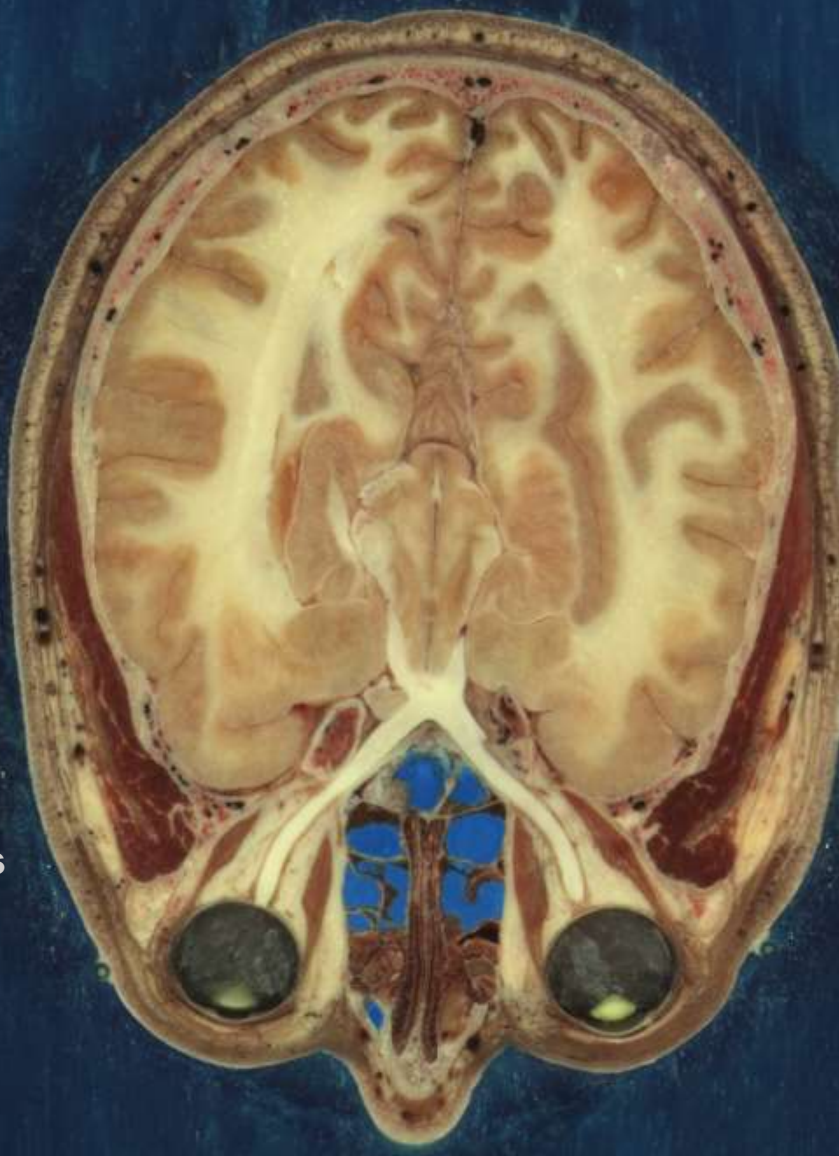
Tabriz University of Medical Sciences

RTPP

Virtual dissection table

Kalbodnama

Visualization Comes True



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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 and environment.**

KALBODNAMA:

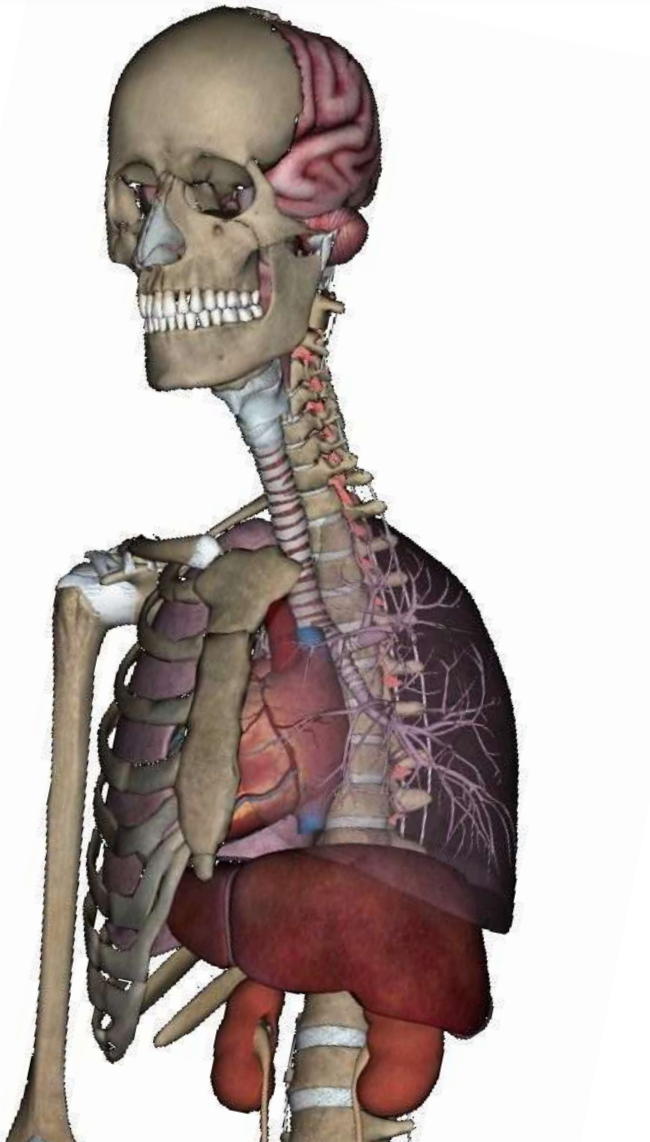
- makes the viewing of all details possible while they are difficult to observe in cadavers.
- has no cadaver odor.
- gives full 3D anatomy so it can be fully controlled. Users can rotate the virtual body and cut any part in any dimensions.
- since the information preserves the real life color and shape, the KALBODNAMA is more effective than embalmed cadavers.
- has full classification for categories and subcategories.

