

State of the Art

Simulation Solutions and Mock Circulatory Loops

Vascular Device R&D

Cardiac Device R&D

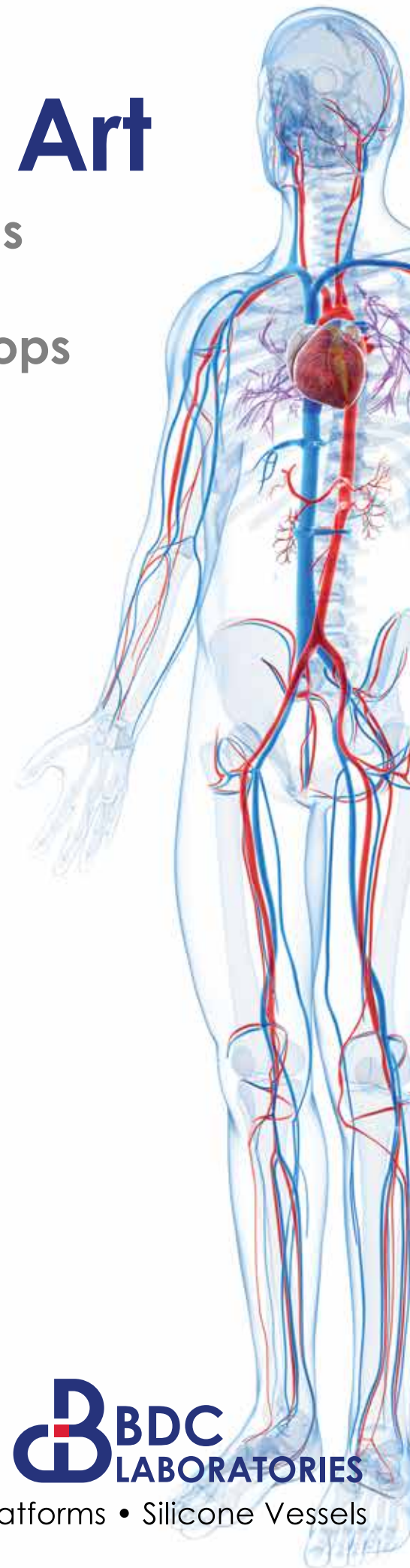
Delivery Systems R&D

Marketing

Clinician Training



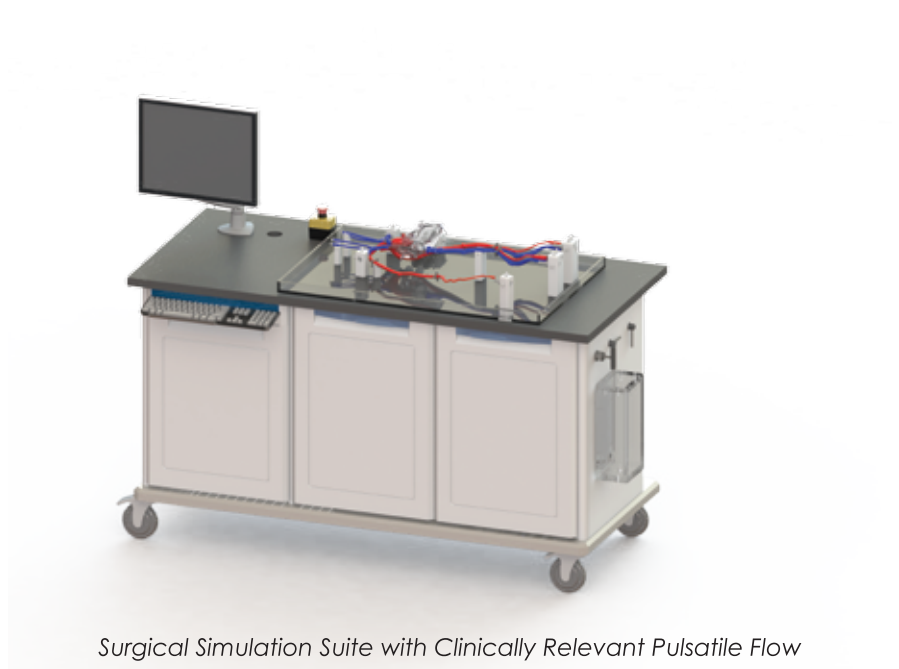
Medical Device Testing & Equipment • Simulation Platforms • Silicone Vessels



Over 40 years of experience supporting the world's most advanced endovascular device, heart valve and catheter companies has given BDC Laboratories a unique understanding for implementation of clinical simulation systems.

