VIRTUAL Dissection Table

KALBOD NAMA

RTPP

VIRTUAL
Dissection Table

Visualization Comes True

RTPP

Tabriz University of Medical Sciences

توجه: برند کالبد نما دارای گواهی ثبت علامت بوده و همچنین دستگاه فوق دارای گواهی ثبت اختراع می باشد لذا هرگونه استفاده از نام و برند دستگاه اکیدا ممنوع بوده و پیگرد قانونی خواهد داشت.

Rayan Teb Pishgame Parmis

(LCC) Reg Number: 45664

Add.: Tabriz University of Medical Sciences Medical Technology Complex, Pasteur street, Tabriz - IRAN

Postal code: 5138916119 Tel: +98 41 33323840

www.kalbodnama.ir

E-mail: info@kalbodnama.ir

@kalbodnama

ATAgraphic.com 333 44448

Ver.: 2.1

KALBOD NAMA RTPP

Some Universities and Scientific Centers Equipped With Kalbodnama:

University of Medical Science of **IRAN**
University of Medical Science of **Shiraz**
University of Medical Science of **Tabriz**
University of Medical Science of **Azad Tabriz**
University of Medical Science of **Mashhad**
University of Medical Science of **Birjand**
University of Medical Science of **North Khorasan**
University of Medical Science of **Dezfol**
University of Medical Science of **Bushehr**
University of Medical Science of **Torbat Heydarieh**

University of Medical Science of **Gonabad**
University of Medical Science of **Ilam**
University of Medical Science of **Iranshahr**
University of Medical Science of **Qom**
University of Medical Science of **Kashan**
University of Medical Science of **Alborz**
University of Medical Science of **Hormozgan**
University of Medical Science of **Neyshabur**
University of Medical Science of **Yazd Shahid Sadoughi**

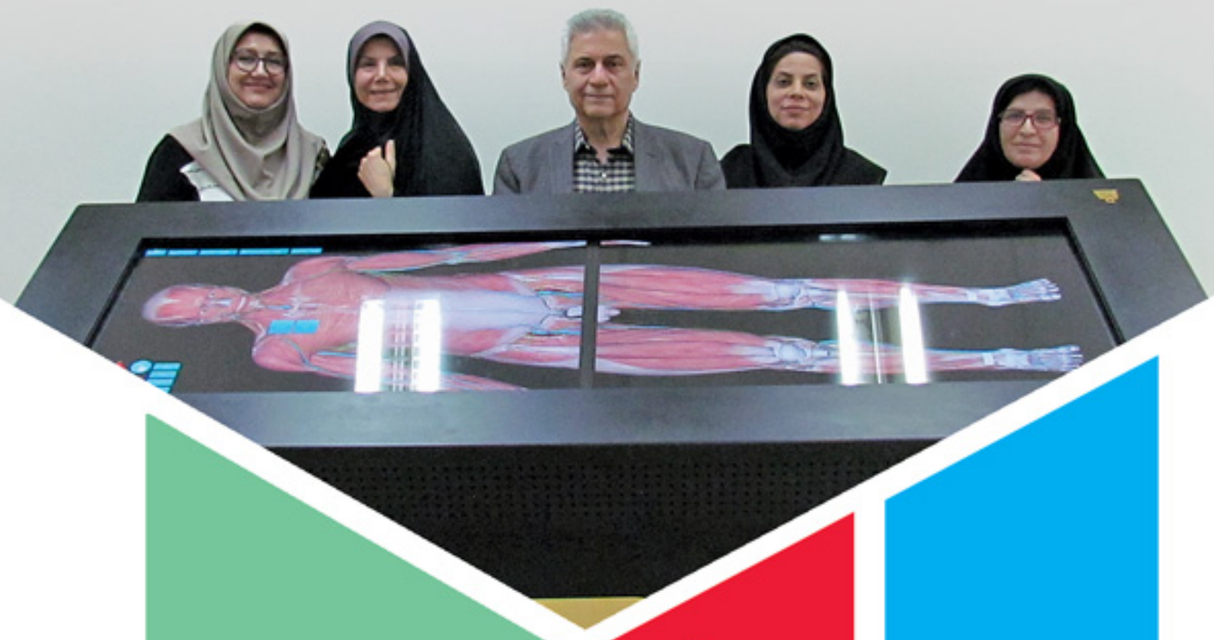
University of Medical Science of **Larestan**
University of Medical Science of **Ardabil**
University of Medical Science of **Saveh**
University of Medical Science of **Zanjan**
University of Medical Science of **A.J.A**
University of Medical Science of **Kerman**
University of Medical Science of **Qazvin**
University of Medical Science of **Isfahan**
University of Medical Science of **Khoy**

University of Medical Science of **Maragheh**
University of Medical Science of **Esfarayen**
University of Medical Science of **Torbat–e Jam**
University of Medical Science of **Sirjan**
University of Medical Science of **Zahedan**
University of Medical Science of **Gilan**
University of Medical Science of **Ahvaz Jondishapur**
University of Medical Science of **Shahroud**
University of Medical Science of **Shahrekord**
University of Medical Science of **Zabol**

Student's Research Center of **Khayam Isfahan**
Student's Research Center of **Baqer Al-Olum Urmia**
Student's Research Center of **Jabir ibn Hayyan Khoy**
Student's Research Center of **Azarbaijan - 3 Tabriz**
Student's Research Center of **Sannadaj - 1**
Student's Research Center of **Prof. Hessabi Hamedan**
Student's Research Center of **Shahid Chamran Kabudrahang**
Student's Research Center of **Salmas**







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intro

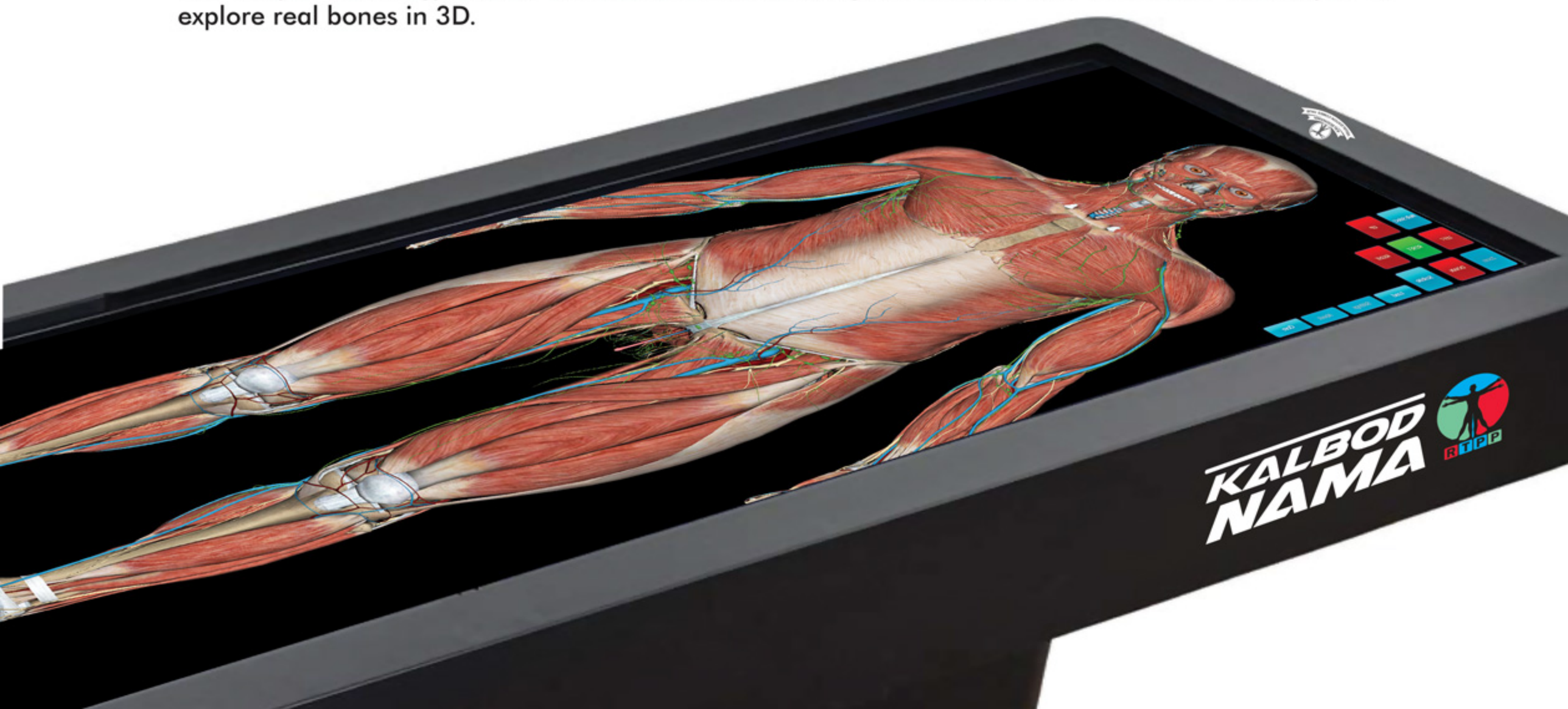
Ryan Teb Pishgam Parmis Company, with the approval of the working group of knowledge-based companies and the owner of the exclusive license of the brand "Kalbodnama" with registration number 391069, is the first and only manufacturer with an operating license number 49088 in Iran. Kalbodnama has a patent certificate number 026999 A 89. This company is proud that in addition to covering all parts of our beloved homeland in terms of sales and support, having the European CE standard, it can export to European, Asian and American continents.

WHAT IS KALBODNAMA?

It is a technologically advanced educational system that simulates human anatomy. Smart virtual dissection table (KALBODNAMA) is a technically advanced educational system for medical students providing a touch screen which enables them to learn the human anatomy using real human body datasets. It can be a valuable alternative for cadaver-based studies.

WHY USE KALABODNAMA?

- Unlike cadavers which are disposable, KALBODNAMA is reusable, so there are no recurring acquisition costs, the product will save significant money.
- Unlike high preservation costs of cadavers such as freezer requirement, storage and formalin treatment, KALBODNAMA has no maintenance costs.
- While the cadavers are so scarce and costly, KALBODNAMA is so reasonable.
- Toxic and chemical treated cadavers have significant effects on human health & environment.
- Using the unique capabilities of the Adobe Connect program installed on the body map will allow you to teach online.
- The unique Osteology section of Kalbodnama, including attachments and landmarks, allows you to explore real bones in 3D.



Some approvals and letters of recommendation

Letter of recommendation from the President of the Islamic Republic of Iran

Forty percent subsidy from the Vice President for Science & Technology of the Islamic Republic of Iran

Exclusive production and sales certificate

Approval of Iran University of medical science anatomy group

Approval of Director of Neuroscience Research Center of Iran university of medical science

Approval of Tabriz university of medical science

Approval of Madani Cardiac subspecialty hospital

Thirty percent subsidy from the Ministry of Health

Approval of Anatomy Department of Tabriz University of Medical Sciences

CERTIFICATES


قوه قضائیه
سازمان ثبت اسناد و املاک کشور
گواهی نامه ثبت اختراع
۰۲۶۹۹۹ الف/۸۹

عنوان اختراع: دستگاه هوشمند میز تشریح مجازی به صورت سه بعدی

طبقه بندی بین المللی: A61B 1/32;A61B 17/00;A61B 1/313

Patent Certificate


Quality Assessment Lia

Registration Certificate

ATTESTATION OF

COMPLIANCE

Order NO: 20779467

Holder : Rayan Teb Pishgam Parmis Co.

Address : Medical Equipment Development & Technology Center, Tabriz University of Medical Sciences, Old Pastor St., Tabriz, East Azarbaijan, Iran.

Products Name : Virtual Dissection Table

This Attestation of Compliance is Hereby Issued to the Above Named Company. The Test Result of This Report Relate Only Based on Annex 5 Self Testimony, Self Certified and Technical File that Prepared by Company in Below Directive :

93/42/EEC, 2014/35/EU, 2014/30/EU

This Device Has Been Shown to be in Compliance Only in Accordance with the Technical Files that Prepared by Company.