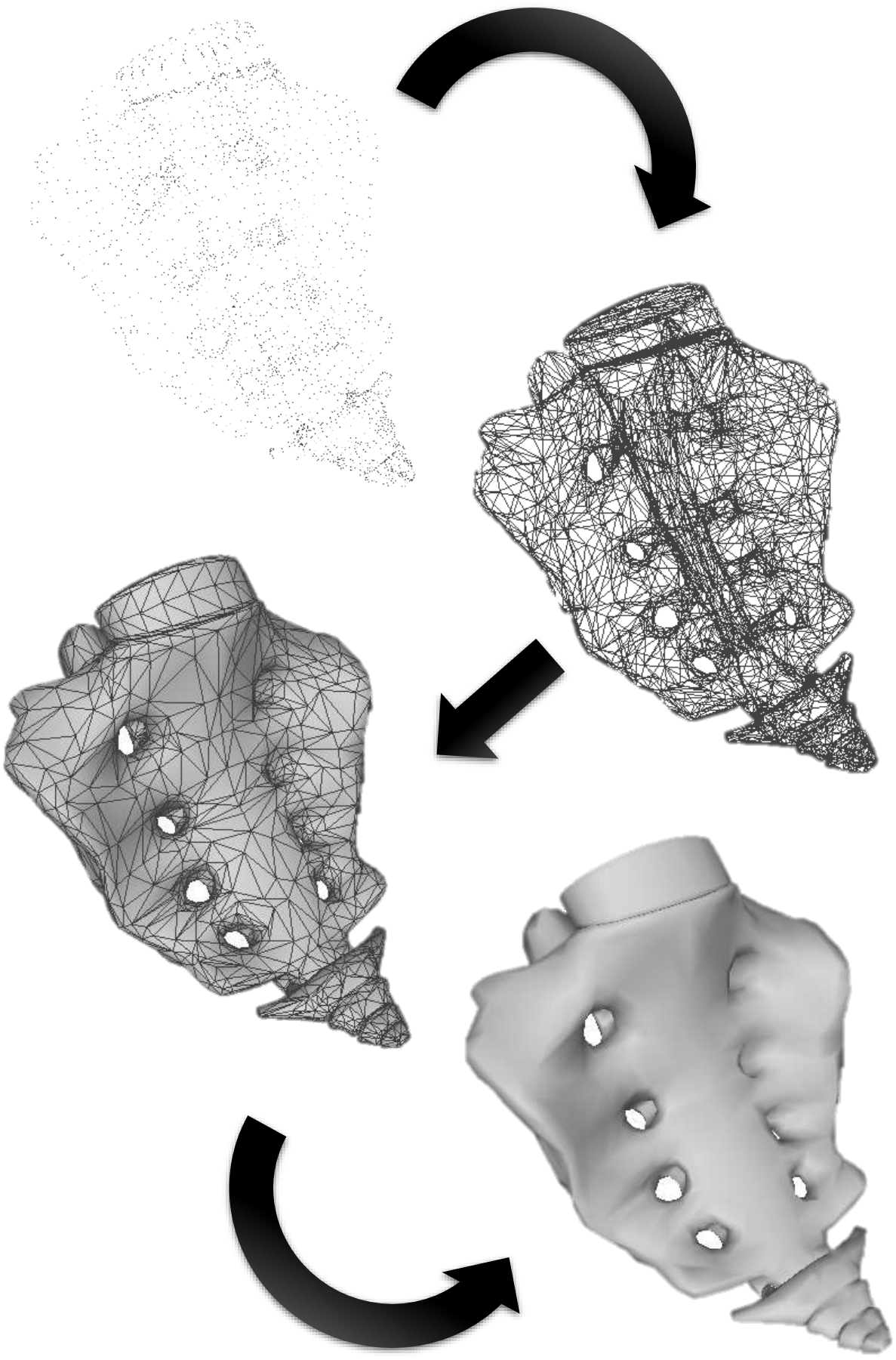
Features:

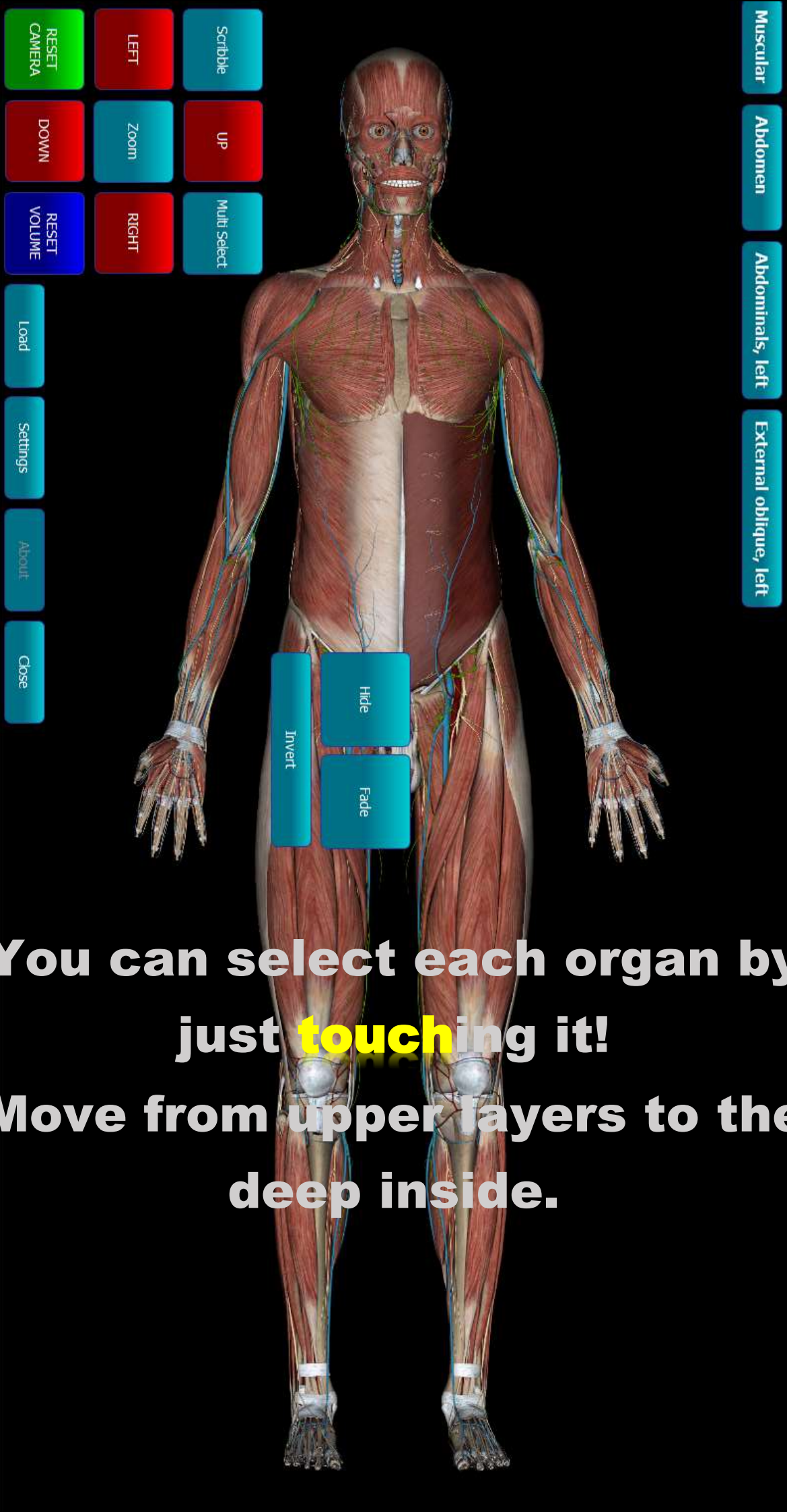
The table has 5 distinct educational modes:

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.







You can select each organ by just touching it!

Move from upper layers to the deep inside.

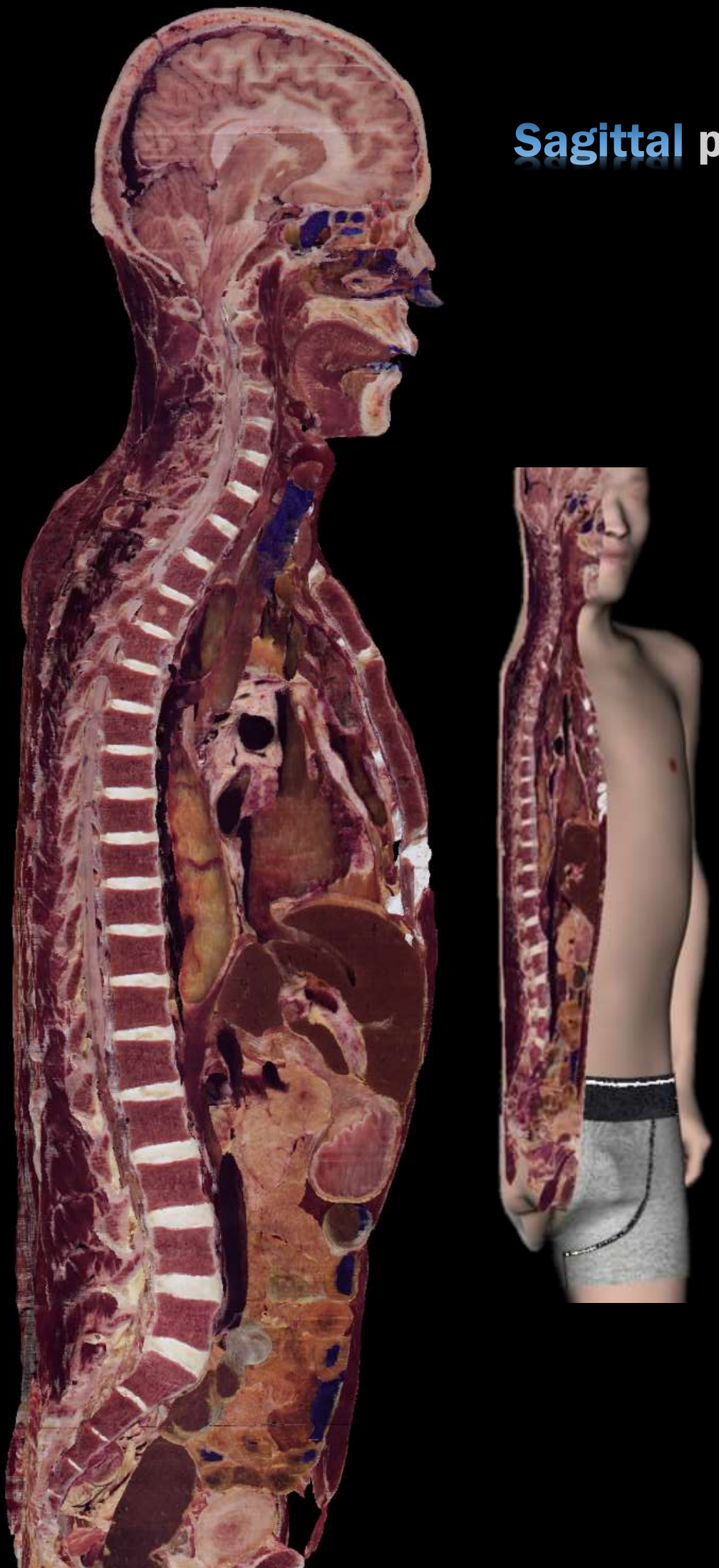
Scribble
Multi Select
UP
Zoom
RIGHT
LEFT
RESET CAMERA
DOWN
RESET VOLUME
Load
Settings
About
Close
Set Base
Add
Remove
Circulatory
Heart
Pulmonary circulation
Systematic circulation
Arteries
Veins
Digestive
Accessory organs
Alimentary canal (Gastrointestinal tract)
Lesser omentum (small omentum, gastrohepatic omentum)
Ligament of Treitz (suspensory muscle of the doudenum)
Peritoneum
Endocrine
Lymphatic
Muscular
Nervous
Central
Peripheral
Reproductive
Respiratory
Lower respiratory system
Upper respiratory system
Select organs from the list and start the journey!

