Western Technical College

10512142  Surgical Interventions II

Course Outcome Summary

Course Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Expands knowledge of core and specialty surgical procedures by incorporating pathophysiology, diagnostic interventions, health sciences, and surgical techniques.</th>
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<tbody>
<tr>
<td>Career Cluster</td>
<td>Health Science</td>
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<tr>
<td>Instructional Level</td>
<td>Associate Degree Courses</td>
</tr>
<tr>
<td>Total Credits</td>
<td>4</td>
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<tr>
<td>Total Hours</td>
<td>72</td>
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</tbody>
</table>

Textbooks


Success Abilities

1. Refine Professionalism: Act Ethically
2. Refine Professionalism: Improve Critical Thinking
3. Refine Professionalism: Participate Collaboratively
4. Refine Professionalism: Practice Effective Communication

Program Outcomes

1. Apply healthcare and technological science principles to the perioperative environment
2. Maintain principles of sterile technique in the surgical environment
3. Perform intraoperative case management in the scrub role

Course Competencies
1. Explore surgical interventions for vascular procedures

Assessment Strategies
1.1. by answering questions that require you to apply knowledge about this competency (Your instructor may require several written exams as a part of this course. You will be notified in advance.)
1.2. by developing a surg tech plan for patients undergoing various types of vascular surgery

Criteria

You will know you are successful when
1.1. you include the pathology (i.e. tumor, cancer, classifications) that prompts the diagnostic/surgical intervention
1.2. you include a description of the surgical anatomy
1.3. you include a description of the diagnostic and surgical intervention
1.4. you include the instruments, equipment, suturing materials and supplies needed for the procedure
1.5. you include methods of anesthesia
1.6. you include patient preparation and positioning
1.7. you include role of the surgical technologist
1.8. you include draping considerations
1.9. you include the type of incision
1.10. you include the sequence of the procedure
1.11. you include a description of the care of the specimen (if appropriate)
1.12. you include surgical counts
1.13. you include the post-operative considerations
1.14. you include prognosis and potential complications
1.15. you include preparation of wound dressings
1.16. you include tissue replacement materials
1.17. you include special related medications (as appropriate)
1.18. you include wound classification and correlate to wound management

Learning Objectives
1.a. Identify the relevant anatomy of the peripheral vascular system.
1.b. Investigate the pathology that prompts surgical intervention of the peripheral system.
1.c. Examine any special preoperative peripheral vascular diagnostic procedures.
1.d. Investigate the surgical steps of peripheral vascular procedures.
1.e. Analyze the various grafting, bypassing, and shunting techniques related to peripheral vascular procedures.
1.f. Distinguish the various medications utilized in peripheral vascular procedures.
1.g. Describe patient care aspects related to peripheral vascular procedures within the perioperative setting.

2. Explore surgical interventions for cardiothoracic procedures

Assessment Strategies
2.1. by answering questions that require you to apply knowledge about this competency (Your instructor may require several written exams as a part of this course. You will be notified in advance.)
2.2. by developing a surg tech plan for patients undergoing various types of cardiothoracic surgery

Criteria

You will know you are successful when
2.1. you include the pathology (i.e. tumor, cancer, classifications) that prompts the diagnostic/surgical intervention
2.2. you include a description of the surgical anatomy
2.3. you include a description of the diagnostic and surgical intervention
2.4. you include the instruments, equipment, suturing materials and supplies needed for the procedure
2.5. you include methods of anesthesia
2.6. you include patient preparation and positioning
2.7. you include role of the surgical technologist
2.8. you include draping considerations
2.9. you include the type of incision
2.10. you include the sequence of the procedure
2.11. you include a description of the care of the specimen (if appropriate)
2.12. you include surgical counts
2.13. you include the post-operative considerations
2.14. you include prognosis and potential complications
2.15. you include preparation of wound dressings
2.16. you include tissue replacement materials
2.17. you include special related medications (as appropriate)
2.18. you include wound classification and correlate to wound management

Learning Objectives
2.a. Identify the relevant anatomy of the cardiothoracic system.
2.b. Investigate the pathology that prompts surgical intervention of the cardiothoracic system.
2.c. Examine any special preoperative cardiothoracic diagnostic procedures.
2.d. Investigate the surgical steps of cardiothoracic procedures.
2.e. Analyze the various grafting, bypassing, shunting, and valve replacement techniques related to cardiothoracic procedures.
2.f. Distinguish the various medications utilized in cardiothoracic procedures.
2.g. Describe patient care aspects related to cardiothoracic procedures within the perioperative setting.

