SURGLASSES

Anatomy

Radiology

# ASCLEPIUS

## TBK-43 LT

**The product is a Virtual Electronic Anatomy Table for education only.**

CE


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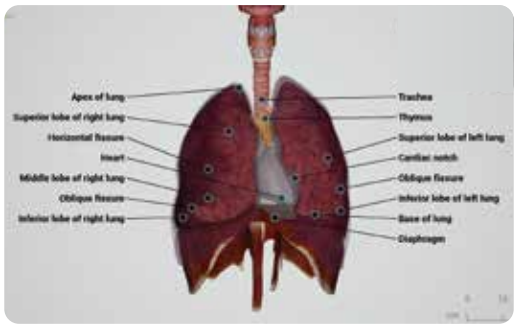
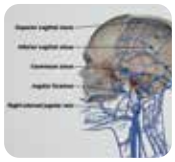
# Anatomy

## Fully Annotated Human Anatomy

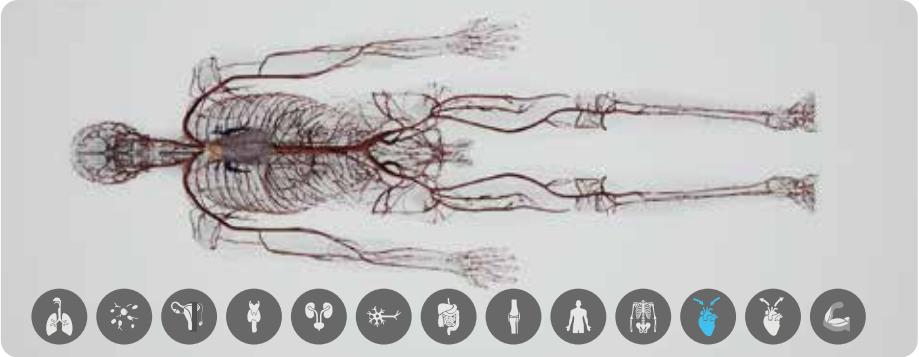
**Asclepius is equipped with a life size male and female human cadaver with full annotations about the entire body parts of a human. The table is equipped with the different planes of view, i.e., coronal, sagittal and transverse, providing the details of all the human body in depth.**



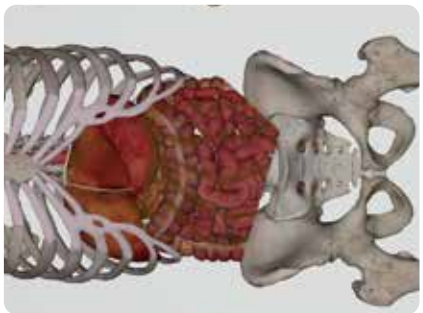
## Systematic anatomy

**Asclepius content is divided into 11 sections where the professors can teach the students in details each and every segment, for example, reproductive system, respiratory system, and others. These segments make it easier for the students to remember the pictorial presentation of the sectional human anatomy.**




## Virtual Interactive Dissection

**The virtual dissection tool of Asclepius is one of the most user friendly feature available among the virtual dissection tables. One touch dissection of the virtual human cadaver with full annotation is available with the table. Virtual dissection feature is replacing the traditional anatomy labs in the universities as it is re-usable any number of times.**