2.Digital cadaver

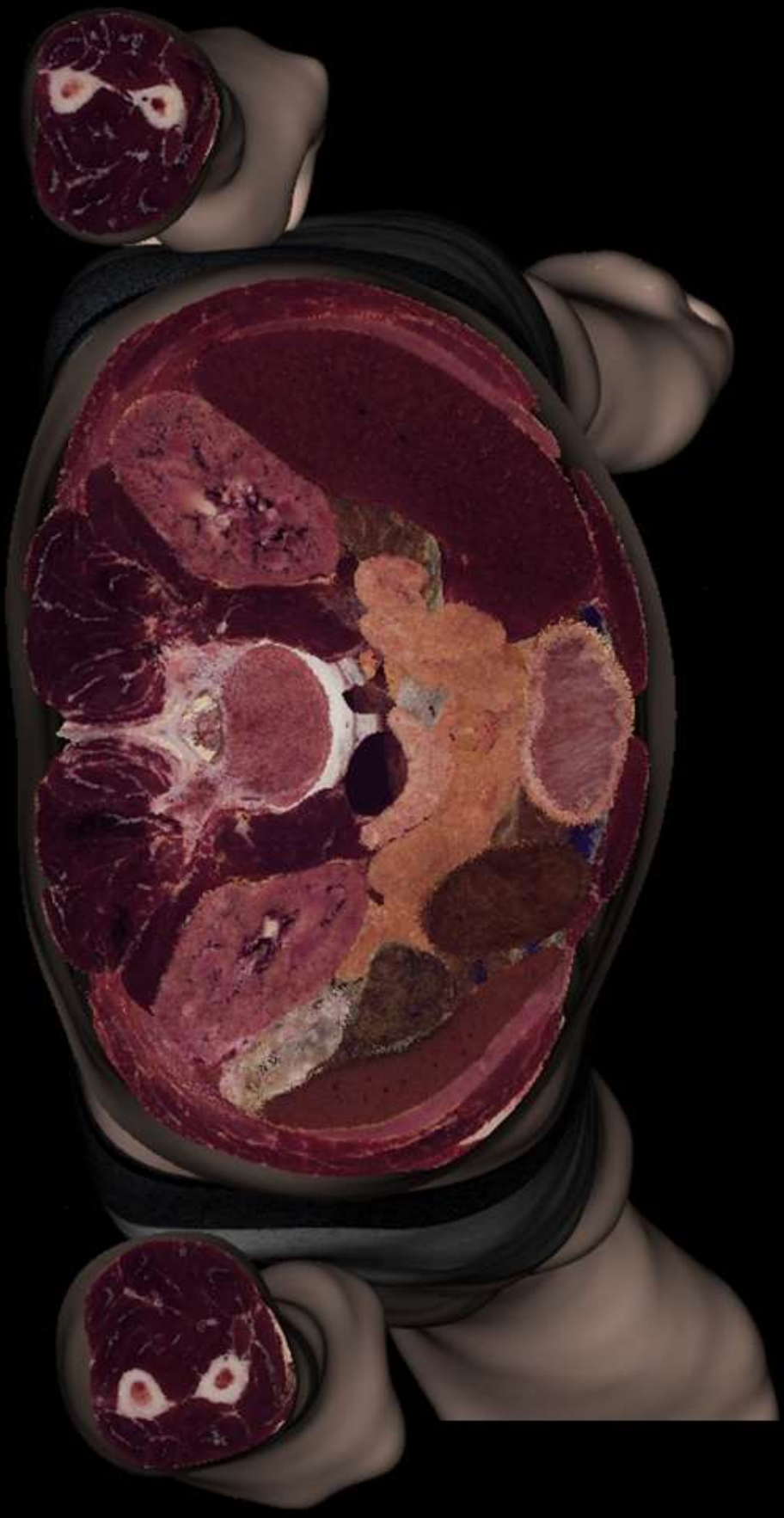
- KALBODNAMA gives full 3D digital cadaver and can be fully controlled. Users can rotate the digital cadaver and cut any point in any directions.
- User can see through the body from, frontal, sagittal and transverse plane.
- You can move frontal, sagittal and transverse planes through the digital cadaver 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.

