

Dott. Giannantonio Spena

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Divisione e Clinica Neurochirurgica, Spedali Civili e Università di Brescia

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INCARICO ATTUALE

DA Dicembre 2011

Dirigente Medico di I livello, Spedali Civili e Università di Brescia

FORMAZIONE

Ottobre 1999

Laurea "cum laude" presso la Seconda Università degli Studi di Napoli.

2001-2005

Corso di Specializzazione in Neurochirurgia presso la Clinica Neurochirurgica, Università di Genova.

FELLOWSHIP

Novembre 2005- Aprile 2006

Awake surgery and brain mapping for cerebral tumors in eloquent areas. Prof. H. Duffau, Neurosurgery Division, Pitié-Salpêtrière Hospital, Paris, France

INCARICHI E RUOLI

Maggio 2003- Maggio 2004

Dirigente Medico I livello tempo determinato presso Neurochirurgia Pediatrica, IRCCS G. Gaslini, Genova

Ottobre 2004 - Ottobre 2005

Assistente e Chef de Clinic, Clinica Neurochirurgica, Ospedale Universitario di Ginevra, Svizzera

Giugno 2006- Novembre 2011

Dirigente Medico Primo livello tempo indeterminato, Divisione di Neurochirurgia, Ospedale Civile, Alessandria

da settembre 2013

Professore a Contratto nel corso di Specializzazione in Neurochirurgia, Università di Milan

da luglio 2014

riconoscimento ospedaliero in qualità di esperto chirurgia del basiranno

Surgical experience

Il Dott. Spena ha effettuato più di 2500 interventi chirurgici dei quali 1780 come primo operatore.

I suoi campi di maggior interesse e pratica chirurgica sono:

- gliomi cerebrali con ampia esperienza in chirurgia a paziente sveglio con mapping intraoperatorio
- tumori della fossa posteriore (collaborazione routinaria con il team ORL per approcci laterali alla base del cranio)
- Malattia di Chiari I e siringomielia. Patologia della cerniera cranio-occipitale
- Chirurgia spinale strumentata

PUBBLICAZIONI SCIENTIFICHE

<http://www.ncbi.nlm.nih.gov/pubmed/?term=SPENA+G>

1. Bonioli E, Hennekam RC, **Spena G**, Morcaldi G, Di Stefano A, Serra G, Bellini C. Aplasia cutis congenita, skull defect, brain heterotopia, and intestinal lymphangiectasia. *Am J Med Genet.* Jan 15;132(2):202-5, 2005
2. **Spena G**, Gatignol P, Capelle L, Duffau H. Superior longitudinal fasciculus subserves vestibular network in humans. *Neuroreport* Sep 18;17(13):1403-6, 2006
3. Zona G, **Spena G**, Sbaiffi PF, Spaziante R. A meningioma with islets of extramedullary myeloid metaplasia: case report. *Neurosurgery* Aug; 61(2):418-9, 2007
4. **Spena G**, Fasel J, De Tribolet N, Radovanovic I. Subfrontal endoscopic fenestration of lamina terminalis: an anatomical study. *Minimally Invasive Neurosurgery*, 6 vol 51, 313-374, 2008
5. **Spena G**, Bernucci C, Garbossa D, Valfrè V, Versari P. Clinical and radiological outcome of craniocervical osteo-dural decompression for Chiari I-associated syringomyelia. *Neurosurgical Review*, DOI 10.1007/s10143-010-0260-y
6. **Spena G**, Garbossa D, Barletta L, Prevost C, Versari P. Preoperative chemotherapy for infiltrative low-grade oligoastrocytoma: a useful strategy to maximize surgical resection. *Neurol Med Chir (Tokio)* 50, 408-411, 2010
8. Szelényi A, Bello L, Duffau H, Fava E, Feigl GC, Galanda M, Neuloh G, Signorelli F, Sala F. Intraoperative electrical stimulation in awake craniotomy: methodological aspects of current practice. Workgroup for Intraoperative Management in Low-Grade Glioma Surgery within the European Low-Grade Glioma Network. *Neurosurg Focus*. 2010 Feb;28(2):E7. doi: 10.3171/2009.12.FOCUS09237. Review.
9. **Spena G**, Nava A, Cassini F, Pepoli A, Bruno M, D'Agata F, Cauda F, Sacco K, Duca S, Barletta L, Versari P. Preoperative and intraoperative brain mapping for the resection of eloquent-area tumors. A prospective analysis of methodology, correlation, and usefulness based on clinical outcomes. *Acta Neurochir (Wien)*. 2010 Nov;152(11):1835-46.
10. **Spena G**, Versari P. Bubbles in the head: a new method for brain retraction during craniotomy. *Acta Neurochir (Wien)*. 2011 Sep;153(9):1807-11.
11. **Comment** on "Long-term outcome of surgical management of adult Chiari I malformation". El-Ghandour N. *Neurosurg Rev* 2012; 35:537-547

