

Anatontage TABLE



Real Human Anatomy
Digitally Restored.

Why the Table?

The Anatomage Table is the most technologically advanced virtual dissection table for anatomy education. The Table's life-sized display, clinical content, and renowned imaging software separates theTable from any other anatomy education tool on the market.

Advanced Educational Tool

The accurate real human anatomy and quantity of clinical examples are unique aspects of the Anatomage Table. Students are motivated and can easily digest complicated 3D shapes of comprehensive human anatomy. Combined with powerful hardware and software, the product offers unprecedented technology for medical education.

Technical Showcase

The Table is an advanced technological centerpiece that sets you apart from other institutes and draws attention from students, faculty, and visitors.

Clinical Care Review

The Table is not only used for anatomical education. It has been cleared by the FDA for applications in medical diagnosis as well as clinical use. The Table can be utilized as a powerful radiology workstation and as a tool for surgical case review, patient consultation, and medical research.

Cost Reduction

Unlike cadavers, the Anatomage Table does not require ventilation infrastructure, embalming equipment, personnel, or storage. The contents are reusable, so there are no recurring acquisition costs. The Table will save significant long-term costs.

Clean & Safe

The Anatomage Table offers a high-quality lab experience without any chemicals. There are no possibilities of leaks, no environmental concerns, and no additional ventilation requirements. The Table provides headache-free lab sessions.





How the Table Compares

	Models	Cadavers	TABLE
Chemical Free	✓		✓
No Special Facility	✓		✓
No Restrictions	✓		✓
Unlimited Cases			✓
Minimal Recurring Costs	✓		✓
Real Human Anatomy		✓	✓
Unlimited Cutting			✓
Life Size		✓	✓
Updates & Support			✓

Applications: Classroom

Lecture

The Table can be used during lectures since it can connect to projectors. Instructors can create and demonstrate procedural material, making lectures more dynamic and engaging. Screen captures and video clips can be easily saved and shared with students as review material. Running a full lecture with the Table turns a traditional, difficult class into an exciting, highly interactive one.



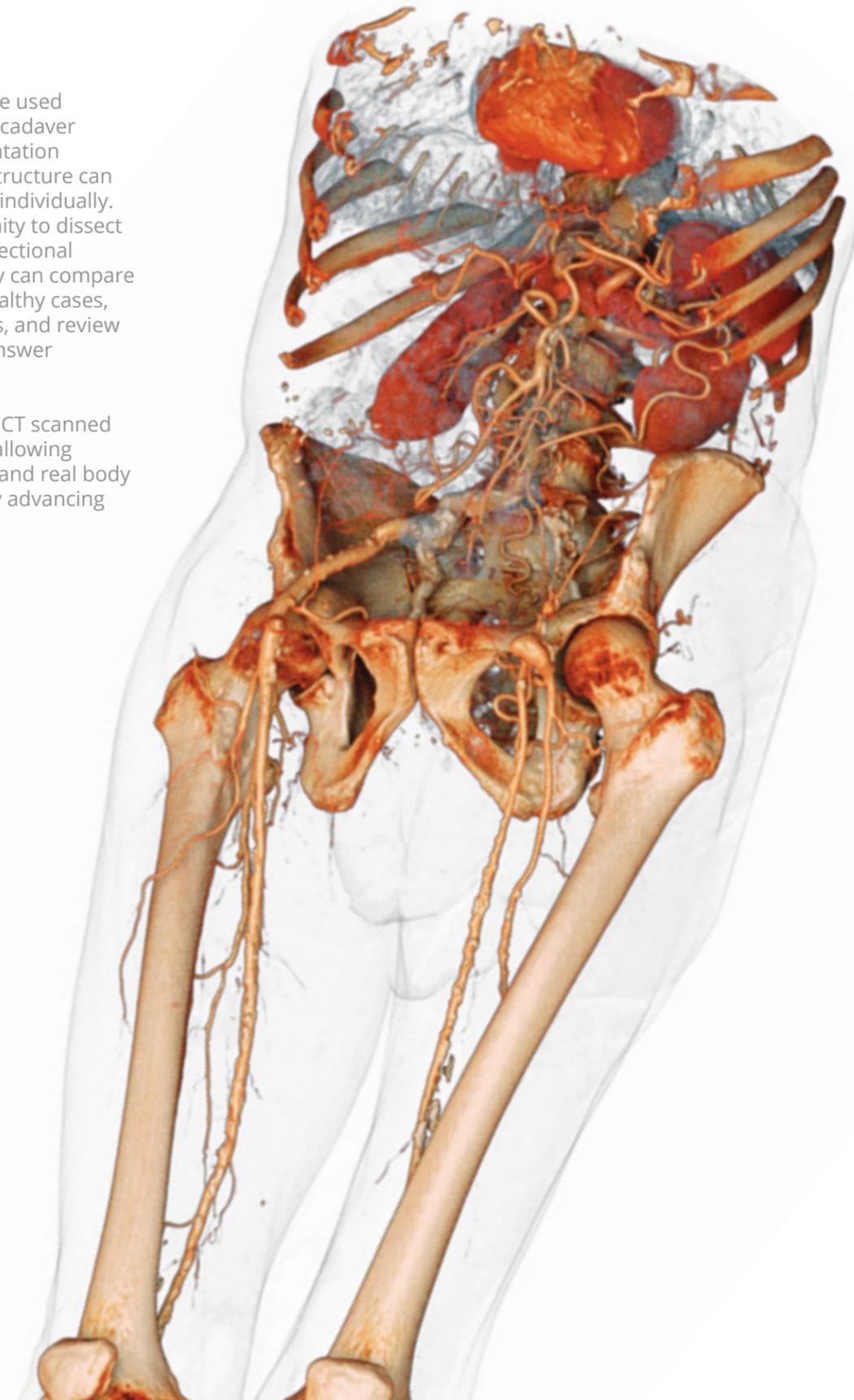
Lab Review

The Anatomage Table can be used in conjunction with existing cadaver dissections. With its segmentation features, each anatomical structure can be separated and reviewed individually. Students have the opportunity to dissect reconstructions and cross-sectional planes of clinical cases. They can compare abnormal pathologies to healthy cases, view structural relationships, and review in collaborative groups to answer questions and take quizzes.

Embalmed cadavers can be CT scanned and reviewed on the Table allowing students to review a virtual and real body simultaneously, significantly advancing existing curricula.

Full Lab Replacement

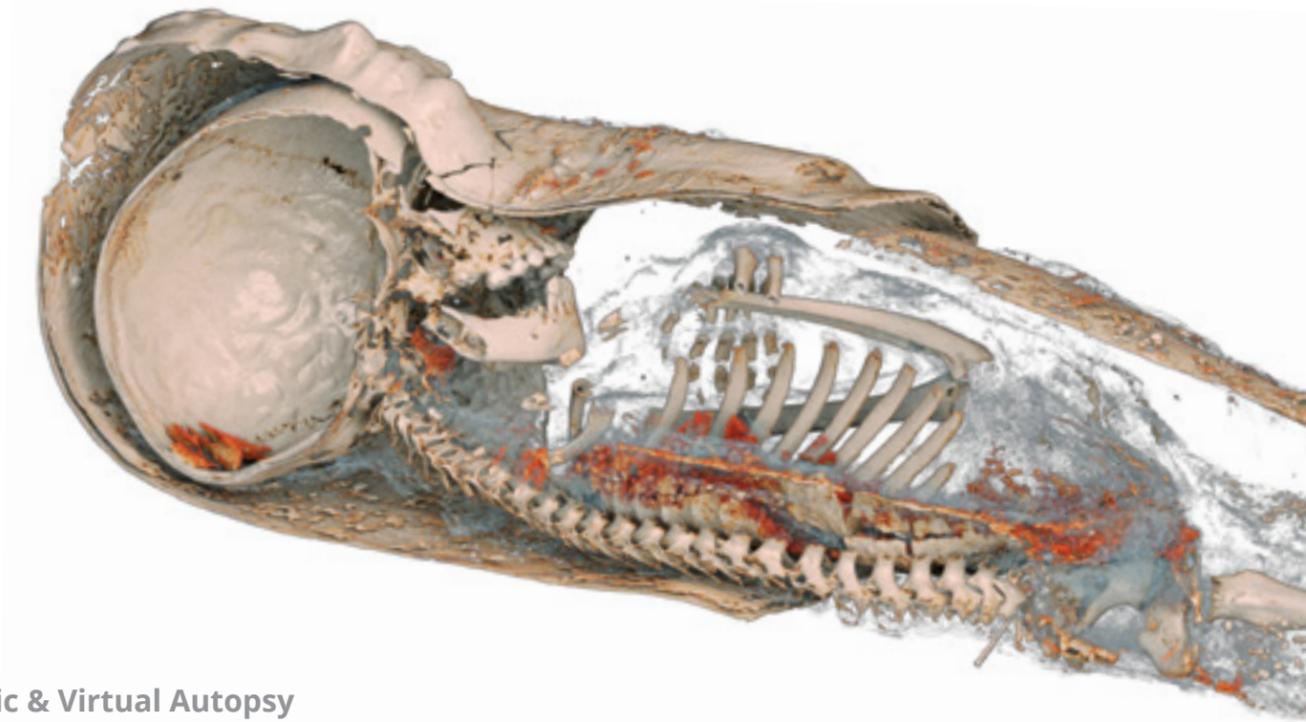
The Anatomage Table is sufficient to cover the full anatomy class. High accuracy and rich contents offer an excellent replacement to traditional cadaver-based dissection. Since the data preserves the real-life patient color and shape, the Table is more effective than embalmed cadavers.



Applications: Clinic

Patient Consultation

Visualization is easier for patients when viewing their anatomy in 3D color as opposed to 2D black and white slices. With this technologically impressive visual consultation, the patient's visit will be much more effective.

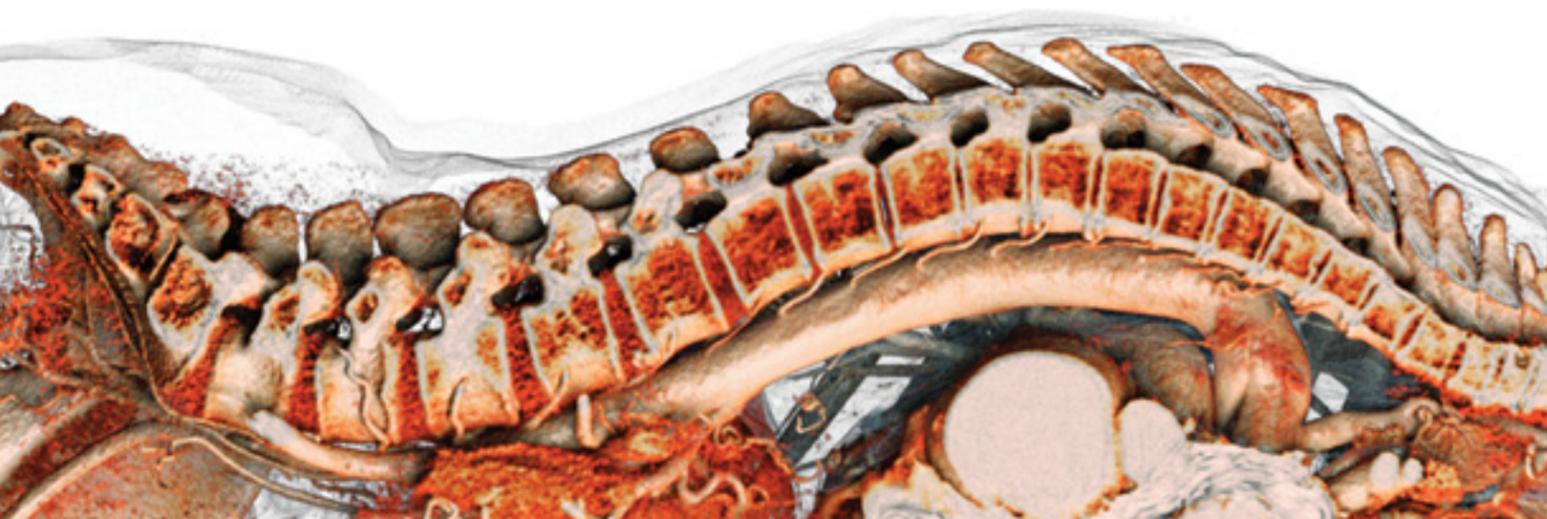


Forensic & Virtual Autopsy

CT scanning is increasingly popular in the field of forensics and archaeology. The Anatomage Table had a crucial role in the historic investigation of Pharaoh Tutankhamun's cause of death, documented by Fuji TV and PBS in August 2012, and by STV and BBC in October 2014. The Table's forensic autopsy applications were also positively reviewed in a 2013 Scientific American article.

