CHALLENGE
Stroke is the third most common cause of death in developed countries and every year 15 million people worldwide suffer from one. Fast and accurate assessment of medical imaging, such as CT, is of utmost importance for early diagnosis and patient selection. With new treatments options the decision making progress regarding choice of these treatment will become more complicated meaning clinicians need to be better informed.

TECHNOLOGY PORTFOLIO
Nico-lab’s portfolio contains several validated and fully automatic analysis tools: Final infarct volume, Subarachnoidal hemorrhage quantification, ASPECTS (automated), Collateral score, and Thrombus perviousness.

VALIDATION
Nico-lab demonstrated the usefulness of the tools during the successful completion of the widely accredited MR CLEAN trial. In this randomized clinical trial, 500 ischemic stroke patients were assessed to determine the benefits of intra-arterial treatment (IAT) over standard care. Results showed that Nico-lab’s software was highly reliable and accurate. The technology was further validated through analysis of the HERMES consortium, a retrospective pooled-analysis study of the 5 largest trials in stroke investigating IAT. Nico-lab also supported the imaging of 190 patients in the PATCH trial which researched treatment in intraparenchymal haemorrhage. Nico-lab is also the contracted core-lab in the prospective EARTH trial, overseeing acquisition and analysis of cerebral MRI data from 670 patients after TAVI.

SOLUTION
More advanced and faster decision making substantially improves the quality of life of patients with acute stroke. Nico-lab has developed a portfolio of novel tools that automatically manage, quantify and analyse radiological images of acute stroke patients. By using Nico-lab’s tools physicians can interpret CT scans in a fast and objective way allowing them to assess stroke severity objectively and make quick, calculated decisions on treatments and monitoring.

CLOUD BASED SERVICES
Nico-lab offers its services via a cloud based architecture. Your neurovascular images can be sent to us for automated analysis resulting in a report with clinical relevant biomarkers for fast and optimised patient selection. On top of receiving this report we offer the option of advise from independent leading stroke experts.

VALUE
Nico-lab contracts as a core lab, offering high value objective quantification for image analysis, as well as data management and project coordination. With the experienced and multi-disciplinary team Nico-lab delivers high quality, scientific results. Nico-lab’s aim is to impact the lives of many stroke patients by implementing the technology into standard clinical practice to improve diagnosis and patient selection.