3. **Explore surgical interventions for neurosurgical procedures**

Assessment Strategies
3.1. by answering questions that require you to apply knowledge about this competency (Your instructor may require several written exams as a part of this course. You will be notified in advance.)
3.2. by developing a surg tech plan for patients undergoing various types of neurosurgical surgery

Criteria
*You will know you are successful when*
3.1. you include the pathology (i.e. tumor, cancer, classifications) that prompts the diagnostic/surgical intervention
3.2. you include a description of the surgical anatomy
3.3. you include a description of the diagnostic and surgical intervention
3.4. you include the instruments, equipment, suturing materials and supplies needed for the procedure
3.5. you include methods of anesthesia
3.6. you include patient preparation and positioning
3.7. you include role of the surgical technologist
3.8. you include draping considerations
3.9. you include the type of incision
3.10. you include the sequence of the procedure
3.11. you include a description of the care of the specimen (if appropriate)
3.12. you include surgical counts
3.13. you include the post-operative considerations
3.14. you include prognosis and potential complications
3.15. you include preparation of wound dressings
3.16. you include tissue replacement materials
3.17. you include special related medications (as appropriate)
3.18. you include wound classification and correlate to wound management

Learning Objectives
3.a. Identify the relevant anatomy of the neurological system.
3.b. Investigate the pathology that prompts surgical intervention of the neurological system.
3.c. Examine any special preoperative neurological diagnostic procedures.
3.d. Investigate the surgical steps of neurological procedures.
3.e. Distinguish the various medications utilized in neurological procedures.
3.f. Describe patient care aspects related to neurological procedures within the perioperative setting.

4. **Explore surgical interventions for plastic reconstructive surgery**

Assessment Strategies
4.1. by answering questions that require you to apply knowledge about this competency (Your instructor may require several written exams as a part of this course. You will be notified in advance.)
4.2. by developing a surg tech plan for patients undergoing various types of reconstructive surgery

Criteria
You will know you are successful when

4.1. you include the pathology (i.e. tumor, cancer, classifications) that prompts the diagnostic/surgical intervention
4.2. you include a description of the surgical anatomy
4.3. you include a description of the diagnostic and surgical intervention
4.4. you include the instruments, equipment, suturing materials and supplies needed for the procedure
4.5. you include methods of anesthesia
4.6. you include patient preparation and positioning
4.7. you include role of the surgical technologist
4.8. you include draping considerations
4.9. you include the type of incision
4.10. you include the sequence of the procedure
4.11. you include a description of the care of the specimen (if appropriate)
4.12. you include surgical counts
4.13. you include the post-operative considerations
4.14. you include prognosis and potential complications
4.15. you include preparation of wound dressings
4.16. you include tissue replacement materials
4.17. you include special related medications (as appropriate)
4.18. you include wound classification and correlate to wound management

Learning Objectives
4.a. Identify the relevant anatomy related to plastic and reconstructive procedures.
4.b. Investigate the pathology that prompts plastic and reconstructive surgical intervention.
4.c. Investigate the surgical steps of plastic and reconstructive procedures.
4.d. Analyze the various skin grafting and plasty techniques related to plastic and reconstructive procedures.
4.e. Distinguish the various medications utilized in plastic and reconstructive procedures.
4.f. Describe patient care aspects related to plastic and reconstructive procedures within the perioperative setting.

5. Explore surgical interventions for ophthalmology surgery

Assessment Strategies
5.1. by answering questions that require you to apply knowledge about this competency (Your instructor may require several written exams as a part of this course. You will be notified in advance.)
5.2. by developing a surg tech plan for patients undergoing various types of maxillofacial surgery

Criteria
Performance will be successful when:

5.1. you include the pathology (i.e. tumor, cancer, classifications) that prompts the diagnostic/surgical intervention
5.2. you include a description of the surgical anatomy
5.3. you include a description of the diagnostic and surgical intervention
5.4. you include the instruments, equipment, suturing materials and supplies needed for the procedure
5.5. you include methods of anesthesia
5.6. you include patient preparation and positioning
5.7. you include role of the surgical technologist
5.8. you include draping considerations
5.9. you include the type of incision
5.10. you include the sequence of the procedure
5.11. you include a description of the care of the specimen (if appropriate)
5.12. you include surgical counts
5.13. you include the post-operative considerations
5.14. you include prognosis and potential complications
5.15. you include preparation of wound dressings
5.16. you include tissue replacement materials
5.17. you include special related medications (as appropriate)
5.18. you include wound classification and correlate to wound management

Learning Objectives
5.a. Identify the relevant anatomy of the ophthalmic system.
5.b. Investigate the pathology that prompts surgical intervention of the ophthalmic system.
5.c. Examine any special preoperative ophthalmic diagnostic procedures.
5.d. Investigate the surgical steps of ophthalmic procedures.
5.e. Distinguish the various medications utilized in ophthalmic procedures.
5.f. Describe patient care aspects related to ophthalmic procedures within the perioperative setting.