

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|--|--|--|--|
| GENERAL COMPETENCY 5.1 Maintain patency of upper airway and trachea. | | | | |
| SPECIFIC COMPETENCY | SUB COMPETENCIES | | | |
| 5.1.a Use manual maneuvers and positioning to maintain airway patency. | S | C | C | C |
| | | | Discuss the methods of the classifying and grading patient's airway. | Evaluate the methods of the classifying and grading patient's airway. |
| | Define methods of relieving the symptoms of airway obstruction. | Describe methods of relieving the symptoms of airway obstruction. | Discuss methods of relieving the symptoms of airway obstruction. | Explain the methods of relieving the symptoms of airway obstruction. |
| | Describe the types of airway opening maneuvers for various patients. | Describe the types of airway opening maneuvers for various patients. | Discuss the types of airway opening maneuvers for various patients. | Evaluate the types of airway opening maneuvers for various patients. |
| | Describe the indications, contraindications and precautions of performing airway maneuvers. | Discuss the indications, contraindications and precautions of performing airway maneuvers. | Analyze the indications, contraindications and precautions of performing airway maneuvers. | Analyze the indications, contraindications and precautions of performing airway maneuvers. |
| | Apply problem-solving techniques required with various types of patients. | Apply problem-solving techniques required with various types of patients. | Apply problem-solving techniques required with various types of patients. | Apply problem-solving techniques required with various types of patients. |
| | Demonstrate maneuvers and positioning for head, neck & jaw positioning which improve airway patency. | Adapt maneuvers and positioning for head, neck & jaw positioning which improve airway patency. | Adapt maneuvers and positioning for head, neck & jaw positioning which improve airway patency. | Adapt maneuvers and positioning for head, neck & jaw positioning which improve airway patency. |
| | Demonstrate manual airway maneuvers under a variety of patient and environmental presentations. | Perform manual airway maneuvers under a variety of patient and environmental presentations. | Perform manual airway maneuvers under a variety of patient and environmental presentations. | Perform manual airway maneuvers under a variety of patient and environmental presentations. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|----------------------------------|--|--|--|--|
| | Adjust to changes in patient's airway patency. | Adjust to changes in patient's airway patency. | Adapt to changes in patient's airway patency. | Adapt to changes in patient's airway patency. |
| | Demonstrate management of potential complications of airway maneuvers. | Demonstrate management of potential complications of airway maneuvers. | Demonstrate management of potential complications of airway maneuvers. | Demonstrate management of potential complications of airway maneuvers. |
| 5.1.b Suction oropharynx. | S | S | C | C |
| | Identify the purposes of and indications for oropharyngeal suctioning. | Explain the purposes of and indications for oropharyngeal suctioning. | Explain the purposes of and indications for oropharyngeal suctioning. | Explain the purposes of and indications for oropharyngeal suctioning. |
| | Describe suctioning equipment. | Describe suctioning equipment. | Describe suctioning equipment. | Describe suctioning equipment. |
| | Explain established standards of maintenance for suctioning equipment. | Explain established standards of maintenance for suctioning equipment. | Explain established standards of maintenance for suctioning equipment. | Explain established standards of maintenance for suctioning equipment. |
| | Identify pressure limitations for suctioning various age groups. | Identify pressure limitations for suctioning various age groups. | Identify pressure limitations for suctioning various age groups. | Identify pressure limitations for suctioning various age groups. |
| | Operate appropriate suctioning devices. | Operate appropriate suctioning devices. | Operate appropriate suctioning devices. | Operate appropriate suctioning devices. |
| | Demonstrate suctioning using safe technique. | Perform suctioning using safe technique. | Perform suctioning using safe technique. | Perform suctioning using safe technique. |
| | Adjust suctioning techniques to changes in patient's condition. | Adapt suctioning techniques to changes in patient's condition. | Adapt suctioning techniques to changes in patient's condition. | Adapt suctioning techniques to changes in patient's condition. |
| | List potential complications of suctioning. | Explain potential complications of suctioning. | Explain potential complications of suctioning. | Explain potential complications of suctioning. |
| | Demonstrate how to clean and disinfect suctioning equipment. | Perform cleaning and disinfection of suctioning equipment. | Perform cleaning and disinfection of suctioning equipment. | Perform cleaning and disinfection of suctioning equipment. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|---|--|--|--|
| 5.1.c Suction beyond oropharynx. | N | A | C | C |
| | | Identify indications for suctioning beyond the oropharynx. | Discuss indications for suctioning beyond the oropharynx. | Discuss indications for suctioning beyond the oropharynx. |
| | | Identify equipment for suctioning beyond the oropharynx. | Describe equipment for suctioning beyond the oropharynx. | Describe equipment for suctioning beyond the oropharynx. |
