

Bern, 28 June 2021

Master of Advanced Studies in Stroke Medicine: Programme agenda

The programme starts in April 2022 (Application deadline: 31.01.2022), covers five semesters and is structured in nine modules and a master thesis. The programme is worth a total of 60 ECTS credits (approx. 1800 working hours). We will provide an innovative all-in-one Learning Platform for convenient distance learning. The 3 weeks of face-to-face teaching and hands-on training will take place at the Stroke Centre of the University Hospital and University of Bern, Switzerland. Furthermore, each student needs to spend three weeks in a stroke unit in Europe. The internship has to be completed in at least two different units, preferably outside the applicant's own country of residence and/or practice.

Module 1: Ischemic Stroke: from Epidemiology to Diagnosis

Learning objectives	The graduate <ul style="list-style-type: none"> - learns the most important aspects of the stroke epidemiology, - acquires a deep understanding of the pathophysiology, - knows all possible symptoms of a stroke, - knows the basics of stroke imaging.
Course contents	Block 1.1: Stroke Epidemiology & Burden Block 1.2: Pathophysiology of Ischemic Brain Damage Block 1.3: Stroke Symptoms Block 1.4: Imaging Block 1.5: Current controversies and burning questions

Module 2: Ischemic Stroke: Acute Treatment

Learning objectives	The graduate <ul style="list-style-type: none"> - learns the basics of the most important therapy decisions in ischemic stroke patients, - can weigh up various possible off-label therapy approaches even in difficult situations.
Course contents	Block 2.1: Ischemic Stroke Treatment Block 2.2: Current controversies and burning questions

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Module 3: Ischemic Stroke: Post-acute Treatment

Learning objectives	The graduate <ul style="list-style-type: none"> - learns comprehensively all aspects of the early post-acute phase of stroke treatment in the stroke unit and intensive care unit as well as early rehabilitation, - learns the relevant aspects of rehabilitation.
Course contents	Block 3.1: Stroke Unit & Intensive Care Treatment Block 3.2: Rehabilitation

Module 4: Stroke Etiology: Reasons and Treatment

Learning objectives	The graduate <ul style="list-style-type: none"> - learns to clarify the frequent and rare causes of stroke and to treat them based on evidence.
Course contents	Stroke etiology: reasons and treatment

Module 5: Ischemic Stroke: Secondary prevention and stroke in the young

Learning objectives	The graduate <ul style="list-style-type: none"> - learns the importance and treatment of stroke risk factors and the milestones of stroke prevention, - acquires knowledge of the treatment of stroke in children and adolescents, - learns all essential aspects of the diagnosis and treatment of sinus and venous thromboses.
Course contents	Block 5.1: Stroke Risk Factors, Covert Stroke, Stroke Prevention Block 5.2: Stroke in the Young and Children Block 5.3: Venous and Sinus Thrombosis

Module 6: Haemorrhagic Stroke

Learning objectives	The graduate <ul style="list-style-type: none"> - comprehensively learns all aspects of clarification, acute treatment and prevention of intracerebral and subarachnoid hemorrhages.
Course contents	Block 6.1: Intracerebral Hemorrhage Block 6.2: Arteriovenous Malformations and Developmental Venous Anomaly Block 6.3: Subarachnoid Haemorrhage and Aneurysms Block 6.4: Prevention Block 6.5: Current controversies and burning questions

Module 7: Guidelines and Education in the Field of Stroke

Learning objectives	The graduate <ul style="list-style-type: none"> - acquires an in-depth overview of the current stroke guidelines, - completes a simulation instructor course including the official certification EuSim Level 1 Simulation Instructor Course.
Course contents	Block 7.1: Guidelines Block 7.2: Simulation Instructor Course

Module 8: Stroke Networks & Stroke Research

Learning objectives	The graduate <ul style="list-style-type: none"> - deals intensively with the organization of the stroke workflow and stroke networks, - receives a well-founded introduction to stroke research.
Course contents	Block 8.1: How to Organize Stroke Networks Block 8.2: From Bench to Bedside

Module 9: Stroke Unit Visit

Learning objectives	The graduate <ul style="list-style-type: none"> - completes a visit to at least 2 different stroke units or centers in Europe for a total of 3 weeks.
Course contents	Practical experience

Master Thesis

Learning objectives	The graduate <ul style="list-style-type: none"> - writes an MAS thesis on a current topic of stroke treatment.
Course contents	Intensive examination of a relevant topic of stroke treatment