

CURRICULUM VITAE
Daniel Fain Kelly, M.D.
March 2022

Date of Birth: November 13, 1959

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Current Positions

Director & Founder, <i>Pacific Neuroscience Institute</i>	2015 – present
President & CEO, <i>Pacific Neuroscience Institute Foundation</i>	2015 – present
Chairman, <i>Pacific Neuroscience Institute Medical Group</i>	2015 – present
Director, <i>Pacific Brain Tumor Center & Pituitary Disorders Center</i>	2007 – present
Professor of Neuroscience & Neurosurgery, Saint John's Cancer Institute	2013 – present
Chief, Division of Neurosurgery, Saint John's Health Center	2010 – 2021
Member, Board of Directors, Providence Saint John's Health Center	2014 – 2021

Prior Professional Positions

Professor of Neurosurgery, UCLA School of Medicine	2005 - 2007
Associate Professor of Neurosurgery, UCLA School of Medicine	2000 - 2005
Assistant Professor of Neurosurgery, UCLA School of Medicine	1993 - 2000
Vice-Chief of Clinical Affairs, UCLA Division of Neurosurgery	2005 - 2007
Director, UCLA Pituitary Tumor and Neuroendocrine Program	1998 - 2007
Co-Director, Harbor-UCLA Pituitary Program	1993 - 2007
Co-Director, UCLA and Harbor-UCLA Clinical Brain Injury Program	1996 - 2007
Ruth and Raymond Stotter Chair in Neurosurgery -UCLA	1999 - 2004

Education & Training

Bachelor of Arts, Biology and Chemistry, Cum Laude, Claremont Men's College, Claremont, CA	1982
Doctor of Medicine, Georgetown University School of Medicine, Washington, DC	1986
Surgical Internship, St. Vincent's Hospital and Medical Center, New York, NY	1987
Neurosurgical Residency Training, George Washington University Medical Center, Washington, DC	1993

Certification

National Medical Board Exam, Parts I, II, III	1987
American Board of Neurological Surgery - Primary Exam – 1990, Oral Examination	1998
California Institute of Integral Studies: Certificate in Psychedelic- Assisted Therapies and Research	2021

Professional Memberships

1. American Medical Association
2. American Association of Neurological Surgeons
3. Congress of Neurological Surgeons
4. Foundation for International Education in Neurological Surgery
5. The Pituitary Society

6. The Endocrine Society
7. American Association of Clinical Endocrinologists, Pituitary Scientific Committee
8. North American Skull Base Society
9. International Society of Pituitary Surgeons
10. Society for Neuro-Oncology

Editorial Review Boards

1. *Neurosurgery*
2. *Operative Neurosurgery*
3. *World Neurosurgery*
4. Ad hoc reviewer: *Neuro-Oncology*

Research Grants

1. Key Investigator: Project 3 – “Post-Traumatic Cerebral Arterial Spasm”, in UCLA Brain Injury Research Center. Program Project Grant, National Institute Neurologic Disease and Stroke; Grant #NS30308. 1993 to 1997. Program Director: Donald P. Becker, M.D.
2. Co-Investigator: “A randomized, stratified, double-blind, multi-center study of the efficacy and safety of Sygen vs placebo following standard methylprednisolone therapy in the treatment of acute spinal cord injury” PI: Duncan McBride. 1993 to 1997. Fidia Pharmaceutical Company.
3. Co-investigator: “Dose escalation study of tirilazad mesylate in moderate and severe head injured patients” PI: Michael Caron. 1993 to 1994. The Upjohn Company.
4. Principal Investigator: “Dose escalation study of tirilazad mesylate in moderate and severe head injured patients” April 1994 to December 1994. The Upjohn Company.
5. Principal Investigator: “Efficacy/Safety of 15 mg/kg/day Tirilazad Mesylate in North American Women with Subarachnoid hemorrhage” July 1995 to October 1996. The Upjohn Company.
6. Principal Investigator: “The Safety and Efficacy of ZENECA ZD0859#1 2% versus High-Dose Morphine Sulfate (MSO₄) Injection for the Sedation of Subjects with Severe Head Injury. A prospective randomized multi-center study” July 1995 to August 1996.
7. Principal Investigator: “Efficacy of 6 versus 10 mg of tirilazad mesylate in male patients with aneurysmal subarachnoid hemorrhage” May 1996 to December 1996. The Upjohn Company.
8. Principal Investigator: “A Randomized Placebo-Controlled Study of CI-1009 in Severe Head Injury Patients” Parke-Davis Pharmaceuticals. August 1997 to September 1998.
9. Co-Principal Investigator: Project 1- “Incidence, Time Course, and Pathophysiology of Hyperglycolysis Following Human Traumatic Brain Injury” in UCLA Program Project Grant: *Neurometabolic Pathobiology of Traumatic Brain Injury*. Funding 7/98-6/03. Program Director: Donald Becker, M.D.
10. Co-Principal Investigator: “Hypopituitarism Following Moderate and Severe Traumatic Brain Injury” Genentech Foundation for Growth and Development, October 1998. Co-investigators: Ronald Swerdloff, M.D. Christina Wang, M.D., Irene T. Gaw Gonzalo, M.D.

11. Principal Investigator: “Hypopituitarism Following Traumatic Brain Injury and Aneurysmal Subarachnoid Hemorrhage” Stein-Oppenheimer Endowment Awards, February 1999; Co-investigators: Ronald Swerdloff, M.D. Christina Wang, M.D., Irene T. Gaw Gonzalo, M.D., Mohammad Saad M.D.
12. Principal Investigator: “Post-traumatic Impairment of Cerebral Vasoreactivity” Zeneca Pharmaceuticals, 1999.
13. Principal Investigator: “Hypopituitarism Following Traumatic Brain Injury and Aneurysmal Subarachnoid Hemorrhage” 2000 Pharmacia & Upjohn. Co-investigators: Pejman Cohan, M.D., Irene T. Gaw Gonzalo, M.D., Ronald Swerdloff, M.D. and Christina Wang, M.D.
14. Principal Investigator: “Hypopituitarism after Moderate and Severe Head Injury”, NINDS/NIH Grant # R01 NS 40777; Funding period: 2002 to 2008
15. Co-Mentor: “Acute Secondary Adrenal Insufficiency after Moderate and Severe Head Injury” NIH Grant # K23 RR 1729801; Principal Investigator: Pejman Cohan, M.D. Funding period: 2002 to 2006
16. Principal Investigator: “Hypopituitarism after Moderate and Severe Head Injury”, Pfizer; Funding period 2002 to 2005
17. Co-Investigator: “Rosiglitazone: novel therapy for pituitary tumors (Phase II)”, NIH/FDA R01, FD003096. Principal Investigator: Anthony Heaney MD, Ph.D.; Funding period: 2006 - 2009
18. Co-Principal Investigator: “Hypopituitarism in Retired Professional Football Players”, National Operating Committee on Standards for Athletic Equipment (NOCSAE); Funding period: July 2008 – June 2012
19. Principal Investigator: A pilot study of pre- & post-operative Somatuline Depot therapy in acromegalic patients treated by endonasal endoscopic surgery: impact on early remission rate and perioperative morbidity. Ipsen, Funding period November 2012- 2015.
20. Providence Saint Joseph Health Network: Precision Recommendations for Environmental Variables, Exercise, Training Intervention to Optimize Neurocognition (PREVENTION) Trial, \$4,255,357 (PI: Merrill, Role: Co-I) Funding period 2019-2022.
21. The Pacific Consciousness & Behavioral Health Program. Focused on developing clinical trials in psychedelic-assisted therapies for depression, anxiety, PTSD and addiction. Grant to PNI Foundation from Annenberg Foundation for \$700,000 over 3 years. Funding period 2019-2022. (Role – Co-I and CEO of PNIF)
22. Co-Investigator: Pilot Trial of Visual Healing® in Psilocybin-assisted Therapy for Alcohol Use Disorder. NCT04410913 PI: Keith Heinzerling; Co-Investigator Louie Schwartzberg

Publications

Papers in refereed journals:

