

Vera Vigo, MD, PhD

Basic Life Research Scientist, Neurosurgery

Publications

PUBLICATIONS

- **Inferolateral trunk: anatomical study, surgical relevance, and technical nuances in lateral transcavernous endoscopic endonasal surgery.** *Journal of neurosurgery*
Agostini, L., Rychen, J., Vigo, V., Xu, Y., Arifianto, M. R., Khan, D. Z., Xiao, L., Bex, A., Ozaydin, D., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
2026: 1-13
- **Endoscopic endonasal surgery for optic nerve sheath and optic canal meningiomas: 2D operative video.** *Neurosurgical focus: Video*
Burgos-Sosa, E., Xu, Y., Lamano, J., Vigo, V., Banu, M. A., Chang, M., Liu, C., Fernandez-Miranda, J. C.
2026; 14 (1): V12
- **Frontolateral transfalci approach to olfactory groove meningioma: rationale for surgical selection. Two-dimensional video.** *Neurosurgical focus: Video*
Burgos-Sosa, E., Vigo, V., Xu, Y., Hontiveros, B., Reza Arifianto, M., Banu, M. A., Fernandez-Miranda, J. C.
2026; 14 (1): V4
- **Cavernous Sinus Exenteration for Invasive Mucormycosis: 2-Dimensional Operative Video.** *Operative neurosurgery (Hagerstown, Md.)*
Lee, C. K., Vigo, V., Kim, L. H., Xu, Y., Gambatesa, E., Chang, M. T., Fischbein, N. J., Steinberg, G. K., Fernandez-Miranda, J. C.
2025
- **The lateral orbitotomy approach: Technical nuances and video-illustration.** *Clinical neurology and neurosurgery*
Abou-Al-Shaar, H., El Ahmadieh, T. Y., Nufiez, M., Vigo, V., Moon, J. H., Fernandez-Miranda, J. C., Cohen-Gadol, A. A.
2025; 260: 109235
- **Combination of Endoscopic Endonasal and Transcranial Approaches: Rationale, Strategies and Outcomes.** *Operative neurosurgery (Hagerstown, Md.)*
Bex, A., Vigo, V., Rychen, J., Chuang, J., Xu, Y., Gambatesa, E., Agostini, L., Fernandez-Miranda, J. C.
2025
- **Expanded Endoscopic Endonasal Approach for Resection of Abducens Nerve Schwannoma Within the Cavernous Sinus and Posterior Fossa: 2-Dimensional Operative Video.** *Operative neurosurgery (Hagerstown, Md.)*
Asmaro, K., Vigo, V., Kim, L. H., Nernekli, K., Nunez, M. A., Patel, Z. M., Fernandez-Miranda, J. C.
2025
- **Impact of adjuvant radiation therapy on outcomes in grade 2 conventional chondrosarcoma.** *Journal of neurosurgery*
Rubino, F., Zenonos, G. A., Algattas, H., Gardner, P. A., Fernandez-Miranda, J. C., Vigo, V., DeMonte, F., Raza, S. M.
2025: 1-13
- **Pituitary transposition techniques: surgical anatomy and technical nuances.** *Journal of neurosurgery*
Xu, Y., Abhinav, K., Rychen, J., Arifianto, M. R., Lee, C. K., Vigo, V., Mohyeldin, A., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
2025: 1-14
- **In Reply: Extradural and Intradural Anterior Clinoidectomy: Technical Nuances and Video Illustration.** *Operative neurosurgery (Hagerstown, Md.)*
Kohli, G., El Ahmadieh, T. Y., Vigo, V., Gurses, M. E., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
2025
- **Endoscopic endonasal transcavernous surgery for a contemporary series of 59 prolactinomas.** *Pituitary*

