

Sectra Medical Education and Training Suite

Sectra Table



SECTRA

Medical Education and Clinical Training

Needs and challenges

Current educational tools do not allow students and doctors to interact with real patients without touching them

Old methods for teaching anatomy are based on models or individual dissections without regular anatomic variations

The challenge for a good clinical training program is finding a way to deliver higher standards of clinical care, and ensure that patient safety is not compromised.

The integration of real life cases in clinical training is vital for the knowledge of medical doctors

Students need to evolve with radiology and medical images from the first years through their residency program

Improving Medical Education

Sectra Table

Main objective:

- **A tool** that allows students to learn with real cases
- **An interface** that is intuitive and allows team discussion
- **A solution** that leads the student from learning anatomy to developing critical thinking in clinical training or simulation lab

**AN EVER-EXPANDING
LEARNING TOOL**



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Medical Education and Clinical Training

Sectra Table

An ever-expanding training tool

- Designed for clinical training and critical thinking inside a classroom, a simulation lab and a residency program.
- With additional tools to fit into an anatomy lab, a simulation lab or into clinical training programs



Sectra Table in Anatomy Lab

- Virtual dissection:
 - *Allows to dissect at the same time with a cadaver or to repeat a dissection from a case in the table*
 - *Expensive preservation of cadavers, an asset that has to be renewed*
 - *No warranties of repeating same dissection twice*
 - *Interaction with real bodies and anatomical variations*
- Problem based learning (PBL) method
 - *Improves learning in students*
 - *Develops critical thinking, group and team work skills*



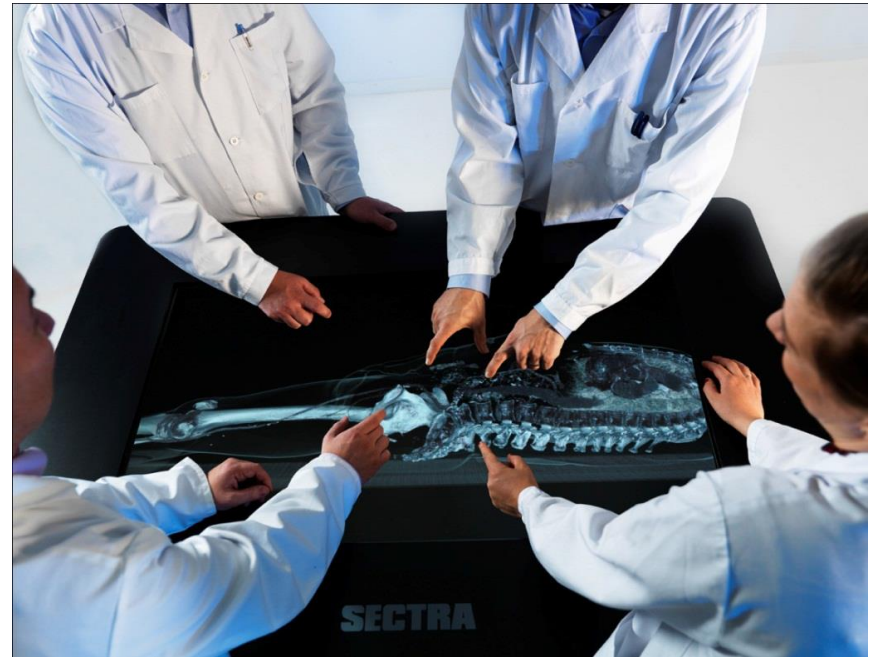
Sectra Table for Clinical Training

- Clinical Training
 - *The importance of training students and doctors to play central and significant roles in future approaches to the assessment and treatment of illness*
- Different cases
 - *Real dimensions, real pathologies can build relevant cases for simulation and discussion*
 - *Can be connected to the clinical image servers, providing cases from real patients and plan a simulated surgery*
- Different programs
 - *Fits into radiologic training programs, surgery programs, general medicine, residency and simulation labs where critical thinking strategy is applied.*

Sectra Table

Key features

- Reconstruction and visualization of CT scan and MRI
- Allows virtual dissection
- Access to real cases and scenario development
- **Training the best students:** with critical thinking and problem solution skills.



