



Allen Ho

- Affiliate, Dean's Office Operations - Dean Other
- Resident in Neurosurgery

Bio

BIO

Allen was born and raised in Irvine, California. He completed his undergraduate training at University of California, San Diego as part of the combined-degree Medical Scholars Program with a major in Economics. He then left California to attend Harvard Medical School where he earned his MD in 2014. His research interests include expanding indications for deep brain stimulation and neuromodulation, technology-driven minimally-invasive approaches to cranial and spinal neurosurgery, and quality improvement initiatives within clinical neurosurgery. In the Halpern Lab, Allen is utilizing advanced functional imaging (fMRI, DTI) to study the effects of functional neurosurgery and exploring the role of neuromodulation in addiction, OCD, and obesity in both animal models and humans. He has also completed an endowed fellowship in complex spine surgery and has a clinical interest in spinal deformity surgery via both minimally invasive and open approaches.

CLINICAL FOCUS

- Residency
- Neurosurgery

HONORS AND AWARDS

- National Merit Scholar, National Merit Scholarship Program (2005-2009)
- UCSD Medical Scholar, University of California, San Diego School of Medicine (2005-2009)
- Amylin Chancellor's Research Award, University of California, San Diego (2008)
- Donald A. Strauss Public Service Scholarship, Donald A. Strauss Foundation (2008)
- Richard L. and Fern W. Erion and Laidlaw-Erion Scholarship, University of California, San Diego (2008)
- J. William Fulbright Fellowship, US Dept of State, Bureau of Educational and Cultural Affairs (2009)
- Harvard Medical School National Scholarship, Harvard Medical School (2009-2013)
- American Cancer Society (ACS) Betty Lea Stone Research Fellowship, American Cancer Society (2010)
- American Foundation for Aging Research (AFAR) Research Grant, American Foundation for Aging Research (2010)
- North American Taiwanese Medical Association (NATMA) Scholarship, North American Taiwanese Medical Association (2010)
- American Medical Association (AMA) Foundation Research Seed Grant, American Medical Association (2011)
- American Heart Association's (AHA) Scholarship in Cerebrovascular Disease and Stroke, American Heart Association (2012)
- Howard Hughes Medical Institute (HHMI) Medical Research Fellowship, Howard Hughes Medical Institute (2013)
- Hanbery Award for Best Clinical Paper, San Francisco Neurological Society (2015)
- Stanford Society of Physician Scholars Research Grant, Stanford Society of Physician Scholars (2015)
- Donald A. Quest Clinical Science Award for Best Oral Presentation, American Association of Neurological Surgeons (2016)

- NIH funded Spectrum-Stanford Health Care Innovation Challenge Grant, Stanford Center for Clinical and Translational Research and Education (2016)
- Stanford Society of Physician Scholars Research Grant, Stanford Society for Physician Scholars (2016)
- North American Neuromodulation Junior Scientist Award, North American Neuromodulation Society (2017)
- Charles Kuntz IV Scholar, AANS/CNS Section on Disorders of the Spine and Peripheral Nerve (2018)
- Stanford Society of Physician Scholars Research Grant, Stanford Society for Physician Scholars (2018)
- Top Abstract Oral Presentation Award, Spine Summit (2018)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Association of Neurological Surgeons (2009 - present)
- Member, Congress of Neurological Surgeons (2009 - present)
- Resident Lead, Advanced Practice Practitioners Hiring Committee (2015 - 2017)
- Resident Lead, Clinical Advice Service (CAS) (2015 - 2017)
- Resident Lead, Spine Enhanced Recovery After Surgery (ERAS) Committee (2015 - present)
- Member, North American Neuromodulation Society (2016 - present)
- Member, American Society Stereotactic and Functional Neurosurgery (2016 - present)
- Member, North American Spine Society (2016 - present)
- Member, American Association of Neurological Surgeons Young Neurosurgeons Committee (2016 - present)
- MD Champion, Stanford Hospital/LPCH Voalte Program (2017 - present)
- Neurosurgery Resident Safety Champion, Stanford Medicine Safety Council (2017 - present)
- Resident Lead, Stanford Global Health Neurosurgery (2017 - present)
- Resident Lead, Neurosurgery Quality Council (2017 - present)
- YNC Liaison, NeurosurgeryPAC (2017 - present)
- Member, Neurosurgery Non-Intensive CarE (NICE) Post-Operative Implementation Committee (2018 - present)
- Member, American Epilepsy Society (2018 - present)
- Resident Representative, 500P New Stanford Hospital MD Advisory Council (2018 - present)
- YNC Liaison, AANS/CNS Section on Stereotactic and Functional Surgery (2018 - present)

PROFESSIONAL EDUCATION

- Internship, Stanford University Hospital and Clinics , Combined General Surgery/Clinical Neuroscience (2015)
- M.D., Harvard Medical School , Medicine (2014)
- B.A., University of California, San Diego (UCSD) , Economics (2008)

Publications

PUBLICATIONS

- **Predictors of Cervical Vertebral and Carotid Artery Dissection during Blunt Trauma: Experience in a Level 1 Trauma Center.** *World neurosurgery*
Ho, A. L., Deb, S., Kim, L. H., Haldipur, A., Lin, S., Patel, M., Singh, H.
2020
- **Frameless Robot-Assisted Deep Brain Stimulation Surgery: An Initial Experience** *OPERATIVE NEUROSURGERY*
Ho, A. L., Pendharkar, A. V., Brewster, R., Martinez, D. L., Jaffe, R. A., Xu, L. W., Miller, K. J., Halpern, C. H.
2019; 17 (4): 424–31
- **The nucleus accumbens and alcoholism: a target for deep brain stimulation** *NEUROSURGICAL FOCUS*
Ho, A. L., Salib, A. N., Pendharkar, A., Sussman, E. S., Giardino, W. J., Halpern, C. H.

