

Alexander K. Yu, MD, MSBE, MS

Vice Chair

Department of Neurosurgery

Allegheny Health Network

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Education

Doctor of Medicine

Saint Louis University, Saint Louis, MO

School of Medicine

May 2007

Master of Science

University of Miami, Coral Gables, FL

College of Engineering

Major: Biomedical Engineering

Transmission of Biosignals Utilizing TCP/IP

August 2003

Master of Science

University of Miami, Coral Gables, FL

School of Business

Major: Computer Information Systems

August 2003

Bachelor of Science

University of Miami, Coral Gables, FL

College of Arts and Sciences

Major: Biology; Minor: Chemistry, Physics

May 1999

Training

General Surgery Internship

Allegheny Health Network Department of General Surgery

Pittsburgh, PA

June 2008

Neurosurgery Residency

Allegheny Health Network Department of Neurosurgery

Pittsburgh, PA

June 2013

Employment

Information Systems Manager

University of Miami
Division of Student Affairs
July 2001 - June 2003

Instructor, MCAT, DAT, OAT courses

Kaplan, Inc.
St Louis
July 2003 - June 2007

Instructional Technical Advisor

Saint Louis University School of Medicine
Office of Curricular Affairs
July 2004 - June 2005

Teaching Assistant

Saint Louis University
Center for Anatomical Science and Education
July 2004 - June 2007

Consultant

Asian Pacific American Medical Student Association
July 2005 - June 2007

Attending Physician

Allegheny Health Network
Department of Neurosurgery
July 2013 - June 2020

Attending Neurosurgeon with physician privileges serving Allegheny General Hospital, West Penn Hospital, Forbes Hospital, Jefferson Hospital, Sewickley Valley Hospital, Somerset Hospital.

Serve as Director of Surgical Neuro-Oncology and Skull Base Surgery and Minimally Invasive Spine, Associate Program Director, Assistant Director of Cerebrovascular Neurosurgery and Adult Deformity Surgery

Unaffiliated Neurotrauma Consultant

National Football League
Neurotrauma Program
October 2015 - Present

Vice Chair

Allegheny Health Network
Department of Neurosurgery
July 2020 - Present

Attending Neurosurgeon with physician privileges serving Allegheny General Hospital, West Penn Hospital, Forbes Hospital, Jefferson Hospital, Sewickley Valley Hospital, Somerset Hospital.

Serve as Director of Surgical Neuro-Oncology and Skull Base Surgery and Minimally Invasive Spine, Associate Program Director, Assistant Director of Cerebrovascular Neurosurgery and Adult Deformity Surgery

Certification and Licensure

Commonwealth of Pennsylvania

Medical License - MT191075

July 2007 - June 2013

Advanced Trauma Life Support

Certification

July 2007 - Present

American Board of Neurological Surgery

Written Board Examination

May 2010

Commonwealth of Pennsylvania

Medical License - MD447866

January 2013 - Present

United States

Drug Enforcement Agency Registration

July 2013 - Present

American Board of Neurological Surgery

Oral Board Examination (Full Board Certification)

November 2018

Advanced Cardiac Life Support

Certification

April 2019 - Present

Honors and Awards

Off-Service Rotator, Rotator of the Year

Allegheny General Hospital, Department of Emergency Medicine, Pittsburgh, PA

May 2008

14th Annual Golden Apple Awards, Excellence in Medical Student Education

Drexel University, College of Medicine, Pittsburgh, PA

June 2010

Resident Research Day, Second Place

Allegheny General Hospital, Department of Neurosurgery, Pittsburgh, PA

June 2010

First Annual Keller Lectureship, Honorable Mention

University of Cincinnati, Mayfield Clinic, Pittsburgh, PA

April 2012

Resident Research Day, Second Place

Allegheny General Hospital, Department of Neurosurgery, Pittsburgh, PA

June 2012

Honors and Awards

Golden Apple Award, Excellence in Medical Student Education

Drexel University, College of Medicine, Pittsburgh, PA

June 2013

Residency, Attending Surgeon Teaching Award

West Penn Allegheny Health System, Department of Neurosurgery, Pittsburgh, PA

June 2014

Neurosurgery, Best Doctors

Pittsburgh Magazine, www.bestdoctors.com, Pittsburgh, PA

May 2019

Neurosurgery, Best Doctors

Pittsburgh Magazine, www.bestdoctors.com, Pittsburgh, PA

May 2020

Neurosurgery, Top Doctors

Castle Connolly, Top Doctors, Pittsburgh, PA

May 2022

Memberships and Offices in Professional Societies

American Medical Student Association (July 2003 - June 2007)

