

**WORK EXPERIENCE:**

ADVANCED NEUROSURGERY ASSOCIATES – New Jersey  
Attending, 2022-present

**EDUCATION**

UNIVERSITY OF MICHIGAN - ANN ARBOR  
B.S. Zoology-Anthropology, April 2008. Conferred with Honors

STONY BROOK UNIVERSITY MEDICAL SCHOOL  
M.D. 2009-2014

NORTHWELL HEALTH –NEURO-ONCOLOGY FELLOWSHIP  
Fellowship, 2018 - 2019

NORTHWELL HEALTH – DEPARTMENT OF NEUROSURGERY  
Residency, 2014 - 2021

COLUMBIA UNIVERSITY ADULT AND PEDIATRIC COMPREHENSIVE SPINE FELLOWSHIP  
Fellowship, 2021-2022

**AWARDS & HONORS**

Barry Coller Research Scholarship Award

The Abraham H. Grant Scholastic Award Division of Rheumatology Rackham Arthritis Research

North Shore University Hospital Medical Staff Society Award

Northwell Clinical Research Symposium Award

**RESEARCH EXPERIENCE:**

2017 - 2018 Northwell Health, New York  
Resident Fellow - Galantamine Effects in Glioblastoma

2013 - 2014 The Feinstein Institute For Medical Research, New York  
Visiting Scholar - Vagus Nerve Stimulation and Immunological Homeostasis

2010 -2010 Hong Kong University, Hong Kong  
Visiting Scholar – Stem Cell Microenvironment in Osteoarthritis

2008 - 2009 The Feinstein Institute For Medical Research, New York  
Research Assistant - Susceptibility Genomes in Murine Autoimmune Arthritis.

2006 - 2008 University of Michigan Medical School, Michigan  
Undergraduate Research – Anti-Inflammatory Effects of Epigallocatechin-3-gallate in Rheumatoid Arthritis

**SCIENTIFIC CONFERENCES**

The Federation of American Societies for Experimental Biology, San Diego, 2008

American Association of Immunology, Honolulu, 2013

Shock Society Conference, San Diego, 2013

Federation of Clinical Immunological Societies. Boston, 2013  
Cushing Neuroscience Institute Annual Symposium. Manhasset, 2013  
Merinoff World Congress. Manhasset, 2013  
North American Skull Base Society. San Diego, 2014  
American Association of Neurological Surgeons. New Orleans, 2018.  
Neurotrauma. Toronto, 2018  
World Society for Stereotactic and Functional Neurosurgery 2019

## **EDITORIAL BOARD MEMBER**

Journal of Clinical Neurology and Neurosurgery

## **ABSTRACTS & POSTERS**

Ahmed S, Kwan K, Pakozdi A, Koch AE. Epigallocatechin-3-gallate (EGCG) down-regulates prostaglandin E2 (PGE2) mediated production of interleukin-6 (IL-6) in rheumatoid arthritis synovial fibroblasts. Poster presented at: Annual Conference of the American College of Rheumatology; Boston, MA. 2007.

Ahmed S, Silverman M, Kwan K, Koch AE. Coordinated Action of epigallocatechin-3-gallate (EGCG) and TNF-alpha on cell proliferation and apoptosis in rheumatoid arthritis synovial fibroblasts. Poster presented at: UROP Junior Senior Program and Research Scholars Spring Forum; Ann Arbor, MI. 2007.

Ahmed S, Kwan K, Marotte H, Koch AE. Prostaglandin E2 (PGE2) induces IL-6 production in rheumatoid arthritis synovial fibroblasts: role of EP2 and EP4 receptors. Poster presented at: Annual Conference of the American College of Rheumatology; San Francisco, CA. 2008.

Ahmed S, Kwan K, Marotte H, Koch AE. Regulation of Prostaglandin E2 (PGE2)-induced IL-6 production by Epigallocatechin-3-gallate (EGCG) in rheumatoid arthritis synovial fibroblasts. Poster presented at: The Federation of American Societies for Experimental Biology; San Diego, CA. 2008.

Devarajan A, Joshi S, Kwan K, Lu B, Tracey KJ. Ethyl Pyruvate Inhibits Inflammasome Activation. Poster presented at: Merinoff World Congress; Manhasset, NY. 2013.