Clinical Training

A strong pathological and procedural training tool, the Anatomage Table's features are derived from an FDA cleared surgical planning software that merges actual 3D devices onto a patient image. This allows for the simulation of the device interacting with the medical image. This feature also allows for a new kind of medical device training without relying on animals or physical specimens.



Focal Point

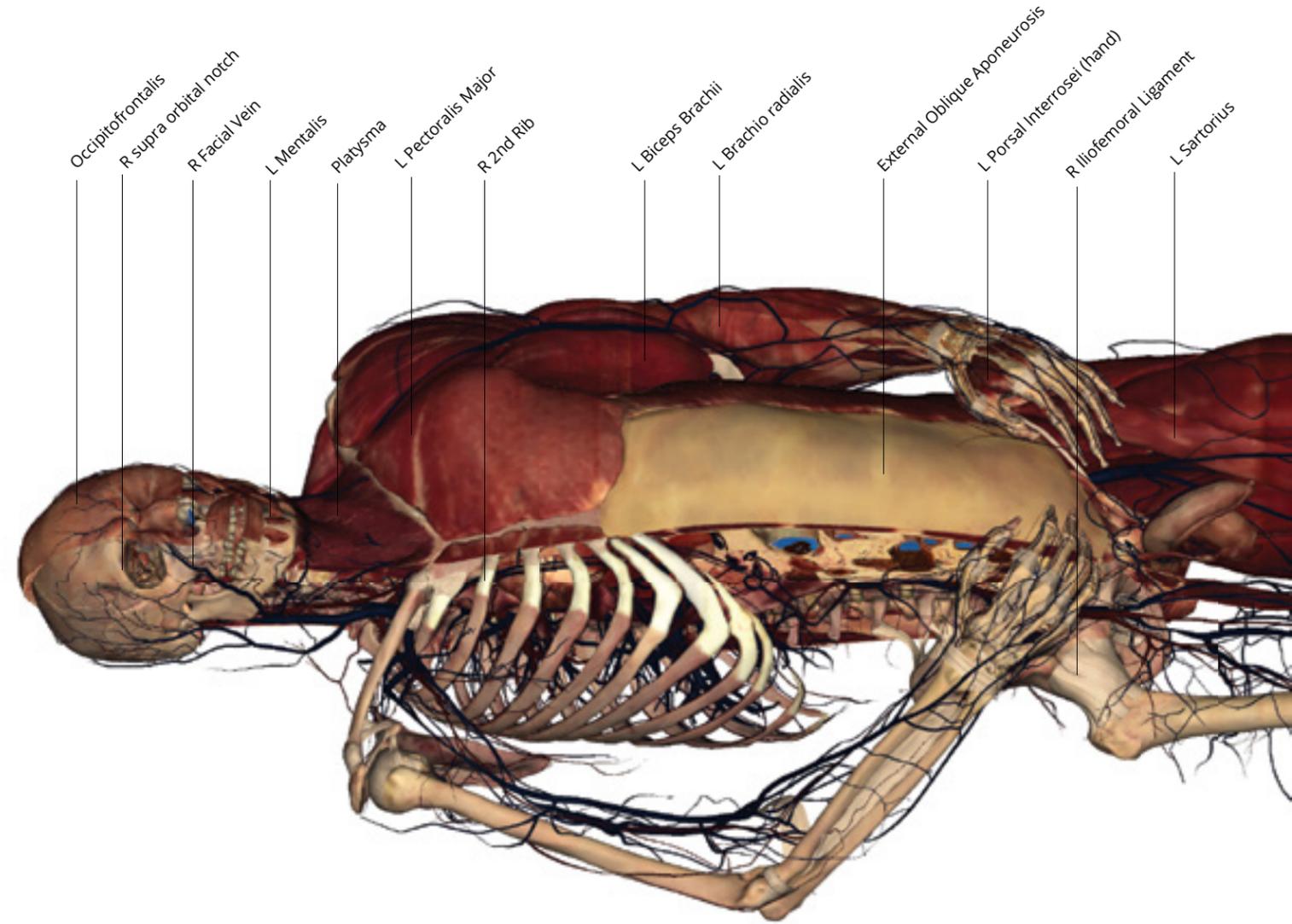
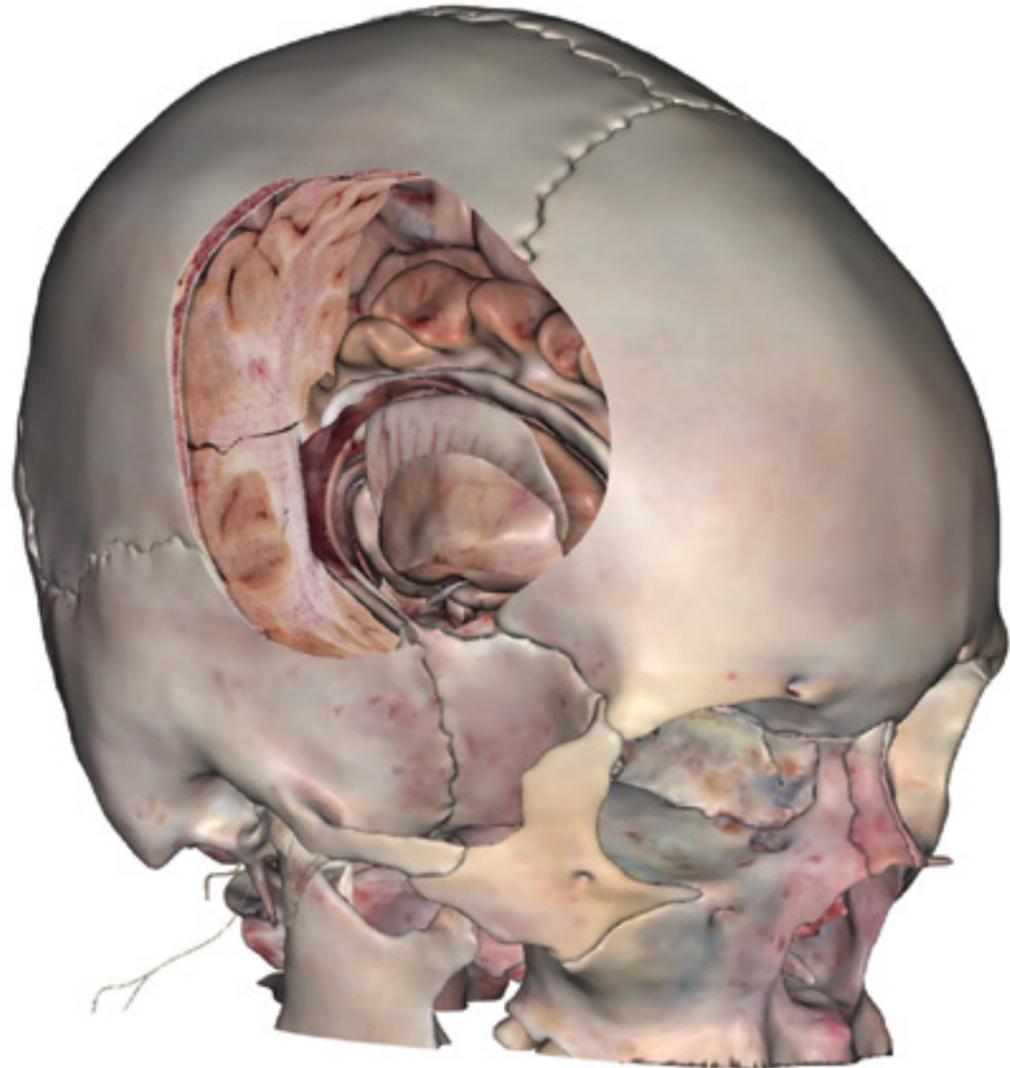
In a public setting the technologically advanced Anatomage Table never fails to draw attention. The Table's intuitive interface allows anyone to approach and explore human anatomy.



Features & Contents

Interactive Dissection

The Table offers unique interactive dissection and reference tools. With the touchscreen interface, users can rotate the cadaver, make cuts in any direction, and see the name of each displayed structure. Users also have the option of making multiple cuts or undoing any cut instantaneously. Users can dynamically view internal anatomy and further explore the dissected cadaver.



With Full Annotations

There are thousands of annotated structures for both male and female cadavers. Users can explore the body by selecting different anatomical structures or locate specific structures from a list of anatomical names. The Table's Craniotomy Tool allows for users to specifically dissect through the skull and view the internal tissues of the brain. Additionally, the Table vividly animates blood flow for any artery and vein in the cadavers.

With the ability to practice interactive dissection and see detailed annotations anytime, the Table becomes a very effective anatomy education tool.

Features & Contents



Virtual Note-Taking

The Table includes note-taking tools for interactive identification and exploration of virtual anatomy. Users can choose to highlight specific anatomical structures as well as create their own text and arrow marker notes.

Quiz Mode

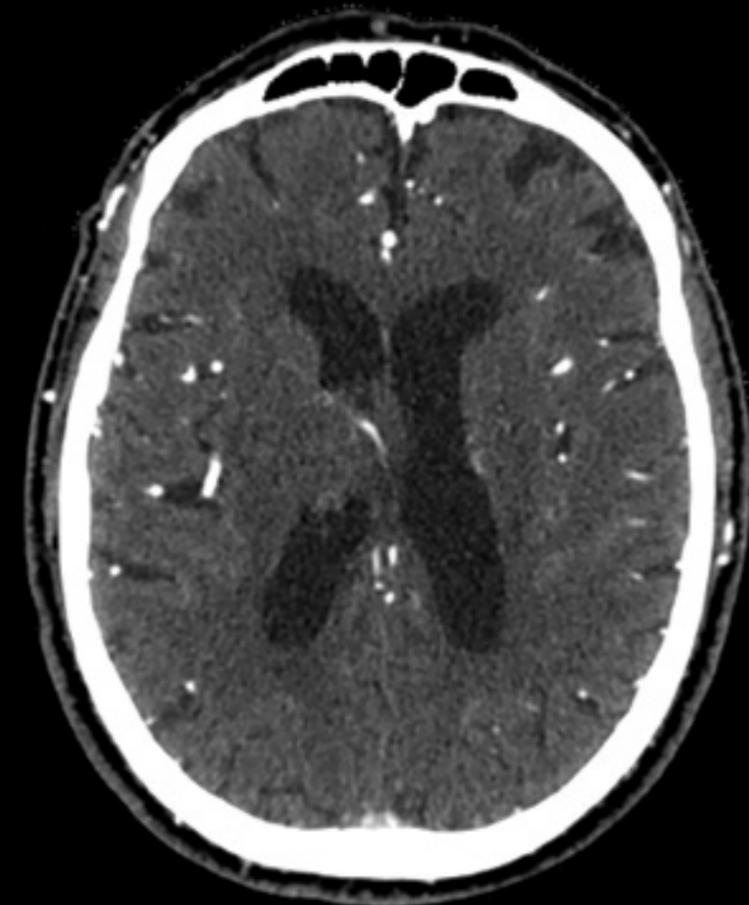
Material for quizzes and practicals can be created on the Table. Instructors can place numbered pins and other models on the cadavers to designate questions for students. The Table's Quiz Mode allows teachers to lock specific tools, so students have limited access during the quiz. Quiz Mode can be password protected to ensure students stay on track and are unable to alter the tools.