Date of Issue : 28-Jan-2021
Expiry Date : 28-Jan-2024

www.qalcert.co.uk

European CE Standard Certificate


بسمه تعالی
گواهی تاییدیه شرکت رایان طب پیشگام پارمیس
دانش بنیان
مرکز شرکت های دانش بنیان
کارگروه ارزیابی شرکت‌ها و موسسات دانش‌بنیان
تاییدیه شرکت‌های دانش‌بنیان

Confirmation of
Knowledge-Based Company


جمهوری اسلامی ایران
وزارت صنعت، معدن و تجارت
پروانه بهره برداری

Operation License

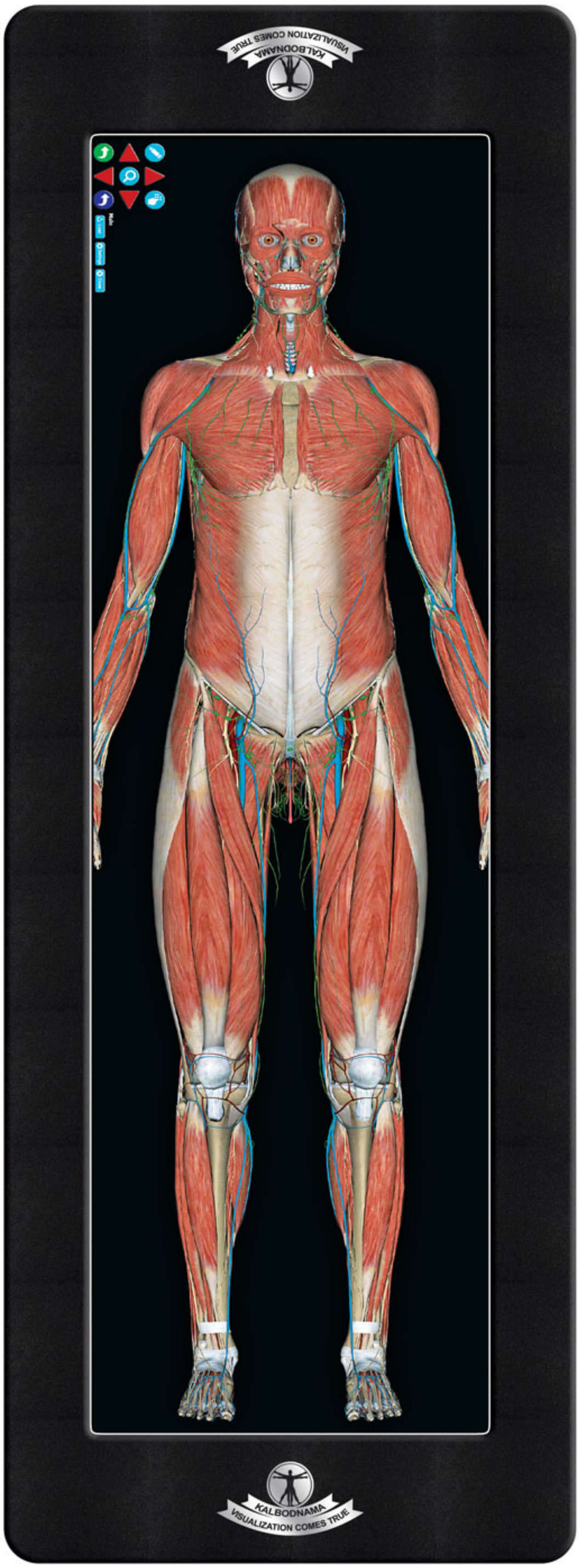
Trademark
Registration Certificate

FEATURES:

THE TABLE HAS 8 DISTINCT EDUCATIONAL MODES:

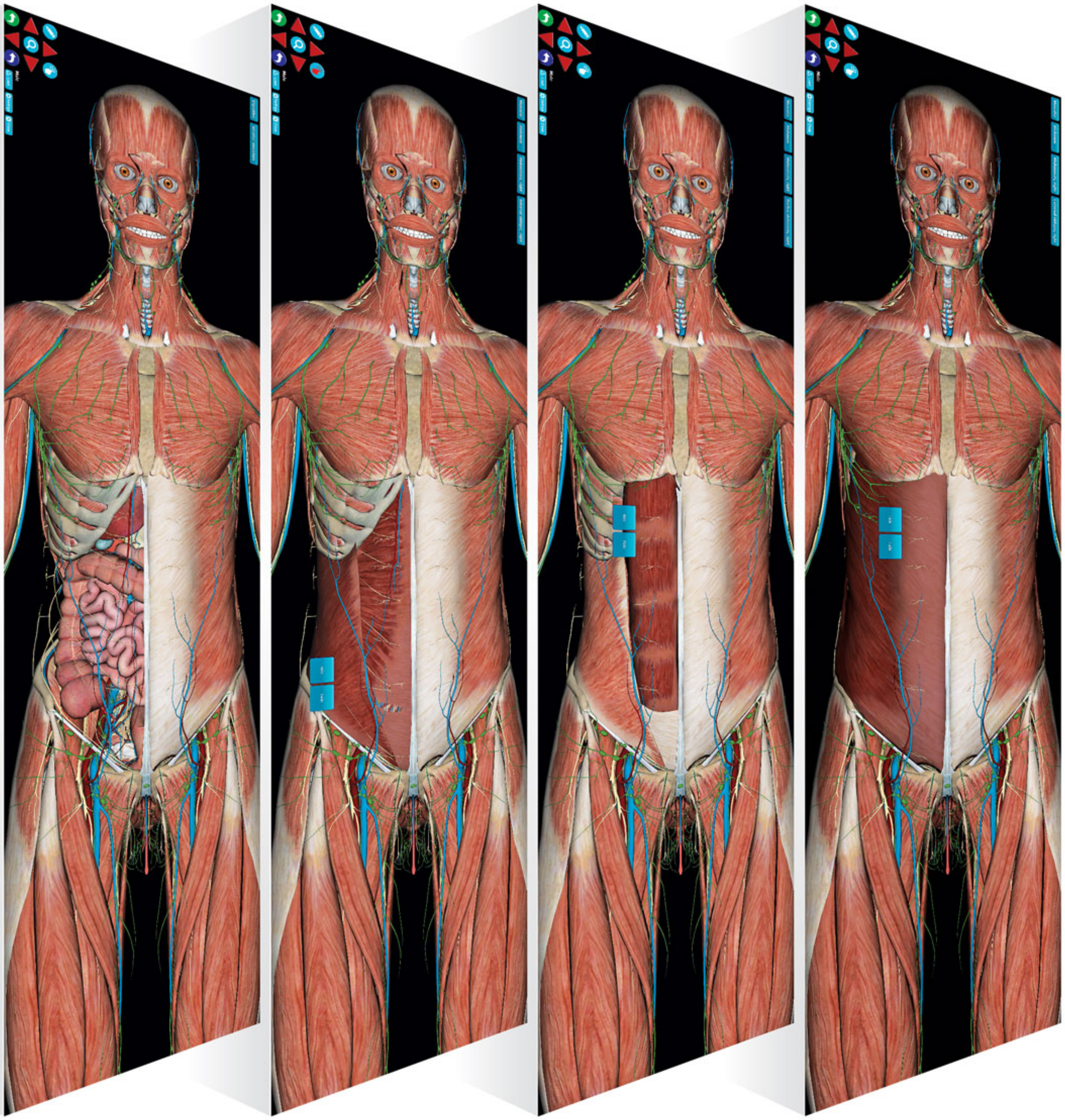
1.Anatomical models

- Whole body studying with precision and detail, in a 3D environment.
- KALBODNAMA offers the ability of removing categories and subcategories.
- KALBODNAMA offers the ability of transparenting categories and subcategories.
- Labeling each single part of the body.
- Possibility of scribbling on touch screen display.
- Ability of take preparing tests and quizzes.
- Ability of printing each organ using 3D printer.
- Ability of having any anatomy reference along with 3D models in order to obtain further information.

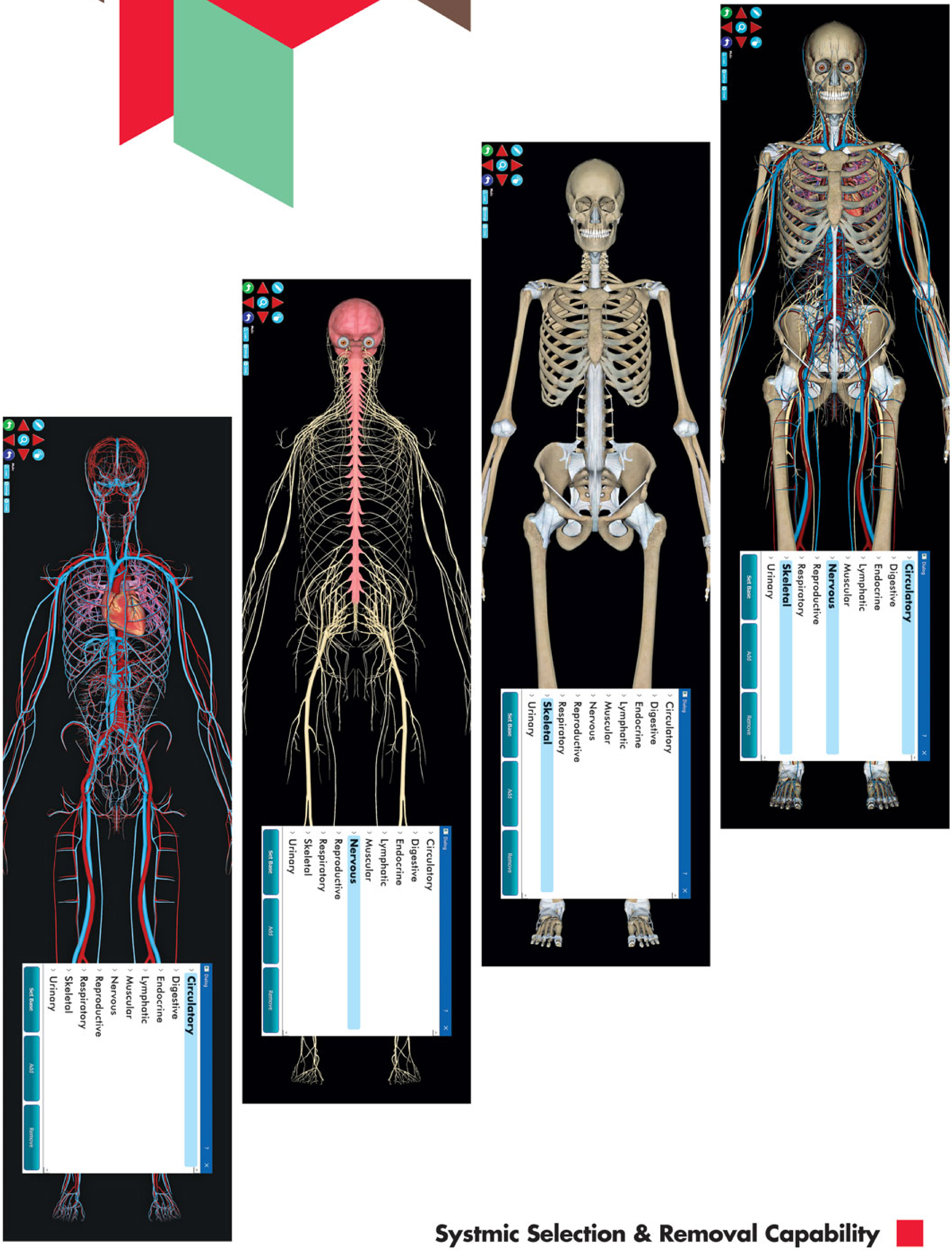


Human body created with

60,000,000 VERTICES



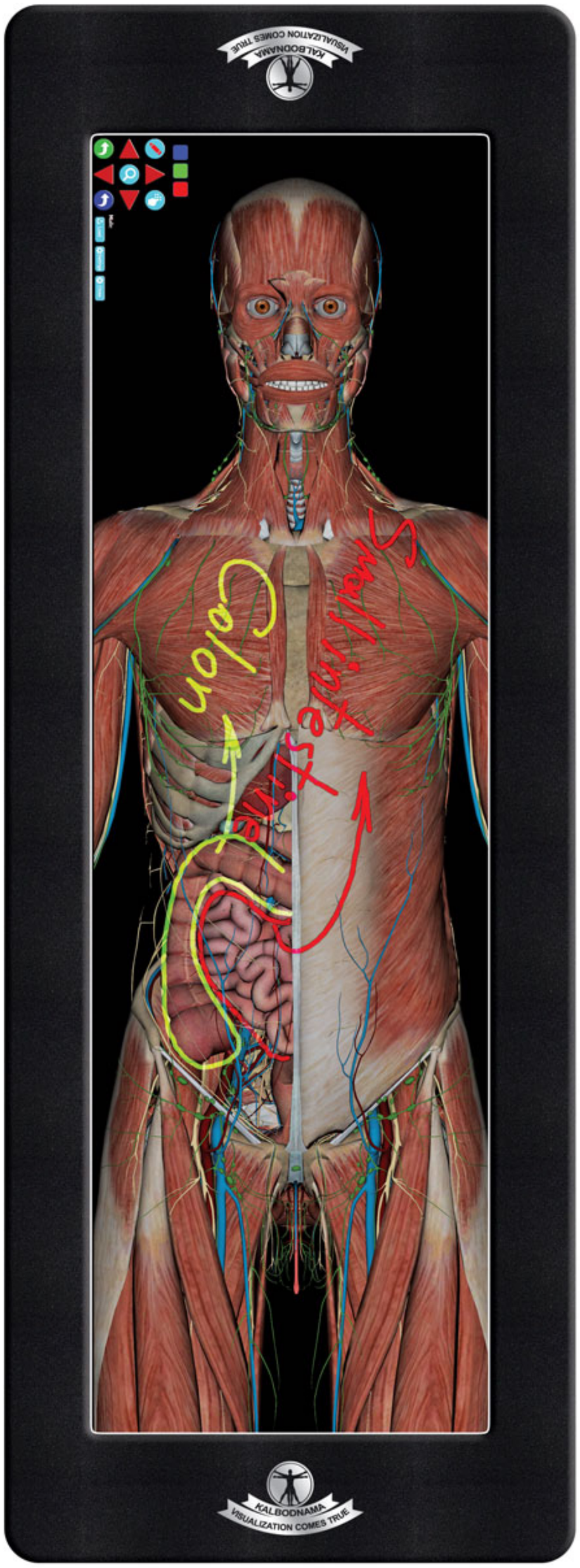
You can select each organ by just touching it!
Move from upper layers to the deep inside.



