# **Assessment: Course Four Column**



SPRING / SUMMER 2016

# El Camino: Course SLOs (HSA) - Radiologic Technology

# **ECC: MEDT 1:Medical Terminology**

| Course SLOs  | Assessment Method Description   | Results   | Actions                      |
|--|---|---|------------------------------|
| SLO #1 Formulate - Students will formulate medical terms by properly arranging prefixes, suffixes, word roots and combining forms. Course SLO Status: Active   | <b>Exam/Test/Quiz -</b> Students will demonstrate their knowledge of medical terms by completing a multiple choice 15 question quiz.  |   |                              |
| Course SLO Assessment Cycle: 2013-<br>14 (Spring 2014), 2016-17 (Spring<br>2017)<br>Input Date: 11/08/2013   | Standard and Target for Success: It is expected that 85% of students will score 75% or above on this SLO.  Related Documents: Unit 14 Fall 2013.doc   |   |                              |
| SLO #2 Identify Terms - Students will identify medical terms as relates to the body systems, including Greek and Latin terms.  Course SLO Status: Active Course SLO Assessment Cycle: 2014-15 (Spring 2015) Input Date: 11/08/2013 | Exam/Test/Quiz - Students will assess their knowledge of medical terms in either Greek or Latin through a fill in the blank 15 point exam. Students will provide the English definition of a medical term on 8 questions, will define 2 surgical abbreviations, and provide the Greek or Latin definition of 5 English medical terms.  Standard and Target for Success: It is expected that 85% of students will score 75% or above on this SLO |   |                              |
| SLO #3 Abbreviations - Students will list appropriate medical abbreviations  | Exam/Test/Quiz - Questions regarding abbreviations were   | Semester and Year Assessment Conducted: 2015-16 (Spring 2016) | Action: Continue to recommen |

| Course SLOs  | Assessment Method<br>Description  | Results  | Actions  |
|--|---|--|--|
| and their usage.  Course SLO Status: Active  Course SLO Assessment Cycle: 2015- 16 (Spring 2016)  Input Date: 11/08/2013 | included on weekly quizzes.  Standard and Target for Success:  80% of the students should successfully answer the abbreviation questions correctly. | Standard Met?: Standard Met 40 students took the weekly quizzes. 35 (88%) of the students were able to correctly answer all of the abbreviation questions on the quizzes. (09/08/2016) Faculty Assessment Leader: Jo Moore | utilizing the learning center. Group work has increased success, and will be recommended for those who need extra study methods. Extra points will be given for those who utilize the learning center or group work (02/22/2017)  Action Category: Teaching Strategies |

# ECC: RTEC 104:Clinical Education 1

| Course SLOs  | Assessment Method Description  | Results   | Actions                                   |
|--|--|---|---|
| SLO #1 Body Mechanic - Students will demonstrate correct principles of body mechanics in the clinical setting. Course SLO Status: Active Course SLO Assessment Cycle: 2014-15 (Summer 2015) Input Date: 11/08/2013   | Essay/Written Assignment - Students were given 10 pictures, 5 of which were poor body mechanics and 5 were proper body mechanics. They also had 3 questions related to body mechanics on an assignment. Standard and Target for Success: Students will score 75% of 100% on proper body mechanics. |   |   |
| SLO #2 Equipment - Use Clinically<br>Students will demonstrate the proper<br>use of radiographic equipment in the<br>clinical setting<br>Course SLO Status: Active<br>Course SLO Assessment Cycle: 2013-<br>14 (Summer 2014), 2016-17 (Summer<br>2017)<br>Input Date: 11/08/2013 | Performance - Clinical Evaluation<br>Section D<br>Standard and Target for Success:<br>Students will score 3.5 out of 5 in<br>section D of the Clinical Evaluation<br>form.   |   |   |
| SLO #3 Ethical Behavior - Students   | Performance - Students are   | Semester and Year Assessment Conducted: 2015-16 | <b>Action:</b> Since the grades earned by |

will demonstrate ethical behavior with patients, self and others. **Course SLO Status:** Active

Course SLO Assessment Cycle: 2015-

16 (Summer 2016) Input Date: 11/08/2013

**Performance** - Students are evaluated by clinical staff at the end of the semester. Evaluation includes assessment of ethical behavior. On the evaluation form, section A5 and section B7 will be assessed.

**Standard and Target for Success: It** is expected that students will average a total score of 81% for both these standards. This indicates that students will score an average of 3.25 out of 4 on the rubric.

