

Jose Edgardo Valerio MD, FACS, FAANS

3809 East Coquina Way Weston, Florida 33332 Phone: (216) 526-6037

jevalerio@me.com

EDUCATION:

- CLEVELAND CLINIC FOUNDATION BRAIN TUMOR INSTITUTE
Clinical Fellowship in Neurosurgery Oncology
- CLEVELAND CLINIC FOUNDATION BRAIN TUMOR INSTITUTE
Clinical Scholar in Neurosurgery Oncology
- CASE WESTERN RESERVE UNIVERSITY
Fellowship of cerebrovascular and physiology research and stroke
- UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO
Specialty in Neurological Surgery, Chief Resident at the Mexican Social Security Institute's National Medical Center 21 Century, Academic Average of 9 over 10
- UNIVERSIDAD DE COSTA RICA
Medical Internship year in the hospitals affiliated with the University. Chief of Interns in the Surgery Rotation. Academic average of 9 over 10
- UNIVERSIDAD AUTONOMA DE GUADALAJARAMD (Medicine and Surgery)
graduated on February 1995, with an academic average of 8.7 over 10.

CERTIFICATIONS:

- FACS- FELLOW AMERICAN COLLEGE OF SURGEONS
- AANS- FELLOWSHIP CERTIFICATE
- ECFMG CERTIFIED
- MEXICAN BOARD CERTIFIED OF NEUROLOGICAL SURGERY
- NEUROSURGERY ONCOLOGY FELLOWSHIP CERTIFICATE
- NEUROSURGERY ONCOLOGY CLINICAL SCHOLAR CERTIFICATE
- OHIO MEDICAL BOARD CERTIFICATE
- OHIO MEDICAL LICENSE
- FLORIDA MEDICAL LICENSE
- ACTIVE MEMBER OF THE CONGRESS OF NEUROLOGICAL SURGERY
- ACTIVE MEMBER OF THE ASSOCIATION OF NEUROLOGICAL SURGEONS
- COUNSEL OF BRAIN TUMOR RESEARCH FROM GOVERNMENT OF FLORIDA

PROFESSIONAL ACTIVITIES:

- . Counselor of the Brain Tumor Research in the Government of Florida
- . Secretary of the Neurosurgical Society of Latino America in USA and Canada
- . Secretary of the Brain Tumor section of the Federation of Latino America Neurosurgery (FLANC)
- . Member of the International Committee of the Brain Tumor Section for the AANS/CNS and the World Federation of Neurosurgery President of the Chapter of Young Neurosurgeons of the FLANC

MEDICAL NEUROSURGERY EXPERIENCE:

HOSPITAL REGIONAL DE PEMEX

Neurological and Spine surgeon Veracruz State, Mexico at the Mexican Petroleum affiliated hospital. (**Faculty and Staff Position**).

CLEVELAND CLINIC FLORIDA

Neurosurgery Oncology and Spine Surgery

(Neurosurgery Staff) MIAMI NEUROSURGICAL INSTITUTE

Private Practice

ACADEMIC EXPERIENCE:

1995 Hospital de los Venados General surgery resident

1996 National Medical Center 21 Century (IMSS) Neurology and Neurosurgical post Surgical Management of the patient

1997 National Medical Center 21 Century (IMSS) Neuroradiology, Intensive care, Neuropathology and Neurosurgery

1998 National Medical Center 21 Century (IMSS) Hospital of Trauma Magdalena de la Salinas General Neurosurgery, Trauma Neurosurgery and Intensive Care

1999 National Medical Center 21 Century (IMSS) National Medical Center La Raza (IMSS) Hospital November 20 (ISSSTE) Vascular, Oncology, Functional Neurosurgery, Radio surgery and Spine

2001 National Medical Center 21Century (IMSS) National Medical Center La Raza (IMSS)

Skull Base Surgery, Orthopedic and Neurological Spine.