Systmic Selection & Removal Capability

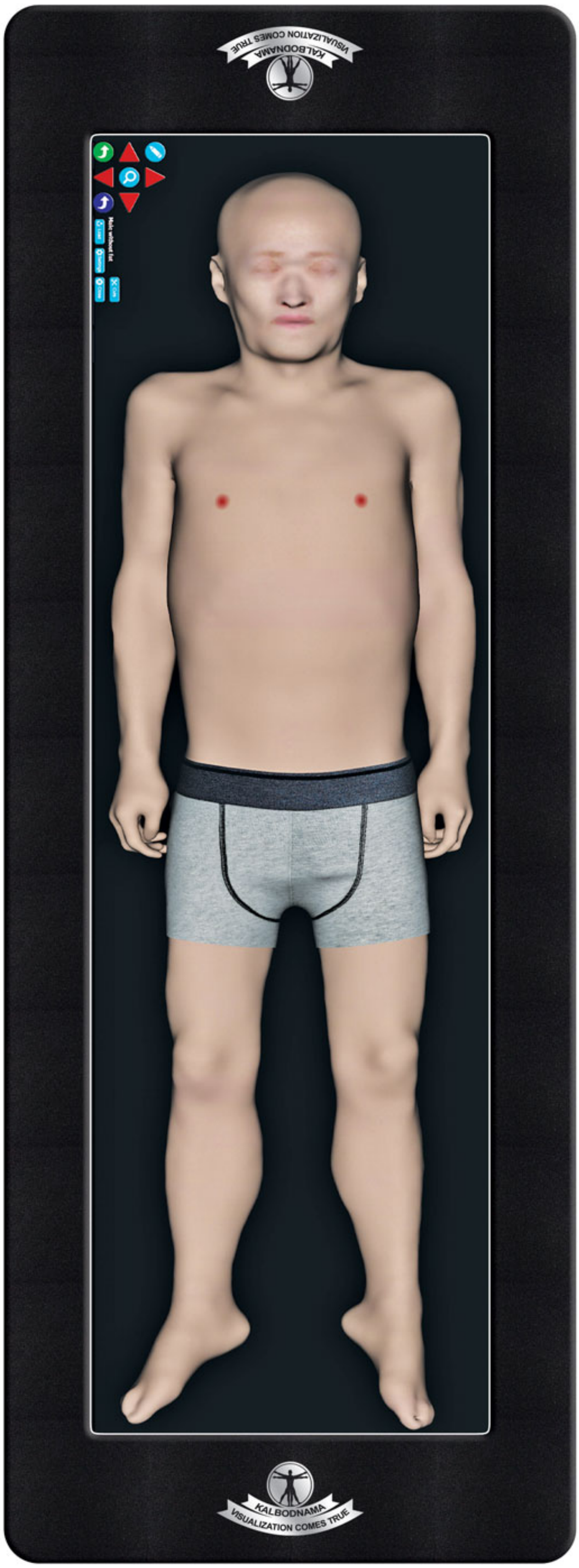
Ability of having any anatomy reference along with 3d models in order to obtain further information.

Possibility of scribbling on touch screen display.



2. DIGITAL CADAVER

- KALBODNAMA gives full 3D digital cadaver and can be fully controlled. Users can rotate the digital cadaver and cut any point in any directions.
- User can see through the body from, coronal, sagittal and transverse plane.
- You can move frontal, sagittal and transverse planes through the digital cadaver and inspect it.
- Possibility of studying whole digital cadaver in detail with real color using a real virtualized cadaver.
- Enables scribbling on touch screen display



CORONAL PLANE

- Possibility of studying whole digital cadaver in detail with real color using a real virtualized cadaver.

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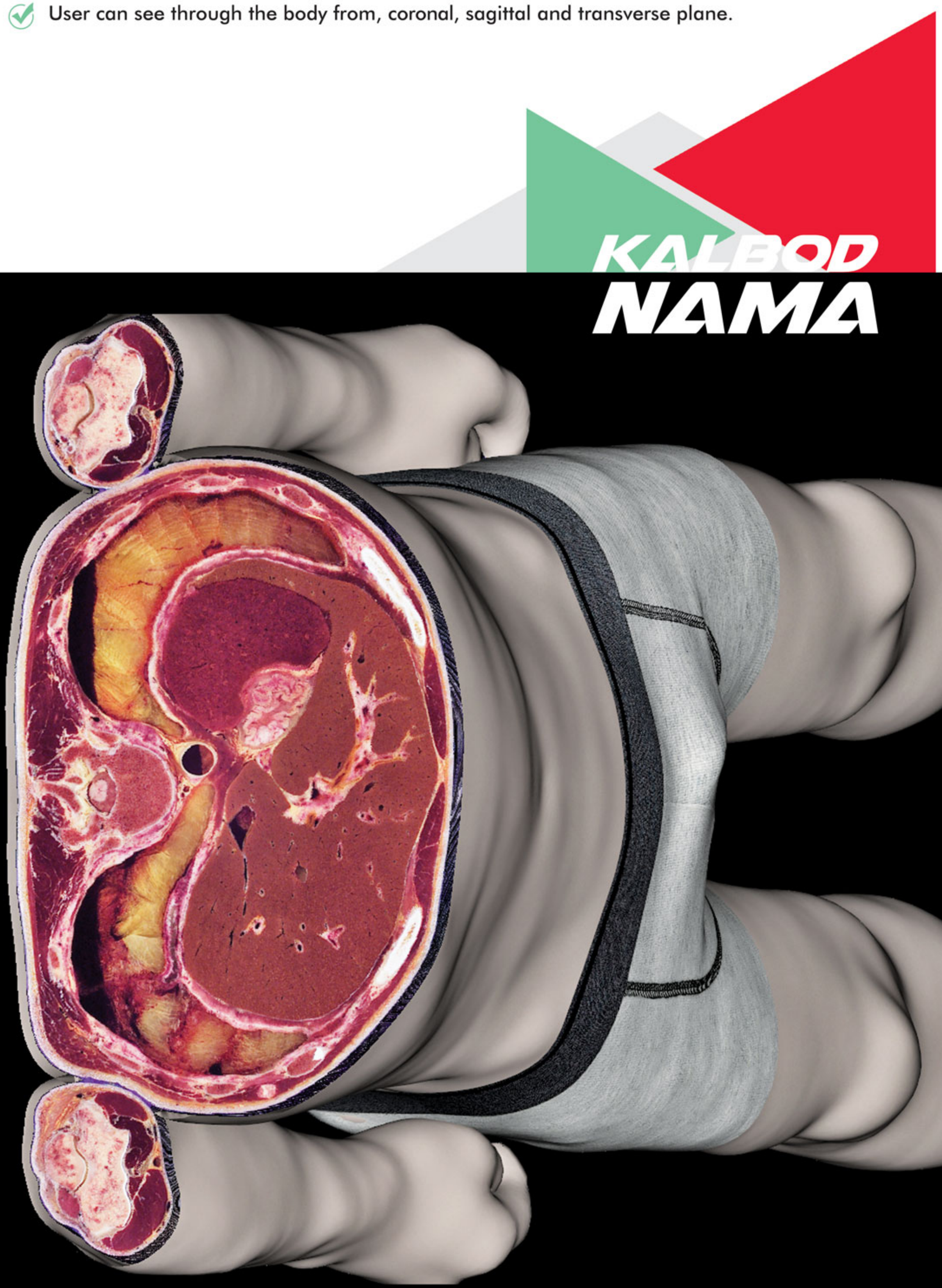
SAGITTAL PLANE

You can move coronal, sagittal and transverse planes through the digital cadaver and inspect it.

TRANSVERSE PLANE

User can see through the body from, coronal, sagittal and transverse plane.



COSTUM PLANE

- Users can rotate the digital cadaver and cut any point in any directions.

MULTIPLE PLANES

Apply multiple planes simultaneously

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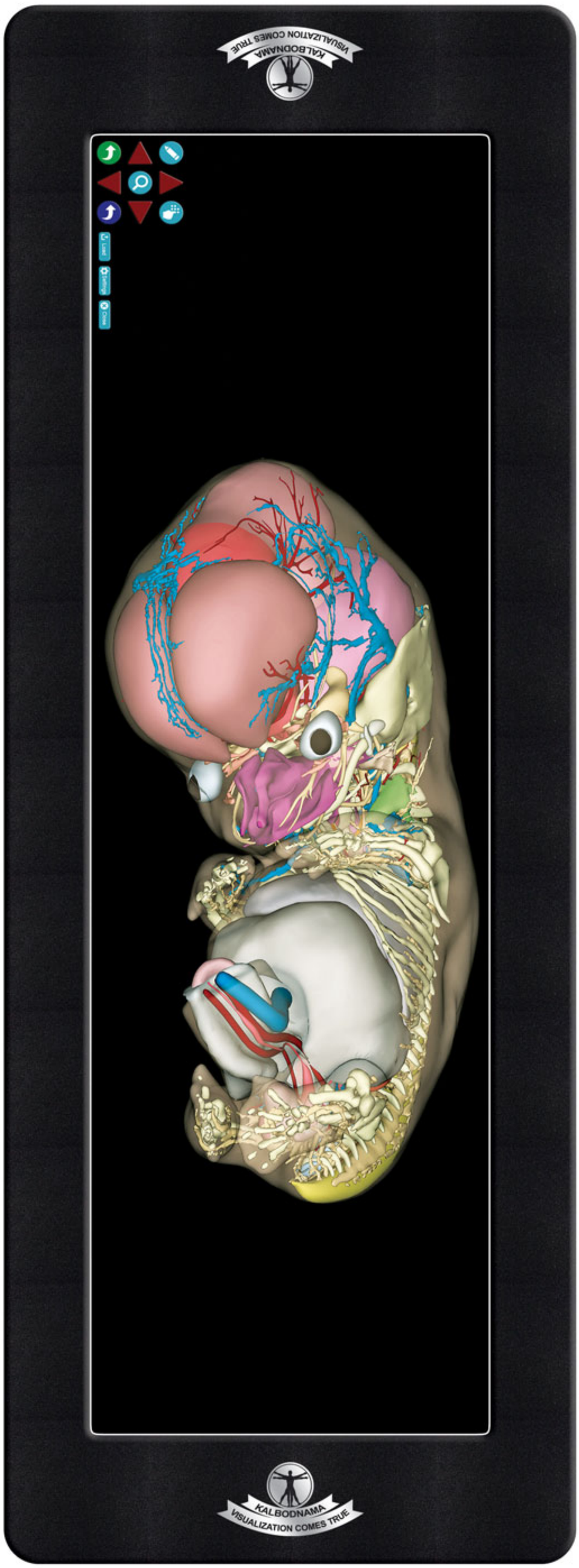
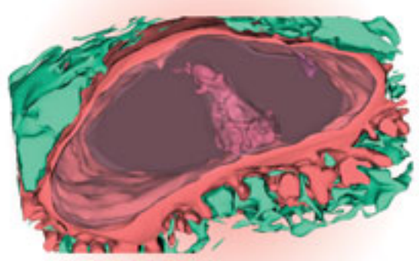
3. Fetus Anatomical Models

- Capability of whole body studying with precision and detail, in a 3D environment.
- Possibility of displaying a models ranging from 15-days fetus to 60-days fetus from CT-scan images of 18 aborted fetuses.
- KALBODNAMA offers the ability of transparenting categories and subcategories in order to see the inside or the back of the organ.
- Enabling the removing of each organ from the rest of the organs.
- Labeling each single part of the body.
- Possibility of scribbling on touch screen display.
- Ability of take preparing tests and quizzes.
- Ability of printing each organ using 3D printer

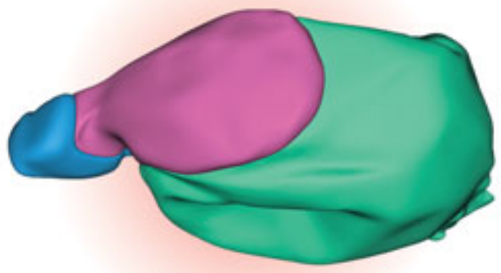


15 ~ 60 days

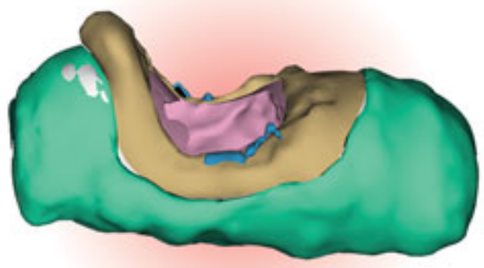
Possibility of displaying a models ranging from 15 days fetus to 60 days fetus



