EYE PHANTOM

IMQ

ISO 13485:2016

3D INNOVATION LAB

HU HUMANITAS UNIVERSITY

Product Guidelines

→ Designed for advanced ophthalmic surgery training, specializing in retinal surgery and subretinal injections

DESCRIPTION

Designed to address the gap in posterior segment simulation, this high-fidelity model overcomes the limitations of anterior-only standards. Its mechanically tested, layered structure ensures realistic haptic feedback for subretinal injections and bleb formation. The unit features an intraoperative lens for internal visibility and a sclera that replicates real tissue resistance for accurate trocar insertion.

KEY FEATURES & PATHOLOGIES

- Subretinal Injection: Validated model specifically designed to train and simulate complex subretinal fluid injection procedures.
- Realistic Bleb Formation: The layered architecture allows for the lifting of tissue, accurately mimicking the fluid dynamics seen in live surgery.
- Haptic Fidelity: The sclera material is engineered to match the resistance of the human eye, providing realistic feedback during Trocar insertion.
- Posterior Segment Access: Fills the gap in the market by providing a valid training platform for retinal surgery and epiretinal peeling.

ANATOMICAL COMPOSITION

- CAPILLARY VESSELS
- OPTICAL NERVE
- FOVEA
- SUBRETINAL BLEB INDUCTION

EPIRETINAL PEELING

TEXTURED EXTERIOR

WARNINGS AND SAFETY

- **Intended Use**: This product is intended exclusively for educational and medical simulation purposes.