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CONTACT INFORMATION

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SPECIALITY

- Epilepsy
- Clinical Neurophysiology
- Seizure Disorders

CERTIFICATION

- American Board of Psychiatry and Neurology, Neurology

EDUCATION

- M.D., All India Institute of Medical Sciences, New Delhi, India
- M.B.B.S., Government Medical College, Kottayam, India
- Residency, Neurology, Temple University Hospital, Philadelphia, Penn.
- Residency, Internal Medicine, Temple University Hospital, Philadelphia, Penn.
- Fellowship, Epilepsy and Intraoperative Monitoring, University of California, Los Angeles, Geffen School of Medicine, Los Angeles, Calif.

CLINIC APPOINTMENTS

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JOURNAL PUBLICATIONS

1. Brown BM, Boyne AMH, Hassan AM, Allam AK, Cotton RJ, Haneef Z. Computer vision for automated seizure detection and classification: A systematic review. *Epilepsia*. 2024;: PMID: 38426252.
2. Ferreira LD, Tabaeizadeh M, Haneef Z. Surgical outcomes in post-traumatic temporal lobe epilepsy: A systematic review and meta-analysis. *J Neurotrauma*. 2024;41(3-4):319-30. PMID: 37658840.

3. Haneef Z, Patel K, Nguyen A, Kayal G, Martini SR, Sullivan-Baca E. Epilepsy surgery perceptions among general neurologists and epilepsy specialists: A survey. *Clin Neurol Neurosurg.* 2024;237:108151. PMID: 38340429.
4. Haneef Z, Skrehot HC. Response: Assumptions and statistical inference. *Epilepsia.* 2024;65(1):244-6. PMID: 37943158.
5. Josephs T, Ballou E, Haneef Z, Asghar-Ali AA. Todd paralysis after electroconvulsive therapy - Letter to the editor. *J ECT.* 2024;40(1):63-4. PMID: 37903016.
6. Sullivan-Baca E, Rehman R, Lorkiewicz SA, Van Cott AC, Haneef Z. Psychiatric comorbidities in women veterans with epilepsy. *J Womens Health (Larchmt).* 2024;33(3):301-7. PMID: 38165659.
7. Wessel CR, Karakas C, Haneef Z, Mutchnick I. Vagus nerve stimulation and heart rate variability: A scoping review of a somatic oscillatory signal. *Clin Neurophysiol.* 2024;160:95-107. PMID: 38412747.
8. Haneef Z, Skrehot HC. Neurostimulation in generalized epilepsy: A systematic review and meta-analysis. *Epilepsia.* 2023;64(4):811-20. PMID: 36727550.
9. Karakas C, Ferreira LD, Haneef Z. Use of video alone for differentiation of epileptic seizures from non-epileptic spells: A systematic review and meta-analysis. *Seizure.* 2023;110:177-87. PMID: 37406461.
10. Karakas C, Houck K, Handoko M, Trandafir C, Coorg R, Haneef Z, et al. Responsive neurostimulation for the treatment of children with drug-resistant epilepsy in tuberous sclerosis complex. *Pediatr Neurol.* 2023;145:97-101. PMID: 37302216.
11. Lorkiewicz SA, Modiano YA, Miller BI, Van Cott AC, Haneef Z, Sullivan-Baca E. The neuropsychological presentation of women with epilepsy: Clinical considerations and future directions. *Clin Neuropsychol.* 2023;;1-27. PMID: 37993977.
12. Nakhleh L, Gavvala JR, Haneef Z. Survey of clinical neurophysiology and epilepsy fellowship programs in the United States during COVID-19. *J Clin Neurophysiol.* 2023;40(4):310-6. PMID: 34347670.
13. Skrehot HC, Englot DJ, Haneef Z. Neuro-stimulation in focal epilepsy: A systematic review and meta-analysis. *Epilepsy Behav.* 2023;142:109182. PMID: 36972642.
14. Sullivan-Baca E, Lorkiewicz SA, Rehman R, Van Cott AC, Towne AR, Haneef Z. Utilization of epilepsy care among women veterans: A population-based study. *Epilepsy Res.* 2023;192:107130. PMID: 37004372.
15. Sullivan-Baca E, Rehman R, Haneef Z. An update on the healthy soldier effect in U.S. veterans. *Mil Med.* 2023;188(9-10):3199-204. PMID: 35652579.
16. Sullivan-Baca E, Rehman R, Towne AR, Haneef Z. Psychiatric co-morbidity of drug-resistant epilepsy in Veterans. *Epilepsy Behav.* 2023;139:109059. PMID: 36577335.
17. Ward R, Vallera AC, Ali I, Karakas C, Haneef Z. Seizure control during spontaneous battery failure with responsive neurostimulation. *Epileptic Disord.* 2023;25(2):237-43. PMID: 37002552.
18. Burr T, Modiano Y, Raichur P, Barton C, Sah J, Farber D, et al. Predictive value of video alone in diagnosis of epileptic vs paroxysmal nonepileptic events in children. *Epilepsy Behav.* 2022;134:108863. PMID: 35930919.
19. EPMoghaddam D, Sheth S, Haneef Z, Gavvala J, Aazhang B. Epileptic seizure prediction using spectral width of the covariance matrix. *J Neural Eng.* 2022;19(2):. PMID: 35320787.
20. Haneef Z, Gavvala JR, Combs HL, Han A, Ali I, Sheth SA, et al. Brain stimulation using responsive neurostimulation improves verbal memory: A crossover case-control study. *Neurosurgery.* 2022;90(3):306-12. PMID: 35045053.
21. Haneef Z, Rehman R, Husain AM. Association between standardized mortality ratio and utilization of care in U.S. veterans with drug-resistant epilepsy compared with all U.S. veterans and the U.S. general population. *JAMA Neurol.* 2022;79(9):879-87. PMID: 35969384.
22. Haneef Z, Yang K, Sheth SA, Aloor FZ, Aazhang B, Krishnan V, et al. Sub-scalp electroencephalography: A next-generation technique to study human neurophysiology. *Clin Neurophysiol.* 2022;141:77-87. PMID: 35907381.
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26. Sullivan-Baca E, Weitzner DS, Choudhury TK, Fadipe M, Miller BI, Haneef Z. Characterizing differences in psychiatric profiles between male and female veterans with epilepsy and psychogenic non-epileptic seizures. *Epilepsy Res.* 2022;186:106995. PMID: 36030730.
27. Wang ET, Chiang S, Cleboski S, Rao VR, Vannucci M, Haneef Z. Seizure count forecasting to aid diagnostic testing in epilepsy. *Epilepsia.* 2022;63(12):3156-67. PMID: 36149301.
28. Wang ET, Vannucci M, Haneef Z, Moss R, Rao VR, Chiang S. A Bayesian switching linear dynamical system for

