

# Kunal Prakash Raygor

## Employment

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7/2024-present Assistant Professor of Neurological Surgery, Vanderbilt University Medical Center

## Education

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7/2022-6/2024 Endovascular Fellowship, University at Buffalo Neurosurgery

7/2015-6/2022 Neurological Surgery Residency Program, University of California, San Francisco

9/2010-6/2015 University of California, San Francisco, School of Medicine, M.D.

9/2006-6/2010 Harvard University, A.B., *Magna Cum Laude with Highest Honors* in Neurobiology

## Grants and Awards

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2022 Harold Rosegay Teaching Award, UCSF Department of Neurological Surgery

2022 Robert Florin, MD Resident Award, AANS

2019 Awarded but declined NIH NHLBI F32 Research Grant

2019 NIH NINDS R25 Research Grant

2018 Walter H. Sweet Young Investigator Award, AANS/CNS Joint Section on Pain

2018 Resident Clinical Research Award, UCSF Department of Neurological Surgery

2016 Krevans Award for Excellence in Patient Care, UCSF

2016 Resident Clinical Research Award, UCSF Department of Neurological Surgery

2013 UCSF Clinical and Translational Research Fellowship Program

2011 American Association of Neurological Surgeons Medical Student Summer Research Fellowship

2010 *Summa Cum Laude* for senior honor's thesis, Harvard University

2009 PRISE Fellow, Harvard University

2008 David Rockefeller International Experiences Grant, Harvard University

## Peer-reviewed Publications

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1. Scullen TA, Lian MX, Jaikumar V, Gay JL, Lai PMR, McPheeters MJ, Housley SB, **Raygor KP**, Bouslama M, Khan HS, Siddiqui AH, Davies JM, Moreland DB, Levy EI. First reported series of cerebral angiography performed at an outpatient center: Safety and satisfaction results. Neurosurgery (2024) (PMID: 39041790)
2. Santo BA, Poppenberg KE, Ciecierska SS, Baig AA, **Raygor KP**, Patel TR, Shah M, Levy EI, Siddiqui AH, Tutino VM. Hybrid clot histomic-transcriptomic models predict functional outcome after mechanical thrombectomy in acute ischemic stroke. Neurosurgery (2024) (PMID: 38829781)
3. Chintapalli R, Nguyen S, Taussky P, Grandhi R, Dammann P, **Raygor K**, Tonetti DA, Andersson T, White P, Ogilvy CS, Chapot R, Fox WC, Tawk RG, Lanzino G, Hanel R, Jadhav A, Hassan AE, Linfante I, Almefty R, Mascitelli J, Fargen K, Levitt MR, Burkhardt JK, Jankowitz BT, Jabbour P, Starke RM, Gross BA, Kan P, Killer-Oberpfalzer M, Rautio R, Dmytriw AA, Coulthard A, Dabus G, Raper D, Deuschl C, Kilburg C, Budohoski KP, Abula AA. Management of failed flow diversion for intracranial aneurysm beyond the first 6 months of follow-up: an international Delphi consensus. J Neurosurg (2024) (PMID: 38820616)
4. Drexler R, Sauvigny J, Pantel TF, Ricklefs FL, Catapano JS, Wanebo JE, Lawton MT, Sanchin A, Hecht N, Vajkoczy P, **Raygor KP**, Tonetti DA, Abula A, El Naamani KE, Tjoumakaris SI, Jabbour P, Jankowitz BT, Salem MM, Burkhardt JK, Wagner A, Wostrack M, Gempt J, Meyer B, Gaub M, Mascitelli JR, Dodier P, Bavinski G, Roessler K, Stroh N, Gmeiner M, Gruber A, Figueiredo EG, Samaia da Silva Coelho AC, Bervitskiy AV, Anisimov ED, Rzaev JA, Krenzlin H, Keric N, Ringel F, Park D, Kim MC, Marcati E, Cenzato M, Westphal M, Sauvigny T, Dührsen L. Sex-dependent characteristics and outcomes after clipping of unruptured intracranial aneurysms: a multicenter propensity score-matched study. J Neurosurg (2024) (PMID: 38820613)
5. Housley SB, McPheeters MJ, **Raygor KP**, Bouslama M, Scullen T, Davies JM. Cavernous sinus thrombosis. Neurosurg Clin N Am (2024) (PMID 38782523)

