

Majid Khan, Ph.D.

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[LinkedIn](#) | [ResearchGate](#) | [Google Scholar](#)

EDUCATION

Ph.D., University of Nevada, Reno (UNR) Graduate School Reno, NV	2023
<i>Dissertation: Advancing Clinical Practices and Patient Outcomes Through Computational Analyses in Medicine: A Focus on SARS-CoV-2 Epidemiology, COVID-19, and Long-COVID Neuropathogenesis</i>	
M.D. Training, UNR School of Medicine (MD/PhD Program) Reno, NV	2013 - 2024
<i>Co-leader, BS-MD Engagement Project (Participation in Scholarly Concentration Project in Medical Education) – Integrated and Improved Clinical Practice Technologies</i>	
B.S. in Biochemistry and Molecular Biology, University of Nevada, Reno Reno, NV	2018
<i>BS-MD Program Thesis: ZIKV in Controlling Growth of Neuroblastoma Stem Cells: Use of ZIKV for Targeted Immunotherapy of Neuroblastoma</i>	
A.S., Truckee Meadows Community College Reno, NV	2016

CERTIFICATIONS AND LICENSURES

AI in Healthcare Specialization w/ Capstone (Stanford)	In Progress
Machine Learning (Stanford, DeepLearning AI)	In Progress
Python for Everybody Specialization (Univeristy of Michigan)	In Progress
BLS	Active until 06/01/2025
BLSO	Active until 06/30/2026
USMLE Step 1	02/24/2022

HONORS AND AWARDS

<u>Graduate School</u>	
Mack, Ernest W. M.D. Scholarship	2024
For academic excellence and financial need	
Dean's Benevolence Endowment Award	2024
For academic excellence and financial need	
FY 2024 Nonprofit Security Grant from The United States Department of Homeland Security (DHS) and Federal Emergency Management Agency (FEMA)	2024
Awardee of \$450,000 to fund security improvements of 2 mosques and 1 cemetery	2023
Wiener Biomedical Grad Scholar	
For academic excellence and financial need	2023
Mountain West-Clinical Translational Research (MW-CTR) Pilot Grant	
Awarded \$150,000 to fund project to investigate long-COVID neurological sequelae, fMRI changes and identification of serum protein biomarkers.	2023
FY 2023 Nonprofit Security Grant from The United States Department of Homeland Security (DHS) and Federal Emergency Management Agency (FEMA)	
Awardee of \$403,000 to fund security improvements of 2 mosques and 1 cemetery	
George H. Bourget Scholarship	2023
For academic excellence and financial need	
The Doyle Foundation Scholarship	2023
For academic excellence and financial need	
Crain Biomedical Research Scholarship	2021
For graduate academic excellence and financial need	
Top 10 Featured Poster, CNS Annual Meeting 2021	2021
For performance in <i>neurosurgery</i> clinical research (Stepdown project)	
Top 5 Candidate, AANS Young Student Neurosurgeon Committee	2021
Nominated for Medical Student Representative by Dr. Karsy	

Summer Research Stipend Award, UNR Med Office of Medical Research For performance of clinical research proposal in <i>neurosurgery</i>	2020
Research Stipend Award, UNR Med Office of Medical Research For performance of research proposal in <i>medical education</i>	2020
Top 50 Selected Abstract, ACS Virtual Clinical Congress 2020 For performance in <i>neurosurgery clinical research</i>	2020
The Doyle Foundation Scholarship For academic excellence and financial need	2020
Robert H. Case Memorial Scholarship	2019
Dick Joseph Memorial Scholarship	2019
UNR Med Annual Medical Student Research Day Award 2 nd place for best overall research poster	2019
NV INBRE Pilot Grant - National Institute of General Medicine Sciences \$10,000 research stipend for proposal: "ZIKV in Controlling Growth of Neuroblastoma Stem Cells" (GM103440)	2018
PathMaker Summer Research Program (U of U/HCI) Research Stipend \$5000 research stipend for proposal: "Knockout of hypoxia induced factor 1a in meningioma and glioma cell lines via short hairpin RNA interference and the CRISPR-Cas9 system"	2017

Undergraduate

Dean's List	2016 - 2018
Asian American Pacific Islander Alumni Association Scholarship For performance in community service and leadership	2018
NV INBRE Pilot Grant, National Institute of General Medical Sciences	2017
Young Alumni Chapter Scholarship	2017
Rob Robertson Pre-Medical Scholarship	2016 - 2018
Sherman T. Renewable Scholarship	2016 - 2018
PathMaker Summer Research Program Scholar	2017

CLINICAL EXPERIENCE

Neurosurgery Clinical Rotation, Department of Neurosurgery University of Utah <ul style="list-style-type: none"> Acquired hands-on experience in neurosurgery by assisting residents in various responsibilities including patient preparation for surgery and post-operative care. Participated in over 500 hours of rounds, OR, and clinic time, gaining exposure to patient encounters in the Neuro Critical Care Unit (NCCU), ORs, and clinic across multiple sites. Undertook clinical research opportunities with numerous residents and attendings, fostering collaborative relations and enhancing knowledge in the field. Employing data analysis and innovative medical technologies to enhance patient care in neurosurgery, neuro-oncology, and ophthalmology. Published 14 clinical research works: 17 peer-reviewed papers (5 as first-author, 2 as second-author) 2 book chapters (1 as first-author) 30 projects/abstracts accepted at conferences nationwide, 16 of the 30 as presenting/first author. 	2017 - 2024
Student Provider, Student Outreach Clinic UNR Med <ul style="list-style-type: none"> Delivered comprehensive primary care services to uninsured patients, formulating assessments and plans, and recording notes in health records. Collaborated with fellow medical and undergraduate students to foster a learning environment and improving clinical skills. Committed 550+ hours over 4 years (16 hours/month for 4 years) 	2019 - 2024
Preceptorship in Internal Medicine with Dr. Lorenzen Reno NV <ul style="list-style-type: none"> Obtained patient history and performed physical exams, gaining insights into patient management. Discussed clinical cases with attending, enhancing diagnostic skills and medical knowledge. 	2020
Rural Clinical Rotation, BS-MD program Elko, NV	2018

- Acquired experience in a variety of clinical settings including family medicine, psychiatry, pediatrics, and internal medicine, strengthening adaptability skills.
 - Engaged in 120 hours of patient encounters, gaining a holistic understanding of rural healthcare and diversity in patient populations and cultures.
- Student Social Worker, Student Outreach Clinic Project Upstream | UNR Med 2016 - 2018
- Conducted patient inquiry surveys for social determinants of health, with a focus on long-term data acquisition.
 - Addressed social-work related resource acquisition, providing essential support for new patients.

TEACHING EXPERIENCE

- High School, Undergraduate, and Medical Student Mentor 2019 - Current
- Formal mentor to 31 students
 - Longitudinal mentorship with advice and guidance, involving pre-medical college courses/planning, MCAT prep, medical school applications, personal statement feedback, medical school tutoring, USMLE Step 1 prep, research opportunities and providing networking connections for more mentorship.
- Peer Supplemental Instructor 2019 - 2021
- Led peer-to-peer review sessions for concurrent and underclass medical peers in Anatomy Lab (Neuro, MSK, Radiology), fostering an engaging learning environment.
 - 6 hours/semester
- Math, Science, and Anatomy Tutor | Truckee Meadows Community College 2015 - 2017
- Provided tailored academic support to high school and college students, including students with disabilities, enhancing their understanding of various subjects.
 - Engaged in 2000+ hours of group and one-on-one tutoring, promoting academic success among students. (20 hours/week for 2 years)

OTHER WORK EXPERIENCE

- Specialist and Genius Bar Technician, Apple | Salt Lake City, UT & Reno, NV 2017 - 2019
- Assisted customers by identifying their needs and providing innovative solutions related to Apple technology and systems.
 - Analyzed and performed repairs, demonstrating problem-solving skills and technical expertise.