Kwan K, Lu B, Antoine DJ, Lundbäck P, Wähämaa H, Yang H, Li J, Wang H, Chavan SS, Andersson U, Tracey KJ. HMGB1 phosphorylation and nuclear translocation utilizes the JAK/STAT1 pathway. Poster presented at: Merinoff World Congress; Manhasset, NY. 2013.

Lu B, Antoine DJ, Kwan K, Lundbäck P, Wähämaa H, Yang H, Li J, Wang H, Chavan SS, Andersson U, Tracey KJ. Critical role of JAK/STAT1 pathway in HMGB1 hyperacetylation and nuclear translocation. Poster presented at: Shock Society Conference; San Diego, CA. 2013.

Lu B, Yaakov L, Huan Y, Kwan K, Andersson U, Chavan S, Tracey K. Cholinergic neuronal signals attenuate inflammasome activation through inhibiting mitochondrial stress. Poster presented at: American Association of Immunology; Honolulu, HI. 2013.

Lu B, Yaakov L, Huan Y, Kwan K, Andersson U, Chavan S, Tracey KJ. Cholinergic neuronal signals attenuate inflammasome activation through inhibiting mitochondrial stress.. Poster presented at: Federation of Clinical Immunological Societies; Boston, MA. 2013.

Stavropoulos SN, Modayil RJ, Widmer JL, Coppola T, Zapiach M, Kwan K, Chatha AM, Grendell JH. Early experience with Endoscopic Submucosal Dissection (ESD) for early mucosal neoplasms (EMNs) and subepithelial tumors (SETs) at a U.S. center. Poster presented at: Digestive Disease Week; Orlando, FL. 2013.

Kwan K, Schaeffer BT, Black KS, Eisenberg ME. Primary Solitary Retro-clival Amyloidoma: A Case Report and Review of the Literature. North American Skull Base Society. Tampa, FL. 2014.

Labib M, Kwan K, Langer D, Chalif D, Dehdashti A. Prophylactic hemicraniectomy for MCA aneurysms with Intracerebral hemorrhage. AANS/CNS Vascular Section. 2016.

Julia R. Schneider, Kay O. Kulason, Ralph Rahme, Tristan Tham, Kevin Kwan, Timothy G. White, Shamik Chakraborty, David J. Langer, Peter D. Costantino, John A. Boockvar. Surgical Management of high-grade, advanced-stage esthesioneuroblastoma: the lenox hill experience. Northwell Clinical Research Symposium. 2017.

Julia R. Schneider, Kay O. Kulason, Ralph Rahme, Tristan Tham, Kevin Kwan, Timothy G. White, Shamik Chakraborty, David J. Langer, Peter D. Costantino, John A. Boockvar. Two-team approach to meningiomas of the anterior skull base: the lenox hill hospital experience, 2011 – 2017. Northwell Clinical Research Symposium. 2017.

Julia R. Schneider, Kay O. Kulason, Ralph Rahme, Tristan Tham, Kevin Kwan, Timothy G. White, Shamik Chakraborty, David J. Langer, Peter D. Costantino, John A. Boockvar. Building of a multidisciplinary anterior skull base team: the lenox hill hospital experience, 2011 – 2017. Northwell Clinical Research Symposium. 2017.

Julia R. Schneider, Kay O. Kulason, Ralph Rahme, Tristan Tham, Kevin Kwan, Timothy G. White, Shamik Chakraborty, David J. Langer, Peter D. Costantino, John A. Boockvar. Surgical management of sinonasal malignancies: the lenox hill hospital experience. Northwell Clinical Research Symposium. 2017.

Julia R. Schneider, Kay O. Kulason, Ralph Rahme, Tristan Tham, Kevin Kwan, Timothy G. White, Shamik Chakraborty, David J. Langer, Peter D. Costantino, John A. Boockvar. Endoscopic endonasal repair of anterior cranial fossa meningoencephaloceles. Northwell Clinical Research Symposium. 2017.

Julia R. Schneider, Lauren Rahman, Tristan Tham, Kevin Kwan, Rafael Ortiz, Deborah Shatzkes, Dennis Kraus, John A. Boockvar, Peter D. Costantino. Phase I trial of super-selective intra-arterial cetuximab for the treatment of unresectable recurrent squamous cell carcinoma of the head and neck with or without radiation therapy: report on first dose cohort. Northwell Clinical Research Symposium. 2017.

