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## Diffusion of technology in the teaching of neuroanatomy in times of pandemic

Ana Cristina Veiga Silva<sup>1</sup>, Luís Felipe Gonçalves de Lima<sup>2</sup>, Joaquim Fechine de Alencar Neto<sup>2</sup>, Otávio da Cunha Ferreira Neto<sup>3</sup>, Nilson Batista Lemos<sup>2</sup>, Artêmio José Araruna Dias<sup>2</sup>, Andrey Maia Silva Diniz<sup>4</sup>, Melissa Helena Rodrigues Silva<sup>3</sup>, Luis Bandeira Alves Neto<sup>4</sup>, Arthur Oliveira Lira<sup>1</sup>, Luís Felipe Ferreira Marques<sup>5</sup>, Maria Luísa Rocha<sup>6</sup>, Luiz Severo Bem Junior<sup>1,8</sup>, Marcelo Moraes Valenca<sup>8</sup>, Hildo Rocha Cirne de Azevedo Filho<sup>7</sup>

#### Introduction

The millenary pragmatism of using corpses in the teaching of human anatomy has slowly been weakened. The study of anatomy has been enhanced, specially during the current pandemic, with virtual reality to supplement medical education, which was previously limited to cadavers.

#### Objective

To explore the literature on Medicine and Teaching in articles found in databases about the diffusion of technology in the teaching of neuroanatomy during the pandemic.

#### Methods

Databases used were PubMed, Virtual Health Library, and Google Scholar. The search for articles obeyed the following keywords: Covid-19, 2019-nCOV, SARS-CoV-2, Medical Students, Neuroanatomy, Anatomy, Virtual Reality, Technology. Boolean operators "OR" and "AND" were accurately applied to optimize the search.

#### Results

Students are limited to studying cadavers in class, which limits their resources when it comes to learning. However, the pandemic, was responsible for an abysmal change in the anatomy teaching. To compensate for the reduction of student contact with anatomical parts in laboratories, medical universities have adopted several technological mechanisms. Although cadavers are necessary for the study of anatomy, particularly the nervous system, new teaching techniques are essential for a holistic and comprehensive understanding of organs and systems. Besides the difficulties of handling cadavers and human organs in the teaching of so-called modern neuroanatomy, the technological environment in the field of teaching makes teaching easier.

One of the technologies in consolidation in the era of computerization of medical education is the use of printers in 3 dimensions since it produces low-cost pieces but with high reproducibility of the anatomical characteristics of real cadaveric parts. Anatomage Table is a fully segmented 3d human anatomy application. The Anatomage Table is a system that promotes a deeper study of anatomy and is therefore being adopted by many medical schools worldwide. Its technology is advanced and combines several other – X-ray, ultrasound, CT scan, magnetic resonance – to build images.

### Conclusion

The use of 3D images, anatomage and virtual reality emerges as an alternative and tool to add to the learning of neuroanatomy, as it is believed, as published studies point out, that their use is an effective option for the consolidation of learning in neuroanatomy.

Keywords: Covid-19, Teaching-learning, Neuroanatomy, Technology, Virtual reality.



<sup>&</sup>lt;sup>1</sup>Department of Neurosurgery, Hospital da Restauração, Recife, Pernambuco, Brazil.

<sup>&</sup>lt;sup>2</sup>College of Medical Sciences, Unifacisa University Center, Campina Grande, Paraiba, Brazil.

<sup>&</sup>lt;sup>3</sup>Catholic University of Pernambuco, Recife, Pernambuco, Brazil.

<sup>&</sup>lt;sup>4</sup>Federal University of Paraíba, João Pessoa, Paraiba, Brazil.

<sup>&</sup>lt;sup>5</sup>University of Pernambuco, Recife, Pernambuco, Brazil.

<sup>&</sup>lt;sup>6</sup>College of Medical Sciences, Mato Grosso State University, Cácere, Mato Grosso, Brazil.

<sup>&</sup>lt;sup>7</sup>Brasília University Center, Brasília, Distrito Federal, Brazil.

<sup>&</sup>lt;sup>8</sup>Neuroscience Post-Graduate Program, Federal University of Pernambuco, Recife, Brazil.