Missouri State Medical Association (July 2003 - June 2007)

American Medical Association, Student Member (July 2003 - June 2007)

American Association of Neurological Surgeons (July 2008 - Present)

Congress of Neurologic Surgeons (July 2008 - Present)

Pennsylvania Neurosurgical Society (July 2010 - Present)

Active (Start Date - Present) Professional Committee and Administrative Services

Conference Involvement

2018 Allegheny Health Network - Neurosciences Institute

Neuro-Oncology Grand Rounds - *Moderator*

Conference Involvement - National

2018 Pittsburgh Spine Summit

- *Co-Director*

Course Involvement - International

2018 Microscopic and Endoscopic Skull Base Surgery and Vascular Bypass Course

- *Director*

Course Involvement - National

2016 Purely Endoscopic Surgery of the Lumbar Spine

- *Lecturer*

Institutional

2015 Allegheny Health Network - Allegheny General Hospital

Ambulatory Physician Advisory Committee - *Member*

Active (Start Date - Present) Professional Committee and Administrative Services

Institutional

- 2015 Allegheny Health Network - Allegheny General Hospital
Inpatient Physician Advisory Committee - *Member*
- 2015 Allegheny Health Network - Department of Neurosurgery
Minimally Invasive Spine Neurosurgery - *Director*
- 2017 Allegheny Health Network - Allegheny General Hospital
Perioperative Executive Committee - *Member*
- 2018 Allegheny Health Network - Department of Neurosurgery
Residency Program - *Associate Director*
- 2019 Allegheny Health Network - Allegheny General Hospital
Medical Executive Committee - *Staff At-Large*
Neurologic Intensive Care Unit - *Surgical Director*
- 2019 Allegheny Health Network - Department of Neurosurgery
Adult Deformity Surgery - *Assistant Director*
Cerebrovascular Neurosurgery - *Assistant Director*
Skull Base Surgery - *Director*
Surgical Neuro-Oncology - *Director*
- 2019 Allegheny Health Network - Neuro-Oncology
Disease Site Leadership Team - *Neurosurgery Lead*
- 2020 Allegheny Health Network
Department of Neurosurgery - *Vice Chair*
- 2021 Allegheny Health Network - Allegheny General Hospital
Center for Surgical Arts - *Board Member*
- 2021 Allegheny Health Network - New Products Committee
- *Member*

Journal Involvement

- British Medical Journal - Manuscript Reviewer
- Clinical Neurology and Neurosurgery - Manuscript Reviewer
- Cureus - Manuscript Reviewer
- International Journal of Spine Surgery - Manuscript Reviewer
- Neurosurgery - Manuscript Reviewer
- Operative Neurosurgery - Manuscript Reviewer

Regional

- 2021 Highmark Health - Musculoskeletal Medical Policy Subcommittee
- *Member*
- 2022 Allegheny County Medical Society
Board of Directors - *Member*

Inactive Professional Committee and Administrative Services

Conference Involvement

- 2015 International Society for the Advancement of Spine Surgery
2015 Annual Meeting - *Abstract Reviewer*

Institutional

- 2015 Allegheny Health Network - Department of Neurosurgery
Skull Base and Cerebrovascular Neurosurgery - *Assistant Director*
- 2019 Allegheny Health Network
Oncology Institute Chairperson Search Committee - *Member*
Ophthalmology Chairman Search Committee - *Member*

Regional

- 2021 PA Med - Allegheny County
Alternate Delegate

Active Educational Activities

Subspecialty Fellowship

- 2020 Allegheny Health Network - Department of Neurosurgery
Complex Spine Fellowship (ABNS CAST accredited) - *Director*
Neuro-Oncology Fellowship (ABNS CAST accredited) - *Director*

Local

- 2018 Drexel University - College of Medicine
Medical Student Clinical Clerkship - *Director*
- 2017 Carnegie Mellon University - College of Engineering
Medical Devices - *Guest Lecturer*
- 2020 Carnegie Mellon - College of Engineering
Medical Device Design - *Clinical Advisor*