Reviewer's Comments: Results will be tallied at the end of the semester

Semester and Year Assessment Conducted: 2015-16 (Summer 2016)

Standard Met?: Standard Met

Student results were tallied. Students received a grade from the Clinical Educator and from the Clinical Instructor. For 19 students, that yielded 38 data points for each section (A5 and B7)( 76 data points in total). For the section B7, students averaged a grade of 3.7 out of 4 points from both the clinical educators and the clinical instructors for a 91% For section A5, students earned 90%, scoring an average of 3.6 from the two instructors combined. For both sections, the scores were 3.65 for a 91%. This surpasses the goal of 81%. Of note, for section A5, the clinical instructors scored the students slightly lower. This section states "protection of patient privacy" (07/25/2016)

Faculty Assessment Leader: Colleen McFaul Faculty Contributing to Assessment: Dawn Charman,

Naveed Hussein

**Action:** Since the grades earned by the students is given by a cadre of instructors, staff will discuss the statements in both sections. To ensure consistency of grading, staff will discuss different criteria that they use to grade the students. After discussion, a consensus of criteria will be shared with all staff who grade the students in this area. Consider more instruction in the "patient privacy" section of Patient Care. (08/23/2017)

**Action Category:** Teaching Strategies

# ECC: RTEC 107:Clinical Experience 2

| Course SLOs  | Assessment Method<br>Description   | Results | Actions |
|--|--|---------|---------|
| SLO #1 Universal Precautions - Students will demonstrate the proper use of protective devices for patient safety during the radiographic procedures. Course SLO Status: Active   | Performance - Clinical Semester evaluation Standard and Target for Success: First year students will score 3.0 out of 4 on sections G (Radiation Protection).  |         |         |
| Course SLO Assessment Cycle: 2013-14 (Spring 2014), 2016-17 (Spring 2017) Input Date: 11/08/2013   | Exam/Test/Quiz - Clinical final that will describe scenarios in which protective devices are needed. Students will have to choose which devices are appropriate for the given scenario. Standard and Target for Success: Students will score 73% on 15 scenarios related to proper use of protective devices.  |         |         |
| SLO #2 Upper Extremity Techniques - Students will identify appropriate exposure factors on a control panel for upper extremities. Course SLO Status: Active Course SLO Assessment Cycle: 2014- 15 (Spring 2015) Input Date: 11/08/2013 | Essay/Written Assignment - A written assignment was given asking the students to identify appropriate techniques demonstrating former extremities. There were four upper extremities asking for techniques to include KVP and MAS for each.  Standard and Target for Success: Students will score an average of 73% on their section of proper techniques for upper extremities.  Reviewer's Comments: The students were given AP hand, Lateral wrist, AP forearm, and lateral finger and asked to choose appropriate KVP and MAS that meets the current criteria for DR and CR techniques.  This standard involves increasing KVP and decreasing MAS to maintain ALARA. |         |         |

# Course SLOs

# Assessment Method Description

# Results

# Actions

**SLO #3 Infection Control Methods -** Students will apply basic infection

control methods.

Course SLO Status: Active

Course SLO Assessment Cycle: 2015-

16 (Spring 2016)

**Input Date:** 11/08/2013

**Exam/Test/Quiz** - Students will be asked how to apply infection control questions on clinical final exam.

**Standard and Target for Success:** 

75% of students will be able to accurately describe the appropriate application of infection control methods in the clinical setting.

Semester and Year Assessment Conducted: 2015-16 (Spring 2016)

Standard Met?: Standard Met

On the clinical final all the question relating to infection control were averaged. The students scored an average 78% on the appropriate used of infection control methods. (09/16/2016)

Faculty Assessment Leader: Guillermina Colunga
Faculty Contributing to Assessment: Colleen McFaul

**Action:** The method of assessments was two fold; clinical coordinator observations and questions on the final exam related to appropriate infection control methods. On both criteria the students met the standard. Based on the 78% they received on the final. I think the students should be remediated on infection control methods. Add a remediation session for current students on infection control. For new students add components of infection control to the clinical course. (09/16/2017) Action Category: Teaching

Strategies

Performance - The clinical coordinator made various visits to the clinical sites and observed first year students performing examinations. The rubric was 3= applied all appropriate infection control methods, 2= used some infection control methods, but not all, 1= used inappropriate infection control methods 0= did not use infection control methods.

**Standard and Target for Success:** 

Students will use infection control methods 91% of the time.

# ECC. DTEC 100. Clinical Experience 2

| ECC: RTEC 109:Clinical Experience 3   |   |  |   |  |
|---|---|--|---|--|
| Course SLOs   | Assessment Method<br>Description  | Results  | Actions   |  |
| SLO #1 Contrast Routes - Students will identify the routes of administering contrast media for fluoroscopic examinations. Course SLO Status: Active Course SLO Assessment Cycle: 2013-14 (Summer 2014) Input Date: 11/08/2013                         | Exam/Test/Quiz - Clinical Final Exam will have questions pertaining to contrast media.  Standard and Target for Success: 73% out of 100% on the contrast media related questions. |  |   |  |
| SLO #2 Patient Care - Students will apply patient care principles while positioning patients for radiographic examinations Course SLO Status: Active Course SLO Assessment Cycle: 2013-14 (Summer 2014), 2016-17 (Summer 2017) Input Date: 11/08/2013 | Performance - Clinical Evaluation Form Standard and Target for Success: Students will score 3.5 out of 5 in Section A of the Clinical Evaluation Form                             |  |   |  |
| SLO #3 Radiation Safety Beginning -<br>Students will apply radiation safety<br>principles on patients, self, and other<br>members of the health care team.  | Journal/Log - Students keep a log of<br>all exams they perform on patients.<br>They also keep a log of all instances<br>when they need to repeat a                                | Semester and Year Assessment Conducted: 2015-16 (Summer 2016) Standard Met?: Standard Not Met Out of 19 students, 17 recorded a repeat rate under 6% | Action: Instructors will need to monitor the repeat log records.  They will need to encourage stude to be accurate and honest about |  |

**Course SLO Status:** Active

Course SLO Assessment Cycle: 2015-16 (Summer 2016)

**Input Date:** 11/08/2013

projection. One method of maintaining radiation safety so to keep the number of repeated projections to a minimum. Students are applying good radiation principles when the repeat rate is kept very low.

