

# RADT A177: CLINICAL LAB 4

| Item                               | Value                           |
|------------------------------------|---------------------------------|
| Curriculum Committee Approval Date | 02/09/2022                      |
| Top Code                           | 122500 - Radiologic Technology  |
| Units                              | 4.5 Total Units                 |
| Hours                              | 256 Total Hours (Lab Hours 256) |
| Total Outside of Class Hours       | 0                               |
| Course Credit Status               | Credit: Degree Applicable (D)   |
| Material Fee                       | No                              |
| Basic Skills                       | Not Basic Skills (N)            |
| Repeatable                         | No                              |
| Grading Policy                     | Standard Letter (S)             |

## Course Description

This course consists of clinical lab experience and the application of radiologic technology skills. The course utilizes a competency-based curriculum emphasizing radiologic technology skill development. Radiographic skills to be emphasized will be routine skull radiography, portable radiography, minor special procedures, and introduction to pediatric and trauma radiography. PREREQUISITE: Acceptance into the OCC Radiologic Technology Program (Cohort restriction). Transfer Credit: CSU.

## Course Level Student Learning Outcome(s)

1. Apply positioning skills learned to performing portable radiographic and surgical exams in the clinical setting.
2. Perform 80% of the radiographic exams as listed in the First Year Clinical Practicum.
3. Demonstrate appropriate patient care skills, adherence to radiation protection practices, and exhibit professional behaviors.
4. Recognize common image errors for the required exams.

## Course Objectives

- I \* 1. Manage image repeat rate log.
- II \* 2. Perform 85% or more of first year competency list under direct supervision
- III \* 3. Perform with direct supervision routine cranial and torso exams.
- IV \*\* 4. Practice principles of professional ethics and adhere to standards of patient care protocols.
- V \* 5. Participate as a team member in minor contrast procedures
- VI \* 6. Participate in orientation to portable procedures and other non-routine radiographic exams.
- VII \* 7. Identify basic protocols required to perform radiographic exams in surgery.
- VIII \* 8. Identify principle guidelines required to perform pediatric radiography.
- IX \*\* 9. Demonstrate increased professional growth as indicated by less direct supervision in the performance of previously identified radiographic exams.
- X \*\* 10. Evaluate image quality and analyze radiographs with 80% accuracy.
- XI \* 11. Identify correct patient preparation needed for routine radiographic exams.

- XII \* 12. Demonstrate the ability to work with special needs patient populations.
- XIII \* 13. Arrange and organize all clinical training documentation – for submission and age specific criteria.
- XIV SCAN SKILLS IDENTIFICATION
- XV \* Competencies
- XVI \*\* Foundation Skills

## Lecture Content

Course has Lab content only

## Lab Content

Clinical training: Continue with previous skills as outlined in RADT A176 Assignment to diagnostic radiographic exams with emphasis on routine cranial and torso exams Assignment to different work shift schedules to provide trauma and off-hours experience Continue with clinical training as specified per rotation schedule. Assignment to minor contrast procedures as available. Assignment to other non-routine radiographic exams. Trauma Specialized units and equipment Assessment of students clinical progress towards completion of end of the semester clinical objectives. Verify competencies completed Evaluate clinical schedule and revise if needed Assess clinical documentation. Expansion of clinical assignment to include the following: Orientation to portable radiography. Orientation to surgical protocols and procedures. Sterile field parameters Specialized radiographic equipment - C arm Commonly performed surgical procedures Completion of 85% of exams listed on 1st proficiency practicum Direct supervision is required until proficiency practicum indicated indirect supervision has been achieved. Introduction to pediatric exams to include principles of pediatric care and radiography Immobilization techniques Filming and technical factors Psychological approach Radiation protection Performance of routine radiographic exams with decreasing direct supervision. Demonstrate ability to perform positioning critique and analyze image formation with 80% accuracy. Maintain less than 10% film repeat rate. Complete RADT A177 clinical objectives. Assess final clinical competency list - minimum requirement is 80% completion under direct supervision of the exams. Determine final course grade by completing RT 177 objectives and evaluation of students ability in all areas identified. Verify all clinical course documentation. Review completed RADT A177 objectives with student – identify strengths and areas for improvement. Verify completion of all previous clinical objectives RADT A171 - RADT A176 – Satisfying first year program clinical requirements enabling student to enroll in 2nd year clinical courses. Determine goals for next clinical course RADT A271. Failure to complete all RADT A177 objectives will result in NON-successful completion of 1st year clinical education.

## Method(s) of Instruction

- Lab (04)
- Non-Directed Clinical (NDR)

## Instructional Techniques

1. Demonstration 2. Seminar-style lab 3. Clinical practice under direct supervision 4. Image analysis and critique 5. Return skill demonstration

## Writing Assignments

1 hour per week to complete: 1. Clinical logs - daily, weekly, monthly 2. Repeat analysis log 3. Clinical Objectives 4. Skills demonstration -

chest, abdomen5. Self evaluation6. Evaluation of clinical assignment/  
site

## **Out-of-class Assignments**

1 hour per week to complete: 1. Clinical logs - daily, weekly, monthly2.  
Repeat analysis log3. Clinical Objectives4. Skills demonstration -  
chest, abdomen5. Self evaluation6. Evaluation of clinical assignment/  
site

## **Demonstration of Critical Thinking**

Performance evaluation sheet-minimum requirement 4 observed  
and evaluated. Clinical practicum proficiency exams identified in  
course outline. Completion of clinical training documentation utilizing  
forms from student clinical handbook. RADT A177 clinical objectives.  
Attendance and appearance. Clinical participation. Completion of  
required clinical hours.

## **Required Writing, Problem Solving, Skills Demonstration**

Clinical logs - daily, weekly, monthly Repeat analysis log RADT A177  
clinical objectives Skills demonstration of identified procedures Self  
evaluation Evaluation of clinical assignment/site

## **Eligible Disciplines**

Radiological technology: Any bachelors degree and two years of  
professional experience, or any associate degree and six years of  
professional experience. Radiological technology: Any bachelors degree  
and two years of professional experience, or any associate degree and six  
years of professional experience.

## **Textbooks Resources**

1. Required Holt, K. , Sachs, L.,. Student Clinical Manual,, ed. Orange  
Coast College Bookstore,, 2022 Rationale: - 2. Required Lampignano, J.  
P., Kendrick, L. E. . Bontragers Textbook of Radiographic Positioning and  
Related Anatomy,, 10th ed. Missouri: Elsevier/Mosby, 2020

## **Other Resources**

1. Radiology department procedure manual