



CURICULUM VITAE

Tommaso Tufo MD PhD.



Email:

Tel:

Nationality:

DOB:

Languages: Italian (Native), English, Spanish, Portuguese (Professional Proficiency)

Driving License: Italian (European) & International

SUMMARY

An active Senior Neurosurgeon with over 10 years' experience, serving the Central Italian Region and City of Rome. Considered as a leader in field, with additional specialist expertise in Functional and Epilepsy Surgery. Managing over 2500 complex neurosurgical procedures, including neuro-oncology, minimal invasive spine and complex trauma cases.

Currently full time employed as a Senior Consultant Neurosurgeon and holding an academic position with Policlinico Gemelli University Hospital, one of the largest Private Hospitals in Italy and Europe, which covers over 3000 neurosurgical elective cases per year (both Private and Public) in addition to operating in multiple private clinics outside of the region and consulting for forensic medicine institute of University of Foggia (Italy) in legal medical issues and Professor of Neurosurgery for Residency Neurosurgical Program and adjunct professor of Neurosurgery at Catholic University of Rome.

Consultant and principal investigator in two ongoing European clinical trials (Abbott, Boston Scientific) with all scientific activity supported by the network of Movement Disorders and Epilepsy Group of the city of Rome (Sapienza, Tor Vergata, Campus Biomedico University Hospital) and including collaborations with foreign universities including Instituto Neurologico de Curitiba INC (Brazil), Sirio-Libanes Hospital of Sao Paolo (Brazil), Walton Centre Institute (UK), University of Toronto (Canada).

Contributed in 15 articles for publications relating to neurosurgery, neurology and brain stimulation. Organized the Italian national meeting about neuromodulation and movement disorder at the Catholic University of Rome for 5 consecutive years. Elected in 2019 in International Neuromodulation Society Board, Italian Chapter. Invited as a speaker 24 international conferences & seminars worldwide for presentations neuromodulation, with 21 abstracts and 19 posters presented at International neurosurgical and neurology meetings.

Skills & Experience

Log Book Record (Public Sector Procedures Only – last updated to August 2019)

1070 Procedures - Cranial Surgeries (brain tumors, meningiomas, microscopic and endoscopic skull base procedures, APC angle tumors, lobectomy, trauma)

982 Procedures - Spinal Surgeries (spinal instability degenerative and traumatic fixation, cervical and lumbar discectomy, laminectomy and minimal invasive decompression, percutaneous and minimal invasive approach and fusion, spinal and medullary tumors, spinal trauma, pain)

105 Procedures - Peripheral Nerve Surgeries & Trigeminal Neuralgia Surgical Procedures (nerve decompression, MVD, rhizotomy)

Skills & Specialism

- Head and spinal trauma surgery
- Microsurgery and minimal invasive surgery of brain tumors and awake craniotomy
- Brain and spinal cord surgery with intra operative monitoring (IOM), intraoperative imaging guided procedures and intra-op CT
- Deep brain stimulation frameless and robotic for movement disorders and epilepsy
- Thalamotomy (RF and Thermal therapy system)
- Trigeminal neuralgia and hemifacial spasm microsurgery, Radiofrequency ablation and balloon compression for trigeminal neuralgia
- Microsurgery and minimal invasive surgery for cervical and lumbar disc herniation
- Minimal invasive technique, spinal navigation and intraoperative CT surgery for spinal decompression and fusion
- Complex pain surgery, deep brain, pump implant, cordotomy and Spinal cord stimulation (SCS)
- Neurosurgical treatment for spasticity, Pump Implant, SCS, rhizotomy and drez lesion
- Shunt and endoscopic procedures for hydrocephalus
- Epilepsy surgery – lesionectomy, lobectomy, DBS and Vagal nerve stimulation

Employment History

2017 to Date: **Senior Consultant Neurosurgeon and Head of Functional and Epilepsy Surgery Group
Policlinico Gemelli Foundation IRCSS University Hospital, Rome, Italy**

- Adjunct Professor of Neurosurgery at Catholic University of Rome – Medicine and Surgery
- Special Focus in Skull Base Surgery & Endoscopy Surgery, Neuro Oncology, Functional, Epilepsy and Chronic Pain
- Day to day clinical responsibilities and on-call duties, including the supervision of residents and management of complex trauma cases and vascular surgeries referred to Gemelli Hospital from across the wider region.
- Professor of Neurosurgery for Residency Neurosurgical Program, Catholic University of Rome.
- Leading the Functional, Epilepsy and Complex Pain group at 'Policlinico Gemelli Foundation University Hospital – IRCSS from 2017
- Director of local chapter of European Young Neurologist's Training Program and member of INS (International Neuromodulation Society) Young Neuromodulators Committee.
- Leading and directing a team of technical staff for intraoperative neuro-monitoring and EEG recordings and he is improving in his unit the use of neuro-navigation and new technologies in functional and epilepsy surgeries procedures.

