

July 1, 2019- June 29, 2020 ASSESSMENT OF STUDENT LEARNING OUTCOMES (GOALS #1 – 4)

Goal #1: At the end of the program, student should be able to practice as a competent entry-level radiographer

OUTCOME	MEASUREMENT TOOL	BENCHMARK Based on Class Average	DATA	ACTION PLAN
1. Students will be able to accurately set technical factors for examinations	RAD203 Radiation Physics Chapters 7 & 23 Test – <i>entire test relates to accurately utilizing technical factors</i>	≥ 93% 0 – 100% scale	Average Score of 96.4%	Benchmark met. Average score increased in comparison to the last three years (90.6% 93%, 94%) Will continue to utilize measurement tool for two more cycles to see if trend continues.
	Clinical Performance Evaluation Form – Statement # 3 – <i>student accurately set kVp & mAs factors according to established protocols</i>	≥ 3.00 0 - 4.00 scale	Average Score of 3.57	5 th year using this measurement tool and meeting benchmark. However, this year's score is lower than last. It is noted that the evaluation numbers for the collection term were down due to COVID – 19 which may have impacted the score. Would like to utilize the tool for 2 more cycle to see if a trend can be established continues.
2. Students will be able to provide quality patient care	Clinical Performance Evaluation – Statement #2 – Positioning: <i>student correctly positioned patients according to established protocols</i>	≥ 3.00 0 - 4.00 scale	Average Score of 3.67	Benchmark met. 2 nd year using this measurement tool (2019 -3.78). Will continue to utilize to determine trend.
	Clinical Performance Evaluation – Statement # 4 – Patient Care: <i>perceives patient needs, friendly, makes wise decisions, incorporates legal & ethical behaviors into clinical practice</i>	≥ 3 0 - 4.00 scale	Average Score of 3.7	Benchmark met. Score is above benchmark with same score as last year. (2019 – 3.7) Trend is holding steady so we will use this measurement tool for one more cycle and then reevaluate the measurement tools relevance. It is noted that the evaluation numbers for the collection term were down due to COVID – 19 which may have impacted the score.

Goal #2: At the end of the program, student should be able to integrate critical thinking and problem solving abilities

OUTCOME	MEASUREMENT TOOL	BENCHMARK Based on Class Average	DATA	ACTION PLAN
1. Students will be able to distinguish between a “difficult patient” and utilizing true critical thinking/problem solving skills	RAD220 – Critical Thinking in the Radiologic Sciences – Portfolio Project Rubric	≥ 93% 0 – 100% scale	Average Score of 96.1%	Benchmark was met but scores decreased over last year (2019- 97.5, 2018 – 96.8). Will continue using tool for two more cycles to see if trend is established.
	RAD220 – Critical Thinking in the Radiologic Sciences – Section 8 of the Critical Thinking Test Lab Grade Sheet – <i>Accurately adapted from “normal” textbook routine.</i>	≥8 0 - 10.0 scale	Average Score of 8.57	Data indicated another drop in score from last year (2019 – 9, 2018 - 9.14), however, the benchmark was met. Downward trend has been noticed. Will discuss ways to address downward trend with instructor. Will continue to use measurement tool for 2 more cycles to see if a trend is reversed.
2. Students will be able to demonstrate critical thinking/problem solving skills in the clinical setting.	Clinical Performance Evaluation – Statement # 6 – Critical Thinking/Problem Solving: <i>Adapts to a variety of circumstances; readily accepts change; determines correct technical factors based on patient condition (routine v. trauma); critiques images for diagnostic quality; systematic & logical</i>	≥ 3 0 - 4.00 scale	Average Score of 3.48	Met benchmark and observed a slight increase in score (2019 – 3.45, 2018 – 3.03, 2017 – 3.19). Will continue to use measurement tool for 1 more cycles to evaluate outcomes and trend.
	Clinical Management Evaluation – Statement # 8 – <i>student adapts to variety of circumstances. Able to adjust positioning techniques for more difficult patients</i>	≥ 3.75 0 - 4.00 scale	Average Score of 3.88	4 th year of using this measurement tool and reaching benchmark. Saw a slight increase in average score from last year (2019 – 3.85, 2018 – 3.87, 2017 – 3.86). It is noted that the evaluation numbers for the collection term were down due to COVID – 19 which may have impacted the score. Will continue to watch at least 1 more year to see if trend reverses again trend.

