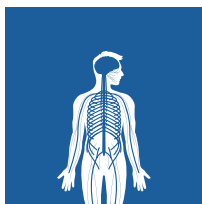


Rev. 01 En



Human Atlas



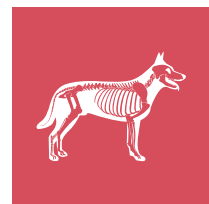
Virtual Cadaver



Photorealism

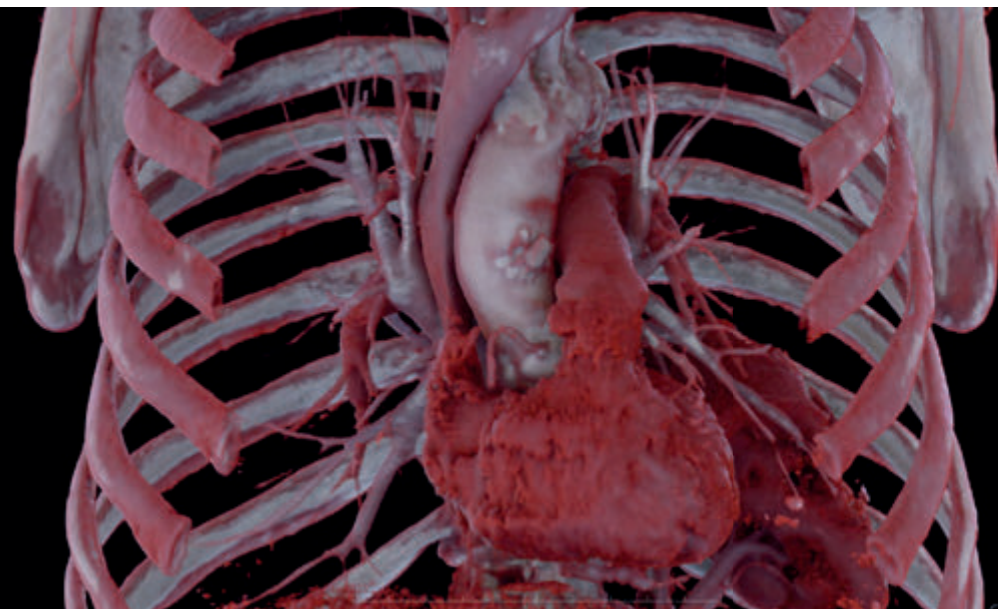
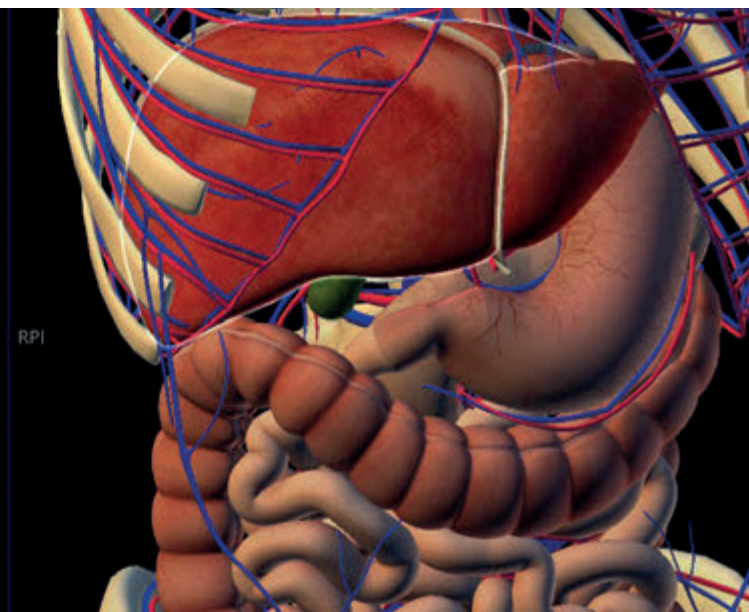
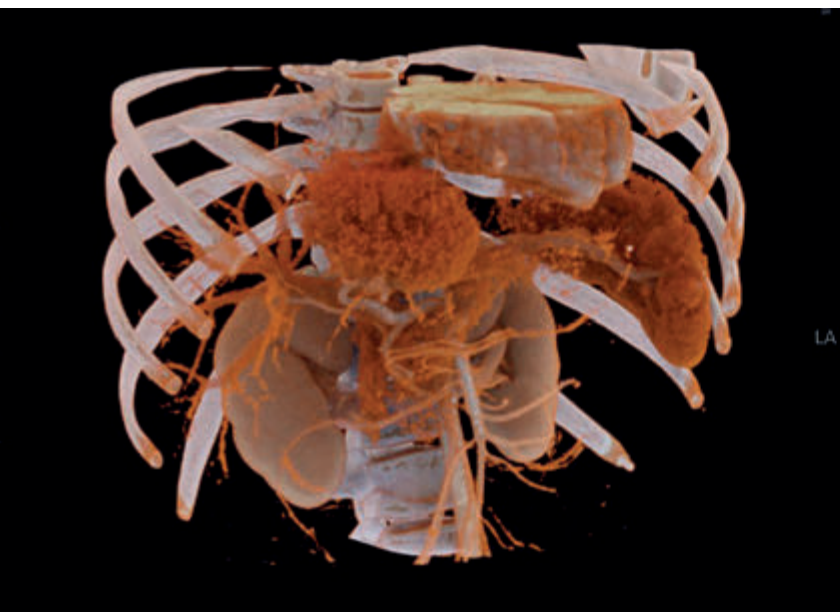
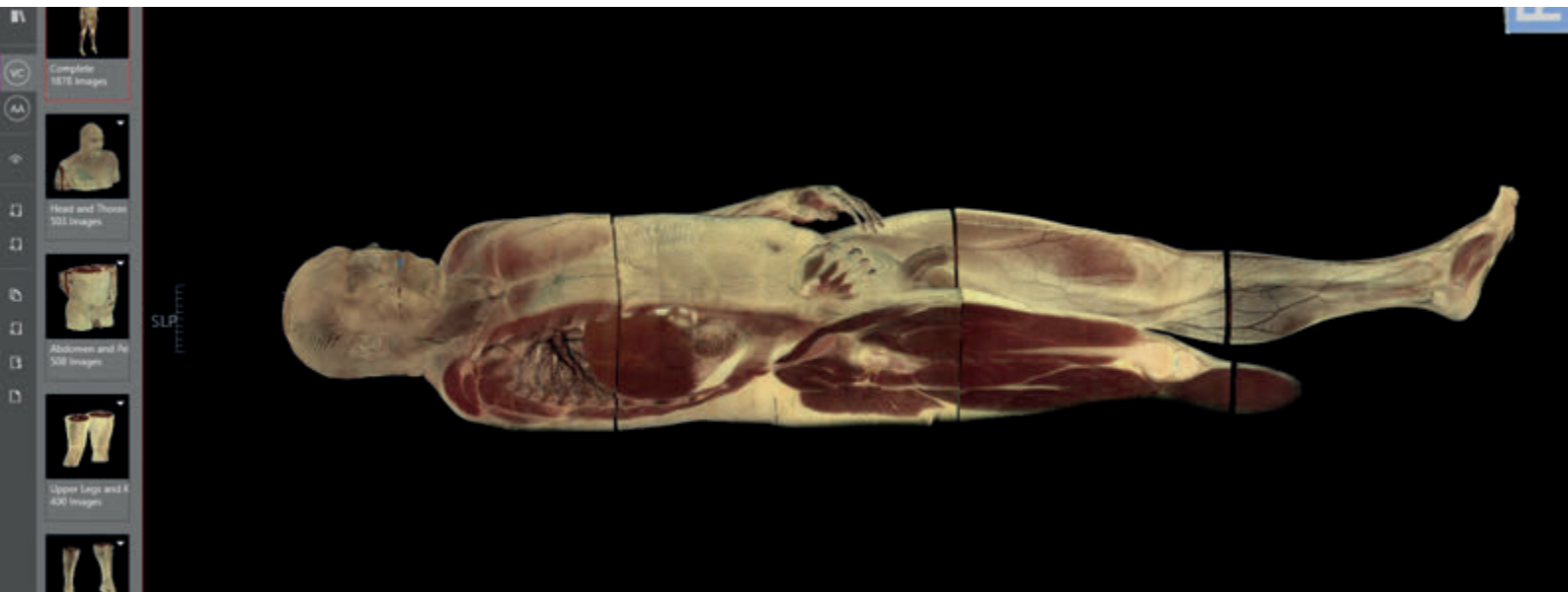