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Sectra Table

Key features

- 3D reconstruction of real cases for presentation and analysis
- Anatomic models included
- DICOM compatible
 - Integration with local servers
 - Connection to DICOM query/retrieve systems
- Radiology station software for class preparation, files management, creation of worklists and advanced analysis



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Sectra Table

Key features

- 55" touch screen with 10+ touch points
- Full HD resolution 1920×1080p
- Support for tilt and height adjustment
- CE and FDA approved SW
- Wheels for increasing mobility



Sectra Table Design



TABLE

Allows group interaction
Same position as a dissection table

BOARD

Can be attached to a projector or second screen



Easily moved and maneuvered

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Sectra Table Interface

- Intuitive gestures
 - Swipe, scroll, zoom, cut with the fingers, dissect, navigate inside structures
 - Reduces learning curve and helps the user get more comfortable with the software



Sectra Table Interface

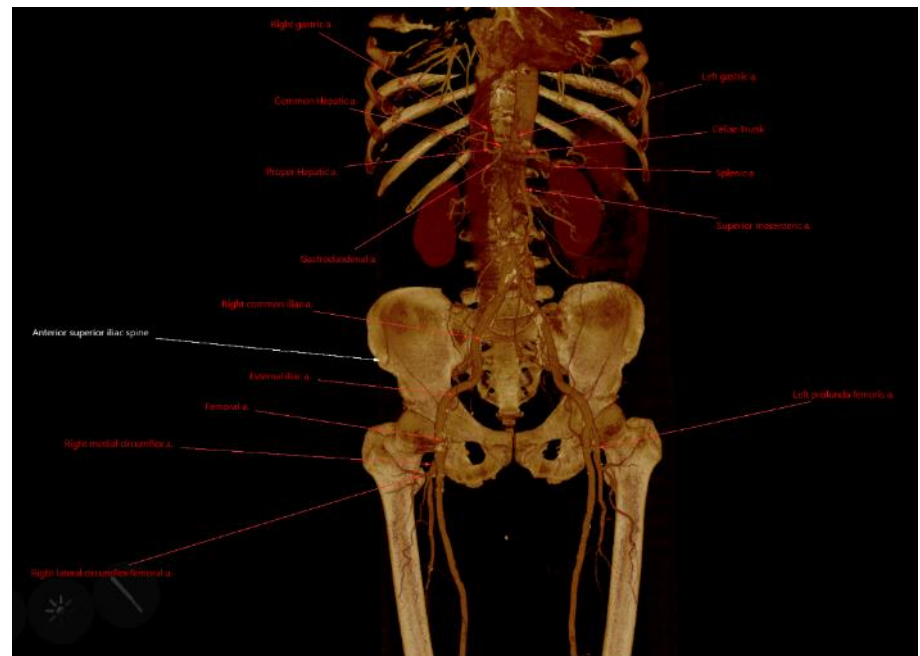
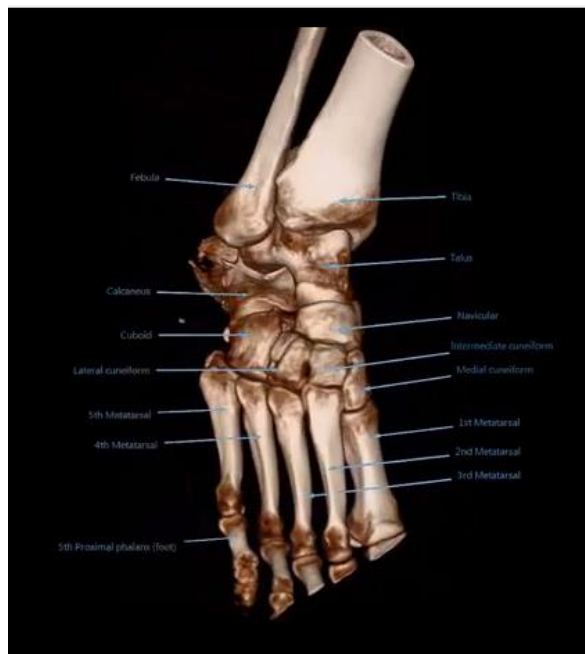
- Complete 2D and 3D tools
 - Cut, slice, measurements, labeling, segmentation of bones, CT and MRI stack review, will allow the table to be part of a simulation lab, a virtual dissection, a simulation of surgery or a very advanced presentation of a real case in residency programs