| | | | Perform suctioning beyond oropharynx. | Perform suctioning beyond oropharynx. |
| 5.1.d Utilize oropharyngeal airway. | S | S | C | C |
| | Identify the purpose and indications for inserting an oropharyngeal airway. | Explain the purpose and indications for inserting an oropharyngeal airway. | Explain the purpose and indications for inserting an oropharyngeal airway. | Explain the purpose and indications for inserting an oropharyngeal airway. |
| | Discuss oropharyngeal airway types and sizes. | Discuss oropharyngeal airway types and sizes. | Discuss oropharyngeal airway types and sizes. | Discuss oropharyngeal airway types and sizes. |
| | Perform oropharyngeal airway sizing procedures. | Perform oropharyngeal airway sizing procedures. | Perform oropharyngeal airway sizing procedures. | Perform oropharyngeal airway sizing procedures. |
| | Perform insertion of an oropharyngeal airway. | Perform insertion of an oropharyngeal airway. | Perform insertion of an oropharyngeal airway. | Perform insertion of an oropharyngeal airway. |
| | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| 5.1.e Utilize nasopharyngeal airway. | X | S | S | S |
| | List the indications for inserting a nasopharyngeal airway. | Explain the purposes of and indications for inserting a nasopharyngeal airway. | Explain the purposes of and indications for inserting a nasopharyngeal airway. | Explain the purposes of and indications for inserting a nasopharyngeal airway. |
| | | Perform nasopharyngeal airway sizing procedures. | Perform nasopharyngeal airway sizing procedures. | Perform nasopharyngeal airway sizing procedures. |
| | | Perform nasopharyngeal airway insertion. | Perform nasopharyngeal airway insertion. | Perform nasopharyngeal airway insertion. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|----------|--|--|--|
| | | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| 5.1.f Utilize airway devices not requiring visualization of vocal cords and not introduced endotracheally. | N | A | S | S |
| | | Explain the purposes of and indications for airway devices not requiring visualization of vocal cords and not introduced endotracheally. | Explain the purposes of and indications for airway devices not requiring visualization of vocal cords and not introduced endotracheally. | Explain the purposes of and indications for airway devices not requiring visualization of vocal cords and not introduced endotracheally. |
| | | Describe various types of airway devices not requiring visualization of vocal cords and not introduced endotracheally. | Describe various types of airway devices not requiring visualization of vocal cords and not introduced endotracheally. | Describe various types of airway devices not requiring visualization of vocal cords and not introduced endotracheally. |
| | | | Perform sizing procedures for airway devices not requiring visualization of vocal cords and not introduced endotracheally. | Perform sizing procedures for airway devices not requiring visualization of vocal cords and not introduced endotracheally. |
| | | | Perform insertion of airway devices not requiring visualization of vocal cords and not introduced endotracheally. | Perform insertion of airway devices not requiring visualization of vocal cords and not introduced endotracheally. |
| | | | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|----------|--|--|--|
| 5.1.g Utilize airway devices not requiring visualization of vocal cords and introduced endotracheally. | N | A | S | S |
| | | Explain the purposes of and indications for airway devices not requiring visualization of vocal cords and introduced endotracheally. | Explain the purposes of and indications for airway devices not requiring visualization of vocal cords and introduced endotracheally. | Explain the purposes of and indications for airway devices not requiring visualization of vocal cords and introduced endotracheally. |
| | | Describe various types of airway devices not requiring visualization of vocal cords and introduced endotracheally. | Describe various types of airway devices not requiring visualization of vocal cords and introduced endotracheally. | Describe various types of airway devices not requiring visualization of vocal cords and introduced endotracheally. |
| | | | Perform sizing procedures for airway devices not requiring visualization of vocal cords and introduced endotracheally. | Perform sizing procedures for airway devices not requiring visualization of vocal cords and introduced endotracheally. |
| | | | Demonstrate the insertion of various airway devices not requiring visualization of the vocal cords. | Demonstrate the insertion of various airway devices not requiring visualization of the vocal cords. |
| | | | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|---|--|--|--|
| 5.1.h Utilize airway devices requiring visualization of vocal cords and introduced endotracheally. | N | A | C | C |
| | | Explain the purposes of and indications for airway devices requiring visualization of vocal cords and introduced endotracheally. | Explain the purposes of and indications for airway devices requiring visualization of vocal cords and introduced endotracheally. | Explain the purposes of and indications for airway devices requiring visualization of vocal cords and introduced endotracheally. |
| | | Describe the various types of airway devices requiring visualization of vocal cords and introduced endotracheally. | Describe the various types of airway devices requiring visualization of vocal cords and introduced endotracheally. | Describe the various types of airway devices requiring visualization of vocal cords and introduced endotracheally. |