Frontal plane

Sagittal plane

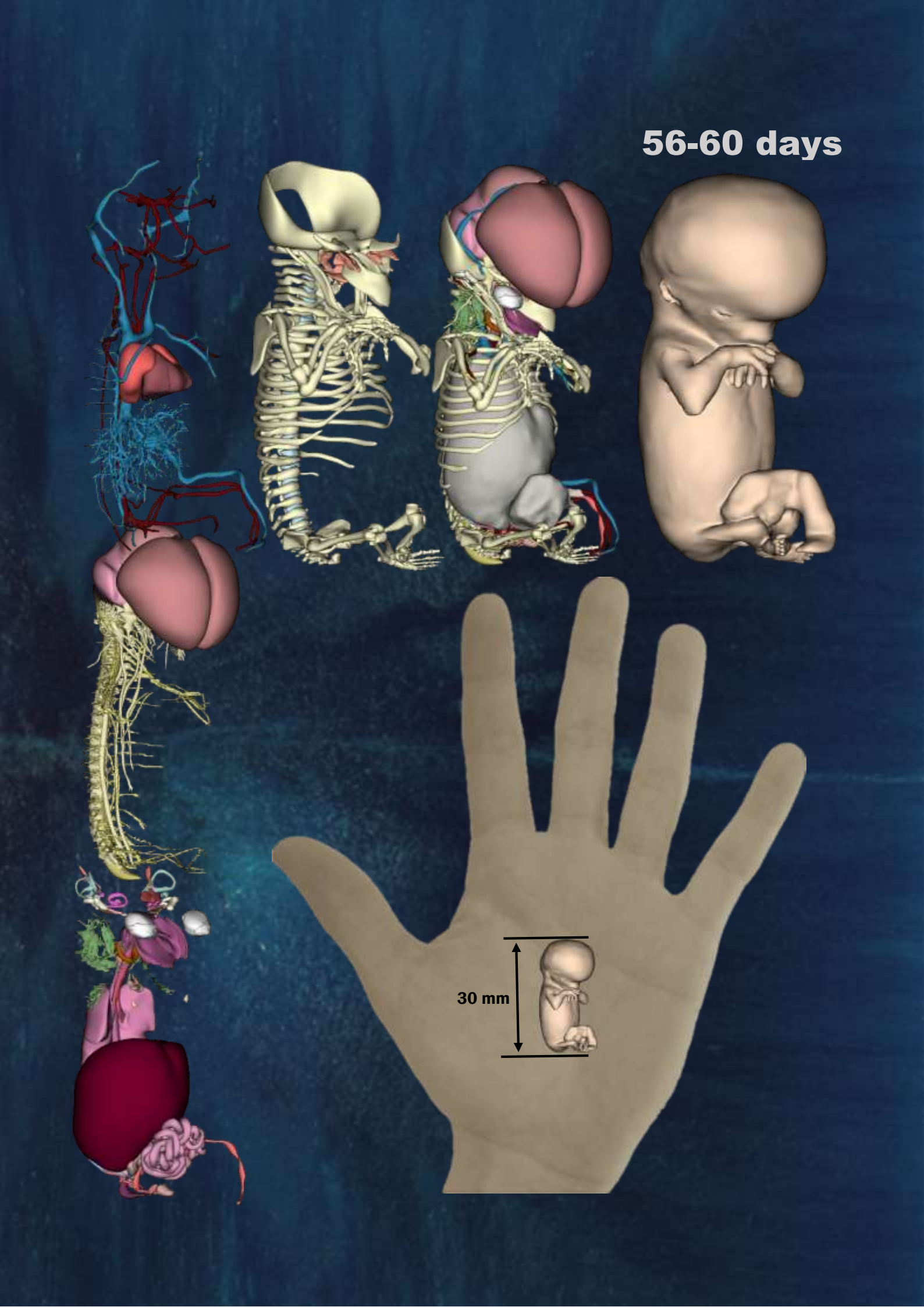


Transverse plane



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.**


56-60 days
30 mm

35-38 days

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**
- **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.**

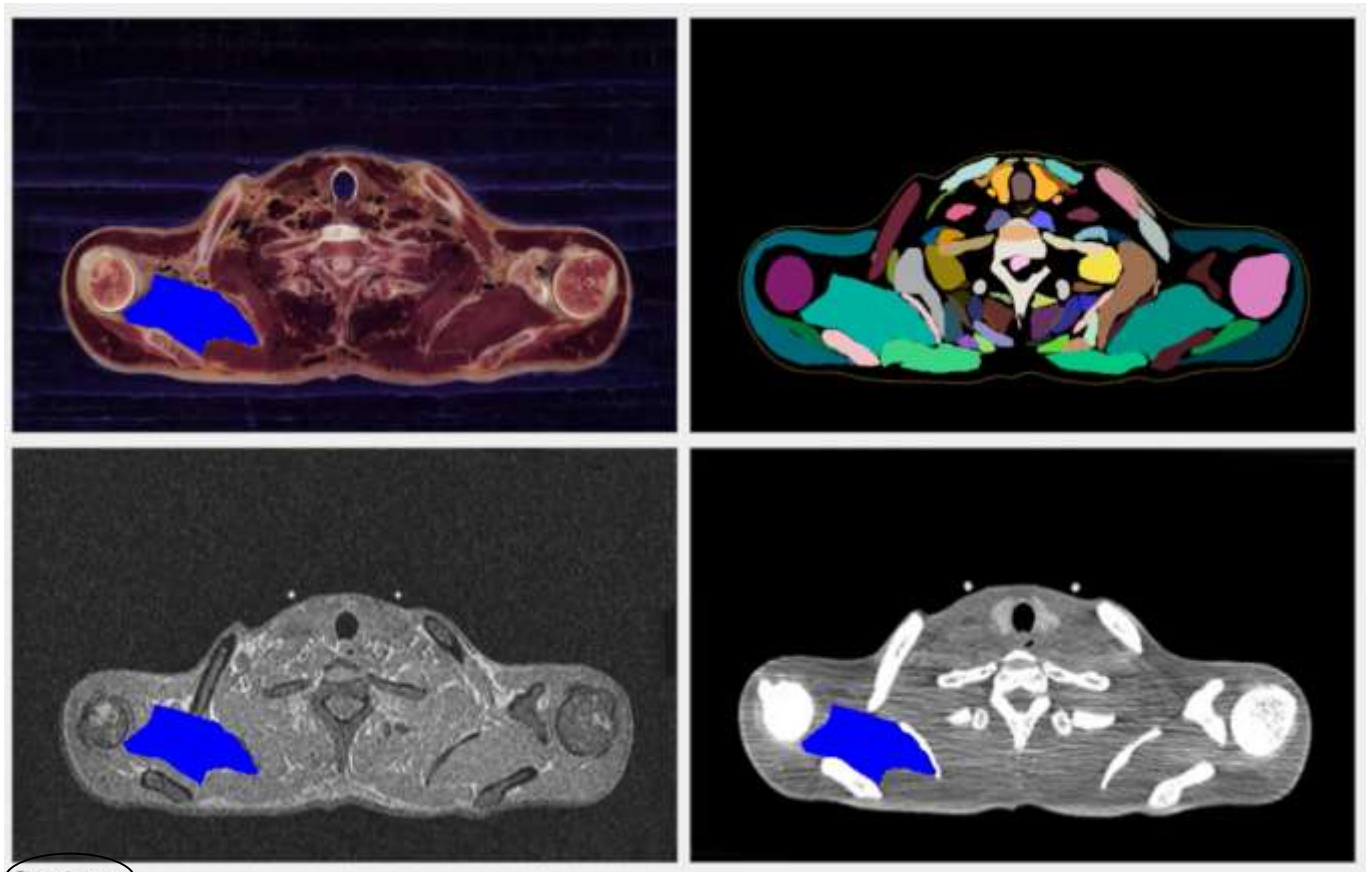
5.Sectional anatomy

- Displaying sectional images of a cadaver along with their MRI and CT 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.

