



The Use of Three-Dimensional Virtual Anatomy Software as an Innovative Approach for Medical Student's Education

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The way we instruct students in the first two years of medical school becomes essential to their academic growth and execution in clinical clerkships. The human gross anatomy course has traditionally been a foundation of medical education, which has been taught through laboratory-based and didactic lectures. Thus, the gross anatomy laboratory incorporates the spatial relationships around anatomical structures rather than just the structures and functions. The improvement of reformed curricula has provided an opportunity for enhanced student comprehension in human anatomy courses along with the integration of technology into education.

The increasing prevalence of technology allows a complementary learning strategy to cadaveric dissections and didactic lectures with virtual systems in medicine. The SECTRA Virtual Dissection Table, represents a significant anatomical device for student education and training medical professionals. The SECTRA table allows to visualize and manipulate complex anatomical structures and transfer foundational concepts into clinical medicine with complete patient cases integrated with radiology and histological images with diagnostic quality. Like all technology, the equipment needs access to high-speed internet and constant supervision and updates. Recent reports recognize a noticeable interest in the use of these high-tech software tools for teaching human-gross anatomy. Although no equipment could replace the study of structures through a cadaveric study and dissection, the establishment of this type of technology assists the student to use both resources in conjunction: the cadaver and assessment of structures with three-dimensional software.

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Finally, the use of technological tools could result in the utmost advance during exceptional circumstances, such as a pandemic. The educational impact of the current pandemic of coronavirus disease 2019 (COVID-19) has brought about critical changes in medical education, especially in anatomy laboratories. The incorporation in the use of medical innovation technology, interactive media, and modern resources allows students to recognize the teaching of anatomy on virtual dissecting cadavers, with confident outcomes in anatomical comprehension and clinical practice.

As anatomists, is important to promote in medical students' scholastic comprehension of organ variation during normal and pathological states but also to encourage perseverance, determination, and resourcefulness which are imperative in the healthcare profession.

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