DICOM Compatible

The Table's software can load any 3D DICOM medical imaging data such as computed tomography (CT) and magnetic resonance imaging (MRI) scans. The Table is able to integrate with PACS for clinicians to load medical images from hospital archives for immediate review as both 2D radiological slices and 3D reconstructions.

Radiological Workstation

The Table functions as a complete radiology workstation and clinical education tool. Whether using your own medical image scan or one in the digital library, the Table gives full 3D anatomy which is intuitively controlled. The control allows examination of soft or hard tissue. Users can also review images in traditional radiology format. The workstation is useful for studying various pathological examples and reviewing patient scans for both clinical and educational purposes.

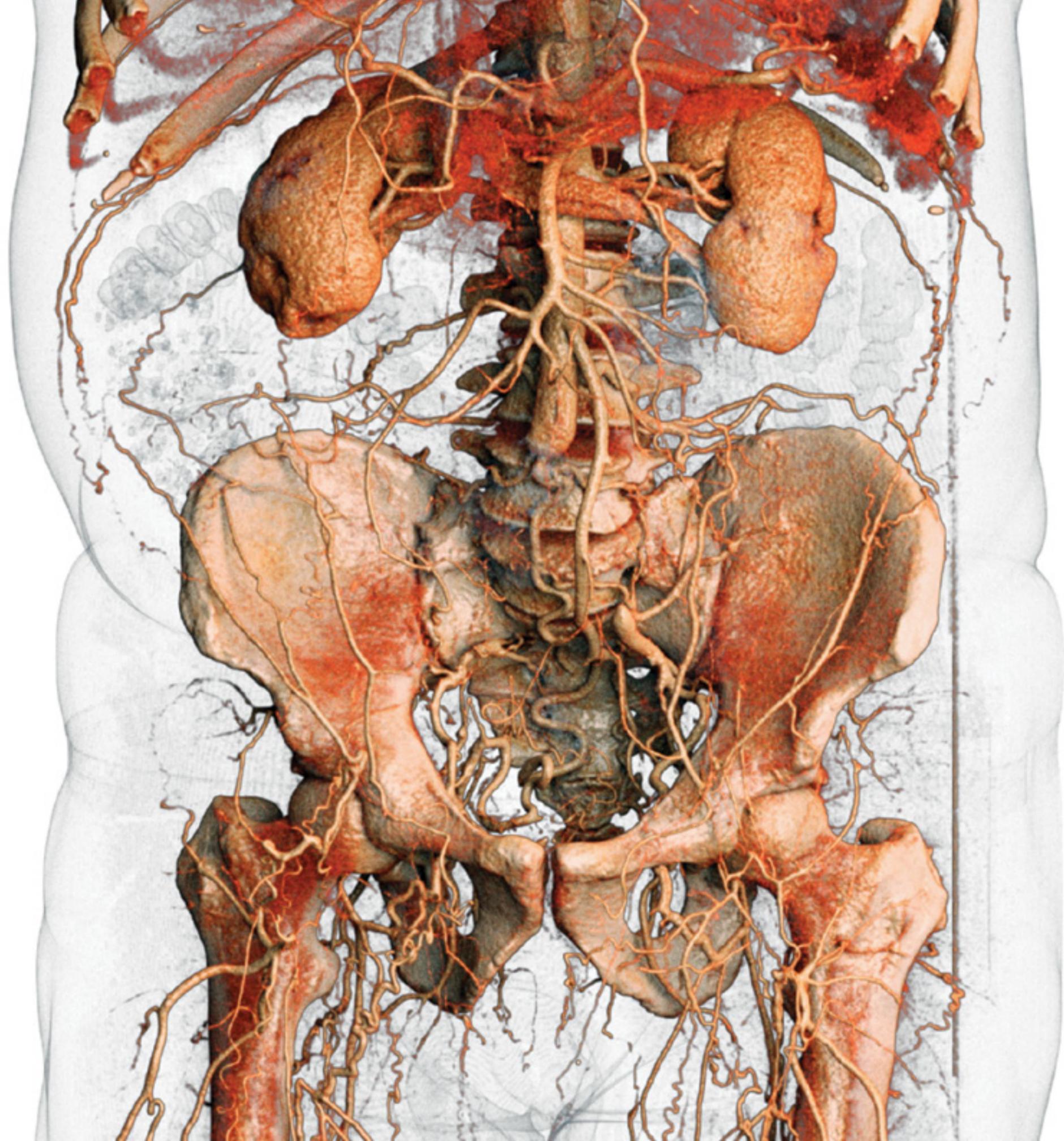


Ultra-High Quality Rendering

Ultra-high quality (UHQ) rendering on the Table is the latest and most photorealistic view of anatomy available anywhere on the market. The new 3D visualization filter brings medical scans to life by vividly representing body systems and structures.

Soft and hard tissues in the body are shown in extraordinary detail with realistic coloring. Even structures that are traditionally more difficult to see, such as vasculature and muscle fibers, can be viewed clearly. Visualizing anatomy on the Table in UHQ allows for users to view complex clinical cases clearly and realistically.

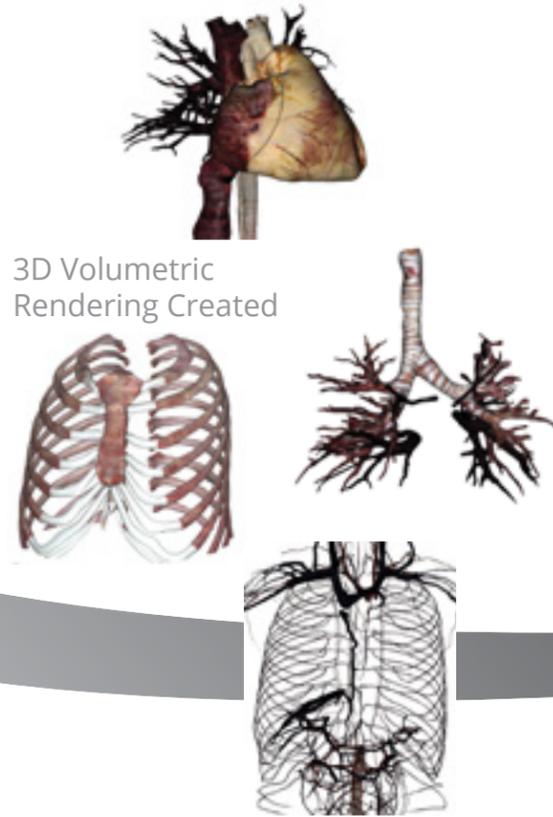
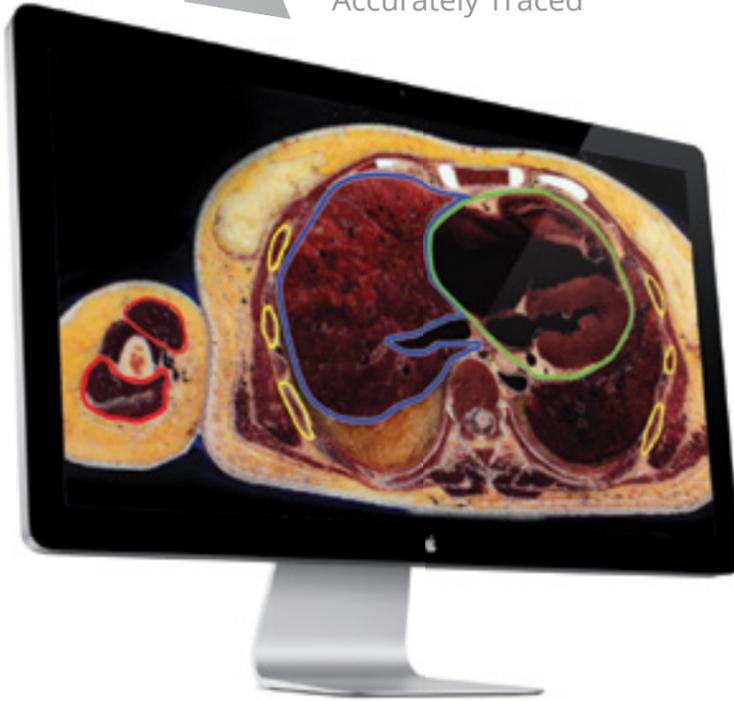
The innovative showcase allows for a complete and striking journey into the human body. Students are not only able to virtually dissect and study photorealistic human anatomy, but also learn anatomy with 3D spacial context. By seeing anatomy in UHQ, students will have a limitless view into the systems of the body and will gain a comprehensive clinical-level understanding of cases.



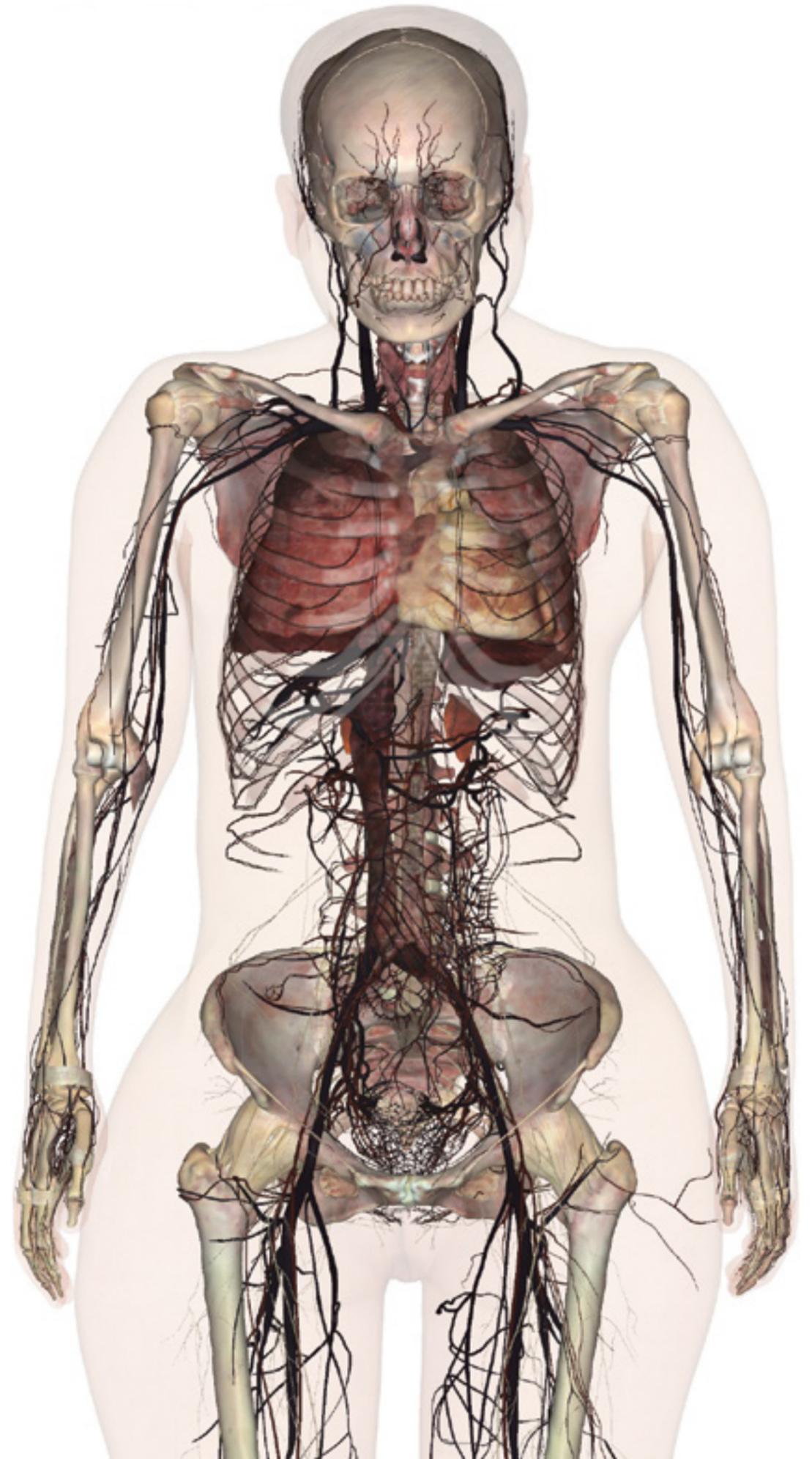


Real Cadaver Photos

2D Cadaver Photos
Accurately Traced



3D Volumetric
Rendering Created



How do we create real anatomy?

