



Juan Carlos Fernandez-Miranda

Professor of Neurosurgery and, by courtesy, of Otolaryngology Head and Neck Surgery at the Stanford University Medical Center

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Stanford Neuroscience Health Center**

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Palo Alto, CA 94304

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ACADEMIC CONTACT INFORMATION

- **Admin**

Jennie Visitacion - Admin and Event Manager

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Bio

BIO

Dr. Juan Fernandez-Miranda is Professor of Neurosurgery and Surgical Director of the Stanford Brain Tumor, Skull Base, and Pituitary Centers. He is internationally renowned for his expertise in minimally invasive brain surgery, endoscopic skull base and pituitary surgery, open skull base surgery, and complex brain tumor surgery. He has performed over a thousand endoscopic endonasal operations for pituitary tumors and other skull base lesions. He is highly regarded for his innovative contributions to the development and refinement of endoscopic endonasal skull base surgery, for his ability to select the most effective and less invasive approach to each individual patient, and for his precise knowledge of the intricate anatomy of the white matter tracts required to maximize resection and minimize morbidity on high and low grade glioma patients.

Dr. Fernandez-Miranda completed neurosurgery residency at La Paz University Hospital in Madrid, Spain. Upon completion of his residency, he was awarded the Sanitas Prize to the best medical postgraduate trainee in the country. From 2005 to 2007, he underwent fellowship training in microsurgical neuroanatomy at the University of Florida under legendary neurosurgeon Albert L. Rhoton, Jr. From 2007 to 2010 he continued subspecialty clinical training in cerebrovascular surgery at the University of Virginia, and endoscopic endonasal and open skull base surgery at University of Pittsburgh Medical Center (UPMC). During his 10-year tenure at UPMC, he pioneered endoscopic endonasal approaches to highly complex pituitary and skull base tumors, developed a world-class complex brain surgery program, and led a premier training and research program on surgical neuroanatomy and skull base surgery.

In 2018, he was recruited to bring to Stanford his unique technical expertise and to collaborate with world-renowned Stanford colleagues across multiple disciplines to establish the preeminent center for comprehensive treatment of complex lesions in the brain, skull base, and pituitary regions. His top priority is to provide gentle, accurate, and safe surgery, in a team-based and compassionate approach to patient care.

CLINICAL FOCUS

- Neurosurgery
- Pituitary tumor
- Craniopharyngioma
- Meningioma
- Chordoma
- Chondrosarcoma
- Cushing's disease
- Acromegaly
- Prolactin-secreting adenoma
- Rathke's cleft cyst
- Low grade glioma
- High grade glioma
- Juvenile pylocytic astrocytoma
- Ependymoma
- Vestibular Schwannoma
- Acoustic Neuroma
- Trigeminal Schwannoma
- Esthesioneuroblastoma
- Sinonasal carcinoma
- Nasopharyngeal carcinoma
- Cholesterol granuloma
- Epidermoid cyst
- Dermoid cyst
- skull base lesion
- brain lesion
- brain tumor
- brain metastasis
- orbital tumors
- cavernous hemangioma
- Cavernous sinus lesions
- Clival lesion
- Trigeminal neuralgia
- Hemifacial spasm
- Glossopharyngeal neuralgia
- fibrous dysplasia
- Basilar Invagination
- Platibasia
- Chiari Malformation
- Brainstem lesion
- Cavernoma
- Limbic glioma
- Insular glioma
- Glomus jugulare tumor
- Pineal Tumor
- Cerebellar tumor
- L'Hermitte-Duclos disease

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Neurosurgery
- Professor - Med Center Line (By courtesy), Otolaryngology - Head & Neck Surgery Divisions
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Surgical Director, Stanford Brain Tumor Center, (2018- present)
- Co-Director, Stanford Skull Base Surgery Program, (2018- present)
- Surgical Director, Stanford Pituitary Center, (2018- present)
- Director, Surgical Neuroanatomy, Fiber Tractography, and Virtual Simulation Research Center, (2018- present)