Radiology



Veterinary Atlas

ARKA MULTITECH (P) LTD.,
Chennai. India



Virtual Human body is the Key

Allowing doctors, teachers and students to interact and manipulate some human cadaver without touching them. Practice using the highest standards of clinical care, preventing patient safety from being compromised.

Considering the high prices, restrictions policies and high maintenance difficulty to have a cadaver for anatomy classes, Athena Hub is a perfect solution that allows students to interact with digital corpses instead of the aged and degenerated bodies of traditional cadaver. Models have limited interactions with limited accuracy.

Rich anatomy content

Athena Hub offers a Human Cadaver (Male), a complete Human Atlas (Male and Female) and Animal Atlas (08 animals) including their labelled systems and structures. In addition, it offers a Radiological Workstation with Photorealism Module, which includes cases of radiological study of humans and animals.

Thousands of structures are meticulously segmented to deliver the most accurate real 3D anatomy in any module view. All of this was possible by a team of specialized scientists, biomedical and engineers that created a unique piece of state of art software with such content.

Endeless Resources for Anatomy Exploration

Athena Hub is where students can interact with real patients in a virtual environment. The Photorealism Module in Athena Hub facilitates clinical training with high quality standards, ensuring that the patient's health was never be compromised. Integration with real cases provides greater wealth in clinical training and knowledge.

The details and possibilities to visualize the structures and the rich content generate more interest and attention, leading to more effective educational results.



Applications



Medical Education

- Universities
- Technical Schools
- Education institutions

Indicated for anatomy labs, anatomy and radiology classes, students, resident training, lectures and presentations of different areas in medicine that are related to the use of radiological/DICOM imaging, Virtual Interactive 3D Human Atlas, and Virtual Interactive Cadaver.