Institutional

- 2013 Allegheny Health Network - Pulmonary and Critical Care Medicine
Fellowship Lecture Series - *Lecturer*
Subarachnoid Hemorrhage
Intracranial Hemorrhage Management
- 2013 Allegheny Health Network - Neurosciences Intensive Care Unit Education
Nursing Lecture Series - *Lecturer*
- 2013 Allegheny Health Network - Department of General Surgery
Ground Rounds - *Lecturer*

Departmental

- 2013 Allegheny Health Network - Department of Neurosurgery
Residency Program Didactic Lectures - *Faculty*
Neurosurgery Jeopardy Board Review
Skull Base Anatomy Board Review

Active Educational Activities

Departmental

Residency Program Cadaveric Laboratory - *Faculty*
Open Microdiscectomy, Minimally Invasive Microdiscectomy
Purely Endoscopic Approaches to the Lumbar Spine
Thoracolumbar Pedicle Screw Fixation
Oblique, Lateral Approaches to the Lumbar Spine
Retrosigmoid Approach, Far Lateral Approach
Transpalpebral Approach
Middle Fossa Approach
Pineal Region Approach

Physician Assistant Didactic Lectures - *Faculty*
Cranial Nerve Anatomy
Brain Tumors

Courses - National

2017 Allegheny Health Network - Department of Neurosurgery
Walter Grand Endoscopy Course - *Instructor*

Pittsburgh Spine Summit - *Course Co-Director*

Courses - International

2018 Allegheny Health Network - Department of Neurosurgery
Microscopic and Endoscopic Skull Base Surgery and Vascular Bypass Lab - *Course Director*

Completed Educational Activities

Courses - National

2014 Allegheny Health Network - Department of Neurosurgery
Pittsburgh Spine Summit - *Instructor*

Courses - International

2013 Allegheny Health Network - Department of Neurosurgery
Microscopic and Endoscopic Skull Base Surgery and Vascular Bypass Course - *Instructor*

Clinical Activities

Rounds: Daily rounds with residents, medical students, nurses, consultants

Clinics: Neurosurgery clinics twice a week

Procedures: Neurosurgical operations three days a week

Trainees / Mentorship

Allegheny General Hospital - Complex Spine Enfolded Fellowship

Alejandro Castellvi, MD (July 2017 - June 2018)

Chen Xu, MD (July 2019 - June 2020)

Brandon Kujawski, MD (July 2020 - June 2021)

Daniel Myers, MD (July 2022 - June 2023)

Allegheny General Hospital - Neurosurgery Residency

Brandon Chew, MD (July 2013 - June 2015)

Abraham Sabersky, MD (July 2013 - June 2016)

Allegheny General Hospital - Neurosurgery Residency

Diana Jho, MD, MS (July 2013 - June 2017)
Derrick Dupre, MD (July 2013 - June 2018)
Alejandro Castellvi, MD (July 2013 - December 2018)
Raj Nangunoori, MD (July 2013 - June 2019)
Gordon Mao, MD (July 2013 - June 2020)
Bertram Richter, MD (July 2013 - June 2020)
Dunbar Alcindor, MD (July 2013 - June 2014)
Chen Xu, MD (July 2014 - June 2021)
Christopher Payne, MD (July 2014 - June 2021)
Brandon Kujawski, MD (July 2015 - June 2022)
Kristen Stabingas, MD (July 2015 - June 2022)
Rocco Dabecco, DO (July 2017 - June 2022)

Carnegie Mellon Institute of Technology - Master of Science

John Hao, MS (December 2018)
College of Engineering
Material Characterization and Selection for 3D-Printed Spine MedPhantom

Georgia College and State University - Doctor of Nursing Practice

Tara Orgon Stamper, DNP (May 2018)
School of Nursing
Education to Improve Patient Satisfaction and Outcomes in the Neurosurgical Patient.