Sectra Table Interface

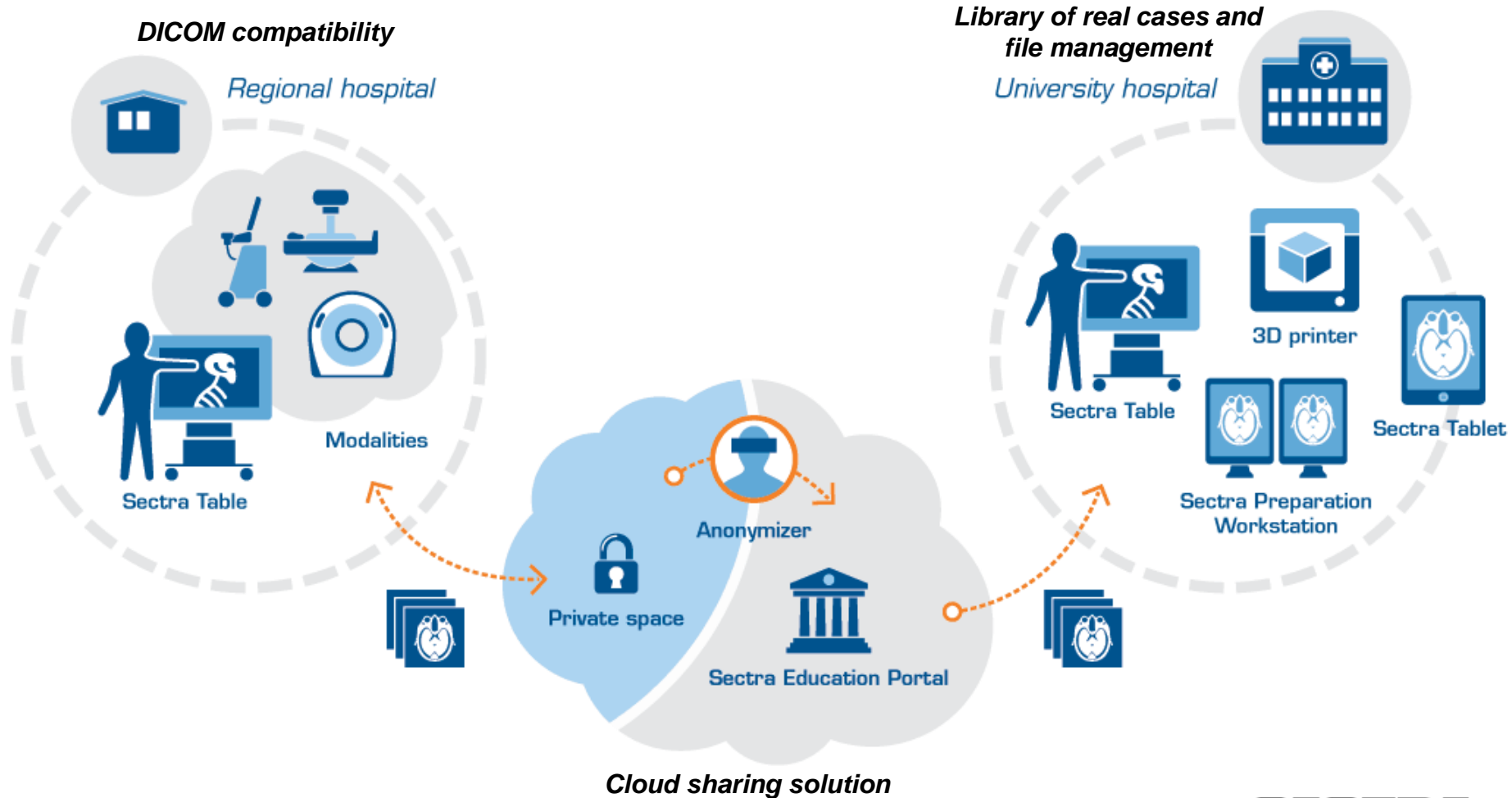
Labeling

- The user will be able to label all the structures, color the labels for systems differentiation and then hide them for a quick evaluation of the student (quizzing). All these translates into an optimization of the cases information.