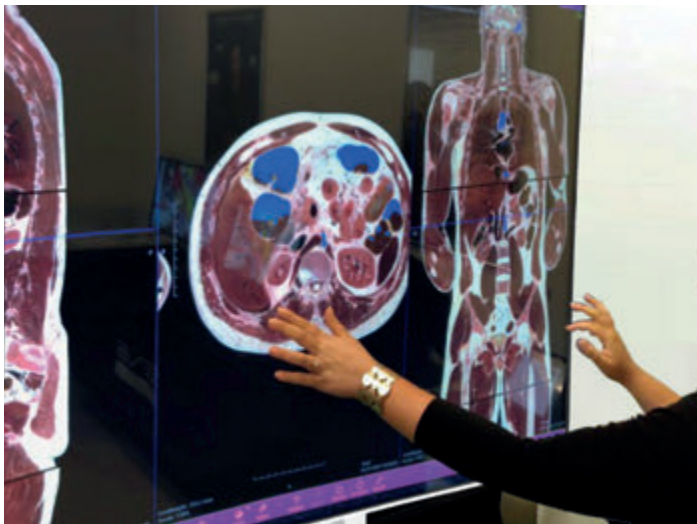
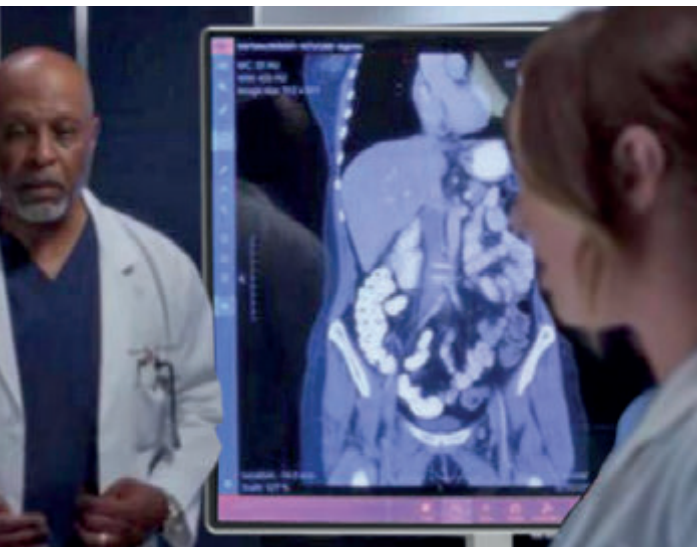


Surgical Planning

- Hospitals
- Medical break rooms

An excellent tool for discussions of medical cases, pre and post-surgical planning, and ideal for medical break rooms, clinics, and surgical centers.





Clinical Practice

- Clinics
- Practice
- Health institutions
- Healthcare insurance

Athena Hub can be used for explanations and presentations of studies and patients cases in an easy, didactic way with richness in detail, adding value to medical appointments.



Others applications

- Dentistry
- Veterinary medicine
- Forensic Medicine
- Museology
- Sports medicine
- Biology
- Bioengineering
- Research institutes
- Private companies

Effective Anatomy Education

Athena Hub is an interactive teaching platform for anatomical study, 3D virtual dissection and medical images analysis. Athena Hub includes a virtual cadaver, a full Anatomical Atlas and a Radiological Workstation, allowing the exploration and learning of human anatomy with digital resources beyond what any practice could offer.



