Assessment: Course Four Column

FALL 2015

El Camino: Course SLOs (HSA) - Radiologic Technology

ECC: RTEC 106:Clinical Experience 1

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #3 Transporting Patients - Students demonstrate the proper transporting technique via wheelchair and gurney. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2015-16 (Fall 2015) **Input Date:** 11/08/2013	**Performance -** Performance of transporting patients on gurneys and wheelchairs. Two educators had students practice moving simulated patients from wheelchair to x-ray table and gurney to x-ray table and vice versa. Then they were asked to transport patients through a maze without hitting anything or anyone. Students will multiple chances to master the skill until they are deemed proficient. **Standard and Target for Success:** 100% of students are able to safely transport patients in a wheelchair or gurney.	**Semester and Year Assessment Conducted:** 2015-16 (Fall 2015) **Standard Met? :** Standard Met Students were given multiple scenarios and opportunities to practice transporting patients in wheelchairs and gurneys. On average they practiced half of the semester during labs and in clinical setting and were able to competently transport patients. (01/28/2016) **Faculty Assessment Leader:** Mina Colunga **Faculty Contributing to Assessment:** Joel Sanchez	**Action:** The method of instruction using modeling by instructors of the proper and safe method of transporting patients in wheelchairs and gurneys was very effective. Next year some complexity can be added to the situation creating case scenarios for diverse groups of patients. (01/28/2016) **Action Category:** Teaching Strategies

ECC: RTEC 111:Fundamentals Rad Tech I

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #3 Equipment Manipulations - Students will analyze radiographic images for diagnostic quality contrast, density and recorded detail. The student will be able to make appropriate adjustments of the x-ray equipment to correct any errors with the image **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2015-16 (Fall 2015) **Input Date:** 11/29/2013	**Presentation/Skill Demonstration -** Evaluation of Equipment Performance Test **Standard and Target for Success:** Students will pass with 91% average on evaluation of equipment manipulation performance test on the first try.	**Semester and Year Assessment Conducted:** 2015-16 (Fall 2015) **Standard Met? :** Standard Met 23 students took the performance test and scored an average of 94% 50 points possible x 23 students = 1150 possible The scores were 1081 out of 1150 = 94% (01/28/2016) **Faculty Assessment Leader:** Mina Colunga **Faculty Contributing to Assessment:** Joel Sanchez	**Action:** The instructional methods are working and students scored well. We will continue this method through the next cycle and if the standard is met again, we will consider replacing it with a new SLO for this course. (01/28/2016) **Action Category:** SLO/PLO Assessment Process

ECC: RTEC 123:Radiographic Positioning 1A

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #1 Radiation Safety & Shielding - Students will apply radiation safety by using appropriate shielding with a lead apron during an on campus simulated lab evaluation.tudents will be able to analyze radiographic images for diagnostic quality contrast, density and recorded detail. The student will be able to make appropriate adjustments of the x-ray equipment to correct any errors with the image. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2015-16 (Fall 2015) **Input Date:** 11/08/2013	**Performance -** Students will apply ALARA radiation safety principles on patients, self and others. In a simulated lab evaluation, students will correctly apply radiation shielding to their patient's gonadal region, prior to positioning the x-ray tube, each time they perform a simulated radiographic exposure. In RTEC 123 there are 10 simulated assessments. Fall 2015 there were 23 students. N=230 assessments. **Standard and Target for Success:** At least 90% of the 1st year students evaluated will remember to place the shielding.	**Semester and Year Assessment Conducted:** 2015-16 (Fall 2015) **Standard Met? :** Standard Met Benchmark is 90 % of the student will correctly apply radiation shielding to the gonads of the patients, less than 10 % of the students will forget or apply the shielding incorrectly. Fall 2015 N=230 assessment. Results = 4 student did not apply a shield 10 students applied the shield, but it could have been placed in a better position. 14/230 =216 correctly applied shielding =94% Benchmark exceeded. Will continue to monitor as this is an important skill that students must always remember to do in the clinical site with patients. Reinforcing this is lab will help them to apply the skill more consistently in the clinical practice. (02/05/2016) **Faculty Assessment Leader:** Dawn Charman **Reviewer's Comments:** This is a very important skill to reinforce with the students, and while the benchmark is met, we will continue to monitor it as an SLO	**Action:** Will continue to monitor as this is an important skill that students must always remember to do in the clinical site with patients. Reinforcing this is lab will help them to apply the skill more consistently in the clinical practice. (02/05/2016) **Action Category:** Teaching Strategies **Follow-Up:** Continue to reinforce this important practice in RTEC 124 as well. Evaluate the results and compare to the first semster results for improvement. (02/05/2016)

