

# Sectra Education Portal and Table





## Better medical education and clinical training – now at your fingertips

With the possibility of repeated interaction with virtual representations of real bodies rendered from clinical imaging throughout their education, students, residents and medical professionals are able to gain deeper understanding and insight into anatomy, and the functions and processes inside the body. Easy access to all types of medical images, including 3D renderings, provides the ability to demonstrate anatomical variations and, in combination with the possibility to study multiple cases, this contributes to enhanced medical education and clinical training.



## An interactive solution

### **SECTRA EDUCATION PORTAL**

By connecting to Sectra Education Portal, a cloud-based sharing portal, teachers and students have access to an extensive library of cases, providing them with a wide variety of clinical content. Through Sectra's collaborative network, institutions can share cases and knowledge with other Sectra users from around the world.

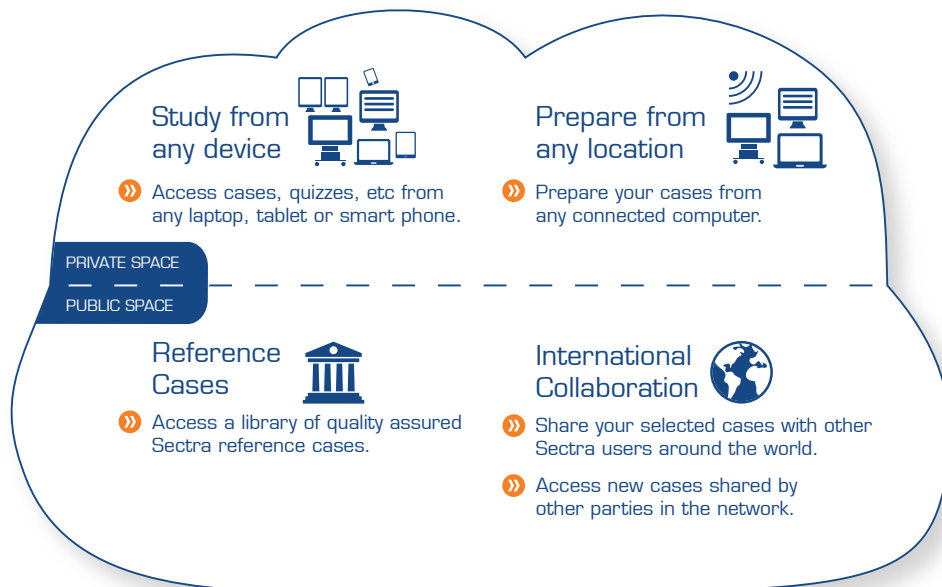
### **THE SECTRA TABLE**

Sectra Table is a multi-touch screen for interactive learning and teaching. It comes with an anatomy atlas and model cases (a number of pre-prepared clinical cases based on medical images), but you can easily add your own cases. Sectra's offering also includes a workspace for advanced preparation and organization of cases.

Any anatomical and histological image from any device.



## SECTRA EDUCATION PORTAL



## SECTRA TABLE



# Sectra Education Portal

## Visualization and collaboration made easy

Sectra Education Portal allows you to store and share educational cases with your students and residents. It also allows cases to be shared within hospitals and between universities around the globe.

### A portal to clinical content

Sectra Education Portal connects Sectra Table to a cloud portal consisting of both a private share for each institution and a public share. The portal offers a library of quality-assured Sectra reference cases. Users can make personalized bookmarks from reference cases for individual teaching purposes.

### International collaboration

Sectra Education Portal makes it possible for different departments and institutions to collaborate. Not only can users reach their own cases from anywhere, but they can also share interesting cases with other Sectra Table users around the world. By exporting cases to the public share, anyone can benefit from someone's prepared cases with bookmarks, detailed annotations and documented case story.