# Kunal Prakash Raygor

6. Santo BA, Poppenberg KE, Ciecierska SS, Lim J, Baig AA, Jaikumar V, **Raygor KP**, Patel TR, Shah M, Levy EI, Siddiqui AH, Tutino VM. Decoding molecular mechanisms underlying outcomes after ischemic stroke thrombectomy by RNA sequencing of retrieved clots. Mol Diagn Ther (2024) (PMID 38769267)
7. Osorio RC, **Raygor KP**, Rinaldo L, Fox CK, Bhasin N, Ablal AA, Gupta N. Risk factors associated with in-hospital complications for pediatric sickle-cell disease-associated moyamoya syndrome: a nationwide cross-sectional study. Childs Nerv Syst (2024) (PMID 38530413)
8. Lim J, Donnelly BM, Jaikumar V, Kruk MD, Kuo CC, Monteiro A, Siddiqui M, Baig AA, Patel D, **Raygor KP**, Snyder KV, Davies JM, Levy EI, Siddiqui AH. Transvenous embolization of noncavernous dural arteriovenous fistulas (dAVFs): A systematic review and meta-analysis. Interv Neuroradiol (2024) (PMID 38414437)
9. Sauvigny J, Drexler R, Pantel TF, Ricklefs FL, Catapano JS, Wanebo JE, Lawton MT, Sanchin A, Hecht N, Vajkoczy P, **Raygor K**, Tonetti D, Ablal A, El Naamani K, Tjoumakaris SI, Jabbour P, Jankowitz BT, Salem MM, Burkhardt JK, Wagner A, Wostrack M, Gempt J, Meyer B, Gaub M, Mascitelli JR, Dodier P, Bavinski G, Roessler K, Stroh N, Gmeiner M, Gruber A, Figueiredo EG, Coelho ACS, Bervitskiy AV, Anisimov ED, Rzaev JA, Krenzlin H, Keric N, Ringel F, Park D, Kim MC, Marcati E, Cenzato M, Krause L, Westphal M, Dührsen L, Sauvigny T. Microsurgical clipping of unruptured anterior circulation aneurysms – A global multicenter investigation of perioperative outcomes. Neurosurgery (2024) (PMID 38240568)
10. Baig AA, Manion C, Khawar WI, Donnelly BM, **Raygor K**, Turner R, Holmes DR, Iyer VS, Hopkins LN, Davies JM, Levy EI, Siddiqui AH. Cerebral emboli detection and autonomous neuromonitoring using robotic transcranial doppler with artificial intelligence for transcatheter aortic valve replacement with and without embolic protection devices: a pilot study. J Neurointerv Surg (2023) (PMID 37940386)
