

# **DIVERSE ELECTRONIC IMPLEMENTATION OF NEUROSCIENCE EDUCATIONAL MATERIALS AIDS IN INDEPENDENT STUDENT LEARNING.**

**Barb Puder, Ph.D., Rehan Waheed, B.S., Rey Notareschi, M.Ed.**  
**Northeastern Ohio Universities College of Medicine, Rootstown, Ohio**

## **Summary**

Providing resources for first year medical students enrolled in an integrated neuroscience course allows for students to review course materials independently. Northeastern Ohio Universities College of Medicine (NEOUCOM) has packaged course information for student use by creating online resources available on WebCT, and digital versatile discs, (DVDs) to assist in student learning. These packaged resources allow students to study and review relevant course materials independently and at their convenience.

## **Introduction**

One of the curricular goals for NEOUCOM is to create students who will become independent and life long learners. To achieve this goal, students have access to electronic materials online and on DVD. For the integrated neuroscience course, materials included streamed videos for prelaboratory instruction, an interactive neuroatlas, and quizzes for student self assessment were available online through a course management system (Web CT). In addition to online resources, a neuroscience laboratory review DVD was produced and disseminated to students. The diverse electronic resources allow students to study and review at their own pace and encourage and create a strong foundation for lifelong independent learning.

## **Details of the Project**

10-15 minute laboratory presentations were streamed and put online into WebCT. These presentations were viewed by students before the laboratory for prelab orientation. The neuroanatomy atlas was put onto Web CT with each of the underlined bold faced terms linked to a digital image for student viewing. At the conclusion of each lab unit, a quiz highlighting some of the key items from the lab was available for students to self-assess their progress, level of understanding and knowledge. Two DVDs were created that were an entire review of all the labs and materials for the midterm and final practical exams. These DVDs were available in the university library or for individual purchase at duplication costs.

## **Evaluation of the Project**

Surveys were completed by the students after the course was completed. Positive feedback was given by students who encourage further development of this project.

Barb Puder, Ph.D.  
[Bap2@neoucom.edu](mailto:Bap2@neoucom.edu)  
(330) 325-6632  
(330) 325-5916