Kevin Kwan, Praveen K Mital, Timothy Li, Monica Contreras, Orseola Arapi, Julia Schneider, BS; Mae Ward, RN; Jamie Ullman, MD  
Management of Minor Traumatic Brain Injury in Emergency Department Clinical Decision Unit Significantly Reduces Length of Stay. Neurotrauma. Toronto Canada. Poster. 2018.

Julia R. Schneider, Kay O. Kulason, Kevin Kwan, Shamik Chakraborty, Christopher G. Filippi, Bidyut Pramanik, Tamika Wong, Shereese Fralin, Karissa Tan, Ashley Ray, Rachel A. Alter, Rafael Ortiz, Alexis Demopoulos, John A. Boockvar. SIACI of Cetuximab with BBB Disruption Combined with Stupp Protocol for Newly Diagnosed Glioblastoma. AANS 2018.

Julia R. Schneider BS, Kay O. Kulason BA, Muhammad Babar Khan MD, Timothy G. White MD, Kevin Kwan MD, Lukas Faltings, Andrew J. Kobets, Shamik Chakraborty, Jason A. Ellis, Rafael A. Ortiz, Christopher G. Filippi, David J. Langer, John A. Boockvar. Biotechnology Advances in Neuro-Oncology. AANS 2018.

Kevin Kwan MD, George Klironomos MD, Julia R. Schneider, Jeffrey Katz, Avi Setton, David Chalif, Amir Dehdasht. Multimodality Treatment of High Grade Posterior Fossa Dural Arteriovenous Fistulas. CNS/Vascular Section 2018.

Orseola Arapi, Kevin Kwan, David Ledoux. Patient and Family Advocate Menu for Participation to Ease Recovery. Neurosafe August 2018.

Kevin Kwan, MD, Orseola Arapi, BS, Katherine Wagner, MD, Benziger, Bensam, MD, Julia Schneider, BS, Chunyan Li, PhD, Raj Narayan, MD, Mae Ward, RN, Denise McDermott, RN, Edmund J Miller, PhD, David Ledoux, MD. Cerebrospinal fluid concentrations of Macrophage Migration Inhibitory Factor as a potential biomarker of vasospasm in subarachnoid hemorrhage. Feinstein Retreat 2018.

Danielle Golub, BS, Kevin Kwan MD, Neal Mehan MD, Michael Schulder MD. Supracerebellar Transtentorial Approach for Occipital Meningioma to Maximize Visual Preservation: Technical Note. Society for Neuro-oncology. November 15 2018.

Kwan, Wright, Arapi, Schneider, Raio, Ledoux, Temes. Utilizing a Checklist-based Approach to improve Patient Pain Satisfaction Scores in Post-Operative Neurosurgical Patients. International Forum on Quality and Safety in Healthcare. 2019.

Kevin Kwan, Troy Dawley, Julia Schneider, Orseola Arapi, Gurtej Gill, Raphael Jakobovic, Anuj Goenka, Michael Schulder. First Report on Frameless Mask Optimization Using the Elekta Leksell Gamma Knife Icon. AANS 2019.

Kevin Kwan, Troy Dawley, Julia Schneider, Orseola Arapi, Gurtej Gill, Raphael Jakobovic, Anuj Goenka, Michael Schulder. First Report on Frameless Mask Optimization Using the Elekta Leksell Gamma Knife Icon. WSSFN 2019.

Kevin Kwan, Troy Dawley, Julia Schneider, Orseola Arapi, Gurtej Gill, Raphael Jakobovic, Anuj Goenka, Michael Schulder. First Report on Frameless Mask Optimization Using the Elekta Leksell Gamma Knife Icon. Frontiers of Radiosurgery 2019.

Arapi, Orseola. Kwan K, Julia Schneider, David Ledoux. Right Ventricular Function after Aneurysmal Subarachnoid Hemorrhage: An Investigative Study. AANS 2019.

Brooke Kennamer, George Klironomos, Kevin Kwan, Julia R. Schneider, Andrew Kobets, Jeffrey Katz, Avi Setton, David Chalif, Amir Dehdashti. Presentation and Multi-modality Treatment of Posterior Fossa Arteriovenous Malformations. AANS 2019.

Julia Schneider, Kevin Kwan, Jian Yi Li, Michael Schulder. Implications of Histological Changes in Implanted Pulse Generators Subcutaneous Pockets and Risk for Infection. WSSFN 2019.