ECC: RTEC 217:Clinical Experience 4

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #3 Cardinal Rules - Students will apply the cardinal rules of radiation safety principles on patients, self and others. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2015-16 (Fall 2015) **Input Date:** 11/08/2013	**Field Work/Internship -** Clinical Evaluation Section F 1-5 **Standard and Target for Success:** Students will score an average of 3.5 out of 4 on Clinical Evaluation-Section F: 1-5.	**Semester and Year Assessment Conducted:** 2015-16 (Fall 2015) **Standard Met? :** Standard Met Using Clinical Evaluation Section F: 1-5 with random evaluations being selected the students scored 3.6 of 4.0, meeting the benchmark. From 76 evaluations 50 were randomly selected. (01/28/2016) **Faculty Assessment Leader:** Mina Colunga **Faculty Contributing to Assessment:** Dawn Charman, Colleen McFaul, Joel Sanchez, Rosa Luna, Tino Lopez, Matt Trites, Sivi Carson, Arshad Fazalbhoy, Naveed Hussain	**Action:** Follow up with faculty to see if there is a better way to assess this or multiple ways since the scores were high. (01/28/2016) **Action Category:** SLO/PLO Assessment Process

ECC: RTEC 233:Radiographic Positioning 2

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #1 Radiographic Skull Positioning - Students will demonstrate positioning a patient in the various positions needed to produce diagnostic quality radiographs in skull imaging. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2015-16 (Fall 2015) **Input Date:** 11/08/2013	**Performance -** Students will position a simulated patient in at least two cranial positions learned this semester. The positions can be from any unit such as mandible, skull, sinus or facial bones. Students will not know the specific position ahead of time so must be able to position any type of projection. **Standard and Target for Success:** BASED ON RUBRIC: It is expected that 80% of the time, students will score 45 or above on each simulated position. Students will have two positions to perform. Rubric will be attached. **Reviewer's Comments:** The grading rubric is the same rubric used in other positioning classes within the program. Since students will be expected to perform these exams on real patients, the success bar is set high. They have been tested on these exams at the end of each unit so again, high degree of success is expected.	**Semester and Year Assessment Conducted:** 2015-16 (Fall 2015) **Standard Met? :** Standard Not Met Scores from the final simulation were tallied. There were 17 scores above 45 out of a total of 38 scores. The percentage of students scoring 45 or higher on their simulations was 55%. This does not meet the benchmark of 80%. (01/05/2016) **Faculty Assessment Leader:** Colleen McFaul **Reviewer's Comments:** compare final exam scores to unit exam scores to see if students fared better or worse. The final exam may have too much anxiety that would affect performance.	**Action:** I plan on keeping the same kind of tally on all the unit exam simulations. If 80% of the students are scoring above 45 on each of the unit exams, then I would conclude that the final exam is bringing a high level of anxiety to the students. I could break down the final exam into smaller units if that is the case. If 805 of the students are not scoring above 45 on the unit exams, then I need to arrange for more demonstrations or configure the lab differently to ensure more practice time. (01/14/2016) **Action Category:** Teaching Strategies

ECC: RTEC 244:Radiation Physics, Equipment, and Safety

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #3 Biologic Effect of Radiation Exposure - Students will describe the acceptable radiation dose limits for patients and radiation workers, and then analyze the biologic effects to humans that receive an overexposure. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2015-16 (Fall 2015) **Input Date:** 11/08/2013	**Essay/Written Assignment -** Students will work in teams of four. They will research recent literature on radiation dose and patient exposures. Each group will select a different procedure using digital or conventional fluoroscopy for exams such as ERCP, then present an oral and written report on their results. **Standard and Target for Success:** Team members must contribute equally to the assignment. Team members will evaluate each other on their participation and contribution. There is a standard rubric used to score the presentation and written report. A minimum score of 80% must be achieved to be considered a successful report.	**Semester and Year Assessment Conducted:** 2015-16 (Fall 2015) **Standard Met? :** Standard Met Fall 2015- 5 team evaluated 5 high dose fluoroscopy exams. Teams scored overall from 85% to 95%, Team members were honest in their evaluation of their peers. Overall presentations showed good preparation and were well organized and presented. Will continue with this SLO for another cycle as this is a new assessment. (02/05/2016) **Faculty Assessment Leader:** Dawn Charman	**Action:** Will continue with this SLO for another cycle as this is a new assessment. The rubric used for the evaluation assisted the students in preparation of their reports and they commented that they found it useful. (02/05/2016) **Action Category:** Teaching Strategies