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IN ANATOMICAL HUMAN
VASCULAR REPLICAS

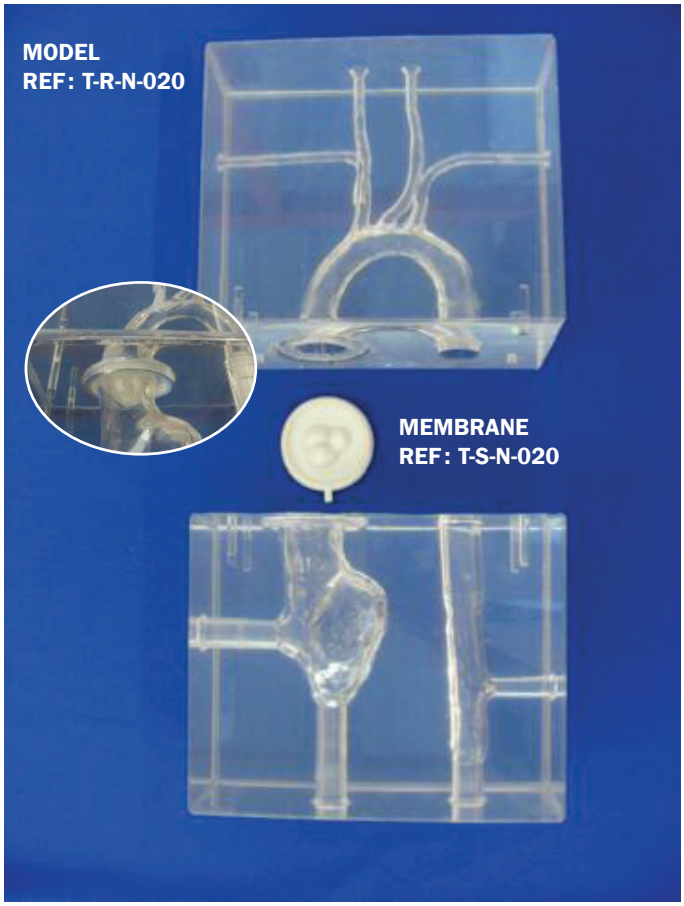
THORAX RIGID
REF: T-R-N-020

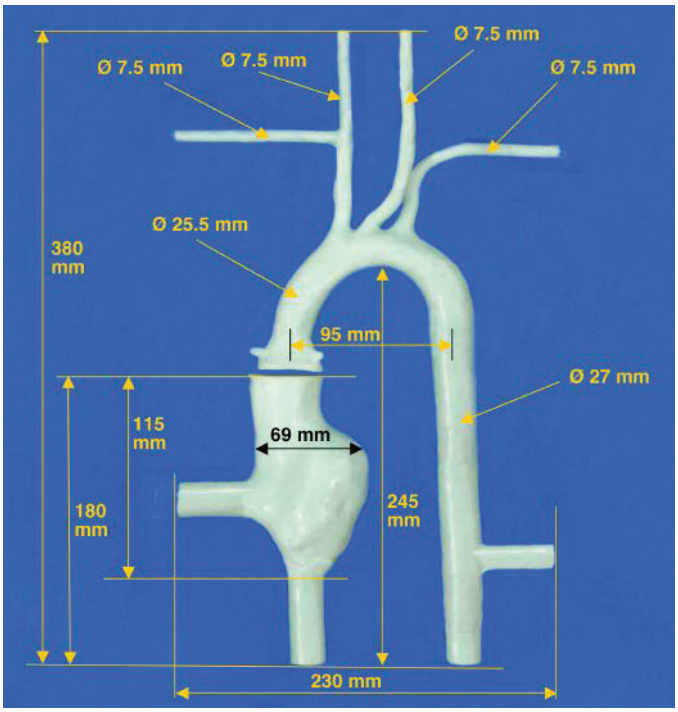
TRANSCATHETER VALVE SIMULATOR HEART MODEL
Developed with Dr.Ch.Huber

The Transcatheter Valve Simulator is an anatomically designed aortic implantation model composed of the left ventricular outflow tract, an exchangeable aortic valve, the aortic root with the left and right coronary orifices, the complete aortic arch with supraaortic vessels and the descending aorta.

All parts have been designed in close collaboration with Dr. Ch. Huber, a Swiss Cardiovascular Surgeon and Pioneer of the Trans Apical Procedure to guaranty for a most realistic and anatomically correct Transcatheter Valve simulation platform.

One of the distinctive features is the disposable aortic valve that can easily be exchanged after several implantations by the exceptional split-bloc construction of the transcatheter valve model. Furthermore, the specific design makes recovery of the implanted device quick and simple. The system also provides the necessary connection to a continuous or pulsatile flow generator in order to create physiologic flow dynamics and wet-lab functionality.





Additionally, the unique design allows for a bidirectional approach including the antegrade transapical as well as the retrograde percutaneous access.

The see-through silicon concept not only supports and enhances interventional training but also provides an ideal platform for Valved Stent development and in-vitro testing.

ELASTRAT replicas are compatible with modern imaging modalities such as digital subtraction angiography, computed tomography and magnetic resonance imaging. Providing the use of an adequate circulating fluid, Doppler techniques can also be performed. The in vitro models transparency to light makes them suitable for video and photographic monitoring.

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