### Use teaching material anytime, anywhere

When connected to Sectra Education Portal, teachers, students and clinical staff are able to use Sectra's solution in the hospital, at the university – and at home. Users can reach and interact with their cases at any Sectra Table, laptop or touch device, making it suitable for classroom training as well for distance learning or studying at home.

### Protecting patient privacy

To protect patient privacy, all reference and user shared cases are anonymized – which means identifying information from the image data is removed. Faces are blurred and unrecognizable.



# Sectra Table

## A tool for developing critical thinking

Sectra Table is an interactive learning and teaching tool that uses real anatomy and clinical cases to develop critical thinking in clinical training.

### Clinical insight – within easy reach

Sectra Table is a large, multi-touch medical display, powered by a Sectra PACS workstation. It allows users to easily explore and examine virtual representations of real bodies in minute detail. 3D images are quickly and smoothly rendered from data provided by CT and MR scans.

Interacting with 3D volumes through a touch interface is similar to using a smartphone. By simply touching the screen, you can interact with the image intuitively. You can swipe, scroll, zoom, rotate and navigate inside the images as well as remove layers of skin and muscle and dissect the body with a virtual knife. Interacting with images throughout the learning process supports the tactile memory, making students better prepared to transition from virtual to real.

Sectra Table is ideal for problem-based learning and developing critical thinking. With the right cases, the table allows students take on an exploratory approach to their education.

### Complete set of medical imaging tools

Sectra Table gives you access to the same tools radiologists use, providing a familiar training environment for medical specialists. Thanks to the many features available in 3D, you can rotate, adjust contrast, cut with a virtual knife, take measurements, scroll through layers of tissue, use a clip plane or clip sphere to explore cross-sectional views, use presets to view different layers and systems, make annotations and view body parts in real size. In the

Multiplanar Reconstruction view, crosshairs are shown in the orthogonal views that are connected to chosen points in the 3D image, making navigation in complex images much easier. Furthermore, you can lock 3D images and use a magic marker to highlight parts of the body while teaching or presenting.

### From anatomy to histology training

Sectra Table also complements the dissections performed in traditional anatomy teaching – especially when physical cadavers are not readily available. Teachers can repeat the dissection of a previous cadaver case as a review or to show other students. Students can cut and re-cut the same body, exploring and learning anatomical variations and the different parts of the body.

Connected to the education portal, the user can easily view a broad spectrum of images in one platform – from gross anatomy to medical images such as ultrasound and radiology all the way down to histology images.

### Gather round the table

Sectra Table supports group discussions and collaboration, essential for team-based learning. A teacher and a group of students can convene around the table to discuss and interact with the images. Control can easily be transferred from one person to another, encouraging group discussions and teamwork. The table can also be tilted at different angles to accommodate groups of varying sizes.



### **From model to real cases**

When interpreting clinical images, students often benefit from having a reference. Sectra Table includes an interactive whole body atlas built on real anatomy from the Visible Human Project® and a human anatomy atlas. Students can visualize and interact with over 2,000 anatomical structures in 3D and cross-sectional views as well as hundreds of quizzes.

Users can also import and open all DICOM format data, thereby expanding their teaching curriculum to not only include model cases, but also real ones with pathological and anatomical variations.

### **Prepare to be an even better teacher**

Using either Sectra Table or the preparation workspace that comes with it, teachers can further enhance training by preparing the images and cases in advance. They can prepare specific clip planes or clip spheres to see the inside of the body, bone segmentations for focus on different anatomical parts or modify the presets to highlight different layers and systems in the body. All preparations can be saved and later accessed using the bookmark feature.

Apart from the actual image, teachers can also prepare notes and comments to each case, including measurements, a case story about the patient or questions for students to answer. Comments or notes can easily be hidden/shown to enhance the learning experience.

One benefit of working with a full PACS system is that teachers are able to organize prepared cases for different classes and topics by creating multiple worklists. This makes it easy for both students and teachers to quickly find the cases relevant to each specific occasion.