HONORS AND AWARDS

- Honorary Visiting Professor, Tianjin Huanhu Hospital (Tianjin, China) (2018)
- Annual Faculty Teaching Award, University of Pittsburgh School of Medicine (2017)
- National Investigation Award, Barclays Foundation (2009)
- Aesculap European Research Award, EANS (European Association of Neurological Surgeons) (2008)
- Pedro Mata Award – Best Neurosurgical Research, Neurosurgical Society of Madrid (2006)
- Sanitas Award – Best Medical Post-graduate Trainee in Spain, Sanitas Foundation (2006)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Co-Founder and Vice-president, Rhoton Society (2018 - present)
- President, 1st Rhoton Society Meeting, Tianjin, China (2018 - present)
- Fellow, American College of Surgeons (2017 - present)
- Member, Acoustic Neuroma Association (2017 - present)
- Patient Engagement Committee, Pituitary Society (2017 - present)
- Editorial Board, Journal of Neurological Surgery: Skull Base (2016 - present)
- Editorial Board, Operative Neurosurgery (2015 - present)
- Member, Pituitary Society (2015 - present)
- Neuroanatomy Committee, WFNS (World Federation of Neurological Surgeons) (2015 - 2017)
- MRRC (Magnetic Resonance Research Center) committee, University of Pittsburgh (2014 - 2018)
- Editorial Board, Neurocirugia (Spanish Society of Neurosurgery) (2013 - present)
- International Outreach Committee, AANS (American Association of Neurological Surgeons) (2013 - 2015)
- NASBS Awards Committee, NASBS (North American Skull Base Society) (2013 - 2015)
- NASBS Education and Training Committee, NASBS (2013 - 2015)
- Active member, CNS (Congress of Neurological Surgeons) (2012 - present)
- Chair Management Meetings, University of Pittsburgh (2012 - 2018)
- Invited affiliate, German Skull Base Society (2010 - present)
- Member, The Cajal Club (2010 - present)
- Active member, EANS (European Association of Neurosurgical Societies) (2008 - present)
- Affiliate member, AANS (American Association of Neurological Surgeons) (2006 - present)
- Active member, SENEC (Spanish Society of Neurological Surgeons) (2004 - present)

PROFESSIONAL EDUCATION

- Fellowship: University of Pittsburgh Medical Center (2010) PA
- Fellowship: University of Virginia Medical Center (2008) VA
- Fellowship, University of Florida, McKnight Brain Institute , FL (2007)
- Residency: Hospital Universitario La Paz (2006) Spain
- Medical Education: Universidad Complutense Madrid (2000) Spain

COMMUNITY AND INTERNATIONAL WORK

- Advanced Endoscopic Skull Base Surgery Course, Shanghai
- National Skull Base Endoscope Conference, Xi'an, China
- Neurosurgery Scientific Meeting, Bangkok, Thailand
- Neuropinamar, Pinamar, Argentina
- Surgical Neuroanatomy and Techniques, Brasilia
- Endoscopy Endonasal skull base surgery course, La Paz University Hospital, Madrid, Spain
- NASBS Skull Base Summer Course, New Orleans
- 3-D Surgical Anatomy Course for Senior Residents, Houston
- Skull Base Training Course, Memphis (TN)

LINKS

- Medical Record Review: <https://stanfordhealthcare.org/second-opinion/medical-record-review.html>
- Research Center: http://med.stanford.edu/neurosurgery/research/SNFTVR_Lab.html
- Fiber Tractography: http://med.stanford.edu/neurosurgery/research/SNFTVR_Lab/tractographylab.html
- My Surgical Videos: <https://www.youtube.com/watch?v=kJa1Xal9uWA&list=PLSVqZwIZyqvt9oFHLslhYCQqi8SQGnkiy>

Research & Scholarship

CLINICAL TRIALS

- Vincristine, Dactinomycin, and Doxorubicin With or Without Radiation Therapy or Observation Only in Treating Younger Patients Who Are Undergoing Surgery for Newly Diagnosed Stage I, Stage II, or Stage III Wilms' Tumor, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Sandip Panesar

