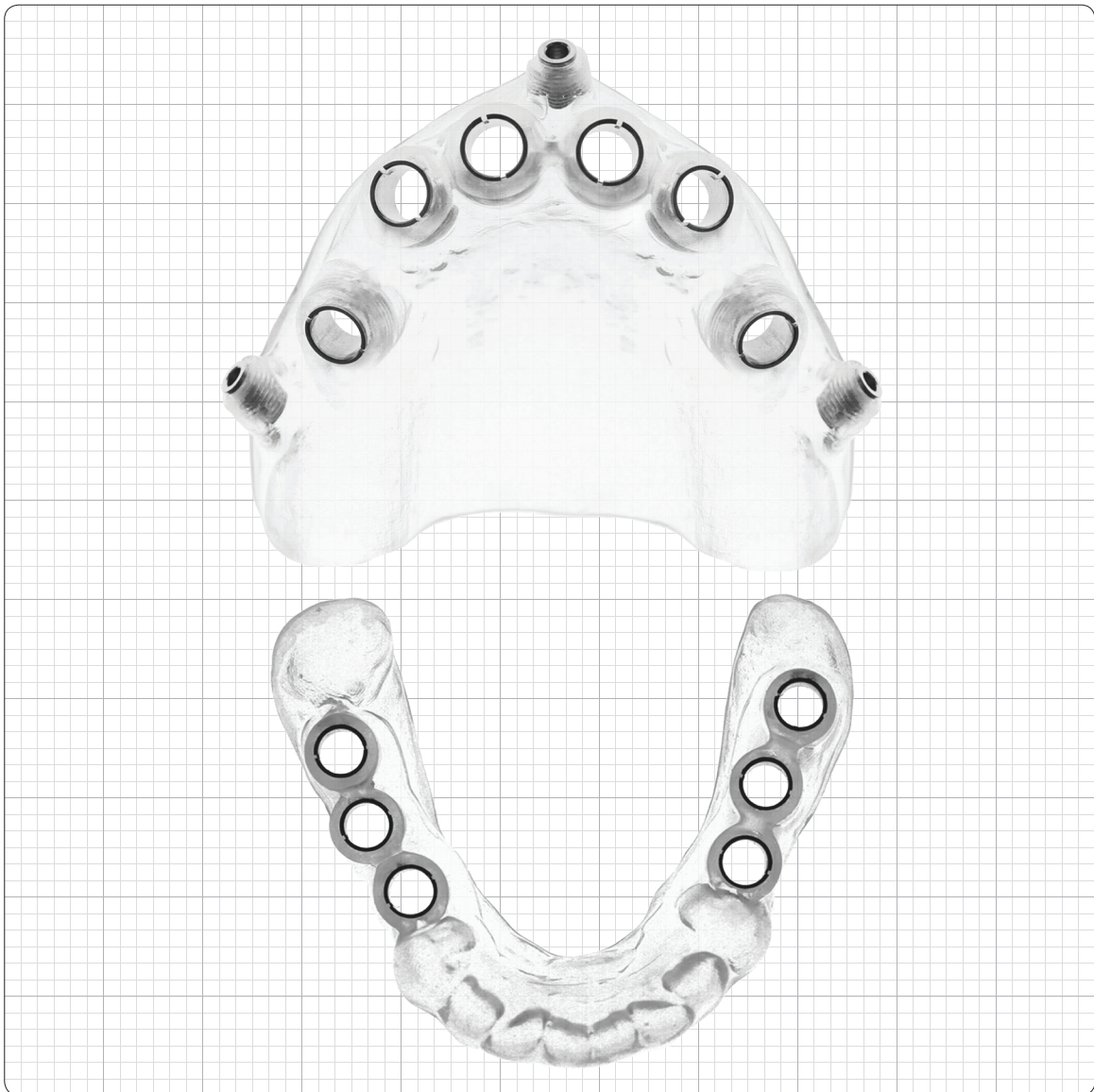


# *Anatmage* *Guide*



## The Most Refined Guided Surgery Solution

Anatomage's guide solution offers a highly refined system. Many doctors have tried other guided surgery systems, but were disappointed with the experience.

Anatomage's unique patented technology resolves the challenges commonly associated with guided surgery systems and provides significant benefits over other guided systems.

Our process is simple and straightforward, allowing doctors to submit their data in a variety of different ways, while ensuring an accurate and good fit.

We invite you to compare the Anatomage Guide System to others and experience the difference.



### MARKET LEADER

Anatomage is a global 3D dental application leader. With more than 10,000 doctors using our system, we have established a solid reputation in 3D dental applications.

Along with our software, numerous doctors find success with Anatomage Guide. Focusing on 3D imaging technology and innovation, we are able to achieve the highest level of quality, accuracy, reliability, and simplicity, further contributing to the success of our surgical guide system.

The complaint rate is very low and the adoption rate is much higher than other guided surgery systems.

- Consistent & Reliable
- High Adoption Rate
- High Satisfaction Rate

### PROVEN RELIABILITY

We take pride in our high satisfaction rate.

At Anatomage's headquarters in California, we produce a large number of guides every day, but we have an extremely low defect rate.

Our computer controlled digital production system is designed to streamline the process to drive high volume production in high accuracy.

On top of that, we have established a rigorous quality control process that is compliant with the FDA and their medical device regulations.

- Production Process Controlled by Custom Software System
- ISO 13485 Certified Quality Management System

### HIGH VALUE

Anatomage's philosophy is to put patient care before profit. Thanks to our efficient mass production system, Anatomage is able to produce intricate guides using high end materials at an affordable flat cost.

Our mission is to make technologically advanced surgery – a general practice.

We believe that affordability is an important factor in making guided surgery the standard of care.

- Low flat fee
- No per site charge

## Highly Accurate

Accuracy is the most important function of guide. Other guided surgical systems could suffer accuracy problems from multiple sources.

Anatomage has refined the design to minimize the problems. Anatomage Guide has a patented anatomical registration system that eliminates the error induced by radiographic markers.

The adaptive fit system allows a more conforming fit to the patient dentition minimizing guide movement.

Our fully digitized production system minimizes in-production errors.



- Anatomy based registration eliminates the radiographic marker error
- Adaptive snap fit minimizes rocking of the guide
- Computer controlled digital production system

## Simple & Flexible Work Flow



**STEP 1**  
Send Patient Data



**STEP 2**  
Review Files



**STEP 3**  
Send Implant Plan

One of the most challenging aspect of guided surgery is the complicated process. Many doctors are disappointed with the complexity of the work flow and the hidden costs associated with it.

Anatomage eliminates all the unnecessary processes to make it consistent for the doctors and their practices work flow. We simply need the patient CT scan and stone model information. We are flexible in terms of the actual format of the information.

Whether it is a physical stone model, CT scan, or digital mesh data, we accept the doctors' preferences and process them in-house.

After sending over the patient's CT and stone model information, Anatomage merges them together and make it available to the doctors for planning. Doctors can visualize both hard tissue, soft tissue, and restoration to plan the implant positions in InVivo5. Based on this final plan, we create the surgical guide.

### FABRICATED & SUPPORTED IN CALIFORNIA, USA

Our guide production and consultant teams are here to help you. We listen to your individual needs and find unique solutions that work for you.