Kwan K, Lefkowitz M. Initial Experiences Utilizing An Expandable Lordotic Titanium Cage for Posterior Lumbar Instrumentation and Fusion. CNS 2020.

Outcomes of multiple rod fixation for long fusion to the sacrum. Kwan K, Lenke L, et al.

## **PUBLICATIONS/GRANTS**

Ahmed S, Marotte H, Kwan K, Ruth J, Campbell P, Pakozdi A, Rabquer B, Koch AE. Epigallocatechin-3-gallate (EGCG) inhibits IL-6 trans-signaling by enhancing soluble gp130 production. *Proc Natl Acad Sci*. 2008 Sep; 105(38): 14692-7. Cited in PubMed; PMID: 18796608

Kozlova S, Levine A, Kwan K, Millrath K, Meyer C. Utilizing Dredged Material as a Smoke Suppressant Additive. *Waste Management and Research*. 2008 Oct

Ahmed S, Silverman M, Marotte H, Kwan K, Matuszczak N, Koch AE. Down-regulation of myeloid cell leukemia 1 by epigallocatechin-3-gallate (EGCG) sensitizes rheumatoid arthritis synovial fibroblasts to tumor necrosis factor (TNF)-alpha-induced apoptosis. *Arthritis & Rheum*. 2009 May; 60(5): 1282-93. Cited in PubMed; PMID: 19404960

Xiaosen G, Brenner M, Zhang X, Laragione T, Tai S, Li Y, Bu J, Yin Y, Shah A, Kwan K, Li Y, Jun W, Gulko P. Whole-genome sequences of da and f344 rats with different susceptibilities to arthritis, autoimmunity, inflammation and cancer. *Genetics*. 2013 Aug; 194(4):1017-28. Cited in PubMed; PMID: 23695301

Ahmed S, Kwan K, Marotte H, Koch AE. Prostaglandin E2 selectively induces interleukin-6 production in rheumatoid arthritis synovial fibroblasts partly via NF-kB and STAT-3 pathways. *Toxicology and Applied Pharmacology*. 2013 Aug;

Olofsson PS, Oswald M, Lu B, Levine YA, Rosas M, Hudson L, Hanes W, Valdes SF, Bloom O, Kwan K, Pavlov VA, Yang H, Chavan SS, Andersson U, Diamond B, Gregersen PK, Tracey KJ. Ontogeny of choline acetyltransferase+ T cells in neural regulation of immunity. *Nature*. 2013 Aug

Stavropoulos S, Ghevariya V, Kwan K, DeJesus, D, Katsogridakis I, Gupta M, Rodriguez K, Barkan A, Angelos, G, Iqbal, S, Grendell, J. Prospective, randomized comparison of three Endoscopic submucosal dissection (ESD) knives in an acute porcine model: preliminary results from a U.S. center. *Gastrointestinal Endoscopy*. 2013 Aug

Kwan K, Antoine DJ, Zoelen M, Devarajan A, Joshi S, Tracey KJ, Lu B. Ethyl Pyruvate Inhibits Inflammasome Activation. *Shock*. 2013 Sep

Widmer J, M.Harris, T. Pitea, D. Friedel, J. Grendell, Kwan K and S. Stavropoulos. Prospective evaluation of a protocol for direct peroral cholangioscopy using gastroscopes. *Gastrointestinal Endoscopy*. 2013 Aug

Lu B, Antoine DJ, Kwan K, Lundback P, Wahamaa H, Schlerbeck H, Yang H, Li J, Harris HE, Chavan SS, Wang H, Andersson U, Tracey KJ.

Critical role of JAK/STAT1 in HMGB1 hyperacetylation and nuclear translocation. *Proc Natl Acad Sci*. 2014 Feb

Lu B, Kwan K, Yaakov L, Huan Y, Andersson U, Chavan S, Tracey K.  $\alpha 7$  nicotinic acetylcholine receptor signaling inhibits inflammasome activation by preventing mitochondrial DNA release. *Molecular Medicine*. 2014 Sep

William H, Olofsson P, Kwan K, Hudson L, Chavan S, Pavlov V, Tracey KJ. Galantamine Attenuates Type 1 Diabetes and Inhibits Anti-Insulin Antibodies in Non-Obese Diabetic Mice. *Molecular Medicine*. 2015 Aug.