Education Portal

Sharing cases and connecting to any network



Education Portal

Sharing cases with all users

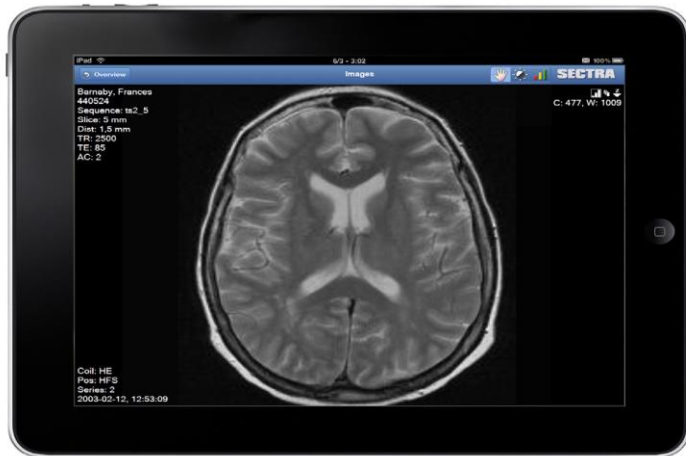


- Upload and store your cases in cloud server
 - Anonymization and face blurring for sharing with other users and reviewing cases from other users
- Main advantages
 - Back up (private space)
 - Ability to share cases
 - Collaborate with other users on teaching cases
 - File administration available everywhere (home access for preparing cases)

Medical Education and Clinical Training

More Solutions!

- Tablet solutions
 - Larger groups may need extra tools
 - For different devices (iOS, Android, Windows)
 - Allows to interact with the cases in different ways



SECTRA LITEVIEW
iOS and Android



SECTRA TABLET
Windows Surface Pro 3

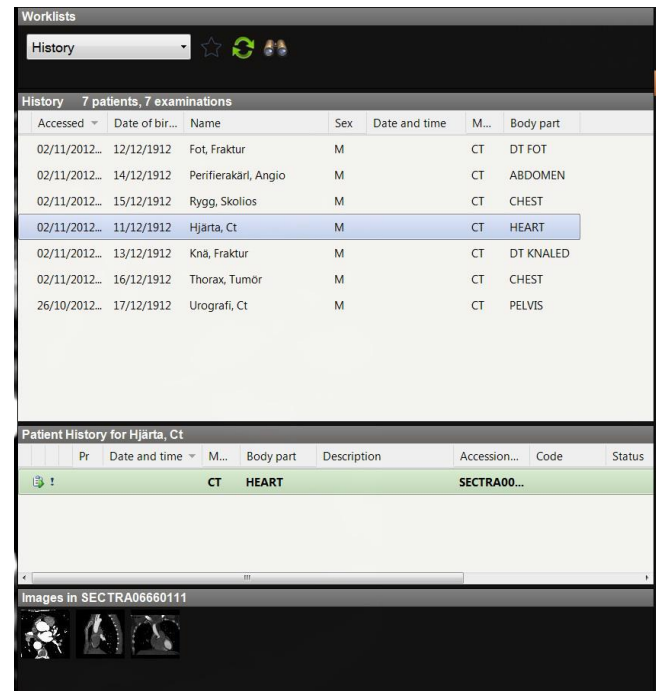
Sectra Prepstation



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Sectra Prepstation

- Creation of worklists
 - Different cases for each grade
 - Works into anatomy lessons, simulation labs and clinical analysis (residency) *
 - Easily build and adapt an anatomical library with relevant cases
 - Build cases for presenting or grading in advanced years
 - Create roles and permissions that will allow students to use the tool with restricted access to files or functions.



