

DRA. SONIA MUÑOZ DONAT

ACADEMIC BACKGROUND

- 1998-2005: Graduate in Medicine and Surgery (Universitat Autònoma de Barcelona, Vall d'Hebron University Hospital www.vhebron.net).
- 2002: Internship, University Hospital Mútua Terrassa (www.mutuaterassa.es).
- February – May 2010: Internship Hospital Sant Joan de Déu Barcelona. (www.hsjdbcn.es). Pediatric Neurosurgery.
- 2006-2011: Residency in Neurological Surgery, University Hospital Mútua Terrassa (Universitat de Barcelona).
- 5-month stay in the United States from September 2010 to January 2011: University of California San Francisco (3 months), New York Presbyterian Hospital-Weill Cornell University (2 months).

PRESENT POSITION

- Aptima Centre Clínic – Mútua Terrassa: ATLAS Spine Institute (2015 - present).
- Consorci Hospitalari de Vic - Clínica de Vic: ATLAS Spine Institute (2021 - present).

SPECIALTY: Neurosurgery. PROFESSIONAL CATEGORY:

- Executive Director of the ATLAS Spine Institute MAILING ADDRESS:

Avinguda del Vallès 40A ZIP CODE: 08230

CITY: Matadepera (Barcelona) TELEPHONE: 0034667784843

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Previous collaborations with other centers:

- Attending Neurosurgeon from 2009 to 2015: Teknon Medical Center (Barcelona)
- Attending Neurosurgeon from 2006 to 2021: Hospital Universitari Parc Taulí

(Sabadell), Universitat Autònoma de Barcelona (www.tauli.cat).-

- Attending Neurosurgeon at the Neurosurgery Department from May 2011 to May 2024: Mútua Terrassa University Hospital (UB, Terrassa). Member of the following units: spine surgery, skull base neurosurgery.

LANGUAGES

- Spanish and Catalan: mother and father languages.
- English: speaking, reading and writing correctly.
- Italian: speaking regular, reading correctly, writing regular.
- French: speaking regular, reading good, writing regular.

CONGRESSES, COURSES AND SEMINARS

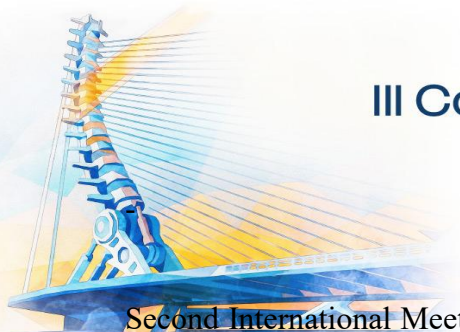
- XII International Symposium of Intracranial Pressure and Cerebral Hemodynamic Monitoring. Barcelona, 2006
- Diagnosis and treatment in patients with traumatic brain injury. Barcelona, 2006.
- Introduction to Cerebral Microdialysis. Barcelona, 2006.
- Neurocritic patient monitoring and treatment. Barcelona, 2006.
- Update Conference in Cerebrovascular Disorders. Terrassa, 2007.
- XII National Congress of the Spanish Society of Neurosurgery. Zaragoza, 2007.
- First International Meeting on Advanced Transnasal Endoscopic Skull Base Surgery, ENT and Neurosurgical Team Approach. Terrassa-Barcelona, 2007.
- Intraoperative MRI and CT in Neurosurgery. Zaragoza, 2007.
- Intracranial endoscopy. Zaragoza, 2007.
- Treatment of glial tumors: present and future. Santander, 2007.
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Neuroanatomy and neurosurgical approaches in 3-D. Sevilla, 2007.

- CEE Codman Forum. Prague, 2008.
- Endoscopic Fronto-Basal Approach Hands-on Cadaver Workshop . Barcelona, 2008.
- Update in diagnosis and treatment of adult chronic hydrocephalus. Barcelona, 2008.
- XIII National Congress of the Spanish Society of Neurosurgery. Valencia, 2008.
- Update in nervous system traumatic injury. Madrid, 2008.
- Midas Course. Barcelona, 2009.
- Communicative skills in medicine. Badalona, 2009.
- Cerebral ischemia. Barcelona, 2009.
- Chronic pain Management. Barcelona, 2009.
- Intervertebral disk degenerative disease. Girona, 2009.
- Spine surgery. Badalona, 2009.