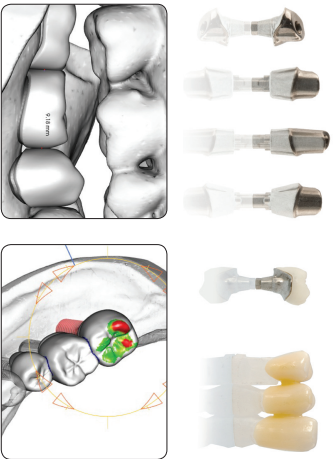
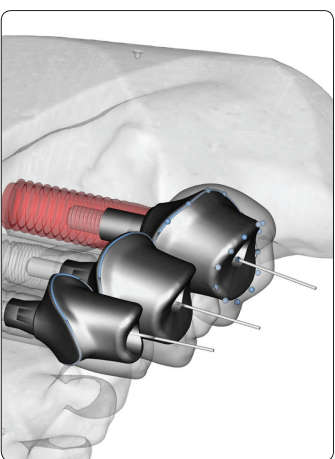
Our consultant team works diligently with our production team to ensure quality, accuracy, and on-time delivery for your guides.



## Restoratively Driven Implant Planning

Anatomage offers integrated solutions for implant surgery. Our restoration design tool allows you to plan provisional abutments and crowns based on your virtual implant plan before surgery.

Guiding the implant placement with our high precision surgical guides gives you the power to deliver same-day implant and immediate provisional treatment to your patients.



## Fully Compatible

### BRAND-SPECIFIC INSTRUMENTATION COMPATIBILITY

Anatomage Guide adapts to your work-flow. We are compatible with many major implant manufacturers and surgical guide kits. You have the flexibility of using your existing guided instrumentation or our universal guided kit.

- ◆ Nobel
- ◆ Biomet 3i
- ◆ Straumann
- ◆ BioHorizons
- ◆ Sweden & Martina
- ◆ Zimmer
- ◆ Camlog
- ◆ Implant Direct
- ◆ Astra Facilitate
- ◆ Hiossen
- ◆ Neoss

### Anatomage DRILL KIT



- ◆ Straight twist drills in 6 common diameters & 3 lengths
- ◆ Mechanical drill stop for precise depth control
- ◆ 2.35 RA type (universal latch type)
- ◆ Reusable

### Anatomage SHORT HANDLES



- ◆ Short handles match to drill sizes
- ◆ Change drill sizes without removing the guide
- ◆ Snap fit for hands-free ease
- ◆ Guidance for straight twist drills
- ◆ Reusable

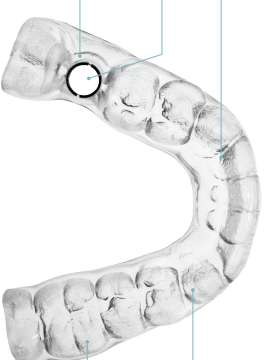
## Material Choice

We understand that each doctor has their own surgical procedures. Anatomage offers two types of material based on your preference.

MATERIAL TYPE	Clear Guide	Printed Guide
PRODUCTION	Biocryl	Biocompatible resin
FIT	Thermal forming over 3D printed mold	Direct 3D Printed Guide
ADVANTAGE	Adaptable to patient dentition	Exact fit to stone model
APPLICATION	Clear visibility	Rigid
	Tooth supported cases	Fully edentulous cases

### CLEAR GUIDE

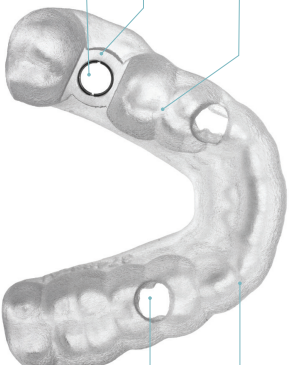
Superior fit  
Compatible to all major implant systems



Customizable fit for your preference  
Transparent material for better visibility

### PRINTED GUIDE

Improved sleeve retention for complicated cases  
Knotch aligned to hex orientation  
Compatible to all major implant systems



Rigid stable material for fully edentulous cases  
Inspection windows to ensure proper seating



# Clinical Applications

## BONE REDUCTION GUIDE

To achieve the highest level of surgical precision, Anatomage is able to guide your bone reduction procedure as well as implant surgery.

The bone reduction guide is a two-guide technique where guide coverage will rest on the bone surface after soft tissue has been reflected.

The first guide creates a visible window for you to accurately reduce the ridge. The second guide will fit to the reduced ridge to guide implant osteotomy. Anchor pins are used to help guide fixation.



## BONE SUPPORTED GUIDE

For fully edentulous cases that require bone grafting or reduction, Anatomage can provide a bone supported guide to rest over the ridge as you drill.

Guide coverage will rest on the bone surface of the edentulous arch after the soft tissue flap has been reflected. Anchor pins are used for lateral stabilization.



## IMMEDIATE EXTRACTION

Anatomage can virtually extract existing teeth in Invivo5.4 to fabricate surgical guides for immediate extraction and implant placement cases.

We can accommodate cases for single tooth extraction, bridge removal, full mouth extractions for dentate, and fully edentulous patients.



## FULLY EDENTULOUS

Anatomage has the ability to create mucosa or bone supported guides for fully edentulous cases. We understand that visualizing the prosthesis is an important part of your treatment plan.

Utilizing a unique barium sulfate lining technique, we eliminate the need to create a duplicate denture, thus reducing cost and streamlining work flow.



# Software

## Invivo5

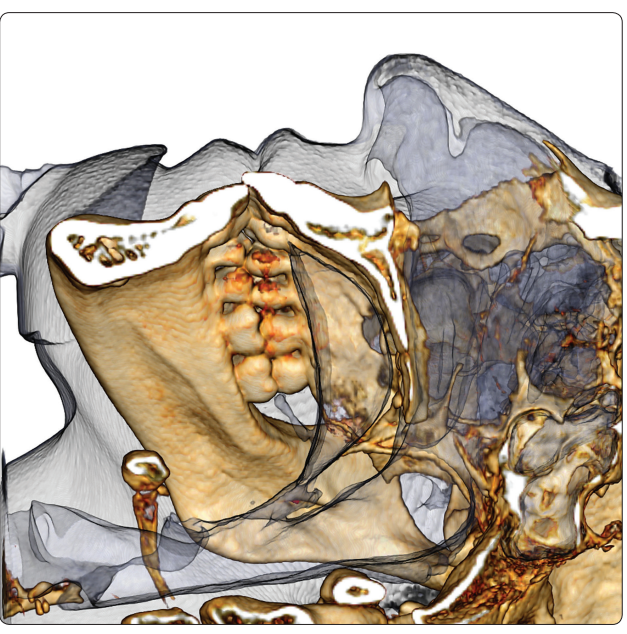
Anatomage Guide works exclusively with our award winning 3D imaging software—Invivo5.

Invivo5 allows you to virtually treat, plan your dental implant cases using CBCT DICOM data. Visualize the dental arch and establish ideal drilling trajectory and depth for every patient.

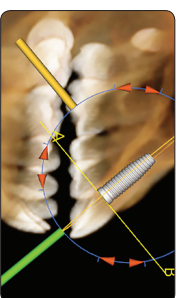
Compatible with CAD/CAM, you can implement restoratively driven implant planning and send the restoration plan to a lab for fabrication.

Choose from a selection of implants and restorations available in the library best suited for your patient.

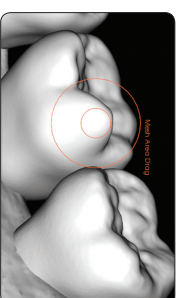
Ideal for patient consultation, Invivo5 makes it easy to demonstrate treatment procedures to patients chairside. Bring the highest quality care to your patients and your practice with Invivo5.



Advanced Volume Rendering



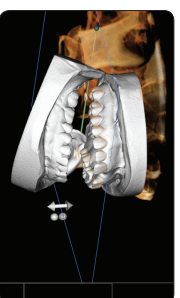
Implant Planning



Shape and Mold Restorations



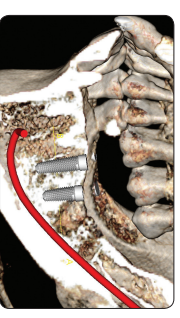
Shape Precise Abutments



Jaw Articulation



Sinus Graph Tool



Cross Section

## **ABOUT ANATOMAGE**

Anatomage specializes in 3D medical technology. Founded in 2004, Anatomage has been consistently growing and expanding throughout the years. The company office is located in San Jose, California, in the midst of many high tech companies. Inheriting the spirit of Silicon Valley, Anatomage is building the company with dedication, speed, innovation, and leadership.