LEADERSHIP EXPERIENCE

- Founder and President, American Association of Neurological Surgeons Chapter | UNR Med 2020 - 2024
- Founded the chapter, recruiting students and assigning leadership roles, and fostering relationships with the University of Utah Med AANS chapter and Department of Neurosurgery.
 - Currently working on the development of the chapter, distribution of opportunities, and hosting events, providing students with unique exposure and opportunities.
- Leader, Neurosurgery/Neurology Student Interest Group | UNR Med 2020 - 2021
- Organized informational and educational sessions, providing opportunities for medical students to interact with local neurologists and neurosurgeons and explore career options.
- Advisor, MAPS/SNMA | UNR Med 2019 - 2024
- Played a key role in the re-establishment and development of the student chapter, overseeing undergraduate MAPS leadership and collaborating with UNR College of Science.
 - Aided in forming the student charter, budget, and application for national recognition by the SNMA, serving approximately 75 underrepresented pre-medical students with resources, events, and information pertaining to medical school and admissions.
- Chairman of the Board of Directors | UNR Med Student Outreach Clinic 2019 - 2021
- Acted as the primary point of contact for all volunteer students and board members, preparing and conducting elections for leadership positions.
 - Addressed concerns and implemented solutions promptly, maintaining open communication with multiple physicians, admins, and faculty.

- Prepared and led monthly board meetings, fostering collaborative decision-making and effective communication.

EXTRACURRICULAR EXPERIENCE AND SERVICE

Member, Student Outreach & Recruitment Committee UNR Med	2019- 2024
<ul style="list-style-type: none"> • Participated in educational outreach activities, including campus tours, Second Look recruitment, and mentoring incoming students, contributing to the college's positive public image. 	
Member, Community Faculty Student and Resident Liaison Committee UNR Med	2019 - 2024
<ul style="list-style-type: none"> • Participated in planning annual community faculty appreciation events, recruited new student members, and created appreciation postcards for community faculty, fostering a supportive academic environment. 	
Co-Coordinator, BS-MD Engagement Project UNR BS-MD Program	2019 - 2024
<ul style="list-style-type: none"> • Assisted in the development of activities for undergraduate BS-MD students to stimulate engagement and increase exposure to the medical field. • Currently leading three team projects to implement activities for the next academic year, also assisted proposal write-up for attainment of funding for the project. 	
Mentor, MEDFIT Orientation UNR Med	2020
<ul style="list-style-type: none"> • Guided and led a group of students through the orientation process, providing support and advice, and assisting faculty. 	
Volunteer Teacher, Islamic Sunday School Salt Lake City, UT & Reno, NV	2018 - 2020
<ul style="list-style-type: none"> • Taught and mentored students K-12, responsible for class instruction, supervision, and fostering a positive learning environment. • Acted as a host and liaison during interfaith events, promoting understanding and respect among diverse religious communities. 	

RESEARCH EXPERIENCE

Graduate Research Assistant, Dr. Subhash Verma University of Nevada Department of Microbiology & Immunology	2022 - 2024
<u>Various projects</u>	
<ul style="list-style-type: none"> • Engaged in diverse research projects, including Next Generation RNA-Sequencing of SARS-CoV-2 human subject samples for differential gene expression and cellular and viral pathways analysis, with an additional focus on herpesvirus reactivation due to SARS-CoV-2 (OC43) infection in herpesvirus cell lines. • Participated in metagenomic analysis for identifying co-occurring respiratory pathogens and worked with UNR chemical engineering to assess SARS-CoV-2 variants through wastewater analysis and sequencing. • Spearheaded computational research on SARS-CoV-2, focusing on data-driven analyses and modeling to understand viral mechanisms and impacts on COVID-19 and long-COVID patients. 	
Graduate Research Assistant, Dr. Yumei Feng-Earley University of Nevada Department of Cellular and Molecular Pharmacology & Physiology	2021- 2022
<u>Various projects</u>	
<ul style="list-style-type: none"> • Participated in various projects including in-vivo physiology experiments, stereotaxic neurosurgery in mice, and the study of ARC-TH neurons' role in blood pressure regulation and hypertension development. • Conducted in-vitro applications of methods (RNA Scope, Western Blot, & Immunofluorescence Assay) in mice brain dissections and SHSY-5Y cell cultures. 	
Co-Investigator, Dr. Michael Karsy University of Utah Department of Neurosurgery	2019 - 2024
<u>Various projects</u>	
<ul style="list-style-type: none"> • Conducted a variety of clinical research projects related to neurosurgery, involving big-data review, data analysis and interpretation, manuscript and funding proposal write-up. • Contributed to projects that included patient chart data review, summarizing findings, and manuscript write-up. 	
Co-investigator, Dr. Sarah Menacho University of Utah Department of Neurosurgery	2020 - 2024

Devastating Postoperative Bowel Complications after Neurosurgical Procedures: Case Series and Literature Review

- Conducted clinical case report including literature review in collaboration with residents, involving retrospective patient data and chart review, manuscript write-up, peer review editing, and submission of abstracts.
- Collaborated with the department to attain research projects for students at UNR Med for disbursement.

Co-investigator, Dr. Arshad Khanani | Sierra Eye Associates

2020 - 2024

Various projects

- Engaged in various clinical research projects related to ophthalmology, including literature reviews, compilation of clinical trial data, and manuscript preparation.
- Participated in reporting clinical trials, including reviewing clinical trial data and understanding protocols, developing tables and figures, and manuscript writing.

Co-Investigator, Dr. Rajesh Rangaswamy | UNR Med Department of Radiology

2020 - 2023

Comparison of CT-ASPECTS vs. current standard-of-care postoperative imaging

- Contributed to a neuro-interventional radiology related project, undertaking preliminary data analysis on patient imaging data and developing methods for future studies.

Co-Investigator, Dr. Yagmur Muftuoglu | UCLA Department of Neurosurgery

2020 - 2024

Various projects

- Participated in diverse clinical research projects, including case report studies, which involved examining patient chart data, summarizing findings, generating figures, and manuscript writing.

Co-Investigator, Dr. Subhash Verma | Department of Microbiology and Immunology

2017 - 2019

Various projects

- Led and assisted various basic science wet-lab cancer research projects, including a Zika Virus project, which involved a range of techniques such as BSL-2 lab techniques, virus and cancer cell culture, western blot, PCR, FISH, experimental design, figure preparation and manuscript thesis writing.

Student Researcher, Dr. Randy Jensen; Dr. Dave Gillespie | Huntsman Cancer Institute

2017

Knockout of hypoxia induced factor 1 α in meningioma and glioma cell lines via short hairpin RNA interference and the CRISPR-Cas9 system.

- Engaged in a summer-long research training program encompassing laboratory training and wet-lab cancer research, including working with mice for tissue biopsy, BSL-2 lab techniques, virus and cancer cell culture, western blot, PCR, RNA-seq, and figure preparation with a poster.