2002-2004 Case Western Reserve University, University Hospitals of Cleveland USA

Fellow of Neurosurgery in Cerebrovascular and Physiology Research

2004-2005 Case Western Reserve University, University Hospitals of Cleveland USA

Research Associate of Neurosurgery

2006-2007 Cleveland Clinic Foundation

Basic Research Fellow of Neurosurgery Oncology

2007-2009 Cleveland Clinic

Translational Research and Clinical Training of Neurosurgery Oncology

2009-2010 Cleveland Clinic

Clinical Trials and Advanced Clinical Training of Neurosurgery Oncology

RESEARCH EXPERIENCE:

Miami Neuroscience Center at Larkin Community Hospital

IRB Protocol LCH-1-022015, "Brain pathology– a registryPI- Jose E Valerio MD, FAANS –Co-Investigators . Marcos A Sanchez Gonzalez MD, PhD , Andres M Alvarez MD, PhD
Clinical Research Design: Andres M Alvarez MD, PhD
Statistical Analysis: Andres M Alvarez MD, PhD

Presentations

International

- . **2015 EANS- 15th Europe Academy of Neurological Surgery, annual Meeting, October 2015, Madrid Spain**

Title: A-743-0035-00247

Prospective, cohort study evaluating the outcomes of percutaneous balloon compression in

the management of secondary trigeminal neuralgia in Multiple Sclerosis

Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, MSc, PhD; Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf, MD

- . **2015 EANS- 15th Europe Academy of Neurological Surgery, annual Meeting, October 2015, Madrid Spain**

Title: A-743-0017-00246

Clinical outcomes of gamma knife radio-surgery and Timodar quimotherapy in the treatment of Glioblastoma multiforme. A prospective, observational, cohort study

Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, MSc, PhD; Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf, MD

- 3 **2015 EANS- 15th Europe Academy of Neurological Surgery, annual Meeting, October 2015, Madrid Spain**

Title: Peritoneal shunt placement for the treatment of subdural hematoma. Assessment of Surgical technique in a prospective observational study.

Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, MSc, PhD; Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf, MD

- 4 **2015 - 15th Interim Meeting of the WFNS that will be held in Rome from 8th to 12th September 2015**

Title: Percutaneous retrogasserian balloon compression for the treatment of trigeminal neuralgia in Multiple Sclerosis

Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, MSc, PhD; Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf, MD

- 5 **2015 - 15th Interim Meeting of the WFNS that will be held in Rome from 8th to**

12th September 2015.

Title: Gamma knife radiosurgery and chemotherapy in the primary treatment of Glioblastoma Multiforme. A prospective, observational study.

Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, MSc, PhD; Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf, MD

6 2015 - 15th Interim Meeting of the WFNS that will be held in Rome from 8th to 12th September 2015.

Title: Outcomes and Experience with subdural peritoneal Shunts in the Management of subdural hematoma.

Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, MSc, PhD; Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf, MD

National

7 2015 AMA, American Medical Association (13th annual AMA Research Symposium) Subdural Peritoneal Shunts in the Management of Chronic Subdural Hematoma

Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, MSc, PhD; Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf, MD

8 2015 ASRA, Annual Pain Medicine Meeting. November 19-21, 2015

Efficacy of percutaneous balloon compression for the treatment of Primary Trigeminal

Authors: Andres Alvarez-Pinzon, Luciana Curia, Aizik Wolf, Victor Delgado, Juan Cucalon, Jose Valerio

9 2015 ASRA, Annual Pain Medicine Meeting. November 19-21, 2015

Efficacy of second dosage of Gamma Knife Vs percutaneous balloon compression for the treatment of trigeminal Neuralgia

Authors: Andres Alvarez-Pinzon, Luciana Curia, Aizik Wolf, Victor Delgado, Juan Cucalon, Jose Valerio

10 2015 ASRA, Annual Pain Medicine Meeting. November 19-21, 2015

Percutaneous balloon compression for the treatment of trigeminal Neuralgia in Multiple Sclerosis

Authors: Andres Alvarez-Pinzon, Luciana Curia, Aizik Wolf, Victor Delgado, Juan Cucalon, Jose Valerio

11 2015 Congress of Neurological Surgeons Annual Meeting, September 26-30, in New Orleans, Louisiana.

Title: Peritoneal shunt placement for the treatment of subdural hematoma.

