



SLO Assessment Cycle for HTEC 83A

Clinical Microbiology Lecture

Assessment Initiated by: [Debbie Wagner](#) (8790) in HTEC

Outcomes:

Outcome 1: Statement

Given patient history information, specimen source and laboratory results including biochemical profile, media used, gram stain, and other selected identification results identify the hematological organism isolated from the patient.

Assessment Cycle Records:

Outcome 1: Assessment Planning Modified: [03/24/2011]

Assessment Strategy Used:

Quarter: Winter 2010

Assessors: Debbie Wagner, Patricia Buchner

Assessment Tools: Exams

Sections being assessed: 01

Outcome 1: Reflect & Enhance Modified: [03/24/2011]

Number of people involved in Reflection and Enhancement: 2

Changes:

Methods:

Using exam questions, students were given patient history, laboratory results to include the source, biochemical profile, media, gram stain results and other selected identification tests and asked to evaluate the information and identify the microorganism presented and determine if the organism is normal flora or a pathogen. A variety of levels (A-C) questions were used to assess this outcome.

Criteria used to evaluate exam questions:

Level A: Those that require higher critical thinking, including analysis, synthesis or evaluation. For these questions, there may be no directly visible connection between the course material and the test question.

Level B: Those that require lower critical thinking skills, such as application. These questions can be directly answered from the background provided by course materials. There is a visible connection between the material and the test questions.

Level C: Those that utilize knowledge and comprehension, but not critical thinking. The answers to these questions arise directly from the course material, with some changes in wording and phrasing.

Summary:

Exam questions of varying levels (A-C) were given to students on 2 exams plus the final exam. Class mean scores on Level C questions were 96%. These questions required the student to utilize knowledge and comprehension, but no critical thinking was involved. The score reflects that the material was understood by a majority of the students. Level B questions required application of course materials. The student mean score (83%) is acceptable for these questions.

Level A questions required analysis, synthesis and evaluation. The student mean score (70%) is acceptable for these questions.

The mean scores for each question level indicate that a majority of the students have the ability to analyze case study data, identify an organism and evaluation if it is considered normal flora or a pathogen for various sources.

Enhancement (Part I):

Although the team members conclude that the mean score of the class on all 3 criteria evaluation levels is adequate, future plans include more emphasis on level A questions, those requiring analysis, synthesis and evaluation. The goal is to raise the 70% class mean on Level A questions. Discussions include increasing the number of case studies presented to students for discussion through an online format. It is believed that given more opportunity for practice, the percentage of positive student learning outcomes will rise.

Enhancement (Part II):

The above course enhancement can be done using Catalyst, a digital microscopic camera and clinical research through our clinical affiliates.

[Number of Outcomes for HTEC 83A: 1]