



Contact Details and Pictures illustrating the Work

Project No: 242008

Project Acronym: LifeValve

Project Full Name: Living autologous heart valves for minimally invasive implantable procedures

List of LifeValve Beneficiaries

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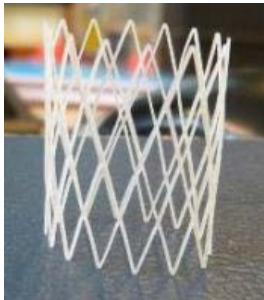


Pictures Illustrating the Work

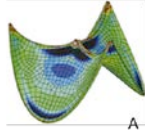
RESEARCH & DEVELOPMENT

Computational design and production of decellularized tissue engineered heart valves

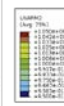
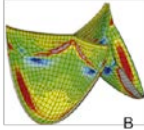
Biodegradable stent



Previous Design



Improved Design



Delivery system



Implantation of the valve



The dTEHV sewn in a nitinol stent is carefully crimped down to the desired diameter and then loaded into the delivery device.



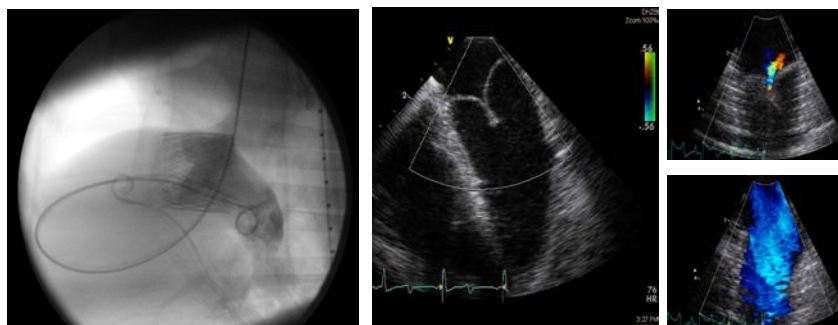
The implantation site is located by angiography.

Introduction of the delivery system.

Release of stent at implantation site.

PRE-CLINICAL TRIALS

Evaluation of the implanted valve



After implantation the opening diameter and location of the stent as well as the function of the valve are evaluated by intra cardiac ultrasound and angiography.