

Bring Dental Simulation to Life

**Better training. Better testing.
Better patient outcomes.**

The future of digital dentistry is here.

- ✓ **Advance clinical excellence**
Deliver superior hands-on dental training.
- ✓ **Prepare for procedural complexity**
Practice advanced procedures with confidence.
- ✓ **Accelerate dental device R&D**
Validate and refine devices with precision.
- ✓ **Standardize training outcomes**
Reduce variability in clinical education.
- ✓ **Eliminate logistical and ethical barriers**
Move beyond cadaver and animal dependence.



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These models closely mimic real tissue, providing a natural tactile feel with standard instruments. Their value as a pre-clinical training tool is significant, offering a highly realistic experience before performing procedures on patients—truly a game changer in dental training.

Prof. Samer Srouji - Head of Oral and Maxillofacial Surgery Department & Head of the Galil College of Dental Sciences

Remove Risk. Remove Complexity.



Cadavers & Animals

Inconsistent.

Limited human accuracy;
degraded fidelity.

Limited.

Restricted to the "case" the
specimen provides.

High cost.

Procurement, storage,
disposal.

Restricted.

Limited to specialized labs or
surgical facilities.

Complex.

Requires strict ethical approvals
and biohazard permits.

Risky.

Infection and
contamination concerns.

VS



Anatomy & Realism



Customization



Cost & Logistics



Accessibility



Ethics & Regulation



Safety & Hygiene



Digital Anatomy®

High Fidelity.

Human-specific, highly
repeatable anatomy.

Fully Customizable.

Train for the case you
want - Not the one you get.

Low.

Cost-effective per unit; easy
to store and transport.

Portable.

No cold chain.
No lab dependency.

Simple.

No ethical concerns
or regulatory hurdles.

Safe.

Safer for institutions.
Safer for learners.

Controlled Pathology. Standardized Simulation.

Objective Assessment

Test every trainee on identical anatomy to create
a fair, standardized competency benchmark.

Scalable Training

Produce identical dental arches for any group
size at the touch of a button.

Consistent Practice

Master high-stakes procedures like sinus lifts
in a safe, repeatable, and on-demand setting.

Innovation Without Operational Burden.

Immediate Validation

Move from digital design to physical testing of
implants and guides in hours, not weeks.

On-Demand Evaluation

Shorten development timelines with predictable,
in-house biomechanically realistic simulation.

Competitive Marketing

Equip sales teams with high-fidelity models that
demonstrate device performance in any environment.

Dental Clinical Applications



Implantology & Oral Surgery

Implant placement and surgical tooth extraction



Endodontics

Root canal treatment



Periodontics

Flap surgery and sinus lift procedures



Restorative Dentistry

Crown and cavity preparation



Complex Pathologies

Management of complex dental pathologies



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The gingiva feels realistic and holds up well without tearing. Tooth extraction provides natural resistance during elevation and removal, closely resembling the feel in the mouth. The pulp also feels realistic and consistent, resulting in an overall highly lifelike experience.

Dr. Neal Postel, Doctor of Dental Surgery

Choose Your Anatomy in GrabCAD Print™



Implantology



Crown & Bridge



Root Canal Treatment



Extraction & Surgery



Digital Anatomy® Technology

Engineered for Growth and Innovation

Stratasys 3D printing optimizes your workflow from the classroom to the R&D lab by **making high-fidelity simulation an on-demand reality.**

The J5 and J850 Digital Anatomy® 3D printers produce biomechanically accurate models that mimic human anatomy. Create patient-specific pathologies in-house to enhance surgical prep and accelerate device innovation.



Materials that Push Boundaries

Innovative materials combined with advanced software empower you to create anatomical models that **replicate the look, feel, and biomechanical** behavior of human tissue and bone.

Bring dental training and innovation to life with **vivid, sterilizable, and biocompatible** models in multiple materials and colors - designed to perform like the real thing.

Digital Anatomy® Premium Materials

TissueMatrix®

The softest 3D material for realistic gingival texture.

BoneMatrix®

Replicates bone density for implant stability testing.

GelMatrix®

Easily cleaned from small cavities like root canals.

RadioMatrix™

High-visibility material for realistic X-ray and CT imaging.

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These anatomical models offer exceptional realism in gingival texture and response, enabling effective suturing and surgical simulation. Their structural integrity also supports implant placement and primary stability testing.

Dr. Thomas Farmaki, DDS, MSc,
Certified Implantologist



Consult with an Expert