1. **Kelly DF**, Hope DG: Fatal phenytoin-related toxic epidermal necrolysis: case report. *Neurosurgery* 25:976-978, 1989
2. **Kelly DF**, Bernstein JJ, Laws ER: Methylprednisolone: therapeutic time window in experimental spinal cord injury in rats. *Surgical Forum* Vol XLII:512-514, 1991
3. **Kelly DF**, Laws ER, Fossett D: Delayed hyponatremia after transsphenoidal surgery for pituitary adenoma. Report of nine cases. *J Neurosurgery* 83:363-367, 1995
4. Martin, NA, Doberstein C, Alexander M, Khanna R, Benalcazar H, Alsina G, Zane C, McBride D, **Kelly DF**, Hovda D, Becker D, McArthur D and Zaucha K: Posttraumatic cerebral arterial spasm. *J Neurotrauma* 12: 897-901, 1995
5. Hovda DA, Lee SM, Smith ML, von Stuck S, Bergsneider M, **Kelly D**, Shalmon E, Martin N, Caron M, Mazziotta J, Phelps M and Becker DP: The neurochemical and metabolic cascade following brain injury: moving from animal models to man. *J Neurotrauma* 12: 903-906, 1995
6. **Kelly DF**: Alcohol and head injury: an issue revisited. *J Neurotrauma* 12:883-890, 1995
7. **Kelly DF**: Steroids in head injury. *New Horizons* 3:453-455 1995
8. **Kelly DF**, Kordestani RK, Martin NA, Nguyen T, Hovda DA, Bergsneider M, McArthur DL, Becker DP: Hyperemia following traumatic brain injury: relationship to intracranial hypertension and outcome. *J Neurosurgery* 85:762-771, 1996
9. Bergsneider M, Hovda DA, Shalmon E, **Kelly DF**, Vespa PM, Martin NA, Phelps ME, McArthur DL, Kraus J, Becker DP: Cerebral hyperglycolysis following severe human traumatic brain injury: a positron emission tomography study. *J Neurosurgery* 86:241-251, 1997
10. **Kelly DF**, Martin NA, Kordestani RK, Counelis GJ, Hovda DA, Bergsneider M, Shalmon E, McBride DQ, Herman DR, Becker DP: Cerebral blood flow as a predictor of outcome following traumatic brain injury. *J Neurosurgery* 86:633-641, 1997
11. **Kelly DF**, Lee SM, Pinanong PA, Hovda DA: Paradoxical effects of acute ethanolism in experimental brain injury. *J Neurosurgery* 86:876-882, 1997
12. Frazee JG, **Kelly DF**: Treatment of unruptured aneurysms. *J Stroke Cerebrovasc Diseases* 6:227-229, 1997
13. **Kelly DF**: Timing of surgery for ruptured aneurysms and initial critical care. *J Stroke Cerebrovasc Diseases* 6:235-236, 1997
14. Satz P, Forney DL, Zaucha K, Asarnow RR, Light R, McCleary C, Levin H, **Kelly D**, Bergsneider M, Hovda D, Martin N, Namerow N, Becker D: Depression, cognition, and functional correlates of recovery outcome after traumatic brain injury. *Brain Injury* 12:537-553, 1998
15. Satz P, Zaucha K, Forney DL, McCleary C, Asarnow RR, Light R, Levin H, **Kelly D**, Bergsneider M, Hovda D, Martin N, Caron MJ, Namerow N, Becker D: Neuropsychological, psychosocial and vocational

- correlates of the Glasgow Outcome Scale at 6 months post-injury: a study of moderate to severe traumatic brain injury patients. *Brain Injury* 12:555-567, 1998
16. The International Study of Unruptured Intracranial Aneurysms Investigators: Unruptured intracranial aneurysms – risk of rupture and risks of surgical intervention. **Kelly D** (participating UCLA investigator sited in appendix) *New England J Med* 339:1725-1733, 1998
 17. **Kelly DF**, Goodale DB, Williams J, Herr D, Chappell ET, Rosner MJ, Jacobson J, Levy ML, Croce MA, Maniker AH, Fulda GJ, Lovett JV, Mohan O, Narayan RK: Propofol in the treatment of moderate and severe head injury: a randomized, prospective double blinded pilot trial. *J Neurosurgery* 90:1042-1052, 1999
 18. Vespa PM, Nuwer MR, Nenov V, Ronne-Engstrom E, Hovda DA, Bergsneider M, **Kelly DF**, Martin NA, Becker DP: Increased incidence and impact of nonconvulsive and convulsive seizures after traumatic brain injury as detected by continuous electroencephalographic monitoring. *J Neurosurgery* 91:750-760, 1999
 19. **Kelly DF**, Lee SM, Kozlowski DA, Haddad E, Echiverri A, Hovda DA: Ethanol reduces metabolic uncoupling following experimental head injury. *J Neurotrauma* 17:261-272, 2000
 20. Bergsneider M, Hovda DA, Lee SM, **Kelly DF**, McArthur DL, Vespa PM, Lee JH, Huang SC, Martin NA, Phelps ME, Becker DP: Dissociation of cerebral glucose metabolism and level of consciousness during the period of metabolic depression following human traumatic brain injury. *J Neurotrauma* 17:389-401, 2000
 21. **Kelly DF**, Gaw Gonzalo, IT, Cohan P, Berman N, Swedloff R, Wang C: Hypopituitarism following traumatic brain injury and aneurysmal subarachnoid hemorrhage: a preliminary report. *J Neurosurgery* 93:743-752, 2000
 22. **Kelly DF**, Becker DP: Advances in the management of neurosurgical trauma: U.S.A. and Canada. *World J Surgery* 25:1179-1185, 2001
 23. Lee JH, **Kelly DF**, Oertel M, McArthur DL, Glenn TC, Vespa P, Boscardin WJ, Martin NA: Carbon dioxide reactivity, pressure autoregulation and metabolic suppression reactivity after head injury: a transcranial Doppler study. *J Neurosurgery* 95:222-232, 2001
 24. **Kelly DF**, Oskouian RJ, Fineman I: Collagen sponge repair of small cerebrospinal fluid leaks obviates tissue grafts and cerebrospinal fluid diversion after pituitary surgery. *Neurosurgery* 49:885-890, 2001
 25. Oertel M, **Kelly DF**, McArthur D, Boscardin WJ, Glenn TC, Lee JH, Gravori T, Obukhov D, McBride DQ, Martin NA: Progressive hemorrhage after head injury: predictors and consequences of the injury in evolution. *J Neurosurgery* 96:109-116, 2002
 26. Holly LT, **Kelly DF**, Counelis GJ, Blinman T, McArthur DL, Cryer HG: Cervical spine trauma associated with moderate and severe head injury: incidence, risk factors and injury characteristics. *J Neurosurgery (Spine 3)* 96:285-291, 2002
 27. Vespa PM, Boscardin WJ, Hovda DA, McArthur DL, Nuwer MR, Martin NA, Nenov V, Glenn TC, Bergsneider M, **Kelly DF**, Becker DP. Early and persistent impaired percent alpha variability on continuous electroencephalography monitoring as predictive of poor outcome after traumatic brain injury. *J Neurosurgery* 97:84-92, 2002

28. Oertel M, **Kelly DF**, Lee JH, Glenn TC, Vespa PM, Martin NA: Can hyperventilation improve cerebral microcirculation in patients with high ICP? *Acta Neurochir Suppl* 81:71-72, 2002
29. Oertel M, **Kelly DF**, Lee JH, Glenn TC, Vespa PM, Martin NA: Is CPP therapy beneficial for all patients with high ICP? *Acta Neurochir Suppl* 81:67-68, 2002
30. Oertel M, **Kelly DF**, Lee JH, Glenn TC, Vespa PM, Martin NA: Metabolic suppressive therapy as a treatment for intracranial hypertension--why it works and when it fails. *Acta Neurochir Suppl* 81:69-70, 2002
31. Oertel M, **Kelly DF**, Lee JH, McArthur DL, Glenn TC, Vespa P, Boscardin WJ, Martin NA: Efficacy of hyperventilation, blood pressure elevation and metabolic suppressive therapy in controlling ICP after head injury. *J Neurosurgery* 97:1045-1053, 2002
32. Zada G, **Kelly DF**, Cohan P, Wang C, Swerdloff R: Endonasal transsphenoidal approach to treat pituitary adenomas and other sellar lesions: an assessment of efficacy, safety and patient impressions. *J Neurosurgery* 98:350-358, 2003
33. Selch MT, De Salles AAF, **Kelly DF**, Frighetto L, Vinters H, Cabatan-Awang, C, Solberg TD: Stereotactic radiotherapy for the treatment of lymphocytic hypophysitis: Report of two cases. *J Neurosurgery* 99:591-596 2003
34. Vespa PM, McArthur D, O'Phelan K, Glenn T, Etchepare M, **Kelly D**, Bergsneider M, Martin NA, Hovda DA: Persistently low extracellular glucose correlates with poor outcome 6 months after human traumatic brain injury despite a lack of increased lactate: a microdialysis study. *J Cereb Blood Flow Metab.* 23:865-877, 2003
35. Glenn TC, **Kelly DF**, Boscardin WJ, McArthur DL, Vespa PM, Oertel MF, Hovda DA, Bergsneider M, Hillered L, Martin N: Energy dysfunction as a predictor of outcome after moderate or severe head injury: indices of oxygen, glucose and lactate metabolism. *J Cereb Blood Flow Metab* 23:1239-1250, 2003
36. Dhillon KS, Cohan P, **Kelly DF**, Darwin CH, Iyer KV, Chopra IJ: Treatment of hyperthyroidism associated with thyrotropin-secreting pituitary adenomas with iopanoic acid. *J Clin Endocrinol Metab.* 89:708-711, 2004.
37. Monzavi R, **Kelly DF**, Geffner ME: Rathke's cleft cyst in two girls with precocious puberty. *J Pediatric Endocrinol Metabol* 17:781-785, 2004
38. Cook SW, Smith Z, **Kelly DF**: Endonasal transsphenoidal removal of tuberculum sellae meningiomas: a technical note. *Neurosurgery* 55:239-246, 2004
39. Cohan P, Foulad A, Esposito F, Martin NA, **Kelly DF**: Symptomatic Rathke's Cleft Cysts: A Report of 24 Cases. *J Endocrinology Investigations* 27:943-948, 2004
40. Qu XD, Gaw Gonzalo IT, Al Sayed MY, Cohan P, Christenson PD, Swerdloff RS, **Kelly DF**, Wang C: Influence of body mass index and gender on growth hormone (GH) responses to GH-releasing hormone plus arginine and insulin tolerance tests. *J Clin Endocrinology Metabolism* 90:1563-1569, 2005
41. Esposito F, Becker DP, Villablanca JP, **Kelly DF**: Endonasal transsphenoidal transclival skull-base removal of prepontine epidermoid tumors: a technical note. *Neurosurgery* 56 (2 Suppl):E443, 2005