Bibliography - Book

- 1 Jho DH, Nangunoori RK, Yu AK. "Intracranial Pressure". Emergency Neurology. *Pending*
- 2 Jho DH, Nangunoori RK, Yu AK. "Hydrocephalus and Shunt Evaluation". Emergency Neurology. *Pending*
- 3 Aziz KM, Froelich S, Bhatia S, Yu AK, Bricolo A, Hillman T, Sekula RF Jr. "Chapter 40 – Surgical Management of Petroclival Meningiomas". Schmidek and Sweet: Operative Neurosurgical Techniques, 6th Edition. Quinones-Hinojosa A. Philadelphia: Elsevier-Saunders, 2012
- 4 Aziz KM, Yu AK, Chen D, Sekula RF Jr. "Chapter 204 – Management of Cranial Nerve Injuries". Schmidek and Sweet: Operative Neurosurgical Techniques, 6th Edition. Quinones-Hinojosa A. Philadelphia: Elsevier-Saunders, 2012
- 5 Mao G, Yu A, Aziz, KM. "Tuberculum Sellae". Skull Base Surgery: Strategies. Jean. New York: Thieme, 2019
- 6 Swink IR, Jaffee S, Diehl D, Xu C, Carbone J, Yu AK, Cheng BC. "Cyclical Loading to Evaluate the Bone Implant Interface". Handbook of Spine Technology. Cheng B: Springer International Publishing, 2021
- 7 Cheng B, Yu A, Swink I, Whiting D, Averick S. "Recent Advances in PolyArylEtherKetones and Their In Vitro Evaluation for Hard Tissue Applications". Handbook of Spine Technology. Cheng B: Springer International Publishing, 2021

Bibliography - Book

- 8 Jaffee S, Swink I, Phillips B, Birgelen M, Yu A, Giannoukakis N, Cheng B, Webb S, Davis R, Welch W, Castellvi A. "Mechanobiology of the Intervertebral Disc and Treatments Working in Conjunction with the Human Anatomy". Handbook of Spine Technology. Cheng B: Springer, 2021

Bibliography - Journal

- 1 Cheng BC, Bellotte JB, Yu AK, Swidarski K, Whiting DM. Historical Overview and Rationale for Dynamic Fusion. *ArgoSpine News & Journal*. Jun 2010, Vol. 22-N2
- 2 * O'Neill BR, Yu AK, Tyler-Kabara EC. Prevalence of Tethered Spinal Cord in Infants with VACTERL. *Journal of Neurosurgery-Pediatrics*. 2010 Aug;6(2):177-82 . doi:10.3171/2010.5.peds09428
- 3 *Aziz K, Yu AK, Happ E. Minimally Invasive Eyelid Incision Fronto-Orbital Craniotomy Approach to the Anterior Cranial Fossa: Lessons to Learn in Fifty-Eight Cases. *Journal of Neurological Surgery, Part B: Skull Base*. 73(S 01) 1/2012. 10.1055/s-0032-1312049
- 4 *Dupre DA, Pu C, Yu A, Tomczyk N. Traumatic intradiploic epidermoid cyst manifest as scalp papule. *BMJ Case Reports*. 2015. 2015 Feb 16;2015 . 10.1136/bcr-2014-207968
- 5 * Yu AK, Siegfried CM, Chew BG, Hobbs JK, Sabersky AE, Jho DJ, Cook DJ, Bellotte JB, Whiting DM, Cheng BC. Biomechanics of Posterior Dynamic Fusion Systems in the Lumbar Spine: Implications for Stabilization with Improved Arthrodesis. *Clinical Spine Surgery*. 2012. 2016 Aug;29(7):E325-30 . doi:10.1097/bsd.0b013e31827588b1
- 6 *Shaikh N, Schramke C, Aziz K, Yu A, Jho D, Karlovits S, Fuhrer R, Pu C, Greenberg L, Ranjan T. EPID-14. Risk factor analysis and outcomes in patients with high grade gliomas (HGG) managed at Allegheny General Hospital (AGH) in Pittsburgh, PA. *Neuro-Oncology*. Volume 18, Issue suppl_6, 1 November 2016, Page vi58, . 10.1093/neuonc/now212.240
- 7 * Aldahak N, El Tantowy M, Dupre D, Yu A, Keller JT, Froelich S, Aziz KM. Drilling of the marginal tubercle to enhance exposure via mini pterional approach: An anatomical study and clinical series of 25 sphenoid wing meningiomas. *Surgical Neurology International*. 2016. 2016 Dec 12;7(Suppl 40):S989-S994. . doi: 10.4103/2152-7806.195575
- 8 * Christopher Payne, Ali Batouli, Kristen Stabingas, et al.. A Pediatric Tumor Found Frequently in the Adult Population: A Case of Anaplastic Astroblastoma in an Elderly Patient and Review of the Literature. *Case Reports in Neurological Medicine*. 2017. 2017:1607915 . 10.1155/2017/1607915
- 9 * Wood MD, Tihan T, Perry AJ, Chacko G, Turner C, Pu C, Payne C, Yu A, Bannykh S, Solomon DA. Multimodal Molecular Analysis of Astroblastoma Enables Reclassification of Most Cases Into a More Specific Diagnostic Entity. *Brain Pathology*. 2018. 2018 Mar;28(2):192-202 . 10.1111/bpa.12561
- 10 *Ranjan T, Howard CM, Valluri J, Yu A, Aziz K, Jho D, Julien T, Leonardo J, Alberico A, Cortese A, Denning K, Claudio PP. Prospective analysis of cancer stem cell drug response assay for glioblastoma patients. *Journal of Clinical Oncology*. 36(15_suppl):2057-2057 5/2018. 10.1200/JCO.2018.36.15_suppl.2057
- 11 *Hynes RA, Woods KR, Yu AK, Billys JB. 200. The oblique lumbar interbody fusion (OLIF), including the L5S1 level: early postoperative safety profile in a multicenter review. *The Spine Journal*. Volume 18, issue 8, supplement , s98-s99 9/28/2018. 10.1016/j.spinee.2018.06.465
- 12 * Hao J, Nangunoori R, Wu YY, Rajaraman M, Cook D, Yu A, Cheng B and Shimada K. Material characterization and selection for 3D-printed spine models. *3D Printing in Medicine*. 2018. 2018 Oct 19;4(1):8 . 10.1186/s41205-018-0032-9