Standard and Target for Success: For 1st years students in RTEC109, the repeat rate logged by 100% students should be less than 6% of their total exams for the month.

Reviewer's Comments: The reliability of this statistic is dependent on the accuracy of

which meets the goal for those students. However, 2 students were at 6% or higher (6% and 6.1%). Both students are assigned to the same clinical site where the patient load is high. In this reviewer's opinion, the students that did not meet the goal show better quality exams that several students whose repeat rate was very low. This possibly could be reflected by poor record-keeping on the student's part. It could also reflect the reticent behavior of the poorer performing students. If they step back and only do exams they are not challenged on, then their repeat rate may be lower. The reverse could be true for more confident students. (07/25/2016)

Faculty Assessment Leader: Colleen McFaul Faculty Contributing to Assessment: Dawn Charman,

Naveed Hussein

ents their repeats. Instructors can also work with the staff technologists since they have more contact with students on their repeat projections. Staff can also consider correlating the repeat rate with Section G on the clinical evaluation. (08/23/2017) **Action Category:** Teaching Strategies

**Action:** Instructors will need to monitor the repeat log records. They will need to encourage students to be accurate and honest about their repeats. Instructors can also work with the staff technologists

| Course SLOs | Assessment Method<br>Description  | Results  | Actions  |
|-------------|---|--|--|
|             | students' record-keeping. Some students fear reprisals if they log too many repeats. Other times, students forget to log repeat projections or the work load is too busy to log properly. | Reviewer's Comments: Consider correlating the repeat rate with the grade given on the Clinical Evaluation form Section G.  Related Documents:  Repeat log with analysis 9_19_14 and reviewed July 14_2015 Sheet1.pdf | since they have more contact with students on their repeat projections Staff can also consider correlating the repeat rate with Section G on the clinical evaluation. (08/23/2017)  Action Category: Teaching Strategies |

# ECC: RTEC 124:Radiographic Positioning 1B

# Course SLOs

SLO #1 ALARA & Shielding - Students will apply ALARA principles of radiation safety by assessing patient risk to radiation exposure during a radiographic exam, and appropriately units of instruction of (Abdomen, shield the patient during the simulated positioning lab evaluation.

**Course SLO Status:** Active Course SLO Assessment Cycle: 2015-16 (Spring 2016)

**Input Date:** 11/08/2013

# Assessment Method Description

# Presentation/Skill Demonstration -

During the on campus simulated lab evaluations, student were given 2 images to perform for each of the Chest /Shoulder, Ribs, Bony Thorax /Cervical, Thoracic, Lumbar Spine, Pelvis, Hips, Sacrum, Coccyx, SI joints/ Gastrointestinal Studies, and a Comprehensive Final exam. There were a total of 12 simulations that were evaluated for competency and radiation protection. Included in the evaluation are the requirements to ascertain possible pregnancy and the provide radiation lead shielding whenever it will not obscure the area of interest. During the exposures on the lab phantoms, radiation protection must also be provided.

### **Standard and Target for Success:**

The simulation evaluation for for RT 1223/124 is used. The class must provide radiation shielding at least 90% of the time, meaning less than 10% of the students will fail to shield during the simulations and exposures.

# Results

Semester and Year Assessment Conducted: 2015-16 (Spring 2016)

Standard Met?: Standard Met

RTEC 124 is a First year/ Second semester Radiographic Positioning course.

There were 12 simulations performed per student, 19 student N= 228 s=Students

Results are also compared to the First year, first semester

Positioning Course - RTEC 123 1st year Students will average: 10%

Simulations: ( s=students)

Number of evaluations now include exposures (N=# students x 12 Eval)

| Staatits X 12 LVa | '/          |               |       |
|-------------------|-------------|---------------|-------|
| Trend 1st yr      | RT 123      | RT 124 (ave.) |       |
| 2013 -14          | 3.2 % (21s) | 1.2%          | 2.2 % |
| (19 students)     |             |               |       |
| 2014-2015         | 2.5 % (21s) | 2.5%          | 2.5%  |
| (19 students)     |             |               |       |
| 2015-2016         | 4.0 % (21s) | 3.1%          | 2.5%  |
| (19 students)     |             |               |       |

As compared to the ave score of 5.8 % in 2013, and 4% in 2014 - Enforcing the constant practice of shielding and good collimation during all practice sessions has shown improvement in the overall results during the simulation testing in 2013-14 class & 2014-15 class. Results dropped in 2015-16 class, as there were more students overall who struggled in the class.