At BDC Labs, we are proud to be the only turnkey simulation solutions and mock circulatory loop provider in the world that also tests endovascular and cardiac devices in our own ISO/IEC 17025:2005 accredited laboratory while manufacturing world-class heart valve and endovascular device test equipment. Advantage? Our bench Simulation Systems and Mock Circulatory Loops embody the most advanced, cutting-edge understanding of endovascular devices, heart valves and device delivery technology and usage. Bar none.

Anyone can make a silicone model. Only BDC Labs offers simulation solutions based on decades of actual in-house device testing.



Surgical Simulation Suite with Clinically Relevant Pulsatile Flow

Simulation Success Starts Here



Starting with your design requirements for a simulated use system, BDC melds a fundamental understanding of cardiovascular fluid dynamics, arterial wall mechanics and endovascular and cardiac device technologies to deliver a turnkey simulation solution that provides the highest levels of:

- Clinical simulation
- Operator experience
- Technical sophistication

Our healthy and diseased silicone anatomies are routinely used to build mock circulatory loops (MCL) for the widest range of endovascular and interventional cardiac simulations available. Normative and Clinical anatomies in 2D and 3D configurations support the diverse requirements of R&D, marketing and training professionals.

Silicone anatomical models are defined from CAD models or patient-based anatomy and can be modified, if necessary, to meet your specific requirements and the simulation needs.

Device & Delivery System R&D

BDC Labs offers advanced levels of bench scale simulation fidelity, allowing you to investigate the biomechanical implications of endovascular and cardiac device design parameters.

Our simulation solutions help address challenges encountered during proof of concept, design verification, ergonomic, engineering and regulatory studies.

Marketing

Leverage BDC's 'true to life' simulation systems to address audience-specific interests and concerns, differentiate your device from competitive offerings, drive early adoption and generate meaningful clinical discussions with KOLs and your end-users.

Our simulation systems are perfect for one-on-one demos or for group events at trade shows or hospitals.

Choose the solution that's right for you. Carry. Demo. Close deal. Repeat!

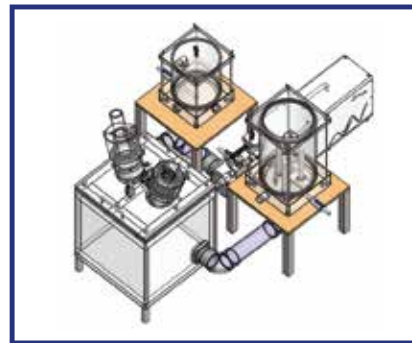
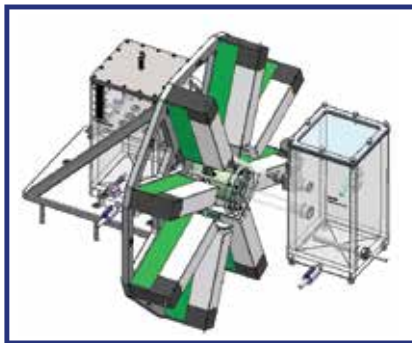
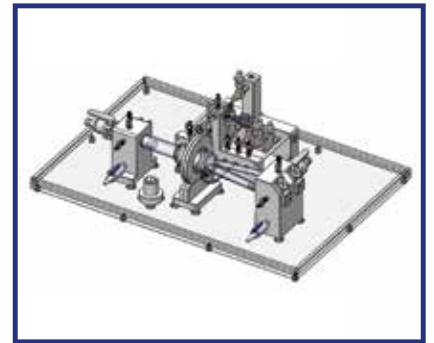
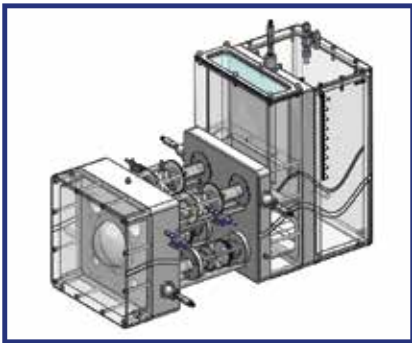
Clinician Training

Internal:
With BDC's customized simulation solutions, you can deliver tailor-made training programs on new devices and procedures to address the needs of your marketing team and new hires.

