND AWARDS

- Visiting Professor Guest Speaker, NIH Clinical Center, Bethesda, Washington, DC (10/2016)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board Certified, European Association of Neurosurgical Societies (EANS) (2018 - present)
- Member, European Association of Neurosurgical Societies (EANS), Radiosurgery Section (2017 - present)
- Member, European Association of Neurosurgical Societies (EANS), Neuro-oncology Section (2017 - present)

PROFESSIONAL EDUCATION

- Board Certification: Neurosurgery, European Association of Neurological Sciences (2018)
- Fellowship: Brigham and Women's Hospital Anesthesiology Residency (2016) MA
- PhD Training: University of Florence (2016) Italy
- Fellowship: Cleveland Clinic Foundation (2017) OH
- Residency: University of Pisa (2015) Italy
- Internship: University of Pisa (2009) Italy
- Medical Education: University of Pisa (2008) Italy
- Clinical Fellow, Cleveland Clinic Foundation, Cleveland, OH , Neurosurgical Oncology (2017)
- Clinical Fellow, Brigham and Women's Hospital, Harvard Medical School, Boston, MA , Image-guided Neurosurgery (2016)
- Ph.D., University of Florence, Italy (2016)
- Residency, University of Pisa, Italy , Neurosurgery (2015)
- Research Fellow, University of Pittsburgh (UPMC), Pittsburgh, PA , Neurosurgical Anatomy (2015)
- M.D., University of Pisa, Italy (2008)

LINKS

- Lead DBS software: <http://www.lead-dbs.org>

Publications

PUBLICATIONS

- **"Magnetic Particle Imaging (MPI) in Neurosurgery".** *World neurosurgery*
Meola, A., Rao, J., Chaudhary, N., Song, G., Zheng, X., Chang, S. D.
2019
- **In Reply: Commentary: Peritumoral Edema to Tumor Volume Ratio: A Strong Survival Predictor for Posterior Fossa Metastases.** *Neurosurgery*
Meola, A., Chow, K. K., Chang, S. D.
2019
- **Bilateral Vestibular Schwannomas in Neurofibromatosis Type 2.** *The New England journal of medicine*
Meola, A., Chang, S. D.
2018; 379 (15): 1463
- **Automatic Removal of False Connections in Diffusion MRI Tractography Using Topology-Informed Pruning (TIP).** *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*
Yeh, F., Panesar, S., Barrios, J., Fernandes, D., Abhinav, K., Meola, A., Fernandez-Miranda, J. C.
2018
- **Commentary: Peritumoral Edema/Tumor Volume Ratio: A Strong Survival Predictor for Posterior Fossa Metastases.** *Neurosurgery*
Chow, K. K., Meola, A., Chang, S. D.
2018
- **Letter: Navigation-Linked Heads-Up Display in Intracranial Surgery: Early Experience.** *Operative neurosurgery (Hagerstown, Md.)*
Meola, A., Chang, S. D.
2018; 14 (6): E71–E72
- **Population-averaged atlas of the macroscale human structural connectome and its network topology.** *NeuroImage*
Yeh, F., Panesar, S., Fernandes, D., Meola, A., Yoshino, M., Fernandez-Miranda, J. C., Vettel, J. M., Verstynen, T.
2018; 178: 57–68
- **Gold Nanoparticles for Brain tumor imaging: a Systematic Review** *FRONTIERS IN NEUROLOGY*
Meola, A., Rao, J., Chaudhary, N., Sharma, M., Chang, S. D.
2018; 9: 328
- **Stereotactic radiosurgery for jugular foramen schwannomas: an international multicenter study.** *Journal of neurosurgery*
Kano, H., Meola, A., Yang, H. C., Guo, W. Y., Martínez-Alvarez, R., Martínez-Moreno, N., Urgosik, D., Liscak, R., Cohen-Inbar, O., Sheehan, J., Lee, J. Y., Abbassy, M., Barnett, et al
2018; 129 (4): 928–36
- **Long-Term Outcome Following Stereotactic Radiosurgery for Glomus Jugulare Tumors: A Single Institution Experience of 20 Years.** *Neurosurgery*
Sharma, M., Meola, A., Bellamkonda, S., Jia, X., Montgomery, J., Chao, S. T., Suh, J. H., Angelov, L., Barnett, G. H.
2018; 83 (5): 1007–14
- **Correlation Between the Residual Tumor Volume, Extent of Tumor Resection, and O6-Methylguanine DNA Methyltransferase Status in Patients with Glioblastoma.** *World neurosurgery*
Sharma, M., Bellamkonda, S., Mohapatra, S., Meola, A., Jia, X., Mohammadi, A., Angelov, L., Barnett, G. H., Vogelbaum, M., Ahluwalia, M. S.
2018; 116: e147–e161
- **Stereotactic Radiosurgery for Intracranial Ependymomas: An International Multicenter Study.** *Neurosurgery*
Kano, H., Su, Y. H., Wu, H. M., Simonova, G., Liscak, R., Cohen-Inbar, O., Sheehan, J. P., Meola, A., Sharma, M., Barnett, G. H., Mathieu, D., Vasas, L. T., Kaufmann, et al
2018