Postdoctoral Research Mentor

Sandip Panesar

Publications

PUBLICATIONS

- **Proximal Branches of the Anterior Cerebral Artery: Anatomic Study and Applications to Endoscopic Endonasal Surgery.** *Operative neurosurgery (Hagerstown, Md.)*
Najera, E., Truong, H. Q., Belo, J. T., Borghei-Razavi, H., Gardner, P. A., Fernandez-Miranda, J.
2019
- **Proposal and Validation of a Simple Grading Scale (TRANSSPHER Grade) for Predicting Gross Total Resection of Nonfunctioning Pituitary Macroadenomas After Transsphenoidal Surgery.** *Operative neurosurgery (Hagerstown, Md.)*
Mooney, M. A., Sarris, C. E., Zhou, J. J., Barkhoudarian, G., Chicoine, M. R., Fernandez-Miranda, J. C., Gardner, P. A., Hardesty, D. A., Jahnke, H., Kelly, D. F., Liebelt, B. D., Mayberg, M. R., Prevedello, et al
2019
- **Left Pan-Hippocampal Low Grade Glioma-2-Stage Transylvian Transventricular and Paramedian Supracerebellar Transtentorial Approaches: 2-Dimensional Operative Video.** *Operative neurosurgery (Hagerstown, Md.)*
Fernandez-Miranda, J. C.
2018
- **Paramedian Supracerebellar Approach in Semi-Sitting Position for Endoscopic Resection of Pineal Cyst: 2-Dimensional Operative Video.** *Operative neurosurgery (Hagerstown, Md.)*
Fernandez-Miranda, J. C.
2018
- **The medial wall of the cavernous sinus. Part 1: Surgical anatomy, ligaments, and surgical technique for its mobilization and/or resection.** *Journal of neurosurgery*
Truong, H. Q., Lieber, S., Najera, E., Alves-Belo, J. T., Gardner, P. A., Fernandez-Miranda, J. C.
2018: 1–9
- **Supratotal Resection of Residual Clival Chordoma With Combined Endoscopic Endonasal and Contralateral Transmaxillary Approaches: 2-Dimensional Operative Video.** *Operative neurosurgery (Hagerstown, Md.)*
Lavigne, P., Wang, E. W., Fernandez-Miranda, J. C.
2018

- **Bilateral coagulation of inferior hypophyseal artery and pituitary transposition during endoscopic endonasal interdural posterior clinoidectomy: do they affect pituitary function?** *Journal of neurosurgery*
Truong, H. Q., Borghei-Razavi, H., Najera, E., Igami Nakassa, A. C., Wang, E. W., Snyderman, C. H., Gardner, P. A., Fernandez-Miranda, J. C.
2018; 1–6
- **Contralateral transmaxillary corridor: an augmented endoscopic approach to the petrous apex** *JOURNAL OF NEUROSURGERY*
Patel, C. R., Wang, E. W., Fernandez-Miranda, J. C., Gardner, P. A., Snyderman, C. H.
2018; 129 (1): 211–19
- **Cavernous sinus compartments from the endoscopic endonasal approach: anatomical considerations and surgical relevance to adenoma surgery.** *Journal of neurosurgery*
Fernandez-Miranda, J. C., Zwagerman, N. T., Abhinav, K., Lieber, S., Wang, E. W., Snyderman, C. H., Gardner, P. A.
2017; 1–12