(09/19/2016)

Faculty Assessment Leader: Dawn Charman

# SLO #2 Radiographic Positioning -

Students will demonstrate correct positioning of patients for quality radiographic exams of the Abdomen, Thorax, Pelvis, Spine and

Performance - Simulated Lab Competency Evaluation -Students will randomly select radiographic positions from each catagory to demonstrate

# **Actions**

Action: Continue to address the importance of shielding and collimation during practice and lab simulations so students will not forget while under the stress of testing or at the clinical site. (06/09/2017)

**Action Category:** Teaching

Strategies

Radiographic Contrast studies to include: BE, UGI, IVP, Cystography and Standard and Target for Success: ERCP.

Course SLO Status: Active Course SLO Assessment Cycle: 2013-

14 (Spring 2014), 2016-17 (Spring

2017)

**Input Date:** 11/08/2013

competency

90% of the class should demonstrate a passing grade for the simulated compentency evaluations of selected radiographic positions. Two positions are randomly selected from each catagory of exams.

### **Related Documents:**

RTEC 123 Mar 6, 2013 13 14 SLO Stas RT 124.pdf RT 123 124 233 SIM EVAL & **EXPOSURE FORM 2013** (Repaired).doc

### **SLO #3 Modification for Patient**

**Condition -** Students will assess patient's condition and pathology, and then make appropriate modifications to the procedures based on their condition.

Course SLO Status: Active

Course SLO Assessment Cycle: 2014-

15 (Spring 2015)

**Input Date:** 11/08/2013

### Presentation/Skill Demonstration -

Using the grading rubric for the simulated positioning test, and radiographic phantom exposures, students will assess patient's condition and pathology and make appropriate modifications to the procedures based on their condition. The are two evaluation tools used to measure this SLO: 1) End of Semester Clinical

Evaluation Section# A 3, B3, G2 - 5 (RTEC 109 & 220) - which will measure results of both first year and second year students. 2) RT 124 Simulated Evaluation for Critically III, Peds & Geriatric patients - Section 1A-D - Patient Care For this SLO assessment cycle, the #2 evaluation tool will be used for the data, analysis and results

# **Standard and Target for Success:**

Class will average > 5/6 points possible (n= # of Students x 9 Evals)

| Course SLOs | Assessment Method<br>Description | Results | Actions |
|-------------|----------------------------------|---------|---------|
|-------------|----------------------------------|---------|---------|

# ECC: RTEC 216:Clinical Education 2

# Course SLOs Assessment Method Description Results Actions

**SLO #1 Trauma and ER -** Students will revise methods of performing a radiographic examination for trauma and emergency room patients.

Course SLO Status: Active Course SLO Assessment Cycle: 2013-14 (Summer 2014), 2016-17 (Summer 2017)

Input Date: 11/08/2013

• •

### SLO #2 Radiographic Analysis -

Students will evaluate radiographic images and make appropriate changes when necessary. **Course SLO Status:** Active

Course SLO Assessment Cycle: 2014-

15 (Summer 2015) Input Date: 11/08/2013 Case Study - Students will be presented with two case studies in which they must revise the method to perform the examination for patients who are trauma and ER patients.

**Standard and Target for Success:** Students will score 80% out of 100 on the two case scenarios.

**Case Study** - Students will be presented with 3 radiographs that are not diagnostic. Students will need to describe the changes needed to render the images diagnostic.

# **Standard and Target for Success:**

Students will correctly evaluate and make appropriate changes on the radiographs scoring 75% out of 100%

### SLO #3 Radiation Protection -

Students will apply ALARA (as low as reasonably achievable) radiation safety principles on patients, self and other members of the health care team.

Course SLO Status: Active
Course SLO Assessment Cycle: 2015-

16 (Summer 2016) **Input Date:** 11/08/2013

Performance - Students are evaluated by the clinical staff at the end of each semester. The portion of the evaluation indicating assessment of Radiation Protection has 4 statements (section F, #1-5, see Related Documents, Clinical Evaluation).

# **Standard and Target for Success:**

Students will score an average of 81% or higher for the entire section. This means students will need to score 3.25 or higher on the scale of 4.

**Reviewer's Comments:** Results will be tallied at the end of the semester.

**Semester and Year Assessment Conducted:** 2015-16 (Summer 2016)

Standard Met?: Standard Met

Data was compiled at the end of the semester. Scores were recorded by both the clinical instructor and the clinical educator. For 19 students, 5 statements each with 2 grades yields 190 data points. This is more than enough data to assess the objective. The standard was met. The overall average earned by the students was 92.5% or 3.7. In two categories, clinical instructors scored all students 4 points. The categories were "protection of patients" and "protection of self and staff". Students were scored lowest by the clinical educators in one of those same categories. This appears to be a discrepancy in grading evaluation. Another interesting note is that statement 5 was not in