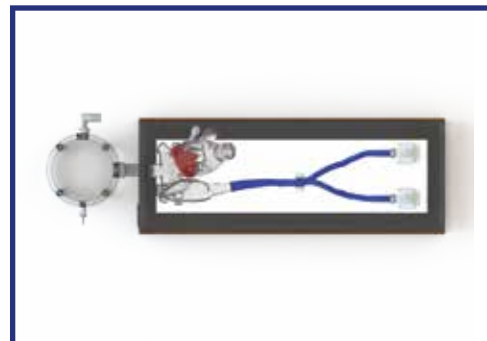
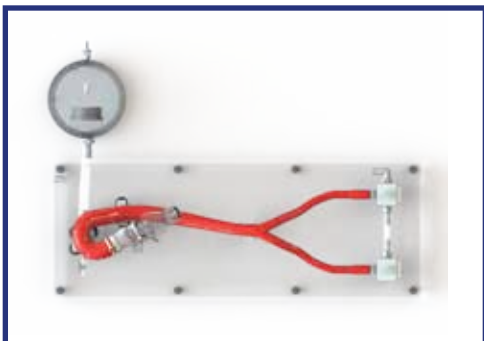
External:
We offer very realistic simulation solutions that encompass the most challenging clinical situations in device interventions, building confidence in clinicians with hands-on training.

A World of Custom Simulation Possibilities

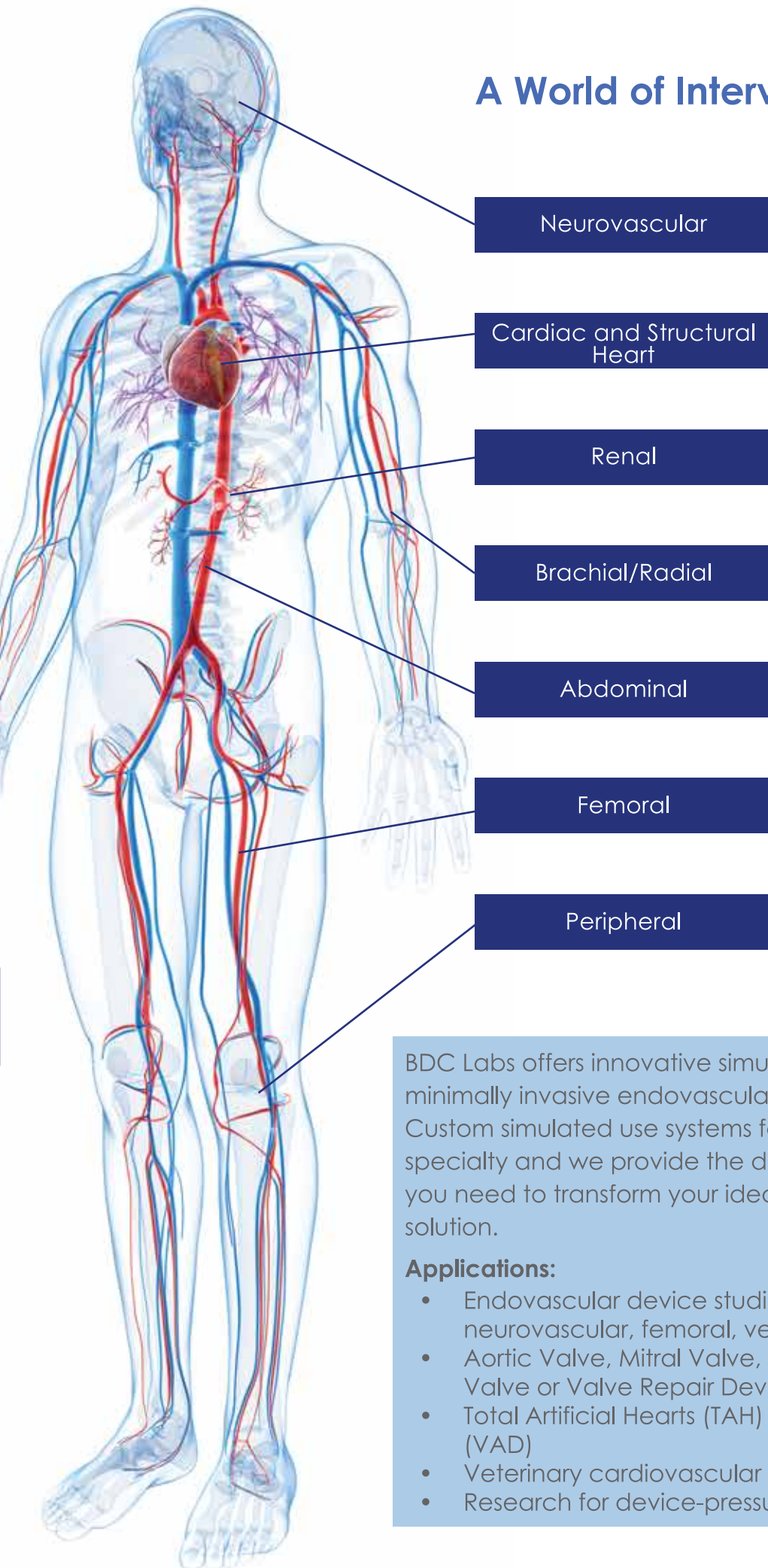
BDC Labs is the go-to simulations provider no matter what clinical environment you have in mind. We design and build every simulation system based on your specific simulation objectives and requirements, whether it is proof of concept, design verification, design optimization, marketing to interventionalists or training clinicians. If you can imagine it, we can build it!



