

Advanced Hematology

Course Outcome Summary

Course Information

Organization	WTCS - Wisconsin Technical College System
Developers	MLT/CLT Curriculum Alignment Team
Development Date	12/1/2002
Revised Date	12/1/2002
Course Number	10-513-130
Instructional Level	Associate Degree
Potential Hours of Instruction	54
Total Credits	2

Description

Explores mechanisms involved in the development of hematologic disorders. Emphasis is placed on laboratory techniques used to diagnose disorders and monitor treatment. CrLf

Types of Instruction

Instruction Type	Contact Hours	Credits
Classroom Presentation	18	1
On-Campus Lab	36	1

Prerequisites

Basic Hematology (10-513-120)

Exit Learning Outcomes

Program Outcomes

- A. Apply modern clinical methodologies including problem solving and troubleshooting according to predetermined criteria
- B. Perform preventative and corrective maintenance of equipment and instruments according to predetermined criteria
- C. Perform and report results of clinical laboratory tests
- D. Apply laboratory results to diagnosis of clinical conditions and/or diseases
- E. Monitor and evaluate quality control in the laboratory
- F. Practice laboratory safety and regulatory compliance

Standards

1. Methodologies for all major areas currently practiced by a modern clinical laboratory, including problem solving and troubleshooting techniques
2. Collecting, processing, and analyzing biological specimens and other substances
3. Laboratory result use in diagnosis and treatment
6. Quality assessment in the laboratory
7. Laboratory safety and regulatory compliance

8. Information processing in the clinical laboratory

Competencies

A. Perform abnormal blood smear review and cell identification

You will demonstrate your competence:

A.1. by completing a blood smear evaluation report

Your performance will be successful when:

A.1. report includes platelet estimate that agrees with assayed value

A.2. report includes WBC estimate that agrees with assayed value

A.3. report includes RBC morphology that agrees with assayed value

A.4. report includes WBC differential results that are within 95% confidence limits

A.5. report includes comments relevant to abnormalities noted

A.6. report includes explanation of possible causes for abnormalities noted

A.7. report includes proper sample identification

A.8. report includes results with proper units

A.9. report is neatly hand written

B. Correlate hematology concepts and procedures with disorders of decreased RBC production

You will demonstrate your competence:

B.1. by preparing written responses to case studies

Your performance will be successful when:

B.1. each case study response demonstrates a thorough understanding of relevant aspects of the caseCrLf

B.2. each case study response outlines in detail the decision selected by the learner

B.3. each case study response includes an explanation of why the decision was selected

B.4. each case study response is supported by relevant evidence

B.5. each case study response is well organized

B.6. each case study response evidences correct grammar, punctuation, and spelling

C. Correlate hematology concepts and procedures with increased RBC destruction

You will demonstrate your competence:

C.1. by preparing written responses to case studies

Your performance will be successful when:

C.1. each case study response demonstrates a thorough understanding of relevant aspects of the caseCrLf

C.2. each case study response outlines in detail the decision selected by the learner

C.3. each case study response includes an explanation of why the decision was selected

C.4. each case study response is supported by relevant evidence

C.5. each case study response is well organized

C.6. each case study response evidences correct grammar, punctuation, and spelling

D. Correlate hematology concepts and procedures with non-malignant disorders of leukocytes

You will demonstrate your competence:

D.1. by preparing written responses to case studies

Your performance will be successful when:

- D.1. each case study response demonstrates a thorough understanding of relevant aspects of the case
- D.2. each case study response outlines in detail the decision selected by the learner
- D.3. each case study response includes an explanation of why the decision was selected
- D.4. each case study response is supported by relevant evidence
- D.5. each case study response is well organized
- D.6. each case study response evidences correct grammar, punctuation, and spelling

E. Correlate hematology concepts and procedures with acute leukemias and myelodysplastic syndromes

You will demonstrate your competence:

- E.1. by preparing written responses to case studies

Your performance will be successful when:

- E.1. each case study response demonstrates a thorough understanding of relevant aspects of the case
- E.2. each case study response outlines in detail the decision selected by the learner
- E.3. each case study response includes an explanation of why the decision was selected
- E.4. each case study response is supported by relevant evidence
- E.5. each case study response is well organized
- E.6. each case study response evidences correct grammar, punctuation, and spelling

F. Correlate hematology concepts and procedures with chronic myeloproliferative disorders

You will demonstrate your competence:

- F.1. by preparing written responses to case studies

Your performance will be successful when:

- F.1. each case study response demonstrates a thorough understanding of relevant aspects of the case
- F.2. each case study response outlines in detail the decision selected by the learner
- F.3. each case study response includes an explanation of why the decision was selected
- F.4. each case study response is supported by relevant evidence
- F.5. each case study response is well organized
- F.6. each case study response evidences correct grammar, punctuation, and spelling

G. Correlate hematology concepts and procedures with malignant lymphoproliferative disorders

You will demonstrate your competence:

- G.1. by preparing written responses to case studies

Your performance will be successful when:

- G.1. each case study response demonstrates a thorough understanding of relevant aspects of the case
- G.2. each case study response outlines in detail the decision selected by the learner
- G.3. each case study response includes an explanation of why the decision was selected
- G.4. each case study response is supported by relevant evidence

G.5. each case study response is well organized

G.6. each case study response evidences correct grammar, punctuation, and spelling