



R'Tech Renaissance of Technology Corporation (R'Tech)

Medical modeling service based on the 3D CG images and 3D printing technology

RPMed

(Rapid Prototyping for Medicine)

'RPMed' is the realistic medical modeling service based on 3D CG modeling technology by images taken from CT or MR, as well as 3D printing technology.

'RPMed' contributes to improving the quality pre-surgery simulation and testing of high-end medical and diagnostic activities, such as the experimental blood flow analyses, the development of medical treatment equipments, and operational interventional radiology (IVR) trainings.



organ model



bone model



blood vessel model



skin model



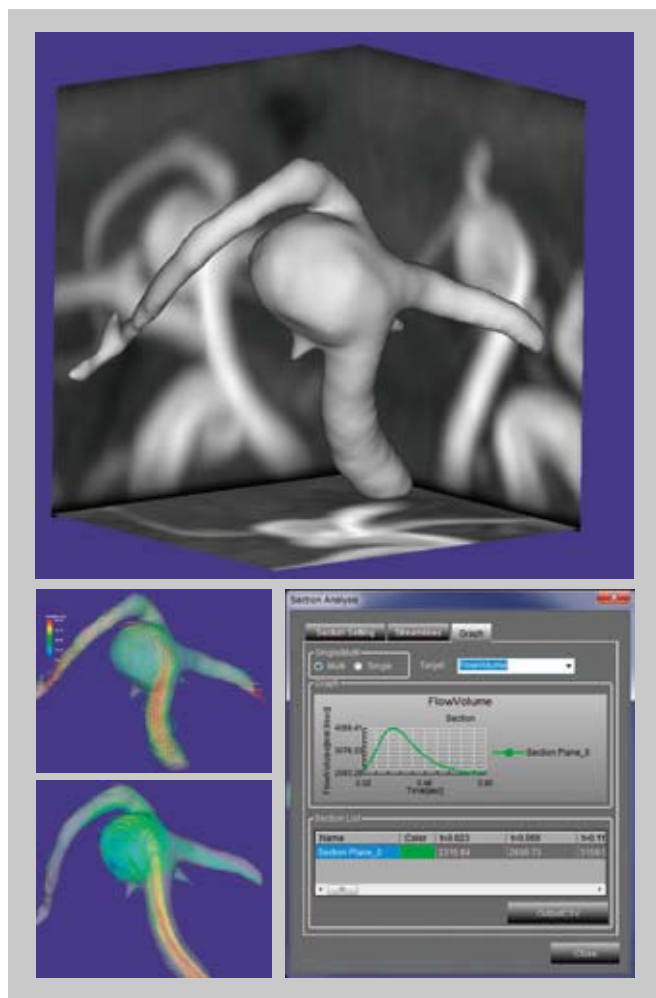
Dynamic analysis in human body by using MRImaging

Flova

(Flow Visualization and Analysis)

'Flova' is the software for visualizing and analyzing the blood vessel flow, using the 4D-flow data of MR Imaging.

'Flova' enables to directly analyze the blood flow in human body and indicate the flow velocity distributions and the wall shear stresses in the blood vessel, which is useful for clinical therapy such as the intravascular treatment of aneurysms.



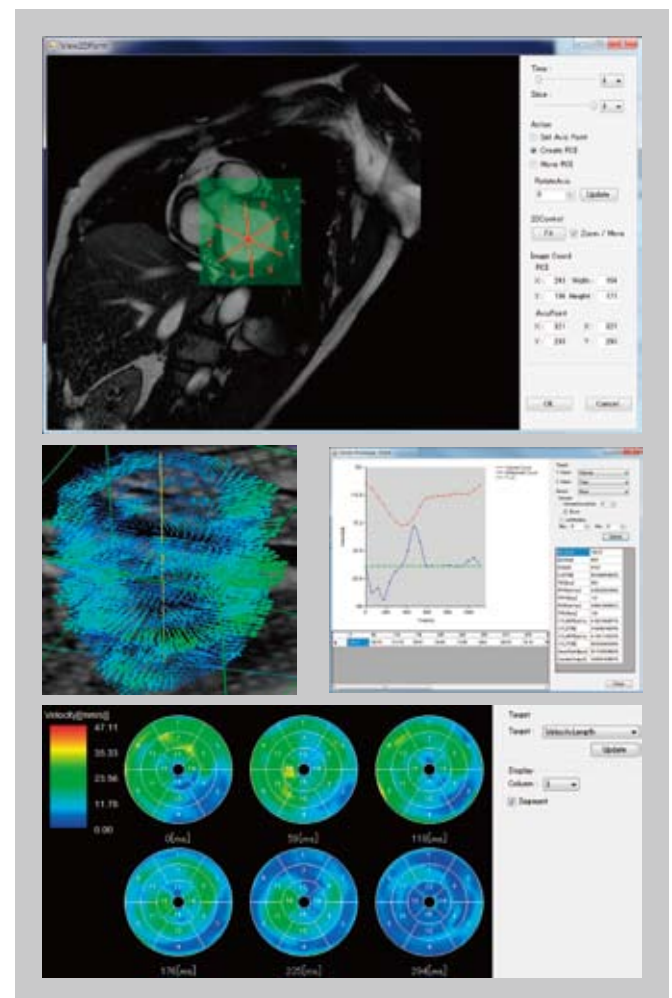
blood flow analysis in brain aneurysm

CardioDyna

(Dynamic Analysis for Myocardium)

'CardioDyna' is the software based on MR Imaging data (cine/Tagged MRI), to obtain and view the entire myocardium movement in 3D.

'CardioDyna' makes it possible to generate the 3D shapes modeling, obtain the cardiac volume curves and evaluate the quantity of displacement and velocity by the 3D motion of the myocardium.



3D motion analysis of myocardium