Anatomage started as a 3D imaging software company and has grown to a full scale solution company. The product offering expanded to include: software, digital service, image guided treatment devices, and imaging equipment. Anatomage offers unique solutions for each clinical application:

For radiology, it offers high quality rendering and workup tools.

For implantology, it offers a simple procedure for image guided surgery solutions.

For orthodontics, it offers the only impression-less virtual model and full 3D analysis.

For surgical applications, it offers true 3D hard tissue and soft tissue reconstruction simulations.

For medical device design, it offers unique device and image fusion design solutions.

Anatomage is featured in many journal publications and research studies. We are dedicated to help individuals and institutions further their research and publish their work using our technology. Whether you are a clinician, researcher, laboratory, medical company, or imaging center, Anatomage has advanced and complete solutions for your needs. Please contact Anatomage about your interest. You may be surprised to find out what we can do for you.

Jack Choi, Ph.D.  
CEO  
Anatomage Inc.

*Anatomage*

# In vivo 6



*Anatmage*

[www.anatmage.com](http://www.anatmage.com)

## Why Invivo6?

### COMPLETE

With a complete range of inter-disciplinary applications, Invivo6 covers a broad spectrum of the medical field including: Implantology, Orthodontics, Oral Surgery, Radiology, Medicine, and General Science.

### PREFERRED

Invivo6 is used by many top private practices, major academic institutions, opinion leaders, and researchers around the world and consistently receives recognition\* from the dental industry.

### EFFORTLESS

3D imaging is complex, but 3D imaging software should not be. With the intuitive software, Invivo6, you will spend less time reading the manual, and more time treatment planning. The intelligent design of Invivo6 allows clinicians to fully utilize the software immediately.

### COMPATIBLE

Whether you own a Mac® or a Windows® PC, Invivo6 is compatible with both operating systems for optimal convenience.

## Did you know that Anatomage invented...

### THE FIRST 3D DENTAL VOLUMETRIC IMAGES

Before Anatomage, 3D dental imaging was primitive and inaccurate with mainly gray scale renderings. That all changed when Anatomage introduced their developments in volume rendering.

Anatomage's style of volume rendering has been quickly adopted within the medical & dental industry, and has set new standards with its ground-breaking technology.

### THE ONLY DYNAMIC CBCT

Anatomage broke the perception of static and frozen imaging with the invention of their Dynamic CBCT applications.

With applications like 3D superimpositions, surgical simulations, and Anatomodel, a new generation of Dynamic CBCT imaging was introduced.

Dynamic CBCT imaging became versatile, animated, and easily accessible.

### THE ONLY COSMETIC CBCT

The latest generation of 3D imaging by Anatomage merges two crucial records together: radiographic images and intra-oral photography.

By combining the two specialties of radiology and cosmetics together, Invivo6 ushers in a new age for Cosmetic CBCT.

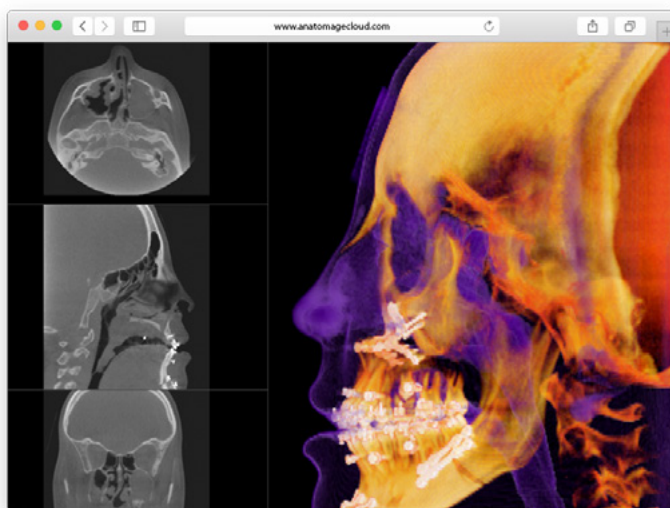
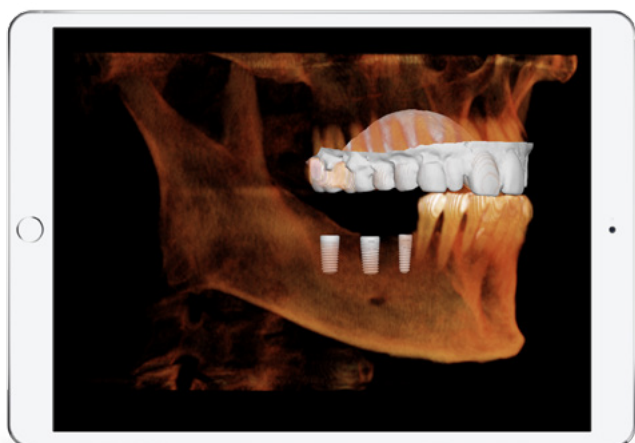
\*Townie Choice Awards and Pride Institute's Best of Class Technology Award



## Anatomage Cloud

Invivo6 makes sending cases much faster and easier by connecting to Anatomage Cloud. Directly from Invivo6, the case can be uploaded and sent through Anatomage Cloud - our cloud based 3D viewing platform. Quick collaboration is achieved as the case can then be accessed for web browser based viewing on any tablet, laptop, or mobile device. This brings a new level of collaboration and mobility to every practice.

- Quickly Connect and Collaborate with Ease
- Accessibility From Anywhere on Any Device
- No Software Installation
- Web Browser 3D DICOM Viewing
- Mobile, Laptop & Desktop



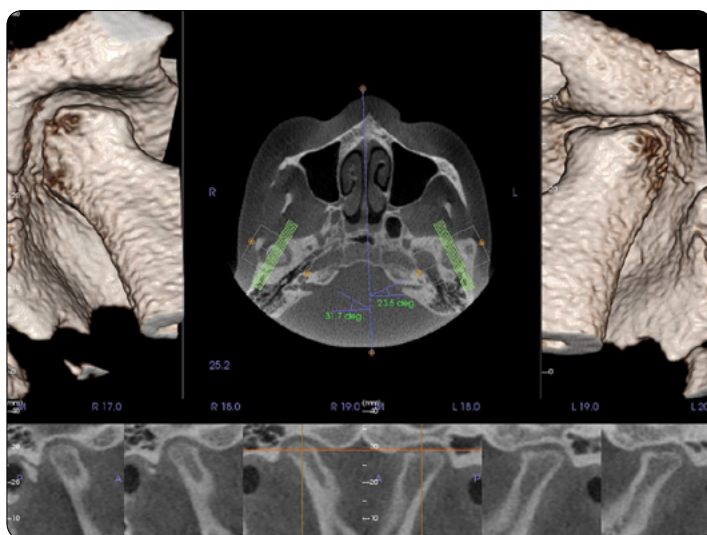
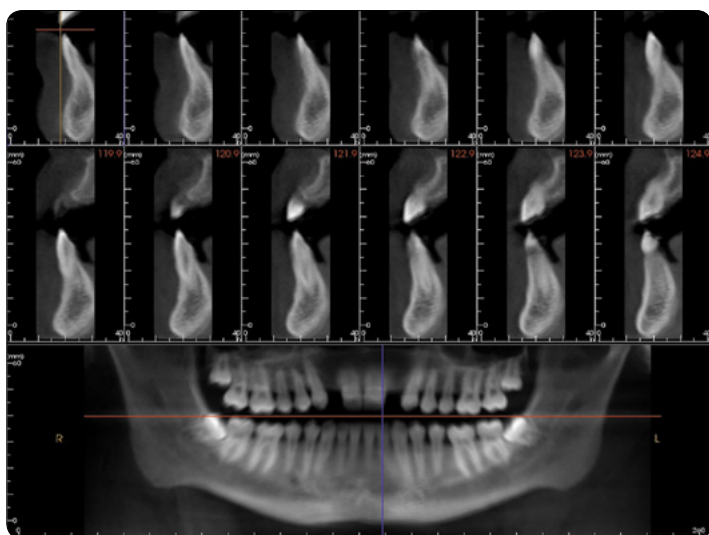
## Radiology Applications

Invivo6 opens up DICOM formats from Medical CT, MRI, Industrial CT, and Dental CBCT directly in the software. Furthermore, Invivo6 is PACS-compatible, enabling clinicians to retrieve patient cases for planning and subsequently exporting it back onto PACS when finished.