- XIX Scientiic Conference of the Catalan Society of Physical Medicine and Rehabilitation. "Biomechanics in Rehabilitation". Terrassa, 2009.
- XIV National Congress of the Spanish Society of Neurosurgery. Sevilla, 2009.
- Second International Meeting on Advanced Transnasal Endoscopic Skull Base Surgery, ENT and Neurosurgical Team Approach. Terrassa-Barcelona, 2009.
- Update in Spine Disorders. Madrid, 2009.
- Comprehensive Review Course on Radiofrequency Interventional Pain Procedures and Hands-on Cadaver Workshop. London, December 2009.
- XIX Scientiic Conference of the Catalan Society of Physical Medicine and Rehabilitation. "Biomechanics in Rehabilitation". Terrassa, 2009.

- XIV Congr s Nacional de la Societat Espanyola de Neurocirurgia. Sevilla, 2009.



Second International Meeting on Advanced Transnasal Endoscopic Skull Base Surgery, ENT and Neurosurgical Team Approach. Terrassa-Barcelona, 2009.

- Course for neurosurgical residents "La Cristalera": Update on spine pathology. Madrid, 2009. SENECS.
- Comprehensive Review Course on Radiofrequency Interventional Pain Procedures and Hands-on Cadaver Workshop. London, December 2009.
- XV National Congress of the Spanish Society of Neurosurgery. La Corunya, 2010.
- Congress of Neurological Surgeons, San Francisco (USA) 2010.
- Seventh edition of neurovascular pathology meeting of the Spanish Society of Neurosurgery. Barcelona, 1 to 4 October 2014.
- Cadaver laboratory course in anterior and lateral approaches to lumbar spine. June 17, 2015. Faculty of Medicine, University Miguel Hernandez, Alicante.
- BioSkills – Lumbar Lateral Interbody Fusion using Timberline. Feb 29th and March 1st, 2016. Parsipanny, New Jersey, USA.
- Masterclass in Lumbar Spine Dynamic Stabilization. September 15th and 16th,

2016. Winterthur, Switzerland.

- Minimally invasive spine surgery course: DiscFx and Endoscopic approaches to the lumbar spine. Faculty of Medicine, Universidad CEU San Pablo, Madrid. November 22 and 23, 2018.

- Bioskills Training Course: DTRAX MISS System for posterior cervical spine. European Anatomy Campus. Düsseldorf. May 10th 2019.

- Advanced endoscopic approaches of the lumbar spine. Faculty of Medicine, CEU San Pablo University, Madrid. December 13 and 14, 2019.

ORAL COMUNICATIONS IN CONGRESSES AND COURSES

- “Brain abscess by Actinomyces”. Conference of the Catalan Society of Neurosurgery. Barcelona, 2006.

- “Idiopathic Hypertrophic Pachimeningitis. Presentation of four cases and review of the literature”. XII National Congress of the Spanish Society of Neurosurgery. Zaragoza, 2007.

- “Spontaneous Dorsal Spinal Cord Herniation: surgical video and review of the literature”. XII National Congress of the Spanish Society of Neurosurgery. Zaragoza, 2007.

- “Twenty six months of clinical and radiological stability in a patient with Glioblastoma Multiforme treated by Surgery and Gliadel”. Conference about brain

tumors treatment: update in high grade gliomas. Barcelona, 2007.