PRESENTATIONS

M. Khan, BS; S. Yost, BS; S. Yu, BS; C. Cutler, BS; J. C. Henson, BS; M. A. Azab, MD; S. Colby, MD; M. Karsy, MD, PhD. *Evaluating Pituitary Adenomas Using National Research Databases: Systematic Review of The Quality of Reporting Based on The STROBE Scale.*

Presenting author of an electronic poster presentation at the CNS 2023 Annual Meeting, Virtual. 2023

M. C. Findlay, BS; M. T. Bounajem, MD; R. B. Kim, MD, MS; J. C. Henson, MD; M. A. Azab, MS; C. B. Cutler, BS; **M. Khan, PhD**; B. Cameron, BS; K. Budohoski, MD, PhD; R. Rennert, MD; W. T. Couldwell, MD, PhD. *Microsurgical Treatment of Ruptured and Unruptured Distal Basilar Artery Aneurysms via the Subtemporal Approach: A 20-Year Case Series.*

Presenting author of an electronic poster presentation at the CNS 2023 Annual Meeting, Virtual. 2023

S. Bauer, BS; M. Findlay, BS; **M. Khan, BS**; H. Alexander, MD; B. Lucke-Wold, MD, PhD; F. Hamrick, MD; J. Hunsaker, BS; M. Karsy, MD, PhD. *Anterior Skull Base Outcomes and Complications: A Propensity Score Matched Evaluation of Age and Frailty as Measured by mFI-5 from the ACS-NSQIP Database*
Accepted for poster presentation by S. Bauer at NASBS. 2023

Karol P Budohoski, MD, PhD. *Factors Associated with Hearing Outcomes After A Middle Fossa Approach In 131 Consecutive Patients with Vestibular Schwannomas*

Accepted for poster presentation by K. P. Budohoski at NASBS. 2023

E. R. Dioso, BS; A. S. Carter, BS; **M. Khan, BS**; M. Karsy, MD, PhD, MSc. *The Impact of Ruralty on Treatment And Outcomes Among Adult Patients with Sinonasal Malignancies in Utah.*

Accepted for poster presentation by E. R. Dioso at NASBS. 2023

E. R. Dioso, BS; R. C. Rennert, MD; **M. Khan, BS**; S. Z. Bauer, BS; C. B. Cutler, BS; M. Karsy, MD, PhD, MSc; W. T. Couldwell, MD, PhD. *Far Lateral Approach to the Ventrolateral Skull Base: Case Series.*

- Accepted for poster presentation by E. R. Dioso at NASBS. 2023
- M. C Findlay, BS; S. Bauer, BS; **M. Khan, BS**; M. Karsy, MD, PhD, MSc. *Racial and Ethnic Health Disparities among Tumor Cases of the Anterior Cranial Fossa: A Propensity Score Matched ACS-NSQIP study.*
- Accepted for poster presentation by M. C. Findlay at NASBS. 2023
- C. Cutler, BS; M. A. Azab, MD; B. Lucke-Wold, MD, PhD, MCTS; **M. Khan, BS**; J. C. Henson, MS; A. S Gill, MD; J. A. Alt MD, PhD; M. Karsy, MD, PhD, MSc. *Evidence Based Recommendations on the Workup and Treatment Options for Inflammatory Pathologies of the Sella and Orbit: A Systematic Review.*
- Accepted for poster presentation by C. Cutler at NASBS. 2023
- J. C. Henson, MD; C. Cutler, BS; K. Cole, BS; B. Lucke-Wold, MD, PhD; **M. Khan, BS**; M. Karsy, MD, PhD, MSc. *Immunohistochemical Profiling and Staging in Esthesioneuroblastoma: A Single-Center Cohort Study And Systematic Review.*
- Accepted for poster presentation by J.C. Henson at NASBS. 2023
- M. Khan, B**; L. Li, Ph.D; S. Harger, MS; L. Haak, Ph.D.; T. Uppal, Ph.D.; K. Adhikari, BS; N. Gharoon, M. Carine, P. Hartley, K. Pagilla, S. C. Verma. *Investigation of SARS-CoV-2 Prevalence and Variants through Wastewater Surveillance*
- Oral Presentation by K. Pagilla and S. C. Verma at City of Sparks Council Meeting. 2022
- S. Bauer, BS; M. C Findlay, BS; **M. Khan, BS**; M. Karsy, MD, PhD. *Anterior Skull Base Outcomes: An mFI-5 Based Evaluation of Age vs. Frailty from the ACS-NSQIP Data*
- Poster presentation by S. Baur at CNS 2022 Annual Meeting. 2022
- J. C. Henson, MD, MS; C. C. Cutler, BS; K. L. Cole, MPH; B. Lucke-Wold, MD, PhD; **M. Khan, BS**; J. A. Alt, MD, PhD; Michael Karsy, MD, PhD. *Immunohistochemical Profiling and Prognostic Outcomes in Esthesioneuroblastoma: A Single Center Series and Systematic Review.*
- Poster presentation by C. Henson at CNS 2022 Annual Meeting. 2022
- J. C. Henson, MD, MS; C. C. Cutler, BS; K. L. Cole, MPH; B. Lucke-Wold, MD, PhD; **M. Khan, BS**; J. A. Alt, MD, PhD; Michael Karsy, MD, PhD. *Prognostic Utility of Staging and Grading Systems in Esthesioneuroblastoma: A Systematic Review*
- Poster presentation by C. Henson at CNS 2022 Annual Meeting. 2022
- M. C Findlay, BS; S. Bauer, BS; **M. Khan, BS**; M. Karsy, MD, PhD. *Racial Disparities in Surgical Outcomes Following Anterior Skull Base Tumor Resection: An ACS-NSQIP*
- Poster presentation by M. Findlay at CNS 2022 Annual Meeting. 2022
- M. Khan, BS**; M. Masud, BS; H. Khan, BS; Dr. A. M. Khanani, MD. *Case: Ophthalmic Artery Occlusion Post-SARS-CoV-2 Infection in a Healthy Male.*
- Oral presentation by Dr. Khanani at Retinal Physician 2022, Virtual. 2022
- H. Khan, BS; T. Ewing, BS; A. Aziz, BS; M. Masud, BS; H. Sulahria; **M. Khan, BS**; D. Pieramici, MD; J. Kitchens, MD; N. Holekamp, MD; V. Sheth, MD; J. Graff, MD; D. Eichenbaum, MD; A. Saulebayeva, MD; A. Khanani, MD. *Real-World Efficacy and Safety of the Ranibizumab Port-Delivery System in Neovascular AMD: The SUMMIT Study.*
- Oral presentation by H. Khan at the World of Ophthalmology Conference, Virtual. 2022
- H. Khan, BS; T. Ewing, BS; M. Masud, BS; H. Sulharia; **M. Khan, BS**; V. S. Sheth, MD, MBA; J. M. Graff, MD; D. A. Eichenbaum, MD; A. M. Khanani, MD, MA. *Real-World Efficacy and Safety of the Ranibizumab Port-Delivery System in Neovascular AMD: The SUMMIT Study.*
- Poster presentation by H. Khan at the American Society of Retina Specialists' 2022 Annual Meeting, New York City, NY. 2022
- M. Khan, BS**; S. Yost, BS; S. Yu, BS; C. Cutler, BS; J. C. Henson, BS; M. A. Azab, MD; S. Colby, MD; J. J. Evans, MD; W. T. Couldwell, MD, PhD; M. Karsy, MD, PhD, MSc. *Evaluating Pituitary Adenomas using Administrative Databases: Systematic Review of the Quality of Reporting Based on the STROBE Scale.*
- Presenting author** of an electronic poster presentation at the Early Career Neuroscience Virtual Research Symposium hosted by MSNTC and BSG, Virtual. 2022
- J. C. Hunsaker, BS; **M. Khan, BS**; A. Gamblin, BS; M. Karsy, MD, PhD, MSc; W. T. Couldwell, MD, PhD. *Use of a Surgical Stepdown Protocol for Cost Reduction after Transsphenoidal Pituitary Adenoma Resection.*
- Oral presentation by J.C. Hunsaker at the CNS 2021 Annual Meeting, Virtual. 2021
- M. Khan, BS**; A. Mohammed, BS; J. C. Hunsaker, BS; R. Kim, MD; S. Makarenko, MD; J. Evans, MD; W. T. Couldwell, MD, PhD; M. Karsy, MD, PhD, MSc. *Skull Base Complications and 30-Day Readmission: An Evaluation of the Elderly from the National Surgical Quality Improvement Program (NSQIP) Database.*
- Presenting author** of an electronic poster presentation at the CNS 2021 Annual Meeting, Virtual. 2021
- M. Khan, BS**; B. Farnsworth, BS, MHA; B. Pope, BS; B. Sherrod, MD; M. Karsy, MD, PhD, MSc. *Impact of Hospital Volume on Outcome After Surgical Treatment for Hydrocephalus: A U.S. Population Study from the National Inpatient Sample.*
- Presenting author** of an electronic poster presentation at the CNS 2021 Annual Meeting, Virtual. 2021