# Supporting a range of medical programs

Sectra Table facilitates problem-based learning and can be utilized in a range of medical programs, such as radiology training, orthopedic/surgery training, veterinary and sports medicine.

## Radiology training

Sectra Table is compatible with all imaging modalities, enabling users to easily download suitable references. Furthermore, they have access to the same tools radiologists use in their clinical environment.

## Histology training

Sectra supports a new pathology viewer where users can import histology images with different staining and link them to the patient's CT or MR scan. This combination allows students to first view a patient's anatomy and then zoom in and study the pathological changes at the tissue level.

## Orthopaedic/Surgical training

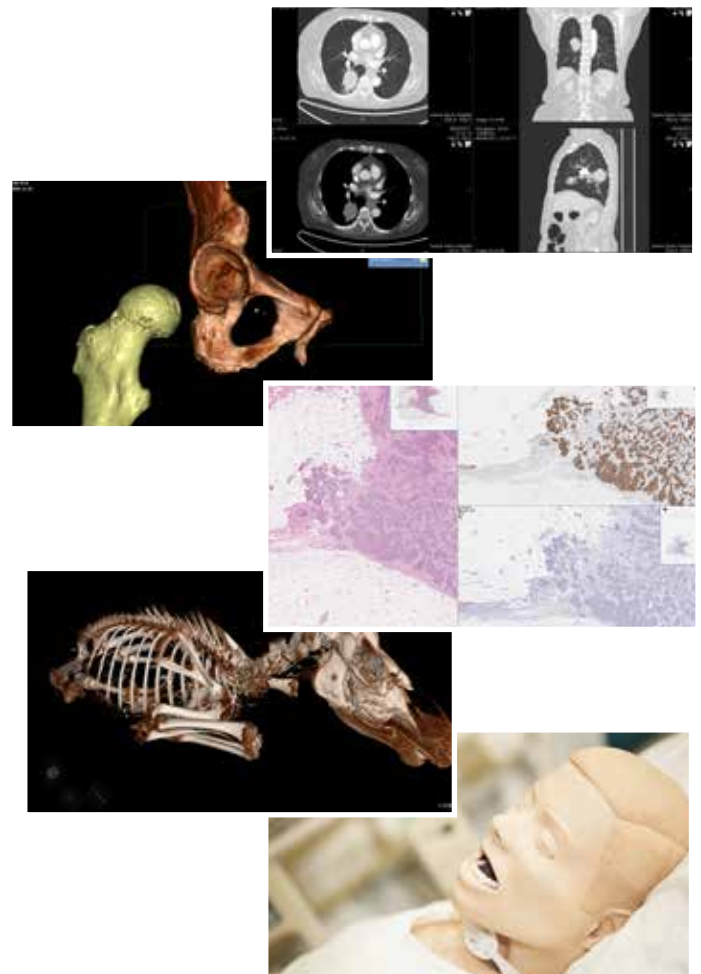
Sectra Table provides an optional add-on for 3D preoperative planning. These tools allow users to interactively evaluate and discuss different cases and strategies, making the table ideal for surgical training.

## Veterinary medicine

Sectra Table brings in imaging data from any species. Combined with the ability to share data for all veterinary specialties, this solution is well suited to training in the veterinary sciences.

## Sports medicine

Access to three-dimensional views of tendons, muscles and ligaments facilitates teaching of sports-related soft tissue injuries and supports discussion and communication around treatment strategies with individuals suffering from these and other conditions.



## Simulations labs

Sectra Table can improve human patient simulators by introducing an internal view of the simulation experience.