Cephalometric images. Print images in 1:1 life size formats with customized logo options and image notations. Easily share and organize cases with other doctors using the free Anatomage Cloud.

The software has easy and versatile radiology layouts for implant assessments, impactions, TMJ workups, sinus evaluations, and airway assessments. Personalize your anatomy profile preferences for convenience. Create familiar reconstructions such as Panoramic and

- Full DICOM Compatibility
- Quick & Easy Radiology Reports
- PACS Integration
- 1:1 Life Size Printing
- Easily Send Cases & Collaborate



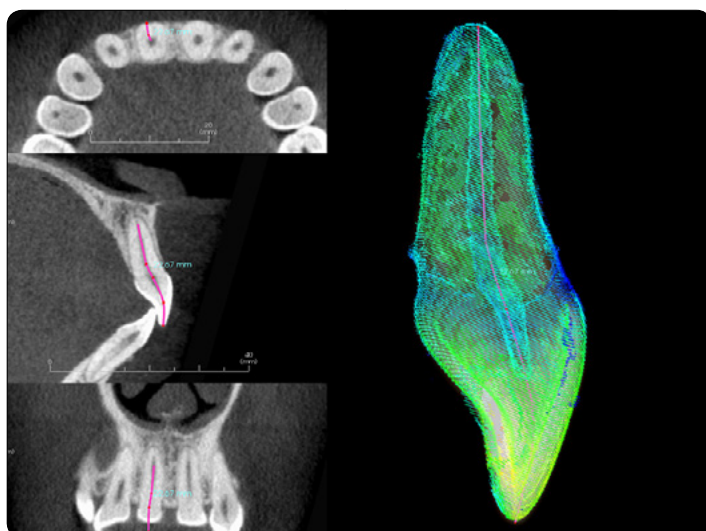
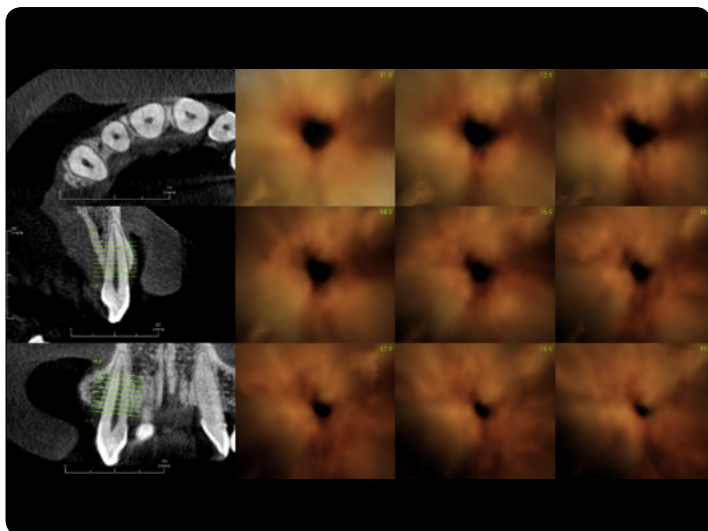


## Endodontic Applications

Invivo6 offers an intuitive and simple to use endodontic application for a more complete examination of both internal and external tooth structures. Clinicians can accurately visualize internal canal morphology; including root curvature, number, and location of canals. Highly accurate diagnostic imaging assesses prognosis and provides practitioners with the detailed anatomical information necessary for making confident treatment decisions. Quickly complete your endodontic surgery planning by making accurate working length

measurements based off your patients' 3D scan. This will eliminate surprises and minimize the need for exploratory surgery.

- Accurate working length measurements
- Visualize comprehensive internal canal anatomy
- Identify root fractures
- Determine prognosis & risk assessments
- Easy endodontic surgery planning & presentation

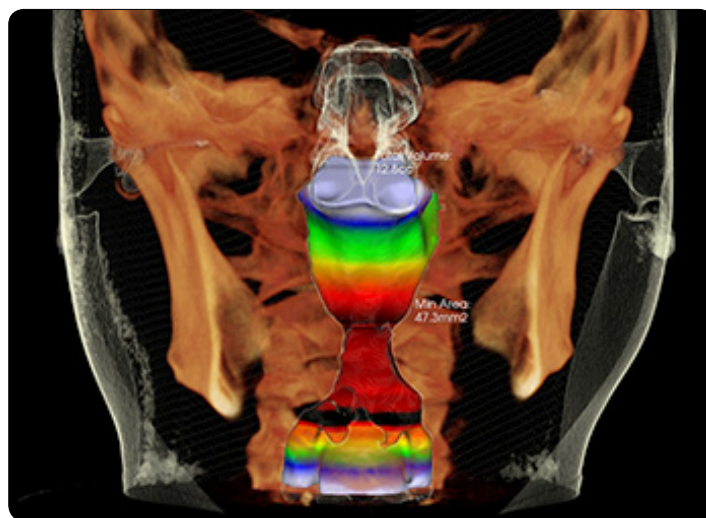
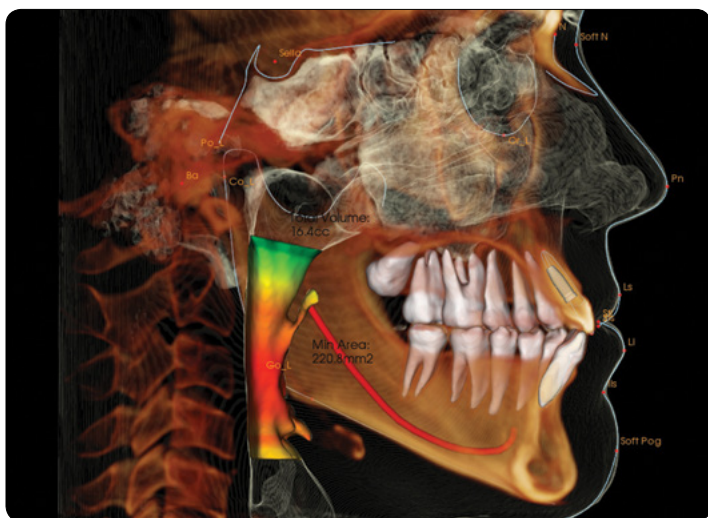


## Airway Analysis

A dedicated airway application manages all airway analysis. Accurately visualize the 3D volume of your patient's airway to gain a better understanding of their anatomy. Simultaneously make both nasal and airway measurements to identify obstructions, and then export airway data for further research. Simulate a virtual fly through of your patient's 3D airway model to better visualize internal airway anatomy and use for interactive

apnea consultations. Easily save an airway profile for future comparison scans and analysis.

