



USING THE ANATOMAGE TECHNOLOGY TO TEACH ANATOMY DIGITALLY: THE AFRICAN EXPERIENCE



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ABOUT ANATOMAGE

- The Anatomage table provides a digital 3-dimensional full size image of the human male and female bodies which have been re-constructed from scans of fresh and frozen human cadavers and programmed
- It allows virtual scalpel dissection as well as the visualization of various body structures,
- It is very effective for teaching students with close to reality perception and for stimulating students in the learning process [García, Dankloff and Aguado, 2018].
- Anatomage is a computerized table-like facility developed by Anatomage company in San José (California) in conjunction with Stanford University's Clinical Anatomy Division.
- Anatomage Table works as a fully interactive multitouch screen, that enables the virtual interactive dissection of the full-size human body, moving through layers of tissue or using a virtual dissect [Anatomage, 2019; García, Dankloff and Aguado, 2018].

ANATOMAGE USE AT UGHE | 2019-20

- Digital dissection/prosection facility
- Simulation facility
- Classroom teaching aid
- Digital atlas
- Case study facility: pre-loaded & new cases
- Examination : Steeple chase, MCQ etc.

“Anatomage technology allows learners to perform virtual procedures in a simulated real-life situation otherwise not possible through dissection or use of models etc.”

FURTHER THOUGHTS

“Literature supports the integration of technology into the teaching of Anatomy in the context of Medical Education; and considers it a necessity in the modern era”

1. The nature and level of use of Technology [e.g. Anatomage] varies in institutions: The different schools and teachers that shared their experiences indicated that the use of Anatomage varied from one institution to another based on the nature of the curriculum, the level of integration, policies, preferences of teachers and administration, level of students, facilities available to support the use of Anatomage as well as the available alternatives to Anatomage.

2. Integration is required: The need to integrate the technology into the existing structures without disruptions was emphasized. There should be careful planning and critical considerations should be given to the requirements of the curriculum, regulations, and accreditation requirements, best practices and alignment with the goals of training.

3. Training the users is important: The users of the technology would require quality training to facilitate quality

THE PROTOCOL


Laboratory Name:
Gross Dissection | Anatomage Dissection & Sim
Module Code: BSL-MED101 | Short Name: BSL | Version Number: GAA-002
Session Title:
General Dissection Lab Session II- Anatomage

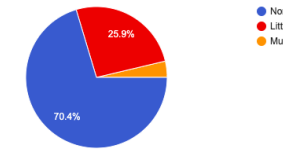
- Introduction
- Objectives
- Background
- Procedures [‘blocked’]
- Review
- Assessment & Feedback

“Anatomage can simulate blood flow and valve actions during systole and diastole, even when dissecting the heart”

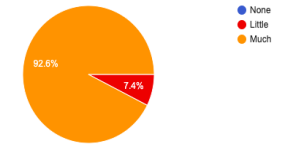


DATA

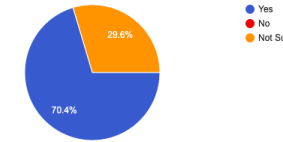
Indicate your perception about the knowledge and awareness of the Anatomage Table among medical students in your country [Rwanda]
27 responses



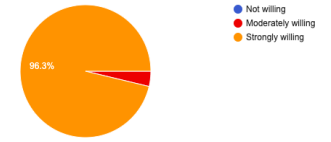
How well do you appreciate the Anatomage Table as an educational innovation for Anatomy/medical education?
27 responses



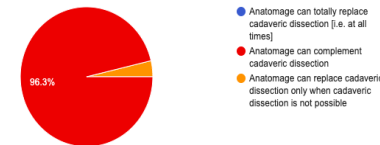
Do you think Anatomage would serve as suitable dissection facility to support your training?
27 responses



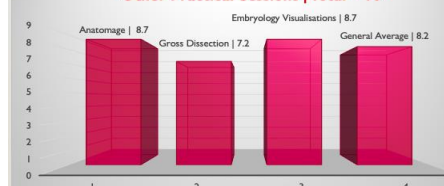
Rate how willing you are to use the Anatomage Table as a learning facility and technology
27 responses



How best would you describe the Anatomage Facility compared to Cadaveric dissection:
27 responses



Performances of Students During Anatomage and Other Practical Sessions | Total = 10



- Free Response: **Positive:** Anatomage Table enhances my learning of anatomy and appreciating body structures in a 3D view. **Negative:** Need to develop the skills about using the Anatomage Table
Study: Anatomage First-time User: Results of the Questionnaire for Medical Students

REFERENCES

- García Martín J, Dankloff Henche S. Possibilities for the use of Anatomage (the Anatomical Real Body-Size Table) for Teaching and Learning Anatomy with the Students. Biomed J Sci & Tech Res 4(4)- 2018. BJSTR. MS.ID.001094. DOI: 10.26717/ BJSTR.2018.04.001094.
- Marks SC Jr. Information technology, medical education, and anatomy for the twenty-first century. Clin Anat. 1996;9(5):343-8.
- Picture A: Training the Trainer Session
- Picture B: Anatomage in use at UGHE