42. Dusick JR, Esposito F, **Kelly DF**, Cohan P, DeSalles A, Becker DP, Martin NA: The Extended Direct Endonasal Transsphenoidal Approach for Non-Adenomatous Suprasellar Tumors. *J Neurosurg* 102, 832-841, 2005
43. Cohan P, Wang C, McArthur DL, Cook SW, Dusick JR, Armin B, Swerdloff R, Vespa P, Muizelaar JP, Cryer HG, Christenson, PD, **Kelly DF**: Acute secondary adrenal insufficiency after traumatic brain injury: a prospective study. *Critical Care Med* 33:2358-2366, 2005
44. Esposito F, **Kelly DF**, Vinters HV, De Salles AAF, Sercarz J, Gorgulhos AA: Primary sphenoid sinus neoplasms: a report of four cases with common clinical presentation treated with transsphenoidal surgery and adjuvant therapies. *J Neurooncology* 76:299-306, 2006
45. Esposito F, Dusick JR, Cohan P, Moftakhar P, McArthur D, Wang C, Swerdloff RS, **Kelly DF**: Clinical review: Early morning cortisol levels as a predictor of remission after transsphenoidal surgery for Cushing's disease. *J Clin Endocrinology Metabolism* 91:7-13, 2006.
46. Dusick JR, Esposito F, Mattozo CA, Chaloner C, McArthur DL, **Kelly DF**: Endonasal transsphenoidal surgery: the patient's perspective-survey results from 259 patients. *Surg Neurol* 65:332-341, discussion 341-2, 2006
47. Mattozo CA, Dusick JR, Esposito F, Mora H, Cohan P, Malkasian D, **Kelly DF**: Suboptimal sphenoid and sellar exposure: a consistent finding in patients treated with repeat transsphenoidal surgery for residual endocrine-inactive macroadenomas. *Neurosurgery* 58:857-865, discussion 857-865, 2006
48. **Kelly DF**, McArthur DL, Levin H, Swimmer S, Dusick JR, Cohan P, Wang C, Swerdloff R: Neurobehavioral and Quality of Life Changes Associated with Growth Hormone Insufficiency after Complicated Mild, Moderate or Severe Traumatic Brain Injury. *J Neurotrauma* 23:928-942, 2006
49. Dusick JR, Mattozo CA, Esposito F, Serani M, **Kelly DF**: BioGlue® for Prevention of Post-operative Cerebrospinal Fluid Leaks in Transsphenoidal Surgery: a Case Series. *Surg Neurol* 66:371-376, 2006
50. Dusick JR, Glenn TC, Lee WN, Vespa PM, **Kelly DF**, Lee SM, Hovda DA, Martin NA. Increased pentose phosphate pathway flux after clinical traumatic brain injury:a [1,2-(13)C(2)] glucose labeling study in humans. *J Cereb Blood Flow Metab.* Feb 2007; (Epub ahead of print)
51. Esposito F, Dusick JR, Fatemi N, **Kelly DF**: Graded repair of cranial base defects and CSF leaks in transsphenoidal surgery. *Neurosurgery (Operative Neurosurgery Supplement 2)*; 60:295-304, 2007
52. Dusick JR, Esposito F, Malkasian D, **Kelly DF**: Avoidance of carotid artery injuries in transsphenoidal surgery with the Doppler probe and micro-hook blades. *Neurosurgery (Operative Neurosurgery Supplement 2)*; 60:322-329, 2007
53. Mattozo CA, De Salles AAF, Klement IA, Gorgulho A, McArthur D, Ford J, Agazaryan N, **Kelly DF**, Selch MT: Stereotactic radiation for recurrent nonbenign meningiomas. *J Neurosurg* 106:846-854, 2007
54. **Kelly DF**: Transsphenoidal surgery for Cushing's disease: A review of: surgical success rates, predicting remission, managing failed surgery patients and Nelson's Syndrome. *Neurosurgical Focus* 2007;23(3):E5.

55. Ali O, Banerjee S, **Kelly DF**, Lee PD: Management of type 2 diabetes mellitus associated with pituitary gigantism. *Pituitary* 10:359-364, 2007
56. Cavallo LM, Prevedello D, Esposito F, Laws ER Jr, Dusick JR, Messina A, Jane JA Jr, **Kelly DF**, Cappabianca P The role of the endoscope in the transsphenoidal management of cystic lesions of the sellar region. *Neurosurg Rev.* 31:55-64; discussion 64, 2008
57. Fatemi N, Dusick JR, Gorgulho AA, Mattozo CA, Moftakhar P, De Salles AA, **Kelly DF**: Endonasal microscopic removal of clival chordomas. *Surgical Neurol.* 69:331-338, 2008
58. Dusick JR, Wang C, Cohan P, Swerdloff R, **Kelly DF**: Chapter 1: Pathophysiology of hypopituitarism in the setting of brain injury. *Pituitary* 2008 May 15 (Epub ahead of print)
59. Dusick JR, Fatemi N, Mattozo CA, McArthur DL Cohan P, Wang C, Swerdloff R, **Kelly DF**: Pituitary function after endonasal surgery for non-adenomatous parasellar tumors: Rathke's cleft cysts, craniopharyngiomas and meningiomas. *Surgical Neurology* 70:482-490, 2008
60. Bavisetty S, Bavisetty S, McArthur DL, Dusick JD, Wang C, Cohan P, Boscardin WJ, Swerdloff R, H Levin, Chang DJ, Muizelaar JP, **Kelly DF**: Chronic Hypopituitarism after Traumatic Brain Injury: Risk Assessment and Relationship to Outcome. *Neurosurgery* 62:1080-1093, 2008
61. Fatemi N, Dusick JR, Malkasian D, Emerson J, McArthur DL, Schad W, **Kelly DF**: Instrumentation Assessment: Short Trapezoidal Speculums for Suprasellar and Infrassellar Exposure in Endonasal Transsphenoidal Surgery. *Neurosurgery (Operative Neurosurgery, ONS Suppl 2)*; 62:325-330, 2008
62. Fatemi N, Dusick JR, de Paiva N, **Kelly DF**: The endonasal microscopic approach for pituitary adenomas and other parasellar tumors: a 10-year experience. *Neurosurgery*, 63 [ONS Suppl 2]; ONS 63:244-256, 2008
63. Fatemi N, Dusick JR, Mattozo CA, McArthur DL, Cohan P, Boscardin WJ, Wang C, Swerdloff RS, **Kelly DF**: Pituitary hormonal loss and recovery after transsphenoidal adenoma removal. *Neurosurgery* 63:709-718, 2008
64. Fatemi N, Dusick JR, de Paiva N, Malkasian D, **Kelly DF**: Endonasal versus supra-orbital keyhole removal of craniopharyngiomas and tuberculum sellae meningiomas. *Neurosurgery*, 64 [ONS Suppl 2]:ONS 64:269–287, 2009
65. de Paiva Neto MA, Vandergrift A, Fatemi N, Gorgulho AA, Desalles AA, Cohan P, Wang C, Swerdloff R, **Kelly DF**: Endonasal transsphenoidal surgery and multimodality treatment for giant pituitary adenomas Clin Endocrinol (Oxf). Apr;72(4):512-9, 2010
66. Shahlaie K, McLaughlin N, Kassam AB, **Kelly DF**: The role of outcomes data for assessing the expertise of a pituitary surgeon. *Curr Opin Endocrinol Diabetes Obes.* Aug;17(4):369-76, 2010
67. Lund VJ, Stammberger H, Nicolai P, Castelnovo P, Beale T, Beham A, Bernal-Sprekelsen M, Braun H, Cappabianca P, Carrau R, Clarici G, Draf W, Esposito F, Fernandez-Miranda J, Fokkens WJ, Gardner P, Gellner V, Hellquist H, Hermann P, Hosemann W, Howard D, Jones N, Jorissen M, Kassam A, **Kelly D**, Kurschel-Lackner S, Leong S, McLaughlin N, Maroldi R, Minovi A, Mokry M, Onerci M, Ong YK, Prevedello D, Saleh H, Sehti DS, Simmen D, Snyderman C, Solares A, Spittle M, Stamm A, Tomazic P, Trimarchi M, Unger F, Wormald PJ, Zanation A. European position paper on endoscopic management of tumours of the nose, paranasal sinuses and skull base. *Rhinology* 1;48(2):1001-1144, 2010.