Action: Since the grades earned by the students is given by a cadre of instructors, staff will discuss the statements in both sections. To ensure consistency of grading, staff will discuss different criteria that they use to grade the students. After discussion, a consensus of criteria will be shared with all staff who grade the students in this area. (08/23/2016) (08/23/2017)

Action Category: Teaching

Strategies

| Course SLOs | Assessment Method<br>Description | Results  | Actions |
|-------------|----------------------------------|--|---------|
|             |                                  | complete compliance as it should be. Statement 5 is "radiation monitor used appropriately". (07/25/2016) Faculty Assessment Leader: Colleen McFaul Faculty Contributing to Assessment: Dawn Charman, Naveed Hussein Reviewer's Comments: Clinical Instructors observe students on a daily basis whereas clinical educators observe students on a weekly basis. This may be the reason for the grading discrepancy. |         |

Related Documents: Clinical\_Eval\_15doc (1).doc

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# ECC: RTEC 218:Clinical Experience 5

| Course SLOs  | Assessment Method Description  | Results   | Actions  |
|--|--|---|--|
| SLO #1 Adaptation in Clinical -<br>Students will adapt to changes in<br>varying clinical situations.<br>Course SLO Status: Active<br>Course SLO Assessment Cycle: 2014-<br>15 (Spring 2015)<br>Input Date: 11/08/2013  | Case Study - Two case studies were presented to the students in which the circumstances require 7 modifications for the condition of the patient.  Standard and Target for Success: Students will demonstrate 100% of the students will score 75% in successful adaptation for the condition of the patient. |   |  |
| SLO #2 Contrast Precautions - Students will compare and contrast the precautions, use and handling associated with contrast agents. Course SLO Status: Active Course SLO Assessment Cycle: 2013- 14 (Spring 2014), 2016-17 (Spring 2017) Input Date: 11/08/2013      | Exam/Test/Quiz - Clinical Final<br>Standard and Target for Success:<br>73% on 15 questions related to<br>precautions, use and handling of<br>contrast agents.  |   |  |
| SLO #3 ALARA - Students will apply<br>ALARA radiation safety principles on<br>patients, self and others *ALARA = As<br>Low As Reasonably Achievable<br>Course SLO Status: Active<br>Course SLO Assessment Cycle: 2015-<br>16 (Spring 2016)<br>Input Date: 11/08/2013 | Field Work/Internship - Clinical performance evaluation section F questions 1-5. Standard and Target for Success: Students will score 3.5 out of 4 on radiation safety principles (ALARA).   |   |  |
|  | Performance - Clinical evaluation tool radiation protection section F. Standard and Target for Success: Students will score an average of 3.0 on section F.  | Semester and Year Assessment Conducted: 2015-16 (Spring 2016)  Standard Met?: Standard Met  Students scored an average of 3.5 on section F which encompasses radiation protection and ALARA. (09/16/2016)  Faculty Assessment Leader: Guillermina Colunga | Action: Review different methods of assessment. The clinical instructors are scoring the students too high when compared to the clinical educators assessment. Clinical coordinator will go out to sites to d random spot checks and establish a rubric to verify that radiation |

do rubric to verify that radiation protection results are accurate. (09/16/2017)

Action Category: SLO/PLO

| Course SLOs | Assessment Method<br>Description | Results | Actions |
|-------------|----------------------------------|---------|---------|
|-------------|----------------------------------|---------|---------|

**Assessment Process** 

# **ECC: RTEC 220:Clinical Experience 6**

# Course SLOs Assessment Method Description SLO #1 Effective Communication Students will demonstrate effective communication in written, oral and non-verbal communication with patients, family and hospital Actions Performance - Clinical Evaluation form Sections A: 1-2, B: 1-8 and E. Standard and Target for Success: Students will score 3.5 out of 5 in the sections named above.

Course SLO Status: Active Course SLO Assessment Cycle: 2013-14 (Summer 2014), 2016-17 (Summer

2017)

**Input Date:** 11/08/2013

SLO #2 Radiation Safety Advanced -

Students will apply ALARA (as low as reasonably achievable) radiation safety principles on patients, self and other members of health care team.

Course SLO Status: Active

Course SLO Assessment Cycle: 2015-

16 (Summer 2016) **Input Date:** 11/08/2013

Journal/Log - Students keep a log of all exams they perform on patients. They also keep a log of all instances when they need to repeat a projection. One method of maintaining radiation safety so to keep the number of repeated projections to a minimum. Students are applying good radiation principles when the repeat rate is kept very low.

Standard and Target for Success: For 2nd years students in RTEC220, the repeat rate logged by the students should be less than 3% of their total exams for the month.

Reviewer's Comments: Results will be tallied during the month of July since that is the only complete month during the summer semester. The reliability of this statistic is dependent on the accuracy of students' record-keeping. Some students fear reprisals if they log too many repeats. Other times, students forget to log repeat or the work load is too busy to log properly.