Bibliography - Journal

- 13 *Ranjan T, Howard CM, Valluri J, Yu A, Aziz K, Jho D, Julien T, Leonardo J, Alberico A, Cortese A, Denning K, Claudio PP. STEM-01. Prospective Analysis Of Cancer Stem Cell Drug Response Assay For Glioblastoma Patients. *Neuro-Oncology*. Volume 20, Issue suppl_6, 1 November 2018, Page vi243, 11/2018. 10.1093/neuonc/noy148.1008
- 14 * Cebral JR, Detmer F, Chung BJ, Choque-Velasquez J, Rezai B, Lehto H, Tulamo R, Hernesniemi J, Niemela M, Yu A, Williamsom R, Aziz K, Sakur S, Amin-Hanjani S, Charbel F, Tobe Y, Robertson A, Frosen J. Local Hemodynamic Conditions Associate with Focal Changes in the Intracranial Aneurysm Wall. *American Journal or Neuroradiology*. 2019 Mar;40(3):510-516 2/7/2019. 10.3174/ajnr.A5970
- 15 *Payne C, Gigliotti M, Castellvi A, Yu A. A rare case of cystic hygroma in the epidural space resulting in multilevel spinal cord compression. *BMJ Case Reports*. 2019 Aug 28;12(8):e230326 8/28/2019. doi:10.1136/bcr-2019-230326
- 16 *Myers D, Mao G, Yu AK, Whiting D. Complications of Robotic Spine Surgery. *Neurosurgery*. 66(Supplement_1) 8/2019. 10.1093/neuros/nyz310_118
- 17 * Cebral JR, Detmer F, Chung BJ, Choque-Velasquez J, Rezai B, Lehto H, Tulamo R, Hernesniemi J, Niemela M, Yu A, Williamsom R, Aziz K, Sakur S, Amin-Hanjani S, Charbel F, Tobe Y, Robertson A, Frosen J. Calcification in human intracranial aneurysms is highly prevalent and displays both atherosclerotic and non-atherosclerotic types. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 2019 Oct;39(10):2157-2167 8/29/2019. 10.1161/atvbaha.119.312922
- 18 *Ranjan T, Yu A, Wegner R, Karlovits S, Xu L, Hameed M. INNV-39. The Impact Of Multidisciplinary Management On The Overall Survival Of Glioblastoma And Anaplastic Glioma Patients In The Era Of Precision Medicine-A Community Physician's Experience And Dilemma. *Neuro-Oncology*. 21(Supplement_6):vi244-vi245 11/2019. doi: 10.1093/neuonc/noz175.578
- 19 *Ranjan T, Howard C, Yu A, Xu L, Aziz K, Jho D, Leonardo J, Hameed M, Karlovits S, Wegner R, Fuhrer R, Lirette S, Denning K, Valluri J, Claudio PP. STEM-13. Cancer Stem Cell Cytotoxicity Assay-Guided Treatment In Recurrent Glioblastoma And Progressive Anaplastic Glioma. *Neuro-Oncology*. 21(Supplement_6):vi244-vi245 . doi: 10.1093/neuonc/noz175.987
- 20 *Wegner R, White R, Abel S, Yu A, Xu L, Karlovits S, Ranjan T. EPID-18. National trends in the use of targeted and immunotherapy in the up front management of glioblastoma. *Neuro-Oncology*. 21(Supplement_6):vi244-vi245 11/2019. doi: 10.1093/neuonc/noz175.318
- 21 *Wegner R, Abel S, Ranjan T, Williamson R, Yu A, Xu L, Karlovits S. RTHP-24. Trends In The Up Front Use Of Stereotactic Radiosurgery For Glioblastoma. *Neuro-Oncology*. 21(Supplement_6):vi244-vi245 . 10.1093/neuonc/noz175.895
- 22 *Dabecco R, Yu A, Ranjan T, Xu L, Aziz K. SURG-25. Laser Interstitial Thermal Therapy (Litt) For Intracranial Lesions: A Single- Institutional Series, Outcomes And Review Of The Literature. *Neuro-Oncology*. 21(Supplement_6):vi244-vi245 . 10.1093/neuonc/noz175.1025
- 23 *Salimi Ashkezari SF, Mut F, Chung BJ, Yu AK, Stapleton CJ, See AP, Amin-Hanjani S, Charbel FT, Rezai Jahromi B, Niemelä M, Frösen J, Maiti S, Robertson AM, Cebral JR. Hemodynamics in aneurysm blebs with different wall characteristics. *Journal of NeuroInterventional Surgery*. 2020:neurintsurg-2020-016601 . doi:10.1136/neurintsurg-2020-016601
- 24 *Zha X, Wehbe L, Sciabassi R, Mace Z, Liang Y, Yu A, Leonardo J, Cheng B, Hillman T, Chen D, Riviere C. A Deep Learning Model for Automated Classification of Intraoperative Continuous EMG. *IEEE Transactions on Medical Robotics and Bionics* 12/30/2020. 10.1109/TMRB.2020.3048255