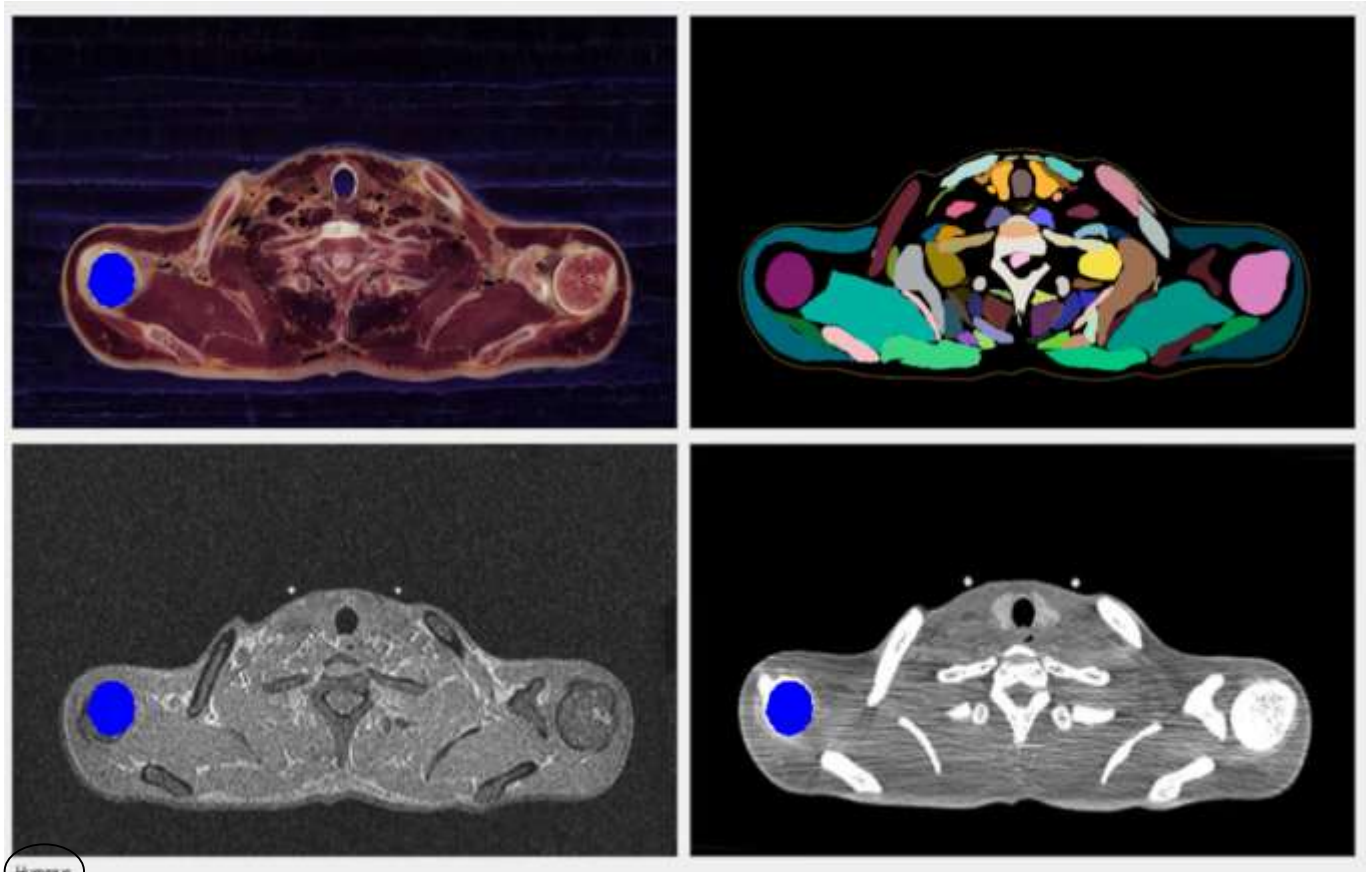
By touching of any part of any image you can see the blue overlay mark that shows the region of the selected organ over cross-sectional, MRI and CT images and the name of that organ will be shown at the bottom left.

KALBODNAMA's key Features:

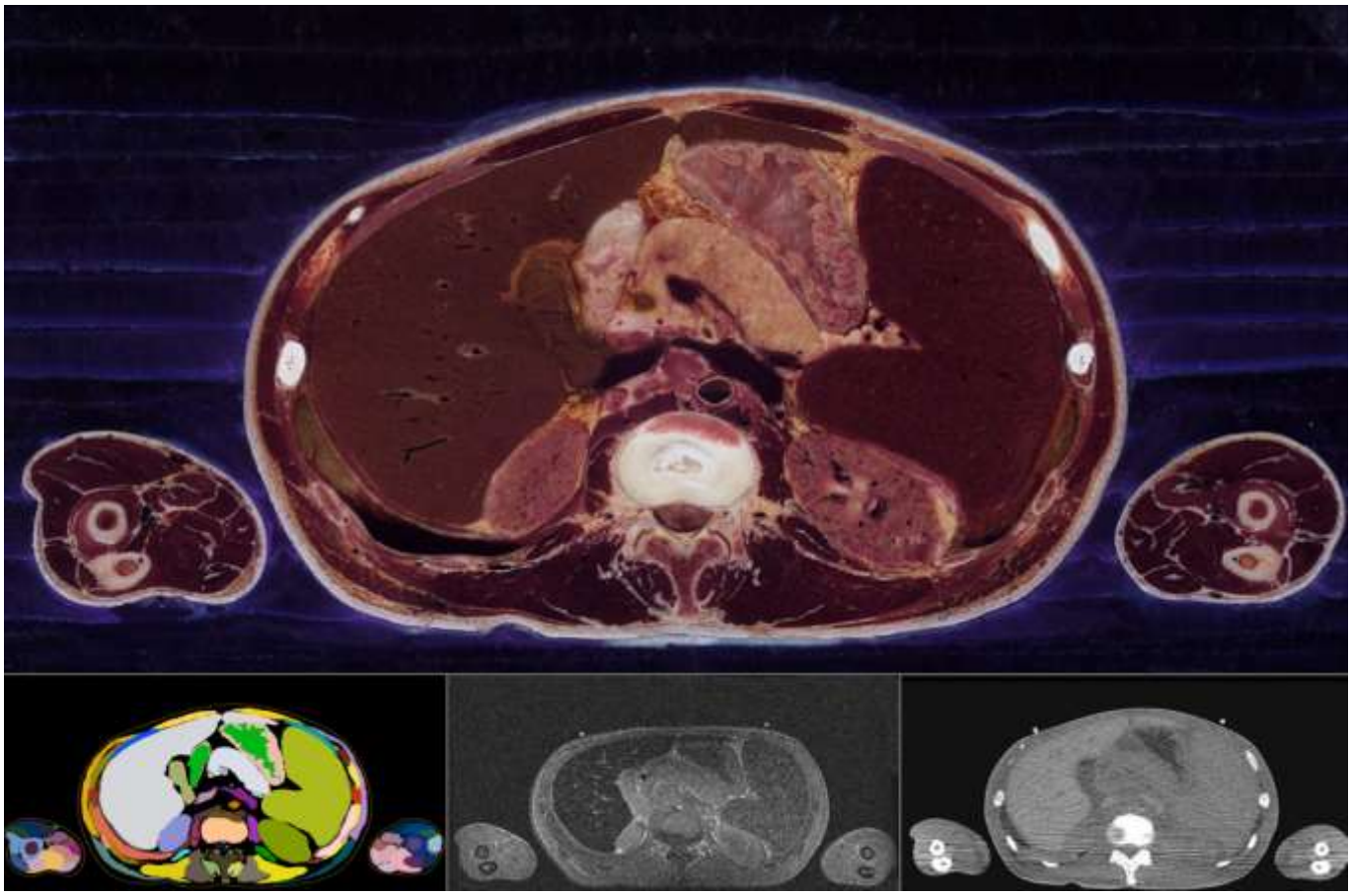
- Projecting screens through two video projector.
  (It's also possible to use one video projector but the cost will increase.)
- Connecting to a 3D printer.
- Capable of duplicating the screen using Wi-Fi and HDMI. (casting)

