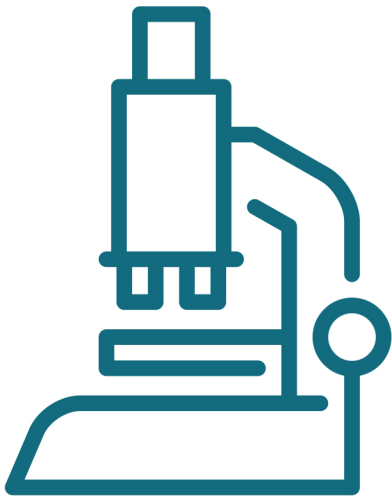


# KHARKIV NATIONAL MEDICAL UNIVERSITY

# ISIC-2019



**KHARKIV NATIONAL  
MEDICAL UNIVERSITY**



**BIOMEDICAL SCIENCES**



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## **ANATOMAGE TABLE - THE WORLD'S FIRST AND ONLY VIRTUAL DISSECTION TABLE**

In the study of Anatomy in our university institutions today, cadaver dissection is the traditional way for a student to understand the basic features of the human body. Sometimes, depending on your location or the school's capabilities, cadavers may not be easily available. This could hinder the exposure the students get, as well as the knowledge they retain from the study of the human body.

To address this, in the year 2012 a virtual dissection table was produced by a company that specializes in medical virtualization technology with help from Dr. Brown of Stanford University called the ANATOMAGE TABLE.

The Anatomage table gives students the experience of dissection without the use of a human cadaver. Its table like form along with its touch interactive features mimics the process of laboratory dissection and the doctor-patient interaction. It is the most technologically advanced 3D anatomy visualization system for anatomy and physiology education and is being adopted by many of the worlds leading medical schools and institutions. Users can visualize the anatomy exactly as they would on a fresh cadaver. The digital body is one to one life-size, so this is exactly the way students will see the real anatomy. The table allows for exploration and learning of human anatomy beyond what any cadaver could offer.

Its latest software update includes some of the following features:

- **ANATOMICAL REALISM:** which is the ability to view photorealistic anatomy developed from real human cadavers that gives you a complete and striking journey into the human body, teaching the most accurate anatomy at the highest level.
- **MASSIVE CONTENT COLLECTION:** its content collection is immensely built with more unique anatomy visualization. Which comprise of viewing the origin and insertion of tissues, vivid 3D projections, and extensive gross and regional content

- **LEVELED-UP LEARNING:** this software challenges students with built-in customized quizzes directly on the table. Students can interactively test their knowledge and engage with materials on the tables game mode.
- **DIGITAL LIBRARY:** Its digital library has a collection of hundreds of pathology scans that can be come as pre-installed content on the table. They are excellent for teaching pathology as well as normal anatomy

Hundreds of institutions on 6 continents have the Anatomage Table. Medical schools, universities, community colleges, high schools, simulation centers and PA programs have all adapted the Anatomage table into their programs. The operating table fun factor, combined with Anatomage's renowned radiology software and clinical content separate's the Anatomage table from any other imaging system on the market.

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## **BIOPRINTING TECHNOLOGIES**

Nowadays, there are often congenital and acquired pathologies of internal organs, which helps to attract attention in the development of new discoveries and opportunities in the field of medicine, for example: bioprinting.

Bioprinting, in other words, printing organs on a 3D printer, is a highly promising method by which specialists can replace damaged organs with living ones. The method is developing widely, as printed organs are much better than prosthetic or transplanted parts of the body. One of the promising directions in bioprinting is in situ printing, thanks to which tissues and organs can be printed in the human body. It is planned that doctors will be able to scan the affected areas and fill them with new layers of cells with the help of a printer. With the help of this technology it is possible to restore skin areas after burns and other wounds. 3D scans of the injured areas are taken, and then these data are used to direct the head of the printer, which applies live cells, collagen and coagulants to the wound. How the 3D printer works:

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