11. Baig AA, Bouslama M, Turner RC, Aguirre AO, Kuo CC, Lim J, Malueg MD, Donnelly BM, Lai PMR, **Raygor KP**, Levy EI, Siddiqui AH. Mechanical thrombectomy in low Alberta stroke program early CT score (ASPECTS) in hyperacute stroke – a systematic review and meta-analysis. Br J Radiol (2023) (PMID 37873928)
12. Drexler R, Sauvigny T, Pantel TF, Ricklefs FL, Catapano JS, Wanebo JE, Lawton MT, Sanchin A, Hecht N, Vajkoczy P, **Raygor K**, Tonetti D, Ablal A, El Naamani K, Tjoumakaris SI, Jabbour P, Jankowitz BT, Salem MM, Burkhardt JK, Wagner A, Wostrack M, Gempt J, Meyer B, Gaub M, Mascitelli JR, Dodier P, Bavinski G, Roessler K, Stroh N, Gmeiner M, Gruber A, Figueiredo EG, da Silva Coelho ACS, Bervitskiy AV, Anisimov ED, Rzaev JA, Krenzlin H, Keric N, Ringel F, Park D, Kim MC, Marcati E, Cenzato M, Westphal M, Dührsen L. Global outcomes for microsurgical clipping of unruptured intracranial aneurysms: A benchmark analysis of 2245 cases. Neurosurgery (2023) (PMID 37732745)
13. Levy BR, Monteiro A, **Raygor KP**, Donnelly BM, Davies JM, Snyder KV, Siddiqui AH, Levy EI, Sigounas D. Visual morbidity in patients with ophthalmic segment aneurysms treated with flow diverters: A dual-center experience. Neurosurgery (2023) (PMID 37721433)
14. Bouslama M, Baig AA, **Raygor KP**, Turner RC, Kuo CC, Donnelly BM, Lim J, Monteiro A, Jaikumar V, Lai PMR, Davies JM, Snyder KV, Levy EI, Siddiqui AH. Mechanical thrombectomy in low Alberta Stroke Program Early Computed Tomographic Score: A systematic review and meta-analysis of randomized controlled trials. Interv Neuroradiol (2023) (PMID 37574930)
15. **Raygor KP**, Rinaldo L, Dubnicoff TB, Shih T, Chang EF, Ablal AA. Awake craniotomy and electrocorticography-guided extended lesionectomy of motor cortex cavernoma: 2-dimensional operative video. Oper Neurosurg (Hagerstown) (2023) (PMID 37441797)
16. Garcia JH, Carrete L, Rutledge WC, **Raygor KP**, Winkler EA, Pereira MP, Nelson J, Kim H, Cooke DL, Hetts SW, Lawton MT, Ablal AA. Factors associated with unfavorable clinical presentations in patients with ruptured brain arteriovenous malformations. World Neurosurg (2023) (PMID 37422187)