- M. Khan, BS***; J. Harper, BS*; J. C. Hunsaker, BS; K. L. Kraus, MSc; O. Adogwa, MD, MPH; D. Mukherjee, MD, MPH; A. Kang, PA-C, MMS; K. Swartz, MD; T. C. O'rigitano, MD, PhD; J. Guan, MD; M. Karsy, MD, PhD, MSc. *Evaluating the Role of Advance Practice Providers in Neurosurgery*.
Presenting author of an oral presentation at the CNS 2021 Annual Meeting, Virtual. 2021
- M. Khan, BS**; E. Joyce, MD, MS; J. Horn, MD; J. Scoville, MD; V. Ravindra, MD, MPH; S. Menacho, MD. *Postoperative Bowel Complications After Non-Shunt-Related Neurosurgical Procedures: Case Series and Review of the Literature*.
Presenting author of an electronic poster presentation at the CNS 2021 Annual Meeting, Virtual. 2021
- M. Khan, BS**; E. Joyce, MD, MS; J. Horn, MD; J. Scoville, MD; V. Ravindra, MD, MPH; S. Menacho, MD. *Postoperative Bowel Complications After Non-Shunt-Related Neurosurgical Procedures: Case Series and Review of the Literature*.
Presenting author of an electronic poster presentation at the AANS 2021 Annual Scientific Meeting, Virtual. E-poster available at <https://eposters.aans.org/MKhan>. 2021
- M. Khan, BS***; J. Harper, BS*; J. C. Hunsaker, BS; K. L. Kraus, MSc; O. Adogwa, MD, MPH; D. Mukherjee, MD, MPH; A. Kang, PA-C, MMS; K. Swartz, MD; T. C. O'rigitano, MD, PhD; J. Guan, MD; M. Karsy, MD, PhD, MSc. *Evaluating the Role of Advance Practice Providers in Neurosurgery*.
Presenting author of an electronic poster presentation at the AANS 2021 Annual Scientific Meeting, Virtual. E-poster available at <https://eposters.aans.org/MKhan>. 2021
- J. C. Hunsaker, BS; **M. Khan, BS**; J. Harper, BS; S. Makarenko, MD; J. Evans, MD; W. T. Couldwell, MD, PhD; M. Karsy, MD, PhD, MSc. *Prediction of Readmission and Complication in Pituitary Adenoma Resection via the National Surgical Quality Improvement Program (NSQIP) Database*.
Presenting author at the NCCN Annual Conference, Virtual. Available at <https://doi.org/10.6004/jnccn.2020.7731>. 2021
- J. C. Hunsaker, BS; **M. Khan, BS**; A. Gamblin, BS; M. Karsy, MD, PhD, MSc; W. T. Couldwell, MD, PhD. *Use of a Surgical Stepdown Protocol for Cost Reduction after Transsphenoidal Pituitary Adenoma Resection*. Oral presentation by J.C. Hunsaker at the NCCN Annual Conference, Virtual. Available at <https://doi.org/10.6004/jnccn.2020.7711>. 2021
- A. Shinagawa, BS; **M. Khan, BS**; J. Babu, BS, R. Rajesh; R. Rangaswamy, MD. *Intraprocedural Stroke During Middle Meningeal Artery Embolization*.
Poster presentation by A. Shinagawa at the West Coast Vascular and Interventional Symposium, Virtual. 2021
- M. Khan, BS***; J. Harper, BS*; J. C. Hunsaker, BS; K. L. Kraus, MSc; O. Adogwa, MD, MPH; D. Mukherjee, MD, MPH; A. Kang, PA-C, MMS; K. Swartz, MD; T. C. O'rigitano, MD, PhD; J. Guan, MD; M. Karsy, MD, PhD, MSc. *Evaluating the Role of Advance Practice Providers in Neurosurgery*.
Presenting author of an electronic poster presentation at the Weill Cornell Medicine Medical Student Neurological Surgery Research Symposium, Virtual. 2021
- J. C. Hunsaker, BS; **M. Khan, BS**; A. Gamblin, BS; M. Karsy, MD, PhD, MSc; W. T. Couldwell, MD, PhD. *Use of a Surgical Stepdown Protocol for Cost Reduction after Transsphenoidal Pituitary Adenoma Resection*. Oral presentation by J.C. Hunsaker at the Brown University AANS/SIGN Chapter 3rd Annual Student Neurology/Neurosurgery Conference, Virtual. 2021
- J. C. Hunsaker, BS; **M. Khan, BS**; J. Harper, BS; S. Makarenko, MD; J. Evans, MD; W. T. Couldwell, MD, PhD; M. Karsy, MD, PhD, MSc. *Prediction of Readmission and Complication in Pituitary Adenoma Resection via the National Surgical Quality Improvement Program (NSQIP) Database*.
Presenting author of an oral presentation at the Brown University AANS/SIGN Chapter 3rd Annual Student Neurology/Neurosurgery Conference, Virtual. 2021
- M. Khan, BS**; A. Mohammed; J. C. Hunsaker, BS; R. Kim, MS; S. Makarenko, MD; J. Evans, MD; W. T. Couldwell, MD, PhD; M. Karsy, MD, PhD, MSc. *Skull Base Complications and 30-Day Readmission: An Evaluation of the Elderly from the National Surgical Quality Improvement Program (NSQIP) Database*.
Presenting author for electronic poster made available for virtual viewing at the ACS Clinical Congress, Virtual. 2020
- T. Matern, BS; A. Shinagawa, BS; **M. Khan, BS**; R. Rangaswamy, MD. *Bilateral Agenesis of the Internal Carotid Arteries*.
Poster presentation by A. Shinagawa at the *Western Medical Research Conference*, Carmel, CA. 2020.
- M. Khan BS**; M. Ruesch, BS; R. L. Jensen, MD, PhD; D. Gillespie, PhD. *Knockout of hypoxia induced factor 1a in meningioma and glioma cell lines via short hairpin RNA interference and the CRISPR-Cas9 system*.
Presenting author of an oral presentation at the NV Statewide ACS Meeting, Las Vegas, NV. 2019
- M. Khan, BS**; S.F. Khaiboullina, S. C, MD, PhD; Verma, PhD. *ZIKV in Controlling Growth of Neuroblastoma Stem Cells*.
Presenting author of an oral presentation at the NV Statewide ACS Meeting, Las Vegas, NV. 2019
- M. Khan, BS**; M. Ruesch BS; R. L. Jensen, MD, PhD; D. Gillespie, PhD. *Knockout of Hypoxia Induced Factor 1a in*