The highly accurate anatomy available on the Anatomage Table is created by using real human cadavers. The cadavers are frozen without embalming chemicals, preserving the true color and visualization of the anatomy. Since the anatomy comes from a real cadaver, everything seen on the Anatomage Table is life-sized. The anatomy in the virtual cadavers are also fully annotated.

Real cadaver bodies are cut into 0.2mm slices. Anatomical structures, including blood vessels and nerves are then traced on each 2D slice. The slices are then stacked to recreate segmented 3D anatomy. Because over 2,500 anatomical structures are segmented, each structure can be viewed or virtually dissected individually or in context with each other.



Gross Anatomy

The Table comes with life-sized male and female gross anatomy. The Table includes multiple full-body cadavers to ensure that students are exposed to anatomical variations. The full external and internal gross anatomy is volumetrically displayed from head to toe and includes thousands of annotated structures. The images are created by digitally tracing real non-chemically treated cadavers. The color and shape of the cadavers are preserved to accurately depict real anatomy.

Gross Anatomy

The virtual body can be cut layer-by-layer, revealing the details of the internal structures. Individual anatomy can easily be isolated by system and by individual structure. Users can also make certain structures transparent to clearly view the arrangement of surrounding anatomy. Students can clearly visualize the detailed structures of the cardiovascular, nervous, and muscular systems. A blood flow animation tool gives students an interactive view of the body's vasculature.

The cadavers can be cut anywhere and in any direction using the curved cutting tool, allowing for students to simulate surgical procedures. Cuts can also be easily undone and reset for students to practice full-body dissection.

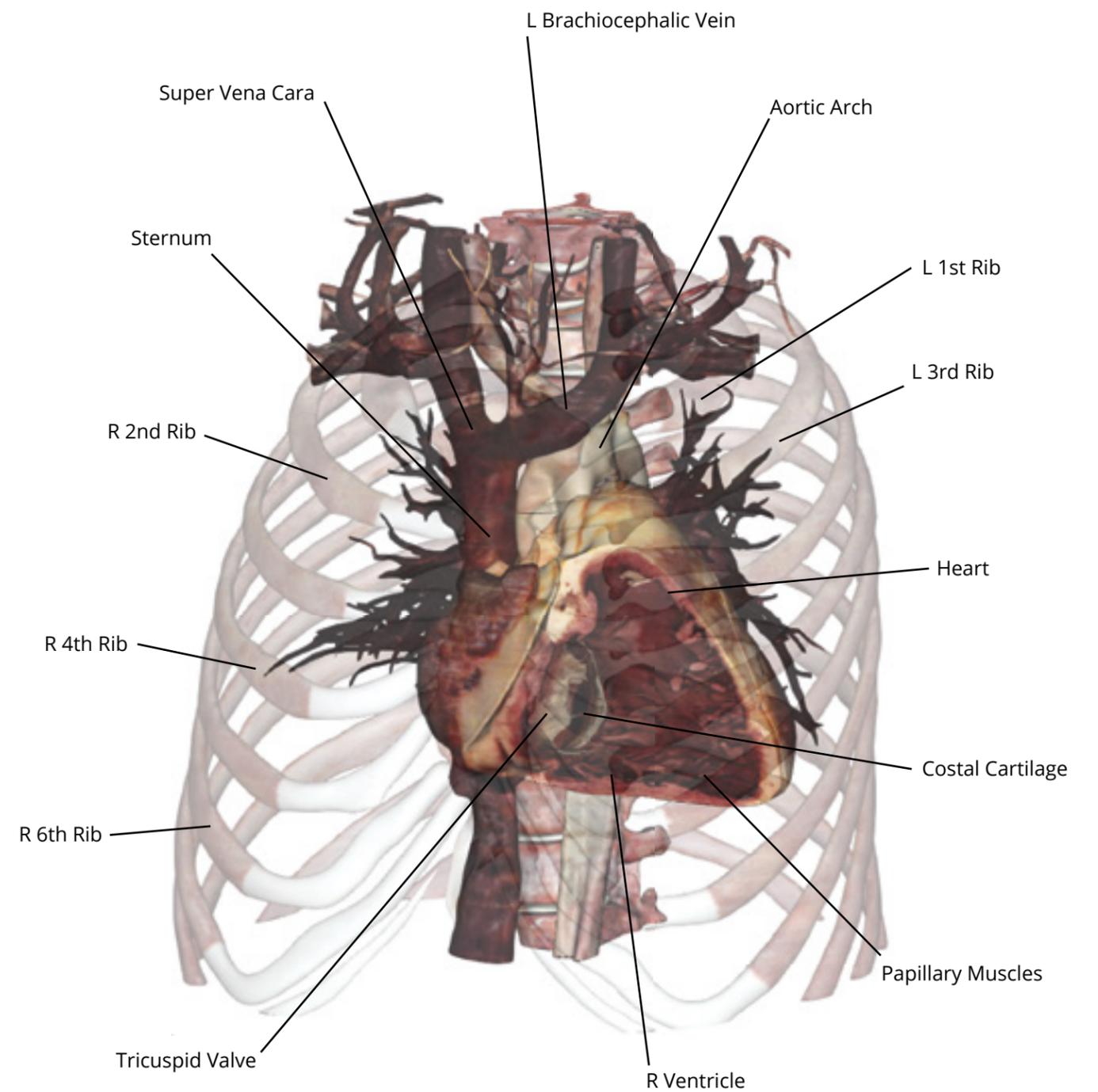
Instructors can easily create and save preset views to efficiently integrate gross anatomy into lectures or lab practicals. Anatomy quizzes, lab practicals, and other testing material can be created directly with the Table's content. The Table's Quiz Mode allows instructors to quickly and meticulously create lab examination environments. The full-body cadavers on the Table allow for students to visualize gross anatomy in 3D while dissecting interactive content.



Regional Anatomy

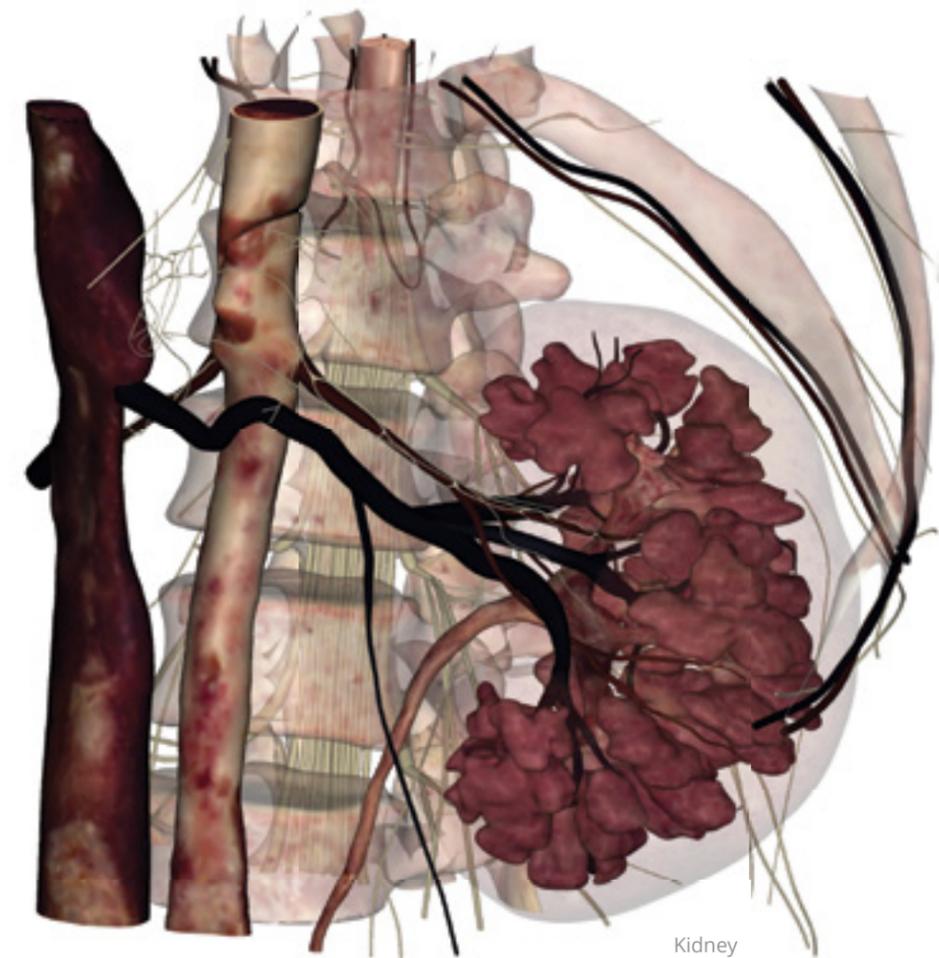
The Table includes high-resolution 3D regional anatomy up to 0.2mm. The regional scans allow for students to visualize detailed structures such as small nerves or blood vessels that are difficult to see by any other means.

Users are provided with an in-depth view of major structures in the body such as the heart, lungs, abdomen, and pelvis that might be difficult to see on a full body cadaver. For example, a regional view of the heart might allow for a student to view the ventricles, atria, and vasculature of the heart more clearly and in more detail.