Goal #3: At the end of the program, students should be able to communicate effectively

OUTCOME	MEASUREMENT TOOL	BENCHMARK Based on Class Average	DATA	ACTION PLAN
<p>1. Students will be able to effectively communicate through oral methods</p>	<p>Clinical Performance Evaluation – Statement # 7 – <i>Utilizes AIDET and exhibits positive verbal and non-verbal interaction and communication between patients, their families & healthcare team</i></p>	<p>≥ 3.00 0 - 4.00 scale</p>	<p>Average Score of 3.58</p>	<p>Benchmark met. After more focus on AIDET in labs we saw an increase from last year’s score and the downward trend (2017 – 3.70, 2018-3.48, 2019 – 3.45) has reversed. We will continue to use this tool for two more cycles to see if an increasing trend is established. It is noted that the evaluation numbers for the collection term were down due to COVID – 19 which may have impacted the score.</p>
	<p>RAD220 Critical Thinking in the Radiologic Sciences – Oral Presentation of “Critical Thinking Portfolio” <i>Students present to the class a scenario in which critical thinking skills were utilized – students present information in a clear and informative manner.</i></p>	<p>≥ 42 pts 0 - 50 pt scale</p>	<p>Average Score of 46.2</p>	<p>Benchmark met. Significant drop in score from previous years (2019 – 49, 2018 – 49.3). No changes in rubric so will continue to utilize tool to monitor trend .</p>
<p>2. Students will be able to effectively communicate through written methods</p>	<p>Image Evaluation Portfolio – <i>3rd Semester Students complete a written image evaluation portfolio</i></p>	<p>≥ 110 pts 0 – 120 pt scale</p>	<p>Average Score of 117.95</p>	<p>Benchmark met. 1st year using this measurement tool.</p>
	<p>RAD203 – Radiographic Pathology – Radiographic Pathology Portfolio – <i>Spelling and Other Grammatical Errors Section</i></p>	<p>≥ 93% 0 – 100% scale</p>	<p>Average Score of 97.8%</p>	<p>Benchmark met. An increase in score was observed from last year (2019 – 94%, 2018 – 100%). Will continue to use this tool for at least 2 more cycles to determine trend.</p>

Goal #4: At the end of the program, students should be able to demonstrate and evaluate professional development

OUTCOME	MEASUREMENT TOOL	BENCHMARK Based on Class Average	DATA	ACTION PLAN
1. Students will research professionalism to develop a Personal Philosophy of Professionalism	RAD 216 Professional Development – Professional Resume	≥ 42 0 - 50 scale	Average Score of 49.6	2 nd time using this measurement tool and benchmark was met (2019 – 50). Will continue to use this tool for at least 2 more cycles to determine a trend.
	RAD 216 Professional Development - Content Section of Professional Development Research Paper	≥ 4.00 0 - 5.00 scale	Average Score of 5.0	4 th year meeting benchmark and score is holding at the top of the scale. Measurement tool will be retired for the 2020 – 2021 cycle.
2. Students will model professionalism in the clinical arena	Clinical Performance Evaluation – Statement #10: Rank student’s performance related to Professionalism (i.e., FOCUS values, honesty, integrity, self-confidence, reliability, dependability, non-judgmental behavior, accountability)	≥ 3.00 0 - 4.00 scale	Average Score of 4.0	Benchmark was met; however, there was a substantial jump in score from last year (2019 – 3.76, 2018 – 3.93). It is noted that the evaluation numbers for the collection term were down due to COVID – 19 which may have impacted the score. Will continue to use for at least 2 more cycles to evaluate for a trend.
	Clinical Management Evaluation – Statement #3 - Clinical Quality Procedures meet high standards of accuracy, thoroughness, professionalism and demonstrates logical sequence in performing exams.	≥ 3.75 0 - 4.00 scale	Average Score of 3.88	Benchmark met. 3 rd year using this measurement tool and the score slightly higher this year (2019 – 3.83, 2018 - 3.83). It is noted that the evaluation numbers for the collection term were down due to COVID – 19 which may have impacted the score. We will continue to use for 2 more cycles. If trend shows an increase the Assessment Committee will look for a possible replacement measurement tool for the 2021 – 2022 cycle.