68. Wagner J, Dusick JR, McArthur DL, Cohan P, Wang C, Swerdloff R, Boscardin WJ, **Kelly DF**. Acute gonadotroph and somatotroph hormonal suppression after traumatic brain injury. *J Neurotrauma* 27(6):1007-19, 2010
69. McLaughlin N, Kassam AB, Prevedello DM, **Kelly DF**: Surgical management of Cushing's disease after failed surgery - A review. *Can J Neurol Sciences* 38(1):12-21, 2011
70. McLaughlin N, Ditzel Filho LFS, Shahlaie K, Solari D, Kassam AB, **Kelly DF**: The supraorbital approach for recurrent or residual suprasellar tumors. *Minim Invasive Neurosurg.* 2011 Aug; 54(4):155-61.
71. McLaughlin N, Prevedello DM, Engh J, **Kelly DF**, Kassam AB. Endoneurosurgical resection of intraventricular and intraparenchymal lesions using the port technique. *World Neurosurg.* 2012 Feb 10. PMID: 22381841
72. McLaughlin N, Vandergrift A, Ditzel Filho LFS Shahlaie K, Eisenberg A, Carrau RL, **Kelly DF**. Endonasal management of sellar arachnoid cysts: simple cyst obliteration technique. *J Neurosurgery* 116:728-740, 2012
73. McLaughlin N, Bresson D, Ditzel Filho LF, Carrau RL, **Kelly DF**, Prevedello DM, Kassam AB. Vidian nerve neurofibroma removed via a transpterygoid approach. *Minim Invasive Neurosurg.* 2011 Oct;54(5-6):250-2. 2012 Jan 25.
74. McLaughlin N, Cohan P, Barnett P, Eisenberg A, Chaloner C, **Kelly DF**: Early Morning Cortisol Levels as Predictors of Short-Term and Long-Term Adrenal Function After Endonasal Transsphenoidal Surgery for Pituitary Adenomas and Rathke's Cleft Cysts. *World Neurosurg.* 2013 Nov;80(5):569-75. PMID: 22902358.
75. McLaughlin N, Carrau, RL, Kassam AB, **Kelly DF**: Neuronavigation in endonasal pituitary and skull base surgery using an autoregistration mask without head fixation: an assessment of accuracy and practicality. *J Neurol Surg A Cent Eur Neurosurg.* 2012 Nov;73(6):351-7. PMID: 23034884
76. McLaughlin N, Laws ER, Oyesiku NM, Katznelson L, **Kelly DF**: Pituitary Centers of Excellence. *Neurosurgery.* Nov;71(5):916-26, 2012
77. McLaughlin N, Ditzel Filho LF, Prevedello DM, **Kelly DF**, Carrau RL, Kassam AB. Side-cutting aspiration device for endoscopic and microscopic tumor removal. *J Neurol Surg B Skull Base.* 2012 Feb;73(1):11-20. PMID: 23372990.
78. McLaughlin N, Eisenberg A, Cohan P, Chaloner C, **Kelly DF**: The value of endoscopy for maximizing tumor removal in endonasal transsphenoidal pituitary adenoma surgery: *J Neurosurgery* 2013 Mar;118(3):613-20
79. McLaughlin N, **Kelly DF**: Corticospinal tractography as a prognosticator for motor improvement after brainstem cavernoma resection. *Br J Neurosurg.* 2013 Feb;27(1):108-10. PMID: 22931358.
80. McLaughlin N, Carrau RL, Kelly DF, Prevedello DM, Kassam AB. Teamwork in skullbase surgery: An avenue for improvement in patient care. *Surg Neurol Int.* 2013 Mar 25;4:36. PMID: 23607058;

81. Ditzel Filho LF, McLaughlin N, Bresson D, Solari D, Kassam AB, **Kelly DF**. Supraorbital Eyebrow Craniotomy for Removal of Intraaxial Frontal Brain Tumors: A Technical Note. *World Neurosurg*. 2013 Jan 23. PMID: 23352966.
82. Wilson DA, Duong H, Teo C, **Kelly DF**. The Supraorbital Endoscopic Approach for Tumors. *World Neurosurg*. 2013 Feb 5. PMID: 23395805.
83. Little AS, **Kelly D**, Milligan J, Griffiths C, Rosseau G, Prevedello DM, Carrau R, Jahnke H, Chaloner C, O'Leary J, Chapple K, Nakaji P, White WL. Prospective validation of a patient-reported nasal quality-of-life tool for endonasal skull base surgery: The Anterior Skull Base Nasal Inventory-12. *J Neurosurg*. 2013 May 10. PMID: 23662829.
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21. Leo F. S. Ditzel Filho, Nancy McLaughlin, Domenico Solari, Daniel M. Prevedello, Amin B. Kassam, Ricardo L. Carrau and **Daniel F. Kelly**: PITUITARY ADENOMAS: TREATMENT USING THE ENDONASAL APPROACH, In MA Hayat (editor)Tumors of the Central Nervous System, In press 2012; Springer
22. Barkhoudarian G, Cutler A, **Kelly DF**, TRANSSPHEOIDAL SURGERY FOR NON-ADENOMATOUS TUMORS: EFFECT ON PITUITARY FUNCTION. In MA Hayat (editor)Tumors of the Central Nervous System, In press 2012; Springer
23. **Kelly DF**, Griffiths C: Endonasal Endoscopic Approach to the Sella for Pituitary Adenomas & Rathke's Cleft Cysts. In MASTER TECHNIQUES IN OTOLARYNGOLOGY: Skull Base Surgery. Editors: Snyderman CH & Gardner PA, In press 2013, Lippincott, Williams & Wilkins.
24. McLaughlin N, Prevedello D, **Kelly DF**, Carrau RL, Kassam AB: Endonasal endoscopic transsphenoidal approach to the sella. In NEUROSURGERY TRICKS of the TRADE: Thieme Medical Publishers, In press, 2012
25. **Kelly DF**, Griffiths CG: Endonasal Endoscopic Approach to the Sella for Pituitary Adenomas & Rathke's Cleft Cysts in MASTER TECHNIQUES IN OTOLARYNGOLOGY: Skull Base Surgery Editors: Carl H. Snyderman, MD & Paul A. Gardner, MD; In press 2013; Lippincott, Williams & Wilkins
26. Lewis RG, Barkhoudarian G, **Kelly DF**: Surgical Approaches: Complications of surgical management. In Craniopharyngiomas: A Comprehensive Guide to Diagnosis, Treatment and Outcome. Editors Tyler J. Kenning and James J. Evans; In press 2013 Elsevier / Academic Press.

27. Robert G. Louis, MD, Garni Barkhoudarian, MD, **Daniel F. Kelly, MD**, "Surgical Approaches: Complications of Surgical Management" Evans and Kenning – Craniopharyngioma 2014, Elsevier Academic Press, Oxford, UK
28. Griffiths Chester, F., and F. **Kelly, Daniel**. "Endonasal Endoscopic Surgery for Pituitary Adenoma." *VideoEndocrinology* (2015).
29. Tanji, Masahiro, Ibronke Ogunbameru, Garni Barkhoudarian, and **Daniel F. Kelly**. "Supraorbital Approach." In *Midline Skull Base Surgery*, pp. 137-153. Springer International Publishing, 2016.
30. Griffiths Chester, F., and F. **Kelly, Daniel**. "Extended Endonasal Transsellar Transplanum Endoscopic Removal of Craniopharyngioma." *VideoEndocrinology* (2017).
31. Garni Barkhoudarian, **Daniel Kelly**, "Complications with Transsphenoidal Surgery: A Review." *Transsphenoidal Surgery: Techniques Including Complication Avoidance and Management*. (2017)
32. Garni Barkhoudarian and **Daniel Kelly**, "Pituitary Adenoma and Other Considerations." *The Art of Neuroendocrinology: A case-based approach to medical decision-making* (2017)
33. Garni Barkhoudarian, **Daniel Kelly**, "The Pituitary Gland: Anatomy, Physiology, and its Function as the Master Gland." *Cushing's Disease: An Often Misdiagnosed and Not So Rare Disorder* (2017)
34. **Kelly, D. F.**, W. Sivakumar, and G. Barkhoudarian. "Multidisciplinary Management of Cushing's Disease: Centers of Excellence Approach." In *Cushing's Disease*, pp. 125-133. 2017.
35. Barkhoudarian, Garni, and **Daniel F. Kelly**. "Complications with Transsphenoidal Surgery: A Review." In *Transsphenoidal Surgery*, pp. 315-343. Springer, Cham, 2017.
36. Barkhoudarian, Garni, **Kelly, Daniel**, *Transsphenoidal Surgery: Complication Avoidance and Management Techniques*. Springer, 2017.
37. Barkhoudarian, Garni and **Kelly, Daniel**, "Endoscopic Supracerebellar Transtentorial Approach to Mesial Temporo-occipital Lesion." In *Stratagem in Skull Base Surgery: Decision Making to Optimize Approach* (2018)
38. Andrew Conger, Garni Barkhoudarian, **Daniel Kelly**. Pre-Operative, Intra-operative, and Post-operative Management Following Pituitary Surgery." In *Manual of Endocrinology and Metabolism* (2018)
39. Garni Barkhoudarian, **Daniel Kelly**. "'Eyebrow' Supraorbital Craniotomy Approach for Craniopharyngioma." *Endoscopic and Keyhole Cranial Surgery* (2018)
40. **Daniel Kelly**, Sheri Palejwala: Pituitary Macroadenoma: Pituitary Apoplexy, in *International Consensus Statement on Endoscopic Skull Base Surgery (ICSB)* (2018)
41. **Daniel Kelly**, Felipe Sfeir: Pituitary Macroadenoma: Reconstruction, in *International Consensus Statement on Endoscopic Skull Base Surgery (ICSB)* (2018)
42. **Daniel Kelly**, Sheri Palejwala: Pituitary Macroadenoma: Diabetes Insipidus and Syndrome of Inappropriate Antidiuretic Hormone, in *International Consensus Statement on Endoscopic Skull Base Surgery (ICSB)* (2018)
43. Ansari,SF, Barkhoudarian G, Krauss, H, **Kelly DF**: Chapter 35: "Transcranial Approaches to the Optic Apparatus" in *Endoscopic Surgery of the Orbit*, Elsevier, editor Sindwani 2019
44. Jai Deep Thakur, Alex Corlin, Garni Barkhoudarian, **Daniel F. Kelly**: Chapter 20 "Risks of transsphenoidal surgery" in *Pituitary Tumors: A Comprehensive and Interdisciplinary Approach*, Elsevier, 2021 editor J Honegger et al.
45. Avery MB, Barkhoudarian G, **Kelly DF**: Chapter 10: Pituitary Surgery in DeGroot's Endocrinology, 8th Edition (in press 2021)
46. Avery MB, Barkhoudarian G, **Kelly DF**. Endoscopic endonasal surgery for anterior skull base Meningiomas. *Mini-invasive Surg* 2021;5 <https://misjournal.net/article/view/3999>

