Title: CADAVIZ: The Digital Cadaveric Path to Medical Expertise

Principal and Presenting Author: Dr. Srividya Sreenivasan,

Designation: Professor and Head, Department of Anatomy

Name of Institute: DY Patil University School of Medicine

Introduction:

The integration of technology into medical education has redefined the cadaveric path to medical expertise by introducing innovative tools such as the Virtual Dissection Table, CADAVIZ™. Understanding students' perceptions of such tools is essential to evaluate their effectiveness, engagement, and role in complementing traditional pedagogy. Thus, with the current study, we aimed to assess learners' experiences and attitudes towards CADAVIZ™.

Methodology:

A cross-sectional study was conducted among 128 first-year MBBS students at the Department of Anatomy, DY Patil University School of Medicine. Informed consent was obtained, and a structured Google Form questionnaire with a 5-point Likert scale ('Strongly Agree' to 'Strongly Disagree') was used to assess students' perception of learning gross anatomy, radiology, histology, embryology, and more with CADAVIZ™.

Results:

Students reported highly positive experiences with CADAVIZ™. Overall, approximately 94% agreed that it is an innovative learning tool. Visualization of anatomy improved for approximately 79%, while interactive 3D features facilitated understanding of spatial relationships for approximately 88% of students. Regular classroom use was supported by approximately 80%. Radiology, histology, and embryology modules received high agreement, up to approximately 85%. CADAVIZ™ was easy to use (approximately77%), engaging (approximately 88%), and useful for exam revision (approximately 76%). Confidence in

learning improved for approximately 68%, with approximately 80% of students rating their overall experience above 4.

Statistical Analysis:

Descriptive statistics summarized Likert scale responses to highlight trends in student perceptions.

Conclusion:

The study demonstrates that students perceive CADAVIZ™ as a highly effective, interactive, and user-friendly tool that enhances understanding, engagement, and confidence in anatomy learning.

Keywords: CADAVIZ™, anatomy, 3D learning, cadaveric dissection, medical education, virtual dissection.