

## Brain Health Pre-Con Symposium 2027 Categories and Definitions

You **MUST** select at least one category; this is mandatory. You **MAY** also select a “Secondary Category”; **the additional category is optional**. Do **NOT** select an additional, secondary category if it does not fit your submission.

*Note: There may be some overlap of definitions/terms among categories. Please aim for topic specificity as much as possible.*

### **Acute Ischemic Stroke Management**

Focuses on emergency medical management, including neuroprotection, thrombolysis, adjunct therapies and advanced revascularization techniques.

### **Arteriosclerosis, Thrombosis, and Vascular Biology**

Focuses on vascular processes and risk factors—such as atherosclerosis and thrombotic events—that contribute to stroke.

### **Brain Health and Cognitive Impairment**

Covers basic, clinical, experimental, and population-based investigations into relationships between stroke, cerebrovascular disease, and cognitive outcomes. Explores neuroimaging correlates and predictors of cognitive impairment, with a particular (but not exclusive) focus on small vessel disease and vascular dementia.

### **Cerebrovascular Systems and Multidisciplinary Models of Care**

Reviews integrated care models designed to optimize stroke treatment across various healthcare settings.

### **Epidemiology, Risk Factors, and Prevention**

Examines population studies, disease patterns, established and emerging risk factors, and preventive strategies, emphasizing public health approaches.

### **Global Stroke Disparities**

Examines worldwide social determinants of cerebrovascular health, strategies for improving access to evidence-based care in culturally relevant ways, and efforts toward achieving greater equity in stroke outcomes.

### **Health Services, Quality Improvement, and Patient-Centered Outcomes**

Explores strategies to enhance healthcare delivery and research design and ensure treatments align with patient needs and experiences.

### **Hemorrhagic Stroke Treatment**

Dedicated to the latest approaches for managing intracerebral and subarachnoid hemorrhages.

### **Imaging in Stroke**

Explores advances in neuroimaging techniques for stroke diagnosis, management, and prognosis.

### **Molecular and Cellular Brain Science**

Explores the cellular and molecular foundations of stroke, deepening our understanding of neurobiology and pathophysiology.

### **Neurocritical Care and Complex Brain Physiology**

Addresses the intensive care of stroke patients, including advanced monitoring, interventions, and long-term outcomes.

### **Neuroimmunology and Inflammation in Stroke**

Investigates how immune and inflammatory processes influence stroke onset, acute pathological evolution, and recovery, opening doors for new therapeutic targets.

**Neurointervention**

Focuses on endovascular and surgical neurointerventional strategies in stroke and neurovascular conditions.

**Omics, Big Data, Precision Medicine, Bioengineering, and Artificial Intelligence**

Highlights genomic, proteomic, and computational strategies shaping personalized stroke care. Showcases how technology and data-driven tools are transforming stroke diagnosis, treatment, and research, as well as how digital solutions and telehealth are reshaping both acute and long-term stroke care.

**Pediatric Stroke**

Dedicated to the unique pathophysiology, challenges, and treatment protocols for stroke in children.

**Post-Stroke Care**

Covers best practices for stroke units, secondary prevention, and long-term management strategies.

**Practical Updates and Clinical Conundrums**

Features case-based discussions and expert panels addressing real-world challenges in stroke management.

**Psychosocial and Behavioral Aspects of Stroke**

Examines mental and behavioral health in relation to stroke phenomenology, behavioral challenges, and social support systems crucial for stroke recovery.

**Regenerative Medicine and Novel Therapeutic Strategies**

Explores emerging treatments such as stem cell therapy, human-machine interfaces/devices, and novel drug delivery methods aimed at repair, functional recovery, and regeneration.

**Rehabilitation and Recovery**

Highlights innovative rehabilitation methods and long-term support strategies for stroke survivors.

**Translational Research, Therapeutic Development, and Biomarkers**

Bridges basic science with clinical practice by highlighting innovative therapies and the discovery of new biomarkers.

**Vascular Contributions to Brain Health and Disorders**

Explores how vascular health and pathology relate to neurological disorders other than stroke, including those not traditionally considered vascular in nature. The entities covered include, but are not limited to, cognitive aging and dementia, migraine, epilepsy, traumatic brain injury, and subdural hemorrhage.

**Vascular Malformations, Aneurysms, Moyamoya, and Other Vascular Conditions**

Addresses congenital and acquired vascular anomalies, their impact on stroke risk, approaches to care, and outcomes.