2018; 45 (2): E12

- **Improved operative efficiency using a real-time MRI-guided stereotactic platform for laser amygdalohippocampotomy** *JOURNAL OF NEUROSURGERY*
Ho, A. L., Sussman, E. S., Pendharkar, A. V., Le, S., Mantovani, A., Keebaugh, A. C., Drover, D. R., Grant, G. A., Wintermark, M., Halpern, C. H.
2018; 128 (4): 1165–72
- **Awake versus asleep deep brain stimulation for Parkinson's disease: a critical comparison and meta-analysis.** *Journal of neurology, neurosurgery, and psychiatry*
Ho, A. L., Ali, R., Connolly, I. D., Henderson, J. M., Dhall, R., Stein, S. C., Halpern, C. H.
2017
- **Oki deficiency maintains sternness of glioma stem cells in suboptimal environment by downregulating endolysosomal degradation** *NATURE GENETICS*
Shingu, T., Ho, A. L., Yuan, L., Zhou, X., Dai, C., Zheng, S., Wang, Q., Zhong, Y., Chang, Q., Horner, J. W., Liebelt, B. D., Yao, Y., Hu, et al
2017; 49 (1): 75-86
- **Stereotactic laser ablation of the splenium for intractable epilepsy.** *Epilepsy & behavior case reports*
Ho, A. L., Miller, K. J., Cartmell, S., Inoyama, K., Fisher, R. S., Halpern, C. H.
2016; 5: 23-26
- **Deep brain stimulation for obesity: rationale and approach to trial design** *NEUROSURGICAL FOCUS*
Ho, A. L., Sussman, E. S., Pendharkar, A. V., Azagury, D. E., Bohon, C., Halpern, C. H.
2015; 38 (6)
- **Predictive Modeling of Long-Term Opioid and Benzodiazepine Use after Intradural Tumor Resection.** *The spine journal : official journal of the North American Spine Society*
Jin, M. C., Ho, A. L., Feng, A. Y., Zhang, Y., Staartjes, V. E., Stienen, M. N., Han, S. S., Veeravagu, A., Ratliff, J. K., Desai, A. M.
2020
- **Predictors of 2-year reoperation in Medicare patients undergoing primary thoracolumbar deformity surgery.** *Journal of neurosurgery. Spine*
Varshneya, K., Jokhai, R. T., Fatemi, P., Stienen, M. N., Medress, Z. A., Ho, A. L., Ratliff, J. K., Veeravagu, A.
2020: 1–5
- **A Comparative Analysis of Patients Undergoing Fusion for Adult Cervical Deformity by Approach Type** *GLOBAL SPINE JOURNAL*
Varshneya, K., Medress, Z. A., Stienen, M. N., Nathan, J., Ho, A., Pendharkar, A. V., Loo, S., Aikin, J., Li, G., Desai, A., Ratliff, J. K., Veeravagu, A.
2020
- **Boda Bodas and Road Traffic Injuries in Uganda: An Overview of Traffic Safety Trends from 2009 to 2017.** *International journal of environmental research and public health*
Vaca, S. D., Feng, A. Y., Ku, S., Jin, M. C., Kakusa, B. W., Ho, A. L., Zhang, M., Fuller, A., Haglund, M. M., Grant, G.
2020; 17 (6)
- **Objective activity tracking in spine surgery: a prospective feasibility study with a low-cost consumer grade wearable accelerometer.** *Scientific reports*
Stienen, M. N., Rezaii, P. G., Ho, A. L., Veeravagu, A., Zygourakis, C. C., Tomkins-Lane, C., Park, J., Ratliff, J. K., Desai, A. M.
2020; 10 (1): 4939
- **Postoperative Complication Burden, Revision Risk, and Health Care Use in Obese Patients Undergoing Primary Adult Thoracolumbar Deformity Surgery** *GLOBAL SPINE JOURNAL*
Varshneya, K., Pangal, D. J., Stienen, M. N., Ho, A. L., Fatemi, P., Medress, Z. A., Herrick, D. B., Desai, A., Ratliff, J. K., Veeravagu, A.
2020
- **Intraoperative Evaluation of Essential Vocal Tremor in Deep Brain Stimulation Surgery.** *American journal of speech-language pathology*
Erickson-DiRenzo, E., Sung, C. K., Ho, A. L., Halpern, C. H.
2020: 1–13
- **Postoperative outcomes following pediatric intracranial electrode monitoring: A case for stereoelectroencephalography (SEEG).** *Epilepsy & behavior : E&B*
Kim, L. H., Parker, J. J., Ho, A. L., Pendharkar, A. V., Sussman, E. S., Halpern, C. H., Porter, B., Grant, G. A.
2020; 104 (Pt A): 106905
- **Utilization of Novel High-Resolution, MRI-Based Vascular Imaging Modality for Preoperative Stereoelectroencephalography Planning in Children: A Technical Note.** *Stereotactic and functional neurosurgery*