Bibliography - Journal

- 25 *Kusyk D, Mao G, Yu AK. Case Series of Skull Base Meningioma Resections in the Octogenarian Population. Journal of Neurological Surgery, Part B: Skull Base 81. 2020; 81(S 01): S1-S272 2/2020. 10.1055/s-0040-1702491
- 26 *Dabecco RM, Nangunoori R, Yu A. Endoscopic Transnasal Odontoidectomy: A Single-Center's Experience and Approach to Pathology of the Craniocervical Junction. Journal of Neurological Surgery, Part B: Skull Base 81. 2020; 81(S 01): S1-S272 2/5/20. 10.1055/s-0040-1702449
- 27 *Zha X, Wehbe L, Sciabassi RJ, Mace Z, Liang YV, Hillman TA, Chen DA, Yu A, Leonardo J, Cheng BC, Riviere CN. Toward automated interpretation of electromyography for intraoperative neurophysiological monitoring using machine learning. Carnegie Mellon Robotics Institute Technical Report CMU-RI-TR-20-02
- 28 *Wegner RE, Abel S, Hasan S, Horne ZD, Verma V, Ranjan T, Yu A, Xu L, Williamson RW, Karlovits SM. National Trends in the Use of Stereotactic Radiosurgery for Glioblastoma. Applied Rad Onc. 9(1): 28-34
- 29 *Ranjan T, Howard CM, Yu A, Xu L, Aziz K, Jho D, Leonardo J, Hameed MA, Karlovits SM, Wegner RE, Fuhrer R, Lirette ST, Denning KL, Valluri J, & Claudio PP. Cancer Stem Cell Chemotherapeutics Assay for Prospective Treatment of Recurrent Glioblastoma and Progressive Anaplastic Glioma: A Single-Institution Case Series. Translational Oncology. 2020 Apr;13(4):100755 3/17/2020. 10.1016/j.tranon.2020.100755
- 30 *Mao G, Gigliotti MJ, Myers D, Yu A, Whiting D. Single-Surgeon Direct Comparison of O-arm Neuronavigation versus Mazor X Robotic-Guided Posterior Spinal Instrumentation. World Neurosurgery. 2020 May;137:e278-e285 1/31/2020. 10.1016/j.wneu.2020.01.175
- 31 *Payne C, Gigliotti MJ, Castellvi A, Yu A, Lee PS. Traumatic C7-T1 spondyloptosis without neurological injury: Case review and surgical management. Interdisciplinary Neurosurgery. Volume 20, June 2020, 100678 6/2020. 10.1016/j.inat.2020.100678
- 32 *Wegner RE, Xu L, Horne Z, Yu A, Goss M, Liang Y, Sohn J, Karlovits SM. Predictors of Treatment Interruption During Frameless Gamma Knife Icon Stereotactic Radiosurgery. Advances in Radiation Oncology. VOLUME 5, ISSUE 6, P1152-1157, NOVEMBER 01, 2020 6/30/2020. 10.1016/j.adro.2020.06.025
- 33 *Wegner RE, Horne ZD, Xu L, Yu A, Goss M, Liang Y, Sohn J, Colonias A, Fuhrer R, Karlovits SM. Adaptation of a Gamma Knife Icon stereotactic radiosurgery program in the face of the COVID-19 pandemic. Journal of Radiosurgery and SBRT. 2020;7(1):5-10. 7/2020
- 34 *Wegner RE, Bergin J, Xu L, Yu A, Horne ZD, Krivak T, Karlovits SM.. Radiotherapeutic treatment of brain metastases in patients with gynecologic malignancies: A nationwide analysis. Journal of Radiosurgery and SBRT. 7(1):39-46. 7/2020
- 35 *Salimi Ashkezari SF, Detmer FJ, Mut F, Chung BJ, Yu AK, Stapleton CJ, See AP, Amin-Hanjani S, Charbel FT, Rezai Jahromi B, Niemelä M, Frösen J, Zhou J, Maiti S, Robertson A, Czebral JR. Blebs in intracranial aneurysms: prevalence and general characteristics. Journal of neurointerventional surgery 8/29/20. 10.1136/neurintsurg-2020-016274
- 36 *Young M, Esplin N, Xu C, Yu A, Cerejo R, Arshad H. AN UNUSUAL SUSPECT - A CASE OF DELAYED CEREBRAL INFARCTS FROM VASOSPASM AFTER A RUPTURED ATHERIOVENOUS MALFORMATION. Chest. VOLUME 158, ISSUE 4, SUPPLEMENT , A727 . 10.1016/j.chest.2020.08.682