Assessment of Surgical technique in a prospective observational study.

Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, MSc, PhD; Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf, MD

12 2015 Congress of Neurological Surgeons Annual Meeting, September 26-30, in New Orleans, Louisiana.

Title: Clinical Outcomes of Gamma Knife Radiosurgery in treatment High-grade Glioma
Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, MSc, PhD(c); Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf, MD

13 2015 Congress of Neurological Surgeons Annual Meeting, September 26-30, in New Orleans, Louisiana.

Title: Viability of Second Gamma Knife Radiosurgery vs Percutaneous Retrogasserian Balloon Compression for Primary Trigeminal Neuralgia
Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, MSc, PhD; Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf, MD

14. 2015 AANS 2015 – American Academy of Neurological Surgery

Title: Percutaneous retrogasserian balloon compression in atypical trigeminal neuralgia in MS
Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, MSc, PhD; Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf, MD

15 2015 AANS/CNS Section on Tumors 11th Annual Biennial Satellite Symposium American Association of Neurological Surgery" - Section on Tumors

Title: Efficacy of a gamma knife radiosurgery in the treatment of primary central nervous system lymphoma in AIDS patients
Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, MSc, PhD; Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf, MD

16 **2015 CNS Congress of Neurological Surgeons Annual Meeting**, Washington

Title: Clinical Outcomes of Gamma Knife Radiosurgery in the Primary Treatment of Patients with High-grade Glioma. Andres M. Alvarez-Pinzon, MD, MSc; Aizik Wolf, MD, AANS, FAANS; Marcos Sanchez - Gonzalez, MD, PhD; Jose E. Valerio, MD, FAANS.

17 **2015 CNS Congress of Neurological Surgeons Annual Meeting**, Washington

Title: Retrospective, Single Center Study Evaluating the Efficacy of GK in Primary CNS Lymphoma in HIV Patients. Andres M. Alvarez-Pinzon, MD, MSc; Aizik Wolf, MD, AANS, FAANS; Marcos Sanchez - Gonzalez, MD, PhD; Jose E. Valerio, MD, FAANS.

Regional

- 21 **2015** American College of Surgeons, South Florida Chapter of the American College of Surgeons 26th Annual Surgical Research Forum.
Title: Percutaneous Retrogasserian Balloon Compression for the Treatment of Atypical Facial Pain in Multiple Sclerosis.
Andres M. Alvarez-Pinzon, MD; Aizik Wolf, MD; Marcos Sanchez - Gonzalez, MD, PhD; Jose E. Valerio, MD, FAANS.
- 22 **2015** Southern Chapter of Neurological Surgeons Annual meeting, SNS 2015 Annualmeeting
Title: Percutaneous Retrogasserian Balloon Compression for the Treatment of Atypical Facial Pain in Multiple Sclerosis Patients Percutaneous Retrogasserian Balloon Compression for the Treatment of Drug Resistant Trigeminal Neuralgia in Multiple Sclerosis. Andres M. Alvarez-Pinzon, MD, MSc; Aizik Wolf, MD, AANS, FAANS; Marcos Sanchez - Gonzalez, MD, PhD; Jose E. Valerio, MD, FAANS.
- 23 **2015** Southern Chapter of Neurological Surgeons Annual meeting, SNS 2015 Annual meeting **Title:** Retrospective, Single-center Study Evaluating the Efficacy of a Gamma Knife Radiosurgery in Primary Central Nervous System Lymphoma in Immunosuppressive Patients
Andres M. Alvarez-Pinzon, MD, MSc; Aizik Wolf, MD; Jose E. Valerio, MD, FAANS.
- 24 **2015** Southern Chapter of Neurological Surgeons Annual meeting, SNS 2015 Annual meeting **Title:** Viability of Second Gamma Knife Radiosurgery vs Percutaneous Retrogasserian Balloon Compression for Secondary Trigeminal Neuralgia, Andres M. Alvarez-Pinzon, MD, MSc; Aizik Wolf, MD, AANS, FAANS; Marcos Sanchez - Gonzalez, MD, PhD; Jose E. Valerio, MD, FAANS.