- Nakase, T., Ljubimov, V. A., Chang, J. J., Vogel, H., Vigo, V., Katznelson, L., Fernandez-Miranda, J. C.
2025; 28 (4): 81
- **The carotidoclinoidal ligament in endoscopic endonasal transcavernous surgery: anatomical variations, operative techniques, and case series.** *Journal of neurosurgery*
Rychen, J., Xu, Y., Agostini, L., Constanzo, F., Arifianto, M. R., Bex, A., Xiao, L., Vigo, V., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
2025: 1-12
 - **Patterns of invasion of the medial wall of the cavernous sinus by pituitary adenomas.** *Journal of neurosurgery*
Constanzo, F., Rychen, J., Lee, C. K., Decker, J. H., Fischbein, N., Johnstone, T., Ljubimov, V., Vigo, V., Fernandez-Miranda, J. C.
2025: 1-12
 - **Extradural and Intradural Anterior Clinoidectomy: Technical Nuances and Video Illustration.** *Operative neurosurgery (Hagerstown, Md.)*
Kohli, G., El Ahmadieh, T., Vigo, V., Nuñez, M. A., Gurses, M. E., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
2025
 - **The Far-Lateral Approach and Its Variants: Technical Nuances and Video Illustration.** *Operative neurosurgery (Hagerstown, Md.)*
Kohli, G., Song, M., El Ahmadieh, T. Y., Vigo, V., Gurses, M. E., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
2025
 - **Impact of Frailty on Surgical Outcomes of Patients With Cushing Disease Using the Multicenter Registry of Adenomas of the Pituitary and Related Disorders Registry.** *Neurosurgery*
Findlay, M. C., Rennert, R. C., Lucke-Wold, B., Couldwell, W. T., Evans, J. J., Collopy, S., Kim, W., Delery, W., Pacione, D. R., Kim, A. H., Silverstein, J. M., Kanga, M., Chicoine, et al
2025; 96 (2): 386-395
 - **Feasibility of robotic posterior fossa skull base surgery.** *Neurosurgical focus*
Lee, M. H., Xiao, L., Rychen, J., Rinaldi, M. P., Arifianto, M. R., Vigo, V., Fernandez-Miranda, J. C.
2024; 57 (6): E5
 - **Surgical anatomy of the inferior hypophyseal artery and its relevance for endoscopic endonasal skull base surgery.** *Journal of neurosurgery*
Xiao, L., Arifianto, M. R., Rinaldi, M., Rychen, J., Lee, M. H., Nunez, M. A., Xu, Y., Vigo, V., Cohen-Gadol, A., Fernandez-Miranda, J. C.
2024: 1-8
 - **Trigeminal Malignant Melanotic Nerve Sheath Tumor: 3-Dimensional Operative Video.** *Operative neurosurgery (Hagerstown, Md.)*
Agostini, L., Rychen, J., Vigo, V., Ljubimov, V. A., Fernandez-Miranda, J. C.
2024
 - **Early Neurosurgical Education in the Era of Distant Learning: Incorporating Virtual Reality and Cadaveric Specimen Demonstrations.** *World neurosurgery*
Savchuk, S., Vigo, V., Chidambaram, S., Nuñez, M., Anthony, D., Jansen, T., Steinberg, G. K., Fernandez-Miranda, J. C.
2024
 - **Endoscopic endonasal pituitary sacrifice for select tumors with retrochiasmatic and/or retrosellar extension: surgical anatomy, operative technique, and case series** *JOURNAL OF NEUROSURGERY*
Rychen, J., Asmaro, K., Constanzo, F., Ljubimov, V. A., Lee, M., Rinaldi, M., Xiao, L., Gambatesa, E., Xu, Y., Lee, C. K., Vigo, V., Fernandez-Miranda, J. C.
2024; 141 (3): 762-772
 - **Lateral compartment of the cavernous sinus from the endoscopic endonasal approach: anatomical considerations and surgical relevance to adenoma surgery.** *Journal of neurosurgery*
Xu, Y., Asmaro, K., Lee, C. K., Vigo, V., Mohyeldin, A., Nunez, M. A., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
2024: 1-13
 - **Multicenter Registry of Adenomas of the Pituitary and Related Disorders: Initial Description of Cushing Disease Cohort, Surgical Outcomes, and Surgeon Characteristics.** *Neurosurgery*
Little, A. S., Karsy, M., Evans, J. J., Kim, W., Pacione, D. R., Kim, A. H., Gardner, P. A., Hendricks, B. K., Sarris, C. E., Torok, I. E., Low, T. M., Crocker, T. A., Valappil, et al
2024; 95 (2): 372-379
 - **Impact of Frailty on Surgical Outcomes of Patients With Cushing Disease Using the Multicenter Registry of Adenomas of the Pituitary and Related Disorders Registry.** *Neurosurgery*