- Feng, A. Y., Ho, A. L., Kim, L. H., Sussman, E. S., Pendharkar, A. V., Iv, M., Yeom, K. W., Halpern, C. H., Grant, G. A.
2020: 1–7
- **Evaluating the Impact of Spinal Osteotomy on Surgical Outcomes of Thoracolumbar Deformity Correction.** *World neurosurgery*
Varshneya, K., Stienen, M. N., Ho, A. L., Medress, Z. A., Fatemi, P., Pendharkar, A. V., Ratliff, J. K., Veeravagu, A.
2020
 - **Conventional Versus Stereotactic Image Guided Pedicle Screw Placement During Spinal Deformity Correction: A Retrospective Propensity Score-Matched Study of a National Longitudinal Database.** *The International journal of neuroscience*
Rezaii, P. G., Pendharkar, A. V., Ho, A. L., Sussman, E. S., Veeravagu, A., Ratliff, J. K., Desai, A. M.
2020: 1–13
 - **Postoperative Complication Burden, Revision Risk, and Health Care Use in Obese Patients Undergoing Primary Adult Thoracolumbar Deformity Surgery.** *Global spine journal*
Varshneya, K., Pangal, D. J., Stienen, M. N., Ho, A. L., Fatemi, P., Medress, Z. A., Herrick, D. B., Desai, A., Ratliff, J. K., Veeravagu, A.
2020: 2192568220904341
 - **A Comparative Analysis of Patients Undergoing Fusion for Adult Cervical Deformity by Approach Type.** *Global spine journal*
Varshneya, K., Medress, Z. A., Stienen, M. N., Nathan, J., Ho, A., Pendharkar, A. V., Loo, S., Aikin, J., Li, G., Desai, A., Ratliff, J. K., Veeravagu, A.
2020: 2192568220915717
 - **Opioid Use in Adults with Low Back or Lower Extremity Pain who Undergo Spine Surgical Treatment within One Year of Diagnosis.** *Spine*
Fatemi, P., Zhang, Y., Ho, A., Lama, R., Jin, M., Veeravagu, A., Desai, A., Ratliff, J. K.
2020
 - **Single- versus dual-attending strategy for spinal deformity surgery: 2-year experience and systematic review of the literature.** *Journal of neurosurgery. Spine*
Cheng, I., Stienen, M. N., Medress, Z. A., Varshneya, K., Ho, A. L., Ratliff, J. K., Veeravagu, A.
2020: 1–12
 - **Functional Mapping for Glioma Surgery: A Propensity-matched Analysis of Outcomes and Cost.** *World neurosurgery*
Pendharkar, A. V., Rezaii, P. G., Ho, A. L., Sussman, E. S., Li, G., Desai, A. M.
2020
 - **Contralateral acute vascular occlusion following revascularization surgery for moyamoya disease** *JOURNAL OF NEUROSURGERY*
Sussman, E. S., Madhugiri, V., Teo, M., Nielsen, T. H., Furtado, S., Pendharkar, A., Ho, A. L., Esparza, R., Azad, T. D., Zhang, M., Steinberg, G. K.
2019; 131 (6): 1702–8
 - **Timing of Adjuvant Radiation Therapy and Risk of Wound-Related Complications Among Patients With Spinal Metastatic Disease** *GLOBAL SPINE JOURNAL*
Azad, T. D., Varshneya, K., Herrick, D. B., Pendharkar, A., Ho, A. L., Stienen, M., Zygorakis, C., Bagshaw, H. P., Veeravagu, A., Ratliff, J. K., Desai, A.
2019
 - **Outcomes After Cervical Disc Arthroplasty Versus Stand-Alone Anterior Cervical Discectomy and Fusion: A Meta-Analysis** *GLOBAL SPINE JOURNAL*
Gendreau, J. L., Kim, L. H., Prins, P. N., D'Souza, M., Rezaii, P., Pendharkar, A., Sussman, E. S., Ho, A. L., Desai, A. M.
2019
 - **Letter: Antibiotic Stewardship and Single-Dose Antibiotic Prophylaxis: A Word of Caution.** *Neurosurgery*
Ho, A. L., Stienen, M. N., Ratliff, J. K.
2019
 - **Patterns of Opioid and Benzodiazepine Use in Opioid-Naive Patients with Newly Diagnosed Low Back and Lower Extremity Pain.** *Journal of general internal medicine*
Azad, T. D., Zhang, Y., Stienen, M. N., Vail, D., Bentley, J. P., Ho, A. L., Fatemi, P., Herrick, D., Kim, L. H., Feng, A., Varshneya, K., Jin, M., Veeravagu, et al
2019
 - **Propensity-matched Comparison of Outcomes and Costs After Macroscopic and Microscopic Anterior Cervical Corpectomy Using a National Longitudinal Database.** *Spine*
Ho, A. L., Rezaii, P. G., Pendharkar, A. V., Sussman, E. S., Veeravagu, A., Ratliff, J. K., Desai, A. M.
2019; 44 (21): E1281–E1288