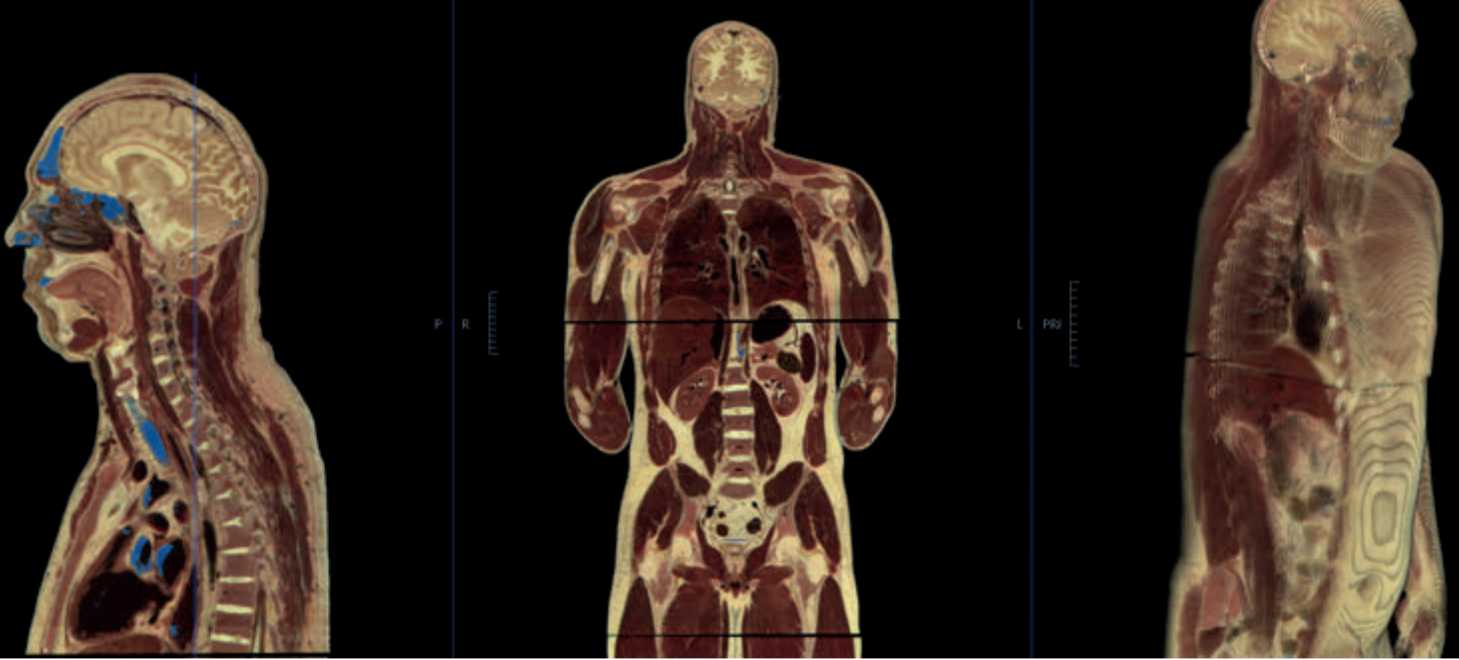


*More efficient classes,
laboratory sessions and
student acceptance.*



Virtual Cadaver

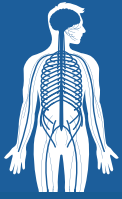




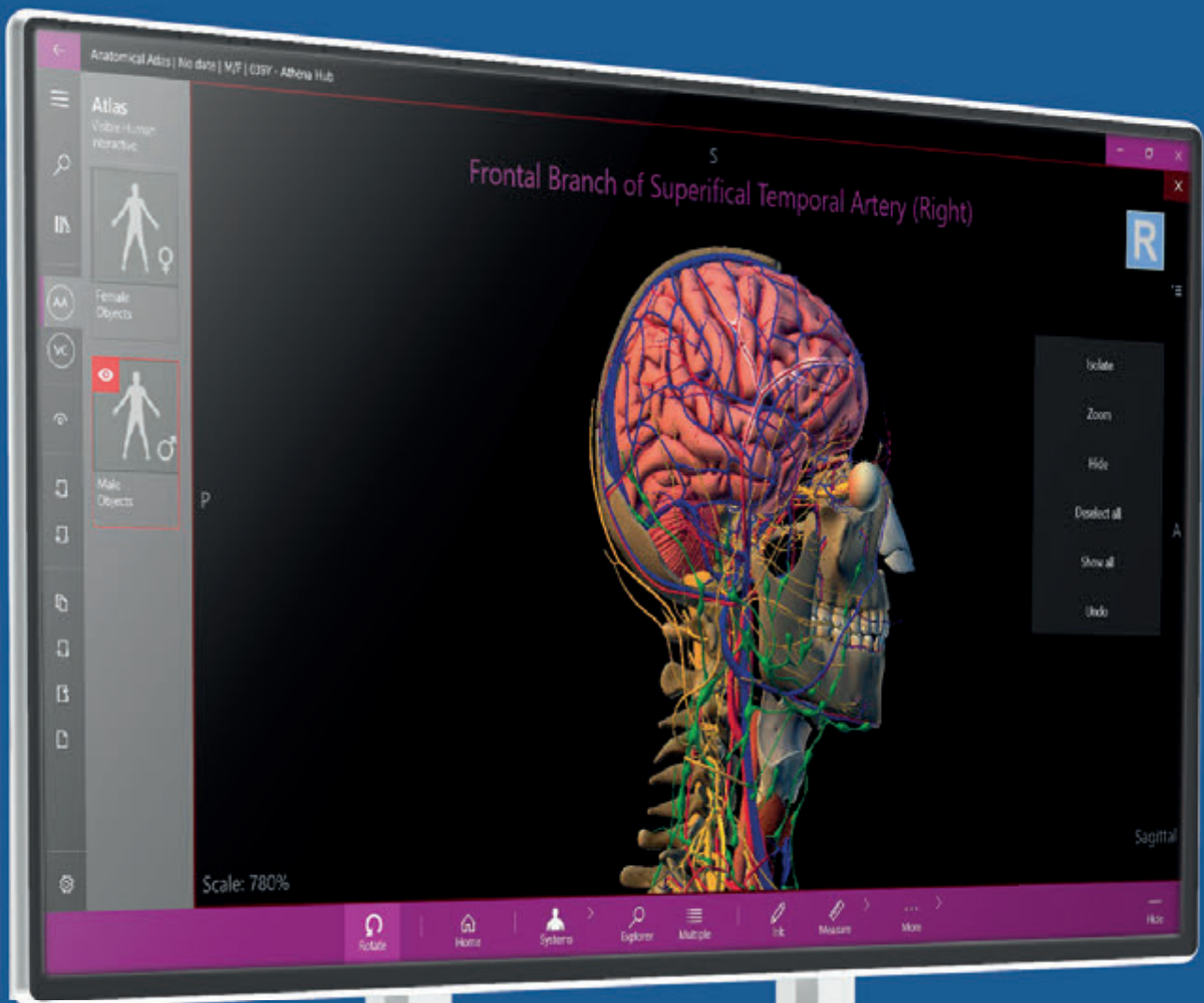
Gross Anatomy Education

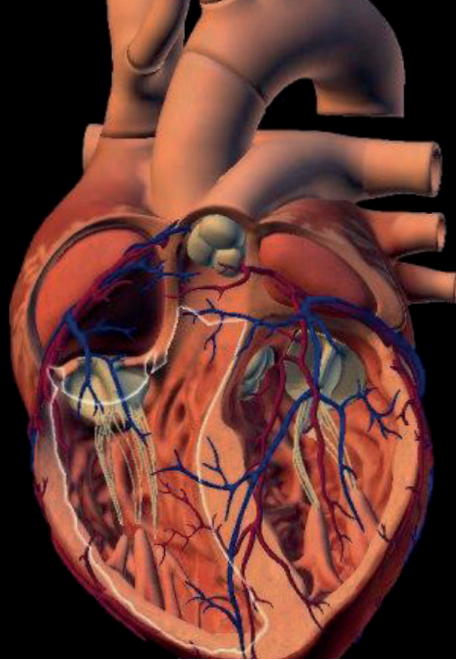
- *Real Male Human Body*
- *Clean and Safe*
- *Infra Structure Cost reduction*
- *High resolution images*
- *Interactive Dissection with labels*
- *Full Annotations and Measurements*
- *MPR - Multiplanar Reconstructions*
- *3D reconstructions*
- *Full CT exam*

Virtual Cadaver comes with color images and preserved shape, illustrating the accurate anatomical realism of a living human. Can be cropped and dissected, revealing the details of the internal structures. Measurements and custom annotations can be easily added to the visualizations of anatomical structures. The high resolution allows for the viewing of detailed structures. The regional content covers the head and neck, thorax, abdomen, pelvis, joints and other regions of the body. These contents are useful to learn and teach the details of regional structures.



