**Mission Statement**

The aim of the project is the development of a new intraaneurysmal implant with flow modulating properties for the neurointerventional therapy of vascular aneurysms in the brain (so-called cerebral aneurysms). Despite considerable progress in implant development and neurointerventional art in recent years, major challenges remain to reduce recurrence rates and complications during the elaborate interventional process. The main cause of recurrences is the lack of sealing of the aneurysm by the implants, which leads to the re-circulation of blood and thus to renewed growth of the aneurysm.

**Approach**

The innovative implant with its 3D structure is intended to simplify implantation and provide an ideal seal for the aneurysm. Challenges to be solved in the realization are the development of the construction of the filigree carrier structure, the research and development of a functionalized, fiber-reinforced membrane for sealing and vascular wall regeneration as well as the combination of these elements.

The successful implementation of the project will make an important contribution to improving treatment options for patients to prevent haemorrhagic stroke. Furthermore, the participating NRW companies will be able to hold their own in the tough international competition with the innovative medical product and contribute to value creation in the state through economic exploitation.

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