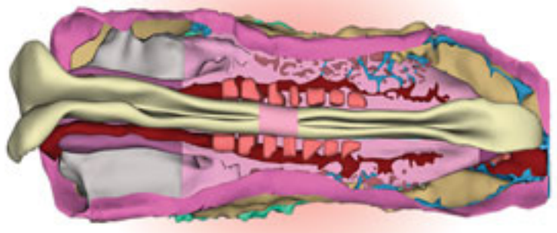
15 ~ 17 days



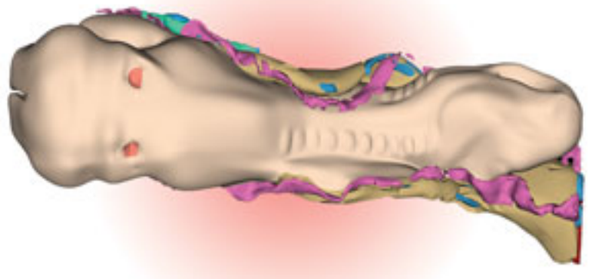
17 ~ 19 days



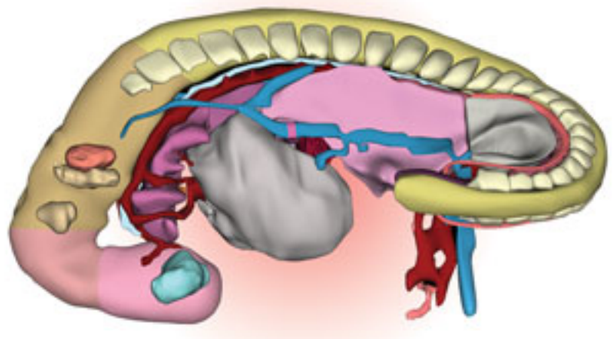
21 ~ 24 days



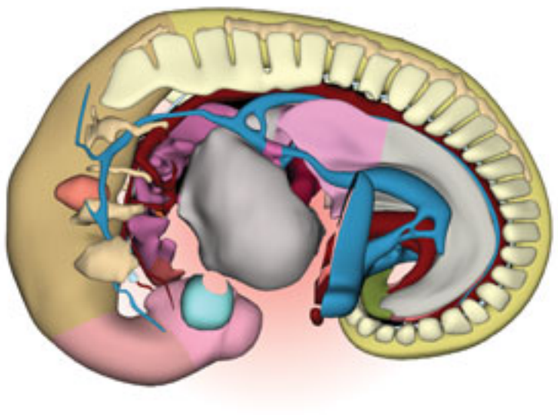
19 ~ 21 days



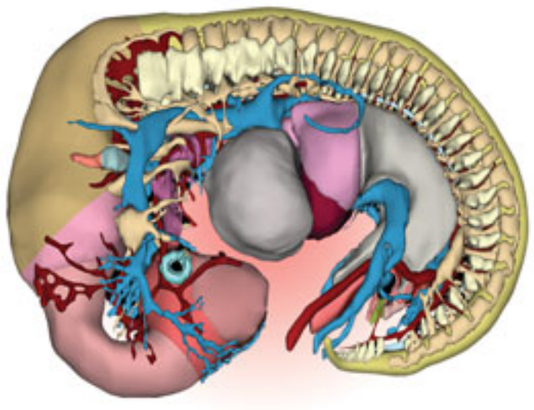
21 ~ 23 days



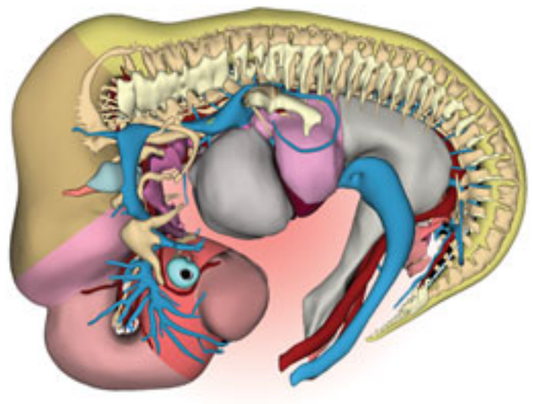
26 ~ 30 days



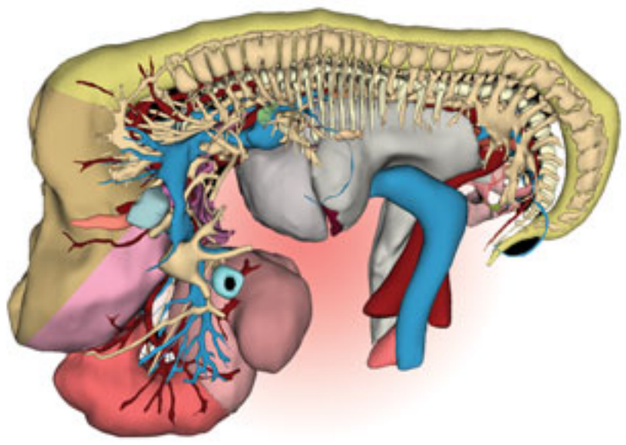
28 ~ 33 days



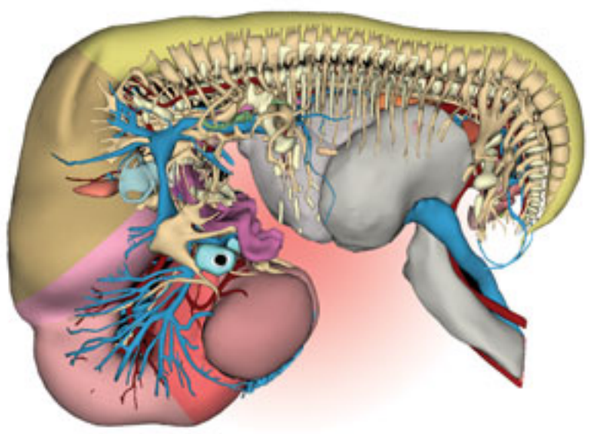
35 ~ 38 days



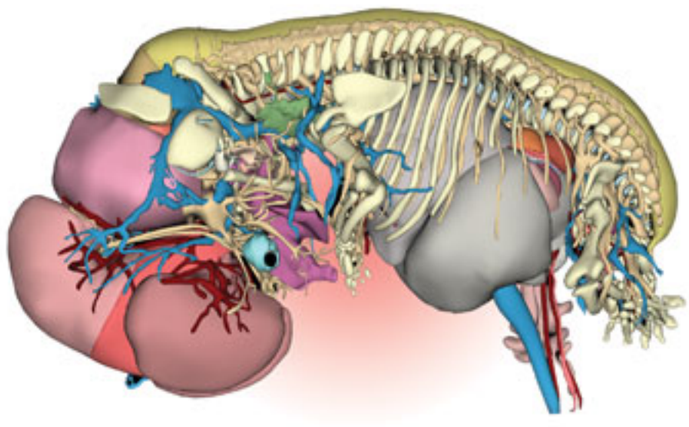
37 ~ 42 days



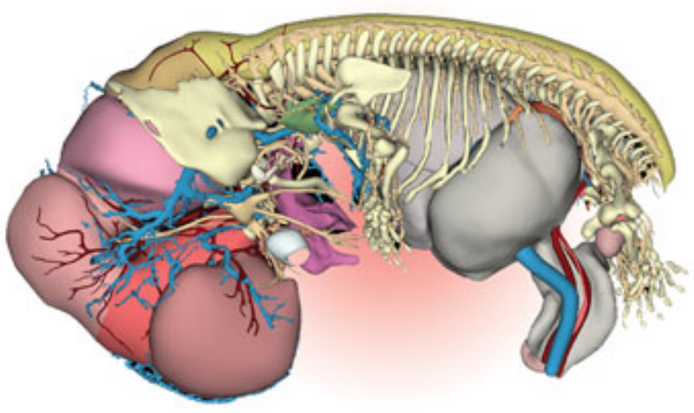
42 ~ 44 days



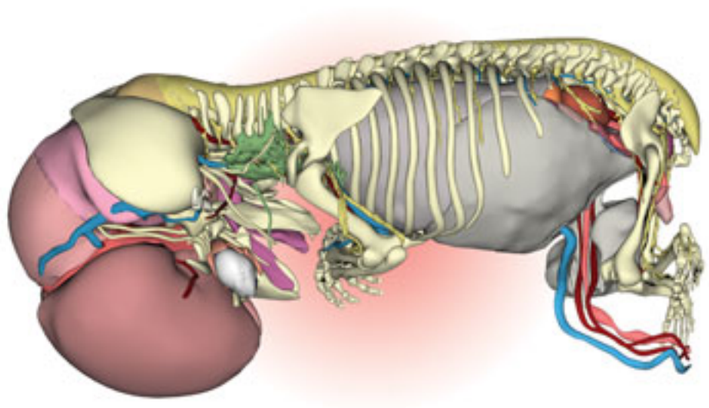
44 ~ 48 days



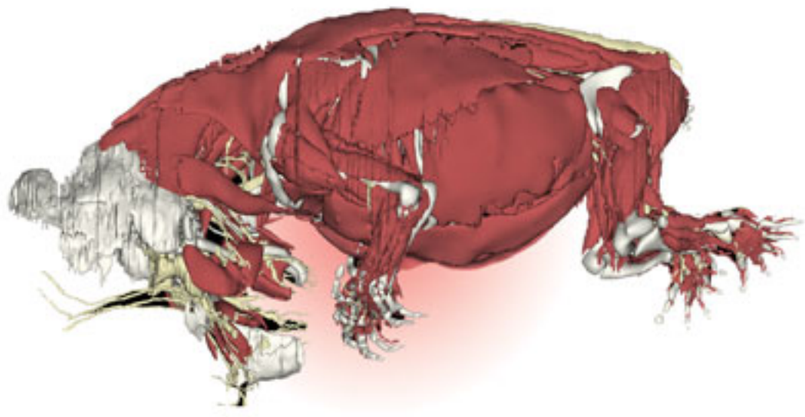
51 ~ 53 days



53 ~ 57 days

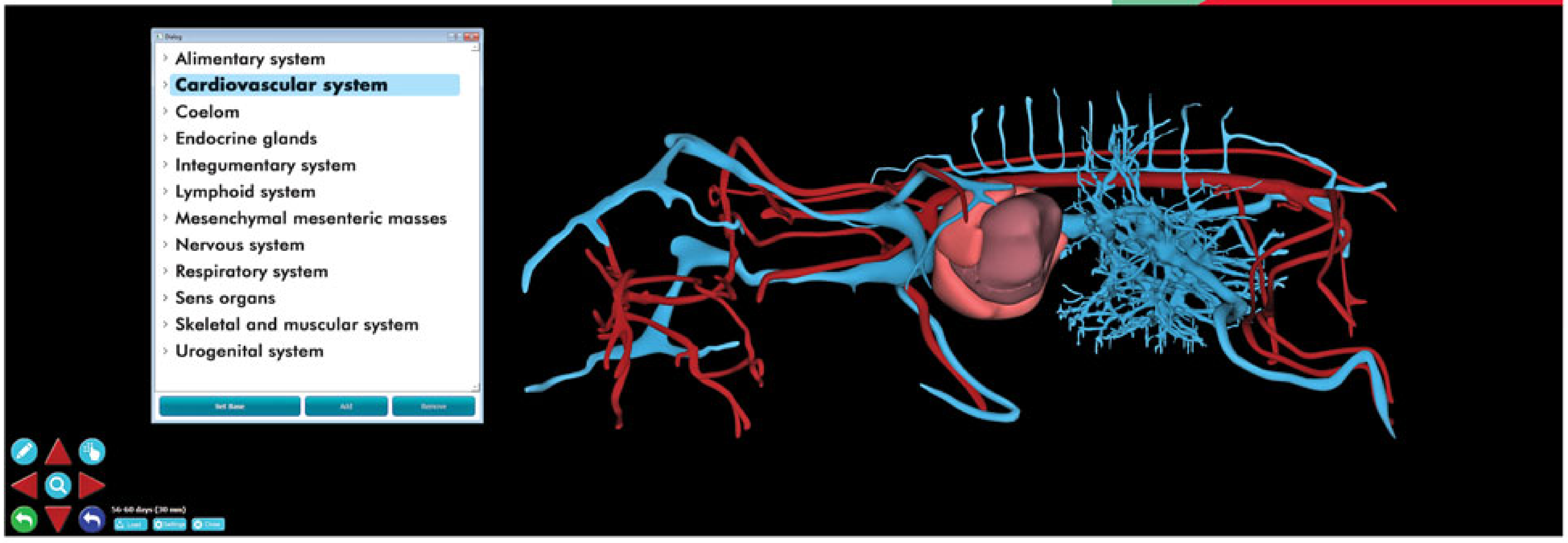


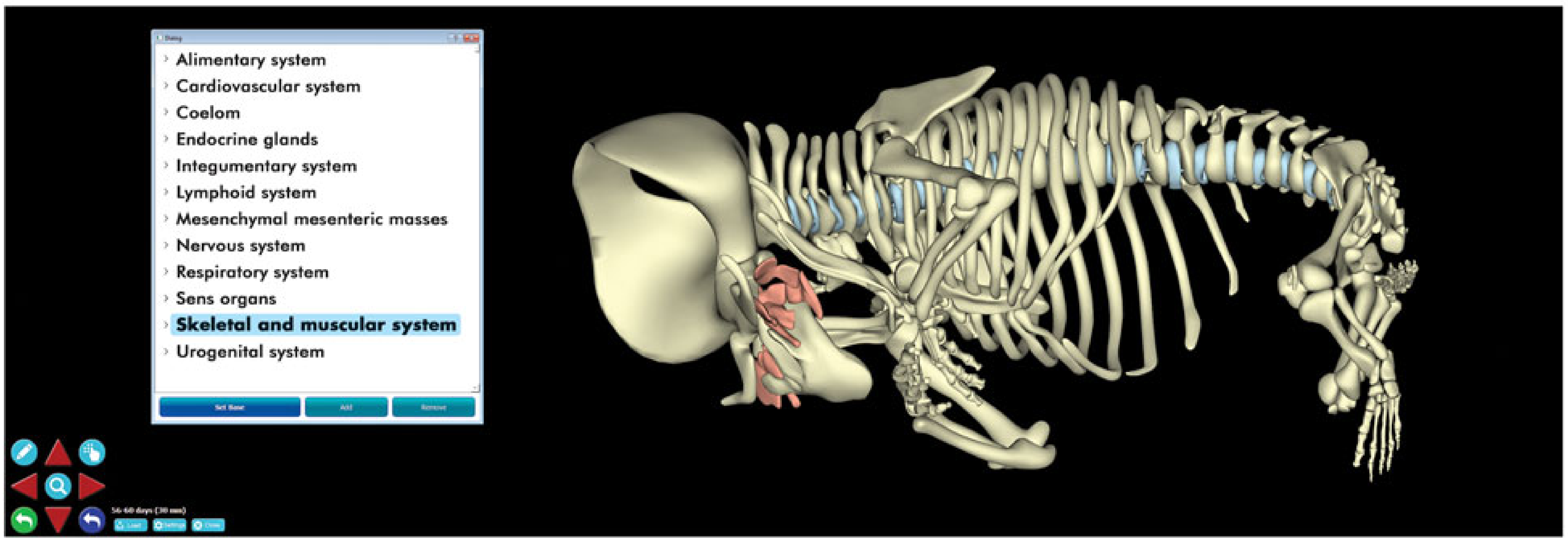
56 ~ 60 days

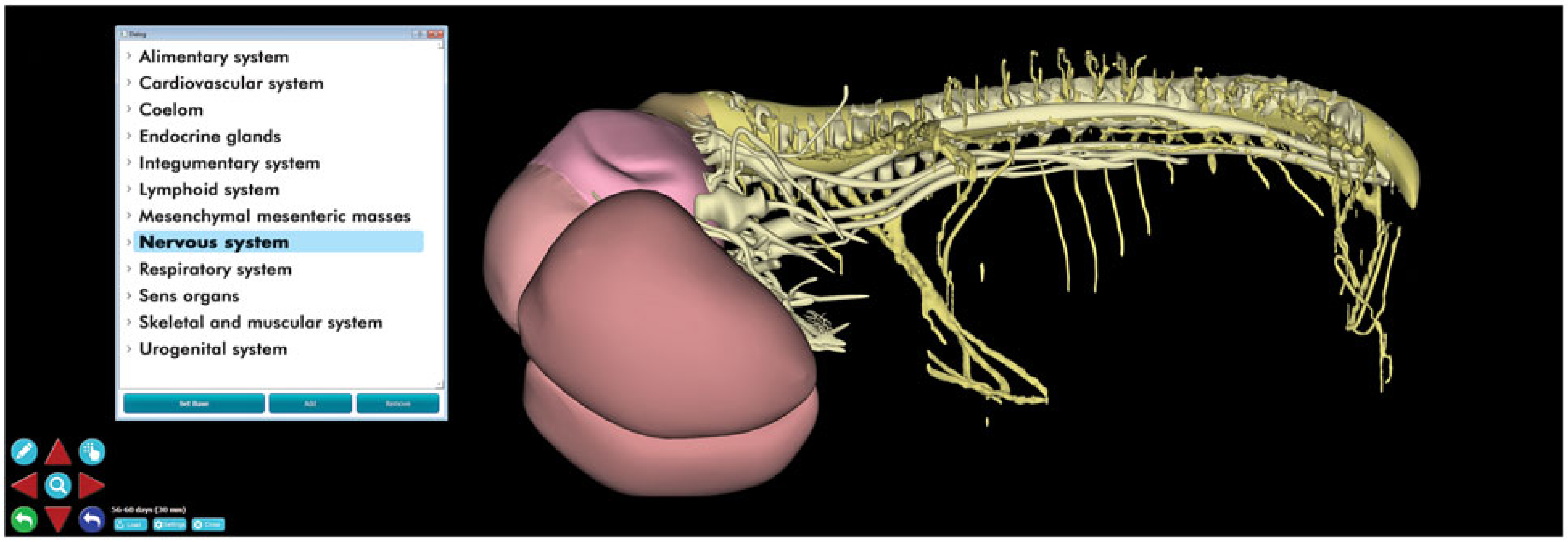


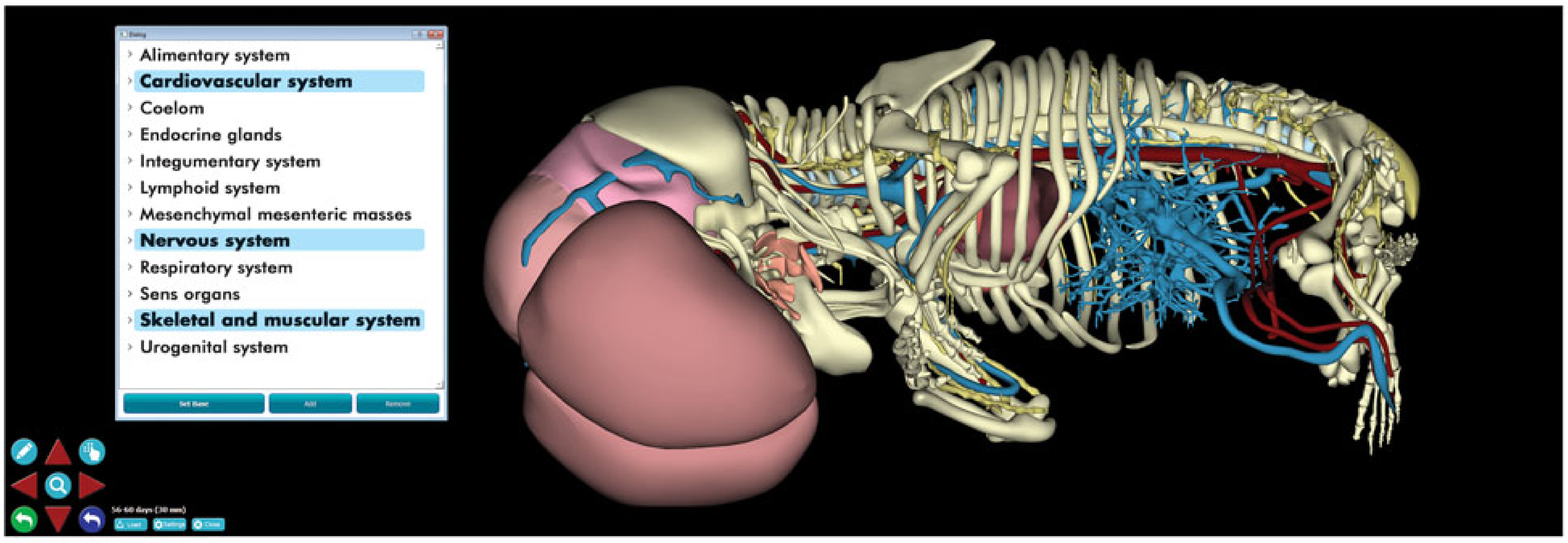
56 ~ 60 days (Muscular)