| | | | Perform sizing procedures for airway devices requiring visualization of vocal cords and introduced endotracheally. | Perform sizing procedures for airway devices requiring visualization of vocal cords and introduced endotracheally. |
| | | | Perform insertion of airway devices requiring visualization of vocal cords and introduced endotracheally. | Perform insertion of airway devices requiring visualization of vocal cords and introduced endotracheally. |
| | | | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| 5.1.i Remove airway foreign bodies (AFB). | S | S | S | S |
| | Identify the indications for AFB removal. | Identify the indications for AFB removal. | Identify the indications for AFB removal. | Identify the indications for AFB removal. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|---|---|---|---|
| | Describe the methods of relieving airway obstructions. | Describe the methods of relieving airway obstructions. | Describe the methods of relieving airway obstructions. | Describe the methods of relieving airway obstructions. |
| | Describe the differences in technique required for AFB removal in various age groups. | Describe the differences in technique required for AFB removal in various age groups. | Describe the differences in technique required for AFB removal in various age groups. | Describe the differences in technique required for AFB removal in various age groups. |
| | Perform AFB removal under a variety of presentations. | Perform AFB removal under a variety of presentations. | Perform AFB removal under a variety of presentations. | Perform AFB removal under a variety of presentations. |
| | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| | Identify potential complications of AFB removal. | Identify potential complications of AFB removal. | Discuss potential complications of AFB removal. | Discuss potential complications of AFB removal. |
| 5.1.j Remove foreign body by direct techniques. | N | X | S | S |
| | | List the purposes of and indications for foreign body removal by forceps. | Identify the purposes of and indications for foreign body removal by forceps. | Identify the purposes of and indications for foreign body removal by forceps. |
| | | | Describe equipment used for foreign body removal by direct techniques. | Describe equipment used for foreign body removal by direct techniques. |
| | | | Perform direct techniques to remove a foreign body. | Perform direct techniques to remove a foreign body. |
| | | | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|----------|--|--|--|
| | | | Identify potential complications of AFB removal by direct techniques. | Identify potential complications of AFB removal by direct techniques. |
| 5.1.k Conduct percutaneous cricothyroidotomy. | N | X | S | S |
| | | List the purposes of and indications for percutaneous cricothyroidotomy. | Identify the purposes of and indications for percutaneous cricothyroidotomy. | Identify the purposes of and indications for percutaneous cricothyroidotomy. |
| | | | Describe equipment used for percutaneous cricothyroidotomy. | Describe equipment used for percutaneous cricothyroidotomy. |
| | | | Perform percutaneous cricothyroidotomy. | Perform percutaneous cricothyroidotomy. |
| | | | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| | | | Identify potential complications of percutaneous cricothyroidotomy. | Identify potential complications of percutaneous cricothyroidotomy. |
| 5.1.l Conduct surgical cricothyroidotomy. | N | N | A | S |
| | | | Identify the purposes of and indications for surgical cricothyroidotomy. | Identify the purposes of and indications for surgical cricothyroidotomy. |
| | | | Describe equipment used for surgical cricothyroidotomy. | Describe equipment used for surgical cricothyroidotomy. |
| | | | | Perform surgical cricothyroidotomy. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|--|--|--|---|
| | | | | Adjust to changes in patient presentation. |
| | | | | Identify potential complications of surgical cricothyroidotomy. |
| GENERAL COMPETENCY 5.2 Prepare oxygen delivery devices. | | | | |
| SPECIFIC COMPETENCY | SUB COMPETENCIES | | | |
| 5.2.a Recognize indications for oxygen administration. | A | A | A | A |
| | Identify indications for oxygen administration. | Describe indications for oxygen administration. | Discuss indications for oxygen administration. | Discuss indications for oxygen administration. |
| | Identify the purpose of oxygen administration. | Discuss the purpose of oxygen administration. | Explain the purpose of oxygen administration. | Explain the purpose of oxygen administration. |
| | Identify oxygen administration complications. | Discuss oxygen administration complications. | Explain oxygen administration complications. | Explain oxygen administration complications. |
| 5.2.b Take appropriate safety precautions. | A | A | A | A |
| | Describe the safe handling of oxygen delivery systems. | Describe the safe handling of oxygen delivery systems. | Describe the safe handling of oxygen delivery systems. | Describe the safe handling of oxygen delivery systems. |
| | Identify oxygen administration precautions. | Discuss oxygen administration precautions. | Discuss oxygen administration precautions. | Discuss oxygen administration precautions. |
| 5.2.c Ensure adequacy of oxygen supply. | A | A | A | A |
| | Identify different oxygen cylinder types and sizes. | Identify different oxygen cylinder types and sizes. | Identify different oxygen cylinder types and sizes. | Identify different oxygen cylinder types and sizes. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|---|---|---|---|