Bibliography - Journal

- 37 *Coric D, Roybal RR; Grubb M, Rossi V, Yu AK, Swink IR, Long J, Cheng, BC Inzana JA. Bidirectional Expandable Technology for Transforaminal or Posterior Lumbar Interbody Fusion: A Retrospective Analysis of Safety and Performance. *International Journal of Spine Surgery*
- 38 *Wegner R, Horne Z, Xu L, Yu A, Goss M, Liang Y, Sohn J, Colonias A, Fuhrer R, Karlovits S. COVID-01. ADAPTATION OF A GAMMA KNIFE ICON STEREOTACTIC RADIOSURGERY PROGRAM IN THE FACE OF A GLOBAL PANDEMIC. *Neuro-Oncology*. 2020;22(Supplement_2):ii21-ii21 . doi:10.1093/neuonc/noaa215.086
- 39 *Matani H, Abel S, Xu L, Yu A, Ranjan T, Karlovits S, Wegner R. RADT-40. TRENDS IN THE USE OF RADIATION FOR MENINGIOMA ACROSS THE UNITED STATES. *Neuro-Oncology*. 2020;22(Supplement_2):ii190-ii190 . doi:10.1093/neuonc/noaa215.793
- 40 *Wegner R, Horne Z, Abel S, Xu L, Yu A, Ranjan T, Karlovits S. RADT-32. NATIONAL TRENDS IN RADIATION DOSE FOR LOW GRADE GLIOMAS. *Neuro-Oncology*. 2020;22(Supplement_2):ii188-ii188 . doi:10.1093/neuonc/noaa215.785
- 41 *Jha R, Ranjan T, Yu A, Wegner R, Karlovits S. NCOG-66. IMPLICATION OF D-DIMER IN THE DETECTION OF DEEP VENOUS THROMBOSIS (DVT) /PULMONARY EMBOLISM (PE) IN HIGH GRADE GLIOMA PATIENTS WITHOUT CLASSIC SYMPTOMS OF DVT/PE ON OR OFF AVASTIN TREATMENT. *Neuro-Oncology*. 2020;22(Supplement_2):ii144-ii144 . doi:10.1093/neuonc/noaa215.604
- 42 *Pier Paolo C, Ranjan T, Howard C, Yu A, Xu L, Aziz K, Jho D, Leonardo J, Denning K, Valluri J. STEM-21. CLINICAL RELEVANCE OF CANCER STEM CELL CYTOTOXICITY ASSAY IN GUIDING TREATMENT FOR GLIOBLASTOMA. *Neuro-Oncology*. 2020;22(Supplement_2):ii200-ii200 . doi:10.1093/neuonc/noaa215.838
- 43 *Abel S, Karlovits SM, Yu A, Renz P, Xu L, Wegner RE. Patterns Of Care In The Non-Operative Management Of Elderly Patients With NSCLC Brain Metastases. *International Journal of Radiation Oncology, Biology and Physics*. VOLUME 108, ISSUE 3, SUPPLEMENT , E700, . doi.org/10.1016/j.ijrobp.2020.07.054
- 44 *Kusyk DM, Mao G, Dabecco R, Yu AK. Case Series of Skull Base Meningioma Resection in the Octogenarian Population. *J Neurol Surg B*. 00:1–6 2021
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Research Protocols