Semester and Year Assessment Conducted: 2015-16 (Summer 2016)

Standard Met?: Standard Not Met

Out of 19 students, 16 recorded a repeat rate under 3% which meets the goal for those students. However, 3 students were at 3% or higher (3%, 3% and 4%). Two of the students are assigned to the same clinical site where the patient load is high. In this reviewer's opinion, the students that did not meet the goal show better quality exams that several students whose repeat rate was very low. This possibly could be reflected by poor record-keeping on the student's part. It could also reflect the reticent behavior of the poorer performing students. If they step back and only do exams they are not challenged on, then their repeat rate may be lower. The reverse could be true for more confident students. (07/25/2016)

Faculty Assessment Leader: Colleen McFaul

Faculty Contributing to Assessment: Dawn Charman,

Naveed Hussein

**Reviewer's Comments:** Consider correlating the repeat rate with the grade given on the Clinical Evaluation form Section G.

**Related Documents:** 

Repeat log with analysis 9\_19\_14 and reviewed July 14\_2015 Sheet1.pdf

Action: Instructors will need to monitor the repeat log records. They will need to encourage students to be accurate and honest about their repeats. Instructors can also work with the staff technologists since they have more contact with students on their repeat projections. Staff can also consider correlating the repeat rate with Section G on the clinical evaluation. (08/23/2017)

Action Category: Teaching

Strategies

# SLO #3 Adapt to PT Condition -

Students will assess patient's condition and make appropriate modifications to the examination based on their condition.

Course SLO Status: Active Course SLO Assessment Cycle: 2014-

15 (Summer 2015) Input Date: 11/08/2013 **Field Work/Internship** - A clinical evaluation of the students abilities is was done, Section A was related to patient care and appropriate modifications based on patients' condition was used.

**Standard and Target for Success:** 

75% out of 100% in Section A of the

clinical evaluation

# ECC: RTEC 255:Advanced Imaging and Special Procedures

### Assessment Method Course SLOs Results **Actions** Description **SLO #1 Radiographic Special Essay/Written Assignment -**Semester and Year Assessment Conducted: 2015-16 Action: Continue to follow using new Procedures - Students will analyze Students will demonstrate good (Spring 2016) rubric. Other course will be changed Radiographic Special Procedures and Standard Met?: Standard Met communication skills through a class to first 8 weeks which should new trends in imaging modalities.nts Standard and Target for Success Students shall average for presentations. RTEC 255 students alleviate the pressure students feel will be able to research, write and their Oral Report for RT 255 - 45/50 (90%) will research a "special modality" writing two papers in one semester. give an oral presentation on a topic topic in medical imaging, then Trend 255 N= # students (06/09/2017) relating to "Special Imaging Modality" 2012 45 90% N=16 complete a written report and give Action Category: Teaching and new trends in imaging. an oral presentation according to the 2013 46 92% N = 18Strategies **Course SLO Status:** Active 2014 47 94% N = 21guidelines given to them. Course SLO Assessment Cycle: 2015-**Standard and Target for Success:** 2015 46 92% N=20 Students shall average for their Oral 16 (Spring 2016) 2016 47 96% N-19 **Input Date:** 11/08/2013 Report for RT 255 - 45/50 (90%) Students shall average for their Written Report for RT 255 -Trend 255 N= # students 180/200 (90%) 2012 45 90% N=16 Trend 255 N= # students 2013 46 92% N = 182012 45 90% N=16 94% 2014 47 N = 212013 46 90% N = 182015 46 92% N=20 2014 47 94% N = 212016 47 96% N-19 46 92% 2015 N = 20Students shall average for their 2016 47 93% N-19 Written Report for RT 255 - 180/200 (90%)The Rubric was improved in 2014 which helped students 255 N= # students Trend better understand what was expected for their reports. 2012 45 90% N=16 They also started doing group reports in another class 2013 46 90% N = 18earlier in the semester, which improved their presentation 2014 94% N = 21skills for this report.

### SLO #2 Communication Skills -

Students will demonstrate effective communication skills related to the imaging modalities and equipment used for Radiographic Special Procedures.

Course SLO Status: Active Course SLO Assessment Cycle: 2013-14 (Spring 2014), 2016-17 (Spring

# Presentation/Skill Demonstration -

46

92%

93%

N=20

N-19

2015

2016

Students will give an oral presentation on a topic they have researched related to the imaging modalities and equipment used for Radiographic Special Procedures studies.

# **Standard and Target for Success:**

Student will average a 45/50 points

(09/19/2016)

Faculty Assessment Leader: Dawn Charman

# Assessment Method Course SLOs Results Actions Description (90%) on the rubric for their 2017) communication skill during the oral Input Date: 11/08/2013 report. **Related Documents: RT 255 Assessement Oral Report** Results 2014.pdf

### **SLO #3 Radiographic Quality**

purpose of Radiographic Quality Assurance and Quality Control and relate how it affects patient care.

Course SLO Status: Active Course SLO Assessment Cycle: 2014-

15 (Spring 2015)

**Input Date:** 11/08/2013

Project - Students will work in Assurance - Students will describe the groups (teams) of 4 students to investigate one type of quality control tool, describe the purpose and how it affect quality assurance and relates to patient care. Students will give a 10 minute oral presentation to demonstrate the type of tool/equipment used and the results and outcome of the test. Their thesis, hypothesis and conclusion will also be submitted in a 2 to 3 page written report. The presentation and rubric will be graded on a 5 point rubric that totals 50 points. Students will also submit a confidential evaluation of their team members contribution in the project.