- estimating seizure chronotypes. *Proc Natl Acad Sci U S A.* 2022;119(46):e2200822119. PMID: 36343269.
- 29. Haneef Z, Karimov A, Krishnan V, Sheth SA. Trigeminal paresthesia secondary to responsive neurostimulation (RNS) lead migration. *Surg Neurol Int.* 2021;12:577. PMID: 34877063.
 - 30. Karakas C, Modiano Y, Van Ness PC, Gavvala JR, Pacheco V, Fadipe M, et al. Home video prediction of epileptic vs. nonepileptic seizures in US veterans. *Epilepsy Behav.* 2021;117:107811. PMID: 33611097.
 - 31. McDermott DS, Mirro EA, Fetrow K, Burdette DE, Chen S, Hopp J, et al. Brain-responsive neurostimulation for the treatment of adults with epilepsy in tuberous sclerosis complex: A case series. *Epilepsia Open.* 2021;6(2):419-24. DOI: 10.1002/epi4.12481.
 - 32. Modiano YA, Karakas C, Haneef Z. Social determinants do not affect access to specialized epilepsy care in veterans. *Epilepsy Behav.* 2021;121(Pt A):108071. PMID: 34052631.
 - 33. Modiano YA, Webber T, Cerbone B, Haneef Z, Pastorek NJ. Predictive utility of the Minnesota Multiphasic Personality Inventory-2-RF (MMPI-2-RF) in differentiating psychogenic nonepileptic seizures and epileptic seizures in male veterans. *Epilepsy Behav.* 2021;116:107731. PMID: 33517198.
 - 34. Antony AR, Haneef Z. Systematic review of EEG findings in 617 patients diagnosed with COVID-19. *Seizure.* 2020;83:234-41. PMID: 33121875.
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 - 39. Montier L, Haneef Z, Gavvala J, Yoshor D, North R, Verla T, et al. A somatic mutation in MEN1 gene detected in periventricular nodular heterotopia tissue obtained from depth electrodes. *Epilepsia.* 2019;60(10):e104-e109. PMID: 31489630.
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 - 41. Chiang S, Guindani M, Yeh HJ, Dewar S, Haneef Z, Stern JM, et al. A Hierarchical Bayesian Model for the Identification of PET Markers Associated to the Prediction of Surgical Outcome after Anterior Temporal Lobe Resection. *Front Neurosci.* 2017;11:669. PMID: 29259537.
 - 42. Chiang S, Guindani M, Yeh HJ, Haneef Z, Stern JM, Vannucci M. Bayesian vector autoregressive model for multi-subject effective connectivity inference using multi-modal neuroimaging data. *Hum Brain Mapp.* 2017;38(3):1311-32. PMID: 27862625.
 - 43. Chiang S, Haneef Z, Stern JM, Engel J. Use of resting-state fMRI in planning epilepsy surgery. *Neurology India.* 2017;65(Supplement):S25-S33. PMID: 28281493.
 - 44. Haneef Z, Chiang S, Rutherford HC, Antony AR. A survey of neurophysiology fellows in the United States. *J Clin Neurophysiol.* 2017;34(2):179-86. PMID: 27749505.
 - 45. Chiang S, Cassese A, Guindani M, Vannucci M, Yeh HJ, Haneef Z, et al. Time-dependence of graph theory metrics in functional connectivity analysis. *Neuroimage.* 2016;125:601-15. PMID: 26518632.
 - 46. Chiang S, Levin HS, Wilde E, Haneef Z. White matter structural connectivity changes correlate with epilepsy duration in temporal lobe epilepsy. *Epilepsy Res.* 2016;120:37-46. PMID: 26709881.
 - 47. Moseley BD, Dewar S, Haneef Z, Eliashiv D, Stern JM. Reasons for prolonged length of stay in the epilepsy monitoring unit. *Epilepsy Res.* 2016;127:175-8. PMID: 27608436.
 - 48. Qaraqe M, Ismail M, Serpedin E, Haneef Z. Epileptic seizure onset detection based on EEG and ECG data fusion. *Epilepsy Behav.* 2016;58:48-60. PMID: 27057745.
 - 49. Chiang S, Levin HS, Haneef Z. Computer-automated focus lateralization of temporal lobe epilepsy using fMRI. *J Magn Reson Imaging.* 2015;41(6):1689-94. PMID: 25044773.
 - 50. Chiang S, Stern JM, Engel J, Jr, Haneef Z. Structural-functional coupling changes in temporal lobe epilepsy. *Brain Res.* 2015;1616:45-57. PMID: 25960346.
 - 51. Haneef Z, Chiang S, Yeh HJ, Engel J, Jr, Stern JM. Functional connectivity homogeneity correlates with duration of temporal lobe epilepsy. *Epilepsy Behav.* 2015;46:227-33. PMID: 25873437.
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 - 53. Moseley BD, Dewar S, Haneef Z, Stern JM. How long is long enough? The utility of prolonged inpatient video EEG monitoring. *Epilepsy Res.* 2015;109:9-12. PMID: 25524837.
 - 54. Robles L, Chiang S, Haneef Z. Review-of-systems questionnaire as a predictive tool for psychogenic