- Simulate Virtual Airway Sequences
- Accurate Volume Measurements
- Airway Superimposition



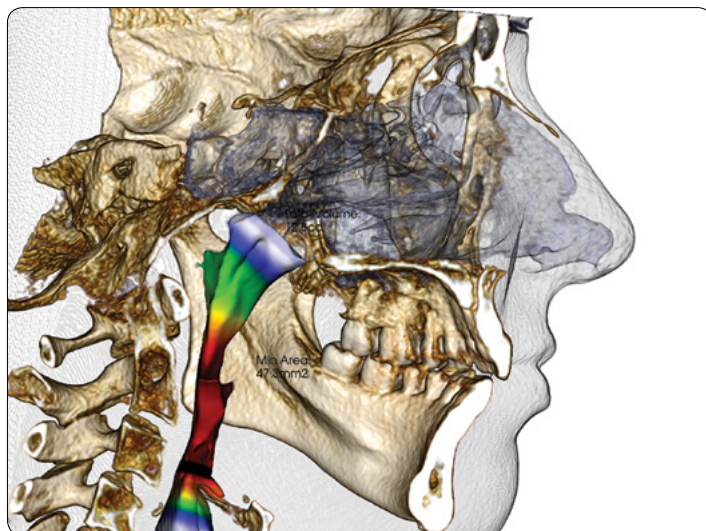
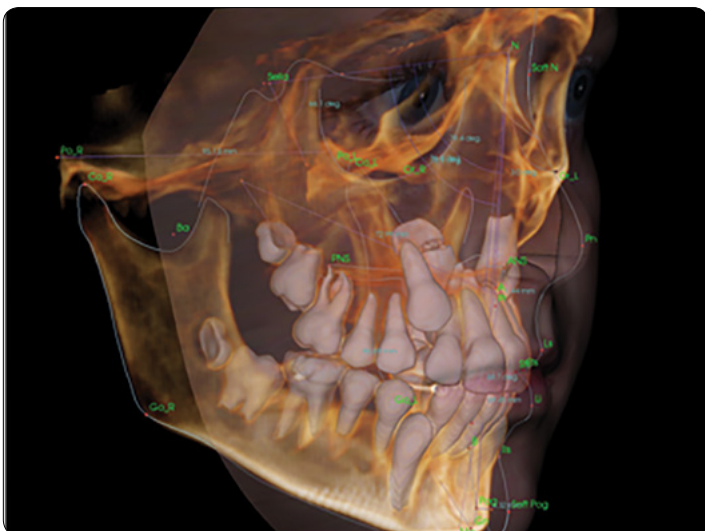
## Orthodontic Applications

Invivo6 serves as the platform for Anatomodel: an impression-less study model created from a CBCT scan which contains not just crowns, but roots, developing teeth, impactions as well as alveolar bone.

Plan volumetric TAD treatments confidently on Invivo6's implant module. Accurately visualize the 3D volume of your patient's airway to gain a better understanding of their sleep apnea. Clinicians have the ability to superimpose their patients' photographs onto the 3D volume

and create their own 3D cephalometric analysis that is compatible with their existing 2D analysis. Streamline the office by fully integrating photography, Anatomodel, and CBCT into a single file to be opened in Invivo6.

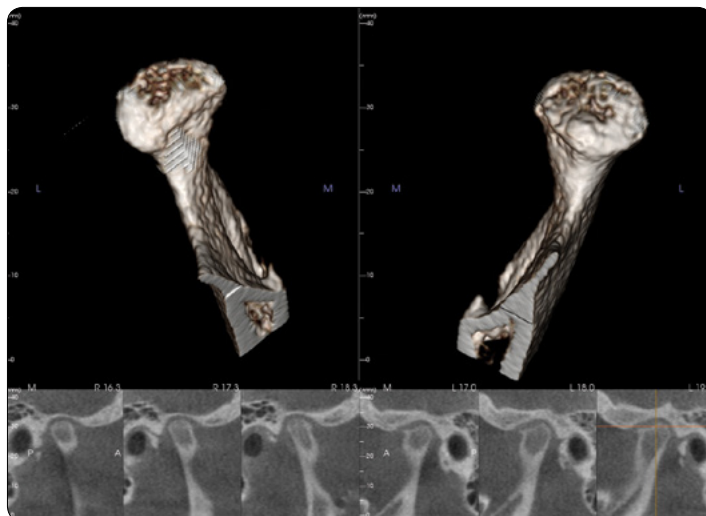
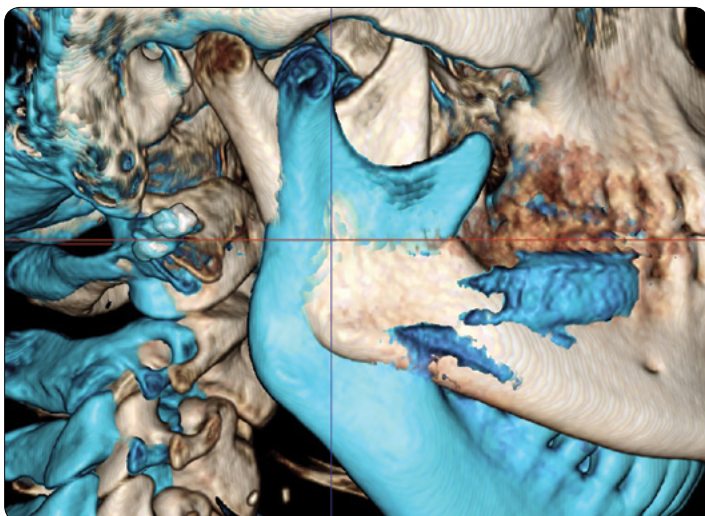
- Impressionless Study Model
- 3D Cephalometric Analysis
- Impaction Case Planning
- Asymmetry Analysis
- Airway Analysis



## TMJ Applications

Invivo6 offers powerful and simple-to-use tools for TMJ applications. Users can create 2D and 3D workups quickly by isolating the condyle and fossa with automatic segmentation, mapping the trajectory of the condyle motion with superimposition, and more. Left and right asymmetries are clearly shown and accurately measured.

- Quick and Easy Workup
- Functional Superimposition
- Automatic Segmentation





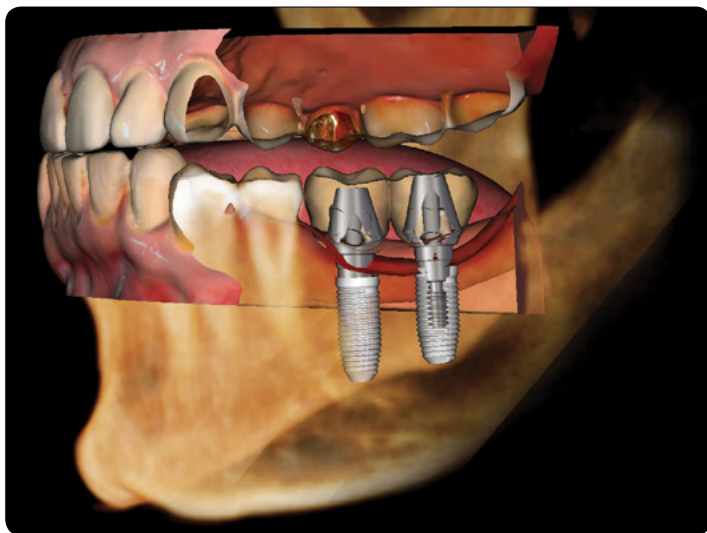
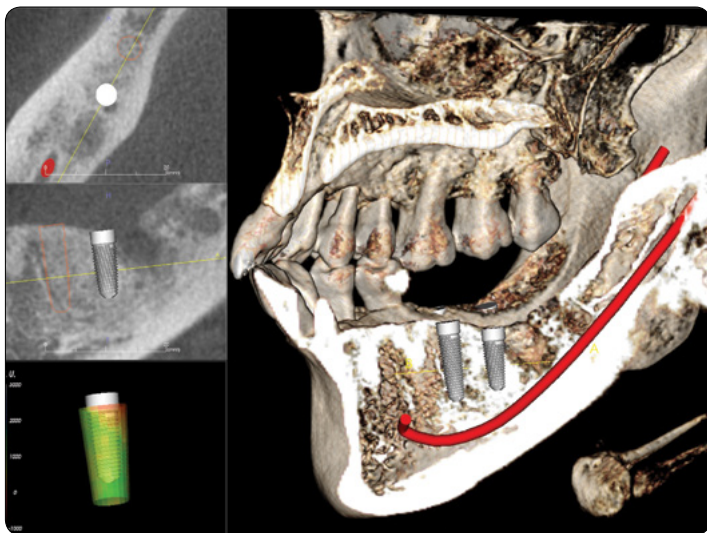
## Implant Planning

3D implant planning on Invivo6 is intuitive. Nerve editing, angle measurements, and sinus grafting tools are a few detail oriented tools for precise planning. Invivo6 allows the placement of implants directly onto the 3D DICOM data, with no conversion or modeling necessary.

