Brain Based Learning Applications of Radiation Sciences: Experience is the Network to the Mind

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Abstract
Historically, education was more of an art than based on science. In recent years, a significant body of work has been developed around neuroscience and learning. This article examines neuroscience concepts, the incorporation of brain-based learning into current educational knowledge, and applications to radiation sciences education as well as how to help the student learn with the brain in mind. Brain-based learning, for the purposes of this article, will be defined as educational pedagogy that incorporates neuroscience concepts in its curricula and practice.

Active Learning Strategies for Radiologic Science Education
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Abstract
Teaching concepts within the radiologic sciences has been a challenge for educators throughout the years. Theories and methodologies have changed to accommodate changes in education and radiologic sciences. Current literature is shifting educators away from traditional teaching methods to a more active approach. The purpose of this paper is to summarize ideas for incorporating active learning into the radiologic science curriculum while providing a foundation for the ideas through theories and models.

The Use of Cooperative Learning in the Classroom
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Abstract
Cooperative learning, a category of active learning, can be an important component of a student's education. Through cooperative learning, students acquire attributes of teamwork and individual accountability - characteristics definitely associated with medical imaging professionals. This article discusses the technique of cooperative learning along with ideas of implementing student self-evaluation and group evaluation. Active learning can add to an instructor's arsenal of teaching tactics, this article will give examples of how this can be accomplished.