- “Cervical spine tuberculosis: diagnosis and surgical treatment”. Conference of the Catalan Society of Neurosurgery. Barcelona, 2008.
- “Combined endovascular and surgical treatment in a vertebro-basilar union giant aneurysm: surgical video and review of the literature”. XIII National Congress of the Spanish Society of Neurosurgery. Valencia, 2008.
- “Anaplastic Pilocytic Astrocytoma: review of the concept of malignancy in cerebellar astrocytomas”. Conference of the Catalan Society of Neurosurgery. Barcelona, 2008.
- “Endoscopic Surgery of the Skull Base: an ENT-Neurosurgeon combined approach”. Congress of the Spanish Society of ENT and Cervicofacial Disorders. Tarragona, 2008.
- “Aneurysmatic SAH: global results and vasospasm management in our institution between 2006 and 2008”. XIV National Congress of the Spanish Society of Neurosurgery. Sevilla, 2009.
- “Combined supra-infratentorial trans-sinus approach in large lesions of the pineal region: presentation of a case (surgical video) and review of the literature”. XV National Congress of the Spanish Society of Neurosurgery. A Coruña, 2010.
- “The role of Neurosurgery in the spastic patient: neuroablative techniques”. III Update sessions on botulinum toxin and Rehabilitation - SERMEF. Madrid, 2010.
- “Cranial dural arterio-venous fistulas: prognostic factors and therapeutic management”. XIX National Congress of the Spanish Society of Neurosurgery. Cádiz, 2014.
- “Neurophysiological monitoring in spinal cord endovascular procedures. Importance of the provocation test”. V Congress of the Spanish Association of

Intraoperative Neurophysiological Monitoring. Alicante, June 2015.

- Spinal arterio-venous fistulas: our experience with a multidisciplinary approach in a Neurovascular Malformation Pathology Unit. XXIII National Congress of Neurosurgery - SENECA. 17, 18 and 19 May 2018, Barcelona.
- First International Exoscopic Neurosurgery Forum. Hamburg, December 1 and 2, 2022. Chairman of the Neuro-Spine Surgery section. Oral presentation: Exoscopic Tubular Approaches to the Lumbar Spine: beyond the microscope and the endoscope.
- First SEMISS - SECPEC Meeting: Exoscopic Tubular Approaches to the Lumbar Spine: beyond the microscope and the endoscope. November 9th and 10th, 2023. Madrid.
- Director of the Olympus MET Spine Surgery with Exoscope. November 20th and 21st, 2023. Barcelona.
- Second International Exoscopic Neurosurgery Forum. Hamburg, December 5 and 6, 2024. Chairman of the Neuro-Spine Surgery section. Oral presentation: Exoscopic Tubular Approaches to the Lumbar Spine: beyond the microscope and the endoscope.
- NEURORAQUIS GIRONA 4-6 March 2026: "Exoscopic Tubular Approaches to the Lumbar Spine: beyond the microscope and the endoscope".

POSTERS IN CONGRESSES AND COURSES

- "Paraplegia as presentation of spinal dural arteriovenous malformation: complete remission after endovascular treatment." XIII National Congress of the Spanish Society of Neurosurgery. Valencia, 2008.
- "Vertebral and Sphenoidal Plasmocytomas: six cases and review of the literature." XIII National Congress of the Spanish Society of Neurosurgery. Valencia, 2008.
- "Metastasis of lung adenocarcinoma on intracranial meningioma." XV National Congress of the Spanish Society of Neurosurgery. A Coruña, 2010.
- "Supratentorial Schwannomas." XV National Congress of the Spanish Society of Neurosurgery. A Coruña, 2010.
- "Is it feasible to functionally identify SMA during sleep surgery?" XIX National Congress of the Spanish Society of Neurosurgery. Cádiz, 2014.
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"Cystic schwannoma of the abducens nucleus: a case report." XIX National Congress of the Spanish Society of Neurosurgery. Cádiz, 2014.

- "Intraoperative neurophysiological monitoring (NIO) during the treatment of medullary arteriovenous malformations (AVMs): a case report." International Congress of Neurosurgery. Neuroiberia 2016. Estoril. Portugal.

- "Objectives of the surgical treatment of trigeminal neuralgia: pain control and functional preservation of the nerve." XXIII National Congress of Neurosurgery - SENE. 17, 18 and 19 May 2018, Barcelona.

- "Pseudotumor cerebri syndrome secondary to compression of the transverse sinus by an epidural hematoma: report of a case." XXIII National Congress of Neurosurgery - SENE. 17, 18 and 19 May 2018, Barcelona.