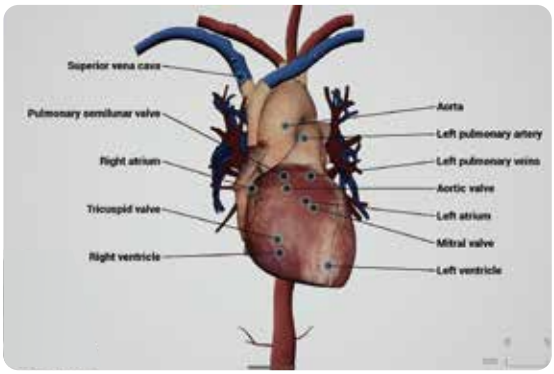


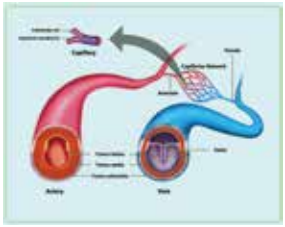
## Virtual Scope Teaching Mode

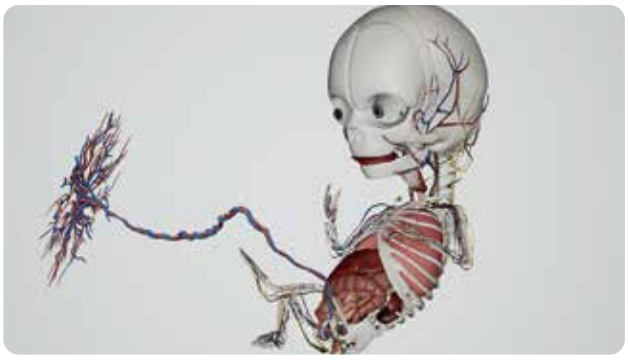
**Endoscope teaching mode gives the professors, students and instructors an advantage to travel through the hollow organs of the human body. This feature comes with the zoom in-zoom out, illuminating lamp, adjusting the aperture and the movement rate.**

## Organ animation

**Asclepius is equipped with the animations of the heart with full annotation describing the parts of the heart, simulation of the heartbeat along with the ability to view the sagittal, coronal and transverse view of the beating heart.**



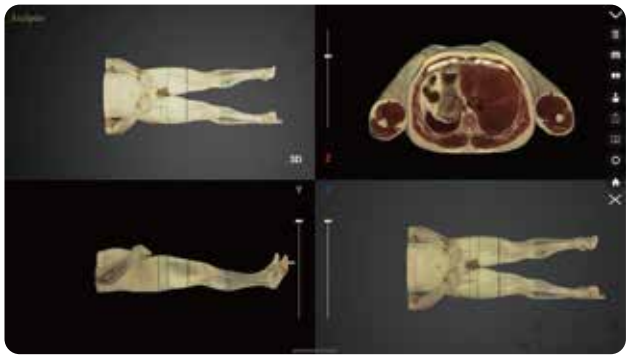


## Embryology teaching

**The embryology teaching instructions, which including illustrations of the fetal development process from gamete formation to August and September. It can be matched with the model teaching instructions to help teachers reduce the time for writing text in the classroom, and can Show more rich and diverse pictures to assist students in the embryonic course content.**

## 3 Axis Display Mode

**The possibility of viewing all the 3, sagittal, coronal and transverse, view now comes in handy with the Asclepius. With the control bar, it gives the professors and instructors a full control on the view point of the human anatomy.**

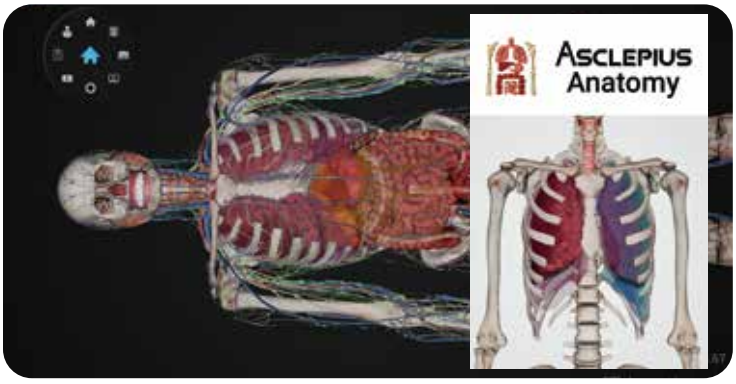


## Regional anatomy

**Along with the full human anatomy, Asclepius comes with the regional anatomy of the human as well where the human body is divided into chest, ankle, elbow, thighs and more.**

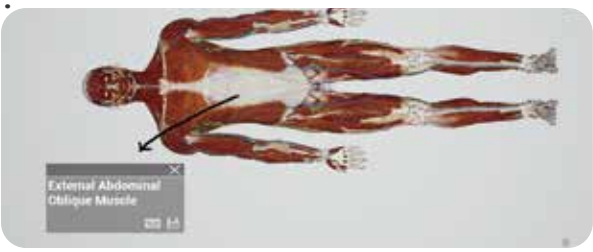
## Microsoft Application

**Asclepius Virtual Anatomy Table comes with the license for the Microsoft APP for the students to download on laptop.**



## Note

**Asclepius is equipped with tools for teachers to mark notes or enter texts as notes while teaching. It can also take screenshots and save it into an external USB to be used during other lectures .**