Save time when inserting multiple implants with parallel implant groups, automatic check sleeve, and personalized implant library. Plan treatments in full 3D anatomy with precise restorative outcomes in mind. Utilizing the restoration tools provided in Invivo6, custom crowns can be fitted precisely on prepped teeth, abutments, and

pontics. Perfect for patient consultation, Invivo6 makes it possible to demonstrate treatment plans to patients chair-side. Take the virtual treatment plan and transform it into reality with Anatomage Guide.

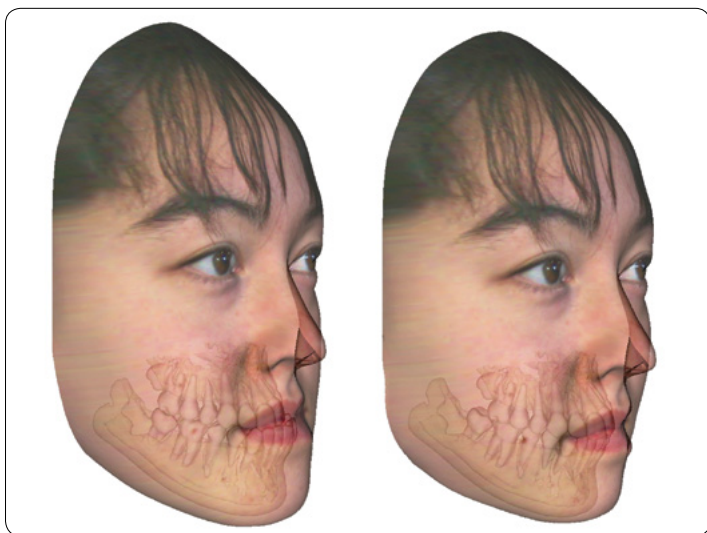
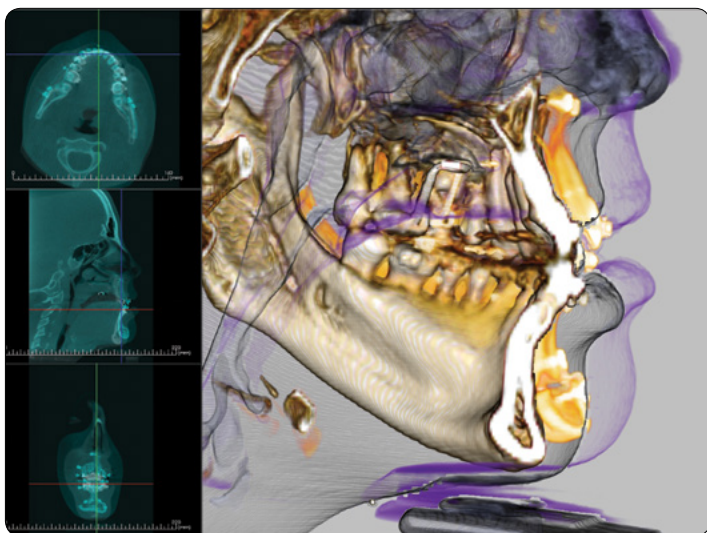
- Accurate for Restoratively Driven Implant Planning
- Comprehensive User Experience
- No Conversions, No Modeling
- Easy Surgical Guide System



## Surgical Simulations

Plan cases and create surgical simulations for patients on Invivo6. Utilize the powerful tools provided to generate asymmetric mirroring analysis, fine tune jaw articulation animation, and more. Show your patients their treatment goals in 3D with soft tissue simulations and review the results post-op with 3D superimposition analysis.

- Orthognathic or Orthodontic Applications
- 3D Soft Tissue Prediction
- Accurate Measurements



## Surgical Guide Service\*

Utilizing Invivo6, you can quickly plan treatments virtually for implant cases with beautiful 3D visualizations. Anatomage uses the devised treatment plan to create a custom surgical guide for your patient. The process is simple and the turnaround time is quick to offer flexibility to the clinician.



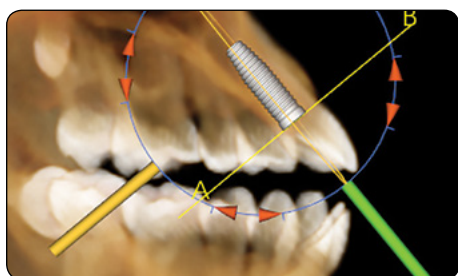
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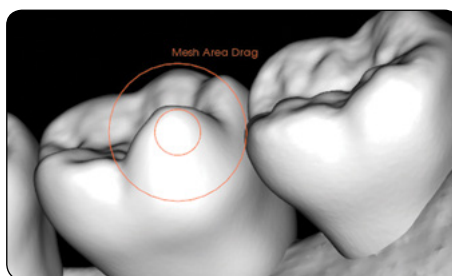
Compatible with CAD/CAM, you can implement restoratively driven implant planning and send the restoration plan to a lab for fabrication.

Choose from a selection of implants and restorations available in the library best suited for your patient.

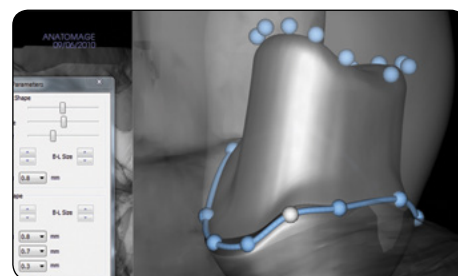
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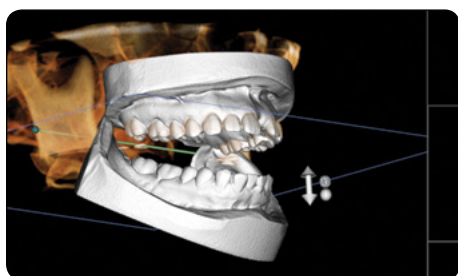
Implant Planning



Shape and Mold Restorations



Shape Precise Abutments



Jaw Articulation



Sinus Graph Tool



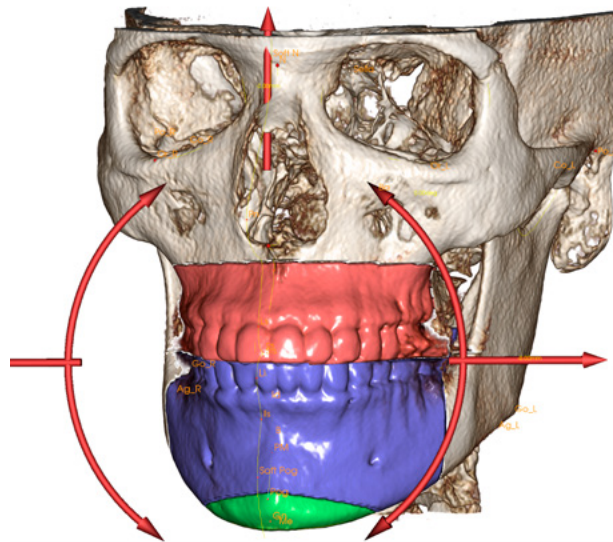
Cross Section

\* Optional Service



## 3D Analysis Module\*

The 3D Analysis Module is a patient consultation and comprehensive cephalometry research tool. It enables full 3D landmarks and tracing directly on the 3D volume. Instantly plan orthognathic cuts on the rendering for immediate analysis and measurements. Personalize analyses by establishing your own measurements and norms. The module is also compatible with various existing 2D analysis.