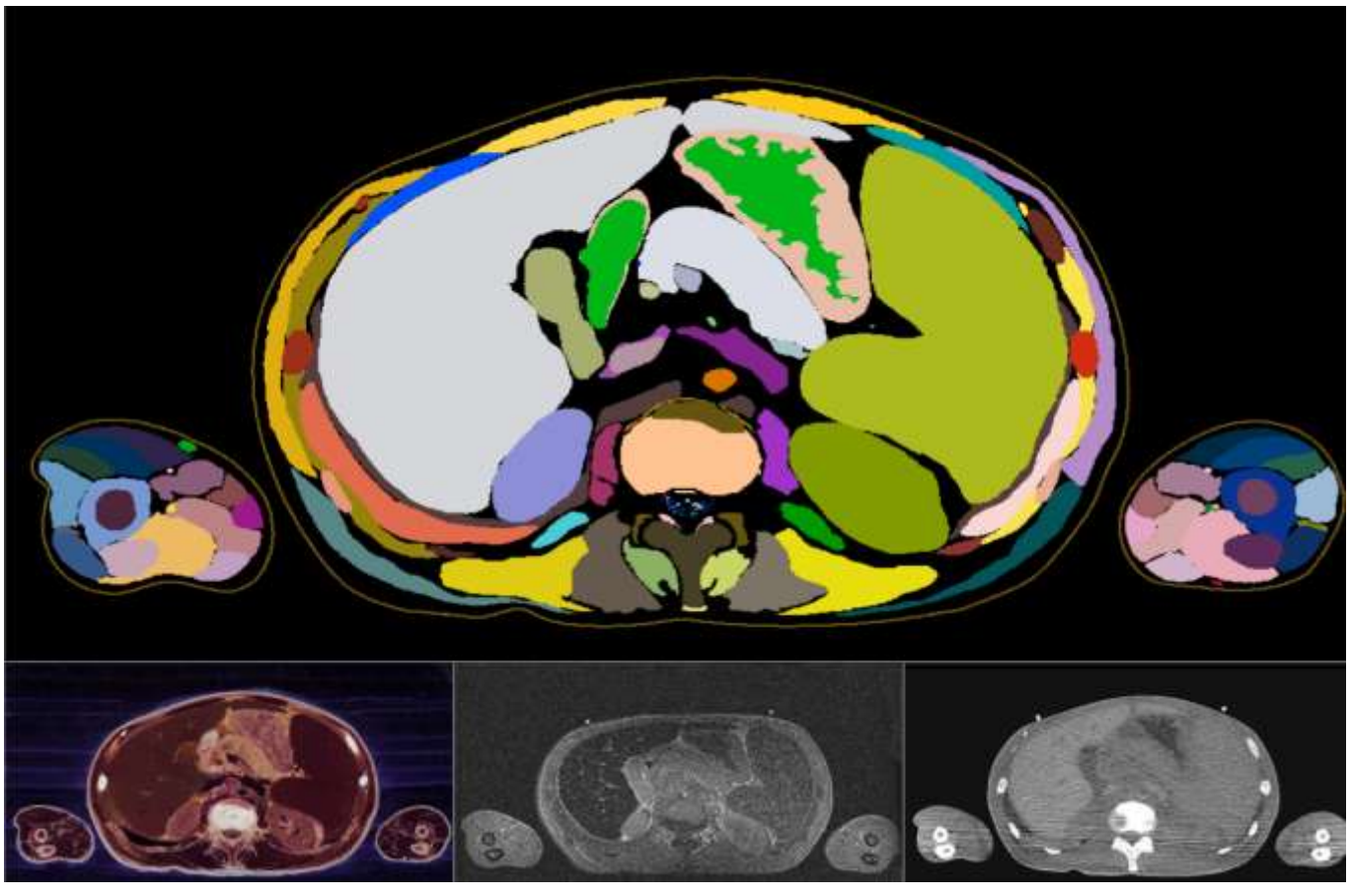


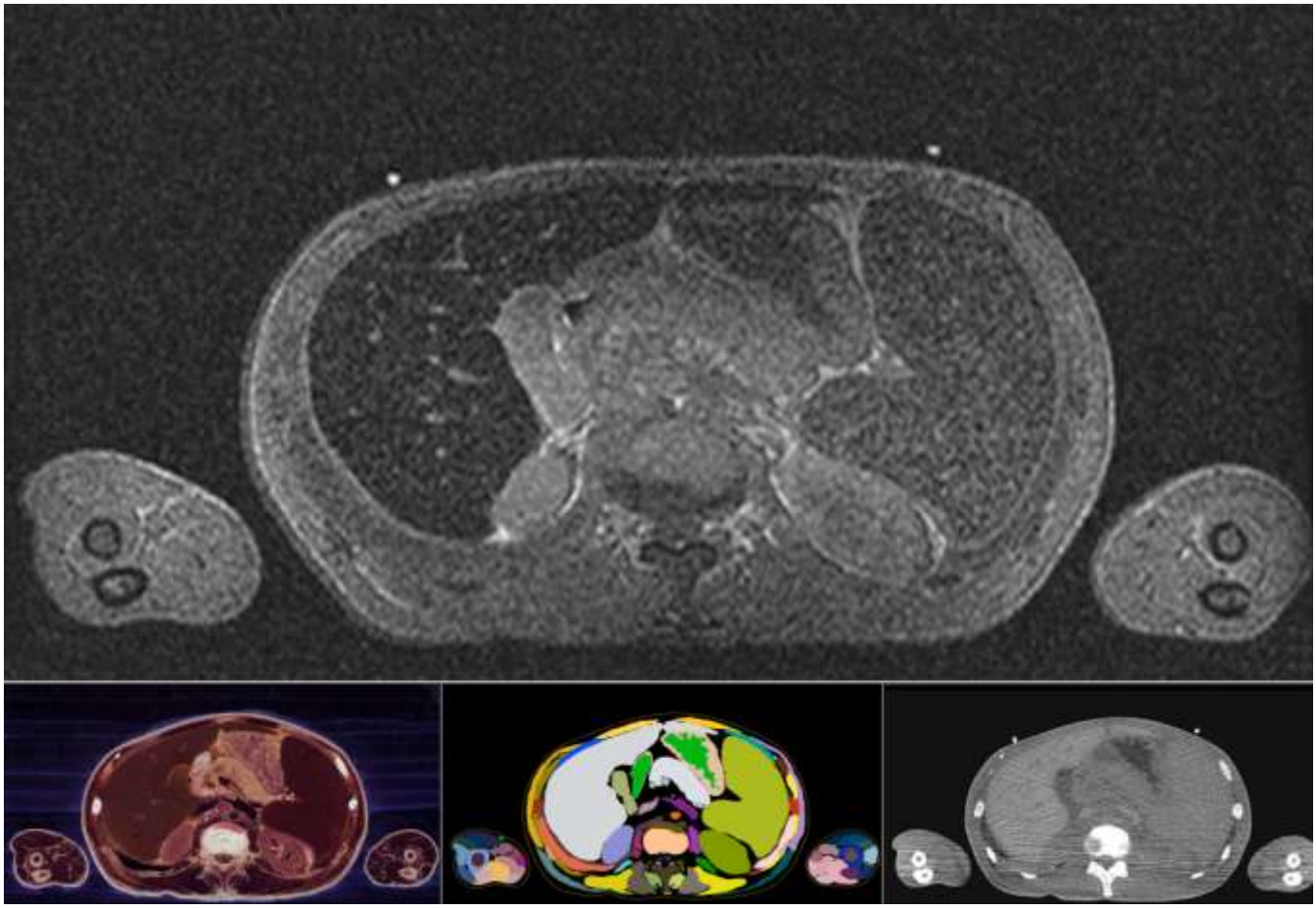
Supraspinatus m.

