Design and Implementation of Animated Pulmonary Pathophysiology: Towards an Interdisciplinary E-Learning Module

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Abstract

Conventional medical education often presents concepts in disciplinary silos, making it difficult for students to integrate these concepts – even though they may be about the same organ system. One of the goals of Vanderbilt Medical School’s Curriculum 2.0 is to facilitate this integration. We believe that e-learning modules that animate the relationships between interdisciplinary competencies will help students visualize these connections and gain a better grasp of the underlying basic principals of disease. We therefore propose to design, create, and evaluate an e-learning animated platform that will integrate concepts across the various disciplines of histology, physiology, and pathology using the pathophysiology of the lungs as a proof-of-concept model system.