- Findlay, M. C., Rennert, R. C., Lucke-Wold, B., Couldwell, W. T., Evans, J. J., Collopy, S., Kim, W., Delery, W., Pacione, D. R., Kim, A. H., Silverstein, J. M., Kanga, M., Chicoine, et al
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- **Multicenter Registry of Adenomas of the Pituitary and Related Disorders: Initial Description of Cushing Disease Cohort, Surgical Outcomes, and Surgeon Characteristics.** *Neurosurgery*
Little, A. S., Karsy, M., Evans, J. J., Kim, W., Pacione, D. R., Kim, A. H., Gardner, P. A., Hendricks, B. K., Sarris, C. E., Torok, I. E., Low, T. M., Crocker, T. A., Valappil, et al
2024
 - **Intraoperative augmented reality fiber tractography complements cortical and subcortical mapping.** *World neurosurgery: X*
Chidambaram, S., Anthony, D., Jansen, T., Vigo, V., Fernandez Miranda, J. C.
2023; 20: 100226
 - **Endoscopic Endonasal Transtuberculum Approach for Pediatric Tuberoinfundibular Craniopharyngioma: 2-Dimensional Operative Video.** *Operative neurosurgery (Hagerstown, Md.)*
Vigo, V., Chang, J. E., Nunez, M. A., Prolo, L. M., Hwang, P. H., Fernandez-Miranda, J. C.
2023
 - **Pursuing perfect 2D and 3D photography in neuroanatomy: a new paradigm for staying up to date with digital technology** *JOURNAL OF NEUROSURGERY*
Xu, Y., Vigo, V., Klein, J., Nunez, M., Fernandez-Miranda, J. C., Cohen-Gadol, A. A., Mao, Y.
2023; 138 (6): 1766-1772
 - **Fronto-Orbitozygomatic Approach for Cavernous Sinus Hemangioma: 3-Dimensional Operative Video.** *Operative neurosurgery (Hagerstown, Md.)*
Vigo, V., Asmaro, K. P., Nunez, M. A., Fernandez-Miranda, J. C.
2023
 - **Cytodifferentiation of pituitary tumors influences pathogenesis and cavernous sinus invasion.** *Journal of neurosurgery*
Asmaro, K., Zhang, M., Rodrigues, A. J., Mohyeldin, A., Vigo, V., Nerikli, K., Vogel, H., Born, D. E., Katznelson, L., Fernandez-Miranda, J. C.
2023: 1-9
 - **Reappraisal of the anatomy of the frontotemporal branches of the facial nerve.** *Journal of neurosurgery*
Nunez, M. A., Mohyeldin, A., Marotta, D. A., Vigo, V., Asmaro, K., Xu, Y., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
2023: 1-9
 - **Extreme Far-Lateral Approach for Recurrent Chordoma: 3-Dimensional Operative Video.** *Operative neurosurgery (Hagerstown, Md.)*
Vigo, V., Asmaro, K. P., Nunez, M. A., Bobrow, A., Dodd, R. L., Desai, A., Fernandez-Miranda, J. C.
2023
 - **Pursuing perfect 2D and 3D photography in neuroanatomy: a new paradigm for staying up to date with digital technology.** *Journal of neurosurgery*
Xu, Y., Vigo, V., Klein, J., Nunez, M. A., Fernandez-Miranda, J. C., Cohen-Gadol, A. A., Mao, Y.
2022: 1-7
 - **Frontotemporal-Orbitozygomatic Approach and Its Variants: Technical Nuances and Video Illustration.** *Operative neurosurgery (Hagerstown, Md.)*
El Ahmadi, T. Y., Nunez, M., Vigo, V., Abou-Al-Shaar, H., Fernandez-Miranda, J. C., Cohen-Gadol, A. A.
2022
 - **Intracranial Breakthrough Through Cavernous Sinus Compartments: Anatomic Study and Implications for Pituitary Adenoma Surgery.** *Operative neurosurgery (Hagerstown, Md.)*
Xu, Y., Mohyeldin, A., Asmaro, K. P., Nunez, M. A., Doniz-Gonzalez, A., Vigo, V., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
2022; 23 (2): 115-124
 - **Ideal trajectory for frontal ventriculostomy: Radiological study and anatomical study.** *Clinical neurology and neurosurgery*
Vigo, V., Tassinari, A., Scerrati, A., Cavallo, M. A., Rodriguez-Rubio, R., Fernandez-Miranda, J. C., De Bonis, P.
2022; 217: 107264
 - **Endoscopic Endonasal Approach for Suprasellar Mature Teratoma in Growing Teratoma Syndrome: 2-Dimensional Operative Video.** *Operative neurosurgery (Hagerstown, Md.)*

