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ECR 2025 / C-25285

Do virtual dissection tables add benefit to physycal models in anatomy education? A Review

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Purpose

Human anatomy studies traditionally rely on cadaver dissection. However, advancements in technology, such as the 3D Anatomage virtual dissection table, have enhanced anatomy teaching. Despite its potential, there is limited information on the uses and benefits of the Anatomage table. Human anatomy is fundamental in learning the basic anatomy. It has traditionally been taught via cadaveric dissection and didactic lectures. Systematic reviews play a vital role in advancing knowledge. They synthesize the current state of a field, helping to identify future research priorities, address questions that...

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Methods and materials

This study is a comprehensive systematic review conducted from September to October 2024. The review utilized several online databases, including PubMed, SCOPUS, Wiley Online Library, ERIC, and Cochrane. Articles published in English were identified using keywords such as "Anatomage," "Virtual anatomy," "Virtual dissection table," "Residency training program," "Undergraduate training program," and "Diagnostic virtual tool." The primary aim was to explore the outcomes of using Anatomage tables alongside cadaver-based anatomy education. Literature on the use of the Anatomage table in undergraduate, postgraduate, and paramedical training programs...

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Results

We selected the research papers that suitably described the title of our review. The abstracts of the selected papers were reviewed before going to the details of the research paper. The flow diagram of the literature search (PRISMA) is represented in Figure 1. Flowcharts in evidence syntheses allow the reader to rapidly understand the core procedures used in a review and examine the attrition of irrelevant records throughout the review process. Anatomage utility in anatomy for healthcare and medicine students. The Anatomage table features advanced tools...

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Conclusion

In conclusion, the present review article gives some insight into the benefits of the Anatomage virtual table and its utilities in education and diagnosis. Anatomical knowledge retention can be achieved by utilizing Anatomage in conjunction with cadaveric dissection. Further, it is an important tool for understanding congenital anomalies, anatomical structure variations, and normal and pathological cases. Introducing Anatomage into the curriculum can make undergraduate and postgraduate programs more interesting and valuable. Anatomage improved the learning outcome of anatomy, radiology, and surgery.

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Personal information and conflict of interest

J. Pinheiro: Nothing to disclose L. P. V. Ribeiro: Nothing to disclose A. D. M. Ribeiro: Nothing to disclose

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Fig 1: Identification of studies via databases

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