- Meningioma and Glioma Cell Lines via Short Hairpin RNA (sh-RNA) Interference and the CRISPR-Cas9 System.*
Presenting author of a poster presentation at 115th Annual Meeting & Scientific Session NSMA, Reno, NV. 2019
- M. Khan, BS;** S.F. Khaiboullina, S. C, MD, PhD; Verma, PhD. *ZIKV in Controlling Growth of Neuroblastoma Stem Cells.*
Presenting author of an oral presentation at the 3rd Annual NV INBRE Statewide Meeting, Reno, NV. 2019
- F. Siddiqui; **M. Khan, BS;** K. Dingman, BS; T. Uppal, PhD; S. C. Verma, PhD. *KSHV encoded ORF59 Protein Interacts with Host Nucleolin Protein During KSHV Lytic Reactivation.*
 Poster presentation by F. Siddiqui at the UNR Biochemistry and Molecular Biology Undergraduate Spring Research Symposium, Reno, NV. 2019
- M. Khan, BS;** S.F. Khaiboullina, S. C, MD, PhD; Verma, PhD. *ZIKV in Controlling Growth of Neuroblastoma Stem Cells.*
Presenting author of a poster presentation at the UNR Med Annual Medical Student Research Day, Reno, NV. 2019
- M. Khan, BS;** S.F. Khaiboullina, S. C, MD, PhD; Verma, PhD. *ZIKV in Controlling Growth of Neuroblastoma Stem Cells.*
Presenting author of a poster presentation at the 115th Annual Meeting & Scientific Session Nevada State Medical Association (NSMA), Reno, NV. 2019
- M. Khan, BS;** M. Ruesch, BS; R. L. Jensen, MD, PhD; D. Gillespie, PhD. *Knockout of Hypoxia Induced Factor 1 α in Meningioma and Glioma Cell Lines via Short Hairpin RNA (sh-RNA) Interference and the CRISPR-Cas9 System.*
Presenting author of a poster presentation at NISBRE NIH, NIGHS 7th Biannual National IDeA Symposium of Biomedical Research Excellence, Washington, D.C. 2018
- M. Khan, BS;** M. Ruesch, BS; R. L. Jensen, MD, PhD; D. Gillespie, PhD. *Knockout of Hypoxia Induced Factor 1 α in Meningioma and Glioma Cell Lines via Short Hairpin RNA (sh-RNA) Interference and the CRISPR-Cas9 System.*
Presenting author of an Oral presentation at the 3rd Annual NV INBRE Statewide Meeting, Reno, NV. 2018
- A. Mohammed; **M. Khan, BS;** R. L. Jensen, MD, PhD; D. Gillespie, PhD. *Knockout of Hypoxia Inducible Factor 1 α in Meningioma and Glioma Cell Lines via Lentivirus and the CRISPR-Cas9 System.*
 Poster presentation by A. Mohammad at the University of Utah Undergraduate Summer Research Symposium, Salt Lake City, UT. 2018
- M. Khan, BS;** S.F. Khaiboullina, S. C, MD, PhD; Verma, PhD. *ZIKV in Controlling Growth of Neuroblastoma Stem Cells.*
Presenting author of a poster presentation at the UNR Biochemistry and Molecular Biology Undergraduate Winter Research Symposium, Reno, NV. 2018
- M. Khan, BS;** S.F. Khaiboullina, S. C, MD, PhD; Verma, PhD. *ZIKV in Controlling Growth of Neuroblastoma Stem Cells.*
Presenting author of a poster presentation at the NISBRE NIH, NIGHS 7th Biannual National IDeA Symposium of Biomedical Research Excellence, Washington, D.C. 2018

PUBLICATIONS

- K. L. Cole, BS; S. Tenhoeve; M. Findlay, BS; M. Khan, PhD; J. Cortez, BS; R. Grandhi, MD; S. T. Menacho, MD. *1022 Measuring Success in Distance Traveled: Examining the Unique Obstacles of Indigenous American Patients with Acute Neurosurgical Injuries.* Neurosurgery 71(Supplement_1):p 136, April 2025.
https://doi.org/10.1227/neu.0000000000003360_1022
- F. M. Penha, MD; M. Masud, BS; Z. A. Khanani, BS; M. Thomas, BS; R. D. Fong, BS; K. Smith, BS; A. Chand, BS; **M. Khan, PhD;** G. Gahn, MD; G. B. Melo, MD; A. M. Khanani, MD, MS. *Review of Real-World Evidence of Dual Inhibition of VEGF-A and ANG-2 with Faricimab in NAMD and DME.* Int J Retina Vitreous 2024 Vol. 10 Issue 1 Pages 5.
<https://www.ncbi.nlm.nih.gov/pubmed/38233896>
- M. C. Findlay, BS; M. T. Bounajem, MD; R. B. Kim, MD, MS; J. C. Henson, MD; M. A. Azab, MS; C. B. Cutler, BS; **M. Khan, PhD;** B. Cameron, BS; K. Budohoski, MD, PhD; R. Rennert, MD; W. T. Couldwell, MD, PhD. *Subtemporal Approach for the Treatment of Ruptured and Unruptured Distal Basilar Artery Aneurysms: Is There a Contemporary Use?* Oper Neurosurg (Hagerstown) 2024.
<https://www.ncbi.nlm.nih.gov/pubmed/38690880>
- C. C. Cutler, BS; M. A. Azab, MD; B. Lucke-Wold, MD, PhD; **M. Khan, BS;** J. C. Henson, BS; A. S. Gill, MD; J. A. Alt, MD, PhD; M. Karsy, MD, PhD, MSc. *In Reply to the Letter to the Editor Regarding "Systematic Review of Research, Mentorship, and Career Resources for Medical Students Pursuing Neurosurgical Training."* World Neurosurgery 2024 Vol. 182 Pages 236
<https://www.ncbi.nlm.nih.gov/pubmed/38390891>
- C. C. Cutler, BS; M. A. Azab, MD; B. Lucke-Wold, MD, PhD; **M. Khan, BS;** J. C. Henson, BS; A. S. Gill, MD; J. A.