# Kunal Prakash Raygor

17. Housley SB, Turner RC, Bousslama M, Lim J, **Raygor KP**, Lai PMR, Monteiro A, Baig AA, Nyabuto E, Davies JM, Siddiqui AH, Snyder KV, Levy EI. Expansion and subsequent rupture of carotid pseudoaneurysm after tandem carotid and middle cerebral artery occlusion treated with mechanical thrombectomy and carotid stenting. Oper Neurosurg (Hagerstown) (2023) (PMID 37387562)
18. Tonetti DA, Rinaldo L, **Raygor KP**, Dubnicoff TB, El-Sayed H, Abila AA. Common carotid-greater saphenous-M2 bypass for myoepithelial carcinoma encasing the carotid artery. World Neurosurg (2023) (PMID 37268186)
19. Baig AA, Lai PMR, Turner RC, Donnelly BM, Kuo CC, Lim J, **Raygor KP**, Bousslama M, Prasad S, Fayyaz N, Snyder KV, Davies JM, Siddiqui AH, Levy EI. Hyperacute stenting and angioplasty for acute extracranial non-tandem internal carotid artery strokes within the first 48 h: A 20-year experience and a systematic review and meta-analysis. Interv Neuroradiol (2023) (PMID 37218164)
20. Monteiro A, Lim J, Siddiqui M, Donnelly BM, Khawar W, Baig A, Turner RC, Bousslama M, **Raygor KP**, Lai PMR, Housley SB, Davies JM, Snyder KV, Siddiqui AH, Levi EI. The first decade of flow diversion for intracranial aneurysms with the Pipeline embolization device. Neurosurg Focus (2023) (PMID 37127038)
21. Huang L, Cheng F, Zhang X, Zielonka J, Nystoriak MA, Xiang W, **Raygor K**, Wang S, Lakshmanan A, Jiang W, Yuan S, Hou KS, Zhang J, Wang X, Syed AU, Juric M, Takahashi T, Navedo MF, Wang RA. Nitric oxide synthase and reduced arterial tone contribute to arteriovenous malformation. Sci Adv (2023) (PMID 37235659)
22. Baig AA, Waqas M, Turner RC, Kuo CC, Donnelly BM, Lai PMR, **Raygor KP**, Bousslama M, Lim J, Neumaier Bs J, Cappuzzo JM, Davies JM, Snyder KV, Siddiqui AH, Levy EI. A propensity score-matched comparative study of balloon guide catheters versus conventional guide catheters for concurrent mechanical thrombectomy with carotid stenting in tandem strokes: comparison of first-pass effect, symptomatic intracranial hemorrhage, and 90-day functional outcomes. J Neurointerv Surg (2023) (PMID 37076277)
23. Bousslama M, Kuo CC, Monteiro A, Lim J, Turner R, **Raygor K**, Lai PMR, Baig AA, Davies JM, Snyder KV, Levy EI, Siddiqui AH: Mechanical thrombectomy versus medical management for acute basilar artery occlusions: A meta-analysis of randomized trials. Interv Neuroradiol (2023) (PMID 37005965)
24. Lu AY, Winkler EA, Garcia JH, **Raygor KP**, Fullerton HJ, Fox CK, Kim H, Auguste KI, Sun PP, Hetts SW, Lawton MT, Abila AA, Gupta N: A comparison of incidental and symptomatic unruptured brain arteriovenous malformations in children. J Neurosurg Pediatr (2023) (PMID 36805316)
25. Tonetti DA, **Raygor KP**, Dubnicoff T, Abila AA: Side-to-Side M2-M2 bypass for revascularization and trapping of left M2 origin fusiform aneurysm presenting with subarachnoid hemorrhage: 2-dimensional operative video. Oper Neurosurg (Hagerstown) (2023) (PMID 36637321)
26. Nielsen CM, Zhang X, **Raygor K**, Wang S, Bollen A, Wang RA: Endothelial Rbpj deletion normalizes Notch4 induced brain arteriovenous malformation in mice. J Exp Med (2023) (PMID 36441145)
27. Salem MM, Srinivasan VM, Tonetti DA, Ravindran K, Taussky P, Yang K, Karahalios K, **Raygor KP**, Naylor RM, Catapano JS, Tavakoli-Sabour S, Abdelsalam A, Chen SH, Grandhi R, Jankowitz BT, Baskaya MK, Mascitelli JR, Van Gompel JJ, Cherian J, Couldwell WT, Kim L, Cohen-Gadol AA, Starke RM, Kan P, Dehdashti AR, Abila AA, Lawton MT, Burkhardt JK: Microsurgical obliteration of craniocervical dural arteriovenous fistulas: Multicenter experience. Neurosurgery (2023) (PMID 36519864)
28. **Raygor KP**, Garcia J, Rutledge C, Tonetti DA, Raper DMS, Abila AA: The lateral supraorbital craniotomy approach for anterior circulation aneurysms: A modern surgical case series in the endovascular era. World Neurosurg (2022) (PMID 35926698)
29. **Raygor KP**, Caton MT, Tonetti DA, Dubnicoff TB, Abila AA: Intermediate-porosity stent for coil-reconstruction of mixed saccular-fusiform basilar trunk aneurysm. Interv Neuroradiol (2022) (PMID 35916413)
30. Manuel SP, Chia ZK, **Raygor KP**, Fernández A: Association of language barriers with process outcomes after