- **Conventional Versus Stereotactic Image-guided Pedicle Screw Placement During Posterior Lumbar Fusions: A Retrospective Propensity Score-matched Study of a National Longitudinal Database.** *Spine*
Pendharkar, A. V., Rezaei, P. G., Ho, A. L., Sussman, E. S., Veeravagu, A., Ratliff, J. K., Desai, A. M.
2019; 44 (21): E1272–E1280
- **Anatomic and Thermometric Analysis of Cranial Nerve Palsy after Laser Amygdalohippocampotomy for Mesial Temporal Lobe Epilepsy.** *Operative neurosurgery (Hagerstown, Md.)*
Huang, Y., Leung, S. A., Parker, J. J., Ho, A. L., Wintermark, M., Patel, S. H., Pauly, K. B., Kakusa, B. W., Beres, S. J., Henderson, J. M., Grant, G. A., Halpern, C. H.
2019
- **Laminectomy versus Corpectomy for Spinal Metastatic Disease-Complications, Costs, and Quality Outcomes.** *World neurosurgery*
Azad, T. D., Varshneya, K., Ho, A. L., Veeravagu, A., Sciubba, D. M., Ratliff, J. K.
2019
- **Grade II Spondylolisthesis: Reverse Bohlman Procedure with Trans-Discal S1-L5 and S2Ai Screws Placed with Robotic Guidance.** *World neurosurgery*
Ho, A. L., Varshneya, K., Medress, Z. A., Pendharkar, A. V., Sussman, E. S., Cheng, I., Veeravagu, A.
2019
- **Focal Intramedullary Spinal Cord Lesion in Human Immunodeficiency Virus/Acquired Immunodeficiency Syndrome: Toxoplasmosis Versus Lymphoma** *WORLD NEUROSURGERY*
Mohole, J., Ho, A. L., Sussman, E. S., Pendharkar, A. V., Lee, M.
2019; 127: 227–31
- **Objective measures of functional impairment for degenerative diseases of the lumbar spine: a systematic review of the literature** *SPINE JOURNAL*
Stienen, M. N., Ho, A. L., Staartjes, V. E., Maldaner, N., Veeravagu, A., Desai, A., Gautschi, O. P., Bellut, D., Regli, L., Ratliff, J. K., Park, J.
2019; 19 (7): 1276–93
- **Facial Nerve Paralysis Occurring 4 Days following Stereotactic Radiosurgery for a Vestibular Schwannoma.** *Asian journal of neurosurgery*
Chow, K. K., Ajlan, A., Ho, A. L., Li, G., Soltys, S. G.
; 14 (1): 262–65
- **Deep Brain Stimulation for Chronic Cluster Headache: A Review** *NEUROMODULATION*
Vyas, D. B., Ho, A. L., Dadey, D. Y., Pendharkar, A. V., Sussman, E. S., Cowan, R., Halpern, C. H.
2019; 22 (4): 388–97
- **Effects of surgical targeting in laser interstitial thermal therapy for mesial temporal lobe epilepsy: A multicenter study of 234 patients.** *Epilepsia*
Wu, C., Jermakowicz, W. J., Chakravorti, S., Cajigas, I., Sharan, A. D., Jagid, J. R., Matias, C. M., Sperling, M. R., Buckley, R., Ko, A., Ojemann, J. G., Miller, J. W., Youngerman, et al
2019
- **Expenditures and Health Care Utilization Among Adults With Newly Diagnosed LowBack and Lower Extremity Pain** *JAMA NETWORK OPEN*
Kim, L. H., Vail, D., Azad, T. D., Bentley, J. P., Zhang, Y., Ho, A. L., Fatemi, P., Feng, A., Varshneya, K., Desai, M., Veeravagu, A., Ratliff, J. K.
2019; 2 (5)
- **Image-guided Percutaneous Polymethylmethacrylate-augmented Spondylodesis for Painful Metastasis in the Veteran Population** *CUREUS*
Sussman, E. S., Ho, A., Pendharkar, A., Tharin, S.
2019; 11 (4)
- **Focal Intramedullary Spinal Cord Lesion in HIV/AIDs: Toxoplasmosis vs. Lymphoma.** *World neurosurgery*
Mohole, J., Ho, A. L., Sussman, E. S., Pendharkar, A. V., Lee, M.
2019
- **Objective measures of functional impairment for degenerative diseases of the lumbar spine: a systematic review of the literature.** *The spine journal : official journal of the North American Spine Society*
Stienen, M. N., Ho, A. L., Staartjes, V. E., Maldaner, N., Veeravagu, A., Desai, A., Gautschi, O. P., Bellut, D., Regli, L., Ratliff, J. K., Park, J.
2019
- **Expenditures and Health Care Utilization Among Adults With Newly Diagnosed Low Back and Lower Extremity Pain.** *JAMA network open*
Kim, L. H., Vail, D., Azad, T. D., Bentley, J. P., Zhang, Y., Ho, A. L., Fatemi, P., Feng, A., Varshneya, K., Desai, M., Veeravagu, A., Ratliff, J. K.