BDC Labs' extraordinary knowledge, expertise and in-house resources create cost-effective, highly customized simulated use solutions.



A World of Interventional Simulations



Neurovascular

Cardiac and Structural
Heart

Renal

Brachial/Radial

Abdominal

Femoral

Peripheral

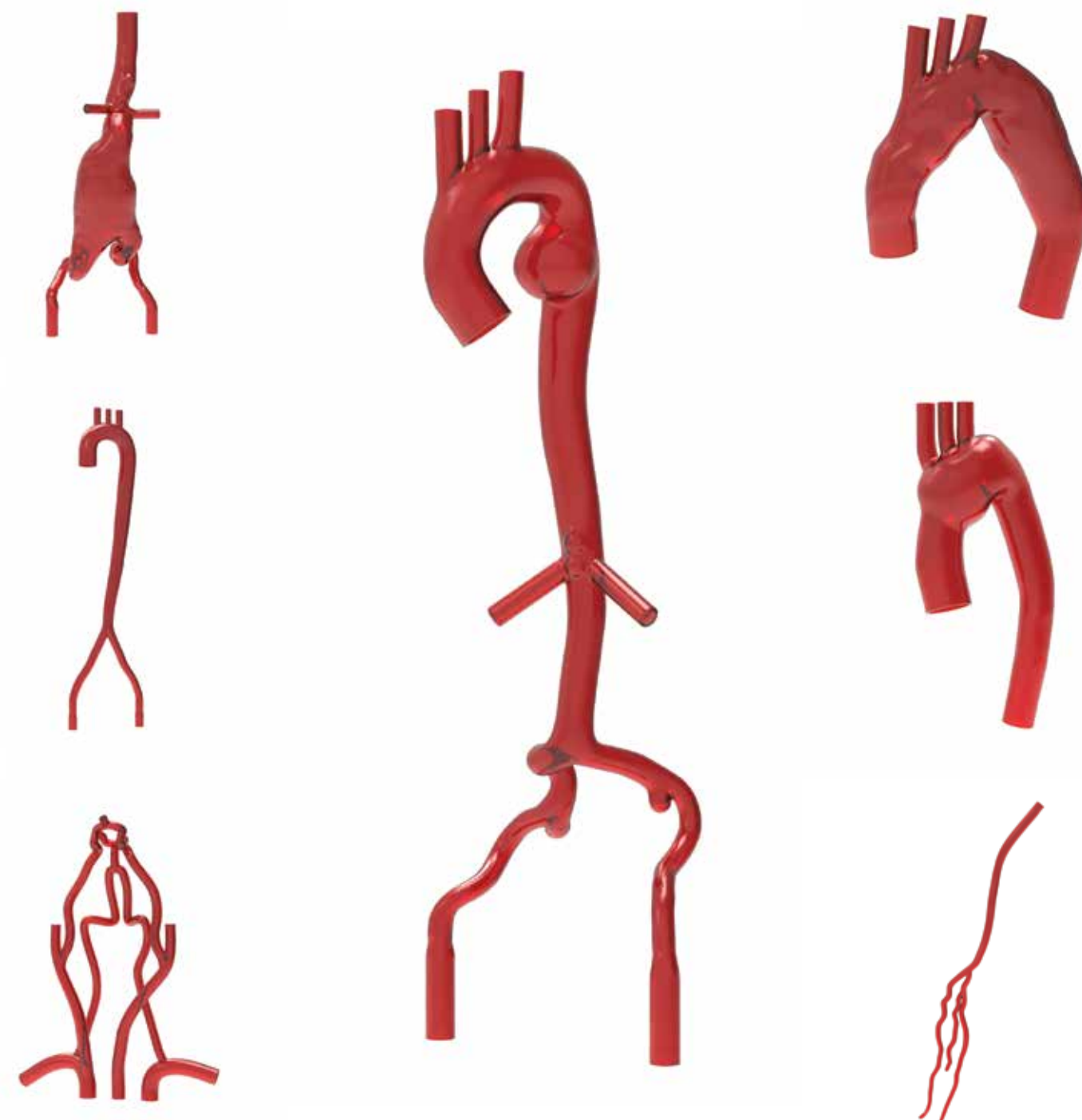
BDC Labs offers innovative simulations solutions for virtually any minimally invasive endovascular, cardiac or delivery device. Custom simulated use systems for complex applications are our specialty and we provide the design and fabrication expertise you need to transform your idea into the perfect simulation solution.