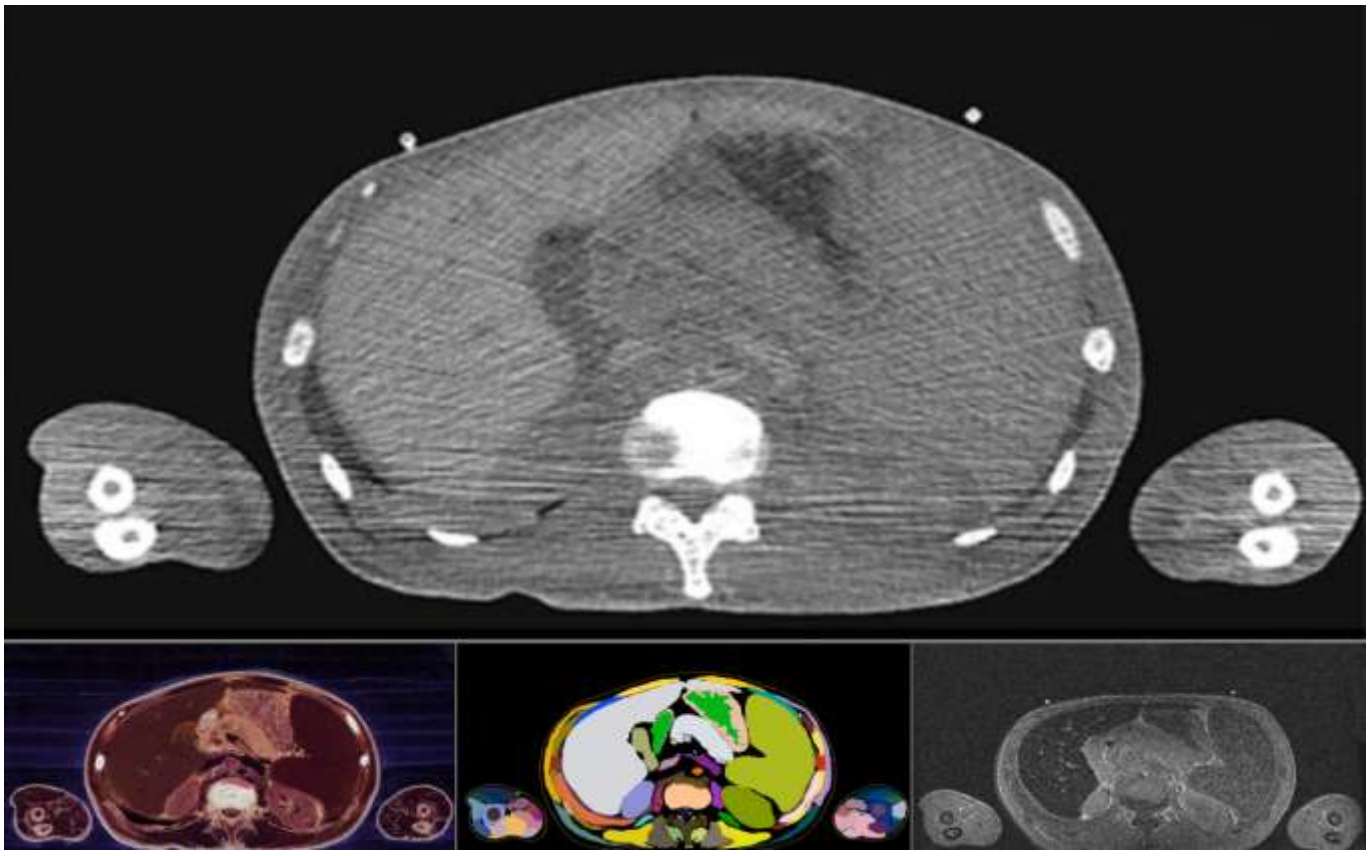


Humerus









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