# **Standard and Target for Success:**

Each group shall average 43/50 points (86%) or 4.3/5 on the rubric scale.

Any group that scores less than 36 points (72%) will be required to repeat their presentation.

# **ECC: RTEC 91:Radiographic Pathology**

| Course SLOs   | Assessment Method Description  | Results  | Actions   |
|---|--|--|---|
| SLO #1 Pathogenesis and Etiology - Students will recall the pathogenesis and etiology of diseases commonly diagnosed with medical imaging. Course SLO Status: Active Course SLO Assessment Cycle: 2014- 15 (Spring 2015) Input Date: 11/08/2013 | Exam/Test/Quiz - Students will take exams in each system of the body that includes pathogenesis and etiology of the diseases commonly diagnosed in medical imaging.  Standard and Target for Success: Students will score 75% of 100% on the pathogenesis and etiology section of each exam throughout the semester. |  |   |
| SLO #2 Pathology Terminology - Students will define common terminology associated with the study of disease. Course SLO Status: Active Course SLO Assessment Cycle: 2015- 16 (Spring 2016) Input Date: 11/08/2013                               | Exam/Test/Quiz - Final exam with have terms common to pathology that students will define.  Standard and Target for Success: 75% of students will be able to define the common pathologic terminology.   | Semester and Year Assessment Conducted: 2015-16 (Spring 2016)  Standard Met?: Standard Met  The final exam had common pathologic terms they must be able to define. Out of 19 students the students scored an average of 85% on the final exam. (09/14/2016)  Faculty Assessment Leader: Guillermina Colunga | Action: The students have consistently scored well in this are will consider assessing new data to be explored. This will be the last yell use this for assessment. (09/16/2017)  Action Category: SLO/PLO Assessment Process  Follow-Up: I have devised new SLO for this class to replace this one. (09/16/2016) |
| SLO #3 Pathology Identification - Students will identify pathologies that are common to the various body systems. Course SLO Status: Active Course SLO Assessment Cycle: 2013-14 (Spring 2014) Input Date: 11/08/2013                           | Exam/Test/Quiz - Final Exam there will be pathologies from all body systems.  Standard and Target for Success: Students will score an average of 73% on this portion.  |  |   |

# ECC: RTEC 93:Venipuncture and Pharmacolgy for the Radiologic Technologist

| Course SLOs | Assessment Method Description | Results | Actions |
|-------------|-------------------------------|---------|---------|
|-------------|-------------------------------|---------|---------|

### SLO #1 Contrast Media Reaction -

The student will analyze the current medical history of the patient and assess the safety of the patient to receive a contrast media injection and their risk level for an adverse reaction.

check-off due at the end of semester, the instructor will to the role of the patient. They we have a stack of 3x5 cards with specific patient data on them.

Course SLO Status: Active
Course SLO Assessment Cycle: 2014-

15 (Spring 2015)

**Input Date:** 11/08/2013

**Performance -** During the skills check-off due at the end of semester, the instructor will take on the role of the patient. They will specific patient data on them. These cards will describe a scenario that indicates the kidney function level, the allergy level, contraindication of other medications and the blood thinner level. The student will ask the patient history prior to doing the venipuncture. The instructor will answer the student's questions according to the scenario on the card. The student needs to assess whether to continue with the exam. consult the doctor or get further lab/blood work information. Students will do this for a butterfly venipuncture and for an angio cath venipuncture. Since there are two types of venipunctures for this class, there will be a total of 40 attempts

### **Standard and Target for Success:**

at patient assessment.

The goal is for students to correctly assess the patient on the first attempt with a 95% success rate. Since our patient's lives can be impacted, the success rate needs to be high.

### SLO #2 Contrast Dose Calculations -

Students will formulate contrast dose calculations for adult and pediatric patients

**Course SLO Status:** Active

**Project** - Students will read and participate in an interactive online module that presents sample problems calculating dose.

