

## **UNDERGRADUATE ANATOMY AND PHYSIOLOGY REVEALED**

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**INTRODUCTION.** This demonstration will introduce Anatomy and Physiology Revealed (A&P Revealed), a new version of Anatomy Revealed targeted for undergraduates. A&P Revealed is an interactive, multidisciplinary computer program that uses dynamic, cadaver-based, “melt-away” dissection to explore human anatomy. A&P Revealed also incorporates animations that illuminate physiological mechanisms. This demonstration will provide an opportunity for educational software developers to discuss approaches and to exchange ideas.

**ABSTRACT.** Computer-based educational software is a learning tool requested by both students and faculty to provide for more efficient studying and learning in the face of the increased pressure of constantly evolving medical curricula. We developed Anatomy Revealed (Professional) for first-year medical students for several reasons: to provide a means to study surface anatomy and relationships between structures at different depths; to integrate a clinical perspective with the study of human structure; and to provide fun and efficient study and learning tool. We used animations (Flash and realistic 3D character animations) to demonstrate complex anatomical structures and concepts. To date, we have completed Volume I of Anatomy Revealed (Professional), 4 CDs that cover the anatomy of the head (CD1-Face, CD2-Orbit, CD3-Nasal and Oral Cavities, CD4-Cranial Cavity).

In response to market and publisher interest, we are now developing an undergraduate edition of Anatomy Revealed. The new version differs significantly from Anatomy Revealed (Professional) in that it follows a systems approach instead of the regional approach typical of most medical curricula, and it includes animations that explore physiology.