- **Extended Middle Fossa Approach With Anterior Petrosectomy and Anterior Clinoidectomy for Resection of Spheno-Cavernous-Tentorial Meningioma: The Hakuba-Kawase-Dolenc Approach: 3-Dimensional Operative Video** *OPERATIVE NEUROSURGERY*
Fernandez-Miranda, J. C.
2017; 13 (2): 281
- **Prof. Albert L. Rhoton, Jr.: His Life and Legacy** *WORLD NEUROSURGERY*
Fernandez-Miranda, J. C.
2016; 92: 590–96
- **Endoscopic Endonasal Transclival Transcondylar Approach for Foramen Magnum Meningiomas: Surgical Anatomy and Technical Note** *OPERATIVE NEUROSURGERY*
Wang, W., Abhinav, K., Wang, E., Snyderman, C., Gardner, P. A., Fernandez-Miranda, J. C.
2016; 12 (2): 153–61
- **Subcomponents and connectivity of the superior longitudinal fasciculus in the human brain** *BRAIN STRUCTURE & FUNCTION*
Wang, X., Pathak, S., Stefaneanu, L., Yeh, F., Li, S., Fernandez-Miranda, J. C.
2016; 221 (4): 2075–92
- **Anterior Transpetrosal Approach for Resection of Recurrent Skull Base Chordoma: 3-Dimensional Operative Video** *OPERATIVE NEUROSURGERY*
Chabot, J. D., Gardner, P., Fernandez-Miranda, J. C.
2015; 11 (3): 464
- **Endoscopic Endonasal Approach to the Optic Canal: Anatomic Considerations and Surgical Relevance** *OPERATIVE NEUROSURGERY*
Abhinav, K., Acosta, Y., Wang, W., Bonilla, L. R., Koutourousiou, M., Wang, E., Snyderman, C., Gardner, P., Fernandez-Miranda, J. C.
2015; 11 (3): 431–45
- **High-definition fiber tractography for the evaluation of perilesional white matter tracts in high-grade glioma surgery** *NEURO-ONCOLOGY*
Abhinav, K., Yeh, F., Mansouri, A., Zadeh, G., Fernandez-Miranda, J. C.
2015; 17 (9): 1199–1209
- **Asymmetry, connectivity, and segmentation of the arcuate fascicle in the human brain** *BRAIN STRUCTURE & FUNCTION*
Fernandez-Miranda, J. C., Wang, Y., Pathak, S., Stefaneanu, L., Verstynen, T., Yeh, F.
2015; 220 (3): 1665–80
- **Endoscopic endonasal transcavernous posterior clinoidectomy with interdural pituitary transposition** *JOURNAL OF NEUROSURGERY*
Fernandez-Miranda, J. C., Gardner, P. A., Rastelli, M. M., Peris-Celda, M., Koutourousiou, M., Peace, D., Snyderman, C. H., Rhoton, A. L.
2014; 121 (1): 91–99
- **Clival chordomas: A pathological, surgical, and radiotherapeutic review** *HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK*
Fernandez-Miranda, J. C., Gardner, P. A., Snyderman, C. H., Devaney, K. O., Mendenhall, W. M., Suarez, C., Rinaldo, A., Ferlito, A.
2014; 36 (6): 892–906
- **Endoscopic endonasal surgery for suprasellar meningiomas: experience with 75 patients** *Clinical article JOURNAL OF NEUROSURGERY*
Koutourousiou, M., Fernandez-Miranda, J. C., Stefkó, S., Wang, E. W., Snyderman, C. H., Gardner, P. A.
2014; 120 (6): 1326–39