12. **Comment** on "The endoscopic endonasal approach for the management of craniopharyngiomas involving the third ventricle. Cavallo LM, Solari D, Esposito F, Cappabianca. *Neurosurg Rev* 2013;36(2):340
13. **Comment** on "Less invasive transjugular approach with Fallopian bridge technique for facial nerve protection and hearing preservation in surgery of gloms jugular tumors. Nonaka Y, Fukushima T, Watanabe K, Friedman AH, McElveen JT, Cunningham CD, Zomorodi AR. *Neurosurg Rev* 2013; 36(4):579-86
14. **Spena G**, Garbossa D, Panciani PP, Griva F, Fontanella MM. Purely subcortical tumors in eloquent areas: Awake surgery and cortical and subcortical electrical stimulation (CSES) ensure safe and effective surgery. *Clin Neurol Neurosurg*. 2013 Mar 2.
15. Garbossa D, Panciani PP, Angeleri R, Battaglia L, Tartara F, Ajello M, Agnoletti A, Versari P, Ducati A, Fontanella M, **Spena G**. A retrospective two-center study of antiepileptic prophylaxis in patients with surgically treated high-grade gliomas. *Neurol India*. 2013 Mar-Apr;61(2):131-7
16. Beez T, Boge K, Wager M, Whittle I, Fontaine D, **Spena G**, Braun S, Szelényi A, Bello L, Duffau H, Sabel M; European Low Grade Glioma Network. Tolerance of awake surgery for glioma: a prospective European Low Grade Glioma Network multicenter study. *Acta Neurochir (Wien)*. 2013 Jul;155(7):1301-8. doi: 10.1007/s00701-013-1759-0. Epub 2013 May 21.
17. Nicolosi F, Nodari G, **Spena G**, Roca E, Migliorati K, Esposito G, Stefini R, Fontanella M, Panciani PP. Cerebral Wegener's granuloma: surgery mandatory for diagnosis and treatment. *Case Rep Neurol Med*. 2013;2013:750391. doi: 10.1155/2013/750391. Epub 2013 May 16.
18. **Comment** on "Posterior condylar canals and posterior condylar emissary veins- a microsurgical and CT anatomical study. Matsushima K, Kawashima M, Matsushima T, Hiraishi T, Noguchi T, Kuraoka A. *Neurosurg Rev* 2014; 37(1): 115-126
19. Fontanella M, Benevello C, Panciani PP, Ronchetti G, Bacigaluppi S, Stefini R, **Spena G**, Garbossa D, Ducati A. Automated end-to-side anastomosis to the middle cerebral artery with C-Port xA: A feasibility study on human cadavers. *Asian J Neurosurg*. 2013 Apr;8(2):74-7. doi: 10.4103/1793-5482.116377
20. Crobeddu E, Panciani PP, Garbossa D, Pilloni G, Fornaro R, Ronchetti G, **Spena G**, Tartara F, Ducati A, Fontanella M. Cerebrovascular diseases in the elderly: the challenge of multiple aneurysms. *Int J Neurosci*. 2014 Aug;124(8):573-6
21. **Spena G**, D'Agata F, Panciani PP, Buglione di Monale M, Fontanella MM. Supratentorial gliomas in eloquent areas: which parameters can predict functional outcome and extent of resection? *PLoS One*. 2013 Dec 5;8(12):e80916
22. Ronchetti G, Panciani PP, Stefini R, **Spena G**, Fontanella MM. Acute supratentorial ischemic stroke: when surgery is mandatory. *Biomed Res Int*. 2014;2014:624126
23. Fontanella MM, Panciani PP, **Spena G**, Roca E, Migliorati K, Ambrosi C, Sturiale CL, Retta FS. Professional athletes and cerebral cavernomas: an obstacle to overcome. *J Sports Med Phys Fitness*. 2014 Mar 18
24. Tardivo V, Crobeddu E, Pilloni G, Fontanella M, **Spena G**, Panciani PP, Berjano P, Ajello M, Bozzaro M, Agnoletti A, Altieri R, Fiumefreddo A, Zenga F, Ducati A, Garbossa D. Say "no" to spinal cord injury: is nitric oxide an option for therapeutic strategies? *Int J Neurosci*. 2014 May 27
25. Aneurismal bone cysts. Commentary. **Spena G**. *J Neurosci Rural Pract*. 2014 Jan;5(1):58. No abstract available.
26. Agnoletti A, Mencarani C, Panciani PP, Buffoni L, Ronchetti G, **Spena G**, Tartara F, Buglione M, Pagano M, Ducati A, Fontanella M, Garbossa D. Surgery in cerebral metastases: are numbers so important? *J Cancer Res Ther*. 2014 Jan-Mar;10(1):79-83
27. **Spena G**, Costi E, Panciani PP, Roca E, Migliorati K, Fontanella MM. Acute functional reactivation of the language network during awake intraoperative brain mapping. *Neurocase*. 2014 May 7:1-5