- Research project on neuro-navigation and frameless DBS and new technology application in percutaneous procedures for trigeminal neuralgia
- Leading Movement Disorder and Functional Neurosurgery Unit at Catholic University of Rome and Movement Disorders Group of Rome Area and Lazio.
- Elected (2019) - Board Member of Italian Chapter of International Neuromodulation Society (INS)

2012–2016: **Consultant Neurosurgeon** (Neuro Oncology, Epilepsy and Spine, General Neuro Surgery)
Neuromed Institute IRCSS, Sapienza University of Rome, Italy
Clinical responsibilities and on-call duties. Involved in research on Brain Mapping, Functional MRI and Awake Craniotomy

2014: **Senior Fellowship** (Functional and Epilepsy Surgery)
Walton Centre Institute NHS Trust, Liverpool, UK

2010–2012: **Consultant Neurosurgeon** (Functional, Epilepsy and Chronic Pain, General Neurosurgery)
Policlinico Gemelli Foundation University Hospital, Italy

2007–2008: **Senior Fellowship** (Neurotrauma, Skull Base and Neuro Oncology)
UNICAMP University of Campinas and Instituto Neurologico De Curitiba (Brazil)

EDUCATION & TRAINING

2015 **PhD Neuroscience**
Catholic University of Rome, Italy

2014 **Senior Fellowship - Functional and Epilepsy Surgery**
(Under direction of prof P. Eldridge and Prof J. Farah)
Walton Centre Institute NHS Trust, Liverpool, United Kingdom

2013 **Internship - Neurotrauma**
(under direction of Professor Servadei)
University Hospital of Parma, Italy

2008 **Senior Fellowship Neurotrauma and Skull Base Surgery**
(Under direction of Professor R. Ramina, Professor M.V. Maldaum)
UNICAMP University of Campinas Brazil and Curitiba Neurological Institute, Brazil

2009 **Residency**
(under direction of Professor Concezio Di Rocco)
Polyclinic Gemelli University Hospital, Catholic University of Rome, Italy

2005 **M.D.**
Policlinico Gemelli University Hospital, Catholic University of Rome,
Medical School, Italy

LICENCES & PROFESSIONAL MEMBERSHIPS

2005	Italian and European State Medical License License n. BN 2665 (30.03.2005)
2009	Italian and European Board of Neurological Surgery
2011	UK Specialist Register GMC r n. 7172142 (reg. date 26 Jul 2011)
2011	Belgium Medical Visa, Specialist in Neurosurgery National Health Department of Professionals

Membership

CNS - Congress of Neurological Surgeons
SINCH - Società Italiana di Neurochirurgia
INS - International Neuromodulation Society

AWARDS & RECOGNITION

2011	Premio di studio Fondazione Toniolo' Award, Italy New technology in Deep Brain Stimulation
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CLINICAL TRIALS & FUNDING

ABBOT	Preference Study - PREFERENCE_EU1256, Catholic University of Rome, Italy Start of enrollment 2016
BOSTON SCIENTIFIC	European registry DBS, PROT A4012, Catholic University of Rome, Italy Start of enrollment 2018

PUBLICATIONS

1. Piano C, Fasano A, Daniele A, Di Giuda D, Ciavarro M, **Tufo T**, Zinno M, Bentivoglio AR, Cioni B. Extradural motor cortex stimulation improves gait, speech, and language in a patient with pure akinesia. Brain Stimulation. 2018 Sep-Oct;11(5):1192-1194.doi:10.1016/j.brs.2018.05.014. Epub 2018 May 22. PubMed PMID:29885860.
2. Cioni B, **Tufo T**, Bentivoglio A, Trevisi G, Piano C
Motor cortex stimulation for movement disorders. J Neurosurgery Sci. 2016 Jun;60(2):230-41. Epub 2016 Mar 15. Review. PubMed PMID: 26977635..
3. Rigante L, **Tufo T**, Scoppettuolo G, Donato C, Mangiola A.
Brain abscess developing in a non-operated spontaneous intracerebral haemorrhage: a case report and literature review. Turk Neurosurg. 2013;23(6):835-9. doi: 10.5137/1019-5149.JTN.6591-12.2. PubMed PMID: 24310475.



