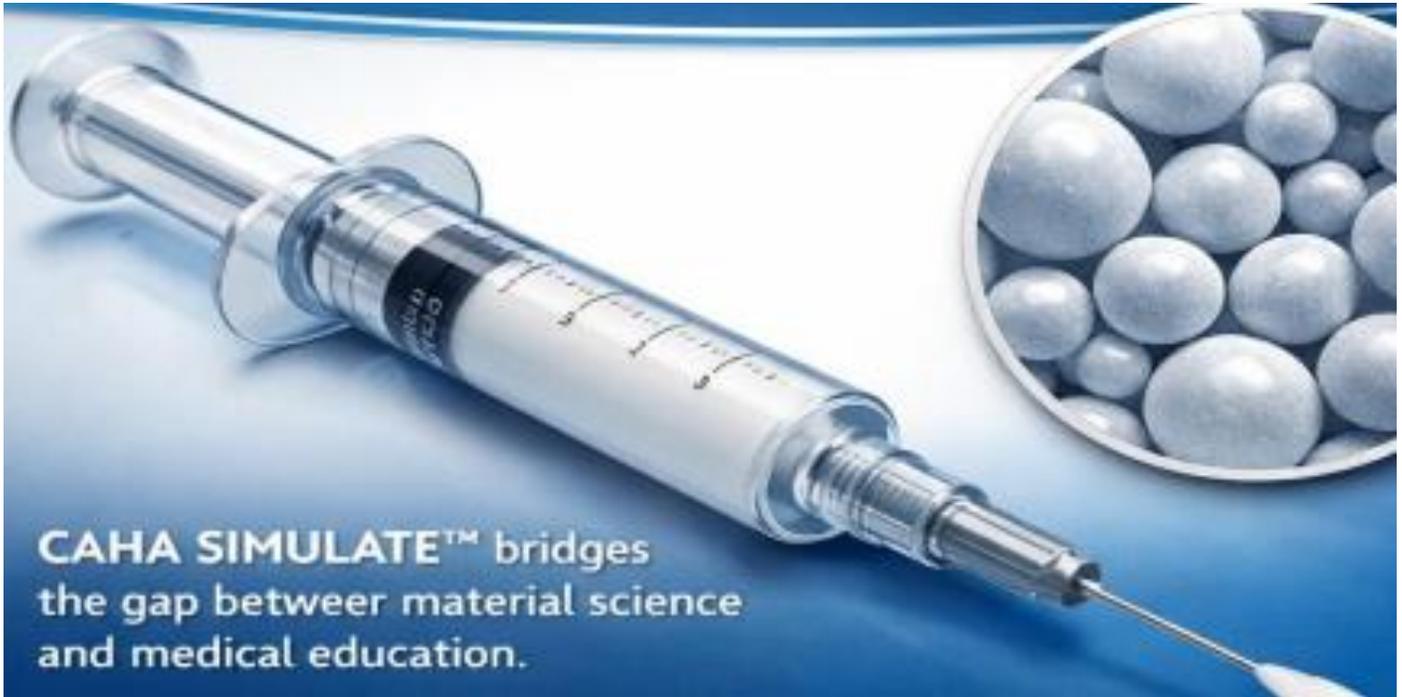


CAHA SIMULATE™

Precision Haptics. Non-Clinical Economics.

The World's First Rheologically Identical Calcium Hydroxylapatite Training Material.



CAHA SIMULATE™ bridges the gap between material science and medical education.

CAHA SIMULATE™ bridges the gap between material science and medical education. We provide the exact viscoelastic performance of Class III dermal fillers and Class II vocal implants without the regulatory overhead or cost of human-grade devices. Designed exclusively for Surgical Simulation, Device R&D, and Radiology Phantoms.

THE SCIENCE OF SIMULATION

Why train with generic gels when you can use the authentic chemistry?

CAHA SIMULATE™ is formulated using the same raw materials and sintering protocols as FDA-approved implants, omitting only the final sterilization required for human use.



Stoichiometric Accuracy: Composed of synthetic Calcium Hydroxylapatite ($\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$) microspheres suspended in a Sodium Carboxymethylcellulose (CMC) and Glycerin carrier.

