3D movie and demo experiment are being displayed!!

OSHIMA LAB.

[Bio fluid mechanics, micro-fluid and biochemical system]

Department of Mechanical and Biofunctional System / Center for Research on Innovative Simulation Software

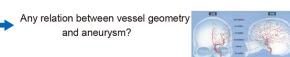
http://www.oshimalab.iis.u-tokyo.ac.jp/

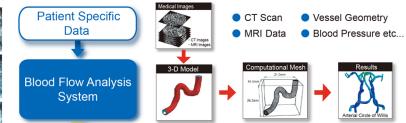
Research Field: Computational Fluid Dynamics

Department of Mechanical Engineering

Background / Purpose

- The 2nd Highest Rate of Death in Japan
 - · Cerebrovascular disorders
 - → 10%%-subarachonoid hemorhage
 - → 90%%-rupture of cerebral aneurysm
- Characteristics in formation of aneurysm
 - · Preferential location such as bend, bifurcation
 - · Preferential age groups between 40's and 50's



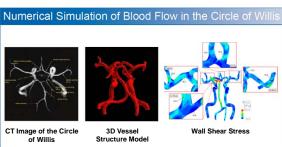


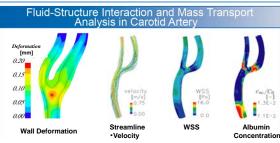
Research Aim

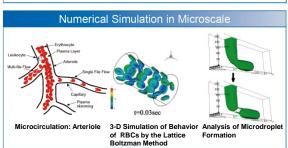
Macro [mm∼cm]

- Investigation of the effects of vessel geometry on the hydrodynamics
- Development of an integrated hemodynamic simulation system for clinical diagnosis

Computational







Experimental