- Alt, MD, PhD; M. Karsy, MD, PhD, MSc. *Systematic Review of Research, Mentorship, And Career Resources for Medical Students Pursuing Neurosurgical Training*. *World Neurosurgery* **179**, 28-36 (2023).
<https://doi.org/10.1016/j.wneu.2023.07.133>
- C. Rawanduzy, MD; E. Earl, BS; J. Brooks, BS; **M. Khan, BS**; N. B. Dadario, BS; M. Sughrue, MD; M. Karsy, MD, PhD, MSc. *Connectomic Networks And Their Impact On Clinical Outcomes In Glioma Treatment: A Review*. *Indian Journal of Neurosurgery* **12**, 116-131 (2023).
<https://doi.org/10.1055/s-0043-1771214>
- S. Bauer, BS; M. Findlay, BS; **M. Khan, BS**; H. Alexander, MD; B. Lucke-Wold, MD, PhD; F. Hamrick, BS; J. Hunsaker, BS; M. Karsy, MD, PhD, MSc. *Anterior Skull Base Outcomes and Complications: A Propensity Score-Matched Evaluation of Age and Frailty as Measured by Mfi-5 From The ACS-NSQIP Database*. *Indian Journal of Neurosurgery* (2023).
<https://doi.org/10.1055/s-0043-1770908>
- M. C. Findlay, BS; R. Drexler, MD; **M. Khan, BS**; K. L. Cole, BS; A. Karbe, MD; R. Rotermund, MD; et al. ...; M. Karsy, MD, Ph.D., MSc. *Propensity Score-Matched Assessment of Endoscopic Versus Microscopic Approaches In The Management Of Pituitary Adenomas*. *Neurosurgery* **93**, 794-801 (2023).
<https://doi.org/10.1227/neu.0000000000002497>
- C. C. Cutler, BS; M. A. Azab, MD; B. Lucke-Wold, MD, Ph.D.; **M. Khan, BS**; J. C. Henson, BS; A. S. Gill, MD; J. A. Alt, MD, PhD; M. Karsy, MD, PhD, MSc. *Systematic Review of Treatment Options and Therapeutic Responses for Lesions of The Sella And Orbit: Evidence-Based Recommendations*. *World Neurosurgery* **173**, 136-145 e130 (2023).
<https://doi.org/10.1016/j.wneu.2022.12.108>
- S. Bauer, BS; M. Findlay, BS; **M. Khan, BS**; H. Alexander, MD; B. Lucke-Wold, MD, PhD; F. Hamrick, BS; et al. *Anterior Skull Base Outcomes and Complications: A Propensity Score Matched Evaluation of Age and Frailty as Measured by MFI-5 from the ACS-NSQIP Database*. *Indian Journal of Neurosurgery*. Accepted for publication 05/15/23. 2024; 13(01): 035-043.
<https://doi.org/10.1055/s-0043-1770908>
- M. Khan, BS**; L. Li, PhD; L. Haak, PhD; S. H. Payen, MS; M. Carine, BS; K. Adhikari, BS; T. Uppal, MS, PhD; P. D. Hartley, PhD; H. Vasquez-Gross, PhD; J. Petereit, MS, PhD; S. C. Verma, PhD; K. Pagilla, MS, PhD. *Significance of Wastewater Surveillance in Detecting the Prevalence of SARS-CoV-2 Variants and Other Respiratory Viruses in the Community-A Multi-Site Evaluation*. *One Health*. 2023 Jun;16:100536. Epub ahead of print.
<https://doi.org/10.1016/j.onehlt.2023.100536>
- M. Khan BS**; C. Hanna BS; M. Findlay BS; B. Lucke-Wold MD, PhD; M. Karsy MD, PhD, MSc; R. L. Jensen MD, PhD, MHPE. *Modeling Meningiomas: Optimizing Treatment Approach*. *Neurosurgery Clinics of North America*. 2023 Apr 10; <https://doi.org/10.1016/j.nec.2023.02.014>
- M. Hosseini-Siyanaki, MD; Z. H. Segherlou, MD S. Liu, MD; M. A. Azab, MD; **M. Khan, BS**; B. Lucke-Wold, MD, PhD. *Recurrent meningioma: When to intervene*. *BOHR International Journal of Neurology and Neuroscience*. 2023;2(1):3-11. <https://doi.org/10.54646/bijnn.008>
- J. C. Henson, BS; C. C. Cutler, BS; K. L. Cole, BS; B. Lucke-Wold, MD, PhD; **M. Khan, BS**; J. A. Alt, MD; M. Karsy MD, PhD, MSc. *Immunohistochemical Profiling and Staging in Esthesioneuroblastoma: A Single-Center Cohort Study and Systematic Review*. *World Neurosurgery*. 2023 Feb;170:e652-e665.
<https://doi.org/10.1016/j.wneu.2022.11.094>
- M. C. Findlay, BS; R. Drexler, MD; **M. Khan, BS**; K. L. Cole, BS; A. Karbe, MD; R. Rotermund, MD. et al. *A Multicenter, Propensity Score-Matched Assessment of Endoscopic Versus Microscopic Approaches in the Management of Pituitary Adenomas*. *Neurosurgery*. 2023 Apr 14. Online ahead of print.
<https://doi.org/10.1227/neu.0000000000002497>
- J. C. Henson, BS; C. C. Cutler, BS; K. L. Cole, BS; B. Lucke-Wold, MD, PhD; **M. Khan, BS**; J. A. Alt, MD; M. Karsy MD, PhD, MSc. *Immunohistochemical Profiling and Staging in Esthesioneuroblastoma: A Single-Center Cohort Study and Systematic Review*. *Journal of Neurological Surgery Part B Skull Base*. 2023; 84(S 01): S1-S344.
<https://doi.org/10.1055/s-0043-1762019> / <http://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0043-1762019>
- M. C. Findlay, BS; S. Z. Bauer, BS; **M. Khan, BS**; R. B. Kim, MD; S. Park, MD; A. Hepzibha, MD; M. Karsy MD, PhD, MSc. *Racial and Ethnic Health Disparities among Tumor Cases of the Anterior Cranial Fossa: A Propensity Score-Matched ACS-NSQIP Study*. *Journal of Neurological Surgery Part B Skull Base*. 2023; 84(S 01): S1-S344. <https://doi.org/10.1055/s-0043-1762269> / <https://www.thieme-connect.de/products/ejournals/abstract/10.1055/s-0043-1762269>
- E. R. Dioso, BS; R. C. Rennert, MD; **M. Khan, BS**; S. Z. Bauer, BS; C. B. Cutler, BS; M. Karsy, MD, PhD, MSc; W. T. Couldwell, MD, PhD. *Far Lateral Approach to the Ventrolateral Skull Base: Case Series*. *Journal of Neurological Surgery Part B Skull Base*. 2023; 84(S 01): S1-S344. <https://doi.org/10.1055/s-0043-1762339> / <http://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0043-1762339>