Anatomical Atlas





Navigate through structures

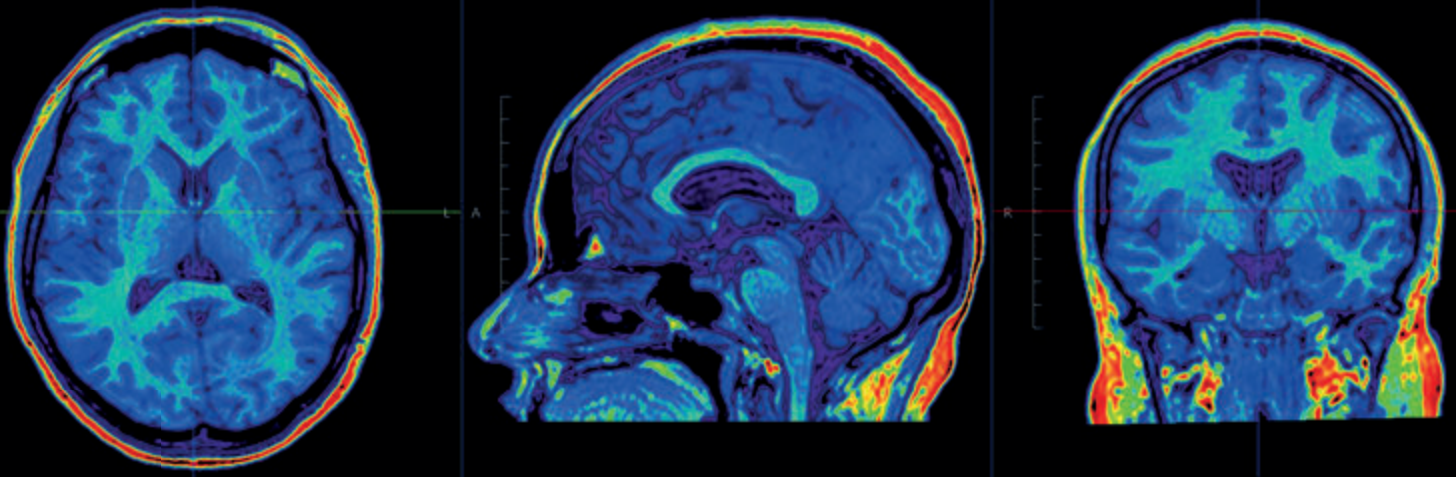
- *Man and Female 3D Atlas*
- *Over 2000 structures revised*
- *All labelled in details*
- *High resolution images*
- *Translated to 04 languages*
- *Interactive Dissection with labels*
- *Full Annotations and Measurements*
- *3D Reconstructions*
- *Advanced structures search system*

Athena Hub also has a highly interactive and versatile 3D anatomical atlas, with over 2000 structures. Navigate into entire human body, search for a specific part or organ and view any systems in the human body. Replaces the anatomical and skeletal models of the classroom and laboratory. Together, with the Virtual Cadaver and our library of medical images of all modalities, its guarantee an impressive data set to be used during an anatomy class, providing support for the discussion of a case, a surgical plan, an explanation of the lecture or even a clinical consultation.