Invited Lectures

1. Use of Swan Ganz Catheters in Neurosurgery. Neurosurgical Critical Care Course; Congress of Neurological Surgeons Annual Meeting, Vancouver, 1993

2. Advanced Trauma Life Support Core Curriculum Speaker. UCLA School of Medicine, 1994, 1995, 1996, 1997
3. Use of Swan Ganz Catheters in Neurosurgery. Neurosurgical Critical Care Course, American Association of Neurological Surgeons Annual Meeting, San Diego, 1994
4. Advances in Management of Brain and Spinal Cord Injury. San Joaquin Community Hospital, Bakersfield, CA, 1994
5. Current Management of Head Injury. Fifth International Course on Medical and Surgical Emergencies, Hospital General, Mexico City, 1994
6. Hemodynamic Monitoring and Support. Neurosurgical Critical Care Course, Congress of Neurological Surgeons Annual Meeting, Chicago, 1994
7. Current Management of Cerebral Trauma. Breakfast seminar, American Association of Neurological Surgeons Annual Meeting, Orlando, 1995
8. Intensive Care of Severe Head Injury. Annual Neurosurgical Symposium: Neurosurgical Emergencies, The Southern California Neurosurgical Society, San Marino, 1995
9. Initial Medical Therapy and Timing of Surgery for Ruptured Aneurysms. Brain Attack Symposium, Santa Monica, CA, 1995
10. Intracranial Physiology and Pathophysiology. Neurosurgical Critical Care Course, American Association of Neurological Surgeons Annual Meeting, 1995, 1996, 1997; Congress of Neurological Surgeons Annual Meeting, 1995 and 1996
11. Neurotrauma Critical Care - The Academic Perspective. Congress of Neurological Surgeons Annual Meeting, Montreal 1996
12. What to do if the brain is not the only injury. California Trauma Conference. Los Angeles, January 1997
13. Pituitary Cushing's. Brain Tumor Update '97. Los Angeles, January 1997
14. Surgical Management of Pituitary Adenomas. City of Hope Hospital, Duarte, CA, February 1997
15. Pituitary Adenomas: Surgical Indications and Longterm Outcome. 50th Anniversary Celebration of Neurocirugia del Hospital Nacional Guillermo Almenara Irigoyen, Lima, Peru, February 1997
16. Current Management of Severe Head Injury. 50th Anniversary Celebration of Neurocirugia del Hospital Nacional Guillermo Almenara Irigoyen, Lima, Peru, February 1997
17. Metabolic and Hemodynamic Aspects of Traumatic Brain Injury. 50th Anniversary Celebration of Neurocirugia del Hospital Nacional Guillermo Almenara Irigoyen, Lima, Peru, February 1997
18. Current Management of Severe Head Injury. Department of Surgery Grand Rounds, Loma Linda Medical Center, March 1997

19. Surgical Management of Pituitary Adenomas. Department of Medicine Grand Rounds, Harbor-UCLA Medical Center. July 1997
20. Pituitary Tumors: Current Diagnosis and Treatment. Department of Medicine Grand Rounds, Kern County Medical Center, Bakersfield, CA. March 1998
21. Management of Electrolyte Disturbances in Pediatric Neurosurgical Patients. Pediatric Critical Care Grand Rounds, Harbor-UCLA Medical Center. March 1998
22. Management of Traumatic Brain Injury. 2nd Annual Emergency Care: Diversity in Practice Conference. Riverside, CA. April 1998
23. Diagnosis and Care of Pituitary Tumors: Kaiser Foundation Hospital, Los Angeles, December 1998
24. Functional Pituitary Tumors: American Association of Neurological Surgeons Annual Meeting, New Orleans, April 1999
25. Controversies in the Management of Intracerebral Hematomas: American Association of Neurological Surgeons Annual Meeting, New Orleans, April 1999
26. Propofol: exploring options in the neurosurgical patient: Society of Neurosurgical Anesthesia and Critical Care Dinner Symposium, Dallas, October 1999
27. Contemporary Management of Head Injury: Congress of Neurological Surgeons 49th Annual Meeting, Boston, November 1999
28. Pituitary Tumors – Diagnosis and Management for Primary Care Physicians: Anaheim Memorial Medical Center CME Program, Anaheim, November 1999
29. Management of Intracerebral Hemorrhage: 38th Annual Symposium on Critical Care, Trauma and Emergency Medicine, Las Vegas February-March 2000
30. Sedation and Analgesia for the Head Injured Patient: 38th Annual Symposium on Critical Care, Trauma and Emergency Medicine, Las Vegas February-March 2000
31. Subarachnoid Hemorrhage: 38th Annual Symposium on Critical Care, Trauma and Emergency Medicine, Las Vegas February-March 2000
32. Controversies in the Management of Intracerebral Hematomas: American Association of Neurological Surgeons Annual Meeting, San Francisco, April 2000
33. Instructor: Annual Oral Boards Review Course, Sponsored by American Association of Neurological Surgeons, Los Angeles, May 2000
34. A Neurosurgeon's View of Pituitary Tumors: The Endocrine Nurses Society Symposium, Toronto, June 2000
35. Neurosurgery and Travel, Special Course – the Fine Art of Neurosurgery; Congress of Neurological Surgeons 50th Annual Meeting, San Antonio, September 2000

36. Contemporary Management of Head Injury; Congress of Neurological Surgeons 50th Annual Meeting, San Antonio, September 2000
37. Vasoreactivity After Head injury: a Transcranial Doppler Study. American Academy of Neurological Surgery. Colorado Springs, October 2000.
38. Pituitary Endocrine Disorders after Head Injury and Subarachnoid Hemorrhage. Ninth Annual Lars Leksell Lectures. University of Virginia, Charlottesville, June 2001
39. Collagen Sponge Repair of Small CSF Leaks after Endonasal Pituitary Surgery. Ninth Annual Lars Leksell Lectures. University of Virginia, Charlottesville, June 2001
40. Hypopituitarism after Head Injury. UCLA Department of Medicine Grand Rounds, July 2001.
41. Management of Penetrating CNS Injuries. Congress of Neurological Surgeons 51st Annual Meeting, San Diego, October 2001.
42. Does Aggressive Management of the Brain Injured Patient Improve Outcome? Annual California Trauma Conference, Santa Barbara, January 2002
43. Maladies of the Master Gland: Pituitary Tumors, Trauma and New Treatments. UCLA Department of Surgery Grand Rounds, January 2002
44. Acute and Chronic Pituitary Dysfunction Following Traumatic Brain Injury. Fifth Annual KIGS/KIMS National Meeting. San Diego, January 2002
45. An Update on Treatment of Pituitary Tumors. Division of Endocrinology King-Drew School of Medicine and Martin Luther King Hospital, July 2002
46. Maladies of the Master Gland: Pituitary Tumors, Trauma and New Treatments. Stanford University Department of Neurosurgery Grand Rounds, October 2002
47. What's New in Treatment of Pituitary Disease, UC Irvine Department of Neurosurgery Grand Rounds, October 2002
48. Advances in Transsphenoidal Surgery: The Direct Endonasal Microscopic Approach, The California Pituitary Conference, Santa Monica, November 2002
49. Conference/Course Organizer and Co-Director: The California Pituitary Conference: an Update on the Management of Pituitary Tumors and Pituitary Failure, Santa Monica, November 10th 2002
50. Endonasal Transsphenoidal Removal of Tuberculum Sellae Meningiomas: a Technical Note. The 56th Annual Meeting of the Neurosurgical Society of America, Sunriver, Oregon, June 2003
51. Conference Organizer: December in the Desert: Hormonal Health Symposium (in conjunction with the Pituitary Network Association), Rancho Mirage, CA, December 2003,
52. The Monitoring and Treatment of Intracranial Hypertension in the Brain Injured Patient. 15th Annual California Trauma Conference, Santa Barbara, January 2004

53. Traumatic Brain Injury: Bench, Bed and Beyond – Neurosurgical Treatment. Annual Meeting, Assoc. of California Neurologists and California Assoc. of Neurological Surgeons, Newport, CA, January 2004
54. Course Organizer and Director: Minimally Invasive Endonasal Pituitary Surgery: Hands-on Cadaver Microdissection Course. Los Angeles, CA, March 2004
55. Extended Skull Base Approaches. International Society of Pituitary Surgeons Meeting, Capri, Italy, April 2004
56. Course Instructor: Practical and Technical Aspects of Transsphenoidal Surgery, American Association of Neurological Surgeons Annual Meeting, Orlando, May 2004
57. Seminar Moderator: International Opportunities in Neurosurgery; American Association of Neurological Surgeons Annual Meeting, Orlando, May 2004
58. Pathophysiology of Pituitary Failure after Head Injury: Mediterranean Traumatic Brain Injury Study Group, Athens, Greece May 2004
59. Neurobehavioral Impact of Growth Hormone Deficiency after Moderate or Severe Traumatic Brain Injury, The 57th Annual Meeting of the Neurosurgical Society of America, Santa Fe, New Mexico, June 2004
60. Conference Organizer and Director: The 2nd California Pituitary Conference: an Update on the Management of Pituitary Tumors and Pituitary Failure, Beverly Hills, December 2004
61. Course Organizer and Director: Endonasal Pituitary Surgery Course with Hands-on Cadaver Microdissection Course. Los Angeles, CA, March 2005
62. Course Faculty Instructor: Practical and Technical Aspects of Transsphenoidal Surgery, American Association of Neurological Surgeons Annual Meeting, New Orleans, April 2005
63. Course Faculty: “Extended Microscopic Approaches for Parasellar Tumors”; Symposium on Keyhole Techniques in Neurosurgery, Endoscopy surgery course. Sydney, Australia, September 2005
64. Course Faculty: Practical and Technical Aspects of Transsphenoidal Surgery, American Association of Neurological Surgeons Annual Meeting, San Francisco, April 2006
65. Course Faculty: “O.R. Design for Skull Base Surgery – Image Guidance, Endoscopy and Intra-Operative MRI”; Course: Designing the OR and ICU of the Future, Los Angeles, April 2006
66. Workshop Faculty: “Extended Transsphenoidal Approaches for Parasellar Tumors”, Endoscopic pituitary surgery. 5th International Hands-on workshop; Naples, Italy; May 2006
67. “TBI and the Pituitary: A Pathophysiological Perspective” at INTS 2006, 8th International Neurotrauma Symposium; Rotterdam, The Netherlands, May 2006
68. “Neuroendocrine Effects of Neurotrauma” at INTS 2006, 8th International Neurotrauma Symposium; Rotterdam, The Netherlands, May 2006
69. Visiting Professor and Pracyk Lecture “Endonasal Surgery for Sellar and Parasellar Tumors”; George Washington University, Washington, DC, February 2007