Applications:

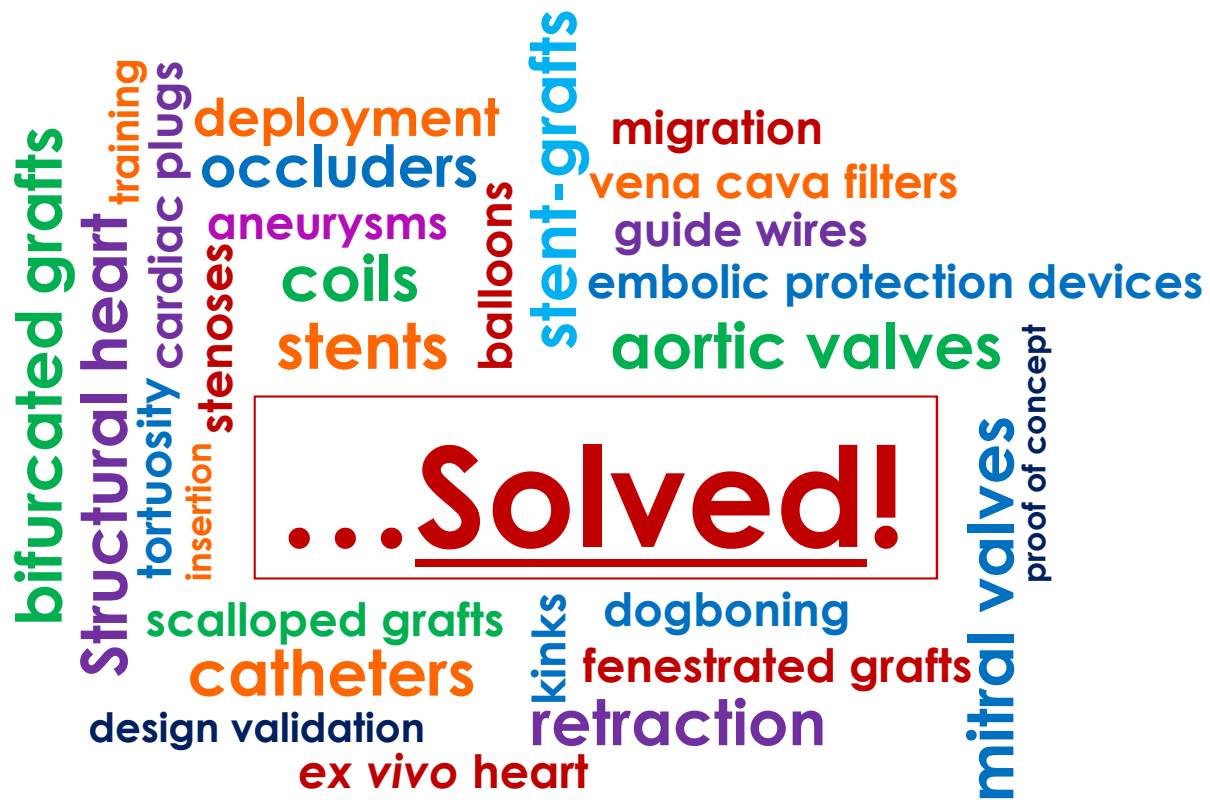
- Endovascular device studies (aortic, peripheral, carotid, neurovascular, femoral, venous, and pulmonary)
- Aortic Valve, Mitral Valve, Pulmonary Valve, or Tricuspid Valve or Valve Repair Device evaluations
- Total Artificial Hearts (TAH) and Ventricular Assist Devices (VAD)
- Veterinary cardiovascular flow studies
- Research for device-pressure-flow interaction

A World of Silicone Anatomies Designed for Simulations

BDC Labs offers a wide range of silicone anatomies designed for cardiovascular simulations for endovascular and cardiac prostheses and associated delivery devices. These anatomies are available in 2D and 3D formats as well as Normative and Clinical luminal configurations.



A World of Endovascular and Delivery Device Challenges...



"I didn't know you could simulate that!"

Yes, we hear that frequently from our customers. No matter your endovascular or cardiac prosthesis or delivery device, no matter the challenge you face, BDC Labs can tailor-make the right simulation environment to fit your needs!

What do you want to simulate today?



Medical Device Testing & Equipment •
Simulation Platforms • Silicone Vessels

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