Western Technical College

10526189 Radiographic Pathology

Course Outcome Summary

Course Information

Description: Prepares radiography students to determine the basic radiographic manifestations of pathological conditions. Students classify trauma related to site, complications, and prognosis and locate the radiographic appearance of pathologies.

Career Cluster: Health Science

Instructional Level: Associate Degree Courses

Total Credits: 1

Textbooks


Success Abilities

1. Demonstrate ability to think critically.

2. Transfer social and natural science theories into practical applications.

Course Competencies

1. Determine the basic radiographic manifestations of pathological conditions and their relevance to radiological procedures

   Assessment Strategies
   1.1. in an oral, written, or graphic response to questions and or scenarios

   Learning Objectives
   1.a. Classify the more common diseases in terms of their attenuation of the radiographic beam
   1.b. Recognize technical changes necessitated by underlying pathologies.
   1.c. Define basic pathological terms

2. Compare the classifications of trauma related to site, complications, and prognosis

   Assessment Strategies
   2.1. in an oral, written, or graphic response to questions and/or scenarios

   Learning Objectives
2.a. Identify common trauma to the head with complications and prognosis of each
2.b. Identify common trauma to the skeletal system with complications and prognosis of each
2.c. Identify common trauma to the soft tissues with complications and prognosis of each
2.d. Identify common trauma to the spine with complications and prognosis of each

3. **Compare the causes and process of tissue disruption**
   Assessment Strategies
   3.1. in an oral, written, or graphic response to questions and/or scenarios

Learning Objectives
3.a. Explain different mechanics that can cause injury
3.b. Explain tissue disruption that can be caused by non-traumatic conditions

4. **Show complications connected with the repair and replacement of tissue**
   Assessment Strategies
   4.1. in an oral, written, or graphic response to questions and/or scenarios

Learning Objectives
4.a. Recognize differences in technical factors used in various stages of healing
4.b. Explain differences in procedure used with corrective devices
4.c. Explain tissue regeneration

5. **Characterize the systemic classifications of disease and radiology procedures for each type**
   Assessment Strategies
   5.1. in an oral, written, or graphic response to questions and/or scenarios

Learning Objectives
5.a. Classify pathology by body system
5.b. Match radiographic procedures to specific pathology

6. **Identify the radiographic appearance of selected pathologies**
   Assessment Strategies
   6.1. by analyzing radiographs

Learning Objectives
6.a. Recognize changes in radiographic appearance caused by various pathology
6.b. Recognize changes in radiographic quality caused by various pathology
6.c. Explain modifications in technical factors used for additive or destructive pathologies

7. **Examine the relationship of genetics to disease**
   Assessment Strategies
   7.1. in an oral, written, or graphic response to questions and/or scenarios

Learning Objectives
7.a. Describe radiographic appearance of hereditary diseases
7.b. Explain possible causes and treatments of genetic diseases
7.c. Contrast genetic versus developmental disorders