True Viscoelasticity: Replicates the high Elastic Modulus (G') and complex viscosity (η^*) of clinical fillers, ensuring realistic resistance during supraperiosteal and subdermal injection training.

Radiopaque Visibility: Inherently visible on CT, X-ray, and Fluoroscopy, enabling precise depth validation in cadaveric and phantom studies.

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CAHA SIMULATE™

CORE APPLICATIONS

1. AESTHETIC & SURGICAL TRAINING

Eliminate the financial burden of using expired clinical inventory. CAHA SIMULATE™ provides the authentic "crunch" and extrusion force required to teach:

Supraperiosteal Bolus Technique: High G' material that resists flattening, mimicking deep bone augmentation.

Vector Planning: Realistic tissue integration and "lift" capacity for jawline and chin contouring workshops.

Cannula Navigation: Replicates the shear-thinning behavior of CaHA during subcision and retrograde fanning.

2. MEDICAL DEVICE R&D

Accelerate verification and validation (V&V) testing for next-generation delivery systems.

- Extrusion Force Testing: Validated for ISO 7886 syringe performance testing.
- Needle/Cannula Patency: Standardized 25–45 µm particle size ensures consistent flow through 27G needles without clogging.

3. IMAGING PHANTOMS

Calibrate CT and X-ray equipment using a material that mimics the radio-density of human bone mineral. Ideal for training radiologists to distinguish between filler deposits and pathology.

TECHNICAL SPECIFICATIONS

Parameter	Specification	Clinical Relevance
Microsphere Size	25 – 45 µm	Standard for facial/hand soft tissue augmentation.
Composition	~30% CaHA / 70% Gel	Matches volume/mass ratio of leading implants.
Carrier Gel	Na-CMC + Glycerin	Replicates shear-thinning extrusion profile.
Particle Morphology	Smooth, Spherical	Ensures smooth flow; mimics osteoconductive scaffold.
Sterility	Non-Sterile	FOR EDUCATIONAL/LAB USE ONLY.

CAHA SIMULATE™

THE COMPLETE TRAINING ECOSYSTEM

Material + Anatomy = Proficiency.

Advasaf has partnered with Ultrassist, the leader in high-fidelity medical simulators, to offer bundled training solutions. Combine the rheological precision of CAHA SIMULATE™ with anatomically correct silicone models for a "Turnkey" skills lab.

FEATURED BUNDLES

The "Dorsal Hand" Restoration Kit

Material: 5x Syringes of CAHA SIMULATE™ (1.5cc).

Model: Ultrassist Geriatric IV/Injection Hand.

Objective: Master the laminar plane separation between the dermis and superficial fascia. Visualize the masking of tendons and veins using the opaque CaHA paste.



The "Jawline & Chin" Contouring Kit

Material: 10x Syringes of CAHA SIMULATE™ (1.5cc).

Model: Ultrassist Injection Head with bony landmarks.

Objective: Practice deep periosteal depot placement. Experience the high viscosity required to project tissue against muscle pressure.



The "Hyperdilution" Workshop Kit

Material: 1x Bulk Jar of CAHA SIMULATE™ (50mL).

Model: Ultrassist Multi-Layer Suture/Injection Pad.

Objective: Train staff on mixing protocols (1:1 to 1:4 dilution with saline) for skin tightening and neocollagenesis stimulation.



CAHA SIMULATE™

ORDERING INFORMATION

CAHA SIMULATE™ is available in three formats to suit your facility's needs:

- Standard Training Pack: 10 x 1.5cc pre-filled syringes (Luer Lock).
- Laryngeal/Urology Pack: 10 x 0.8cc syringes (Precision Volume).
- Bulk Lab Jar: 50mL or 100mL jars (Ideal for R&D and large workshops).

REGULATORY NOTICE

CAHA SIMULATE™ is classified as a Non-Clinical Simulation Material.

NOT FOR HUMAN USE. This product is non-sterile and has not undergone viral inactivation or pyrogen testing required for human implantation.

Labeling: "For Training/Research Use Only."

Disposal: Contains biodegradable calcium phosphate; safe for standard waste disposal.

CONTACT US

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