Radiology





Radiological Workstation

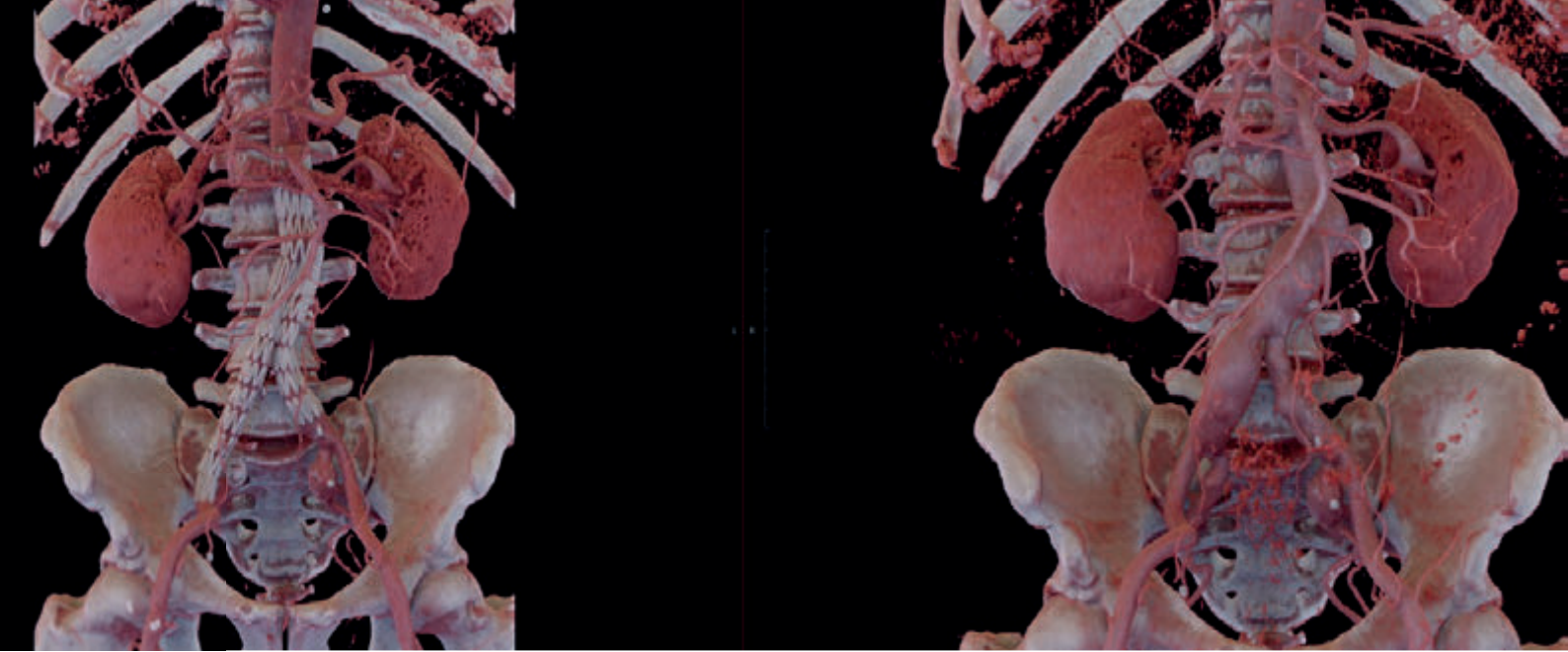
- *PACS Integration*
- *DICOM modality (CT, MR, US, etc)*
- *Multiplanar 2D Reconstruction (MPR)*
- *Non-Orthogonal MPR*
- *3D (Volumetric, Iso-Surface, MIP, X-Ray)*
- *Color Filters (CLUT)*
- *Windowing Customization*
- *Full Annotations*
- *Measurements and Spine Labelling*
- *Report and Print*
- *Share direct to Transfer Area*

Athena Hub work as a radiology workstation, it supports the most of medical imaging data and provides high quality interactive 3D renderings. Whether it is your own scan or one of the cases in the digital library, Athena Hub is a full Radiological Workstation that can be intuitively manipulated. The windowing and advanced tools allows examination of soft tissue or hard tissue review images in a traditional radiology way. The workstation is useful to study various pathological examples or to review patient scans.



Photorealism

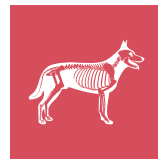




Real exams in Advanced 3D

- *3D Photorealistic Reconstructions*
- *True Realistic Color tissues*
- *Dissection Tool*
- *Windowing Presets*
- *Isolate and Hide options*
- *Complete notes and measurement*
- *Advanced Transfer Functions*

A powerful 3D Photorealistic Reconstruction, provides a volumetric reconstruction of any CT scan with advanced manipulation, processing and segmentation tools. With an exclusive dissection tool to explore in details all parts of the 3D Photorealistic visualization module.



The Ultimate Anatomy Teaching Platform

Website:

medicalharbour.com/athena-hub



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