### Fully Compatible with Traditional 2D Analysis

Because the precedence for 2D analysis and the volume of existing data for 2D analysis are important, the 3D Analysis module also provides the full traditional 2D analysis as well. The software comes set up with the most famous analyses and lets you easily create your own or modify current ones.

### Fully Customizable 3D Landmarks & Measurements

The 3D Analysis module is complete with the standard landmarks. You are able to add any additional 3D landmarks, measurements between landmarks, or reference geometries on the 3D structure. Landmarks can be picked on any anatomical structure, such as the skeletal hard tissue, dentition, or soft tissue; you are able to create your own landmarks and measurements any way you choose.

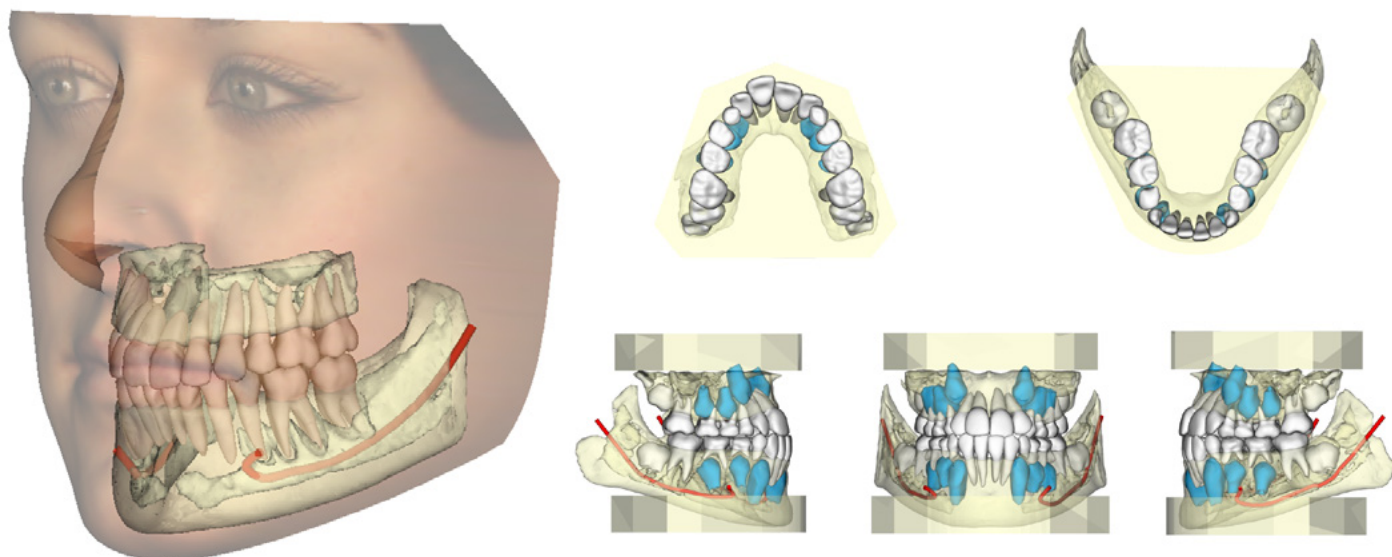
- Powerful research tool.
- Comprehensive 2D and 3D structure analysis.
- Sophisticated measurements.
- Complete anatomy visualization, both hard and soft tissue.

### Create Your Own Analysis

Easy is the keyword. As an experienced clinician, you already understand your patients' skeletal proportions, asymmetries, and assessments. However, the formalizing of such assessments into concrete data has been very difficult. With our 3D Analysis software, we have addressed this problem and made it very easy to establish your own measurements and build your own norm data statistics with a one-click operation.

## Anatomodel Service\*


The Anatomodel service offers a virtual study model, eliminating impressions and traditional stone models. Using the CBCT submitted, a full anatomical study model can be reconstructed. Detailed and accurate, Anatomodel opens up a world of possibilities for clinicians by cutting costs with state-of-the-art 3D imaging.



## Advanced Orthodontic Solutions

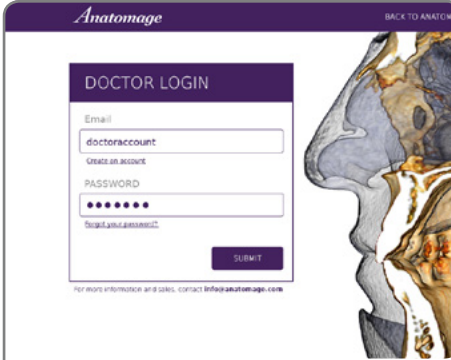
Anatomodel, our 3D modeling service, allows doctors to provide enhanced diagnosis for their patients. Visualize dynamic digital study models exclusively on Invivo software. Using a single CBCT scan and a simple digital photograph, our skilled Anatomodel technicians can create impression-less study models that represent the true patient anatomy.

## Simple Process



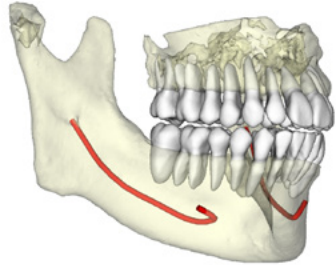
**Scan**

- Take a CBCT scan of the patient
- Optional: include a 2D or 3D frontal photo



**Upload**

- Save the DICOM & Photo
- Upload through the AutoUploader or your Anatomodel account



**Model**

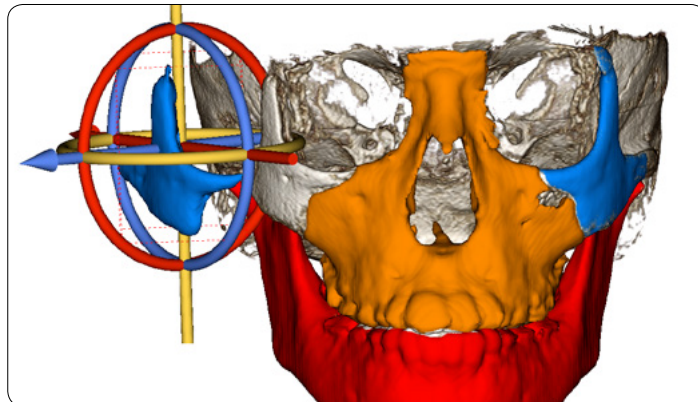
- Log into your Anatomodel account
- Receive your Anatomodel file and images

\* Optional Module and Service.

## Medical Design Studio\*


The Medical Design Studio module is an engineering software for segmentation, modeling, and surgical simulation. Additionally, it allows STL files to be exported for model manufacturing using 3D printing, allowing you to turn the virtual images to physical models.

The software has sophisticated editing features for both volume and 3D models, making it a strong asset for any type of medical device design.