The screenshot displays the 'Worklists' interface in Sectra. At the top, there is a 'History' dropdown menu and several icons. Below this is a table titled 'History 7 patients, 7 examinations'. The table has columns for 'Accessed', 'Date of bir...', 'Name', 'Sex', 'Date and time', 'M...', and 'Body part'. The data rows are as follows:

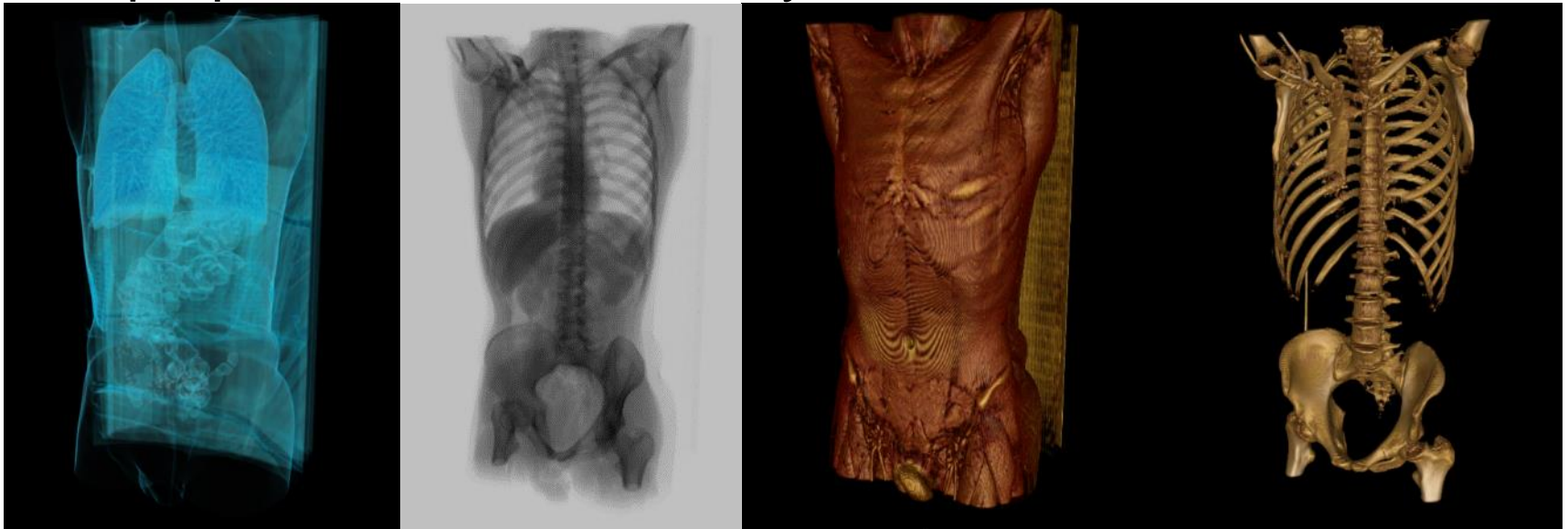
Accessed	Date of bir...	Name	Sex	Date and time	M...	Body part
02/11/2012...	12/12/1912	Fot, Fraktur	M		CT	DT FOT
02/11/2012...	14/12/1912	Periferiakär, Angio	M		CT	ABDOMEN
02/11/2012...	15/12/1912	Rygg, Skolios	M		CT	CHEST
02/11/2012...	11/12/1912	Hjärta, Ct	M		CT	HEART
02/11/2012...	13/12/1912	Knä, Fraktur	M		CT	DT KNALED
02/11/2012...	16/12/1912	Thorax, Tumör	M		CT	CHEST
26/10/2012...	17/12/1912	Urografi, Ct	M		CT	PELVIS

Below the main table is a section titled 'Patient History for Hjärta, Ct' with a table that includes columns for 'Pr', 'Date and time', 'M...', 'Body part', 'Description', 'Accession...', 'Code', and 'Status'. A row is highlighted with a green background, showing 'CT HEART' and 'SECTRA00...'. At the bottom, there is a section titled 'Images in SECTRA06660111' with several small image thumbnails.

* Sectra Table is only intended for educational purposes, not diagnostic.