- nonepileptic seizures. *Epilepsy Behav.* 2015;45:151-4. PMID: 25812935.
55. Chiang S, Haneef Z. Graph theory findings in the pathophysiology of temporal lobe epilepsy. *Clin Neurophysiol.* 2014;125(7):1295-305. PMID: 24831083.
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57. Haneef Z, Chen DK. Functional neuro-imaging as a pre-surgical tool in epilepsy. *Ann Indian Acad Neurol.* 2014;17(Suppl 1):S56-64. PMID: 24791091.
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59. Haneef Z, Lenartowicz A, Yeh HJ, Engel J, Jr, Stern JM. Network analysis of the default mode network using functional connectivity MRI in Temporal Lobe Epilepsy. *J Vis Exp.* 2014;(90):e51442. PMID: 25146174.
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61. Kharkar S, Pillai J, Rocheat D, Haneef Z. Socio-demographic influences on epilepsy outcomes in an inner-city population. *Seizure.* 2014;23(4):290-4. PMID: 24485774.
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63. Haneef Z, Levin HS, Frost JD, Jr, Mizrahi EM. Electroencephalography and quantitative electroencephalography in mild traumatic brain injury. *J Neurotrauma.* 2013;30(8):653-6. PMID: 23249295.
64. Caporaso M, Haneef Z, Yeh HJ, Lenartowicz A, Buttinielli C, Parvizi J, et al. Functional MRI of sleep spindles and K-complexes. *Clin Neurophysiol.* 2012;123(2):303-9. PMID: 21775199.
65. Haneef Z, Lenartowicz A, Yeh HJ, Engel J, Jr, Stern JM. Effect of lateralized temporal lobe epilepsy on the default mode network. *Epilepsy Behav.* 2012;25(3):350-7. PMID: 23103309.
66. Suthana N, Haneef Z, Stern J, Mukamel R, Behnke E, Knowlton B, et al. Memory enhancement and deep-brain stimulation of the entorhinal area. *N Engl J Med.* 2012;366(6):502-10. PMID: 22316444.
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69. Haneef Z, Grant ML, Valencia I, Hobdell EF, Kothare SV, Legido A, et al. Correlation between child and parental perceptions of health-related quality of life in epilepsy using the PedsQL.v4.0 measurement model. *Epileptic Disord.* 2010;12(4):275-82. PMID: 21081305.
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71. Franco MJ, Vendrame M, Haneef Z, Azizi SA. Teaching NeuroImage: Acute spastic monoplegia secondary to spinal epidural venous engorgement in pregnancy. *Neurology.* 2008;71(1):e1. PMID: 18591496.
72. Haneef Z, Khurana DS, Melvin JJ, Carvalho KS, Legido A, Valencia I. Ocular compression pressure during EEG for the study of increased vagal reactivity. *Epileptic Disord.* 2008;10(2):147-50. PMID: 18539566.
73. Elliott JO, Jacobson MP, Haneef Z. Cardiovascular risk factors and homocysteine in epilepsy. *Epilepsy Res.* 2007;76(2-3):113-23. PMID: 17714918.
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75. Haneef Z, Jacobson M. Two randomized vitamin D trials in ambulatory patients on anticonvulsants: Impact on bone. *Neurology.* 2007;68(22):1958-9; author reply 1959. PMID: 17536060.
76. Sood R, Haneef Z, Ray R, Handa R, Wali JP. Giant cell arteritis--a rare cause of fever of unknown origin in India. *J Assoc Physicians India.* 2002;50:846-8. PMID: 12240861.

