

ISC 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 Malformations, Aneurysms, Moyamoya, and Other Vascular Conditions

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