2019; 2 (5): e193676

- **Brain abscess caused by *Trueperella bernardiae* in a child.** *Surgical neurology international*
Pan, J., Ho, A. L., Pendharkar, A. V., Sussman, E. S., Casazza, M., Cheshier, S. H., Grant, G. A.
2019; 10: 35
- **Optogenetic Modulation for the Treatment of Traumatic Brain Injury.** *Stem cells and development*
Delaney, S. L., Gendreau, J. L., DSouza, M., Feng, A. Y., Ho, A.
2019
- **Graft Materials and Biologics for Spinal Interbody Fusion.** *Biomedicines*
D'Souza, M., Macdonald, N. A., Gendreau, J. L., Duddlestone, P. J., Feng, A. Y., Ho, A. L.
2019; 7 (4)
- **Reliability of the 6-minute walking test smartphone application.** *Journal of neurosurgery. Spine*
Stienen, M. N., Gautschi, O. P., Staartjes, V. E., Maldaner, N., Sosnova, M., Ho, A. L., Veeravagu, A., Desai, A., Zygourakis, C. C., Park, J., Regli, L., Ratliff, J. K.
2019: 1–8
- **Outcomes After Cervical Disc Arthroplasty Versus Stand-Alone Anterior Cervical Discectomy and Fusion: A Meta-Analysis.** *Global spine journal*
Gendreau, J. L., Kim, L. H., Prins, P. N., D'Souza, M., Rezaii, P., Pendharkar, A. V., Sussman, E. S., Ho, A. L., Desai, A. M.
2019: 2192568219888448
- **Timing of Adjuvant Radiation Therapy and Risk of Wound-Related Complications Among Patients With Spinal Metastatic Disease.** *Global spine journal*
Azad, T. D., Varshneya, K., Herrick, D. B., Pendharkar, A. V., Ho, A. L., Stienen, M., Zygourakis, C., Bagshaw, H. P., Veeravagu, A., Ratliff, J. K., Desai, A.
2019: 2192568219889363
- **Robotic-Assisted Spine Surgery: History, Efficacy, Cost, And Future Trends.** *Robotic surgery (Auckland)*
D'Souza, M., Gendreau, J., Feng, A., Kim, L. H., Ho, A. L., Veeravagu, A.
2019; 6: 9–23
- **Analysis of Outcomes and Cost of Inpatient and Ambulatory Anterior Cervical Disk Replacement Using a State-level Database.** *Clinical spine surgery*
Purger, D. A., Pendharkar, A. V., Ho, A. L., Sussman, E. S., Veeravagu, A., Ratliff, J. K., Desai, A. M.
2019
- **Image-guided Percutaneous Polymethylmethacrylate-augmented Spondylodesis for Painful Metastasis in the Veteran Population.** *Cureus*
Sussman, E. S., Ho, A., Pendharkar, A. V., Tharin, S.
2019; 11 (4): e4509
- **Topical Vancomycin for Surgical Prophylaxis in Pediatric Craniofacial Surgeries.** *The Journal of craniofacial surgery*
Mohole, J., Ho, A. L., Cannon, J. G., Pendharkar, A. V., Sussman, E. S., Hong, D. S., Cheshier, S. H., Grant, G. A.
2019
- **Stereotactic laser ablation for completion corpus callosotomy.** *Journal of neurosurgery. Pediatrics*
Huang, Y., Yecies, D., Bruckert, L., Parker, J. J., Ho, A. L., Kim, L. H., Fornoff, L., Wintermark, M., Porter, B., Yeom, K. W., Halpern, C. H., Grant, G. A.
2019: 1–9
- **Robot-assisted versus manual navigated stereoelectroencephalography in adult medically-refractory epilepsy patients.** *Epilepsy research*
Kim, L. H., Feng, A. Y., Ho, A. L., Parker, J. J., Kumar, K. K., Chen, K. S., Grant, G. A., Henderson, J. M., Halpern, C. H.
2019; 159: 106253
- **Topical vancomycin surgical prophylaxis in pediatric open craniotomies: an institutional experience** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
Ho, A. L., Cannon, J. D., Mohole, J., Pendharkar, A., Sussman, E. S., Li, G., Edwards, M. B., Cheshier, S. H., Grant, G. A.
2018; 22 (6): 710–15
- **Laser interstitial thermal therapy (LITT): Seizure outcomes for refractory mesial temporal lobe epilepsy.** *Epilepsy & behavior : E&B*
Le, S., Ho, A. L., Fisher, R. S., Miller, K. J., Henderson, J. M., Grant, G. A., Meador, K. J., Halpern, C. H.
2018; 89: 37–41
- **Deep Brain Stimulation for Chronic Cluster Headache: A Review.** *Neuromodulation : journal of the International Neuromodulation Society*
Vyas, D. B., Ho, A. L., Dadey, D. Y., Pendharkar, A. V., Sussman, E. S., Cowan, R., Halpern, C. H.