# Kunal Prakash Raygor

- craniotomy for brain tumor. Neurosurgery (2022) (PMID 35857019)
31. Budohoski KP, **Raygor K**, Cook D, Henrich T, Abula AA: Rapid sequential development and rupture of mycotic aneurysms within a period of days in a patient with graft-versus-host disease and angiotropic *Scedosporium apiospermum* infection. Surg Neurol Int (2022) (PMID 35855168)
  32. **Raygor KP**, Caton MT, Tonetti DA, Baker A, Dubnicoff TB, Abula AA: Staged stent-assisted, transcirculatory coiling of partially-thrombosed, mixed saccular and fusiform SCA aneurysm. Interv Neuroradiol (2022) (PMID 35850562)
  33. Budohoski KP, **Raygor K**, Tonetti DA, Narsinh KH, Winkler EA, Dowd C, Abula AA: Intraoperative angiogram using C-arm fluoroscopy and direct common carotid artery puncture during surgical treatment of paraclinoid aneurysms. World Neurosurg (2022) (PMID 35779758)
  34. Baker A, **Raygor K**, Caton MT Jr, Narsinh KH, Smith E, Dowd CF, Cooke DL, Higashida RT, Amans MR, Abula AA, Hetts SW: Pharyngo-tympano-stapedial middle meningeal artery variant supply to a falcotentorial dural arteriovenous fistula. J Neurointerv Surg (2022) (PMID 35545428)
  35. Osorio RC, **Raygor KP**, Abula AA: Development of a customised programme to standardise comorbidity diagnosis codes in a large-scale database. BMJ Health Care Inform (2022) (PMID 35477690)
  36. **Raygor KP**, Phelps RRL, Rutledge C, Raper DMS, Molinaro A, Fox CK, Gupta N, Abula AA: Socioeconomic factors associated with pediatric moyamoya disease hospitalizations: A nationwide cross-sectional study. J Neurosurg Pediatr (2022) (PMID 35334457)
  37. Winkler EA, Kim CN, Ross JM, Garcia JH, Gil E, Oh I, Chen LQ, Wu D, Catapano JS, **Raygor K**, Narsinh K, Kim H, Weinsheimer S, Cooke DL, Walcott BP, Lawton MT, Gupta N, Zlokovic BV, Chang EF, Abula AA, Lim DA, Nowakowski TJ: A single-cell atlas of the normal and malformed human brain vasculature. Science (2022) (PMID 35084939)
  38. Rutledge C, Tonetti DA, **Raygor KP**, Abula AA: How I do it: horizontal fissure approach to the middle cerebellar peduncle. Acta Neurochir (Wien) (2022) (PMID 34643805)
  39. Phelps RRL, **Raygor KP**, Amans MR, Gupta N, Abula AA: Occult arteriovenous malformation superimposed on pial arteriovenous fistula: Case report. Pediatr Neurosurg (2021) (PMID 34433175)
  40. Morshed RA, Haddad AF, **Raygor KP**, Xu MJ, Limb CJ, Theodosopoulos PV: Microsurgical resection of an intravestibular schwannoma: a review of surgical technique and management considerations. Neurosurg Focus Video (2021) (PMID 36285245)
  41. Srinivasan VM, Tarapore PE, Koester SW, Catapano JS, Rutledge C, **Raygor KP**, Lawton MT: Arteriovenous malformations in the optic apparatus: systematic literature review and report of four cases. J Neurosurg (2021) (PMID 34388718)
  42. Catapano JS, Rutledge C, Rumalla K, **Raygor KP**, Srinivasan VM, Koester SW, Kimata AR, Ma KL, Labib MA, Spetzler RF, Lawton MT: External validation of the Lawton brainstem cavernous malformation grading system in a cohort of 277 microsurgical patients. J Neurosurg (2021) (PMID 34598133)
  43. Rutledge C, Raper DMS, **Raygor KP**, Budohoski KP, Abula AA: Limited intradural anterior petrosectomy for upper basilar aneurysms: A technical note. World Neurosurg (2021) (PMID 33640529)
  44. Winkler EA, Lee A, Yue JK, **Raygor KP**, Rutledge WC, Rubio RR, Josephson SA, Berger MS, Raper DMS, Abula AA: Endovascular embolization versus surgical clipping in a single surgeon series of basilar artery aneurysms: a complementary approach in the endovascular era. Acta Neurochir (Wien) (2021) (PMID 33694012)