28. Buglione M, Spiazzi L, Saiani F, Costa L, Shehi B, Lazzari B, Uccelli C, Pasinetti N, Borghetti P, Triggiani L, Donadoni L, Pedretti S, Magrini SM; Neuro-Oncology Group, Spedali Civili, Brescia University, Brescia, Italy. Three-dimensional conformal radiotherapy, static intensity-modulated and helical intensity-modulated radiotherapy in glioblastoma. Dosimetric comparison in patients with overlap between target volumes and organs at risk. *Tumori*. 2014 May-Jun;100(3):272-7
29. **Spena G**, Panciani PP, Fontanella MM. Resection of supratentorial gliomas: the need to merge microsurgical technical cornerstones with modern functional mapping concepts. An overview. *Neurosurg Rev*. 2014 Oct 21
30. Fontanella MM, Fazio M, Francione A, Bacigaluppi S, Griva F, Visocchi M, Panciani PP, Bergomi R, **Spena G**. Pre-symptomatic cervical myelopathy: should we operate or should we observe? What is the chance of spinal cord injury from an accident? *J Neurosurg Sci*. 2014 Jun;58(2 Suppl 1):15-22
31. **Spena G**, Panciani PP, Costi E, Nicolosi F, Fontanella MM. Minimally invasive surgery for thoracic and lumbar spinal fractures: rationale for treatment. *J Neurosurg Sci*. 2014 Jun;58(2 Suppl 1):23-7
32. Ajello M, Garbossa D, Fiumefreddo A, Marengo N, Bozzaro M, Tartara F, Zenga F, Pilloni G, Panciani PP, **Spena G**, Berjano P, Fontanella M, Ducati A. Do stand alone cervical interbody spacers pose any advantage over plate and screws? *J Neurosurg Sci*. 2014 Jun;58(2 Suppl 1):49-53
33. Crobeddu E, Garbossa D, Pilloni G, Bozzaro M, Berjano P, Gontero P, Fiorito C, Panciani PP, **Spena G**, Zenga F, Tartara F, Fontanella M, Ducati A. Management of vascular and ureteral complications after lumbar discectomy. *J Neurosurg Sci*. 2014 Jun;58(2 Suppl 1):107-12.
34. Bacigaluppi S, Zona G, Secci F, **Spena G**, Mavilio N, Brusa G, Agid R, Krings T, Ottonello G, Fontanella M. Diagnosis of cerebral vasospasm and risk of delayed cerebral ischemia related to aneurysmal subarachnoid haemorrhage: an overview of available tools. *Neurosurg Rev*. 2015 Mar 4
35. Stefani R, Zenga F, Esposito G, Bolzoni A, Tartara F, **Spena G**, Ambrosi C, Fontanella MM. Following the canyon to reach and remove olfactory groove meningiomas: surgical experience. *J Neurosurg Sci*. 2015 Mar 10
36. Buglione M, Borghetti P, Pedretti S, Triggiani L, Fontanella MM, **Spena G**, Grisanti S, Liserre R, Poliani LP, Gipponi S, Spiazzi L, Magrini SM. Post-surgical therapeutic approaches to glioblastoma patients submitted to biopsy (BA) or "partial" resection (PR): the possibilities to treat also them without renunciations. Study from the Brescia Neuro-Oncology Group. *Radiol Med*. 2015 Mar 15
37. Rofes A, **Spena G**, Miozzo A, Fontanella M, Miceli G. Advantages and disadvantages of intraoperative language tasks in awake surgery: a three-task approach for prefrontal tumors. *J Neurosurg Sci* 2015 Jul 10 [Epub ahead of print]