Sujun Li, Kwan K, Tang Y, Wang X, Tang Y, Li J, Huan Y, Chavan S, Wang H, Andersson U, Lu B, Tracey K. Identification of ethyl pyruvate as a NLRP3 inflammasome inhibitor that preserves mitochondrial integrity. *Molecular Medicine*. 2018.

Schneider JR, Kwan K, Boockvar JA. Use of HER2-Specific Chimeric Antigen. Receptor-Modified Virus-Specific T Cells as a Potential Therapeutic for Progressive HER2-Positive Glioblastoma. *Neurosurgery*. 2017 Nov 1;81(5):N42-N43. doi: 10.1093/neuros/nyx449. PubMed PMID: 29088463.

Timothy G. White, Julia R. Schneider, Kay O. Kulason, Ralph Rahme, Kevin Kwan, Rafael A. Ortiz, David J. Langer, Steven Mandel. Moyamoya: An Update for the Practicing Neurologist. *Practical Neurology*. November 2017.

Julia R. Schneider, Kay O. Kulason, Muhammad Babar Khan, Timothy G. White, Kevin Kwan, Lukas Faltings, Andrew J. Kobets, Shamik Chakraborty, Jason A. Ellis MD, Rafael A. Ortiz, Christopher G. Filippi, David J. Langer, John A. Boockvar. Advances In Glioblastoma Therapies: A Collaborative Effort Between Physicians and the Biotechnology Industry. *Neurosurgery*. 2017.

Danielle Golub, BS, Kevin Kwan MD, Neal Mehan MD, Michael Schulder MD. Supracerebellar Transtentorial Approach for Occipital Meningioma to Maximize Visual Preservation: Technical Note. *Operative Neurosurgery*. December 2018

Unilateral Venous Approach to Contralateral or Bilateral Carotid Cavernous Shunts. *Journal of NeuroInterventional Surgery*. In Submission. 2018

Julia R. Schneider, Kevin Kwan, Kay O. Kulason, Lukas J. Faltings, Stephanie Colantonio, Scott Safir, Tina Loven, Jian Yi Li, Karen S. Black, B. Todd Schaeffer, Mark B. Eisenberg. Primary solitary retro-clival amyloidoma. Schneider JR, et al. *Surg Neurol Int*. 2018.

Schneider JR, Kulason KO, Patel NV, Kwan K, Faltings L, Ortiz R, Ellis J, Curry WT, Langer DJ, Boockvar JA. The Three-Dimensional Exoscope: Initial Experience in Brain Tumors. *Operative Neurosurgery*. In submission. 2018.

Schneider JR, Patel NV, Kwan K, Boockvar JA. Recurrent Glioblastoma Treated with Recombinant Poliovirus. *Neurosurgery*. 2018 Nov 1; [10.1093/neuros/nyy400](https://doi.org/10.1093/neuros/nyy400)

Patel NV, Schneider JR, Kwan K, Boockvar JA. The Glioblastoma Cell Ecosystem: Signals Between Progenitors and Progeny. *Neurosurgery*. 2018 Sep 1;83(3):E95. doi: 10.1093/neuros/nyy296. PubMed PMID: 30125029.

Patel NV, Schneider JR, Kwan K, Boockvar JA. Commentary: Endoscopic Endonasal Resection of Orbital Apex Cavernous Hemangioma: 2-Dimensional Operative Video. *Operative Neurosurgery*. 2018 Nov 28. doi: 10.1093/ons/opy248. PMID: 30496482.

Kwan K, Falting L, Schneider JR, Boockvar JA. Local Immunotherapy for Malignancy: A Role for Brain Tumors? *Neurosurgery*. 2018 Jul 1;83(1):E5. doi: 10.1093/neuros/nyy164.

Kwan K, Schneider JR, Boockvar JA. Quality of Life in Patients With Glioblastoma With Tumor-Treating Fields. *JAMA*. 2018 May 1;319(17):1822-1823. doi: 10.1001/jama.2018.1858. PubMed PMID: 29715350.

Khan MB, Schneider JR, Kwan K, Boockvar JA. Epigenetic Regulators of Glioma Stem Cells are Potential Therapeutic Targets. *Neurosurgery*. 2018 May 1;82(5):E104-E105. doi: 10.1093/neuros/nyy039. PubMed PMID: 29669117.