Systmic Selection & Removal Capability





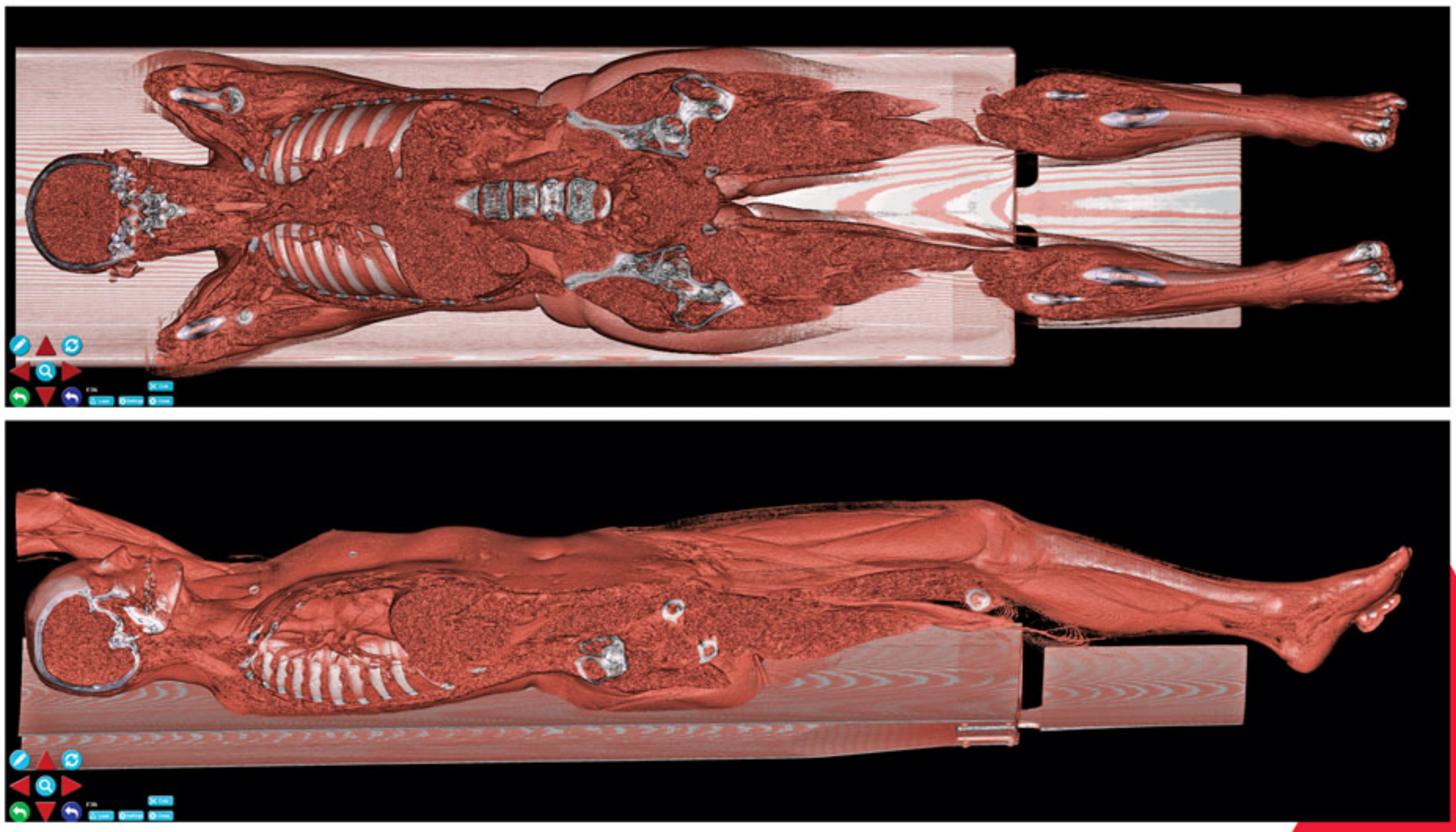




4. DICOM Viewer

- Displaying DICOM images (MRI, CT-scan) in 3D volumes.
- Viewing inside the 3D volume from frontal, sagittal and transverse planes.
- Support for multi-modality imaging including MRI and CT-scan
- Full-body DICOM images of a male and female cadavers.
- Using multiple transfer functions in order to distinguish different hardness.
- Capable of loading DICOM images by the users.
- Different effects on 3D volumes including X-ray.
- Scribbling on touch screen display.
- User can see through the body from, frontal, sagittal and transverse plane.
- You can move coronal, sagittal and transverse planes through the digital cadaver and inspect it.

You can move coronal, sagittal and transverse planes through the digital cadaver and inspect it.



Using multiple transfer functions in order to distinguish different hardness.