Publications

Articles in press

1. Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, PhD Sam Coy, PhD; Marcos Sanchez Gonzalez, MD, PhD; Aizik L. Wolf MD.
Pharmacological Management of Trigeminal Neuralgia in Multiple Sclerosis.

- Journal of Neurology & Neuroscience, In press
2. Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, PhD; Sam Coy, PhD; Aizik L. Wolf, MD.
Review of the literature: Neuroethics evolution in the XXI Century. Journal of Neurology & Stroke, Reference Number: JNSK-15-RW-205.in press
 3. E. Valerio MD; Andres M Alvarez-Pinzon, MD, PhD; Jose Sam Coy, PhD; Aizik L. Wolf, MD. The Efficacy of Gamma Knife Radio Surgery in the Management of Glioblastoma Multiforme, Cases Study. Journal of Neuroscience & Clinical Research, In press, JNSCR-15-22
 4. Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, PhD; Allan Stain MDc, Sam Coy, PhD; Aizik L. Wolf, MD. Minimally Invasive Endoscopic Endonasal Transphenoid Approach for resection of Pituitary Macroadenoma. A case Report. MOJ Clinical & Medical Case Reports, In press, MOJCR- 15-CR-145
 5. Andres M Alvarez-Pinzon, MD, PhD; Jose E. Valerio MD; Allan Stain MDc, Aizik L. Wolf, MD. "Management of Chronic subdural hematoma using a peritoneal shunt." In press, Journal of Trauma & Treatment: Open Access, <http://medicaljournals.edmgr.com/>.
 6. Jose E. Valerio MD; Andres M Alvarez-Pinzon, MD, PhD; Sam Coy, PhD; Aizik L. Wolf, MD, Primary CNS Lymphoma: Analysis of treatment by gamma- knife radiosurgery and chemotherapy in a prospective, observational study, Journal Integrative Oncology, In Press
 7. Aizik L. Wolf, MD, Andres M Alvarez-Pinzon, MD, PhD; Jose E. Valerio MD; "Craniopharyngioma: Background, Pathophysiology and Current Surgical Concepts in Neurosurgery" The Book. Nova Publishers. Book in edition. December 2015

Articles in Review

- 8 Jose E. Valerio, MD; Andres M. Alvarez-Pinzon, MD, PhD; Sammie E Coy PhD; Alan E Stuart BS, Aizik Wolf, MD, "Chemotherapy Resistant Intestinal-Type Sinonasal Adenocarcinoma Treated with Gamma Knife Radiosurgery" Cureus Case Report.
- 9 Jose E. Valerio, MD; Andres M. Alvarez-Pinzon, MD, PhD; Sammie E Coy PhD; Alan E Stuart BS, Aizik Wolf, MD, Gamma knife Radiosurgery and Chemotherapy in newly diagnosed primary central nervous system lymphoma, her Adv Med Oncol, In Review.
- 10 Andres M. Alvarez-Pinzon, MD, PhD; Luciana Curia, MD; Juan Cucalon MD, Aizik Wolf, MD, Jose E Valerio MD. Comparison of percutaneous Retrograde balloon compression and Gamma knife Radiosurgery for the treatment of trigeminal neuralgia in Multiple Sclerosis. Regional Anesthesia & Pain Medicine,

