




Amit Bhasker Ayer

Clinical Instructor, Neurosurgery

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICES

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Bio

BIO

Dr. Ayer completed his undergraduate education at Queen's University with a degree in life sciences and an honors thesis in immunology. He then completed his medical training at Wake Forest University and his neurosurgical training at Northwestern University Feinberg School of Medicine, where during residency he also obtained a Master of Business Administration from Kellogg School of Management.

As a clinical instructor at Stanford, Dr. Ayer will be focused on the surgical treatments of movement disorders, epilepsy and pain. Dr. Ayer has clinical interests in surgical treatment for epilepsy, movement disorders, skull base approaches, hydrocephalus and spine surgery. His research has focused on bioelectronic tools for the treatment of neurosurgical pathology and is interested in developing novel brain computer interfaces and biosensors for the restoration of sensorimotor function.

In his free time, he enjoys playing guitar, hockey, hiking, and traveling.

CLINICAL FOCUS

- Neurosurgery
- Epilepsy
- Stereotactic and Functional Neurosurgery

ACADEMIC APPOINTMENTS

- Clinical Instructor, Neurosurgery

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Congress of Neurological Surgeons (2013 - present)
- Member, American Association of Neurological Surgeons (2013 - present)

PROFESSIONAL EDUCATION

- BSc, Queen's University , Life Sciences, Immunology (2009)
- Medical Education: Wake Forest School of Medicine (2013) NC

- MBA, Northwestern Kellogg School of Management , Health care administration, entrepreneurship (2019)
- Residency: McGaw Medical Center of Northwestern University (2020) IL

Publications

PUBLICATIONS

- **Analysis of risk factors and clinical sequelae of direct electrical cortical stimulation-induced seizures and afterdischarges in patients undergoing awake mapping.** *Journal of neurosurgery*
Abecassis, Z. A., Ayer, A. B., Templer, J. W., Yerneni, K., Murthy, N. K., Tate, M. C.
2020; 1–8
- **Continuous, noninvasive wireless monitoring of flow of cerebrospinal fluid through shunts in patients with hydrocephalus** *NPJ DIGITAL MEDICINE*
Krishnan, S. R., Arafa, H. M., Kwon, K., Deng, Y., Su, C., Reeder, J. T., Freudman, J., Stankiewicz, I., Chen, H., Loza, R., Mims, M., Mims, M., Lee, et al
2020; 3 (1): 29
- **Impact of medical student involvement on outcomes following spine surgery: A single center analysis of 6485 patients** *JOURNAL OF CLINICAL NEUROSCIENCE*
Abecassis, Z. A., Hopkins, B., Win, P., Yerneni, K., Karras, C. L., Frankel, H. G., Ayer, A., Dandaleh, N. S.
2019; 69: 143–48
- **Epidermal electronics for noninvasive, wireless, quantitative assessment of ventricular shunt function in patients with hydrocephalus** *SCIENCE TRANSLATIONAL MEDICINE*
Krishnan, S. R., Ray, T. R., Ayer, A. B., Ma, Y., Gutruf, P., Lee, K., Lee, J., Wei, C., Feng, X., Ng, B., Abecassis, Z. A., Murthy, N., Stankiewicz, et al
2018; 10 (465)
- **Low-Dose Gamma Knife Radiosurgery for Vestibular Schwannomas: Tumor Control and Cranial Nerve Function Preservation After 11 Gy** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*
Schumacher, A. J., Lall, R. R., Lall, R. R., Nanney, A., Ayer, A., Sejpal, S., Liu, B. P., Marymont, M., Lee, P., Bendok, B. R., Kalapurakal, J. A., Chandler, J. P.
2017; 78 (1): 2–10
- **Cavernous sinus metastases treated with gamma knife (TM) stereotactic radiosurgery** *JOURNAL OF RADIOSURGERY AND SBRT*
Ayer, A., Page, B. R., Lucas, J. T., Bourland, J., Oliver, E. R., Tatter, S. B., Ellis, T. L., Chan, M. D.
2014; 3 (2): 131–37
- **A ruptured infectious intracranial aneurysm with a combined fungal and bacterial etiology** *CLINICAL NEUROLOGY AND NEUROSURGERY*
Abecassis, I. J., Adel, J. G., Ayer, A., Batjer, H.
2013; 115 (11): 2393–96
- **Clinical Trials for Neuroprotective Therapies in Intracerebral Hemorrhage: A New Roadmap from Bench to Bedside** *TRANSLATIONAL STROKE RESEARCH*
Ayer, A., Hwang, B. Y., Appelboom, G., Connolly, E. S.
2012; 3 (4): 409-417
- **IL-27 Enhances LPS-Induced Proinflammatory Cytokine Production via Upregulation of TLR4 Expression and Signaling in Human Monocytes** *JOURNAL OF IMMUNOLOGY*
Guzzo, C., Ayer, A., Basta, S., Banfield, B. W., Gee, K.
2012; 188 (2): 864–73
- **Advances in Neuroprotective Strategies: Potential Therapies for Intracerebral Hemorrhage** *CEREBROVASCULAR DISEASES*
Hwang, B. Y., Appelboom, G., Ayer, A., Kellner, C. P., Kotchetkov, I. S., Gigante, P. R., Haque, R., Kellner, M., Connolly, E. S.
2011; 31 (3): 211-222
- **The sociopolitical history and physiological underpinnings of skull deformation** *NEUROSURGICAL FOCUS*
Ayer, A., Campbell, A., Appelboom, G., Hwang, B. Y., McDowell, M., Piazza, M., Feldstein, N. A., Anderson, R. C.
2010; 29 (6)