5. Sectional Anatomy

- Displaying sectional images of a cadaver along with their MRI and CT-scan images.
- Using an overlay window in order to indicate each organ.
- Labeling each organ in both cadaver's cross-sectional images and their DICOM images.
- Scribbling on touch screen display. By touching of any part of any image you can see the blue overlay mark that shows the region of the selected organ over cross-sectional, MRI and CT-scan images and the name of that organ will be shown at the bottom left.
- Three separate sectional cadaver including a male body, female pelvis and head and neck
- Access to reference books or any other book or pamphlet based on customer request

6. Osteology

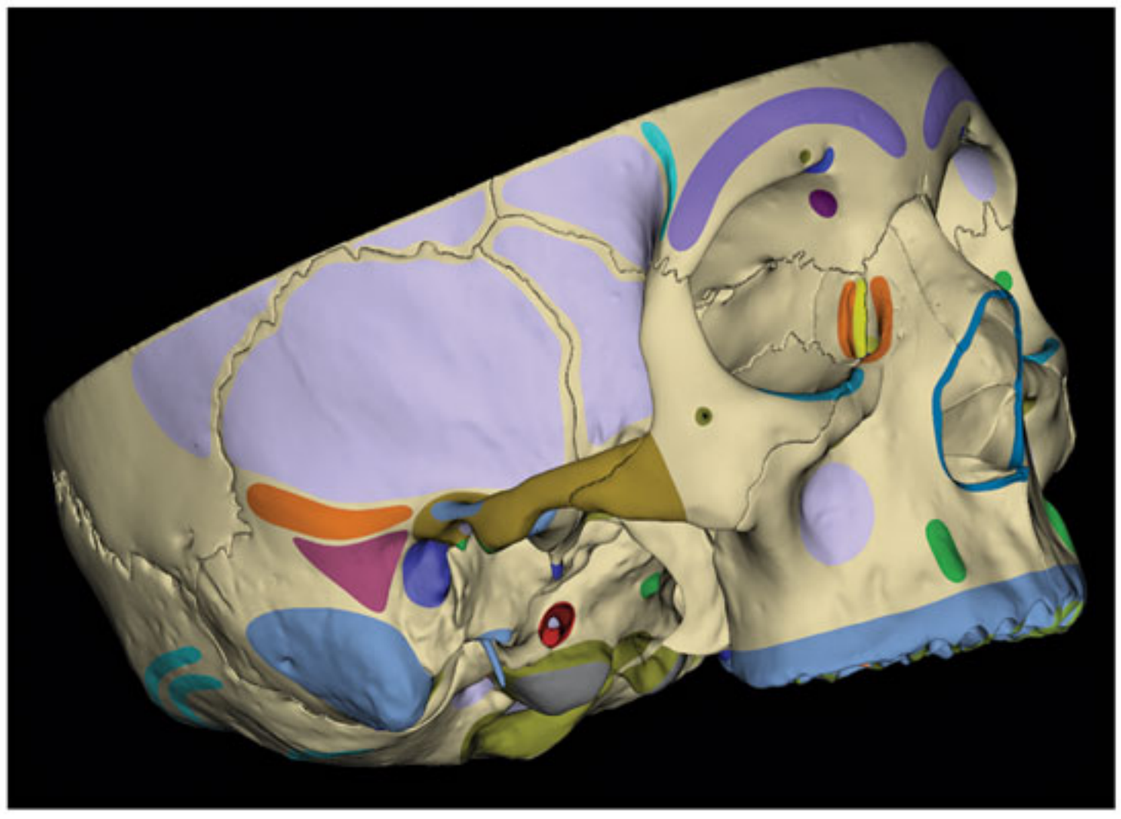
- Due to the importance of examining bones in anatomy education, a special section called Osteology has been provided to the esteemed users in the form of the latest update, which includes:

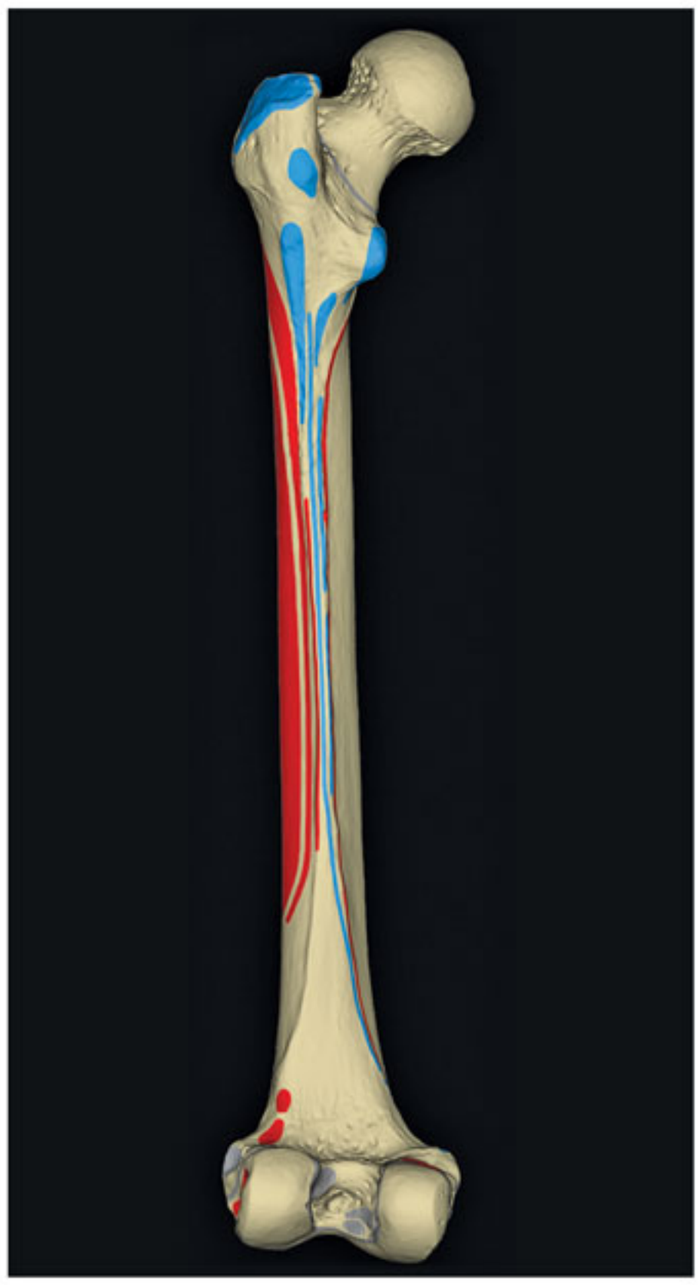
- Determine the adhesions of all the muscles on the natural bones taken from the textbook

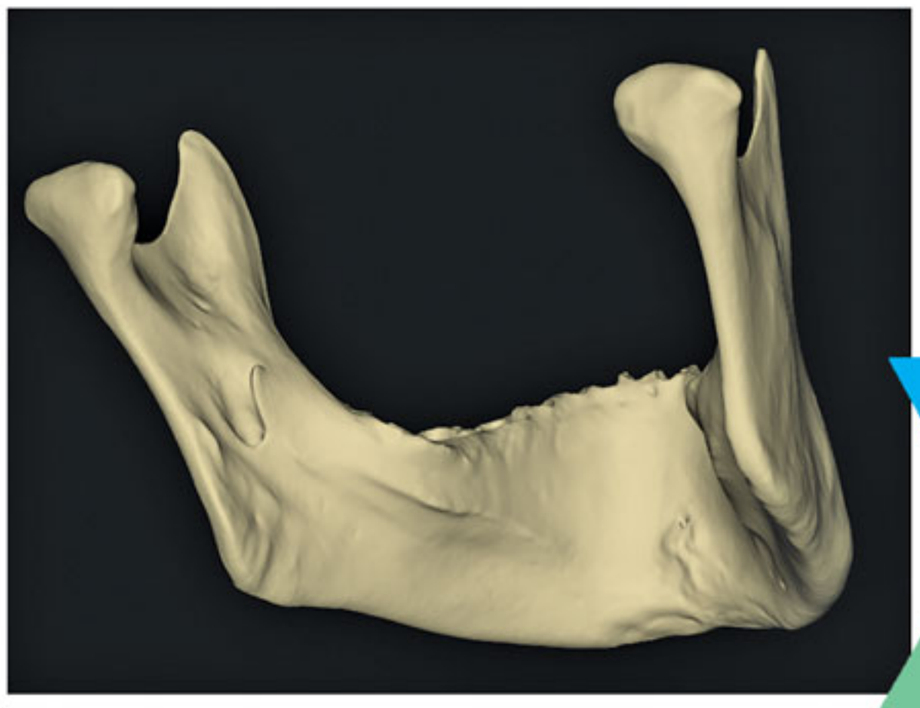
- Specify the ligaments of the joints

- Identify the landmarks of each bone with different colors for better learning

- A separate section consisting of bones without Landmak for testing or teaching according to the teacher's taste





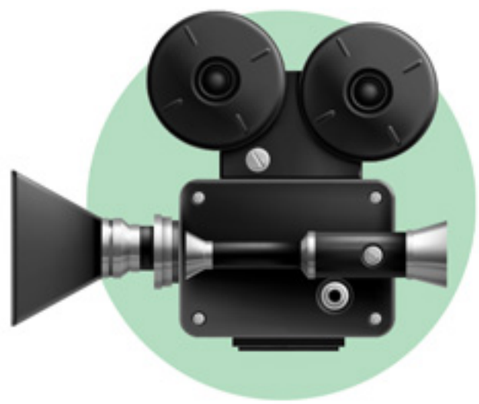


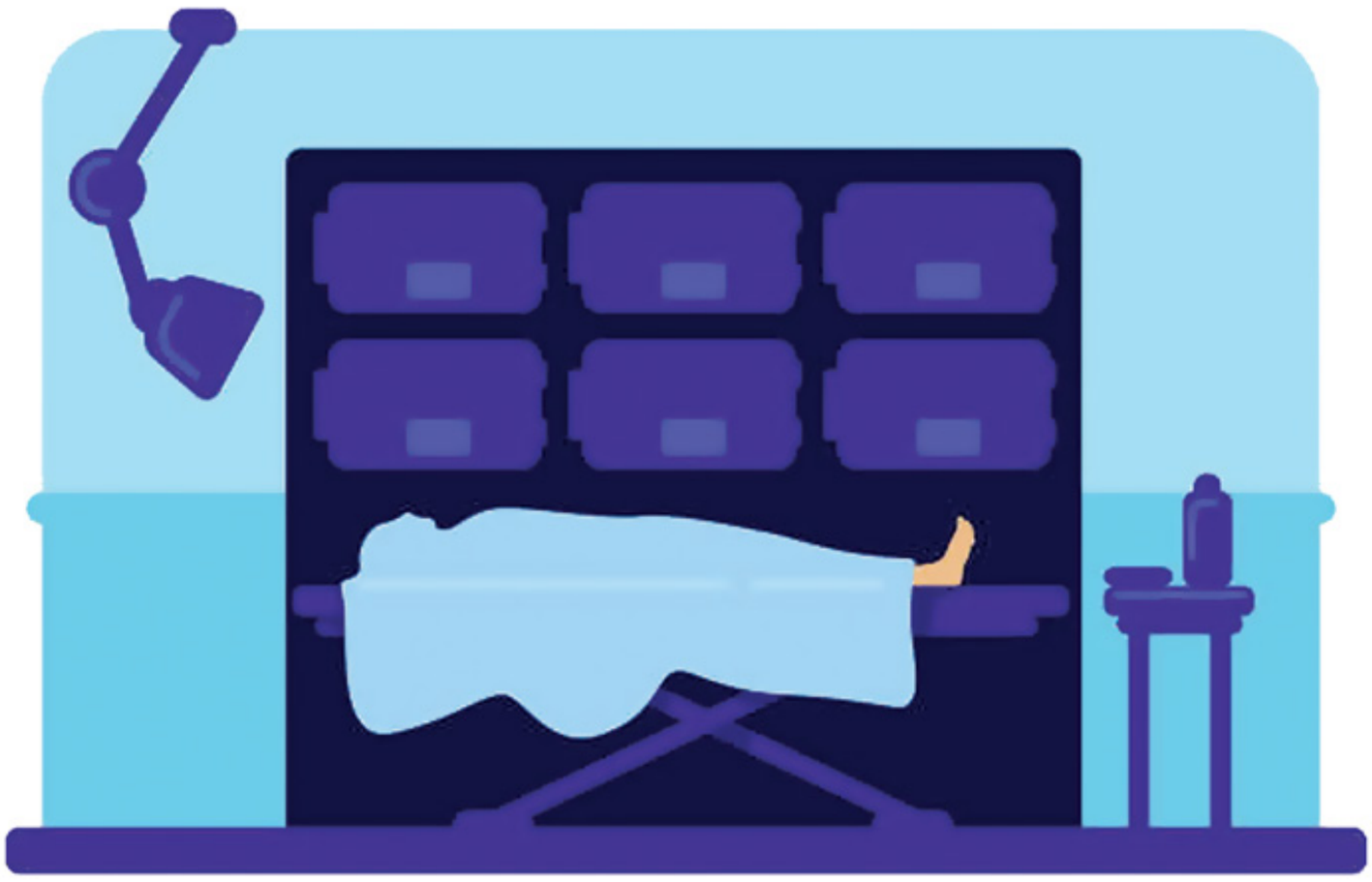
7. Videos:

- Due to the shortage of the corpse and the exorbitant maintenance costs, the production of specialized educational videos on the disk can compensate for this shortcoming to some extent. Dedicated to the corpse.

- Kalbodnama has tens of hours of dedicated video and a complete autopsy video. Three cameras have been filmed from three different angles with special techniques from the teaching of the best anatomy professors in full HD quality, and have been prepared with motion graphics for a better understanding of the content.

- All videos are categorized with easy and fast access to the subject under review.