Kwan K, Schneider JR, Kobets A, Boockvar JA. Targeting Epidermal Growth Factor Receptors in Recurrent Glioblastoma Via a Novel Epithelial Growth Factor Receptor-Conjugated Nanocell Doxorubicin Delivery System. *Neurosurgery*. 2018 Mar 1;82(3):N23-N24. doi: 10.1093/neuros/nyx594. PubMed PMID: 29462438.

Schneider JR, Kwan K, Boockvar JA. Neutrophil-Guided Drug Delivery for Targeting Residual Glioma Cells. *Neurosurgery*. 2018 Jan 1;82(1):N7-N9. doi:

10.1093/neuros/nyx531. PubMed PMID: 29244135.

Kwan K, Schneider JR, Du V, Falting L, Boockvar JA, Oren J, Levine M, Langer DJ. Lessons Learned Using a High-Definition 3-Dimensional Exoscope for Spinal Surgery. *Oper Neurosurg (Hagerstown)*. 2018 Aug 14. doi: 10.1093/ons/opy196. [Epub ahead of print] PubMed PMID: 30124929.

Andrew Kobet, Kevin kwan, Jonathan Nakhla, David Altschul, David Gordon, Julia Schneider. Spontaneous, Atraumatic Posterior Fossa Subdural Hematoma. *Journal of clinical neuroscience*. 2018.

Nossek E, Schneider JR, Kwan K, Kulason KO, Du V, Chakraborty S, Rahme R, Faltings L, Ellis J, Ortiz R, Boockvar JA, Langer DJ. Technical Aspects and Operative Nuances Using a High-Definition 3-Dimensional Exoscope for Cerebral Bypass Surgery. *Oper Neurosurg (Hagerstown)*. 2018 Dec 3. doi: 10.1093/ons/opy342. [Epub ahead of print] PubMed PMID: 30508137.

Kwan K, Schneider JR, Patel NV, Boockvar JA. Tracing the Origin of Glioblastoma: Subventricular Zone Neural Stem Cells. *Neurosurgery*. 2019 Jan 1;84(1):E15-E16. doi: 10.1093/neuros/nyy512. PubMed PMID: 30551194.

Faltings L, Kulason KO, Du V, Schneider JR, Chakraborty S, Kwan K, Pramanik B, Boockvar J. Early Epidural Blood Patch to Treat Intracranial Hypotension after Iatrogenic Cerebrospinal Fluid Leakage from Lumbar Tubular Microdiscectomy. *Cureus*. 2018 Nov 26;10(11):e3633. doi: 10.7759/cureus.3633. PubMed PMID: 30705792; PubMed Central PMCID: PMC6349568.

Clare Killick-Cole, Soumen Khatua, Lukas Falting, Marc Symons, Julia Schneider, Kevin Kwan, John Boockvar, Miroslaw Janowski, Steven Gill, David Walder. Childhood brain tumors: The identification of drug repurposing as a research priority for novel CNS drug delivery systems, a systemic literature review. *Neuro-oncology*. In submission.

Patel NV, Schneider JR, Kwan K, Boockvar JA. Phenotypic Transformation of Astrocytes Into Tumor-Supportive Cells: Glioblastoma Cell Vesicle Release. *Neurosurgery*. 2019 Mar 1;84(3):E144-E145. doi: 10.1093/neuros/nyy624. PubMed PMID: 30767018.

Schneider JR, Kwan K, Boockvar JA. Missing Naive T cells in The Setting of Glioblastoma Are Found To be Sequestered in the Bone Marrow. 2019 July. *Neurosurgery*.

Danielle Golub, Kevin Kwan, Jonathan PS Knisely, Michael Schuler. Possible Abscopal Effect Observed in Frontal Meningioma After Localized IMRT on Posterior Meningioma Resection Cavity Without Adjuvant Immunotherapy. 2019. *Frontiers in Oncology, section Radiation Oncology*. Accepted.

Julia R. Schneider BS1 , Amrit Chilawal MD1 ,Orseola Arapi BA1 , Kevin Kwan MD1 , Amir R. Dehdashti MD1\* Near Total Versus Gross Total Resection of Large Vestibular Schwannomas: Facial Nerve. Outcome. *JNS* 2019. In submission.

Kevin Kwan, MD, Orseola Arapi, BS, Katherine Wagner, MD, Benziger, Bensam, MD, Julia Schneider, BS, Chunyan Li, PhD, Raj Narayan, MD, Mae Ward, RN, Denise McDermott, RN, Edmund J Miller, PhD, David Ledoux, MD. Cerebrospinal fluid concentrations of Macrophage Migration Inhibitory Factor as a potential biomarker of vasospasm in subarachnoid hemorrhage. *JNS* 2019. Accepted.

