

# PATHOLOGICAL HEART



## Product Guidelines

- Designed for advanced surgical training, specializing in pathology-specific simulations and pre-operative planning.

## DESCRIPTION

Designed for advanced cardiac simulation and educational purposes, this high-fidelity model accurately replicates the anatomy and biomechanics of the human heart. Utilizing advanced PolyJet™ technology, the unit blends specific photopolymers to mimic the compliance and elasticity of real cardiac tissue, bridging the gap between rigid anatomical models and cadaveric specimens.



## KEY FEATURES & PATHOLOGIES

- **Structural Pathologies:** Accurate simulation of common structural heart defects and intracardiac anomalies (e.g., septal defects, valvular pathologies, or intracardiac masses).
- **Multimaterial Realism:** The model differentiates between tissue types, featuring transparent walls for internal visualization and colored components for pathological targets.
- **Haptic Fidelity:** Engineered to match the resistance and elasticity of the myocardium and major vessels, providing realistic feedback during handling or device deployment.

## ANATOMICAL COMPOSITION



- Pathological Lesion (Tumor, Thrombus, or Target Anatomy)
- Myocardium & Heart Walls (Soft/Flexible)
- Aorta, Pulmonary Artery & Valves (Rigid/Semi-rigid)



## WARNINGS AND SAFETY

- **Storage:** Store at room temperature away from direct sunlight and heat sources to maintain the integrity of the silicone components and printing materials.
- **Intended Use:** This product is intended exclusively for educational and medical simulation purposes.