Active - Co-Investigator - NIH

Improving Cerebral Aneurysm Risk Assessment Through Understanding Wall Vulnerability and Failure Modes

Active - Co-Investigator

Immunomodulation to Prevent the Progression of Diabetes to Diabetic Neuropathy

A Clinical Study to Assess the Safety and Effectiveness of the Premia Spine TOPSTTM System

ENRICH: A Multi-center, Randomized, Clinical Trial Comparing Standard Medical Management to Early Surgical Hematoma Evacuation Using Minimally Invasive Parafascicular Surgery (MIPS) in the Treatment of Intracerebral Hemorrhage (ICH)

Standard Chemotherapy versus Chemotherapy Chosen by Cancer Stem Cell Chemosensitivity Testing in the Management of Patients with Recurrent Glioblastoma Multiforme (GBM)

Comparison of Clinical Outcomes following ACDF with Instrumentation using Structural Allograft VS
Tritanium C

New Polymer Implants for Hard Tissue Applications

Active - Investigator

A prospective, randomized, controlled, single-blind, dose-finding, multi-center, parallel group study of the safety and efficacy of KUR-113 Bone Graft (TGplPTH1-34 in fibrin) versus local autograft for the treatment of patients undergoing single-level transforaminal lumbar interbody fusion (the STRUCTURE study).

Clinical Utility of Intraoperative Electrophysiology Neuromonitoring in Lumbar Spine Surgery

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Inactive - Co-Investigator

A Multicenter Study of 5-Aminolevulinic Acid (5-ALA) to Enhance Visualization of Malignant Tumor in Patients with Newly Diagnosed or Recurrent Malignant Gliomas: A Safety, Histopathology, and Correlative Biomarker Study

A Phase 2b/3, Double-blind, Randomized, Placebo-Controlled, Multicenter Study to Assess the Efficacy and Safety of VX-210 in Subjects With Acute Traumatic Cervical Spinal Cord Injury

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PHASE 3, MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL-GROUP, EFFICACY AND SAFETY STUDY COMPARING EG-1962 TO STANDARD OF CARE ORAL NIMODIPINE IN ADULTS WITH ANEURYSMAL SUBARACHNOID HEMORRHAGE

(OLIF25™ /OLIF51™ Study): A Multi-Center, Prospective, Observational Study to Assess Outcomes for Patients Treated for Lumbar Spinal Conditions Using an OLIF25™ and/or OLIF51™ Approach

Education to Improve Patient Satisfaction and Outcomes in the Neurosurgical Patient

A PHASE 2b, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY TO EVALUATE THE SAFETY AND EFFICACY OF STAPHYLOCOCCUS AUREUS 4-ANTIGEN VACCINE (SA4Ag) IN ADULTS UNDERGOING ELECTIVE OPEN POSTERIOR SPINAL FUSION PROCEDURES WITH MULTILEVEL INSTRUMENTATION

Assessment of Structure and Function of Human Aneurysm Tissue and Link to Hemodynamic Loading

Inactive - Investigator

A Retrospective Review of Outcomes Following Brainstem Stroke

A PROSPECTIVE MULTI-CENTER EVALUATION OF A HYDRAULIC EXPANDABLE TLIF CAGE FOR THE TREATMENT OF DEGENERATIVE DISC DISEASE OF THE LUMBAR SPINE

Clinical Evaluation of Fortilink TETRAfuse Interbody Fusion Device in Subjects with Degenerative Disc Disease (FORTE)

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