### Assessment Method Course SLOs Results Actions Description Afterwards, they will complete a Course SLO Assessment Cycle: 2013worksheet with dose calculation 14 (Spring 2014), 2016-17 (Spring problems. 2017) **Standard and Target for Success: Input Date:** 11/08/2013 90% of the students will successfully complete the worksheet. **SLO #3 Proper Vein Locations -**Performance - Students will Students will locate the common demonstrate a venipuncture veins and sites of injection for a procedure on a phantom arm and venipuncture injection of contrast get a "flashback" on their first media by demonstrating a "flash attempt. back" with a butterfly and angio **Standard and Target for Success:** catheter needle 80% of the students demonstrate a **Course SLO Status:** Active venipuncture procedure and get a Course SLO Assessment Cycle: 2015flashback on the first attempt, 100% 16 (Spring 2016) of the students will get a flashback **Input Date:** 11/08/2013 on their second attempt. Presentation/Skill Demonstration -**Semester and Year Assessment Conducted: 2015-16** Action: During lab practice, students Students practice on performing a (Spring 2016) will be required to demonstrate 3 successful venipuncture by getting a Standard Met?: Standard Not Met "clean" practices before attempting The standard was not met since only 47% were successful flashback on the first attempt. There another venipuncture. (06/01/2017) on their first attempts. Since this was the first time are two styles of venipuncture, a Action Category: Teaching butterfly and an angio. Students assessing this, I feel the standard was set too high. Strategies Although it is critical for students to succeed on this skill, keep track of their attempts when the practicing in lab does not always add the extra pressure they approach the instructor for competency demonstration. The of someone evaluating them. I think a better target would be 70% passing on their first time. The second of the target minimum number of attempts would was to have 100% students pass on their second attempts. be 2 (successful on 1st try for each This goal was not met either. I think the students need style). **Standard and Target for Success:** more practice before they re-attempt. They frequently Target for success is for 80% of the want to try again immediately but get flustered easily.

Related Documents:

Faculty Assessment Leader: Colleen McFaul

Faculty Contributing to Assessment: Joel Sanchez

SLO RT93 Data Spring 2016.xlsx

(07/25/2016)

students to get a "flashback" on the

first attempt and 100% of the

second attempt.

students get a flashback on the

# **ECC: RTEC A:Introduction to Radiologic Technology**

# Course SLOs Assessment Method Description SLO #1 Radiographic Protection Students will analyze different methods to reduce radiation dose to the patient in the radiology Actions Actions Actions Actions

Course SLO Status: Active Course SLO Assessment Cycle: 2013-14 (Spring 2014), 2016-17 (Spring

2017)

department.

**Input Date:** 11/08/2013

Term/Research Paper - After making an xray exposure, students write a research paper that includes a discussion of patient and technologist safety. Using the grading rubric, data was collected by collating the students scores for two areas on the grading rubric. The grading rubric allowed 4 points possible for a correct discussion of reducing patient radiation dose and 4 points possible for a correct discussion of reducing technologist dose. In three sections of RTEC-A, 10 students were selected at random from each section. Thirty students papers in total were collated for this.

Standard and Target for Success: 6.4 out of 8 point scale for the questions regarding patient radiation dose which is equialent to 80%

## SLO #2 Radiographic Quality -

Students will explain the concepts of contrast and density of a radiograph. **Course SLO Status:** Active

Course SLO Assessment Cycle: 2014-

15 (Spring 2015)

**Input Date:** 05/06/2013

Exam/Test/Quiz - Students were given a short 4 questions quiz at the end of the semester. There were two radiographs demonstrating different types of contrast and two radiographs demonstrating density. The radiographs were shown on the projector during class. Two questions addressed the contrast and two questions addressed density. This quiz was not applied to the student grades

Standard and Target for Success:

Each question is worth two points for a total of 8 points. Half credit

# Course SLOs Assessment Method Description Results Actions

close to correct. A benchmark of 81% (an average of 6.5 of 8 points) was set for the class. **Reviewer's Comments:** There are currently 3 sections of RT-A. All students quizzes were tallied in the total for a total of 39 quizzes.

could be given if the answer was

### SLO #3 Radiation in Matter -

Students will differentiate between the 5 photon interactions in matter by describing the origin of the interaction and its effect on the body.

Students will draw in all approphotons, electrons, neutrons approphotons in an x-ray/biologic at interaction. Students will also

Course SLO Status: Active Course SLO Assessment Cycle: 2015-16 (Spring 2016)

Input Date: 11/08/2013

### **Essay/Written Assignment -**

Students will draw in all appropriate photons, electrons, neutrons and protons in an x-ray/biologic atomic interaction. Students will also explain their diagrams by describing the interaction in their own words. At the end of assessment, there are 4 critical thinking questions using information demonstrated by their drawing and explanation.

# **Standard and Target for Success:**

Target for success is for 80% of the students to score at least 80% on the assignment.

Reviewer's Comments: A grading rubric broke down the points for the assignment according to the following: 1 point for following directions, 5 points for correctly drawing the 5 interactions, 5 points for correctly explaining the interaction and 4 points for the questions at the end.

**Semester and Year Assessment Conducted:** 2015-16 (Spring 2016)

Standard Met?: Standard Met

Overall, the average grade for this assignment was an 84% for all students. This does meets the benchmark. However upon further review, I noticed that the students were able to draw the diagrams successfully and explain the diagrams successfully but they did not answer the critical thinking questions successfully. The students averaged 86% on the drawing of the diagrams and 90% on their explanation. However, they scored a lowly 56% on the questions. The students need to be able to use the information to apply to radiation safety. (03/09/2016)

Faculty Assessment Leader: Colleen McFaul

Action: Teachers will need to emphasize how we use this information about the interactions to ensure patient safety. This can be done during lectures. (06/16/2017)

Action Category: Teaching

**Strategies** 

**Follow-Up:** Instructors will meet to discuss the progress on students for this concept. (02/13/2017)