Vigo, V., Prolo, L. M., Nunez, M. A., Nayak, J. V., Fernandez-Miranda, J. C.
2022

- **Combined transpetrosal approach for giant petroclival meningioma: 2-dimensional operative video.** *Neurosurgical focus: Video*
Vigo, V., Asmaro, K., Nunez, M. A., Moyheldin, A., Jackler, R. K., Fernandez-Miranda, J. C.
2022; 6 (2): V8
- **Microsurgical anatomy and the importance of the petrosal process of the sphenoid bone in endonasal surgery.** *Journal of neurosurgery*
Doniz-Gonzalez, A., Vigo, V., Nunez, M. A., Xu, Y., Mohyeldin, A., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
2022: 1-12
- **Anatomic Considerations in Endoscopic Pituitary Surgery.** *Otolaryngologic clinics of North America*
Low, C. M., Vigo, V., Nunez, M., Fernandez-Miranda, J. C., Patel, Z. M.
2022
- **Microsurgical anatomy of the dorsal clinoidal space: implications for endoscopic endonasal parasellar surgery.** *Journal of neurosurgery*
Xu, Y., Nunez, M. A., Mohyeldin, A., Vigo, V., Mao, Y., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
2022: 1-13
- **Microsurgical Anatomy of the Dorsal Clinoidal Space: Implications for Endoscopic Endonasal Parasellar Surgery Abstracts** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*
Xu, Y., Nunez, M. A., Mohyeldin, A., Vigo, V., Mao, Y., Cohen-Gadol, A. A., Fernandez-Miranda, J.
2022; 83
- **Microvascular anatomy of the medial temporal region.** *Journal of neurosurgery*
Xu, Y., Mohyeldin, A., Nunez, M. A., Doniz-Gonzalez, A., Vigo, V., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
1800: 1-13
- **Microsurgical anatomy of the lateral posterior choroidal artery: implications for intraventricular surgery involving the choroid plexus.** *Journal of neurosurgery*
Xu, Y., Mohyeldin, A., Doniz-Gonzalez, A., Vigo, V., Pastor-Escartin, F., Meng, L., Cohen-Gadol, A. A., Fernandez-Miranda, J. C.
2021: 1–16
- **Radiological outcomes for endovascular treatment of posterior communicating artery aneurysms: a retrospective multicenter study of the occlusion rate.** *Journal of integrative neuroscience*
Scerrati, A., Trevisi, G., Sturiale, C. L., Salomi, F., De Bonis, P., Saletti, A., Mangiola, A., Tomatis, A., Di Egidio, V., Vigo, V., Pedicelli, A., Valente, I., Rustemi, et al
2021; 20 (4): 919-931
- **The Smith-Robinson Approach to the Subaxial Cervical Spine: A Stepwise Microsurgical Technique Using Volumetric Models From Anatomic Dissections.** *Operative neurosurgery (Hagerstown, Md.)*
Vigo, V. n., Pastor-Escartín, F. n., Doniz-Gonzalez, A. n., Quilis-Quesada, V. n., Capilla-Guasch, P. n., González-Darder, J. M., De Bonis, P. n., Fernandez-Miranda, J. C.
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