## THE DATA IS IN
**Proven anatomical realism you can see and feel.**

A study comparing the biomechanical properties of porcine tissue to 3D printed myocardium found that Digital Anatomy printed models **mimic real tissue better** than any other material.[1]

3D printed cardiac models corresponded to chambers of the porcine heart at anatomically relevant thicknesses.

- **See** the accurate biomechanical behavior associated with gender, age, ethnicity, and other physiological and pathological characteristics.
- **Feel** realistic feedback while suturing, cutting, inserting, and deploying devices.

**For more information, contact**
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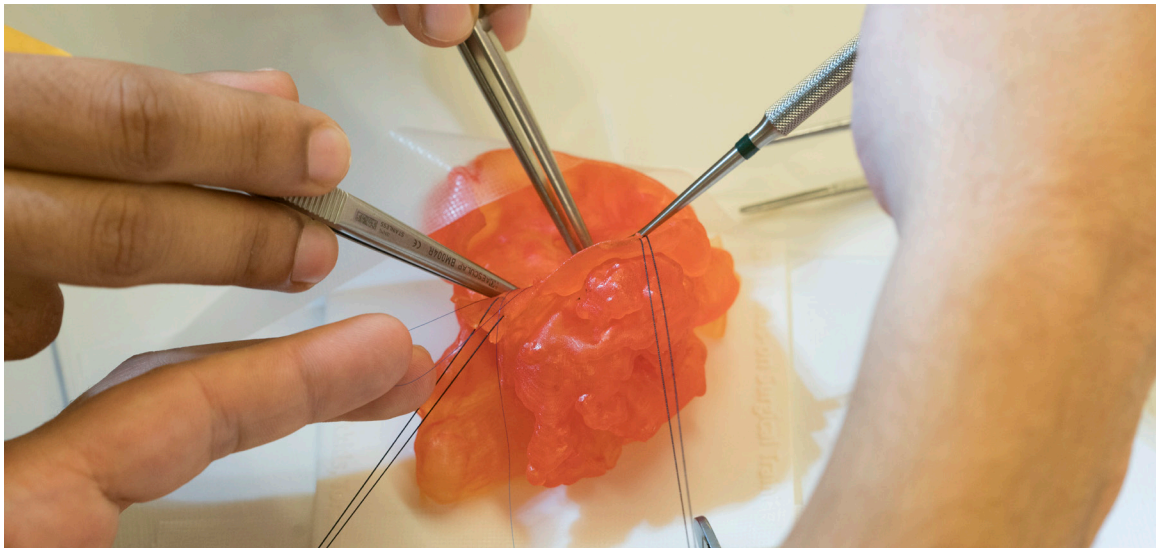
# J750 Digital Anatomy™ Solutions
# Better preparation. Better outcomes.



## Digital Anatomy Applications: Cardiac

Models created with the Digital Anatomy Printer from Stratasys replicate the same biomechanical properties as cardiac tissue to provide exceptionally realistic training—all at a cost reduction of up to 70% compared to fabricated simulators, animals, and cadavers.

With highly repeatable surgical preparation, you can create consistency across the continuum of care—better surgical skills, improved patient outcomes, and fewer hospital readmissions.

**Provide better clinical training.**

### Accurate

Biomechanical testing demonstrates that Digital Anatomy printed materials create biomechanically accurate, patient-specific myocardium and fine anatomy such as cordae tendineae and valve leaflets.

### Realistic

- Mimic the feel and response of heart tissue with ultra-soft material.
- Recreate hearts with functioning cords, annulus, valves and calcification.
- Flexible material allows for navigation of tortuous anatomy.

### Functional

- Simulate clinical procedures for physician training in a risk-free setting.
- Feel realistic, consistent feedback while cutting and suturing, inserting and deploying devices, and patching.
- Standardize delivery of care.

stratasys

“These 3D printed models have tremendous value in developing surgeons’ skills ... students agreed the 3D printed heart models were tremendously helpful for them.”

Shi-Joon Yoo, MD, PhD
**Cardiac Radiologist**
**Hospital for Sick Children, Toronto, Canada**

1 Severseike et al., “Polyjet 3D Printing of Tissue-Mimicking Materials: How Well Can 3D Printed Myocardium Replicate Mechanical Properties of Organic Myocardium?,” bioRxiv (2019), doi: 10.1101/825794.

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