CAPITOLI DI LIBRI

Giannantonio Spena, Antonio Pepoli, Marcella Bruno, Federico D'Agata, Franco Cauda, Katuscia Sacco, Sergio Duca and Pietro Versari (2011). Multimodal Approach to the Surgical Removal of Gliomas in Eloquent Brain Regions, *Advances in the Biology, Imaging and Therapies for Glioblastoma*, Prof. Clark Chen (Ed.), ISBN: 978-953-307-284-5, InTech, DOI: 10.5772/24446. Available from: <http://www.intechopen.com/books/advances-in-the-biology-imaging-and-therapies-for-glioblastoma/multimodal-approach-to-the-surgical-removal-of-gliomas-in-eloquent-brain-regions>

PARTECIPAZIONI A CONGRESSI E CORSI COME SPEAKER INVITATO

VIII Congress of the Neurological and Neurosurgical Italian Society (SNO). Surgery of tumors in eloquent areas. 24.01.2009, Civile Hospital, Alessandria, Italy

Surgery of intracranial metastases. Faculty of Medicine, University of Eastern Piedmont, Novara, 9.2.2009

Awake surgery for tumors in eloquent areas. Italian Society of Neurology, Cuneo, 6-7, 11. 2009

Up to date on rare diseases. Surgical treatment of Chiari malformation and syringomyelia. Civil Hospital, Alessandria 08.02.2010

Neuroimaging of brain tumors: the neurosurgeon's needs. Koelliker Hospital, Turin, 15.05.2010

Cervical Corpectomy step-by-step. In "Cadaver lab of cervical spine approaches". Department of Anatomy, University of Wien, Austria, 15-17-02.2011

Awake Brain Surgery: from surgery to research. University of Turin, 14.06.2013

Chiari syndrome and syringomyelia. Clinical and surgical aspects. Domus Salutis, Brescia, 15.05.2013

Awake surgery and intraoperative mapping: neurooncological usefulness and model for brain functions study. Lecture at the Physiology PhD school, University of Milan, 25.05.2013

Glioblastoma: up to date on novel therapies. University of Milan, 15.04.2014

Surgical approaches to the lumbar spondylolysis: PLF, PLIF, TLIF. how we do in Brescia. Spine section of SINCH, Catania, 5-6-7.06.2014

Spinal Intramedullary tumors. In "Management strategies and surgical techniques in spine surgery: avoid and prevent failures". Ferrara, 12.12.2014

DTI challenge. Italian chapter of the ISMRM. Verona, 16-17.04.2015

Il dott. Spena è reviewer per:

- Clinical Neurology and Neurosurgery
- Neurosurgical Review
- Human Brain Mapping
- Clinical Anatomy
- Journal of Neuroscience in Rural practice

Componente dell'advisory board del **Journal of Neurosurgical Sciences**

Membro di:

- Società Italiana di Neurochirurgia (SINCH)
- European association of neurosurgical societies (EANS)
- Congress of Neurological Surgeon (CNS)
- Section on Tumors (American association of neurological surgeons, AANS)

Referenze

Prof. N. de Tribolet, former Director of the Clinic of Neurosurgery, University of Geneva, Switzerland

Prof. H. Duffau, Director of the Clinic of Neurosurgery, Gui-de –Chauliac Hospital, Montpellier, France

Prof. Marco Maria Fontanella, Director of the Clinic of Neurosurgery, Spedaly Civili e Università di Brescia, Italy

Prof. A. Ducati, Director of the Clinic of Neurosurgery, University of Turin, Italy

Prof. R. Spaziante, former Director of the Clinic of Neurosurgery of the University of Genoa, Italy

Dr. P. Versari, former Direcotr of Division of Neurosurgery, Civil Hospital of Alessandria, Italy

Firmato

Giannantonio Spena, MD

A handwritten signature in black ink, appearing to read 'G. Spena', written in a cursive style.