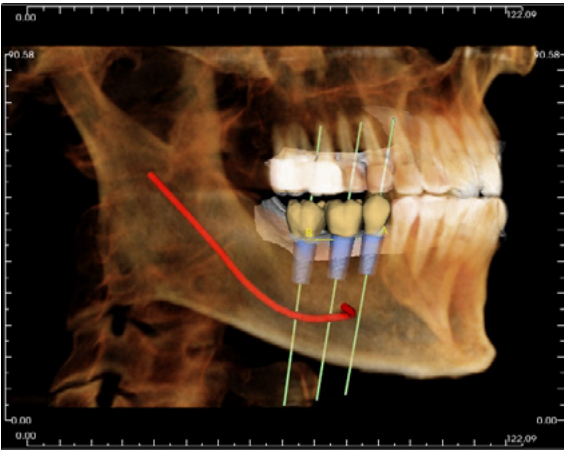
## Report Module\*

Customize personal templates to use when compiling patient reports for your records. Information embedded in the patient's DICOM file can be automatically inserted into the report along with additional text and images from Invivo6.



**Anatomage Dental Practice**  
 303 Almaden Blvd. #700  
 San Jose, CA 95110  
[www.anatomage.com](http://www.anatomage.com)

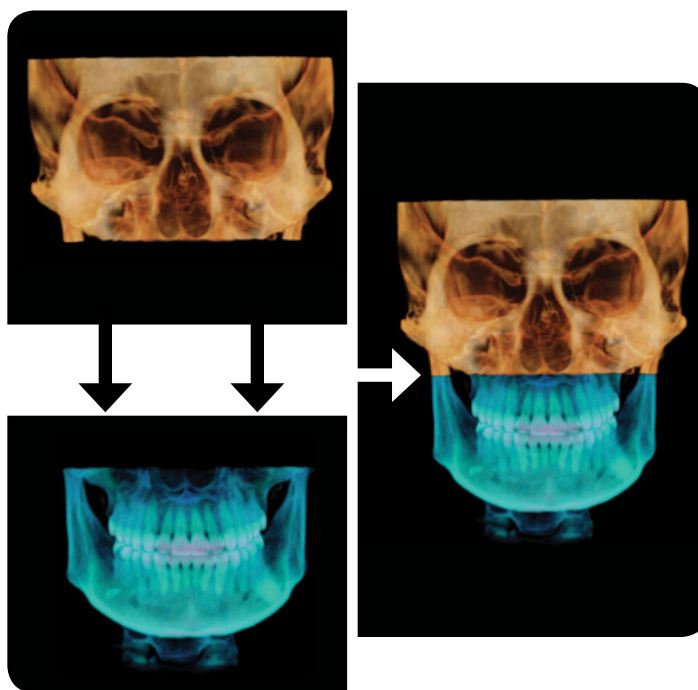
Anonymous Patient  
 Female, 1/1/1970  
 303 Almaden Blvd. Suite 700 San Jose, CA 95110  
 Patient ID # 001657  
 Case Date: 9/27/17



Anonymous Patient  
 1/1/1970  
 Tooth #29, #30, #31  
 Implant Type: Generic; Internal Straight; ID# 29 - Universal  
 Length: 10.0mm  
 Diameter: 3.5mm

## Stitch Module\*

The Stitch Module for Invivo6 allows you to expand the field of view of your CBCT machine by stitching multiple scans together. When you want to capture a clear visual of your patient's airway, or when your scan misses a critical area by a margin, the Stitch Module can save the day.





## Medical Applications\*

Invivo6 can open Medical CT, MRI, and Ultrasound data with the same high quality volume rendering seen in the dental applications. With a rich set of tools, Invivo6 can create accurate 3D visualizations, segmentation, simulations, and reconstructions of the specific anatomy.

By seamlessly merging 3D geometric models with volumetric images, Invivo6 is a fundamental tool for medical device design and research.



## Forensic Applications\*

Anatomage's technology has played a vital role in revealing the mystery in several ancient cases, like the famous mummy child scanned at Stanford.

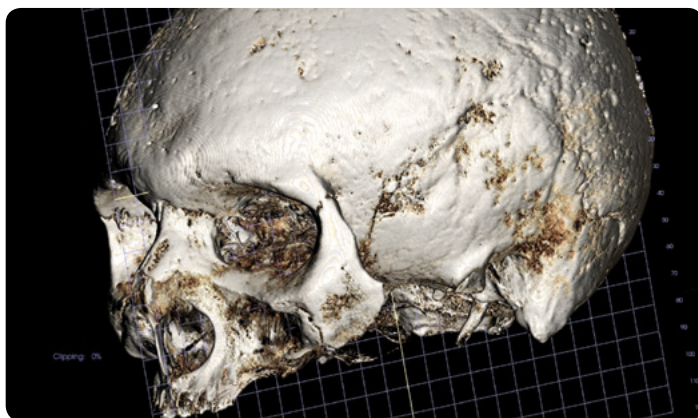
With the aid of virtual modeling and reconstruction, the researchers were able to determine that the mysterious objects in the scan were fractured pieces of the mummy's upper molar. For forensic specialists and anthropologists, Invivo6's ability to reconstruct x-rays, 2D or 3D images superimposition, and 3D manipulation are a few of the important features used when solving forensic cases.



## Archeology Applications\*

With the rise of CT scans available for archaeology artifacts, Invivo6 offers a fresh perspective for academic researchers and museums to analyze their artifacts. Invivo5 can open the majority of medical scans and industrial scans.

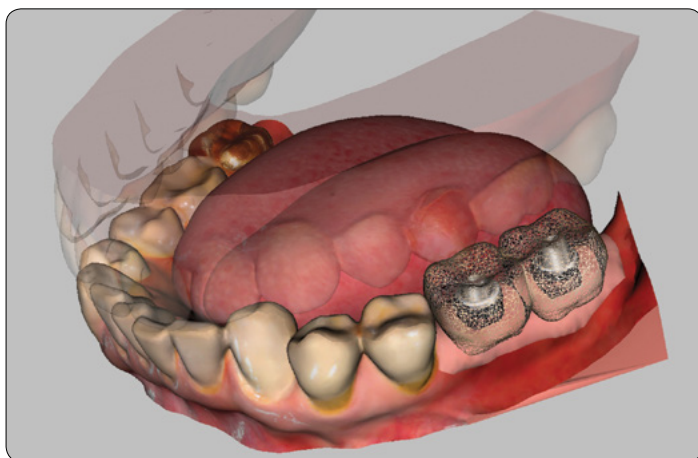
The software includes accurate visualizations and detailed descriptions of measurements, allowing the user to perform virtual decomposition, sculpting, and bending assembly without damaging the valuable artifacts.\*\*



## Medical Visualization Applications\*

Invivo6 accepts a wide variety of medical data including medical images, laser scan data, 3D camera data, mechanical design parts data, or all of them together. Then, the multi-modal data can be edited and manipulated into a single frame of reference.

From there, the user can easily visualize and simulate anatomical function, mechanical device assembly and functions for specific patient cases.





## About Anatomage

Anatomage specializes in 3D medical technology. Founded in 2004, Anatomage has been consistently growing and expanding throughout the years. The company office is located in San Jose, California, in the midst of many high tech companies. Inheriting the spirit of Silicon Valley, Anatomage is building the company with dedication, speed, innovation, and leadership.

Anatomage started as a 3D imaging software company and has grown to a full scale solution company. The product offering expanded to include: software, digital service, image guided treatment devices, and imaging equipment. Anatomage offers unique solutions for each clinical application:

For radiology, it offers high quality rendering and workup tools.

For implantology, it offers a simple procedure for image guided surgery solutions.

For orthodontics, it offers the only impression-less virtual model and full 3D analysis.

For surgical applications, it offers true 3D hard tissue and soft tissue reconstruction simulations.

For medical device design, it offers unique device and image fusion design solutions.

Anatomage is featured in many journal publications and research studies. We are dedicated to help individuals and institutions further their research and publish their work using our technology. Whether you are a clinician, researcher, laboratory, medical company, or imaging center, Anatomage has advanced and complete solutions for your needs. Please contact Anatomage about your interest. You may be surprised to find out what we can do for you.

Jack Choi, Ph.D.  
CEO  
Anatomage Inc.

*Anatomage*