70. Conference Organizer and Director: 3rd California Pituitary Conference: an Update on the Management of Pituitary Tumors and Pituitary Failure, Los Angeles, January 2007
71. Course Organizer and Director: Endonasal & Skull Base Keyhole Surgery Course with Cadaver Microdissection. Palm Beach, Florida, March 2007
72. “Extended Transsphenoidal and Key Hole Approaches for Brain Tumors”, Washington State Neurosurgical Society Annual Meeting, April 2007
73. “Are There Limits in Using the Microscope in Transsphenoidal Surgery?” 4th International Congress on Neuroendoscopy, Paris, May 2007
74. “Hypopituitarism After Head Injury: Epidemiology and Pathophysiology” ENDO 2007, CME symposium on “Endocrine Sequelae in Post-Traumatic Brain Injury”, Toronto, June 2007
75. “Extended Transsphenoidal Approaches: Instrumentation and Complication Avoidance”, Italian Neurosurgical Society Meeting, Rome, June 2007
76. “Endonasal Surgery for Pituitary Adenomas” City of Hope Hospital Division of Endocrinology, Grand Rounds, September 2007
77. Course Faculty: “Extended Microscopic Approaches for Parasellar Tumors”; Symposium on Keyhole Techniques in Neurosurgery, Endoscopy surgery course. Sydney, Australia, November 2007
78. “Pituitary Tumors and Other Aspects of Neuro-Endocrine Dysfunction” symposium sponsored by the Pituitary Network Association, Los Angeles, January 2008
79. “Endonasal Skull Base Surgery: Endoscope and/or Microscope?” for course: Minimally Invasive Endoscopic Surgery of the Cranial Base & Pituitary Fossa, UPMC, Pittsburgh January 2008
80. Course Organizer and Director: 2nd Endonasal & Skull Base Keyhole Surgery Course with Cadaver Microdissection. Palm Beach, Florida, February 2008
81. Course Faculty: Practical and Technical Aspects of Transsphenoidal Surgery, American Association of Neurological Surgeons Annual Meeting, Chicago, April 2008
82. “Complication Avoidance in Transsphenoidal Surgery” Breakfast Seminar on “Pituitary Tumors”, American Association of Neurological Surgeons Annual Meeting, Chicago, April 2008
83. Conference Organizer and Director: 4th California Pituitary Conference: an Update on the Management of Pituitary Tumors and Pituitary Failure, Santa Monica, May 2008
84. “Endonasal versus Supra-orbital Keyhole Removal of Meningiomas and Craniopharyngiomas” Neurosurgical Society of America, Whistler, BC, Canada, June 2008
85. “Endonasal Surgery: Optimizing Outcomes and Complication Avoidance”, 3rd International Conference on Select Topics in Neurosurgery, Mexican Society of Neurosurgery, Cabo San Lucas Mexico, November 2008

86. "Extended Endonasal Approach for Parasellar Tumors: Outcomes, Limitations and Alternatives" 3rd International Conference on Select Topics in Neurosurgery, Mexican Society of Neurosurgery, Cabo San Lucas Mexico, November 2008
87. Course Organizer and Director: 3rd Endonasal & Skull Base Keyhole Surgery Course with Cadaver Microdissection. Palm Beach, Florida, February 2009
88. "Neurosurgical Techniques for Residual Pituitary Adenomas" 2nd Nordic Neuroendocrine Symposium, Copenhagen, Denmark, March 2009
89. "Complication Avoidance in Endonasal Surgery: CSF Leaks and New Pituitary Failure" 2nd Nordic Neuroendocrine Symposium, Copenhagen, Denmark, March 2009
90. "Endonasal Surgery for Pituitary Adenomas & Rathke's Cleft Cysts" Cho Ray Hospital, Ho Chi Minh City, Vietnam, March 2009
91. "Complication Avoidance in Endonasal Surgery" American Association of Neurological Surgeons Annual Meeting, San Diego, May 2009
92. "Decision Making in Meningioma Management" 20th North American Skull Base Society Annual Meeting, New Orleans, October 2009
93. "Keyhole Surgical Techniques and Limits" Chilean Neurosurgical Congress, Concepcion, Chile, December 2009
94. "Endonasal Approach for Sellar and Suprasellar Tumors" Chilean Neurosurgical Congress, Concepcion, Chile, December 2009
95. Course Organizer and Director: 4th Endonasal & Skull Base Keyhole Surgery Course with Cadaver Microdissection. Palm Beach, Florida, February 2010
96. Course Co-Organizer: 1st Endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and cranio-cervical junction. Santa Monica, April 2010
97. Course Organizer: 3rd Minimally Invasive Keyhole Skull Base Surgery Course. Santa Monica, April 2010
98. "Endonasal Surgery for Pituitary Adenomas & Parasellar Tumors" American Association of Neurological Surgeons Annual Meeting, Philadelphia, May 2010
99. "Maximizing Pituitary Gland Function in Endonasal Surgery" American Association of Neurological Surgeons Annual Meeting, Philadelphia, May 2010
100. Brain, Pituitary and Skull Base Tumors. Minimally Invasive Brain Surgery Options. Your Brain – Your Health, Community Education Program. Santa Monica, CA. June 2010.
101. "Pharmacotherapy vs Surgery as Primary Therapy for Patients with Acromegaly: A Debate" Case-based approach to understanding the pitfalls in pituitary tumors and a clinical debate on the management of acromegaly. Endocrine Society Annual Meeting, San Diego, June 2010

102. "Minimally Invasive Neurosurgery in 2010: Brain, pituitary and Skull Base Tumors". 62nd Annual Postgraduate Assembly in Healthcare, Santa Monica, September 2010
103. Symposium Organizer and Director: 5th California Pituitary Conference, Santa Monica, CA, October 2010
104. Symposium Organizer and Director: 1st California Hormonal & Pituitary Health Symposium, Santa Monica, CA, October 2010
105. "Anatomy and Imaging of the Pituitary Gland in Sickness & in Health". The 1st California Hormonal & Pituitary Health Symposium, Marina del Rey, CA, October 2010
106. "Endonasal Pituitary Surgery-What's Possible (and not) in 2010". The 1st California Hormonal & Pituitary Health Symposium, Marina del Rey, CA, October 2010
107. "Brain, Pituitary and Skull Base Tumors: Correlating Tumors with Signs & Symptoms- Minimally Invasive Brain Surgery Options". 1st Annual Neuroscience Nursing Symposium, Santa Monica, CA, November 2010
108. "Graded CSF Leak Repair Technique in Endonasal Surgery". 360° MIND: Endoscopic Endonasal & Keyhole Surgery of the Skull Base, Pituitary Fossa, Orbit and Cranio-Cervical Junction: A Comprehensive Hands-On Course, Santa Monica, CA, November 2010
109. "Maximizing Pituitary Gland Function in Pituitary & Parasellar Surgery". 360° MIND: Endoscopic Endonasal & Keyhole Surgery of the Skull Base, Pituitary Fossa, Orbit and Cranio-Cervical Junction: A Comprehensive Hands-On Course, Santa Monica, CA, November 2010
110. Supraorbital Eyebrow Craniotomy for Suprasellar and Planum Pathology: Operative Technique and Eyebrow vs Endonasal Decision Making". 360° MIND: Endoscopic Endonasal & Keyhole Surgery of the Skull Base, Pituitary Fossa, Orbit and Cranio-Cervical Junction: A Comprehensive Hands-On Course, Santa Monica, CA, November 2010
111. "Prosection: Supraorbital Eyebrow Craniotomy". 360° MIND: Endoscopic Endonasal & Keyhole Surgery of the Skull Base, Pituitary Fossa, Orbit and Cranio-Cervical Junction: A Comprehensive Hands-On Course, Santa Monica, CA, November 2010
112. Course Organizer and Director: 5th Endonasal & Skull Base Keyhole Surgery Course with Cadaver Microdissection. Palm Beach, Florida, February 2011
113. "Transcranial approaches to the anterior cranial fossa", Course – Endoscopic & Keyhole Surgery Techniques for Brain Tumor, Sydney, Australia, March 2011
114. "Keyhole approaches to the sella", Course – Endoscopic & Keyhole Surgery Techniques for Brain Tumor, Sydney, Australia, March 2011
115. "The supraorbital approach for removal of intra-axial brain tumors" Neurosurgical Society of America Annual Meeting, Hawaii, March 2011
116. "Endonasal vs Supraorbital approach for parasellar and frontal fossa pathology" Course: Endoscopic Endonasal Surgery of the Cranial Base and Pituitary Fossa; University of Pittsburgh, May 2011