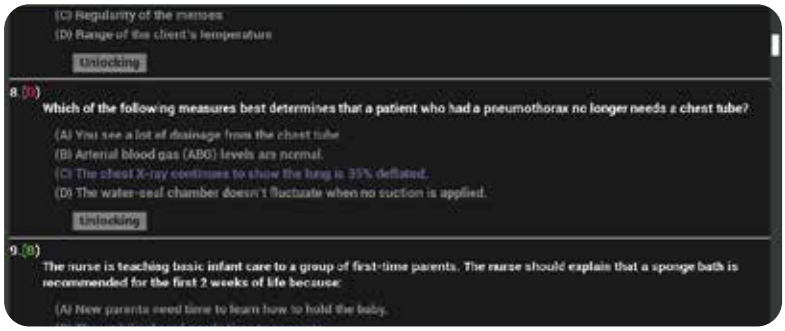


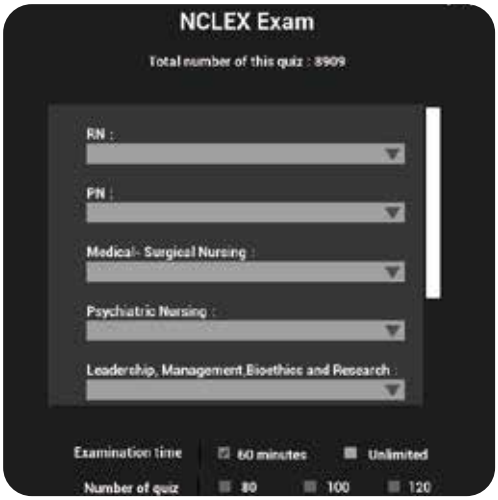
## Free Hand Cut

**Free hand cut gives the option to perform the dissection of the virtual human cadaver in form. Professors or students can draw any form to perform the dissection in that respective form.**

## Multiple choice exam

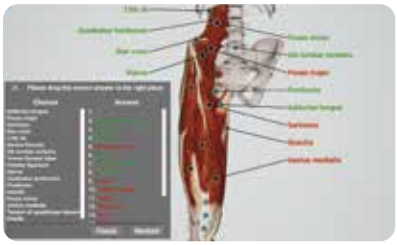
**Asclepius comes pre-loaded with more than 12,000 quizzes covering the whole medical curriculum.**




## Teaching Aid Tool


**Save the current state**



**Quiz**

# Radiology

Radiology is capable of processing large numbers of image data and perform surgical simulations, allowing you to visualize 2D / 3D image data analysis and experiment the simulations.

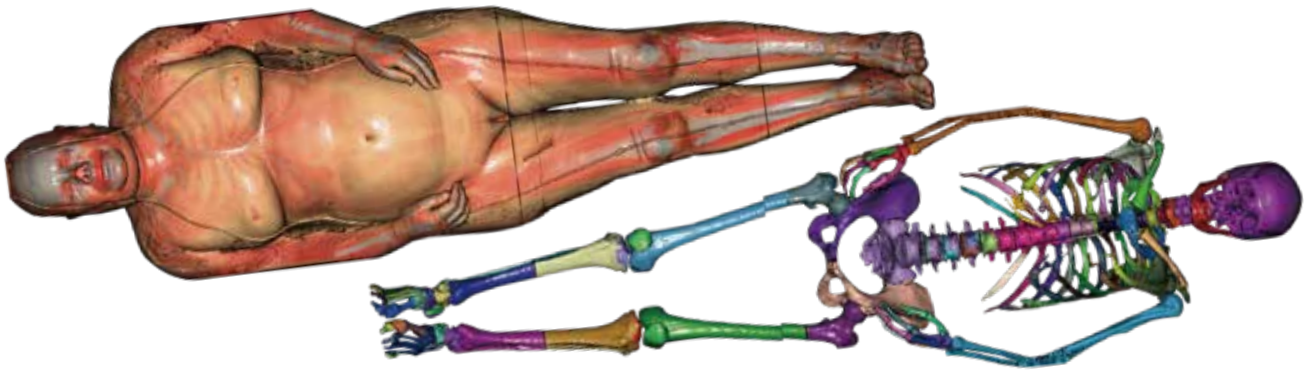
Radiology runs surgical planning and simulations on the following datas including:

- CT computer tomography files
- 3D image format files
- MRI scan file

STL PLY OBJ

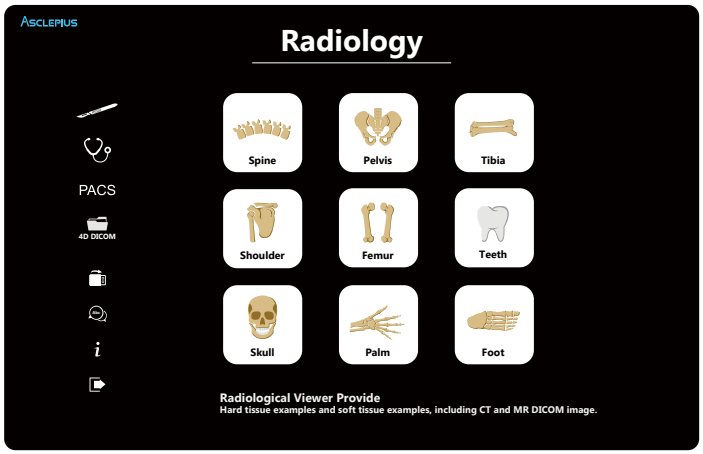
## DICOM based virtual cadavers

Asclepius is providing real sized virtual cadavers that are built from combination of DICOM data and 3D rendering system to universities, so that students are able to study in depth of human anatomical structure.



## Import option

Asclepius comes with fetaure where the DICOM files can be imported into the table. DICOM files can be of the human or animal for the comparative study.



## Render effect

**Image color effects are used for 3D image color simulation in 3D interface. Four different 3D image applications are provided.**

- **Basic effect**
- **Material dyeing**
- **Stereo rendering method**
- **X-ray simulation**

## Soft tissue and Hard tissue

**The display function switches the display between soft tissue and hard tissue. The loaded image file can switch the 3D image display threshold in the 3D image interface. There are two kinds of switching between skin and bone block display. The 3D image can be switched into the desired display threshold.**

## Simulation of pre-surgical planning for education

**Radiology is dedicated to the software system for orthopedic medical imaging educational applications. It has developed a number of digital image simulation operations and visual image operations. This is also the Radiology's core processing operation function for the pre- surgical simulation planning of digital images to educate the future doctors and surgeons.**

**Such as**

**Spinal puncture**

**Reduction of fracture**

**Bone plate**

# Asclepius ——TBK-43 LT

**TBK-43 LT (Lecture Table) with the portability and easy of movement works as a perfect teaching aid tool for the learning centers in the medical schools. The TBK 43 LT can be used in the Landscape mode and can be tilted at an angle to provide a perfect teaching platform for the professors and a fully annotated platform for learning for the students.**

## Feature

| | Anatomy + | Radiology |
|---|---|---|
| Real size virtual human anatomy | ● | |
| Human anatomy of different layer | ● | |
| Medical education supplementary | ● | ● |
| Friendly interface to easily use | ● | ● |
| Medical visualizing platform | | ● |
| Educational Purpose Research | | ● |
| Connect to any types of PACS system | | ● |
| Allowed to design surgical planning | | ● |
| 3D image conversion in 20 second | | ● |
| CT/MRI based virtual cadavers | | ● |
| 3D print out | | ● |

## Hardware specification

| | |
|---|---|
| CPU | Intel i5 |
| RAM | 16 GB |
| HDD | 1 TB |
| SSD | 240 GB |
| Screen size | 43 inch |
| Resolution | 1920 X 1080 |
| Angle | 0° ~ 45° |
| Dimension(Horizontal) | (L)101cm X (W)73.5cm X (H)86.6cm |
| Dimension(Vertical) | (L)101cm X (W)62.1cm X (H)126.7cm |

* Taiwan Main Orthopaedic Biotechnology Co., Ltd.
would upgrade the system for better perfomance at our discreetion.