Indiana University Kokomo Radiography Program

Program Effectiveness 2005 – 2008 per JRCERT Standard 1.7

The Joint Review Committee on Education in Radiologic Technology (JRCERT) requires a minimum benchmark of 75% in each of the following areas based on a rolling five year average.

1. ARRT Certification Pass rate: JRCERT minimum 75% pass rate on 1 st attempt Benchmark = 90%	Below expectations – less than 75% 1 st attempt pass rate	Meets expectations – between 75% and 90% of 1 st time students pass on 1 st attempt	Exceeds expectations- 91% - 100% pass on 1 st attempt
Graduating classes 2005 – 2008 * program has only 4 years of data (45 total)	2% (1 out of 45 Graduates)	0%	98% (44 out of 45 graduates)
			Program exceeds expectation
2. Job Placement Rate for Radiography graduates seeking employment within six months of graduation. JRCERT minimum Benchmark = 80%	Below expectations – less than 75% job placement within six months	Meets expectations – between 75% and 90% job placement within six month of graduation	Exceeds expectations- 91% - 100% job placement within six months of graduation
Graduating classes 2005 – 2008 * program has only 4 years of data (43 total)	0%	0%	100%
			Program exceeds expectation
3. Graduation rate: JRCERT bench mark = 75% of those beginning the program	Below expectations – less than 79% graduation rate of admitted students	Meets expectations – between 80% and 90% of admitted students graduate	Exceeds expectations- 91% - 100% of admitted students graduate
Graduating classes 2005 – 2008 * program has only 4 years of data (45 Total)	0%	0%	100%
			Program exceeds expectation
4. Program Retention rate JRCERT benchmark = 75%. The program benchmark is 80%	Below Expectations – less than 80% retention of admitted students	Meets expectations – between 80% and 90% of retention of admitted students	Exceeds expectations- 91% - 100% retention admitted students
Graduating classes 2005 – 2008 * program has only 4 years of data (72 total admits)	0%	5.5% (4 of 72 students dropped from program before graduation)	94.5% (45 of 48 students admitted graduated on time. There are still 23 of 24 admitted still in program core courses)
			Program exceeds expectation

Assessment Results: The program exceeds expectation of the JRCERT in all areas of program effectiveness. Will continue to monitor all aspects of program effectiveness for rolling five year average per JRCERT requirements

Analysis: The program has only four years of data due to having only four graduating classes (2005 – 2008). I will update and monitor these important program effectiveness and report to Joint Review Committee on Education in Radiologic Technology (JRCERT) accordingly on an annual basis.

The following data are shared semi-annually with our Radiologic Science Advisory Committee. The committee meets in yearly in February and October. The results are also provided to the JRCERT via our annual report.

1. Results: ARRT exam section "A" radiation Protection

Program Average score	<u> 2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	Moving average
	91.7	89.3	89.9	84.7	88.9
USA Average Score	<u>2005</u>	<u>2006</u>	2007	2008	Moving average
-	84.8	84.7	84.7	84.6	84.7

Percentile rank of IU Kokomo Radiography compared to total U.S. Programs:

<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	
96%	88%	91%	58%	

Results: by ARRT certification examination section category:

	<u>2005</u>	<u>2006</u>	<u>2007 </u>	<u>2008</u>	Moving average
IU Kokomo	*A. 9.1	A. 9.4	A. 9.1	A. 8.8	A. 9.1
	*B. 9.2	B. 8.7	B. 8.9	B. 7.9	B. 8.7
	*C. 9.0	C. 9.0	C. 8.9	C. 8.7	C. 8.9
	*D. 9.2	D. 8.7	D. 8.6	D. 8.0	D. 8.6
	*E. 9.4	E. 9.5	E. 9.4	E. 9.1	E. 9.4
USA	2005	2006	2007_	2008	Moving average
	*A. 8.5			A. 8.6	A. 8.6
		A. 8.7 B. 8.4	A. 8.7 B. 8.3		
	*A. 8.5	A. 8.7	A. 8.7	A. 8.6	A. 8.6
	*A. 8.5 *B. 8.4	A. 8.7 B. 8.4	A. 8.7 B. 8.3	A. 8.6 B. 8.2	A. 8.6 B. 8.3