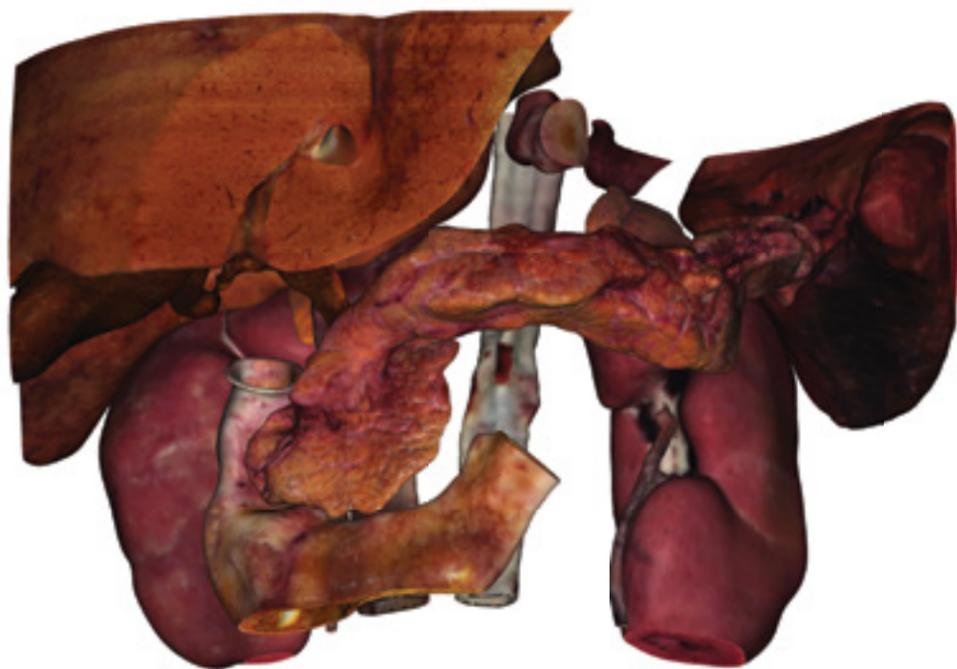




Brain



Kidney

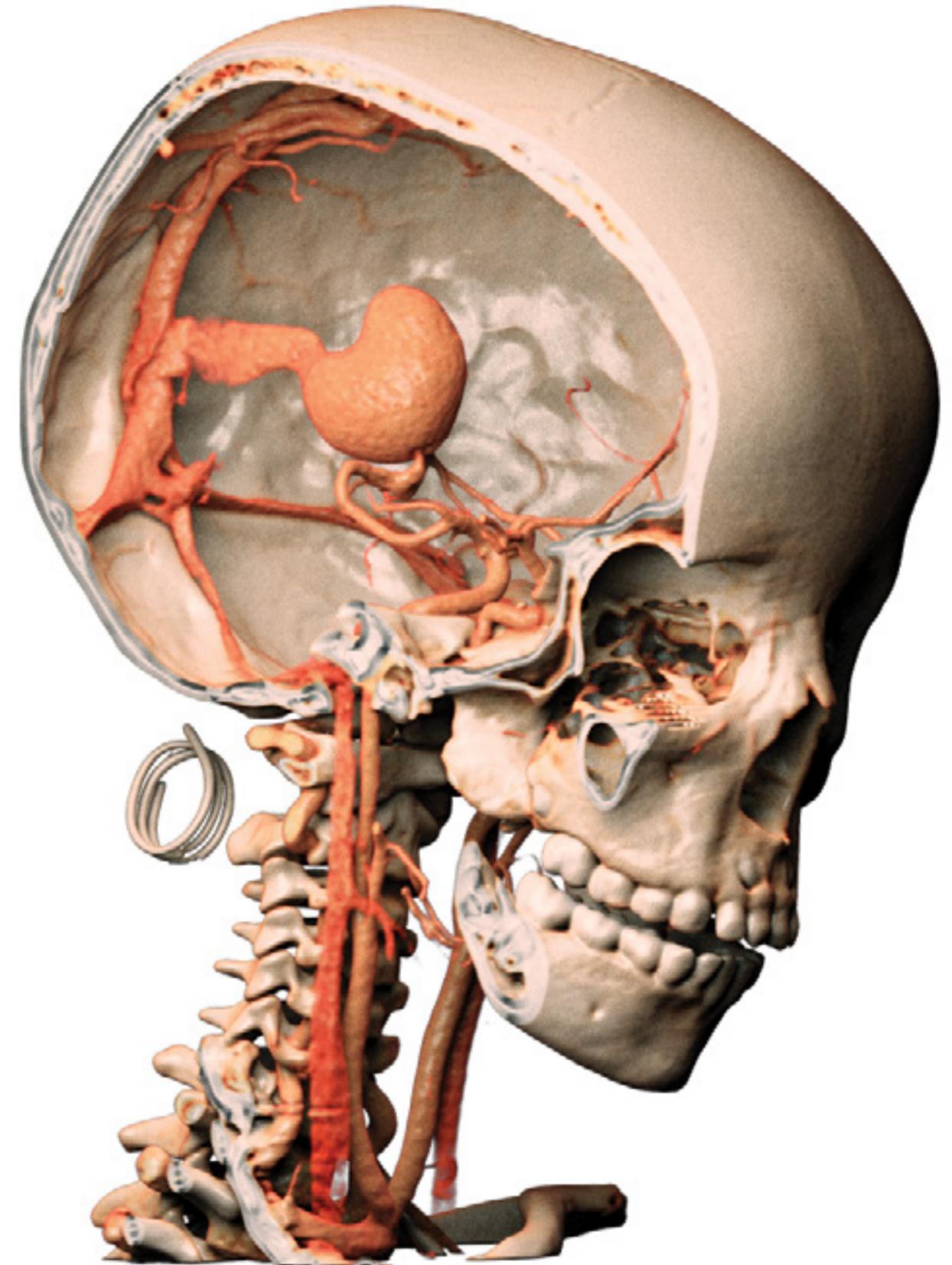


Pancreas

Regional Anatomy

The Table's features allow for users to easily toggle systems on and off to view specific anatomical structures in a three-dimensional context. The structures can be rotated or zoomed in on for detailed 3D visualization of the body's regional anatomy.

Regional content can be readily integrated into classroom material by creating and saving preset material. The regional scans cover the entire body from the head and neck to the pelvis, joints, legs, and feet.



Digital Library

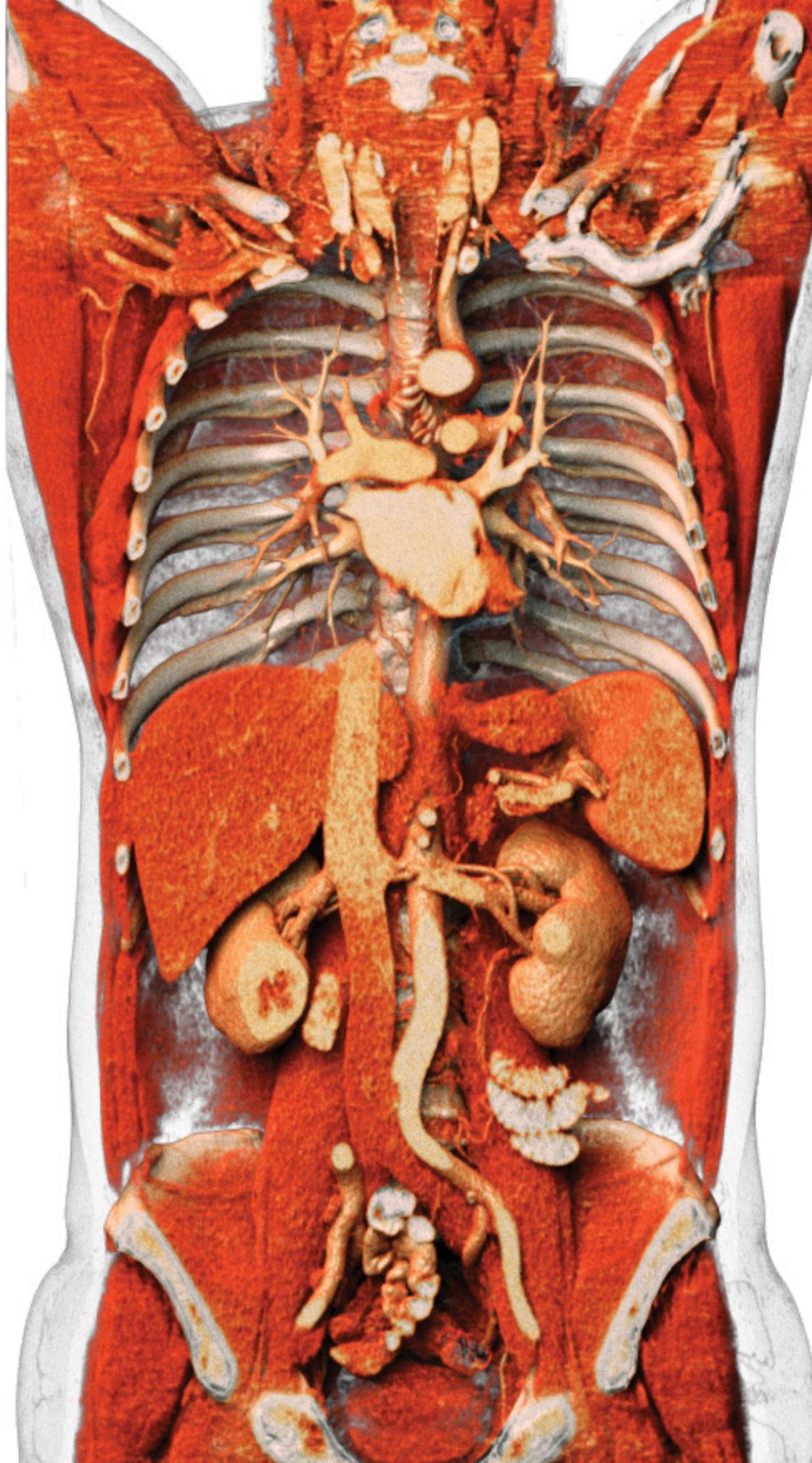
The Digital Anatomy Library offers over 1,300 clinical cases with a variety of visualization options and includes data from vertebrate anatomy and embryology. The Table includes scans of rare cases such as an abdominal ectopic pregnancy, a brain aneurysm, and conjoined twins. Students have the opportunity to view conditions that range from various bone fractures, medical implants, and gunshot wounds.

Digital Library

Users can access the original scan data, the resulting 3D image, and medical case notes. 4D scans have also been added to the latest Table offerings. Beating hearts and respiration can be visualized with full interactivity. The library allows students to make the connection between 2D cross-sectional scan data, 3D anatomy, and 4D visualization. The variety of cases ensures that students gain exposure to abnormal pathologies.