- E. R. Dioso, BS; A. S. Carter, BS; **M. Khan, BS**; M. Karsy, MD, PhD, MSc. *The Impact of Rurality on Treatment and Outcomes among Adult Patients with Sinonasal Malignancies in Utah*. Journal of Neurological Surgery Part B Skull Base. 2023; 84(S 01): S1-S344. <http://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0043-1762047> / <https://doi.org/10.1055/s-0043-1762047>
- C. B. Cutler, BS; M. A. Azab, MD; B. Lucke-Wold, MD, PhD; **M. Khan, BS**; C. Henson, BS; A. Gill, MD; J. A. Alt, MD; M. Karsy MD, PhD, MSc. *Evidence-Based Recommendations on the Workup and Treatment Options for Inflammatory Pathologies of the Sella and Orbit: A Systematic Review*. Journal of Neurological Surgery Part B Skull Base. 2023; 84(S 01): S1-S344. <http://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0043-1762127> / <https://doi.org/10.1055/s-0043-1762127>
- S. Bauer, BS; M. Findlay, BS; **M. Khan, BS**; H. Alexander, MD; B. Lucke-Wold, MD, PhD; F. Hamrick, BS; et al. *Anterior Skull Base Outcomes and Complications: A Propensity Score Matched Evaluation of Age and Frailty as Measured by MFI-5 from the ACS-NSQIP Database*. Journal of Neurological Surgery Part B Skull Base. 2023; 84(S 01): S1-S344. <http://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0043-1762117> / <https://doi.org/10.1055/s-0043-1762117>
- M. C. Findlay, BS; S. Z. Bauer, BS; **M. Khan, BS**; R. B. Kim, MD; S. Park, MD; A. Hepzibha, MD; M. Karsy MD, PhD, MSc. *Are There Racial and Ethnic Health Disparities Among Outcomes After Anterior Cranial Fossa Surgery? A Propensity Score-Matched American College of Surgeons National Surgical Quality Improvement Program Study*. Neurosurgery. 2023 Feb 10. Online ahead of print. <https://doi.org/10.1227/neu.0000000000002397>
- C. C. Cutler, BS; M. A. Azab, MD; B. Lucke-Wold, MD, PhD; **M. Khan, BS**; J. C. Henson, BS; A. S. Gill, MD; J. A. Alt, MD, PhD; M. Karsy, MD, PhD, MSc. *Systematic Review of Treatment Options and Therapeutic Responses for Lesions of the Sella and Orbit: Evidence-Based Recommendations*. World Neurosurgery. 2023 Jan 10;S1878-8750(22)01813-7. Epub ahead of print. <https://doi.org/10.1016/j.wneu.2022.12.108>
- M. Khan, BS**; L. Li, PhD; L. Haak, PhD; S. H. Payen, MS; M. Carine, BS; K. Adhikari, BS; T. Uppal, MS, PhD; P. D. Hartley, PhD; H. Vasquez-Gross, PhD; J. Petereit, MS, PhD; S. C. Verma, PhD; K. Pagilla, MS, PhD. *Significance of Wastewater Surveillance in Detecting the Prevalence of SARS-CoV-2 Variants and Other Respiratory Viruses in the Community-A Multi-Site Evaluation*. medRxiv. 2023 Jan 1;05.23284236. Preprint. <https://doi.org/10.1101/2023.01.05.23284236>
- C. B. Cutler, BS; P. King, BS; **M. Khan, BS**; B. Olowofela, BS; B. Lucke-Wold, MD, PhD. *Innovation in Neurosurgery: Lessons Learned, Obstacles, and Potential Funding Sources*. Neurons and Neurological Disorders. 2022 Dec 19;1(2). <https://doi.org/10.0810/nnd.2022/0003>
- J. C. Henson, BS; C. C. Cutler, BS; K. L. Cole, BS, MPH; B. Lucke-Wold, MD, PhD; **M. Khan, BS**; J. A. Alt, MD, PhD; M. Karsy, MD, PhD, MSc. *Immunohistochemical Profiling and Staging in Esthesioneuroblastoma: A Single-Center Cohort Study and Systematic Review*, World Neurosurgery. 2022 Nov 24;S1878-8750(22)01647-3. Epub ahead of print 2022 Nov 24. <https://doi.org/10.1016/j.wneu.2022.11.094>
- M. R. H. Siyanaki, MD; B. Lucke-Wold, MD, PhD; **M. Khan, BS**. *Exploration of Treatments for Subarachnoid Hemorrhage*. Journal of Biomed Research. 2022 Nov;3(1):48-55. PMID: 36589526; PMCID: PMC9802631. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9802631/> / <https://doi.org/10.46439/biomedres.3.026>
- M. Khan, BS**; S. Yost, BS; S. Yu, BS; C. Cutler, BS; J. C. Henson, MS; M. A. Azab, MD; S. Colby, MD; M. Karsy, MD, PhD, MSc. *Evaluating Pituitary Adenomas using National Research Databases: Systematic Review of the Quality of Reporting Based on the STROBE Scale*. Neurosurgical Review. 2022 Dec;45(6):3801-3815. Epub ahead of print 2022 Nov 3. <https://doi.org/10.1007/s10143-022-01888-z>
- M. Khan, BS**; E. Joyce, MD, MS; J. Horn, MD; J. Scoville, MD; V. Ravindra, MD, MPH; S. Menacho, MD. *Postoperative bowel complications after non-shunt-related neurosurgical procedures: case series and review of the literature*, Neurosurgical Review. 2022 Feb;45(1):275-283. PMID: 34297261. Published 2022 Feb. Epub ahead of print 2021 Jul 23. <https://doi.org/10.1007/s10143-021-01609-y>
- A. Aziz, BS; **M. Khan, BS**; C. R. Bauman, MD; A. M. Khanani, MD, MA. (2020) *Faricimab; an Emerging Therapy for the Treatment of Neovascular Age-Related Macular Degeneration*, TouchOphthalmology. 2021; 15(1):23-5. Published 2021 July 19. 2021. <https://doi.org/10.17925/OPHT.2021.15.1.23>
- J. C. Hunsaker, BS; **M. Khan, BS**; A. Gamblin, BS; M. Karsy, MD, PhD, MSc; W. T. Couldwell, MD, PhD. (2021) *Use of a Surgical Stepdown Protocol for Cost Reduction after Transsphenoidal Pituitary Adenoma Resection: A Case Series*, World Neurosurgery. 2021 Aug;152:e476-e483. Epub ahead of print 2021 Jun 16. PMID:34098141. Published 2021 August. <https://doi.org/10.1016/j.wneu.2021.05.126>
- J. C. Hunsaker, BS; **M. Khan, BS**; J. Harper, BS; S. Makarenko, MD; J. Evans, MD; W. T. Couldwell, MD, PhD; M. Karsy, MD, PhD, MSc. (2021) *Prediction of Readmission and Complication in Pituitary Adenoma Resection via the National Surgical Quality Improvement Program (NSQIP) Database*, Cereus. 2021 May 2;13(5):e14809. PMID: 34123604. Published 2021 May 2. <https://doi.org/10.7759/cureus.14809>
- J. C. Hunsaker, BS; **M. Khan, BS**; J. Harper, BS; S. Makarenko, MD; J. Evans, MD; W. T. Couldwell, MD, PhD; M.