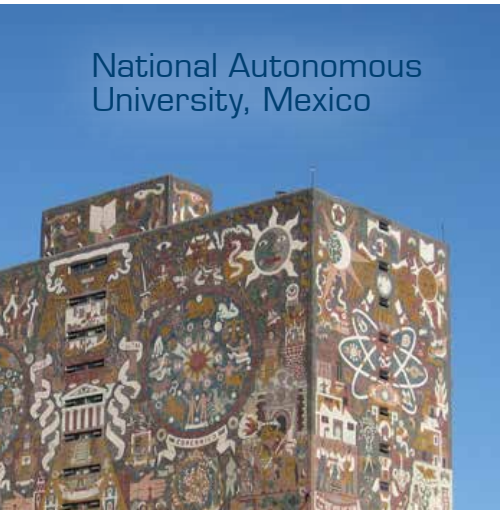
## Forensic medicine

The post mortem imaging available in Sectra Table facilitates the ability to perform virtual autopsies over and over again, making the table the perfect complement to cadaver-based dissections.

# Enhanced medical education in more than 25 countries around the world

Sectra's solution is used to train medical care staff and veterinaries in more than 25 countries in Europe, North America, the Middle East and Southeast Asia.

National Autonomous University, Mexico



Karolinska Institutet, Sweden

At Karolinska Institutet (KI), around 1,600 students yearly will benefit from using the Sectra Visualization Table in their anatomy education.

[Read the full story on next page »](#)

Peking Union Medical College, China



Antenor Orrego Private University, Peru



Philipps-Universität Marburg, Germany



University of Virginia, USA



# Leading Swedish medical university modernizes its anatomy teaching

“The visualization table allows us to modernize and increase the quality of our teaching”. The table opens up unique opportunities to convey the basic knowledge about the body that means a whole way to teach anatomy to our students.”

**A**t Karolinska Institutet (KI), around 1,600 students yearly will benefit from using the Sectra Visualization Table in their anatomy education. KI, one of the world’s leading medical universities, accounts for slightly more than 40 percent of academic medical research in Sweden and provides the largest offering of educational programs in medicine.

## A new way to teach

“The visualization table allows us to modernize and increase the quality of our teaching,” says Sandra Ceccatelli, Head of the Department of Neuroscience in charge of the anatomy teaching at KI. “The table opens up unique opportunities to convey basic knowledge about the body, offering a whole new way to teach anatomy to our students.”

Interacting with 3D images of actual human bodies helps students at KI to gain an enhanced understanding of the human anatomy and also provides opportunities to see variations in the anatomy between individuals.

“To study a real body is the best way to learn anatomy. It has previously been the preserve of medical and dental students, but now all students studying anatomy will have similar possibilities,” says Professor Björn Meister, Department of Neuroscience, KI.

## Sharing competence and knowledge

To further enhance the benefits of the Sectra Table, KI has chosen to connect to Sectra’s education portal, a unique concept for sharing patient cases with other seats of learning around the world that use Sectra’s table. This allows KI to share in materials from other universities around the world that use the visualization table.

“We will use this chance to share our competence and knowledge with other teaching institutes around the world,” says Björn Meister.



## THE KNOWLEDGE TO MEET EXPECTATIONS. THE PASSION TO EXCEED THEM.

At Sectra, everything we do is driven by a desire to make a difference. Both you, and in turn, your patients will perceive this difference as added value. Since our first PACS installation in the early 1990s, Sectra has continued to focus on medical imaging IT products and innovations.

Our experienced employees are dedicated to improving your workplace environment, which will ultimately lead to improved and more efficient care for your patients. Perhaps that explains why our solutions are used so successfully by more than 1,700 care providers throughout the world.

### WHY YOU SHOULD CHOOSE SECTRA

- More than 20 years' experience as a leading innovator in medical IT systems.
- Sectra PACS ranked "Best in KLAS" for two consecutive years - 2013 and 2014.
- High delivery reliability and extensive experience in migration and integration.
- Experience with a wide range of complex, large-scale solution deployments.
- Customer-driven development ensures efficient solutions that make a difference in our users' daily work.
- Close collaboration with research centers and universities to apply leading-edge technology.
- Strong, stable, public company founded in Sweden in 1978 with positive financial performance.

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# SECTRA

Knowledge and passion