Sectra Prepstation

- Creation of presets and bookmarks
 - Different tissue for the same case
 - Customizable by user
 - Better identification and analysis of structures
- All preparations automatically transfers to the Table

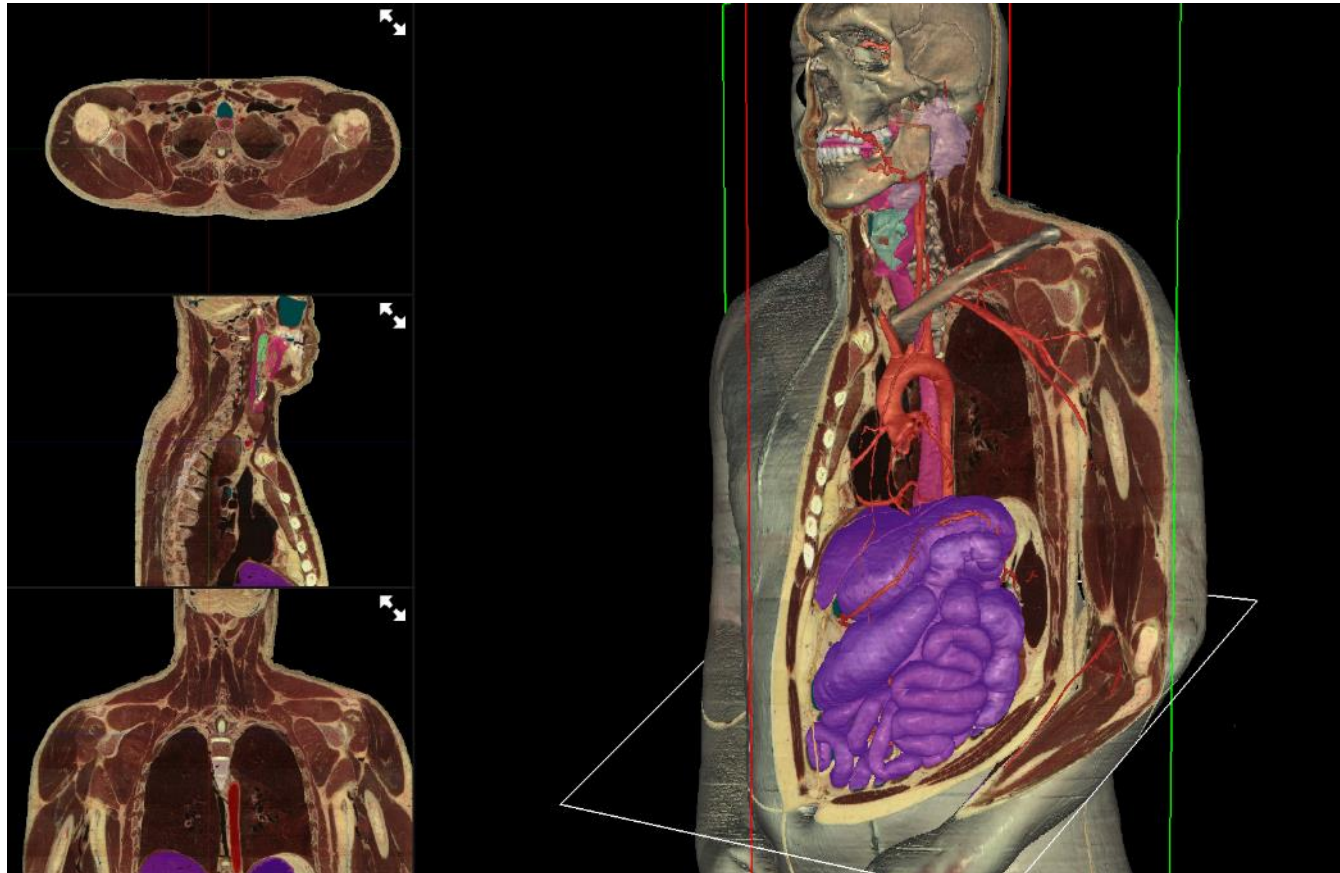


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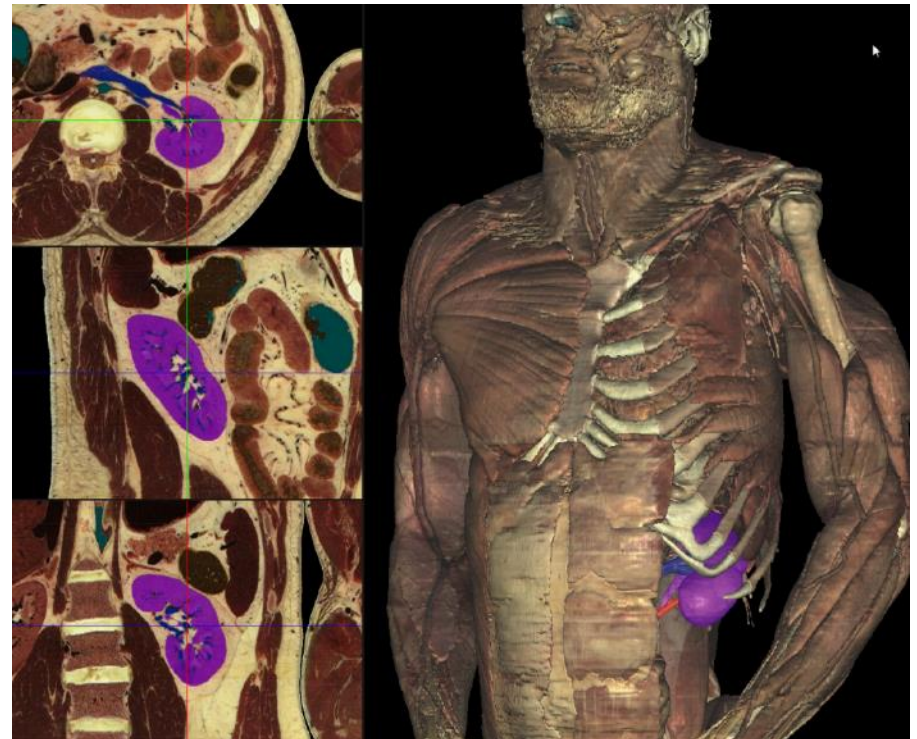
VH Dissector

- Allows dissection by layer or systems within the same touch interface and visualization of multiplanar cadaver cuts



VH Dissector

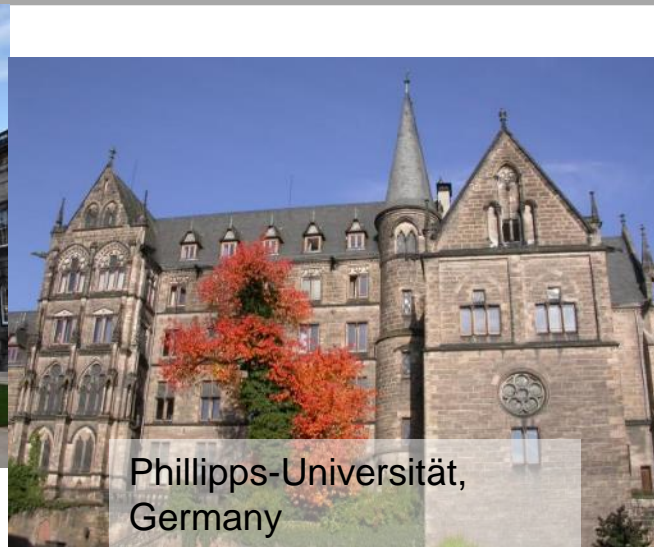
- Touch of Life Technologies has partnered with Sectra to create a highly interactive and versatile visualization table for clinical imaging and anatomical education.
- Integrated anatomical reference and curriculum from the VH Dissector based on real anatomy from the Visible Human Project® with over 2000 structures and complete human body labeling



World wide references: Installations in more than 25 countries



Edinburgh University
United Kingdom



Phillipps-Universität,
Germany



Örebro University
Sweden



Peking University People's Hospital
China



University of Virginia,
United States



UNAM
Mexico

¿Who is Sectra?

- IT Company dedicated to improve the medical field through clinical software and educational tools
- 20 years of PACS innovation and research
- Leader in medical technology
 - 1,400 PACS systems installed
 - Presence in over 50 countries
- Headquarters in Linköping, Sweden

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Knowledge and passion



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Knowledge and passion