# Kunal Prakash Raygor

45. Raper DMS, **Raygor KP**, Rutledge C, Dubnicoff T, Abula AA: Suboccipital craniectomy with bilateral cerebellomedullary fissure dissection for resection of a ruptured tonsillar/vermian AVM occupying the roof of the fourth ventricle in a pregnant patient. Neurosurg Focus Video (2021)
46. Rutledge C, Raper DMS, Jonzson S, **Raygor KP**, Pereira MP, Winkler EA, Zhang L, Lawton MT, Abula AA: Sensitivity of the Unruptured Intracranial Aneurysm Treatment Score (UIATS) in the elderly: Retrospective analysis of ruptured aneurysms. World Neurosurg (2021) (PMID 34129975)
47. Phelps RRL, Lu AY, Lee AT, Yue JK, Winkler EA, **Raygor KP**, Oh T, Barkovich MJ, Hollander H (2020): Cerebrovascular complications of coccidiomycosis meningitis: Case report and systematic review. J Clin Neurosci (2020) (PMID 33099362)
48. **Raygor KP**, Lee AT, Nichols N, Wang DD, Ward MM, Barbaro NM, Chang EF (2020): Long-term pain outcomes in elderly patients with trigeminal neuralgia: comparison of first-time microvascular decompression and stereotactic radiosurgery. Neurosurg Focus (2020) (PMID 33002871)
49. Lee AT, **Raygor KP**, Elefant F, Ward MM, Wang DD, Barbaro NM, Chang EF (2020): Comparison of stereotactic radiosurgery and radiofrequency ablation for trigeminal neuralgia in multiple sclerosis patients. Stereotact Funct Neurosurg (2020) (PMID 32882698)
50. Wang M, Chae R, Shehata J, Vigo V, **Raygor KP**, Tomasi SO, McDermott MW, Abula AA, El-Sayed IH, Rodriguez Rubio R: Comparative analysis of surgical exposure and freedom between the subtonsillar, endoscope-assisted subtonsillar, and far-lateral approaches to the lower clivus: A cadaveric study. J Clin Neurosci (2020) (PMID 31937496)
51. **Raygor KP**, Oh T, Hwang JY, Phelps RRL, Ghousaini K, Wong P, Silvers R, Ostling LR, Sun PP: Ventriculoperitoneal shunt infection rates using a standard surgical technique including intraventricular vancomycin: The Children's Hospital Oakland experience. J Neurosurg Pediatr (2020) (PMID 32707540)
52. **Raygor KP**, Theodosopoulos PV: Use of the Neurological Pupil Index to Predict Postoperative Visual Function After Resection of a Tuberculum Sellae Meningioma: A Case Report. Cureus (2019) (PMID 31807386)
53. **Raygor KP**, Winkler EA, Rutledge WC, Rubio RR, Abula AA: Commentary: Post-treatment antiplatelet therapy reduces risk for delayed cerebral ischemia due to aneurysmal subarachnoid hemorrhage. Neurosurgery (2019) (PMID 30957176)
54. Winkler EA, **Raygor K**, Caleb Rutledge W, Lu AP, Phelps RRL, Lien BV, Rubio RR, Abula AA: Local in situ fibrinolysis for recanalization of an occluded extracranial-intracranial bypass: Technical note. J Clin Neurosci (2019) (PMID 30885594)
55. Dones F, Kournoutas I, Vigo V, Di Bonaventura R, **Raygor K**, El-Sayed IH, Abula AA, Rubio RR: A combined extradural-intradural technique for an en-bloc anterior petrosectomy: A cadaveric feasibility study. World Neurosurg (2019) (PMID 30639606)
56. Winkler EA, Yue JK, Deng H, **Raygor KP**, Phelps RRL, Rutledge C, Lu AY, Rodriguez Rubio R, Burkhardt JK, Abula AA: National trends in cerebral bypass surgery in the United States, 2002-2014. Neurosurg Focus 46 (2019) (PMID 30717065)
57. Winkler EA, Lu AY, **Raygor KP**, Linzey JR, Jonzson S, Lien BV, Rutledge WC, Abula AA: Defective vascular signaling & prospective therapeutic targets in brain arteriovenous malformations. Neurochem Intl (2019) (PMID 30858016)
58. **Raygor KP**, Wang DD, Ward MM, Barbaro NM, Chang EF: Long-term pain outcomes for recurrent idiopathic trigeminal neuralgia after stereotactic radiosurgery: a prospective comparison of first-time microvascular decompression and repeat stereotactic radiosurgery. J Neurosurg (2018) (PMID 30485183)