BOOKS and VOLUMES

1. Haneef Z, editor. A concise manual of epilepsy. 3rd ed. CreateSpace Publishing; 2017. p. 188.
2. Haneef Z, Maheshwari A, editors. A concise manual of epilepsy. 2nd ed. CreateSpace Independent Publishing Platform; 2016. p. 182.
3. Haneef Z, Maheshwari A, editors. A concise manual of epilepsy. CreateSpace Independent Publishing Platform; 2014. p. 128.

BOOK CHAPTERS and OTHER PUBLICATIONS

1. Haneef Z, Chen D. Neuroimaging. In: Haneef Z, Maheshwari A, editors. A concise manual of epilepsy. 2nd ed. CreateSpace Publishing; 2016. p. 81-92.

2. Haneef Z, Englot DJ. Surgical management. In: Haneef Z, Maheshwari A, editors. A concise manual of epilepsy. 2nd ed. CreateSpace Publishing; 2016. p. 128-135.
3. Haneef Z, Hrachovy RA. Epileptiform abnormalities. In: Haneef Z, editor. A concise manual of epilepsy. 3rd ed. CreateSpace Publishing; 2016. p. 60-65.
4. Haneef Z, Hrachovy RA. Epileptiform abnormalities. In: Haneef Z, Maheshwari A, editors. A concise manual of epilepsy. 2nd ed. CreateSpace Publishing; 2016. p. 56-61.
5. Haneef Z, Maheshwari A. Semiology. In: Haneef Z, Maheshwari A, editors. A concise manual of epilepsy. 2nd ed. CreateSpace Publishing; 2016. p. 76-80.
6. Haneef Z, Matsumoto J. Seizures and epilepsy syndromes. In: Haneef Z, editor. A concise manual of epilepsy. 3rd ed. CreateSpace Publishing; 2016. p. 18-39.
7. Haneef Z, Matsumoto J. Seizures and epilepsy syndromes. In: Haneef Z, Maheshwari A, editors. A concise manual of epilepsy. 2nd ed. CreateSpace Publishing; 2016. p. 6-33.
8. Haneef Z, Tirol F. Surgical evaluation. In: Haneef Z, Maheshwari A, editors. A concise manual of epilepsy. 2nd ed. CreateSpace Publishing; 2016. p. 119-127.
9. Haneef Z. Non-epileptiform EEG abnormalities. In: Haneef Z, editor. A concise manual of epilepsy. 3rd ed. CreateSpace Publishing; 2016. p. 50-59.
10. Haneef Z. Non-epileptiform EEG abnormalities. In: Haneef Z, Maheshwari A, editors. A concise manual of epilepsy. 2nd ed. CreateSpace Publishing; 2016. p. 44-55.
11. Maheshwari A, Haneef Z. Normal EEG. In: Haneef Z, editor. A concise manual of epilepsy. 3rd ed. CreateSpace Publishing; 2016. p. 40-49.
12. Maheshwari A, Haneef Z. Normal EEG. In: Haneef Z, Maheshwari A, editors. A concise manual of epilepsy. 2nd ed. CreateSpace Publishing; 2016. p. 34-43.
13. Maheshwari A, Haneef Z. Seizures and epilepsy. In: Kass JS, Mizrahi EM, editors. Neurology secrets. 6th ed. Philadelphia: Elsevier; 2016. p. 301-321.

POSTER and PLATFORM PRESENTATIONS

1. Hafeez MU, Hafeez K, Talanki Manjunatha R, Ali I, Curry D, Gavvala J, et al. Outcomes of centromedian thalamic responsive neurostimulation in adults and children with generalized onset seizures: A multicenter cohort study. Abstract No 2.073, 2023, American Epilepsy Society Annual Meeting, www.aesnet.org.