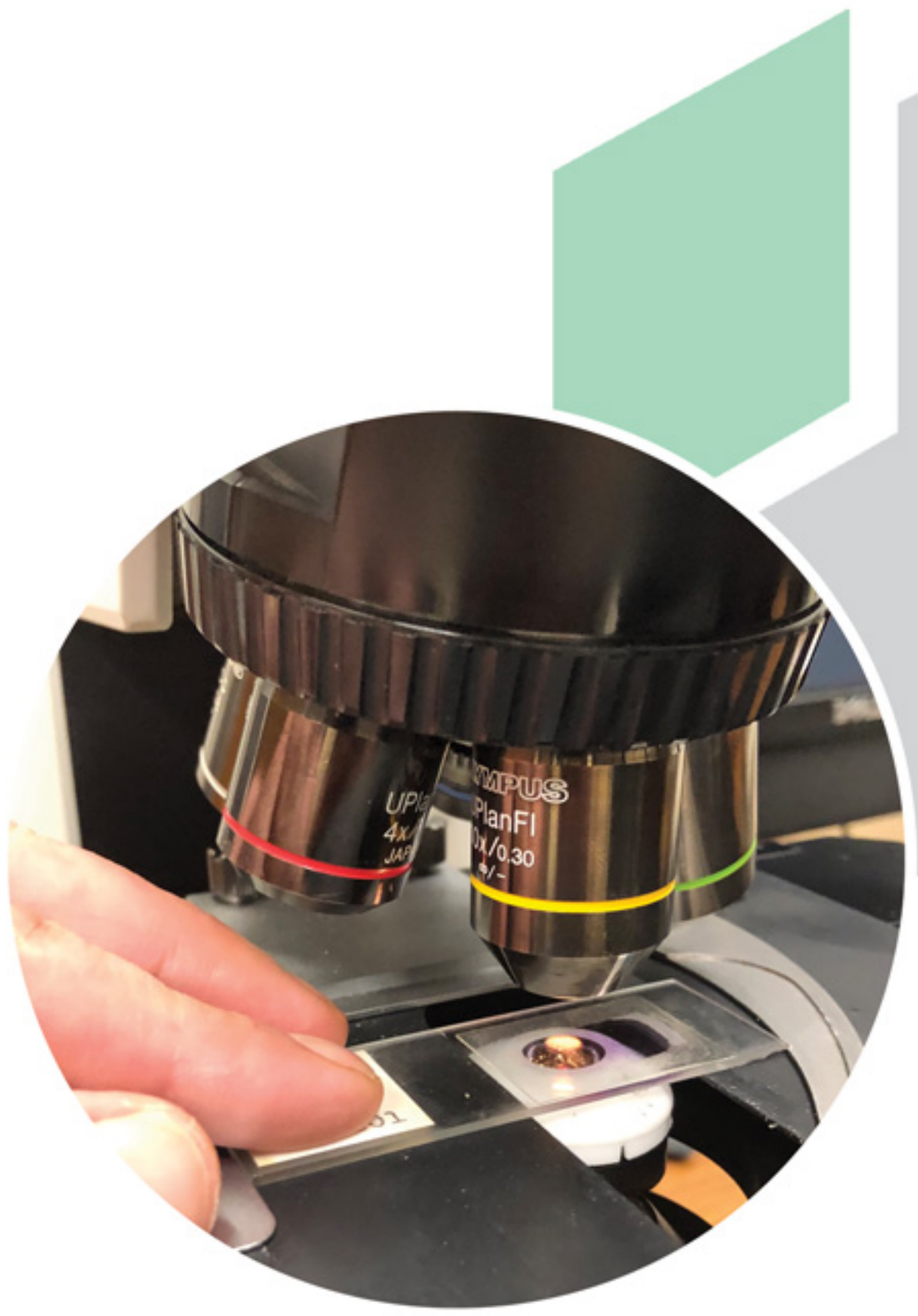


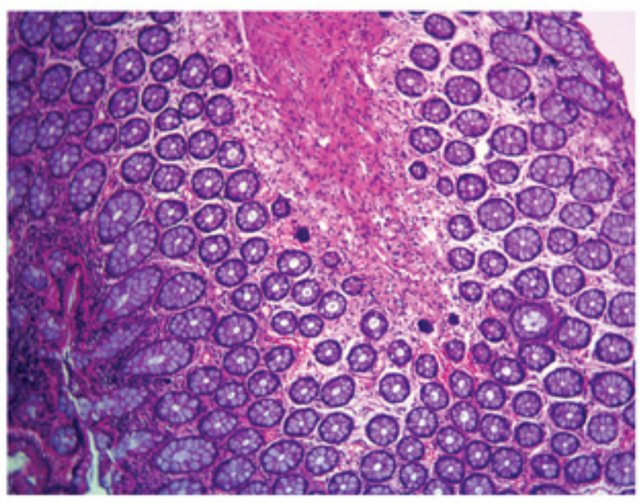
KALBODNAMA

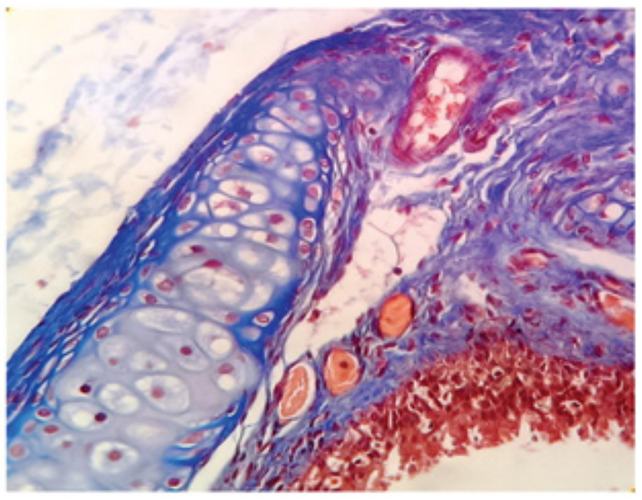
8. Histology:

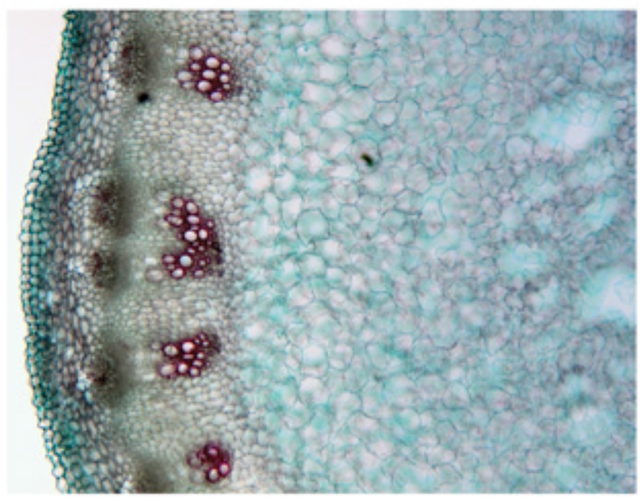
- Learning the structural details of different organs is essential to understanding their physiological activity and pathological changes, so histology not only can not be considered as an independent science, but it is better related to other branches of medical science and as one of the main foundations of basic medical sciences.

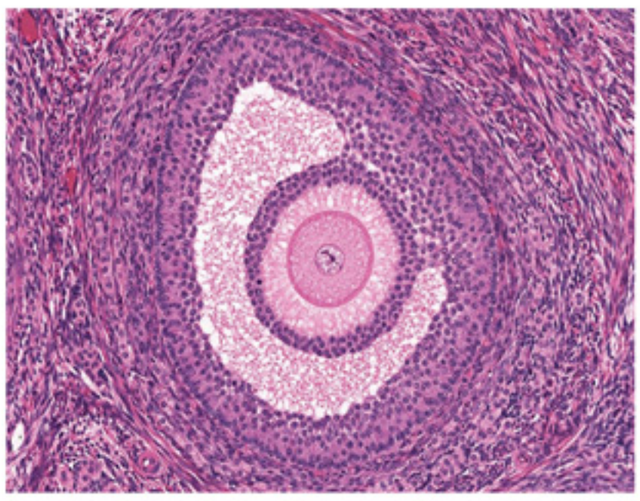
- To achieve this goal, our company has added a new feature to Kalbodnama by combining histology and anatomy, so that in all sections of the device including three-dimensional models and 2D sections users will have access to their histological explanations in both text and images.

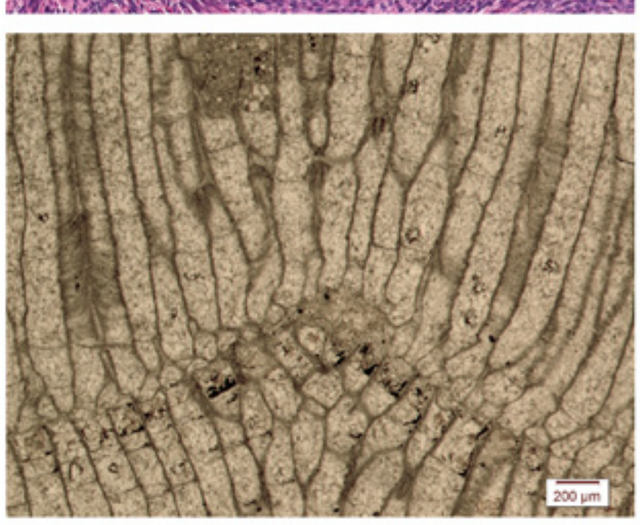


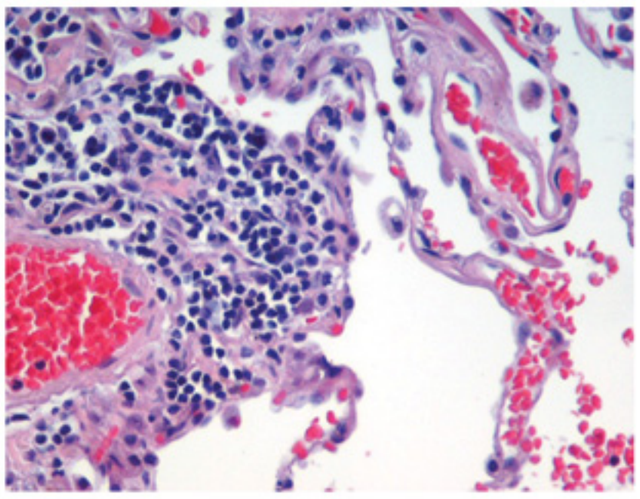






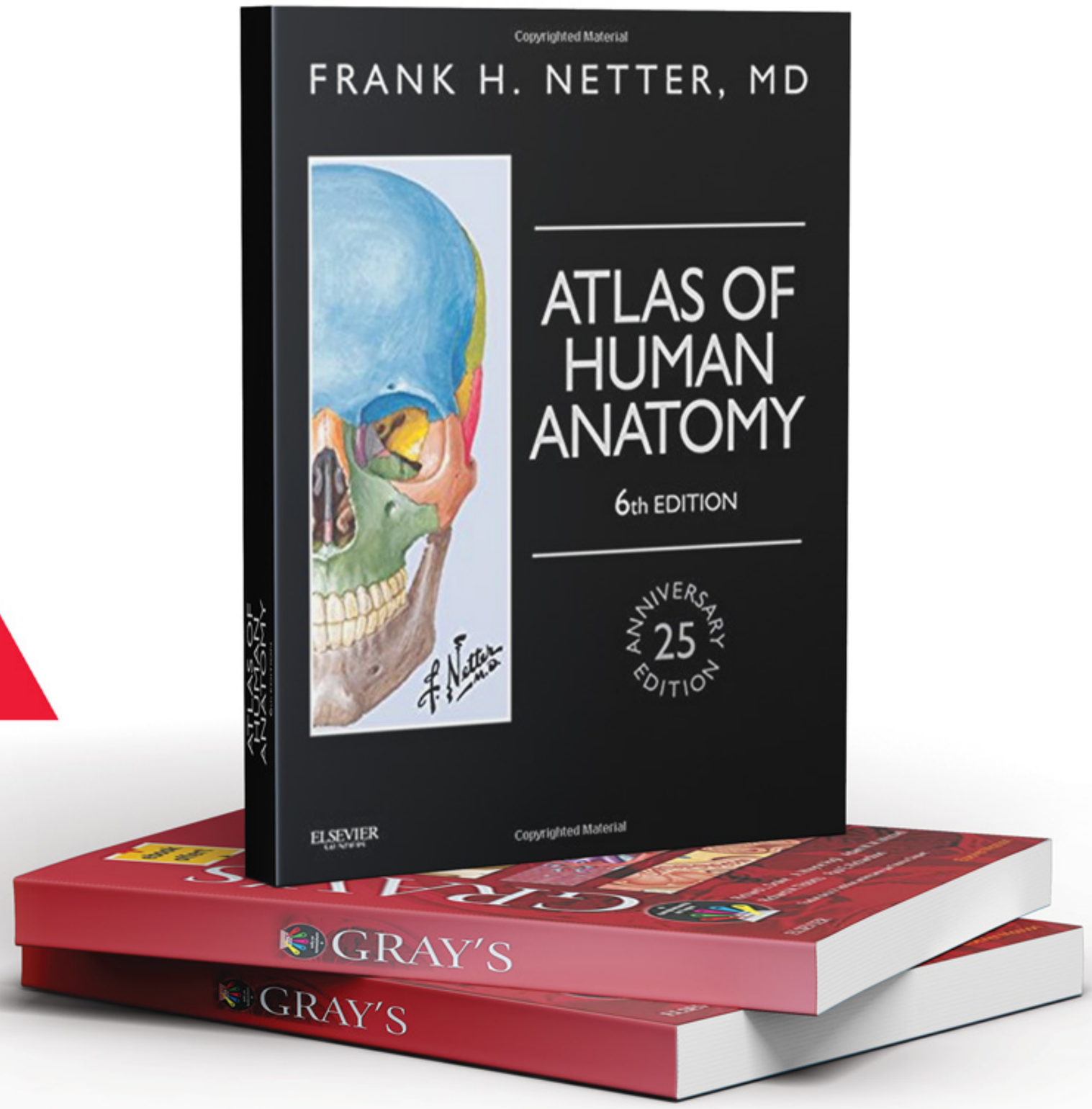






Reference E-books:

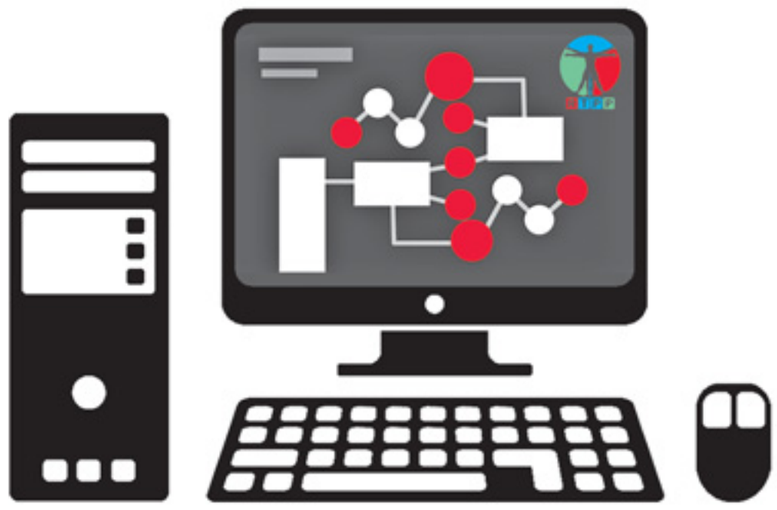
- The user can have the latest edition of the digital version of anatomy reference books available in any part of the device, whether atlas, embryo, or cross-sectional anatomy, and so that the device is fully intelligent page related to the organ that the user is in three The next check will call.
- Any book can be included in this section at the request of respected professors.
- In this section, the user can take notes on the pages with the virtual font feature, the color and size of the font can be changed. Also, the user can delete all his/her notes from the page during the lesson and add the same note again on the page at any time.