2018

- **Intraoperative Cerebrospinal Fluid Leak in Extradural Spinal Tumor Surgery.** *Neurospine*
Ropper, A. E., Huang, K. T., Ho, A. L., Wong, J. M., Nalbach, S. V., Chi, J. H.
2018
- **Stereoencephalography in children: a review.** *Neurosurgical focus*
Ho, A. L., Feng, A. Y., Kim, L. H., Pendharkar, A. V., Sussman, E. S., Halpern, C. H., Grant, G. A.
2018; 45 (3): E7
- **Robot-guided pediatric stereoencephalography: single-institution experience.** *Journal of neurosurgery. Pediatrics*
Ho, A. L., Muftuoglu, Y., Pendharkar, A. V., Sussman, E. S., Porter, B. E., Halpern, C. H., Grant, G. A.
2018: 1–8
- **Anterior Techniques in Managing Cervical Disc Disease.** *Cureus*
Kim, L. H., D'Souza, M., Ho, A. L., Pendharkar, A. V., Sussman, E. S., Rezaii, P., Desai, A.
2018; 10 (8): e3146
- **Rapid-sequence brain magnetic resonance imaging for Chiari I abnormality** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
Pan, J., Quon, J. L., Johnson, E., Lanzman, B., Chukus, A., Ho, A. L., Edwards, M. B., Grant, G. A., Yeom, K. W.
2018; 22 (2): 158–64
- **Frameless stereotactic dual lead placement through single burr hole: A technical report.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Cartmell, S. C., Miller, K. J., Ho, A. L., Halpern, C. H.
2018
- **Topical vancomycin for surgical prophylaxis in non-instrumented pediatric spinal surgeries.** *Child's nervous system : ChNS : official journal of the International Society for Pediatric Neurosurgery*
Cannon, J. G., Ho, A. L., Mohole, J., Pendharkar, A. V., Sussman, E. S., Cheshier, S. H., Grant, G. A.
2018
- **Quantitative analysis of the safety and efficacy of microvascular decompression for patients with trigeminal neuralgia above and below 65#years of age.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Wallach, J., Ho, A. L., Kim, L. H., Chaudhuri, A. A., Chaudhary, N., Vaz-Guimaraes, F., Chang, S. D.
2018
- **Neuromodulatory Treatments for Alcohol Use Disorder: A Review.** *Brain sciences*
Salib, A. N., Ho, A. L., Sussman, E. S., Pendharkar, A. V., Halpern, C. H.
2018; 8 (6)
- **Minimally invasive approaches to craniostyosis.** *Journal of neurosurgical sciences*
Pendharkar, A. V., Shahin, M. N., Cavallo, C., Zhao, X., Ho, A. L., Sussman, E. S., Grant, G. A.
2018
- **Outpatient spine surgery: defining the outcomes, value, and barriers to implementation.** *Neurosurgical focus*
Pendharkar, A. V., Shahin, M. N., Ho, A. L., Sussman, E. S., Purger, D. A., Veeravagu, A., Ratliff, J. K., Desai, A. M.
2018; 44 (5): E11
- **Propensity-matched comparison of outcomes and cost after macroscopic and microscopic lumbar discectomy using a national longitudinal database.** *Neurosurgical focus*
Pendharkar, A. V., Rezaii, P. G., Ho, A. L., Sussman, E. S., Purger, D. A., Veeravagu, A., Ratliff, J. K., Desai, A. M.
2018; 44 (5): E12
- **Nurse Telephonic Triage Service for After-hour Patient Calls in Neurosurgery.** *Annals of surgery*
Escobedo-Wu, E. L., Dhebar, F., Harsh, G., Steinberg, G., Vyas, A., Katznelson, L., Ho, A. L., Pendharkar, A. V., Sussman, E. S., Rohatgi, N.
2018; 267 (4): e67–e68
- **Stereotactic radiosurgery for central nervous system hemangioblastoma: systematic review and meta-analysis** *JOURNAL OF NEURO-ONCOLOGY*
Pan, J., Jabarkheel, R., Huang, Y., Ho, A., Chang, S. D.
2018; 137 (1): 11–22