BOOK CAPTERS AND PUBLICATIONS

- Prevedello DM, Carrau RL, Kassam AB, Casajuana E, Massegur H: Advanced Skull Base Endoscopic Surgery: Risks and Complications in ENT and Head and Neck Surgery. Prevention and Treatment. E.U.R.O.M.E.D.I.C.E. Ediciones Médicas, Badalona, 2008.

- De Quintana C, Casajuana E, Molet J, Garcia Bach M: Great occipital nerve stimulation in refractory cluster headache: presentation of four cases and review of the literature". Rev Neurol 2010 [in press].

- E. Casajuana Garreta, E. Ayats Díaz, B. Oliver Abadal: Degeneration of the lumbar intervertebral disc: anatomy, physiopathology and pathophysiology. Pain 2011; 26 (2): 069-075.

- Roca G, Mayol S, García E, Casajuana E, Quintana S: Preliminary comparative study between the Simplified Motor Score and the Glasgow Coma Scale in adult patients

treated for head trauma in the extra-hospital setting. *Emergencies* 2015;27:185-188.

- Casajuana E. General considerations about atlantoaxial dislocation management. *J Orthop Allied Sci* 2019;7:2-3.
DOI: 10.4103/joas.joas_18_19.

TEACHING ACTIVITIES

- Postgraduate nursing courses in neurosurgery: “External CSF drainage devices”. University Hospital Mútua Terrassa, 2008.
- Postgraduate nursing courses in neurosurgery: “Traumatic brain injury: global management”. Corporació Sanitaria Parc Taulí, 2009.
- Postgraduate nursing courses in neurosurgery: “Spine disorders”. University Hospital Mútua Terrassa, 2010.
- Collaboration with the Anatomical Laboratory of the Universitat autònoma de Barcelona from 2007 to 2011 (www.uab.es).
- Postgraduate course in neurosurgery for nurses: "Pathophysiology of the CSF and external ventricular and lumbar drains". University Hospital Mútua Terrassa, 2008.
- Neurosurgery Postgraduate Course for Nurses: "Head Trauma: Global Management". Hospital Universitari Parc Taulí de Sabadell, 2009.
- Neurosurgery Postgraduate Course for Nurses: "Spinal Pathology". University Hospital Mútua Terrassa, 2010.
- Professor of Neurosurgery at the Faculty of Medicine, Universitat Autònoma de Barcelona - Hospital Universitari Parc Taulí (Sabadell), from 2011 to 2019.
- Co-Director of the course and workshop “Endoscopic surgery of the lumbar spine for the treatment of disc herniations”. February 1st and 4th 2019. Hospital Universitari Mútua Terrassa.
- Director of the First Course on Exoscopic Tubular Approaches to the Lumbar Spine. Terrassa (Barcelona). June 8th 2023.

III Congreso Bianual
SECPEC
Valencia 2024
24/25 septiembre

MÍNIMA INVASIÓN:
LA EVOLUCIÓN LÓGICA

Director of the Second Course on Exoscopic Tubular Approaches to the Lumbar Spine. Terrassa (Barcelona). April 17th 2024.

Maximización de un
nuevo estándar en columna

- Introducción a la microcirugía exoscópica tubular lumbar. CREBA - Institut de Recerca Biomèdica de Lleida. 9 y 10 de Octubre 2025.

STAYS DURING THE NEUROSURGICAL RESIDENCY PROGRAM

- UCSF (University of California San Francisco) Medical Center, as guest of Doctor Mitchel S. Berger (3 months). Main iields of interests during the stay: neuro-oncology (Dr. Berger, Dr. Parsa) and neuro-vascular surgery (Dr. Lawton).
- New York Presbyterian Hospital-Weill Cornell University, es guest of Doctor Philip E. Stieg (2 months). Main iields of interest during the stay: skull base surgery (Dr. Stieg, Dr. Schwartz) and spine surgery (Dr. Hartl).

PROFESSIONAL MEMBERSHIPS

- Spanish Society of Neurosurgery
- Catalan Society of Neurosurgery
- SECPEC (Sociedad Española de Cirugía Percutánea y Endoscópica de Columna): partner and board member