# Kunal Prakash Raygor

59. Winkler EA, Burkhardt JK, Rutledge WC, Rick JW, Partow CP, Yue JK, Birk H, Bach AM, **Raygor KP**, Lawton MT: Reduction of shunt dependency rates following aneurysmal subarachnoid hemorrhage by tandem fenestration of the lamina terminalis and membrane of Lillequist during microsurgical aneurysm repair. J Neurosurg (2018) (PMID 29243978)
60. Hafez A\*, **Raygor KP\***, Lawton MT: Contralateral anterior interhemispheric approach to medial frontal arteriovenous malformations: Surgical technique and results. Oper Neurosurg (Hagerstown) (2017) (PMID 28838107)
61. Wang DD\*, **Raygor KP\***, Cage TA, Ward MM, Westcott S, Barbaro NM, Chang EF: Prospective comparison of long-term pain relief rates after first-time microvascular decompression and stereotactic radiosurgery for idiopathic trigeminal neuralgia. J Neurosurg (2017) (PMID 28298026)
62. Chang EF, Breshears JD, **Raygor KP**, Lau D, Molinaro AM, Berger MS: Stereotactic probability and variability of speech arrest and anomia sites during stimulation mapping of the language dominant hemisphere. J Neurosurg (2017) (PMID 26894457)
63. **Raygor KP**, Mooney MA, Snyder LA, Levitt MR, Albuquerque FC, Spetzler RF: Pseudoaneurysm of distal anterior cerebral artery branch following external ventricular drain placement. Neurosurgery (2016) (PMID 29506250)
64. **Raygor KP**, Than KD, Chou D, Mummaneni PV: Comparison of minimally invasive transspinous and open approaches for thoracolumbar intradural-extramedullary spinal tumors. Neurosurg Focus (2015) (PMID 26235010)
65. Englot DJ, Nagarajan SS, Imber BS, **Raygor KP**, Honma SM, Mizuiri D, Mantle M, Knowlton RC, Kirsch HE, Chang EF: Epileptogenic zone localization using magnetoencephalography predicts seizure freedom in epilepsy surgery, Epilepsia (2015) (PMID 25921215)
66. Chang EF, **Raygor KP**, Berger MS: Contemporary model of language organization: An overview for neurosurgeons, J Neurosurg (2015) (PMID 25423277)
67. Englot DJ, **Raygor KP**, Molinaro AM, Garcia PA, Knowlton RC, Auguste KI, Chang EF: Factors associated with failed focal neocortical epilepsy surgery, Neurosurgery (2014) (PMID 25181435)
68. **Raygor KP**, Rowland NC, Cooke DL, Soloman DA, Huang MC: Aneurysm of the posterior meningeal artery embedded within a dorsal exophytic medullary hemangioblastoma: surgical management and review of literature, J Cerebrovasc Endovasc Neurosurg (2014) (PMID 25340034)
69. Li A, Zhou C, Moore J, Zhang P, Tsai TH, Lee HC, Romano DM, McKee ML, Schoenfeld DA, Serra MJ, **Raygor K**, Cantiello HF, Fujimoto JG, Tanzi RE: Changes in the expression of the Alzheimer's disease-associated presenilin gene in drosophila heart leads to cardiac dysfunction, Curr Alzheimer Res (2011) (PMID 25181435)
70. Gianni D, Li A, Tesco G, McKay KM, Moore J, **Raygor K**, Rota M, Gwathmey JK, Dec GW, Aretz T, Leri A, Semigran MJ, Anversa P, Macgillivray TE, Tanzi RE, del Monte F: Protein aggregates and novel presenilin gene variants in idiopathic dilated cardiomyopathy, Circulation (2010) (PMID 20194882)

# Kunal Prakash Raygor

## Book Chapters

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**Raygor KP**, Lee A, Chang EF (2019): Treatment of idiopathic trigeminal neuralgia in the elderly, in Sagher, Levin, Pilitsis (ed): **Pain Neurosurgery**. Oxford University Press, pp. 9-12.