117. "Saving the Master Gland in endonasal surgery" Course: Endoscopic Endonasal Surgery of the Cranial Base and Pituitary Fossa; University of Pittsburgh, May 2011
118. "Keyhole brain tumor surgery options: endonasal vs supraorbital" Guest Professor, UC Davis Department of Neurosurgery, May 2011
119. "Hypopituitarism in retired professional football players: a prospective study", 12th International Pituitary Conference, Boston, June 2011
120. Symposium Organizer and Director: 2nd California Hormonal & Pituitary Health Symposium, Santa Monica, CA, October 2011
121. "Endonasal endoscopic & supraorbital routes for pituitary, parasellar and frontal fossa tumors" Guest Professor, Stanford Department of Neurosurgery, November 2011
122. Course Organizer and Director: 6th Endonasal & Skull Base Keyhole Surgery Course with Cadaver Microdissection. Las Vegas, February 2012
123. "Keyhole Approaches for intra-axial & deep brain tumors" 23rd North American Skull Base Society Annual Meeting, Las Vegas, February 2012
124. "Transition from Microscope to Endoscope for Pituitary & Parasellar Tumors", 2012 Chinese Seminar of Minimally Invasive and Neuro-Endoscopic Neurosurgery, Xiamen, China June 2012
125. "The Endoscope in Keyhole Brain Tumor Removal", 2012 Chinese Seminar of Minimally Invasive and Neuro-Endoscopic Neurosurgery, Xiamen, China June 2012
126. "The value of endoscopy of maximizing tumor removal in endonasal pituitary adenoma surgery" International Society of Pituitary Surgeons, Montreal, Quebec, Canada, June 2012
127. "Metastatic Brain Tumors – Comprehensive Management in 2012" Post-Graduate Assembly: Innovations in Healthcare in Practice at Saint John's, Santa Monica September 2012
128. "Endonasal pituitary surgery – transition from microscope to endoscope: how & why" Pituitary Disorders: Advances in Diagnosis and Management, UCSF, San Francisco October 2012
129. "The extended endonasal approach for parasellar tumors- transition from endoscope-assisted to fully endoscopic" Skull Base and Intraventricular Neuro-Endoscopy Course, Emory University, Atlanta, November 2012
130. "Complication avoidance in endonasal endoscopic surgery" Skull Base and Intraventricular Neuro-Endoscopy Course, Emory University, Atlanta, November 2012
131. Course Organizer and Director: 7th Endonasal & Skull Base Keyhole Surgery Course with Cadaver Microdissection. Beverly Hills, CA, January-February 2013
132. "Sellar and Suprasellar Tumors" North American Skull Base Society Annual Meeting, Miami, February 2013

133. "Endoscopic Repair of CSF Leaks" Research Study Club of Los Angeles, Recent Advances in Otolaryngology 81st meeting. Los Angeles, February 2013
134. "Carotid Artery Management in Removal of Sellar and Parasellar Tumors" Advances in Surgical Treatment of Sellar and Parasellar Neoplastic Lesions Meeting, Lugano, Switzerland March 2013
135. "Complication avoidance in endonasal endoscopic surgery" Transsphenoidal Surgery Course, American Association of Neurological Surgeons Annual Meeting , New Orleans, April 2013
136. Conference Organizer and Director: 6th California Pituitary Conference, Santa Monica, CA, May 2013
137. "From Concussion to Coma – Post-TBI Hypopituitarism" 14th Annual Nicholas T. Zervas Lectureship, Massachusetts General Hospital, Boston, May 2013
138. "Endoscopic Resection of Pituitary Tumors: Achieving Hormonal Cure & Avoiding Complications" Cornell University Endoscopic Surgery Course, New York, June 2013
139. "Supraorbital vs Endonasal Route for Anterior Cranial Fossa & Cribiform Pathology" Cornell University Endoscopic Surgery Course, New York, June 2013
140. "Technical Advances & Complication Avoidance in Endonasal Endoscopic & Keyhole Surgery" University of Naples Visiting Professor, Naples, Italy, August 2013
141. "Seeing is believing – the endoscopic paradigm shift in pituitary surgery" California Chapter of American Association of Clinical Endocrinologists 13th Annual Meeting, Los Angeles, October 2013
142. "How I do it: pituitary tumors" 1st Dandy Division of Skull Base Surgery Meeting, St Louis, October 2013
143. "Supraorbital Craniotomy for Anterior Cranial Fossa & Cribiform Pathology", Keyhole Hands-on Surgery Course, Annual Congress of Neurological Surgeons Meeting, San Francisco, October 2013
144. "Management of Giant/Invasive Pituitary Tumors" North American Skull Base Society Annual Meeting, San Diego, February 2014
145. "Non-Functional Pituitary Tumors" North American Skull Base Society Annual Meeting, San Diego, February 2014
146. "Functional Adenomas" North American Skull Base Society Annual Meeting, San Diego, February 2014
147. "Craniopharyngiomas" USC Advanced Endoscopic Course, Los Angeles, February 2014
148. "Complication avoidance – carotid artery injury" American Association of Neurological Surgeons Annual Meeting, San Francisco, April 2014
149. "Endoscopic Treatment of Meningiomas: When & How" Endomilano , Milan, April 2014
150. "Center of Excellence Development" Endomilano , Milan, April 2014
151. "Brother Beware – Carotid artery injury in endoscopic surgery" Endomilano , Milan, April 2014

152. “Surgical options for treating pituitary tumors” Magic Foundation, San Antonio, April 2014
153. “Endoscope-Assisted Keyhole Craniotomy” Storz Neuroendoscopy Interactive Web Symposium, June 2014
154. “Endonasal Endoscopic Approach to Pituitary & Parasellar Tumors: Maximizing Tumor Removal & Complication Avoidance” NYU Minimally Invasive Neurosurgery Course, New York, June 2014
155. “Supra-orbital & Other Keyhole Approaches to Supratentorial Tumors NYU Minimally Invasive Neurosurgery Course, New York, June 2014
156. “Surgery & Radiotherapy Interventions in the Treatment of Cushing’s Disease” Endocrine Society CME Course, San Francisco, September 2014
157. “Supraorbital Keyhole Approach” in Endonasal & Keyhole Hands-on Surgery Course, Congress of Neurological Surgeons Annual Meeting, Boston, October 2014
158. Course Co-Director, Endonasal & Keyhole Hands-on Surgery Course, Congress of Neurological Surgeons Annual Meeting, Boston, October 2014
159. “Evolution in Skull Base Surgery: From Microscope to Endoscope” Endonasal Endoscopic Hands-on Skullbase Surgery Course, Boras, Sweden, October 2014
160. “Endoscopic Removal of Pituitary Adenomas and Craniopharyngiomas” Endonasal Endoscopic Hands-on Skullbase Surgery Course, Boras, Sweden, October 2014
161. “Endoscopic & Endoscope-Assisted Approaches for Parasellar & Anterior Skull Base Meningiomas” Endonasal Endoscopic Hands-on Skullbase Surgery Course, Boras, Sweden, October 2014
162. “Endonasal Endoscopic & Supraorbital Skull Base Approaches” 16th Training Course of National Advanced Neuroendoscopy and Endoscope-Assisted Microsurgery, Shanghai Huashan Hospital & Fudan University, Shanghai, November 2014
163. “From Concussion to Coma: Traumatic Brain Injury Induced Hypopituitarism” Barrow Pituitary Symposium: Pearls in the Clinical Management of Pituitary Tumors, Phoenix, November 2014
164. “Multimodality Treatment of Adult Craniopharyngioma” Barrow Pituitary Symposium: Pearls in the Clinical Management of Pituitary Tumors, Phoenix, November 2014
165. Conference Organizer and Director: 7th California Pituitary & Endocrine Conference, Santa Monica, CA, January 2015
166. “Endonasal Endoscopic Surgery for Pituitary Adenoma – Technical Nuances” at Transnasal Endoscopic Skull Base Surgery Workshop, Mumbai, February 2015
167. “Cushing’s Disease – Pre-op Evaluation & Endoscopic Surgical Technique” at Transnasal Endoscopic Skull Base Surgery Workshop, Mumbai, February 2015
168. “Craniopharyngioma – Endoscopic Surgery” at Transnasal Endoscopic Skull Base Surgery Workshop, Mumbai, February 2015