Peer-review Publications

1. Valerio JE, Alvarez-Pinzon AM, Coy S, Sanchez Gonzalez M, Wolf AL.104 Viability of Second Gamma Knife Radiosurgery vs Percutaneous Retrogasserian Balloon Compression for Primary Trigeminal Neuralgia. Neurosurgery. 2015 Aug;62 Suppl 1:197-8. doi: 10.1227/01.neu.0000467066.63940.0e. PubMed PMID: 26181950.
2. Alvarez-Pinzon AM, Stein AA, Wolf AL, Sanchez-Gonzalez M, Tydir A, Valerio JE, (2015) Minimally Invasive Surgical Treatment of Intractable Trigeminal Neuralgia in Multiple Sclerosis. MOJ Clin Med Case Rep 2(3): 00023. DOI: [10.15406/mojcr.2015.02.00023](http://dx.doi.org/10.15406/mojcr.2015.02.00023)
- 3 Alvarez-Pinzon AM, Wolf AL, Coy S, Sanchez-Gonzalez M, Valerio JE. Efficacy of a gamma knife radiosurgery in the treatment of primary central nervous system lymphoma in AIDS patients. Journal Article D 2015 @ 0167-594X, J Journal of Neuro-Oncology, V 122, N 3, R 10.1007/s11060-015-1759-4, T Ep poster Abstracts for AANS/CNS Section on Tumors 11th Biennial Satellite Symposium, U <http://dx.doi.org/10.1007/s11060-015-1759-4>, I Springer US, 8 2015-05-01, P 621-623, G English
- 4 **Author(s):** Pundik, S (Pundik, Svetlana); **Valerio, J** (Valerio, Jose); Gamboa, J (Gamboa, Jorge); Herrup, K (Herrup, Karl); Lust, WD (Lust, W. David)**Title:** Reduced CDK5 activity prevents hypoxia-induced ischemic tolerance**Source:** ANNALS OF NEUROLOGY, 60: S87-S87 Suppl. 10 2006
ISSN: 0364-5134
Author(s): Gamboa, JL; **Valerio, JE**; Buczek, M; Zechel, J; Pundik, S; Selman, WR; Lust, WD**Title:** Preconditioning with intermittent hypoxia is mediated by AKT (Protein kinase B) activation in a model of ischemic tolerance**Source:** NEUROLOGY, 66 (5): A161-A161 Suppl. 2 MAR 14 2006**ISSN:** 0028-3878
- 5 **Author(s): Valerio, JE**; Emancipator, D; Victor, N; Puchowicz, M; Selman, WR; Ratcheson, RA **Title:** Alternative fuels in neuroprotection after stroke**Source:** NEUROSURGERY, 57 (2): 420-420 870 AUG 2005**ISSN:** 0148-396X
- 6 **Author(s):** Pundik, S; Lust, WD; York, RD; **Valerio, J**; Herrup, K**Title:** Hypoxic preconditioning reduces select cell cycle-related processes after reversible middle cerebral artery occlusion**Source:** STROKE, 36 (2): 510-510 FEB 2005
- 7 **Author(s): Valerio JE**, Marques JT, Raychaudhuri B, Vogelbaum MA**Title:** Glioma-specific sequence-independent toxicity of small interfering double-