Head MRI



CT scan of male torso



Conjoined twins



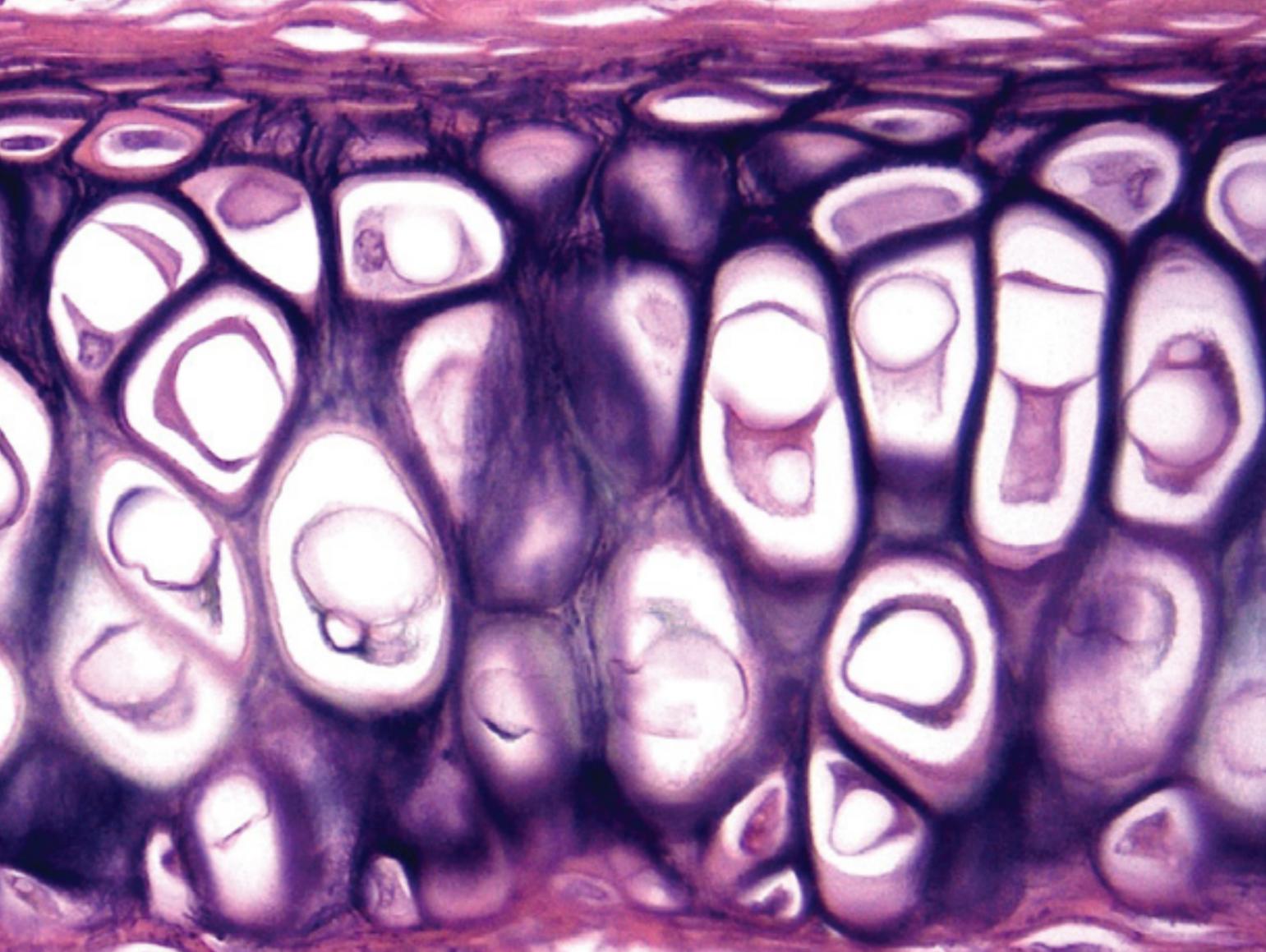
Knee Implant & Amputation

Embryology

The clinical case library contains human embryology content with 3D and 4D scans for instructors to teach life-like embryology. Students can view 3D embryo scans to visualize the stages of human development in extreme detail.

The Table's library includes scans spanning Carnegie stages 13-23 or 28-56 days. Additionally, the Table has a CT scan of a 26 week old fetus, along with imaging of various pathologies such as a fetal brain cyst, umbilical cord cyst, and Dandy Walker syndrome.





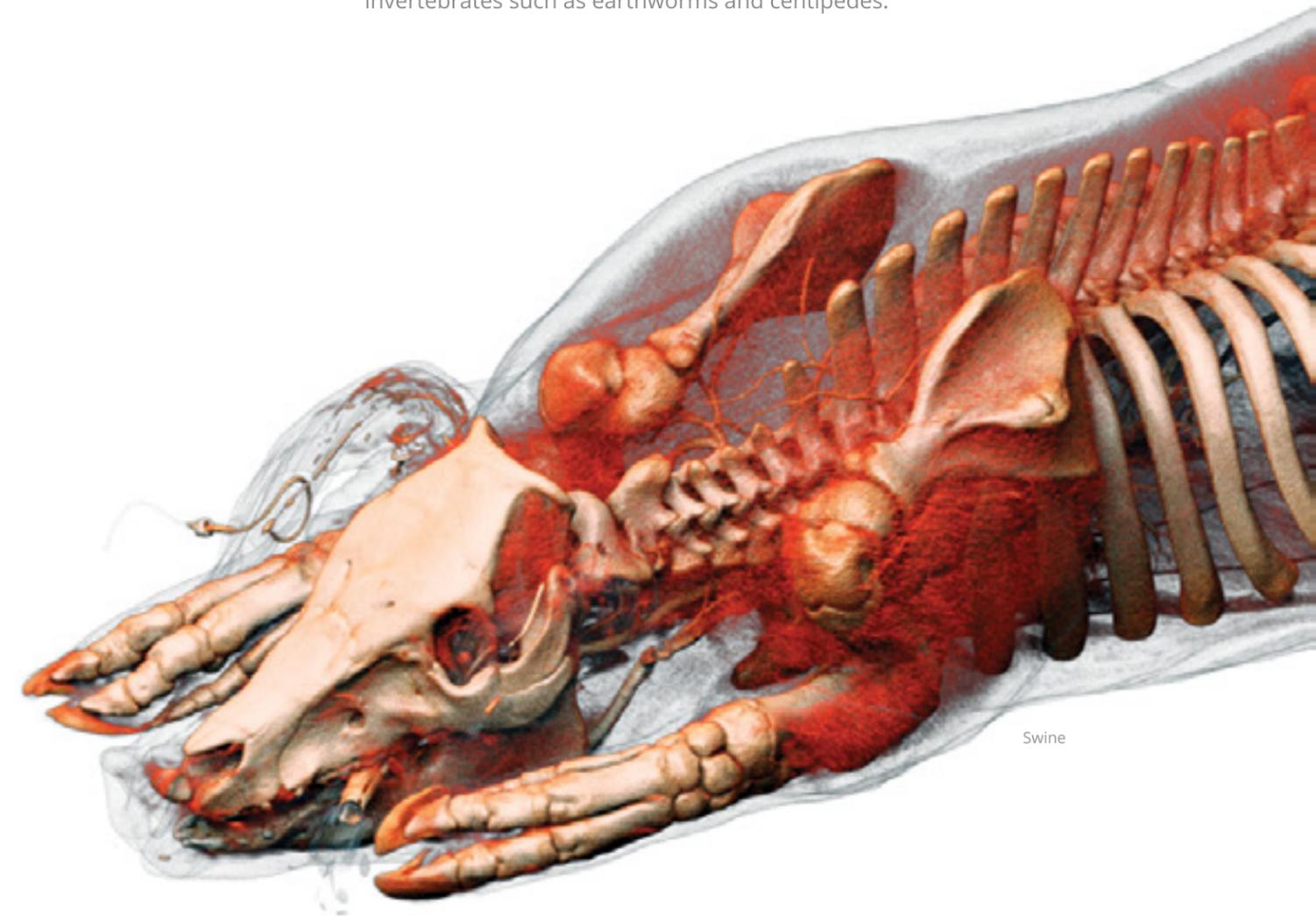
microscopic scan of
connective tissue taken
at 400x

Histology

The image library includes a variety of microscopic histology scans. Students can examine microscopic tissue structures and cell-specific biomarkers from a collection of accurately stained digital scans. The cell and tissue scans include healthy and abnormal clinical cases from across the body. Viewing histology cases offers students a well-rounded study of anatomy and pathology.

Veterinary

Included in the Digital Library are full-body cat, dog, and mouse cadavers as well as over 150 other CT scans from various species. The full-body cat and dog have been fully segmented based on real tissue data so users can toggle individual structures on and off. Additionally, there are numerous CT scans of horses, gorillas, alligators, and even invertebrates such as earthworms and centipedes.



Swine

Comparative Cases

Furthermore, the digital library offers comparative study cases with synchronized dissections of multiple cases. Open three related cases at a time. This makes the Table a great tool for studying comparative anatomy.



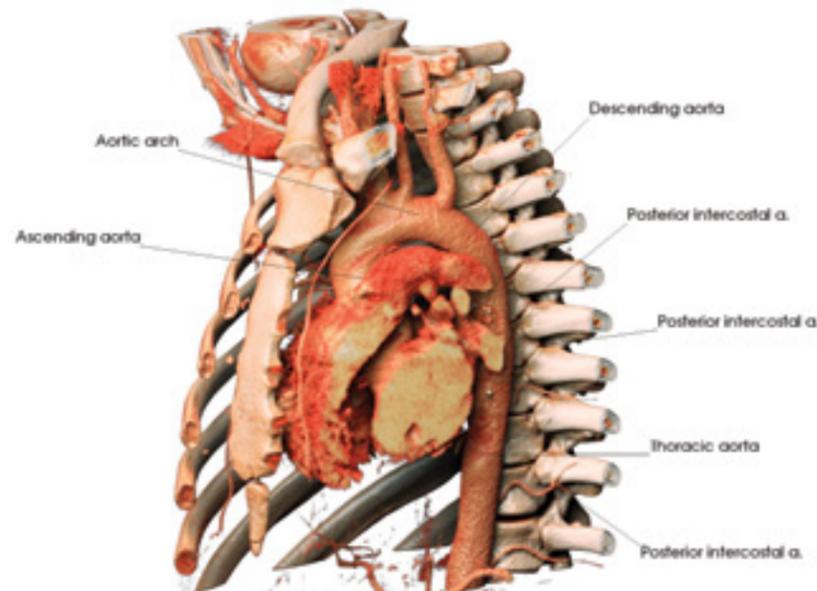
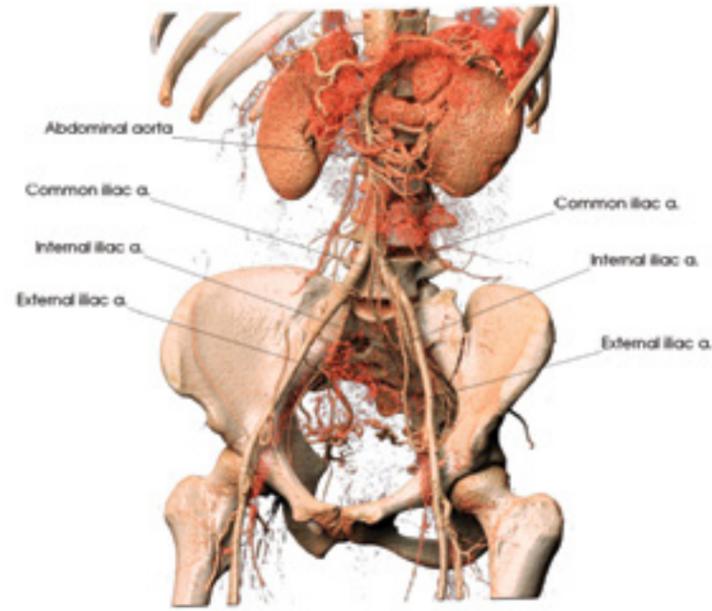
Building Your Curriculum

The Anatomage Curriculum

The Anatomage Curriculum features an intuitive interface for instructors to cover human anatomy by region and by system. A printed booklet and PDF file are included and can be used in conjunction with the Table for instructors to quickly and easily locate any anatomical region.

Teach comparative, clinical anatomy using real patient data in the form of annotated, relevantly displayed scans from the Table's library. Major body regions such as the thorax, upper limbs, abdomen and pelvis, lower limbs, and head and neck are outlined with full annotations by system and structure. The Curriculum includes guidelines for identifying structures in each region. Each section also includes suggested clinical correlates in that system. An instructor can present these cases to students when teaching about a specific anatomical region.

Anatomage has always ensured that using the Table is intuitive with a low learning curve. The Anatomage Curriculum has been designed to make the integration of the Table's content into your own classroom as efficient as possible.