Olena Kleshchova, Timothy Gerald White, Kevin Kwan, Amrit Chilawal, Todd A Anderson, David J Langer. Resection of a Posterior Fossa Endodermal Cyst With Exoscopic Assistance: 2-Dimensional Operative Video, *Operative Neurosurgery*, Sept 2019.

Kevin Kwan, Julia Schneider, Jamie S. Ullman. Textbook: Decompressive craniectomy in the management of neurological emergencies. Chapter 12: Decompressive craniectomy: Long term outcome and ethical considerations. *Front neurol*. Sept 06 2019.

Silverstein J W, Rosenthal A, Kwan K, Wagner K. & Ellis J A. (March 17, 2020) Application of Multimodal Neuromonitoring in Posterior Inferior Cerebellar Artery Aneurysm Clippings: Review of Two Cases. *Cureus* 12(3): e7296. doi:10.7759/cureus.729

D'amico R, Khatrim D, Kwan K, Boockvar J, Langer D. Coronavirus Neurosurgical/ Head and Neck Drape to Prevent Aerosolization of Coronavirus Disease 2019 (COVID 19): the Lenox Hill Hospital / Northwell Health Solution. *World Neurosurgery*, Accepted 18 July 2020.

Silverstein J, Kwan K. Detection of compromised limb perfusion with neuromuscular junction testing, transcranial evoked potentials and somatosensory evoked potentials. Submitted. *Neurodiagnostic* May 2020. *JNS* In submission

How Common is Acute Pelvic Fixation Failure After Adult Spinal Surgery? A Single Center Study of 358 Patients. Paul Park, Varun Puvanesarajah, William Clifton, Kevin Kwan, Cole Morissette, Jaques Williams, Michael Fields, Eric Leung, Fthimmir Hassan, Peter Angevine, Christopher Mandigo, Joseph Lombardi, Zeeshan Sardar, Ronald Lehman, Lawrence Lenke

## **BOOK CHAPTERS**

Kevin Kwan, Jamie S. Ullman, Julia Schneider, Gregory W. J. Hawryluk, Annette Totten, Jamshid Ghajar. Decompressive Craniectomy. Chapter 15: Guidelines for the Management of Severe Traumatic Brain Injury: Recommendations from the 2017 Fourth Edition. 2017. NOVA.

Kevin Kwan, Julia Schneider, Michael Schulder. Northwell Bioskills Laboratory: A Surgical Training Ground for Neurosurgical Residency. Northwell Graduate Medical Education. Winter 2018.

Kevin Kwan MD, PGY4, Orseola Arapi BS, Julia R. Schneider BS, Mae Ward RN, Denise McDermott RN, Michelle Gribco RN, Rita Raio BA, C-TAGME, David Ledoux MD, Paul Wright MD. A Prospective Quality Improvement Study Utilizing a Checklist-based Approach to Improve Patient Pain Satisfaction Scores in Neurosurgery Patients: A Resident Spear-headed Investigation. Graduate Medical Education Newsletter. Spring 2019.

Kevin Kwan, Julia Schneider, Jamie Ullman. An Integrative Neuro-rehabilitation Approach. Second Edition. Springer Publishing. Chapter. In Submission. 2019.

Kevin Kwan, Julia Schneider, Ivo Peto, Amir Dehdashti. Vascular Challenges in Skull Base Surgery. 2020.

Katherine Wagner, MD; Julia Schneider, BS; Kevin Kwan, MD; Jamie S. Ullman, MD. Impact of Guidelines on the Management of Severe Traumatic Brain Injury. AANS newsletter. 2019.

Kwan K, Pena R, Ullman JS. Current role of decompressive craniectomy for the management of severe traumatic brain injury. Contemporary Neurosurgery 2020. In submission.

3rd edition of the Handbook of Spine Surgery. Adolescent Idiopathic Scoliosis. Kwan L, Lenke L. et al.

## **INVESTIGATOR INITIATED CLINICAL TRIALS**

Exploratory study of patients undergoing thoracic aortic surgery with resultant spinal cord injury due to spinal cord ischemia. IRB approved. Enrolling. Principal Investigator: Kevin Kwan