- stranded RNA molecules **Source:** Cancer Research, submitted
- 8 **Author(s):** Puchowicz MA, Zechel JL, **Valerio J**, Emancipator DS, Xu K, Pundik S, LaManna JC, Lust WD **Title:** Neuroprotection in diet-induced ketotic rat brain after focal ischemia.**Source:** Nature PG: J Cereb Blood Flow Metab. 2008 Dec;28 (12):1907-16. Epub 2008 Jul 23
 - 9 **Author(s): Valerio JE**, Marques J, Williams B, et al**Title:** Glioma specific toxicity of gene-silencing double-stranded RNA molecules**Source:** JOURNAL OF NEURO-ONCOLOGY Volume: 87 Issue: 2, Pages: 244-244 Published: APR 2008
 - 10 **Author(s): Valerio JE**, Palomo J, Marques J, Michel Vogelbaum**Title:** Glioma specific toxicity of gene-silencing double-stranded RNA molecules in Vitro and In Vivo **Source:** NEURO-ONCOLOGY Volume: 10, Issue: 5 Pages: 847-847, Published: October 2008
 - 11 **Author(s): Valerio JE**, Suh J, Vogelbaum M, Barnett G**Title:** Local Control of Meningioma treated with Gamma Knife.**Source:** NEURO-ONCOLOGY, Volume: 10, Issue: 5, Pages: 886-886, Published: October 2008
 - 12 Hypoxic preconditioning reduces expression of the cyclin dependent kinase 5 in the post-ischemic neurons Svetlana Pundik, W David Lust, Jose Valerio, Michael Buczek, Randall D York, Karl Herrup**Journal:** Journal of Cerebral Blood Flow and Metabolism - J CEREBR BLOOD FLOW METABOL , vol. 25, pp. S309-S309, 2005
 - 13 Reduced infarct volumes following focal ischemia in diet induced ketotic rat brainMichelle Puchowicz, Douglas Emancipator, Jorge Gamboa, Jose Valerio, Kui Xu, W D Lust, Joseph C LaManna **Journal:** Journal of Cerebral Blood Flow and Metabolism - J CEREBR BLOOD FLOW METABOL , vol. 25, pp. S307-S307, 2005
 - 14 [Neuroprotection in diet-induced ketotic rat brain after focal ischemia.](#)
Puchowicz MA, Zechel JL, Valerio J, Emancipator DS, Xu K, Pundik S, LaManna JC, Lust WD. *J Cereb Blood Flow Metab.* 2008 Dec;28(12):1907-16. doi: 10.1038/jcbfm.2008.79. Epub 2008 Jul 23.
 - 15 Laser interstitial thermal therapy for focal cerebral radiation necrosis: a case report and literature review. Rahmathulla G, Recinos PF, Valerio JE, Chao S, Barnett GH. *Stereotact Funct Neurosurg.* 2012;90(3):192-200.
 - 16 *J Neurosurg.* 2013 Jun;118(6):1202-19. doi: 10.3171/2013.1.JNS1291. Epub 2013 Apr 5. Results of the NeuroBlate System first-in-humans Phase I clinical trial for recurrent glioblastoma: clinical article. Sloan AE, Ahluwalia MS, Valerio-Pascua J, Manjila S, Torchia MG, Jones SE, Sunshine JL, Phillips M, Griswold MA, Clampitt M, Brewer C, Jochum J, McGraw MV, Diorio D, Ditz G, Barnett GH.

Books

1. Aizik L. Wolf, MD, Andres M Alvarez-Pinzon, MD, PhD; Jose E. Valerio MD; Craniopharyngioma: Background, Pathophysiology and Current Surgical Concepts in Neurosurgery. Nova Publishers. December 2015. In Edition

Clinical Research Training

- . **1992 UNIVERSIDAD AUTONOMA DE GUADALAJARA**
Surgical Management of Epilepsy
- . **2000-2001 UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO**
Quality of life in the patient with a Meningioma post surgery
- . **2002-2005 CASE WESTERN RESERVE UNIVERSITY**
Hypoxic precondition in stroke produces Neuroprotection in Rats
Second energy failure reproduces in a vitro system
Neuroprotection with BMP and Activin in stroke injected in the ventricles in Rats
Intermittent Hypoxia 2hrs Neuroprotection in Rats
- . **2006 CLEVELAND CLINIC FOUNDATION** Training in Gamma Knife Radiosurgery
New advances in Convection Enhanced Delivery System for Central Nervous System
Translational Research training in brain tumors
New advances in Pituitary Disorders
2nd Annual Epilepsy course for residents and fellows
3rd Glioblastoma Brain Tumor Summit
Cleveland Clinic Spine Review Course
EPICARE Course Completed all COMET courses
- . **2007** Total body Radiosurgery Therapy Updates in Neurosurgery
Oncology New advances in Pituitary Disorders
Convection Enhanced Delivery System Treatment for Gliomas
- . **2008** Coordinator of the first International Congress of Neuro-Oncology
Mexico-USA Liaison of the Tumor Section from the AANS/CNS for Mexico and Central America
- . **2009** AutoLITT: A prospective First-in-Man safety trial of the AutoLITT laser treatment of recurrent /progressive brain tumors. This was a phase I study of laser ablation treatment for recurrent Glioblastoma patients who failed the standard of care for surgery and chemotherapy. This study was conducted at the Cleveland Clinic and University Hospitals from 2008-2009.
- . **2010** Targeting Metabolism in Brain Tumors, (Principal Investigator). Received funding from the Musella Foundation in January 2010 to study the correlation between metabolism and brain tumors. The research is currently in progress at

the Cleveland Clinic International Symposium on Long-term Control of
Secondary Central Nervous System Malignancies