2. Oliveira K, Kayal G, Haneef Z. State-of-the-art of continuous EEG monitoring in the United States. Abstract No 2.018, 2023, American Epilepsy Society Annual Meeting, www.aesnet.org.
3. Reyes G, Ferreria L, Haneef Z, Hassan A, Myers J, Sheth S. Hippocampal oscillations are biomarkers for seizure severity during responsive neurostimulation. Abstract No 3.083, 2023, American Epilepsy Society Annual Meeting, www.aesnet.org.
4. Tantillo G, Haneef Z, Lopez M, Rehman R, Sullivan-Baca E. Characterizing Hispanic veterans with epilepsy: A national population-based study. Abstract No 2.367, 2023, American Epilepsy Society Annual Meeting, www.aesnet.org.
5. Ufomadu P, Alam M, Haneef Z, Stinson J. Impact of brain stimulation on verbal memory in RNS patients. Abstract No 2.075, 2023, American Epilepsy Society Annual Meeting, www.aesnet.org.
6. Vedantam S, Haneef Z, Cleboski S, Gavvala J. Characterizing seizure onset patterns with the Responsive Neurostimulation System. Abstract No 1.153, 2023, American Epilepsy Society Annual Meeting, www.aesnet.org.
7. Chiang S, Wang E, Vannucci M, Haneef Z, Moss R, Rao V. A Bayesian switching linear dynamical system for modeling seizure cycles. Abstract No 2.148, 2022, American Epilepsy Society Annual Meeting, www.aesnet.org.
8. Haneef Z, Ferreira L, Tabaeizadeh Fesharaki M. Surgical outcomes in post-traumatic epilepsy: A metanalysis. Abstract No 3.436, 2022, American Epilepsy Society Annual Meeting, www.aesnet.org.
9. Kellogg M, Smith C, Pugh MJ, Haneef Z, Rehman R, Jones J, et al. The VA EEG Utilization Project: A national VA operations and quality improvement initiative. Abstract No 1.392, 2022, American Epilepsy Society Annual Meeting, www.aesnet.org.
10. Raichur P, Burr T, Modiano Y, Barton C, Sah J, Farber D, et al. Diagnostic utility of video alone in differentiation of epileptic seizures from paroxysmal non-epileptic events in children. Abstract No 2.109, 2022, American Epilepsy Society Annual Meeting, www.aesnet.org.
11. Skrehot H, Englot D, Haneef Z. Responsive neurostimulation vs. vagus nerve stimulation in epilepsy. Neurology. 2022;98(18 suppl):3562.
12. Vallera A, Ward R, Karakas C, Skrehot H, Cleboski S, Haneef Z. Investigation of neuroplasticity with the responsive neurostimulation (RNS) system during battery failure. Neurology. 2022;98(18 suppl):3874.
13. Ward R, Karakas C, Skrehot H, Vallera A, Cleboski S, Haneef Z. Seizure control during COVID-19: A study using the responsive neurostimulation system (RNS). Neurology. 2022;98(18 suppl):3063.
14. Haneef Z, Rehman R, Husain A. Mortality and access to comprehensive epilepsy care among U.S. veterans.