Adobe Connect:

- You can use the powerful Adobe Connect software used in most medical education centers to teach anatomy online and share the entire screen of Kalbodnama with students.

- A new unique feature is that the student can use Adobe Connect software to control it remotely without the physical presence of the device and have access to all menus and options of the device and participate in the class or meeting and exchange information To.



Warranty & After-Sales Service

- Virtual dissection table machine has one year warranty and 10 years after-sales service.

- Since the official start of the company in January 2014 until today, Kalbodnama has been installed and set up in more than 50 educational centers, and esteemed professors and students use it in the best way in face-to-face and virtual anatomy training.

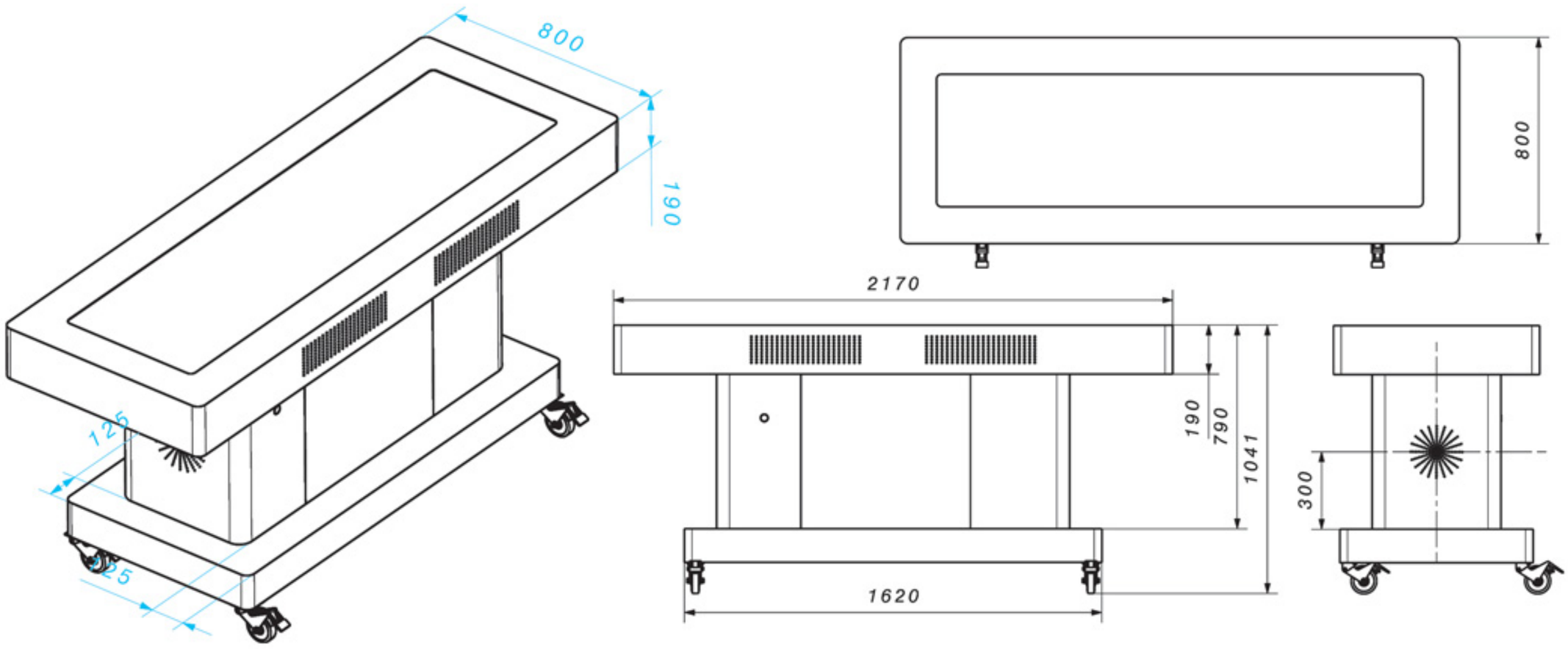
- It is our pride that all devices are used daily without any technical problems with all available capacities.

In the meantime, it is necessary to mention, in appreciation of the trust to date, 14 updates provided including:

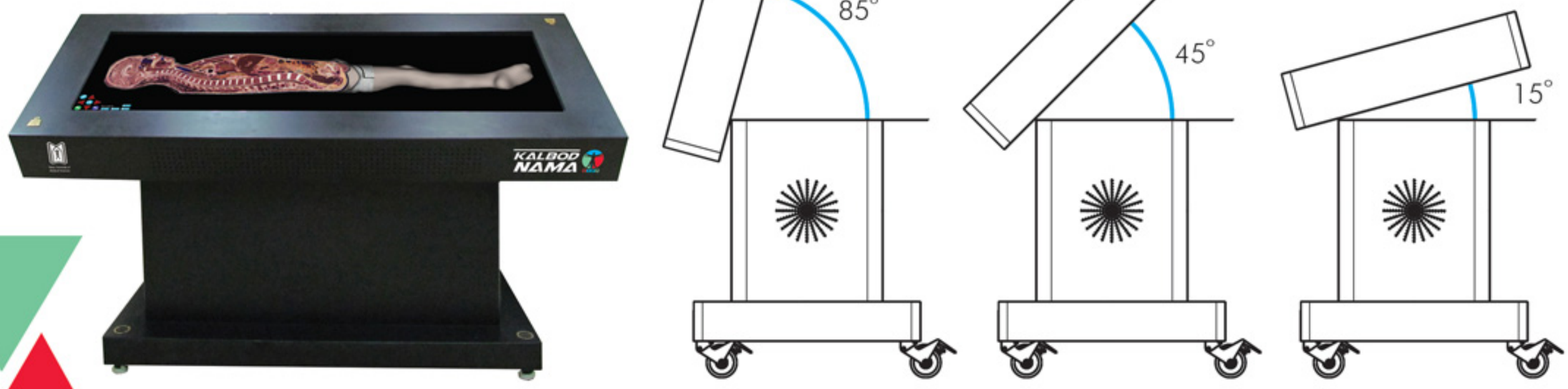
1.27: Add anatomy reference books
1.28: Addition of Ms. Pelvis area and head and neck with higher accuracy
1.29: Adobe Connect connectivity added
1.30: Muscle adhesions on real bones
1.31: Added bone landmarks
1.32: Added bone training videos
1.33: Added unmarked bones for testing
1.34: Improve program performance
1.35: Fundamental changes in the virtual pen system and its integration
1.36: Improve the performance of virtual pens and blackboards as suggested by users
1.37: Increase the details of virtual modeling
1.38: Dealing with more details of the nervous system
1.39: Added histology
1.40: Addition of professional videos of autopsy prepared by experienced professors of Tabriz University of Medical Sciences. It is worth mentioning that all high quality images with three full HD cameras have been prepared from different angles.

KALBOD NAMA

KALBODNAMA TABLE TECHNICAL SPECIFICATION



DISPLAY TILT CAPABILITY

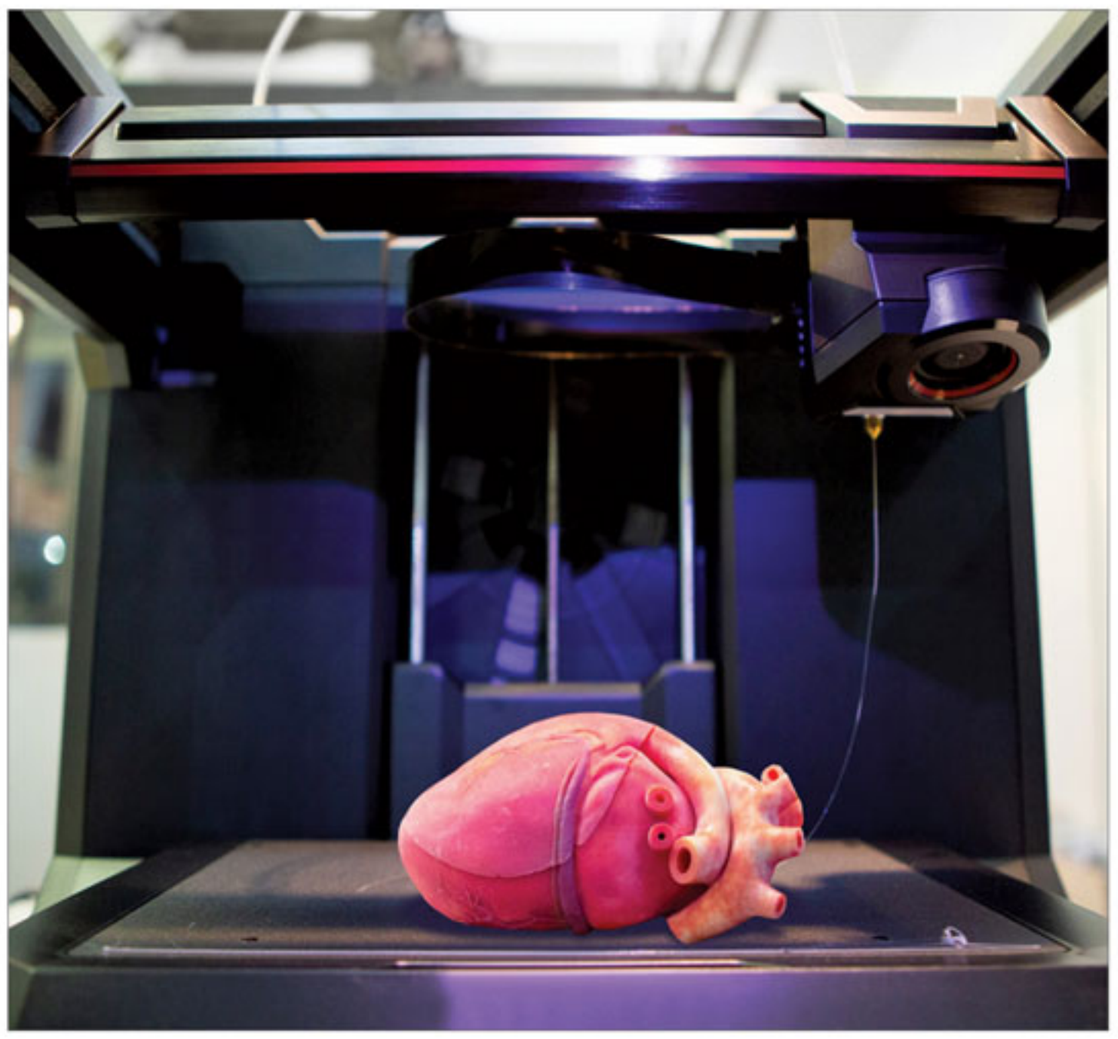


DIMENSION	Length: 217 cm / Height: 104 cm / Width: 80 cm
WIEGTH	112 kg
DISPLAY SIZE	Two 43 inch display or one 78 inch (32:9 ultra wide)
SCREEN DIMENSION	182 cm x 56 cm
SCREEN RESOLUTION	1920 x 1080 (full HD)
POWER	220 Volts AC , 60 Hz , 10 A (UPS required)
POWER CONSUMPTION	900 Watts
OPERATING TEMPRATURE	-10 ° C up to 40 ° C
HUMIDITY	10 to 80 %
NETWORK	RJ45
PROJECTION OUTPUT	HDMI & VGA

Video projection capblity

Contections

3D Printring Capibility



KALBOD NAMA

Virtual Dissection Table

KALBODNAMA:

- Makes the viewing of all details possible while they are difficult to observe in cadavers.
- Has no cadaver odor.
- Gives full 3D anatomy so it can be fully controlled. Users can rotate the virtual body and cut any part in any dimensions.
- Since the information preserves the real life color and shape, the KALBODNAMA is more effective than embalmed cadavers.
- Has full classification for categories and subcategories.
- Access reference books anywhere in the app.
- Virtual Bone Hall.
- Remote training using adobe connect.
- Dedicated dissection videos.

Tabriz University of Medical Sciences

Rayan Teb Pishgame Parmis

(LCC) Reg Number: 45664