169. “CSF Leak Graded Repair in Endoscopic Endonasal Surgery” at Transnasal Endoscopic Skull Base Surgery Workshop, Mumbai, February 2015
170. “The Carotid Artery in Endonasal Surgery” at Transnasal Endoscopic Skull Base Surgery Workshop, Mumbai, February 2015
171. “Endonasal Endoscopic Surgery for Pituitary Adenoma – Technical Nuances” at 4th Huashan Neuroendocrine Forum, Shanghai, May 2015
172. “Cushing’s Disease – Pre-op Evaluation & Endoscopic Surgical Technique” at 4th Huashan Neuroendocrine Forum, Shanghai, May 2015
173. “Pituitary Surgery – Tips for Success” at 2nd Endoscopic Skull Base Masterclass & Symposium, Amsterdam, June 2015
174. “Surgery for Suprasellar Craniopharyngioma” at 2nd Endoscopic Skull Base Masterclass & Symposium, Amsterdam, June 2015
175. “Implementation of Endoscopes for Intracranial Surgery” North American Skull Base Society Meeting, Scottsdale, February 2016
176. “Avoiding Carotid Injury & Gland Injury in Pituitary Adenoma Surgery” North American Skull Base Society Meeting, Scottsdale, February 2016
177. “Current-day Role of Surgery for Brain Metastases” at Indian Society of Neuro-Oncology Annual Meeting, Hyderabad, April 2016
178. “Skull Base Tumors: Surgical Challenges & Minimally Invasive Approaches” at Indian Society of Neuro-Oncology Annual Meeting, Hyderabad, April 2016
179. “Avoiding Complications in Pituitary Surgery” at EndoChicago Meeting, May 2016
180. “Above or Below: Decision making for Anterior Skull Base Pathology” at EndoChicago Meeting, May 2016
181. “Supraorbital Craniotomy: Technical Nuances and Applications for Intra-axial Brain Tumors” at EndoChicago Meeting, May 2016
182. “Advancing Targeted Brain Tumor Care - Less is More Approach” John Jane Lectureship Series; Grand Rounds, Swedish Neuroscience Institute. Seattle, June 2016
183. “Supraorbital Eyebrow Craniotomy - Technical Nuances & Case Selection” Pituitary Surgery Practical Course, Congress of Neurological Surgeons Annual Meeting, San Diego, September 2016
184. “How I do It – Pituitary Tumors” Walter Dandy Meeting, Santa Monica, November 2016
185. “Complication Avoidance in Endoscopic Skull base Surgery” Walter Dandy Meeting, Santa Monica, November 2016

186. “Endonasal endoscopic surgery for Cushing’s disease – technical nuances and outcomes” at Beijing International Congress of Pituitary Adenoma. Beijing, May 2017
187. “Endonasal endoscopic removal of Craniopharyngioma” at Beijing International Congress of Neuroendoscopy. Beijing, May 2017
188. “Keyhole Surgery for Primary and Metastatic Brain Tumors – Less is More” at Pacific Neuroscience Symposium, September 2017 (and Symposium Director)
189. “Pituitary Adenoma Surgery: Complication Avoidance While Pushing the Remission Envelope” at Pacific Neuroscience Symposium, September 2017
190. “Supraorbital Eyebrow Craniotomy - Technical Nuances & Case Selection” Pituitary Surgery Practical Course, Congress of Neurological Surgeons Annual Meeting, Boston, October 2017
191. “Craniopharyngioma: Endonasal Endoscopic Removal” Congress of Neurological Surgeons Annual Meeting, Boston, October 2017
192. “Keyhole and endoscopic approaches for brain and skull base tumors in the era of personalized medicine” 10th Cooperative Trails Group for Neuro-Oncology Annual Scientific Meeting, Melbourne October 2017
193. “Near future neurosurgery - building upon what we do now for the decades ahead” 10th Cooperative Trails Group for Neuro-Oncology Annual Scientific Meeting, Melbourne October 2017
194. Endoscopic Pituitary Surgery: Lessons Learned in Maximizing Resection & Complication Avoidance. 28th Meeting of Japanese Society for Hypothalamic & Pituitary Tumors, Hamamatsu, February 2018
195. Supraorbital Approach: Step-by-step. North American Skull Base Society Meeting, San Diego, February 2018
196. Centers of Excellence – is it Time? North American Skull Base Society Meeting, San Diego, February 2018
197. Avoiding Complications and Optimizing Outcomes in Pituitary Surgery: CSF Leaks and Meningitis. North American Skull Base Society Meeting, San Diego, February 2018
198. Pituitary Centers of Excellence Implementation (with Dr. Shlomo Melmed). International Society of Pituitary Surgeons, San Diego, February 2018
199. If not Cushing’s then What is It? International Society of Pituitary Surgeons, San Diego, February 2018
200. Complication Avoidance in Transsphenoidal Surgery. American Association of Neurological Surgeons Annual Meeting, New Orleans, April 2018
201. Parasellar Meningiomas Invading the Cavernous Sinus & Meckel’s Cave: Strategy, Technique & Outcomes. EndoBarcelona 2018, Barcelona July 2018
202. Clival Chordoma: EndoBarcelona 2018, Barcelona July 2018

203. The Utility of the Doppler in Avoiding Vascular Injury in Endoscopic Skull Base Surgery: EndoBarcelona 2018, Barcelona July 2018
204. Training in Endoscopic Surgery: EndoBarcelona 2018, Barcelona July 2018
205. Supraorbital Approach Step-by-Step Sellar, Suprasellar & Frontal Fossa Tumors. Annual Senior Residents Course, North American Skull Base Society, New Orleans July 2018
206. Optimizing Outcomes in Pituitary Surgery: Importance of Multidisciplinary Approach: American Association of Clinical Endocrinologists, California Chapter Meeting. Marina Del Rey September 2018
207. Course Director and Lecturer: *Pacific Rim Master Class in Endoscopic Endonasal and Keyhole Surgery* in Santa Monica January 24-27, 2019
208. Complication Avoidance in Pituitary Surgery. North American Skull Base Society Meeting, Orlando, February 2019
209. Decisions Regarding Approaches for Parasellar Meningiomas and Craniopharyngiomas. North American Skull Base Society Meeting, Orlando, February 2019
210. Complication Avoidance in Endonasal Endoscopic Surgery. AANS Meeting, San Diego, April 2019
211. Keyhole and Endoscopic Brain Tumor Surgery: Pitfalls, Pearls and Progress. 35th Portuguese Neurosurgical Society Meeting, Lisbon May 2019
212. Course Co-Director (with Dr. Chester Griffiths): Endoscopic Endonasal & Keyhole Surgery Hands-On Microdissection Course (with multiple lectures) as Part of 2019 Sichuan Skull Base Surgery Annual Meeting and 4th Huaxi Skull Base Neurosurgery Forum, Chengdu, China, July 2019
213. State of the Art: Endoscopic Endonasal Skull Base Surgery. Chilean Neurosurgical Congress, Vina Del Mar, Chile, October 2019
214. Endoscopic Gravity-Assisted Removal of Brain Tumors. Chilean Neurosurgical Congress, Vina Del Mar, Chile, October 2019
215. Endonasal versus Supraorbital Approach for Tuberculum Sella Meningiomas. Chilean Neurosurgical Congress, Vina Del Mar, Chile, October 2019
216. Avoiding Endoscopic & Keyhole Surgery Complications. Congress of Neurological Surgeons Annual Meeting October 2019, San Francisco
217. Anterior Cranial Base Supraorbital Craniotomy: Step-by-Step and Indications. North American Skull Base Society Meeting, San Antonio, February 2020
218. Management of Rathke's Cleft Cysts: When is Surgery or Reoperation Necessary. North American Skull Base Society Meeting, San Antonio, February 2020
219. Endoscopic and keyhole approaches for brain and skull base tumors - rationale, nuances & outcomes. Virtual Visiting Professor. Congress of Neurological Surgeons, June 2020

220. Tuberculum Sella Meningioma: Endoscopic Endonasal vs Supraorbital Removal. 2nd Rhoton Society Virtual Meeting - Contemporary Skull Base Surgery: 6+1 Skull Base Approaches; Stanford University September 2020
221. Mini-Pterional & Supraorbital Eyebrow Approach. NASBS Skull Base Surgery Virtual Workshop, November 2020
222. Endoscopic Endonasal Approach to Craniopharyngioma. WFNS Neuroendoscopy Committee Webinar Series – 7 "Extended Endonasal skull base approaches" November 2020
223. Tuberculum Sella Meningioma Decision Making & Technical Nuances for Endoscopic Endonasal vs Supraorbital Removal. The Neurosurgical Atlas Series with Aaron Cohen-Godal, MD, November 2020
224. Avoiding Carotid Injuries & Hypopituitarism In Endonasal Surgery. Cerebrovascular & Skull Base Symposium. University of Miami, Dec 2020
225. Tuberculum Sella Meningioma - Endoscopic Endonasal vs Supraorbital Removal. 7th Annual Meeting of Neuroendoscopy Society – India, April 2021
226. Supraorbital vs Endonasal Corridors in Anterior Skull Base Surgery. International Federation of Neuroendoscopy April 2021
227. Past, Present & Future of Psychedelic-Assisted Therapy: A New Dawn for Mental Health & Neuroscience? Saint John's Cancer Institute, June 2021
228. Rathke's Cleft Cysts: Observation versus Surgery. (virtual) Reunion Clinica: Programa de Tumores Hipofisarios UC-Christus, Chile, August 2021
229. Past, Present & Future of Psychedelic-Assisted Therapy: A New Dawn for Mental Health & Neuroscience? Claremont McKenna College Athenaeum Series, Sept 2021
230. Endoscopic Endonasal vs Transcranial Approach for Anterior Skull Base Meningiomas. 5th ISMINS Conference (virtual), Jakarta, Indonesia, Sept 2021
231. Skull Base Reconstruction in Endoscopic Endonasal Surgery. 6th Annual Course for Microscopic and Endoscopic Approaches to the Skull Base, Univ of Colorado School of Medicine, Nov 2021
232. Endoscopic Endonasal Pituitary Adenoma Surgery. 6th Annual Course for Microscopic and Endoscopic Approaches to the Skull Base, Univ of Colorado School of Medicine, Nov 2021
233. Extended Endonasal Approaches to Parasellar Skull Base Tumors. International Symposium on Neurological Integration (Virtual), Brazil, Dec 2021