- Abstract No 2.329, 2021, American Epilepsy Society Annual Meeting, www.aesnet.org.
- 15. Karakas C, Ward R, Cleboski S, Haneef Z. COVID-19 and epilepsy: Data from Responsive Neurostimulation System (RNS). Abstract No 2.117, 2021, American Epilepsy Society Annual Meeting, www.aesnet.org.
 - 16. Modiano Y, Karakas C, Haneef Z. Psychiatric and military history do not differentiate psychogenic non-epileptic seizures and epileptic seizures among veterans. Presented at the American Academy of Clinical Neuropsychology (AACN), Virtual 19th Annual Meeting (June 9-12, 2021).
 - 17. Han A, Nakhleh L, Fussner S, Haneef Z. Machine learning algorithm for differentiating epileptic and non-epileptic seizures. Presented at the Baylor College of Medicine (BCM), Henry J.N. Taub and James K. Alexander Medical Student Research Symposium in Houston, Texas (March 25, 2021).
 - 18. Nakhleh L, Gavvala J, Haneef Z. COVID-19 survey of clinical neurophysiology/epilepsy program directors and fellow trainees in the United States. Presented at the Baylor College of Medicine (BCM), Henry J.N. Taub and James K. Alexander Medical Student Research Symposium in Houston, Texas (March 25, 2021).
 - 19. Karimov A, Gavvala J, Goldman A, Haneef Z, Maheshwari A, Sheth S, et al. The utility of additional depth or subdural electrodes following stereotactic EEG evaluation. Presented at the American Clinical Neurophysiology Society (ACNS), Virtual 2021 Annual Meeting (Feb. 10-14, 2021).
 - 20. Modiano YA, Webber T, Cerbone B, Haneef Z, Pastorek N. Predictive utility of MMPI-2-RF in differentiating psychogenic non-epileptic events and epilepsy in a largely male veteran sample. Presented at the International Neuropsychological Society (INS), Virtual 49th Annual Meeting (Feb. 2-5, 2021).
 - 21. Fussner S, Nakhleh L, Haneef Z. Machine learning can model visual EEG analysis for epileptic and non-epileptic seizure classification. Presented at the American Epilepsy Society (AES), 74th Annual Meeting in Seattle, Wash. (Dec. 4-8, 2020).
 - 22. Modiano Y, Webber T, Cerbone B, Haneef Z, Pastorek NJ. Predictive utility of MMPI-2-RF in differentiating psychogenic non-epileptic events and epilepsy in a largely male Veteran sample. Presented at the International Neuropsychological Society (INS), 48th Annual Meeting in Denver, Colo. (Feb. 5-8, 2020).
 - 23. Dunham SR, Haneef Z, Kung D. Student satisfaction and NBME outcomes with team based learning on the neurology clerkship, a pilot study. *Neurology*. 2019;92(15 Suppl):P2.9-032.
 - 24. Houck KM, Haneef Z, Nayak A, Gavvala J, Quach MM, Van Ness PC, et al. Functional involvement of periventricular nodular heterotopia. Abstract No 2.066, 2018, American Epilepsy Society Annual Meeting, www.aesnet.org.
 - 25. Chiang S, Vankov E, Yeh H, Guindani M, Vannucci M, Haneef Z, et al. Spectral analysis of dynamic functional connectivity between resting-state networks reveals information beyond static connectivity. *Neurology*. 2018;90(15 Suppl):P3.281.
 - 26. Haneef Z, Englot DJ. Responsive neuro-stimulation (RNS) versus vagus nerve stimulation (VNS) in focal epilepsy. Abstract No 1.129, 2017, American Epilepsy Society Annual Meeting, www.aesnet.org.
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