- Karsy, MD, PhD, MSc. (2021) *HSR21-052: Prediction of Readmission and Complication in Pituitary Adenoma Resection via the National Surgical Quality Improvement Program (NSQIP) Database*, Journal of the National Comprehensive Cancer Network (JNCCN). 19(3.5), HSR21-052-HSR21-052. Published 2021 March 17. <https://doi.org/10.6004/jnccn.2020.7731>
- J. C. Hunsaker, BS; **M. Khan, BS**; A. Gamblin, BS; M. Karsy, MD, PhD, MSc; W. T. Couldwell, MD, PhD. (2021) *QIM21-085: Use of a Surgical Stepdown Protocol for Cost Reduction after Transsphenoidal Pituitary Adenoma Resection*, Journal of the National Comprehensive Cancer Network (JNCCN). 19(3.5), QIM21-085-QIM21-085. Published 2021 March 17. <https://doi.org/10.6004/jnccn.2020.7711>
- M. Khan, BS**; B. Farnsworth, BS, MHA; B. Pope, BS; B. Sherrod, MD; M. Karsy, MD, PhD, MSc. (2021) *Impact of Hospital Volume on Outcome After Surgical Treatment for Hydrocephalus: A U.S. Population Study From the National Inpatient Sample*, Cereus. 2021 Feb 28;13(2):e13617. PMID: 33816016; PMCID: PMC8009768. Published 2021 Feb 28. <https://doi.org/10.7759/cureus.13617>
- M. Khan, BS***; J. Harper, BS*; J. C. Hunsaker, BS; K. L. Kraus, MSc; O. Adogwa, MD, MPH; D. Mukherjee, MD, MPH; A. Kang, PA-C, MMS; K. Swartz, MD; T. C. Origitano, MD, PhD; J. Guan, MD; M. Karsy, MD, PhD, MSc. (2020) *Evaluating the Role of Advance Practice Providers in Neurosurgery*, Neurosurgery. 2021 Feb 16;88(3):E285-E287. PMID: 33370811. Published 2021 Feb 16. <https://doi.org/10.1093/neuros/nyaa502>
- M. Khan, BS**; A. Mohammed, BS; J. C. Hunsaker, BS; R. Kim, MD; S. Makarenko, MD; J. Evans, MD; W. T. Couldwell, MD, PhD; M. Karsy, MD, PhD, MSc. *Skull Base Complications and 30-Day Readmission: An Evaluation of the Elderly from the National Surgical Quality Improvement Program (NSQIP) Database*, Journal of Neurological Surgery Part B, Skull Base. 2021; 82(S 02): S65-S270. Published 2021 Feb 12. Available at <https://www.thieme-connect.de/products/ejournals/abstract/10.1055/s-0041-1725305>
- J. C. Hunsaker, BS; **M. Khan, BS**; J. Harper, BS; S. Makarenko, MD; J. Evans, MD; W. T. Couldwell, MD, PhD; M. Karsy, MD, PhD, MSc. (2021) *Prediction of Readmission and Complication in Pituitary Adenoma Resection via the National Surgical Quality Improvement Program (NSQIP) Database*, Journal of Neurological Surgery Part B, Skull Base. 2021; 82(S 02): S65-S270. Published 2021 Feb 12. Available at <https://www.thieme-connect.de/products/ejournals/abstract/10.1055/s-0041-1725303>
- A. Aziz, BS; **M. Khan, BS**; A. M. Khanani, MD, MA. (2020) *THR-149 and THR-687 for Diabetic Macular Edema - New therapeutics target RGD integrins and the plasma kallikrein system*, Retinal Physician. Published 2020 Sep 1. Available at <https://www.retinalphysician.com/issues/2020/september-2020/thr-149-and-thr-687-for-diabetic-macular-edema>
- M. Khan, BS**; A. Aziz, BS; A. M. Khanani, MD, MA. (2020) *Extended Delivery Systems in Retinal Vascular Diseases – Where Are We? - Intravitreal Interventions: Vol 9, Num 2*, RetinaCME. Published 2020 Aug 31. Available at https://cme.healio.com/retinacme/age-related-macular-degeneration/2020/08_august/intravitreal-interventions-volume-9-number-2/cme-information
- A. Aziz, BS; **M. Khan, BS**; A. M. Khanani, MD, MA. (2020) *Pathways for the Treatment of Patients With Diabetic Macular Edema – Retina360: Advances in the Management of Retinal Diseases; Vol 1, Num 2*, Ophthalmic Surgery, Lasers and Imaging (OSLI) RetinaCME. Published 2020 Aug 20. Available at https://cme.healio.com/retinacme/retinal-vascular-diseases/2020/09_september/retina360-advances-in-the-management-of-retinal-diseases-volume-1-number-2
- G. M. Gahn, MD; A. M. Khanani, MD, MA; **M. Khan, BS**; A. Aziz, BS; F. Siddiqui, BS; N. J. London, MD; L. K. Mukkamala, MD; L. S. Morse, MD, PhD. (2020) *Purtscher's-Like Retinopathy Associated with Acute Pancreatitis*, American Journal of Ophthalmology Case Reports (AJO). 2020 Aug 20;20:100892. PMID: 32913924; PMCID: PMC7471597. Published 2020 Aug 20. <https://doi.org/10.1016/j.ajoc.2020.100892>
- M. Khan, BS**; A. Aziz, BS; N. Shafi, BS; T. Abbas, BS; A. M. Khanani, MD, MA. (2020) *Targeting Angiopoietin in Retinal Vascular Diseases: A Literature Review and Summary of Clinical Trials Involving Faricimab*, Cells. 2020 Aug 10;9(8):1869. PMID: 32785136; PMCID: PMC7464130. Published 2020 Aug 10. <https://doi.org/10.3390/cells9081869>
- A. Aziz, BS; **M. Khan, BS**; N. Shafi, BS; A.M. Khanani, MD, MA. (2020) *Sustained-Release Sunitinib Malate for Neovascular AMD*, Retinal Physician. Published 2020 Mar 1. Available at <https://www.retinalphysician.com/issues/2020/march-2020/sustained-release-sunitinib-malate-for-neovascular>

PROFESSIONAL MEMBERSHIPS

Young Neurosurgeons Committee (YNC/AANS)
 Congress of Neurological Surgeons (CNS)
 American Physician Scientists Association (APSA)
 Brain and Spine Group (BSG)/Medical Student Neurosurgery Training Center (MSNTC)
 Washoe County Medical Society (WCMS)
 Nevada Society for Dermatology and Dermatologic Surgery (NSDDS)

American Association of Neurosurgeons (AANS)
American Medical Association (AMA)
American College of Surgeons (ACS)
Student National Medical Association (SNMA)
Nevada State Medical Association (NSMA)
Asian American Pacific Islander Alumni Association (AAPAA)
Geographical Management of Cancer Health Disparities (GMap), Region 6

MEDIA

"Eight Lessons from an MD-PhD Candidate at UNR Med"	2024
https://www.renown.org/blog/eight-lessons-from-an-md-phd-candidate-at-unr-med	
"Student Outreach Clinic Establishes First Partnership with Asian Community Development Council to Provide Free Healthcare"	2023
https://t.e2ma.net/message/9l0nth/dt8xtol	
"@Unrmedfuturedoctors: Majid Khan is a first generation, Pakistani-American MD/PhD 4th year student."	2022
https://www.instagram.com/p/CmKplFdv6sZ/	2020
"CHASING—AND CATCHING—HIS DREAMS" – Huntsman Cancer Institute	
https://healthcare.utah.edu/huntsmancancerinstitute/news/2020/02/chasingand-catchinghis-dreams.php	
"Zika Virus: An unlikely hero?" – UNR Med	2017
https://med.unr.edu/news/archive/2017/zika-virus	

PERSONAL INTERESTS

Outdoor activities (Mountain Biking/Hiking/Snowboarding)
Rock Climbing
Clash of Clans, Clan Leader (since 2013)
Car Enthusiast/Mechanic
Cinematography
Artificial intelligence/Machine Learning/Computer Science/Technologies
Barber (self-haircut and friends)