Classroom Integration

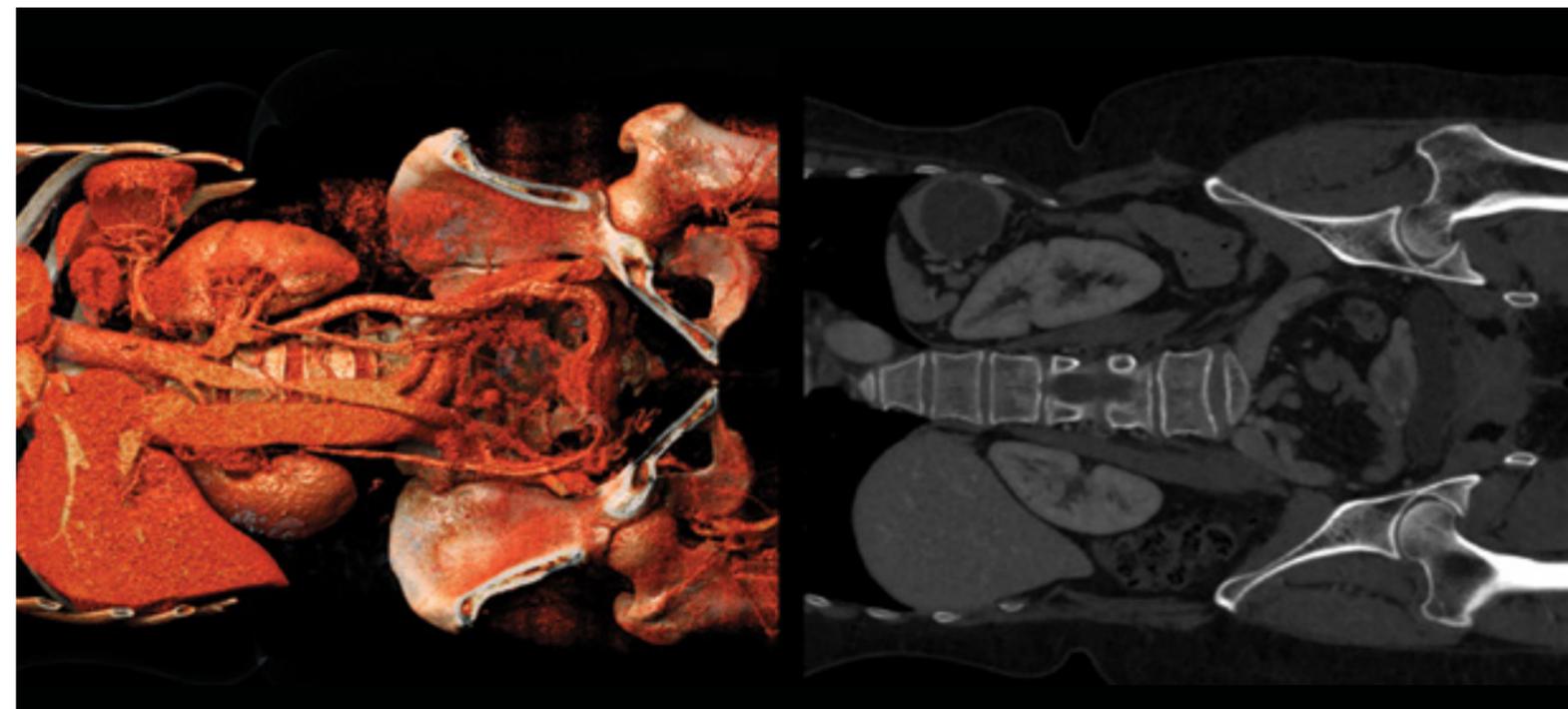
With the Table's built-in quiz mode, instructors can drop pins and create testing material for lab practicals, assignments, and examinations. The Table's video out functions ensures that it can be utilized in lecture halls through the connection to projectors, or in small groups with multiple external monitors.

Visualize & Identify Regions

When viewing a specific regional scan or clinical case, an instructor can use the Table's note-taking and labeling tools to clearly identify structures. Students benefit from these identifiers when viewing complex anatomical regions in the body and develop a better understanding of directional terminology, cutting planes, and relational anatomy.

Drive Student Collaboration

Present customized lectures with, or give students the opportunity to, explore and lead discussions. Students can form small groups to collaborate while answering questions and take quizzes using pre-loaded cases. They also have the opportunity to discuss comparisons between normal and abnormal pathologies side-by-side.



Seamless Integration

Award-Winning Volumetric Software

Every Table comes with copies of Anatomage's renowned medical imaging software, Invivo and Medical Design Studio, that can be installed on a separate workstation.

Invivo and Medical Design MD Studio are high-performance, volume-rendering software packages that provide additional tools for 3D content creation. Digital models of medical devices can be annotated, segmented, or overlaid directly onto patient scans. Invivo shares the same underlying software as the Anatomage Table and is FDA cleared for clinical applications. Open patient scans (MRI, CT, PET) for instant 2D slice viewing or 3D reconstruction. Users can make measurements in 2D and 3D for clinical or research applications.

Perform and Capture Simulations

Segment any patient scan data and create digital models. Invivo's built-in video tool easily captures and shares these simulated movements. Moreover the software can load in any 3D models and allow users to create customized simulations with these objects interacting with the scan. With the addition of 3D models added to patient scans, teaching physiology and surgical simulations is an easy possibility.

Complete Educational Platform

Combining our powerful content creation tools with the easy-to-use demonstration capabilities of the Anatomage Table, users have access to a complete platform for advanced medical education. Numerous educational institutions such as medical universities, undergraduate programs, and school districts have adopted the Table as a complete lab alternative for science programs.

The Table serves as a valuable tool for clinical planning, medical diagnosis, and patient consultation. Clinicians,

residents, and medical students can visualize accurate internal and surface anatomy in 3D for clinical training. The large number of included clinical cases ensures that medical students are adequately trained for a variety of pathologies and medical procedures. Additionally, the Table's ability to import medical scans and connect directly to PACS allows for clinicians to work with real patient data and learn from real world clinical scenarios. Patients can be presented with a 3D visual consultation and be effectively informed of their condition.



Hardware Specifications



Classic

Product Dimensions	Length: 87" (221 cm) Height: 33" (83 cm) Width: 28" (71 cm)
Weight	300 lbs (136 kg)
Display Size	84" (213 cm)
Power Supply	AC 100-250V, 50/60 Hz, 10A
Network	RJ45



Convertible

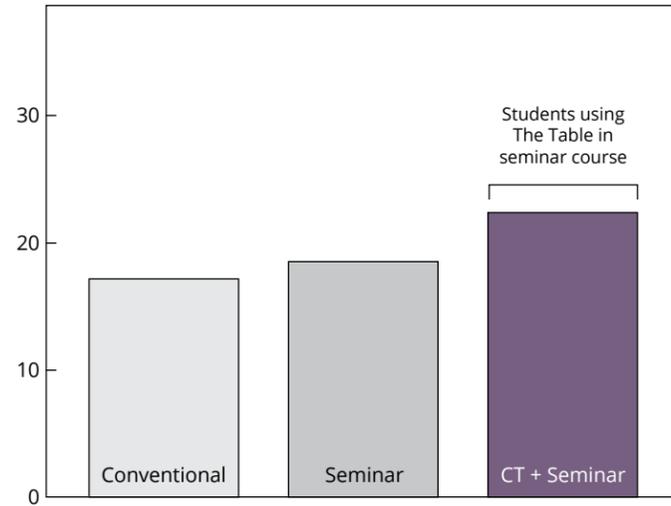
Product Dimensions	Length: 85" (216 cm)	Length: 55" (140 cm)
	Height: 33.5" (85 cm)	Height: 86" (218 cm)
	Width 34" (87 cm)	Width 34" (87 cm)
Weight	400 lbs (182 kg)	
Display Size	84" (213 cm)	
Power Supply	AC 110-250 V, 50/60 Hz, 10A	
Network	RJ45	

Case Studies

University of Heidelberg Medical School

CT-Based Virtual Dissection Performance In Anatomy Courses

Researchers partnered with the German Cancer Research Center and Karlsruhe Institute of Technology to quantify the benefits of 3D virtual dissection tables and cadaver CT scans on performance. Anatomy examination scores from three student cohorts were evaluated. Students trained with radiologic images and cadaver CT scans improved test scores respectively by 19.2% and 27.3% when compared to those in the radiologic imaging and conventional anatomy courses.



Parkview Health Medical Center Advanced Simulation Lab

Clinical Education & Surgical Planning In Medical Simulation Labs

The Anatomage Table was implemented at the Simulation Lab to further clinical training, patient education, and student skill labs at Parkview. Providers participated in procedural training on the Table for endovascular, oncological, and other surgical procedures. Surgeons utilized the Table's imaging software to model 3D scans of their patients and develop a comprehensive understanding of the spatial region of the operation.



University of Nebraska Medical Center

Investigating The Efficacy Of The Table In Medical Imaging Courses

Educators integrated the Anatomage Table into oncology, gynecology, gastroenterology, and ultrasound technology courses. Mean values of student scores from multiple gastroenterology (GI), course examinations and overall GPAs increased in the years after the Table was adopted. When comparing the 2013 and 2015 academic years, there was about a 8-9% improvement in the overall GI, normal anatomy, and pathology average scores.

Variable	Year Mean \pm SD		
	2013 N=7	2014 N=8	2015 N=10
X-Ray GPA	3.74 \pm 0.18	3.76 \pm 0.30	3.79 \pm 0.16
Prereq. GPA	3.57 \pm 0.19	3.65 \pm 0.19	3.48 \pm 0.31
GI Exam 1	75.6 \pm 9.7	81.7 \pm 7.4	84.0 \pm 7.4
GI Exam 2	77.3 \pm 12.1	83.8 \pm 5.6	84.0 \pm 4.0
GI Exam 3	76.0 \pm 10.1	82.6 \pm 8.0	81.0 \pm 6.8
GI Exam 4	82.5 \pm 7.1	89.4 \pm 3.7	89.5 \pm 5.7
GI Exam 6	87.0 \pm 7.1	94.1 \pm 5.4	89.5 \pm 5.8
Overall GI Exam	78.0 \pm 7.4	84.0 \pm 5.3	83.9 \pm 4.3
Normal Anatomy	80.6 \pm 7.1	87.3 \pm 4.2	86.7 \pm 3.5
Pathology	75.8 \pm 8.3	81.1 \pm 7.4	82.0 \pm 6.4

Tarrant County College

Table Usage Beneficial For Anatomy Courses In Community College Settings

The Radiologic Technology, Physical Therapy Assistant, Anatomy & Physiology, and Emergency Medical Technician programs benefited directly from the Table's image quality and interactive 3D content. Students found that the Table was advantageous for conceptualizing complex regions, structural relationships, and pathologies. Images from the Table were easily saved and utilized by students to prepare for in-class quizzes and tests.