- **In Reply: The Use of Vancomycin Powder for Surgical Prophylaxis Following Craniotomy** *NEUROSURGERY*
Ho, A. L., Li, G. H.
2018; 82 (2): E71
- **Practical Pearl: Use of MRI to Differentiate Pseudo-subarachnoid Hemorrhage from True Subarachnoid Hemorrhage.** *Neurocritical care*
Ho, A. L., Sussman, E. S., Pendharkar, A. V., Iv, M., Hirsch, K. G., Fischbein, N. J., Dodd, R. L.
2018
- **Mild traumatic brain injury and concussion: terminology and classification.** *Handbook of clinical neurology*
Sussman, E. S., Pendharkar, A. V., Ho, A. L., Ghajar, J.
2018; 158: 21–24
- **Topical vancomycin surgical prophylaxis in pediatric open craniotomies: an institutional experience.** *Journal of neurosurgery. Pediatrics*
Ho, A. L., Cannon, J. G., Mohole, J., Pendharkar, A. V., Sussman, E. S., Li, G., Edwards, M. S., Cheshier, S. H., Grant, G. A.
2018: 1–6
- **Cervical Stenosis in Adult Arthrogyrosis: A Case Report and Review of the Literature.** *Journal of neurological surgery reports*
Ho, A. L., Mohole, J., Sussman, E. S., Pendharkar, A. V., Singh, H.
2018; 79 (1): e19–e22
- **Diffusion Tensor Imaging in an Infant Undergoing Functional Hemispherectomy: A Surgical Aid.** *Cureus*
Ho, A. L., Pendharkar, A. V., Sussman, E. S., Casazza, M., Grant, G. A.
2017; 9 (9): e1697
- **Outpatient vs Inpatient Anterior Cervical Discectomy and Fusion: A Population-Level Analysis of Outcomes and Cost.** *Neurosurgery*
Purger, D. A., Pendharkar, A. V., Ho, A. L., Sussman, E. S., Yang, L., Desai, M., Veeravagu, A., Ratliff, J. K., Desai, A.
2017
- **The Use of Vancomycin Powder for Surgical Prophylaxis Following Craniotomy.** *Neurosurgery*
Ravikumar, V., Ho, A. L., Pendhakar, A. V., Sussman, E. S., Kwong-Hon Chow, K., Li, G.
2017; 80 (5): 754-758
- **Interventional therapy for brain arteriovenous malformations before and after ARUBA** *JOURNAL OF CLINICAL NEUROSCIENCE*
Sussman, E. S., Iyer, A. K., Teo, M., Pendharkar, A. V., Ho, A. L., Steinberg, G. K.
2017; 37: 54-56
- **Stereotactic radiosurgery for non-vestibular cranial nerve schwannomas** *JOURNAL OF NEURO-ONCOLOGY*
D'Astous, M., Ho, A. L., Pendharkar, A., Choi, C. Y., Soltys, S. G., Gibbs, I. C., Tayag, A. T., Thompson, P. A., Adler, J. R., Chang, S. D.
2017; 131 (1): 177-183
- **DNA methylation analysis for the treatment of meningiomas.** *Journal of visualized surgery*
Gendreau, J. L., Chow, K. K., Sussman, E. S., Iyer, A., Pendharkar, A. V., Ho, A. L.
2017; 3: 178
- **Laser interstitial thermal therapy for the treatment of epilepsy: evidence to date** *NEUROPSYCHIATRIC DISEASE AND TREATMENT*
Shukla, N. D., Ho, A. L., Pendharkar, A. V., Sussman, E. S., Halpern, C. H.
2017; 13: 2469–75
- **Image-guided stereotactic radiosurgery for treatment of spinal hemangioblastoma** *NEUROSURGICAL FOCUS*
Pan, J., Ho, A. L., D'Astous, M., Sussman, E. S., Thompson, P. A., Tayag, A. T., Pangilinan, L., Soltys, S. G., Gibbs, I. C., Chang, S. D.
2017; 42 (1)
- **Interventional therapy for brain arteriovenous malformations before and after ARUBA.** *Journal of clinical neuroscience*
Sussman, E. S., Iyer, A. K., Teo, M., Pendharkar, A. V., Ho, A. L., Steinberg, G. K.
2016
- **Stereotactic radiosurgery for non-vestibular cranial nerve schwannomas.** *Journal of neuro-oncology*
D'Astous, M., Ho, A. L., Pendharkar, A., Choi, C. Y., Soltys, S. G., Gibbs, I. C., Tayag, A. T., Thompson, P. A., Adler, J. R., Chang, S. D.
2016: -?

- **Vocal Tremor: Novel Therapeutic Target for Deep Brain Stimulation.** *Brain sciences*
Ravikumar, V. K., Ho, A. L., Parker, J. J., Erickson-DiRenzo, E., Halpern, C. H.
2016; 6 (4)
- **Pituitary Apoplexy Associated with Carotid Compression and a Large Ischemic Penumbra.** *World neurosurgery*
Sussman, E. S., Ho, A. L., Pendharkar, A. V., Achrol, A. S., Harsh, G. R.
2016; 92: 581 e7-581 e13
- **CyberKnife Stereotactic Radiosurgery for Atypical and Malignant Meningiomas.** *World neurosurgery*
Zhang, M., Ho, A. L., D'Astous, M., Pendharkar, A. V., Choi, C. Y., Thompson, P. A., Tayag, A. T., Soltys, S. G., Gibbs, I. C., Chang, S. D.
2016; 91: 574-581 e1
- **Optogenetic modulation in stroke recovery** *NEUROSURGICAL FOCUS*
Pendharkar, A. V., Levy, S. L., Ho, A. L., Sussman, E. S., Cheng, M. Y., Steinberg, G. K.
2016; 40 (5)
- **Sports-related brain injuries: connecting pathology to diagnosis** *NEUROSURGICAL FOCUS*
Pan, J., Connolly, I. D., Dangelmajer, S., Kintzing, J., Ho, A. L., Grant, G.
2016; 40 (4)
- **Clinical evaluation of concussion: the evolving role of oculomotor assessments** *NEUROSURGICAL FOCUS*
Sussman, E. S., Ho, A. L., Pendharkar, A. V., Ghajar, J.
2016; 40 (4)
- **Impact of histopathological transformation and overall survival in patients with progressive anaplastic glioma.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Ho, A. L., Koch, M. J., Tanaka, S., Eichler, A. F., Batchelor, T. T., Tanboon, J., Louis, D. N., Cahill, D. P., Chi, A. S., Curry, W. T.
2016; 31: 99-105
- **Attitudes Toward Treating Addiction With Deep Brain Stimulation.** *Brain stimulation*
Ali, R., DiFrancesco, M. F., Ho, A. L., Kampman, K. M., Caplan, A. L., Halpern, C. H.
2016; 9 (3): 466-68
- **Integrating Cerebrospinal Fluid Shunt Quality Checks into the World Health Organization's Safe Surgery Checklist: A Pilot Study.** *World neurosurgery*
Wong, J. M., Perry, W. R., Greenberg, Y., Ho, A. L., Lipsitz, S. R., Goumnerova, L. C., Laws, E. R., Berry, W. R., Gawande, A. A., Bader, A. M.
2016; 92: 491-98.e3
- **National trends in inpatient admissions following stereotactic radiosurgery and the in-hospital patient outcomes in the United States from 1998 to 2011.** *Journal of radiosurgery and SBRT*
Ho, A. L., Li, A. Y., Sussman, E. S., Pendharkar, A. V., Iyer, A., Thompson, P. A., Tayag, A. T., Chang, S. D.
2016; 4 (3): 165-176
- **Deep brain stimulation for obesity: rationale and approach to trial design.** *Neurosurgical focus*
Ho, A. L., Sussman, E. S., Pendharkar, A. V., Azagury, D. E., Bohon, C., Halpern, C. H.
2015; 38 (6): E8-?
- **Deep brain stimulation for vocal tremor: a comprehensive, multidisciplinary methodology.** *Neurosurgical focus*
Ho, A. L., Erickson-DiRenzo, E., Pendharkar, A. V., Sung, C., Halpern, C. H.
2015; 38 (6): E6-?
- **Deep brain stimulation for vocal tremor: a comprehensive, multidisciplinary methodology** *NEUROSURGICAL FOCUS*
Ho, A. L., Erickson-DiRenzo, E., Pendharkar, A. V., Sung, C., Halpern, C. H.
2015; 38 (6)
- **Dual-trajectory Approach for Simultaneous Cyst Fenestration and Endoscopic Third Ventriculostomy for Treatment of a Complex Third Ventricular Arachnoid Cyst.** *Cureus*
Ho, A. L., Pendharkar, A. V., Sussman, E. S., Ravikumar, V. K., Li, G. H.
2015; 7 (3)
- **Deep Brain Stimulation for Essential Vocal Tremor: A Technical Report.** *Cureus*