^{*}A – Radiobiology and Radiation Protection

Pass rate of ARRT national Radiography Certification examination comparing IU Kokomo to USA

<u>Year</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>
IU Kokomo	100%	100%	100%	92%
USA Cohort	89.4%	90.5%	90.8%	91%

Analysis of Results:

1. Program Average Scores:

The Indiana University Kokomo Radiography Program has had graduating students place in the top 12% of all radiography graduates taken the national ARRT examination in 3 of the program's four years of existence. The program will closely monitor the 2009 scores to see if a down-ward trend is indicated by the 2008 results or if it is an aberration from the previous three years. Based on an analysis of admission data, and the scores of the 2009 graduates on simulated registry tests, the program believes that this not a trend. The program continues to score above the national average on an absolute and percentage bases.

^{*}B - Radiation Physics, Equipment Operation, Maintenance and Quality Assurance

^{*}C – Radiographic Procedures (to include anatomy, physiology and pathology)

^{*}D – Image Production and Evaluation (Principles)

^{*}E – Patient Care and Education

2. Examination testing scores by Category:

The Indiana University Kokomo Radiography Program has maintained a moving average above the national average in all five testing categories. The program's graduates have scored better than the national average on the American Registry of Radiologic Technologist's national certification in Radiograph every year of the program's existence. The program also has exceeded the national average in each of the five tested categories. The program will continue to monitor the results and correlate didactic and clinical education with these results. The program did analyze admission criteria for 2006 and compared the average GPA and Math Science GPA with the previous three years. The average GPA's in each area did not change, but the program did find multiple uses of the F(x) policy and grade forgiveness that were not present in the first year admitted classes. The program believe the biggest contributor to the lower scores in 2008 was that four (4) of the original students chosen for the program decided not to accept into the program. This is farther into their alternate pool then the program has ever had to delve to have a full class of 12. If program finds that 2009 is the beginning of a trend, course material and admission criteria will be greater scrutinized to find opportunities to raise the program's ability to graduate students who may have a better opportunity to score above the national average. This information was provided to our program's Advisory committee at our semi-annual meeting in February 2009. They concurred with our recommendations to look into these two areas for trends and improvement.

3. Job Placement Rate:

The job placement rate for Radiography program graduates has remained positive. 100% of the Indiana University Kokomo Radiologic Science graduates who have been seeking employment have been able to find employment in radiologic positions within six months of graduation. This exceeds the JRCERT benchmark of 75%. 2008 was the first time that it took almost six months for all job seeking graduates to find employment. Previously graduates were able to find employment within four months of graduates. These graduates were offered employment opportunities outside our service area, but they chose not to accept these positions. The 2009 graduates are being advised with the economic slow-down that employment in the IU Kokomo service area may be more problematic and they should consider employment outside this region. National, there still seems to be more openings, than graduates.

4. Graduation Rate:

The program is extremely proud that every student retained after the first year, has went on to graduate with the 22 months of the program. This rate exceeds the national standard set the JRCERT of 75%.

5. Retention Rate:

The program's retention rate of 94.5% exceeds the JRCERT benchmark of 75%. Although the program believes this is an acceptable rate the program did seek input from their advisory committee to help maintain or increase this rate. The committee suggested that all applicants spend at least eight of the required sixteen observation hours at a hospital. After reviewing the records of the four students who did not complete the program, three had not visited a hospital for at least eight of their sixteen required observation hours. The advisory committee and program faculty believes this will provide a more realistic view of what the program student's will encounter and what the "average" program graduate can expect in the job market. The program will monitor this change and provide updates to the advisory committee yearly.

Program Effectiveness COMPLETION RATE

tcome: at least 80% of admitted students will graduate from the program on time (within 22 months of admission)				
Year Admitted	Number admitted	Graduated	Not Graduated	
2003	12	11	1	
2004	12	11	1	
2005	12	11	1	
2006	12	12	0	

2007	12	12	12
2008	12	NA	1
2009	12	NA	NA

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