

From basics to essentials
From diagnostics to in vivo-research

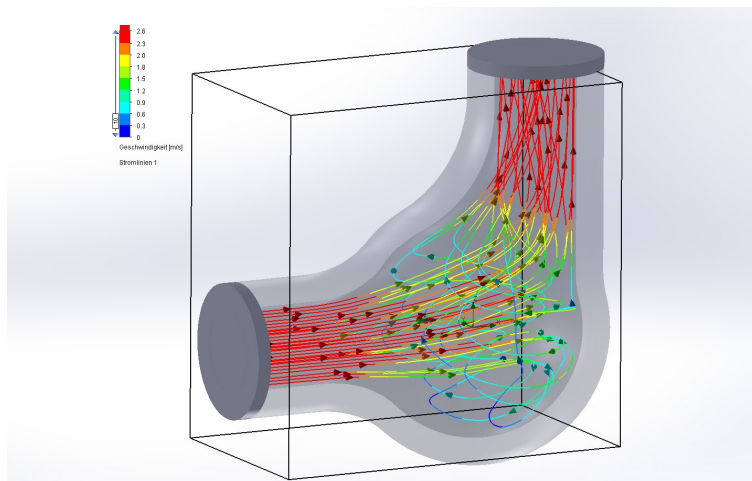
Hemodynamic Flow Simulation

We provide studies dealing with the simulation of blood flow based on various variants of flow parameters.

Under certain circumstances blood flow deviates from that of an ideal Newtonian fluid (homogeneous model fluid) due to its special rheological characteristics. This leads to certain consequences (coagulation, immunology, vascular wall interaction by shear stress etc.) for organs and the blood itself.

Via a special software we can simulate and visualize the physical flow behavior of blood with regard to thermal conditions in various implantation designs and different material characteristics.

On the one hand, with this development times can be reduced as time-consuming test procedures are decreased. On the other hand, the product shows a quality which cannot be reached only by research. Therefore, patient risks caused by devices, which are relevant for an approval according to MPG, can be detected and minimized at an early stage.



ISO 9001 certified

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