4. Bentivoglio AR, Fasano A, Piano C, Soleti F, Daniele A, Zinno M, Piccininni C, De Simone C, Policicchio D, **Tufo T**, Meglio M, Cioni B.
Unilateral extradural motor cortex stimulation is safe and improves Parkinson disease at 1 year. *Neurosurgery*. 2012 Oct;71(4):815-25. PubMed PMID: 22791032.
5. Visocchi M, Della Pepa GM, Esposito G, **Tufo T**, Zhang W, Li S, Zhong J.
Spinal cord stimulation and cerebral hemodynamics: updated mechanism and therapeutic implications. *Stereotact Funct Neurosurg*. 2011;89(5):263-74. doi: 10.1159/000329357. Epub 2011 Aug 19. Review. PubMed PMID: 21860253.
6. Montano N, Signorelli F, **Tufo T**, Sioletic S, Lauretti L, Pallini R, Maira G, Doglietto F. Teaching Neurolmages: extralesional bleeding of conus medullaris cavernoma. *Neurology*. 2010 Jul 6;75(1):e1. doi: 10.1212/WNL.0b013e3181e6209b. PubMed PMID: 20603476.
7. Visocchi M, Pietrini D, **Tufo T**, Fernandez E, Di Rocco C.
Pre-operative irreducible C1-C2 dislocations: intra-operative reduction and posterior fixation. The "always posterior strategy". *Acta Neurochir (Wien)*. 2009 May;151(5):551-9;discussion 560. doi: 10.1007/s00701-009-0271-z. Epub 2009 Apr 1. PubMed PMID:19337686.
8. Di Rocco F, Doglietto F, **Tufo T**, Ciampini A, Lauretti L, Fernandez E.
Posttraumatic immobilization in flexion of a congenital valgus elbow and cubital tunnel syndrome-case report. *Surg Neurol*. 2009 Jun;71(6):709-12, discussion 712. doi: 10.1016/j.surneu.2008.01.020. Epub 2008 Apr 18. PubMed PMID: 18423544.
9. Massimi L, **Tufo T**, Di Rocco C.
Management of optic-hypothalamic gliomas in children: still a challenging problem. *Expert Rev Anticancer Ther*. 2007 Nov;7(11):1591-610. Review. PubMed PMID: 18020927.
10. Fernandez E, Lauretti L, **Tufo T**, D'Ercole M, Ciampini A, Doglietto F. End-to-side nerve neuroorrhaphy: critical appraisal of experimental and clinical data. *Acta Neurochir Suppl*. 2007;100:77-84. Review. PubMed PMID: 17985551.
11. Pancucci G, Massimi L, Caldarelli M, D'Angelo L, Sturiale C, Tamburrini G, **Tufo T**.
[Pediatric craniopharyngioma: long-term results in 61 cases]. *Minerva Pediatr*. 2007 Jun;59(3):219-31. Italian. PubMed PMID: 17519867.
12. Fernandez E, Mannino S, **Tufo T**, Pallini R, Lauretti L, Albanese A, Denaro L.
The adult "paraplegic" rat: treatment with cell graftings. *Surg Neurol*. 2006 Mar;65(3):223-37. PubMed PMID: 16488239.
13. Fernandez E, Lauretti L, Denaro L, Montano N, Doglietto F, Novegno F, Falchetti ML, **Tufo T**, Maira G, Pallini R.
Motoneurons innervating facial muscles after hypoglossal and hemi hypoglossal-facial nerve anastomosis in rats. *Neurol. Res*. 2004 Jun;26(4):395-400. PubMed PMID: 15198865.
14. Lavallo L¹, D'elia A², Arcella A³, Esposito V⁴, **Tufo T**⁵.
Atypical presentation of meningioangiomatosis: it can bleed! *J Neurosurg Sci*. 2019 Dec;63(6):749-753. doi: 10.23736/S0390-5616.18.04324-2
15. Fabbri M, Zibetti M, Rizzone MG, Giannini G, Borellini L, Stefani A, Bove F, Bruno A, Calandra-Buonaura G, Modugno N, Piano C, Pepe A, Ardolino G, Romagnolo A, Artusi CA, Berchiolla P, Montanaro E, Cortelli P, Luigi R, Eleopra R, Minafra B, Pacchetti C, **Tufo T**, Cogiamanian F, Lopiano L.
Should We Consider Deep Brain Stimulation Discontinuation in Late-Stage Parkinson's Disease? *Mov Disord*. 2020 May 25. doi: 10.1002/mds.28091. Online ahead of print. PMID: 32449542



Cioni B, De Simone C, **Tufo T**, Meglio M. Motor cortex stimulation for movement disorders. In *Handbook of Stereotactic and Functional Neurosurgery*. Cap. 11. Edizioni Minerva Medica

REFERENCES

Prof. Alessandro Olivi

Director of the division of neurosurgical oncology, vice director of the department of neurosurgery, medical director of the Neurosurgery Critical Care Unit, and head of the Johns Hopkins Bayview Medical Center's department of neurosurgery. Professor and director of neurosurgery at Catholic University of Rome and chair of the Neurosurgery Institute at the Agostino Gemelli Hospital.

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Prof. Ricardo Ramina

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