- **Endoscopic endonasal approach for growth hormone secreting pituitary adenomas: outcomes in 53 patients using 2010 consensus criteria for remission** *PITUITARY*
Shin, S. S., Tormenti, M. J., Paluzzi, A., Rothfus, W. E., Chang, Y., Zainah, H., Fernandez-Miranda, J. C., Snyderman, C. H., Challinor, S. M., Gardner, P. A. 2013; 16 (4): 435–44
- **Deterministic Diffusion Fiber Tracking Improved by Quantitative Anisotropy** *PLOS ONE*
Yeh, F., Verstynen, T. D., Wang, Y., Fernandez-Miranda, J. C., Tseng, W. 2013; 8 (11): e80713
- **Endoscopic endonasal surgery for craniopharyngiomas: surgical outcome in 64 patients** Clinical article *JOURNAL OF NEUROSURGERY*
Koutourousiou, M., Gardner, P. A., Fernandez-Miranda, J. C., Tyler-Kabara, E. C., Wang, E. W., Snyderman, C. H. 2013; 119 (5): 1194–1207
- **Rethinking the Role of the Middle Longitudinal Fascicle in Language and Auditory Pathways** *CEREBRAL CORTEX*
Wang, Y., Fernandez-Miranda, J. C., Verstynen, T., Pathak, S., Schneider, W., Yeh, F. 2013; 23 (10): 2347–56
- **Endoscopic endonasal surgery for skull base chordomas: experience with 84 patients**
Koutourousiou, M., Gardner, P. A., Fernandez-Miranda, J. C., Henry, S. L., Wang, E. W., Snyderman, C. H. ELSEVIER SCIENCE INC.2013: S68
- **Endoscopic endonasal surgery for giant pituitary adenomas: advantages and limitations** Clinical article *JOURNAL OF NEUROSURGERY*
Koutourousiou, M., Gardner, P. A., Fernandez-Miranda, J. C., Paluzzi, A., Wang, E. W., Snyderman, C. H. 2013; 118 (3): 621–31
- **Endoscopic endonasal middle clinoidectomy: anatomic, radiological, and technical note.** *Neurosurgery*
Fernandez-Miranda, J. C., Tormenti, M., Latorre, F., Gardner, P., Snyderman, C. 2012; 71 (2 Suppl Operative): ons233–ons239
- **Endoscopic Endonasal Transclival Approach to the Jugular Tubercle** *NEUROSURGERY*
Fernandez-Miranda, J. C., Morera, V. A., Snyderman, C. H., Gardner, P. 2012; 71: 146–58
- **High-Definition Fiber Tractography of the Human Brain: Neuroanatomical Validation and Neurosurgical Applications** *NEUROSURGERY*
Fernandez-Miranda, J. C., Pathak, S., Engh, J., Jarbo, K., Verstynen, T., Yeh, F., Wang, Y., Mintz, A., Boada, F., Schneider, W., Friedlander, R. 2012; 71 (2): 430–53
- **Craniopharyngioma: A pathologic, clinical, and surgical review** *HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK*
Fernandez-Miranda, J. C., Gardner, P. A., Snyderman, C. H., Devaney, K. O., Strojjan, P., Suarez, C., Genden, E. M., Rinaldo, A., Ferlito, A. 2012; 34 (7): 1036–44
- **Endoscopic endonasal approach to cholesterol granulomas of the petrous apex: a series of 17 patients** Clinical article *JOURNAL OF NEUROSURGERY*
Paluzzi, A., Gardner, P., Fernandez-Miranda, J. C., Pinheiro-Neto, C. D., Scopel, T., Koutourousiou, M., Snyderman, C. H. 2012; 116 (4): 792–98
- **Microvascular Anatomy of the Medial Temporal Region: Part 1: Its Application to Arteriovenous Malformation Surgery** *NEUROSURGERY*
Fernandez-Miranda, J. C., de Oliveira, E., Rubino, P. A., Wen, H., Rhoton, A. L. 2010; 67 (3): 237–76
- **"Far-Medial" Expanded Endonasal Approach to the Inferior Third of the Clivus: The Transcondylar and Transjugular Tubercle Approaches** *NEUROSURGERY*
Morera, V. A., Fernandez-Miranda, J. C., Prevedello, D. M., Madhok, R., Barges-Coll, J., Gardner, P., Carrau, R., Snyderman, C. H., Rhoton, A. L., Kassam, A. B. 2010; 66 (6): ONS211–ONS219
- **Three-dimensional microsurgical and tractographic anatomy of the white matter of the human brain** *NEUROSURGERY*
Fernandez-Miranda, J. C., Rhoton, A. L., Alvarez-Linera, J., Kakizawa, Y., Choi, C., de Oliveira, E. P. 2008; 62 (6): 989–1026
- **Anatomical Variations in the Location of Veins Draining Into the Anterior Superior Sagittal Sinus: Implications for the Transbasal Approach.** *Operative neurosurgery (Hagerstown, Md.)*