Goal #5: At the end of the program, students should be able to meet the needs of the community (Program Effectiveness)

OUTCOME	MEASUREMENT TOOL	BENCHMARK	DATA	ACTION PLAN
<p>1. Students entering the program will complete the program</p>	<p>Student records</p>	<p>≥ 80% Graduation Rate</p>	<p>78% 7 of 9 Students</p>	<p>Benchmark not met. As this is JRCERT required data, no change will be made to this measurement tool. Because enrollment numbers are lower than many programs it doesn't take much for our percentage to drop below 80%. We have tools in place to help students prepare for the rigors of our program, information sessions and job shadowing are just a couple of examples. In the future we will monitor this to see if there is a trend in the number of students lost.</p> <p>5-Year Graduation Rate 83% (38 of 46)</p>
<p>2. Graduates will pass the ARRT Board Examination on the first attempt</p>	<p>ARRT Board pass rate</p>	<p>100%</p>	<p>100% 7 of 7 Students</p>	<p>All of the graduates who took the exam passed on the first attempt which gives the program a 5-year Average Pass Rate of 100% (37 out of 37)</p>
<p>3. Graduates will be satisfied with the educational program</p>	<p>Exit Evaluation – Question #8 – <i>Would you recommend the program to other persons interested in pursuing an education in radiology?</i></p>	<p>100% of those completing the survey respond “Yes”</p>	<p>100% 5 of 5 Graduates</p>	<p>Benchmark met. Last year one student skipped this question. This year all who completed the survey responded “Yes”. We will continue to utilize this measurement tool to gauge student satisfaction with the program.</p>
	<p>Graduate Survey (sent 12 months after graduation) – Statement # 3 – <i>Do you believe your education prepared you to assume the role of an entry-level radiographer?</i></p>	<p>100% of those completing the survey respond “Yes”</p>	<p>100% 5 of 5 Graduates (5 of the 8 Graduates completed the survey)</p>	<p>All graduates completing the survey indicated “Yes”. Will continue to utilize this measurement tool as it provides valuable data in relation to student satisfaction with the program.</p>

OUTCOME	MEASUREMENT TOOL	BENCHMARK	DATA	ACTION PLAN
4. Employers will hire UPH-DM graduates	Employer Survey – Question # 4 – <i>If you had any current openings, would you consider hiring another graduate from our program?</i>	100% of those completing the survey respond “Yes”	100% 2 of 2 (2 of 4 surveys completed)	4 of the 5 graduates who completed the survey gave permission to survey their employer. It has been helpful that students have been giving reliable information to contact employers. We are seeing a positive trend. Will continue to use this tool.
5. Of those seeking employment, graduates will be employed within 12 months of graduation	Graduate Survey – Question # 1 – <i>Are you currently employed in radiography? If no, please explain (i.e., lack of job opportunities, attending educational program, etc.)</i>	100% of those seeking employment respond “Yes”	100% 5 of 5 Graduates (5 of the 8 Graduates completed the survey)	5 th year in a row of having 100% job placement. Although only 5 of the 8 responded, it is known through other correspondence that 2 other graduates are working in general radiography. One graduate elected to not pursue a job in the field. This is JRCERT required data, no change will be made with this Measurement Tool. The Program has a 5-Year Employment Rate of 100% (37 out of 37)

Changes Made from last year:

- Goal #3 Outcome #2 Measurement Tool #1 was changed after last year, this is the first year using the Image Eval portfolio as a measurement tool

Downward trend (need to watch):

-Goal #2 Outcome #1 Measurement Tool #2

Scores were down will address with course instructor. Will emphasize adjustment from the normal routine in critical thinking lab time. Review advanced positioning (Fuchs Method, Danelius Miller, Transthorasic lateral, ect.).

Action Plans for benchmarks not met:

- Goal #5 Outcome #1

Because enrollment numbers are lower than many programs it doesn't take much for our percentage to drop below 80%. We have tools in place to help students prepare for the rigors of our program, information sessions and job shadowing are just a couple of examples. In the future we will monitor this to see if there is a trend in the number of students lost.

Future changes:

- Will discuss with assessment committee changing the benchmark on select measurement tools to 3.75.
- Goal #4 Outcome #1 Measurement Tool #2 will discuss with assessment committee finding new measurement tool.
- Will evaluate and discuss with assessment committee new JRCERT Standards and incorporate needed adjustments to Assessment Plan for 2020 – 20201.