- Ho, A. L., Choudhri, O., Sung, C. K., DiRenzo, E. E., Halpern, C. H.
2015; 7 (3)
- **Deep Brain Stimulation for Obesity.** *Cureus*
Ho, A. L., Sussman, E. S., Zhang, M., Pendharkar, A. V., Azagury, D. E., Bohon, C., Halpern, C. H.
2015; 7 (3)
 - **Cushing's disease: predicting long-term remission after surgical treatment** *NEUROSURGICAL FOCUS*
Pendharkar, A. V., Sussman, E. S., Ho, A. L., Gephart, M. G., Katznelson, L.
2015; 38 (2)
 - **Association Between Vascular Anatomy and Posterior Communicating Artery Aneurysms.** *World neurosurgery*
Can, A., Ho, A. L., Emmer, B. J., Dammers, R., Dirven, C. M., Du, R.
2015; 84 (5): 1251–55
 - **Morphological parameters associated with middle cerebral artery aneurysms.** *Neurosurgery*
Can, A., Ho, A. L., Dammers, R., Dirven, C. M., Du, R.
2015; 76 (6): 721–26; discussion 726–27
 - **Effect of vascular anatomy on the formation of basilar tip aneurysms.** *Neurosurgery*
Can, A., Mouminah, A., Ho, A. L., Du, R.
2015; 76 (1): 62–66
 - **Surgical Management of Sacral Chordomas: Illustrative Cases and Current Management Paradigms.** *Cureus*
Pendharkar, A. V., Ho, A. L., Sussman, E. S., Desai, A.
2015; 7 (8)
 - **Posterior cerebral artery angle and the rupture of basilar tip aneurysms.** *PloS one*
Ho, A. L., Mouminah, A., Du, R.
2014; 9 (10): e110946
 - **Morphological parameters associated with ruptured posterior communicating aneurysms.** *PloS one*
Ho, A., Lin, N., Charoenvimolphan, N., Stanley, M., Frerichs, K. U., Day, A. L., Du, R.
2014; 9 (4): e94837
 - **Analysis of morphological parameters to differentiate rupture status in anterior communicating artery aneurysms.** *PloS one*
Lin, N., Ho, A., Charoenvimolphan, N., Frerichs, K. U., Day, A. L., Du, R.
2013; 8 (11): e79635
 - **Molecular basis of intervertebral disc degeneration.** *Advances in experimental medicine and biology*
Gopal, D., Ho, A. L., Shah, A., Chi, J. H.
2012; 760: 114–133
 - **Exploitation of genetically modified neural stem cells for neurological disease.** *Advances in experimental medicine and biology*
Ho, A. L., Keshavarzi, S., Levy, M. L.
2010; 671: 74–92
 - **Stem cells and the origin of gliomas: A historical reappraisal with molecular advancements.** *Stem cells and cloning : advances and applications*
Levy, M. L., Ho, A. L., Hughes, S., Menon, J., Jandial, R.
2009; 1: 41–47
 - **Stem cell horizons in intervertebral disc degeneration.** *Stem cells and cloning : advances and applications*
Ciacci, J., Ho, A., Ames, C. P., Jandial, R.
2009; 1: 31–39