Borghei-Razavi, H., Raghavan, A., Eguiluz-Melendez, A., Joshi, K., Fernandez-Miranda, J. C., Kshetry, V. R., Recinos, P. F.
2019

- **Promises and Perils of Artificial Intelligence in Neurosurgery.** *Neurosurgery*
Panesar, S. S., Kliot, M., Parrish, R., Fernandez-Miranda, J., Cagle, Y., Britz, G. W.
2019
- **Nasopharyngeal muscle patch for the management of internal carotid artery injury in endoscopic endonasal surgery.** *Journal of neurosurgery*
Wang, W., Lieber, S., Lan, M., Wang, E. W., Fernandez-Miranda, J. C., Snyderman, C. H., Gardner, P. A.
2019; 1–6
- **Validation of training levels in endoscopic endonasal surgery of the skull base** *LARYNGOSCOPE*
Lavigne, P., Faden, D., Gardner, P. A., Fernandez-Miranda, J. C., Wang, E. W., Snyderman, C. H.
2019; 129 (10): 2253–57
- **A minimally invasive endoscopic transnasal retropterygoid approach to the upper parapharyngeal space: anatomic studies and surgical implications.** *International forum of allergy & rhinology*
Liu, J., Sun, X., Liu, Q., Gu, Y., Li, H., Zheng, C., Wang, D., Fernandez-Miranda, J. C., Snyderman, C. H., Yu, H.
2019
- **Artificial Intelligence and the Future of Surgical Robotics** *ANNALS OF SURGERY*
Panesar, S., Cagle, Y., Chander, D., Morey, J., Fernandez-Miranda, J., Kliot, M.
2019; 270 (2): 223–26
- **ICAR: endoscopic skull-base surgery.** *International forum of allergy & rhinology*
Wang, E. W., Zanation, A. M., Gardner, P. A., Schwartz, T. H., Eloy, J. A., Adappa, N. D., Bettag, M., Bleier, B. S., Cappabianca, P., Carrau, R. L., Casiano, R. R., Cavallo, L. M., Ebert, et al
2019; 9 (S3): S145–S365
- **Surgical Anatomy of the Subcallosal Artery: Implications for Transcranial and Endoscopic Endonasal Surgery in the Suprachiasmatic Region** *OPERATIVE NEUROSURGERY*
Najera, E., Belo, J., Truong, H. Q., Gardner, P. A., Fernandez-Miranda, J. C.
2019; 17 (1): 79–87
- **In Reply: Neurosurgery and Manned Spaceflight** *NEUROSURGERY*
Panesar, S. S., Fernandez-Miranda, J. C., Kliot, M., Ashkan, K.
2019; 85 (1): E159–E160
- **Bilateral coagulation of inferior hypophyseal artery and pituitary transposition during endoscopic endonasal interdural posterior clinoidectomy: do they affect pituitary function?** *JOURNAL OF NEUROSURGERY*
Truong, H. Q., Borghei-Razavi, H., Najera, E., Nakassa, A., Wang, E. W., Snyderman, C. H., Gardner, P. A., Fernandez-Miranda, J. C.
2019; 131 (1): 141–46
- **Endoscopic endonasal surgery and the superior hypophyseal artery: further studies remain mandatory Response** *JOURNAL OF NEUROSURGERY*
Truong, H. Q., Fernandez-Miranda, J. C., Gardner, P. A.
2019; 131 (1): 330–31
- **Endoscopic endonasal superomedial orbitectomy: How far is safe and possible?** *The Laryngoscope*
Cardenas Ruiz-Valdepenas, E., Kaen, A., Gonzalez-Martinez, E., Gardner, P. A., Wang, E. W., Snyderman, C. H., Fernandez-Miranda, J. C.
2019
- **Clinical Experience with Secondary Endoscopic Reconstruction of Clival Defects with Extracranial Pericranial Flaps.** *Journal of neurological surgery. Part B, Skull base*
Gode, S., Lieber, S., Nakassa, A. C., Wang, E. W., Fernandez-Miranda, J. C., Gardner, P. A., Snyderman, C. H.
2019; 80 (3): 276–82
- **Proximal Branches of the Anterior Cerebral Artery: Anatomic Study and Applications to Endoscopic Endonasal Surgery** *OPERATIVE NEUROSURGERY*
Najera, E., Truong, H. Q., Belo, J., Borghei-Razavi, H., Gardner, P. A., Fernandez-Miranda, J.
2019; 16 (6): 734–42
- **In Reply: Neurosurgery and Manned Spaceflight.** *Neurosurgery*