- **Image Registration to Compensate for EPI Distortion in Patients with Brain Tumors: An Evaluation of Tract-Specific Effects.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*
Albi, A., Meola, A., Zhang, F., Kahali, P., Rigolo, L., Tax, C. M., Ciris, P. A., Essayed, W. I., Unadkat, P., Norton, I., Rathi, Y., Olubiyi, O., Golby, et al
2018; 28 (2): 173–82
- **A new head-mounted display-based augmented reality system in neurosurgical oncology: a study on phantom.** *Computer assisted surgery (Abingdon, England)*
Cutolo, F., Meola, A., Carbone, M., Sinceri, S., Cagnazzo, F., Denaro, E., Esposito, N., Ferrari, M., Ferrari, V.
2017; 22 (1): 39–53
- **Magnetic Resonance Thermometry and Laser Interstitial Thermal Therapy for Brain Tumors.** *Neurosurgery clinics of North America*
Silva, D., Sharma, M., Juthani, R., Meola, A., Barnett, G. H.
2017; 28 (4): 525–33
- **Augmented reality in neurosurgery: a systematic review.** *Neurosurgical review*
Meola, A., Cutolo, F., Carbone, M., Cagnazzo, F., Ferrari, M., Ferrari, V.
2017; 40 (4): 537–48
- **Stereotactic radiosurgery for intracranial hemangiopericytomas: a multicenter study.** *Journal of neurosurgery*
Cohen-Inbar, O., Lee, C. C., Mousavi, S. H., Kano, H., Mathieu, D., Meola, A., Nakaji, P., Honea, N., Johnson, M., Abbassy, M., Mohammadi, A. M., Silva, D., Yang, et al
2017; 126 (3): 744–54
- **Impact of cervicothoracic region stereotactic spine radiosurgery on adjacent organs at risk.** *Neurosurgical focus*
Sharma, M., Bennett, E. E., Rahmathulla, G., Chao, S. T., Koech, H. K., Gregory, S. N., Emch, T., Magnelli, A., Meola, A., Suh, J. H., Angelov, L.
2017; 42 (1): E14
- **Automated white matter fiber tract identification in patients with brain tumors.** *NeuroImage. Clinical*
O'Donnell, L. J., Suter, Y., Rigolo, L., Kahali, P., Zhang, F., Norton, I., Albi, A., Olubiyi, O., Meola, A., Essayed, W. I., Unadkat, P., Ciris, P. A., Wells, et al
2017; 13: 138–53
- **Human Connectome-Based Tractographic Atlas of the Brainstem Connections and Surgical Approaches** *NEUROSURGERY*
Meola, A., Yeh, F., Fellows-Mayle, W., Weed, J., Fernandez-Miranda, J. C.
2016; 79 (3): 437–54
- **The nondecussating pathway of the dentatorubrothalamic tract in humans: human connectome-based tractographic study and microdissection validation** *JOURNAL OF NEUROSURGERY*
Meola, A., Comert, A., Yeh, F., Sivakanthan, S., Fernandez-Miranda, J. C.
2016; 124 (5): 1406–12
- **Teaching NeuroImages: Stroke mimicking thalamotomy: Cessation of tremor following ventrolateral thalamic ischemia.** *Neurology*
Horn, A., Kipp, L., Meola, A., Kühn, A. A., Leithner, C.
2016; 87 (17): e208–e209
- **Letter to the Editor.** *Brain injury*
Meola, A.
2016; 30 (13-14): 1515–16
- **The Controversial Existence of the Human Superior Fronto-Occipital Fasciculus: Connectome-Based Tractographic Study With Microdissection Validation** *HUMAN BRAIN MAPPING*
Meola, A., Comert, A., Yeh, F., Stefanescu, L., Fernandez-Miranda, J. C.
2015; 36 (12): 4964–71
- **Peduncles Without Cerebellum: The Cerebellar Agenesis** *EUROPEAN NEUROLOGY*
Meola, A., Fernandez-Miranda, J. C.
2015; 74 (3-4): 162
- **Hydrocephalus following bilateral dumbbell-shaped c2 spinal neurofibromas resection and postoperative cervical pseudomeningocele in a patient with neurofibromatosis type 1: a case report.** *Evidence-based spine-care journal*
Montemurro, N., Cocciaro, A., Meola, A., Lutzemberger, L., Vannozzi, R.

2014; 5 (2): 136–38

- **Management and outcome of high-grade multicentric gliomas: a contemporary single-institution series and review of the literature.** *Acta neurochirurgica*
di Russo, P., Perrini, P., Pasqualetti, F., Meola, A., Vannozzi, R.
2013; 155 (12): 2245–51
- **Primary dumbbell-shaped lymphoma of the thoracic spine: a case report.** *Case reports in neurological medicine*
Meola, A., Perrini, P., Montemurro, N., di Russo, P., Tiezzi, G.
2012; 2012: 647682