## Research Posters and Oral Presentations

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**Raygor KP**, Ablu AA: Socioeconomic factors associated with pediatric moyamoya disease hospitalizations: A nationwide cross-sectional study

- Oral presentation given at AANS Annual Meeting, Robert Florin, MD Resident Award (May, 2021)

**Raygor KP**, Sun PP: Ventriculoperitoneal shunt infection rates using a standard surgical technique including intraventricular vancomycin, The Benioff Children's Hospital Oakland Experience

- Oral presentation given at ISPN Annual Meeting (Oct, 2018)

**Raygor KP**, Ward MM, Barbaro NM, Chang EF: Long-term pain relief rates after failed stereotactic radiosurgery for idiopathic trigeminal neuralgia: A prospective comparison of first-time microvascular decompression and repeat stereotactic radiosurgery

- Oral presentation given at AANS Annual Meeting, Walter H. Sweet Young Investigator Award (May, 2018)

**Raygor KP**, Rowland NC, Auguste KI, Sun PP: Effect of prophylactic intraventricular vancomycin administration on pediatric ventriculoperitoneal shunt infection rate

- Digital poster at AANS Annual Meeting (May, 2018)

**Raygor KP**, Than KD, Chou D, Mummaneni PV: Comparison of minimally invasive transspinous and open approaches for thoracolumbar intradural-extramedullary spinal tumors

- Oral presentation given at Society for Minimally Invasive Spine Surgery Annual Meeting (Nov., 2015)

Englot DJ, **Raygor KP**, Garcia PA, Knowlton RC, Auguste KI, Chang EF: Factors associated with failed focal neocortical epilepsy surgery

- Abstract accepted for poster presentation at American Epilepsy Society Meeting (Dec., 2014)

**Raygor KP**, Chang EF, Breshears JD, Berger MS: Probability and variability of speech arrest sites during stimulation mapping of the dominant hemisphere

- Abstract accepted for Neurosurgical Forum discussion at Congress of Neurological Surgeons Meeting (Oct., 2014)

**Raygor KP**: Mapping of speech sounds in the human brain

- Oral presentation given at the ACTS Conference (April, 2014)

**Raygor KP**, Chang EF: Mapping of perceptual categories in the brain: Encoding of voice onset time in human superior temporal gyrus

- Abstract accepted for poster presentation at the Association for Clinical and Translational Science Conference (April, 2014)

## Professional Organization Membership

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Congress of Neurological Surgeons, Member

Society of Neurointerventional Surgery, Member

American Academy of Neurological Surgeons, Member

Joint AANS/CNS Cerebrovascular Section, Member

# Kunal Prakash Raygor

North American Vascular Biology Organization, Member  
California Association of Neurological Surgeons, Member

## Quality Improvement Experience

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2023-2024	Member of working group aimed at improving time to thrombectomy at regional stroke center
2020	Developed a patient handout to improve neurosurgical patient experience within the hospital setting
2020	Working group member for stroke care improvements recommended by Joint Commission
2019-2020	Neurology/Neurosurgery Acute and Transitional Care Unit-Based Leadership Team

## Teaching Experience

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2019	UCSF Brain Camp Instructor <ul style="list-style-type: none"><li>• Taught a brief course on Advances in Neurosurgery to medical students and college students interested in neurosciences</li></ul>
2011-2012	UCSF Medical Scholars Program Teacher <ul style="list-style-type: none"><li>• Developed lesson plans and taught a variety of topics (anatomy, physiology, and biochemistry) to first year medical students at UCSF</li></ul>