

# J750 Digital Anatomy Solutions

## Bringing Medical Models to Life



### Moving From Visualization To Simulation

- Accelerate your time to market and increase adoption of your new technology with the J750 Digital Anatomy Solutions
- Create a life-like vascular environment in a range of pathologies for product testing and surgeon training
- Validate performance
- Test and train anywhere
- Reduce the costs and inconveniences of cadaver and animal labs

## Digital Anatomy Applications: Vascular

Stratasys® collaborated with leading medical device companies, hospitals, and research institutions to replicate the look and feel of actual vessels to bring you validated vascular applications.

Each application is functional, realistic and accurate, mimicking the look and feel of human anatomy — all made possible by our new digital materials unique to the J750™ Digital Anatomy™ printer.

### Accuracy

- Create fine vascular structures down to 1 mm internal diameter and 1.5 mm wall thickness
- Mimic vessel compliance by varying the wall thickness of individual vessels
- Replicate healthy and diseased tissue with the touch of a button and the printer does the rest — vessel compliance is automatically varied accordingly

### Realistic

- Clinically realistic haptic feedback to device insertion and deployment

### Functional

- Simulate clinical procedures for physician training and device development
  - Insert guide wires and catheters
  - Deploy devices (TAVR, AAA graft, LAAC)
  - Simulate actual blood flow with active flow loop
  - View calcifications under fluoroscopy
- Speed design verification and validation
  - Obtain quantitative, objectively measurable performance data
  - Validate and verify new devices to achieve their intended objectives, faster and within budget

For more  
information, contact  
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Stratasys models allow us to re-create human anatomy reflective of the nuances of different tissue consistencies from blood vessels and soft tissue organs to arteries, veins and bone.

These models give us the best opportunity to re-create human physiological conditions on a structural basis to simulate clinical situations and study new devices to establish their effectiveness before introducing them into patients.”

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