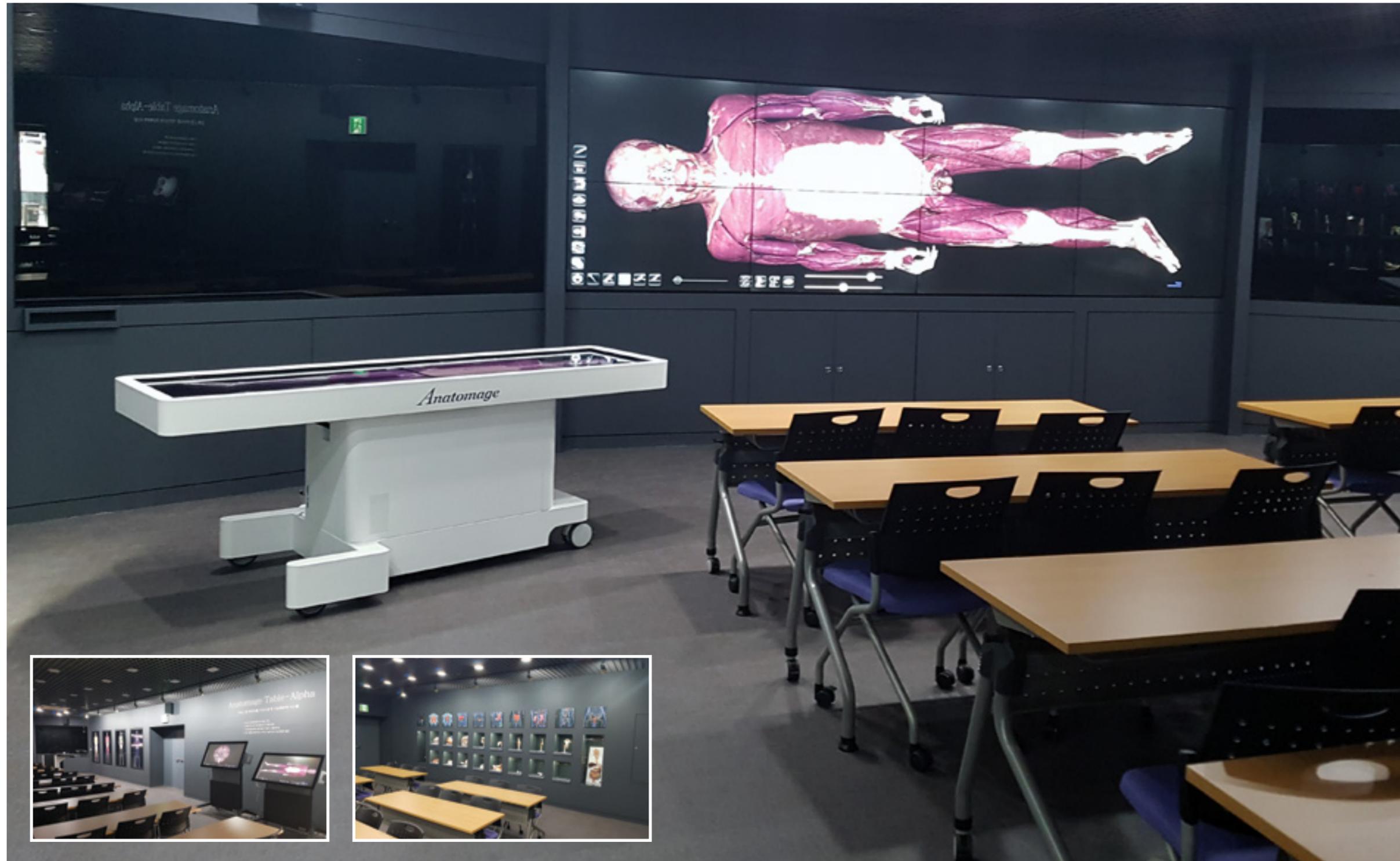
Ansan University Virtual Anatomy Classroom

Ansan University in Korea incorporated Anatomage products into the design of an innovative anatomy education facility like no other. The virtual anatomy classroom was created to provide simulation-based training for their health students. The high-tech classroom features the Anatomage Wall, Table Convertible, and Table Alpha for visually inspired lectures. Development of the classroom was an interdepartmental collaboration between the nursing, physiotherapy, radiology, and clinical pathology departments.

The classroom was designed with the aim of teaching accurate 3D anatomy in an innovative and engaging environment. Professors can project lessons that cover dissections and clinical case reviews onto large monitors from either the Table Alpha or Table Convertible. Additionally, the exhibition classroom came equipped with an Anatomage Wall installation to comprehensively review 3D cases side-by-side. Students can view 3D structures dissected at any angle and detailed examples of clinical cases in an innovative classroom designed for advanced visualization of human anatomy.

"We are proud to have the best facility in Korea that introduces an exhibition-type practice system that allows the students to experience and learn in person with interest."

Shin-Young Kim
Professor of Physiotherapy
Ansan University

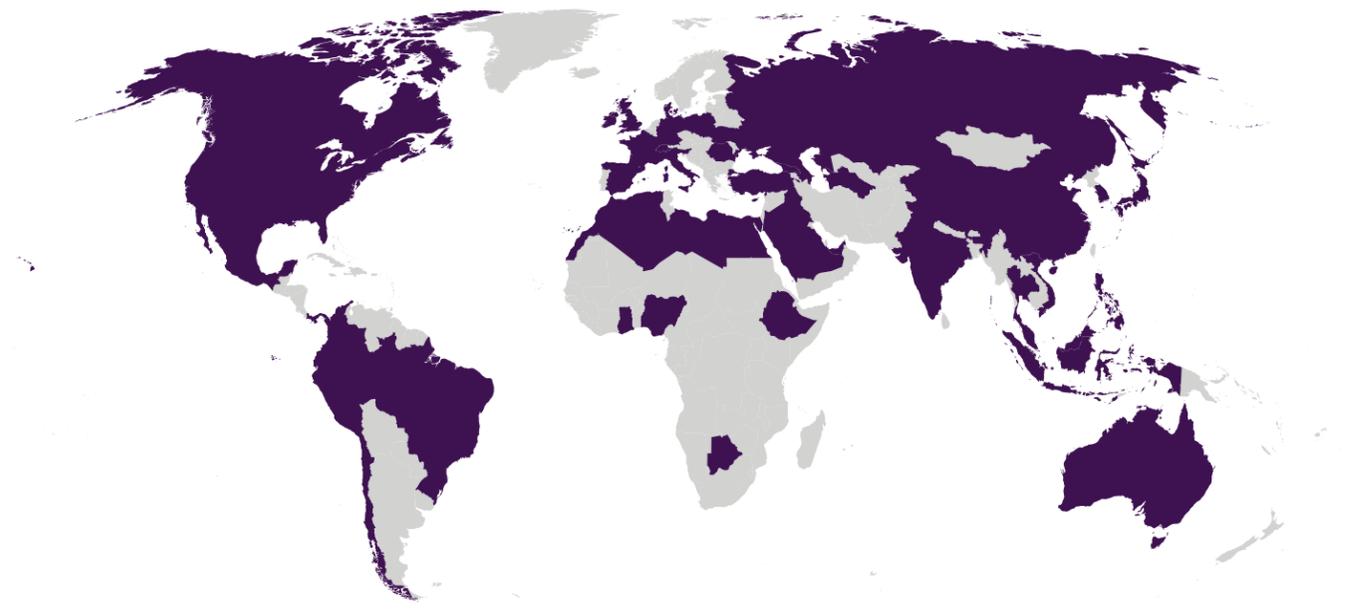


Worldwide Innovation

Anatmage Community

When you purchase an Anatmage Table you not only get all the high quality contents developed by Anatmage, but you are also part of a global community of educators and researchers who have already spent time developing their own content and ideas on how best to incorporate the Table into a wide range of curricula and disciplines.

With hundreds of Tables sold worldwide, Table users can enjoy informative annual users group meetings and developmental programs on an international scale to help ensure that the Table meets their needs. Anatmage is committed to cutting-edge technology supported by an excellent team with the drive to ensure that the Table is not just a product, but rather a community of users.



International Distribution

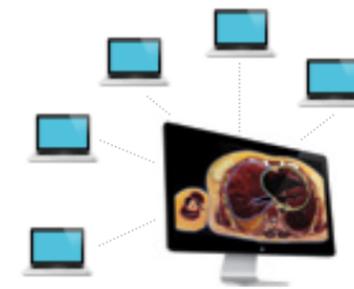
The Anatmage Table is used globally. Headquartered in California, Anatmage has two additional offices in Italy and Korea to better serve our customers abroad. We have an extensive network of international distributors, a list of which can be found on our website, that we trust to offer continuous timely service. Sales to countries where we have not found a representative that meets our standards are handled directly by us – we provide training, shipping, and support.

Forum & Support

Members and prospective members of the Anatmage Table community can connect with each other and our internal team through the Anatmage Table Forum. The forum is a place for members of the community to discuss the Table and have questions answered by our team. The Medical Table team actively monitors the forum and provides support to all users. The forum is also updated with new content about the Table and the Table community. You can visit the forum at anatmagetable.com.

Anatmage Table Product Family

The Anatmage Table family of products includes the most advanced anatomy visualization tools on the market. Powerful software and hardware makes our line of products the preferred solution for clinical and educational applications. We have expanded our Table line to include a variety of medical education products such as the Anatmage Table Alpha, Table Clinical, Wall, Navigator, and Concourse.



Concourse

Concourse is an application-based teaching tool where students and instructors can visualize real patient anatomy on their personal workstation. With Concourse, the most advanced anatomy education tool is always at your fingertips.



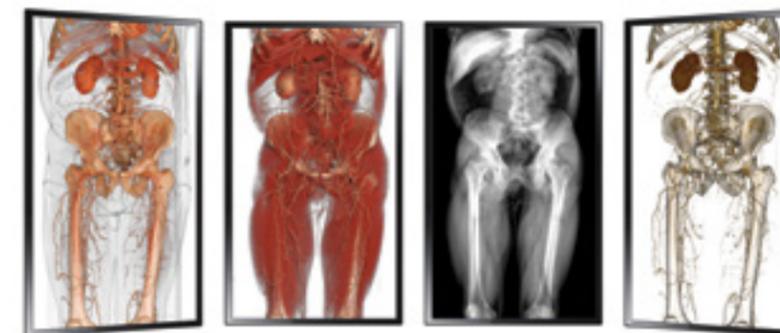
Table Clinical

Table Clinical is FDA cleared to assist in medical diagnosis and can be easily integrated with PACS. It is an invaluable tool for patient consultation, patient education, medical diagnosis, and clinical planning.



Table Alpha

Table Alpha is for advanced high school anatomy education. Users can dissect full body cadavers and animal specimens. It gives teachers access to medical-level anatomy instruction without the need of a cadaver lab.



Wall

With the Anatmage Wall, users can view 3D patient anatomy, system-by-system, side-by-side. Dissect anatomical systems of the patient using multiple visualization options and gain a comprehensive understanding of their condition. Multiple individuals can stand in front of the Wall for a collaborative anatomy-based instruction experience. The Anatmage Wall will be the premier technological showpiece for your institution.



Navigator

The Anatmage Navigator is a real-time volumetric anatomy visualization tool with tracking stylus. Users can use the stylus on 3D prints or real patient anatomy, virtually cut into the cadaver, and visualize cross-section and internal anatomy.

About Anatomage

For over 13 years, Anatomage has been a leading medical device company driving innovation in the healthcare industry. Anatomage's advanced solutions are being used in tens of thousands of clinics, hospitals, and other institutions in the US and internationally. Our products include medical tables, image-guided surgical devices, surgical instruments, radiology software, and imaging equipment.

Anatomage products are developed, designed, and manufactured following strict FDA guidelines for medical devices. Anatomage continues to establish exclusive partnerships with renowned educational institutions and medical equipment companies. Our cutting-edge and unique products have been featured numerous times in journals, publications, and the media, including: TED Talks, BBC, CBC, Japanese Fuji TV, and PBS.

Located at the heart of Silicon Valley, Anatomage is a fast-growing company that continues to thrive in a place where technology is ingrained in the culture. The company encourages the building of a diverse and positive culture and recruits top talent. Anatomage's work environment is defined by our highly talented biologists, medical specialists, and engineers who strive to create high-tech products that continue to push industry standards. Anatomage maintains strong ties with world-leading instructors and researchers by building successful partnerships at prominent institutions.

With our revolutionary family of products, we aspire to advance medical education and improve patient care throughout the healthcare industry.

Anatomage