- Panesar, S. S., Fernandez-Miranda, J. C., Kliot, M., Ashkan, K.
2019
- **Prospective validation of a molecular prognostication panel for clival chordoma** *JOURNAL OF NEUROSURGERY*
Zenonos, G. A., Fernandez-Miranda, J. C., Mukherjee, D., Chang, Y., Panayidou, K., Snyderman, C. H., Wang, E. W., Seethala, R. R., Gardner, P. A.
2019; 130 (5): 1528–37
 - **Endoscopic Endonasal Petrosectomy: Anatomical Investigation, Limitations, and Surgical Relevance** *OPERATIVE NEUROSURGERY*
Borghei-Razavi, H., Truong, H. Q., Cabral, D., Sun, X., Celtikci, E., Wang, E., Snyderman, C., Gardner, P. A., Fernandez-Miranda, J. C.
2019; 16 (5): 557–69
 - **Lateral Transorbital Versus Endonasal Transpterygoid Approach to the Lateral Recess of the Sphenoid Sinus-A Comparative Anatomic Study**
Alves-Belo, J. T., Mangussi-Gomes, J., Truong, H. Q., Cohen, S., Gardner, P. A., Snyderman, C. H., Stefko, S., Wang, E. W., Fernandez-Miranda, J. C.
OXFORD UNIV PRESS INC.2019: 600–606
 - **Endoscopic Endonasal Petrosectomy: Anatomical Investigation, Limitations, and Surgical Relevance.** *Operative neurosurgery (Hagerstown, Md.)*
Borghei-Razavi, H., Truong, H. Q., Fernandes Cabral, D. T., Sun, X., Celtikci, E., Wang, E., Snyderman, C., Gardner, P. A., Fernandez-Miranda, J. C.
2019; 16 (5): 557–70
 - **Full tractography for detecting the position of cranial nerves in preoperative planning for skull base surgery: technical note.** *Journal of neurosurgery*
Jacquesson, T., Yeh, F., Panesar, S., Barrios, J., Attye, A., Frindel, C., Cotton, F., Gardner, P., Jouanneau, E., Fernandez-Miranda, J. C.
2019: 1–11
 - **Machine Learning Versus Logistic Regression Methods for 2-Year Mortality Prognostication in a Small, Heterogeneous Glioma Database.** *World neurosurgery: X*
Panesar, S. S., D'Souza, R. N., Yeh, F., Fernandez-Miranda, J. C.
2019; 2: 100012
 - **Endoscopic endonasal transcolumotor triangle approach for adenomas invading the parapeduncular space: surgical anatomy, technical nuances, and case series** *JOURNAL OF NEUROSURGERY*
Nunes, C., Lieber, S., Truong, H. Q., Zenonos, G., Wang, E. W., Snyderman, C. H., Gardner, P. A., Fernandez-Miranda, J. C.
2019; 130 (4): 1304–14
 - **Results of a prospective multicenter controlled study comparing surgical outcomes of microscopic versus fully endoscopic transsphenoidal surgery for nonfunctioning pituitary adenomas: the Transsphenoidal Extent of Resection (TRANSSPHER) Study.** *Journal of neurosurgery*
Little, A. S., Kelly, D. F., White, W. L., Gardner, P. A., Fernandez-Miranda, J. C., Chicoine, M. R., Barkhoudarian, G., Chandler, J. P., Prevedello, D. M., Liebelt, B. D., Sfondouris, J., Mayberg, M. R., TRANSSPHER Study Group
2019: 1–11
 - **Artificial Intelligence and the Future of Surgical Robotics.** *Annals of surgery*
Panesar, S., Cagle, Y., Chander, D., Morey, J., Fernandez-Miranda, J., Kliot, M.
2019
 - **Validation of training levels in endoscopic endonasal surgery of the skull base.** *The Laryngoscope*
Lavigne, P., Faden, D., Gardner, P. A., Fernandez-Miranda, J. C., Wang, E. W., Snyderman, C. H.
2019
 - **Left Pan-Hippocampal Low Grade Glioma 2-Stage Transsylvian Transventricular and Paramedian Supracerebellar Transtentorial Approaches: 2-Dimensional Operative Video** *OPERATIVE NEUROSURGERY*
Fernandez-Miranda, J. C.
2019; 16 (3): E82
 - **Supracerebellar Infratentorial and Occipital Transtentorial Approaches to the Pulvinar: Ipsilateral Versus Contralateral Corridors** *OPERATIVE NEUROSURGERY*
Cohen-Cohen, S., Cohen-Gadol, A. A., Gomez-Amador, J. L., Alves-Belo, J. T., Shah, K. J., Fernandez-Miranda, J. C.
2019; 16 (3): 351–59
 - **Supratotal Resection of Residual Clival Chordoma With Combined Endoscopic Endonasal and Contralateral Transmaxillary Approaches: 2-Dimensional Operative Video** *OPERATIVE NEUROSURGERY*
Lavigne, P., Wang, E. W., Fernandez-Miranda, J. C.
2019; 16 (3): E88

- **Paramedian Supracerebellar Approach in Semi-Sitting Position for Endoscopic Resection of Pineal Cyst: 2-Dimensional Operative Video** *OPERATIVE NEUROSURGERY*
Fernandez-Miranda, J. C.
2019; 16 (3): E79
- **Endoscopic endonasal surgery for epidermoid and dermoid cysts: a 10-year experience** *JOURNAL OF NEUROSURGERY*
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