

PRECISE-MRI

Title: **PRE**vention of **C**erebral **I**schemia in **S**tent Treatment for Carotid Artery Stenosis – A randomized multi-center phase II trial comparing Ticagrelor versus Clopidogrel with outcome assessment on **MRI** (PRECISE-MRI)

Trial number: NCT02677545

Sponsor investigator and Principal Investigator: Prof. Dr. med. L. Bonati, Universitätsspital Basel und Reha Rheinfelden

PI KSA: Prof. Dr. med. K. Nedeltchev

Status: recruiting

Summary: Carotid artery stenting (CAS) is an emerging treatment for atherosclerotic carotid stenosis. The main adverse event is embolic stroke during the procedure. Current medical management to prevent peri-procedural embolisation consists of dual antiplatelet therapy with clopidogrel and acetylsalicylic acid (ASA). Ticagrelor, a novel reversible inhibitor of the platelet adenosine diphosphate receptor P2Y₁₂, was superior to clopidogrel, as add-on therapy to ASA, in preventing stent thrombosis, cardiovascular outcome events, and death in patients undergoing coronary artery stenting, without causing an increase in major bleeding events. The main objective is to investigate whether ticagrelor is superior to clopidogrel as add-on to ASA in preventing ischemic brain lesions occurring as a result of CAS assessed on magnetic resonance imaging.