

H Alex Choi MD is an Associate Professor at the University of Texas Health Science Center at Houston., McGovern Medical school. He is the Director of Neurocritical Care, Vice Chair of Neurosurgery-Critical Care, Vice Chair for Quality-Neurosurgery and an attending neurointensivist at Memorial Hermann Hospital- Texas Medical Center.

Dr. Choi completed his MD, neurology residency and neurocritical care fellowship at Columbia University College of Physicians and Surgeons. His work focuses on research that improves patient outcomes after acute brain injury, particularly aneurysmal subarachnoid hemorrhage. He is interested in employing statistical, informatics and machine learning approaches to addresses some critical problems in neurocritical care. Major research interests focus on (a) prediction of secondary complications such as delayed cerebral ischemia (DCI) after SAH (b) understanding abnormal neuroinflammatory activity after acute brain injury and their association with poor outcomes and (c) clinical research/trials. His laboratory is focused on using network informatics approaches to model and analyze the immune profile. The immune response is complex and dynamic involving hundreds of interactions and cells and molecules. Conventional statistical methods fail to account for this intricacy. The novel bioinformatics tools developed will seek to unravel this complexity and provide deeper insights into the nature of the immune reaction after SAH. Dr. Choi is a PI of SAHRANG, a randomized clinical trial examining the effect of galantamine on outcomes after SAH.