

François Lechanoine, MD

Consultant Neurosurgeon | Brain & Spine

Founder & CEO, NeuroNEC Brain & Spine NeuroEndoscopy

SHORT CV

JULY 2026

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PROFILE

French consultant neurosurgeon specialising in brain and spine neuroendoscopy, minimally invasive spine surgery and unilateral biportal endoscopy (UBE). He holds clinical activity in San Marino, Milan and Marseille and is active internationally as a faculty member, surgical proctor, researcher and medtech consultant. He is the Founder and CEO of NeuroNEC Brain & Spine, an innovative start-up dedicated to R&D, clinical innovation, education and sustainability in neuroendoscopy.

CURRENT APPOINTMENTS

Founder & CEO | Oct 2025 - Present

NEC Srl - NeuroNEC Innovative Start-up - San Marino

R&D, clinical innovation, medical education, simulation and sustainable neuroendoscopy.

Consultant Neurosurgeon | Jun 2026 - Present

Hôpital Privé Clairval - Marseille, France

Consultant Neurosurgeon | Aug 2025 - Present

Humanitas San Pio X Clinic - Milan, Italy

Consultant Neurosurgeon | Nov 2024 - Present

Nova Clinic - San Marino

Endoscopic cervical and lumbar spine surgery, including UBE and ERAS pathways through the Xperience Protocol

SELECTED PREVIOUS EXPERIENCE

Senior Consultant Neurosurgeon | 2021 - 2024

Maria Cecilia Hospital - GVM Care & Research - Cotignola, Italy

Senior brain and spine consultant.

Chef de Clinique Assistant | 2018 - 2020

CHU Grenoble Alpes - Grenoble, France

Neurosurgery Resident | 2012 - 2018

CHRU Tours - Tours, France

International fellowships and observerships: Busan and Bursa (UBE spine), Grenoble (skull base, vascular and spine), Barrow Neurological Institute, and Naples (paediatric and skull-base neurosurgery).

CORE EXPERTISE

- Endoscopic spine surgery and UBE
- Awake/spinal anaesthesia and ERAS
- Cervical and thoracolumbar surgery
- Intraventricular neuroendoscopy
- Hydrocephalus and arachnoid cysts
- Skull-base and transsphenoidal endoscopy
- Paediatric neurosurgery
- Brain and spinal tumours
- Neurovascular conflicts and malformations
- Surgical simulation and medical education

LEADERSHIP & INNOVATION

- Co-Founder, World Federation of Spine Endoscopy (WFSE)
- Co-Founder, European Society of Unilateral Biportal Endoscopy (ESUBE)
- Annual faculty member and tutor, International Federation of Neuroendoscopy (IFNE)
- International surgical proctor in neuroendoscopy and minimally invasive spine surgery
- Consultant/co-developer: VirtualiSurg, UpSurgeOn and Mectron
- More than 100 surgeons trained in spine endoscopy since 2023

EDUCATION & QUALIFICATIONS

MD and Neurosurgery Specialty (2018)

University of Tours, France

MSc in Surgical Sciences - Neurosciences (2017)

Paris-Créteil University, France

University Diploma in Spine Surgery (2019)

French inter-university programme

University Diploma in Vascular Neurosurgery (2017)

French inter-university programme

University Diploma in Microsurgical Techniques (2015)

École de Chirurgie du Fer à Moulin, Paris

EANS Board Examination in Neurological Surgery - Part I (2018)

European Association of Neurosurgical Societies

EuroSpine Basic Diploma (2017)

EuroSpine Foundation

ACADEMIC & SCIENTIFIC ACTIVITY

- 25 PubMed-indexed publications in spine endoscopy, neuroendoscopy, neurovascular surgery, paediatric neurosurgery and surgical simulation.
- Co-author of the Springer book chapter "Hydrocephalus and Arachnoid Cysts" (2018).
- Research on ultra-high-field MRI and 3D mapping of the human brainstem; co-developer of the WIKIBrainStem online atlas.
- International faculty, speaker and tutor at neuroendoscopy and spine endoscopy courses, workshops and congresses.
- Ongoing clinical and technological collaborations in extended reality, robotic simulation and surgical instrumentation.

INTERNATIONAL ENGAGEMENT

- International surgical proctorships supporting hospitals and teams in launching neuroendoscopy and minimally invasive spine programmes.
- Neurosurgical cooperation missions in Djibouti, including paediatric and spine surgery.
- Clinical, academic and training experience across France, Italy, San Marino, the United Kingdom, the United States, South Korea and Türkiye.

SELECTED PUBLICATIONS

2026 Infinity decompression: a stepwise biportal endoscopic over-the-top decompression - surgical technique and outcomes.

European Spine Journal

2026 No surgical site infections observed after lumbar unilateral biportal endoscopy: a multicentre retrospective series of 1,566 patients.

Brain & Spine

2026 A fixed left-sided surgeon position in unilateral biportal endoscopic surgery for lumbar disc herniation.

World Neurosurgery

2024 How to begin unilateral biportal endoscopy for segmental lumbar degenerative disease: a step-by-step guide.

Neurosurgical Review

2021 WIKIBrainStem: an online atlas to manually segment the human brainstem at the mesoscopic scale from ultrahigh-field MRI.

NeuroImage

HONOURS & AWARDS

2025 MioDottore Award - recognised as one of Italy's most appreciated neurosurgeons by patients and colleagues.

2023 LeFonti Award - Professional of the Year, Innovation and Leadership category, for minimally invasive brain and spine surgery.

2017 Pedagogic Innovation Award, French National Academy of Surgery, for the 3D Brainstem Atlas.

2017 "Chirurgien de l'avenir" Award, French National Academy of Surgery, for ultra-high-field MRI research on brainstem anatomy.

LANGUAGES

French - Native | **Italian** - Fluent | **English** - Professional

PROFESSIONAL LINKS

[LinkedIn profile](#)

[NeuroNEC Brain & Spine](#)

[Clinical website](#)