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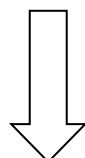
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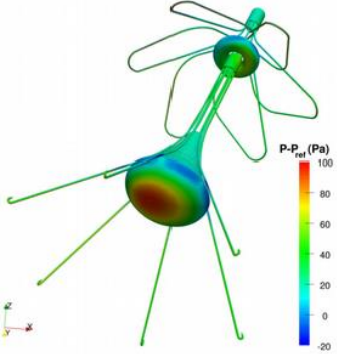
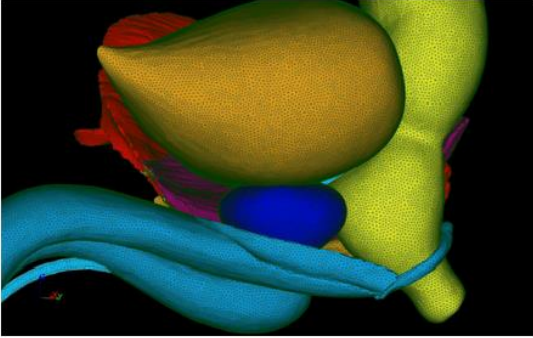
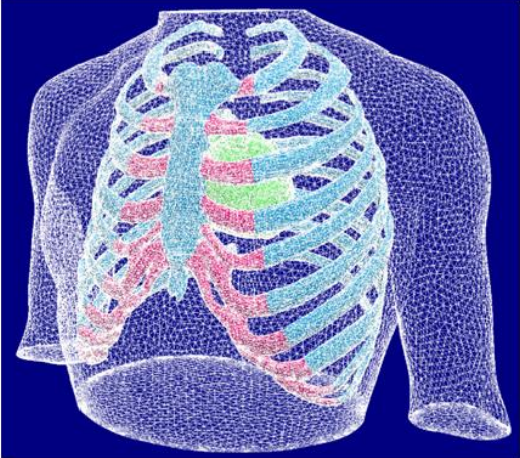
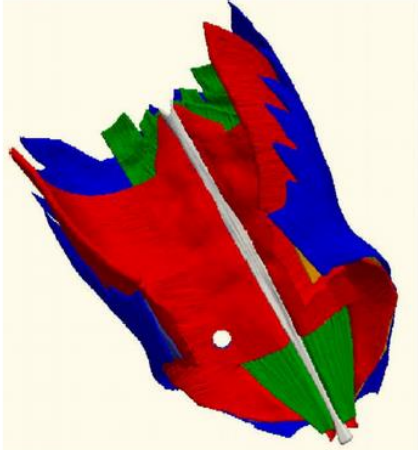
See Group MEDSIM activities



Medsim is a group of URV, whose topics of interest involve problems in Biomechanics, studied by means of numerical simulations done with freely distributed open source software.

Our interest focuses on problems arising in medical practice and immediate application, with the aim of improving the quality of life of the population and social benefit. Our goal is to develop new methods and processes that can be made available to the scientific community.

In our work we usually use: gmsh, mfront, Salome Meca, Code Aster, Paraview, OpenFoam, 3DSlicer ... although we specifically focus on OpenFoam, mfront and Code Aster.

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| <p>Hemodynamics of blood flow after implantation of inferior vena cava filters, including the presence of thrombi or not.</p> | <p>Localization of lesions in the prostate by CT for the prediction of their location in guided ultrasound.</p> |
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| <p>Effectiveness of cardiopulmonary resuscitation maneuvers, localization and repetition. With the aim of improving the action protocol.</p> | <p>Study of the dynamics of the human abdominal wall, to determine the stability in the creation of stomas and the risk of recurrence in hernias</p> |

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