| | Apply the formulas that determine oxygen cylinder factors, volume (or type) and maximum filling volumes and duration. | Apply the formulas that determine oxygen cylinder factors, volume (or type) and maximum filling volumes and duration. | Apply the formulas that determine oxygen cylinder factors, volume (or type) and maximum filling volumes and duration. | Apply the formulas that determine oxygen cylinder factors, volume (or type) and maximum filling volumes and duration. |
| 5.2.d Recognize different types of oxygen delivery systems. | A | A | A | A |
| | Identify various types of oxygen delivery systems. | Identify various types of oxygen delivery systems. | Identify various types of oxygen delivery systems. | Identify various types of oxygen delivery systems. |
| | Explain the difference between portable and fixed delivery systems. | Explain the difference between portable and fixed delivery systems. | Explain the difference between portable and fixed delivery systems. | Explain the difference between portable and fixed delivery systems. |
| 5.2.e Utilize portable oxygen delivery systems. | S | P | P | P |
| | Describe the sequential steps for setting up oxygen delivery systems. | Describe the sequential steps for setting up oxygen delivery systems. | Describe the sequential steps for setting up oxygen delivery systems. | Describe the sequential steps for setting up oxygen delivery systems. |
| | Operate oxygen delivery systems. | Operate oxygen delivery systems. | Operate oxygen delivery systems. | Operate oxygen delivery systems. |
| | Demonstrate cleaning and disinfection of oxygen delivery systems. | Demonstrate cleaning and disinfection of oxygen delivery systems. | Demonstrate cleaning and disinfection of oxygen delivery systems. | Demonstrate cleaning and disinfection of oxygen delivery systems. |
| SPECIFIC COMPETENCY | SUB COMPETENCIES | | | |
| 5.3.a Administer oxygen using nasal cannula. | S | C | C | C |
| | Identify the purposes of and indications for the use of a nasal cannula. | Identify the purposes of and indications for the use of a nasal cannula. | Identify the purposes of and indications for the use of a nasal cannula. | Identify the purposes of and indications for the use of a nasal cannula. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|---|---|---|---|
| | List the steps for administration of oxygen by nasal cannula. | List the steps for administration of oxygen by nasal cannula. | List the steps for administration of oxygen by nasal cannula. | List the steps for administration of oxygen by nasal cannula. |
| | Perform oxygen administration using a nasal cannula. | Perform oxygen administration using a nasal cannula. | Perform oxygen administration using a nasal cannula. | Perform oxygen administration using a nasal cannula. |
| | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| 5.3.b Administer oxygen using low concentration mask. | S | C | C | C |
| | Identify the purposes of and indications for the use of a low concentration mask. | Identify the purposes of and indications for the use of a low concentration mask. | Identify the purposes of and indications for the use of a low concentration mask. | Identify the purposes of and indications for the use of a low concentration mask. |
| | List the steps for administration of oxygen by a low concentration mask. | List the steps for administration of oxygen by a low concentration mask. | List the steps for administration of oxygen by a low concentration mask. | List the steps for administration of oxygen by a low concentration mask. |
| | Perform oxygen administration using a low concentration mask. | Perform oxygen administration using a low concentration mask. | Perform oxygen administration using a low concentration mask. | Perform oxygen administration using a low concentration mask. |
| | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| 5.3.c Administer oxygen using controlled concentration mask. | N | X | X | X |
| | | Identify the purposes of and indications for the use of a controlled concentration oxygen mask. | Identify the purposes of and indications for the use of a controlled concentration oxygen mask. | Identify the purposes of and indications for the use of a controlled concentration oxygen mask. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|--|--|--|--|
| 5.3.d Administer oxygen using high concentration mask. | S | C | C | C |
| | Identify the purposes of and indications for the use of a high concentration mask. | Identify the purposes of and indications for the use of a high concentration mask. | Identify the purposes of and indications for the use of a high concentration mask. | Identify the purposes of and indications for the use of a high concentration mask. |
| | List the steps for administration of oxygen by a high concentration mask. | List the steps for administration of oxygen by a high concentration mask. | List the steps for administration of oxygen by a high concentration mask. | List the steps for administration of oxygen by a high concentration mask. |
| | Perform oxygen administration using a high concentration mask. | Perform oxygen administration using a high concentration mask. | Perform oxygen administration using a high concentration mask. | Perform oxygen administration using a high concentration mask. |
| | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| 5.3.e Administer oxygen using pocket mask. | S | S | S | S |
| | Identify the purposes of and indications for the use of a pocket mask. | Identify the purposes of and indications for the use of a pocket mask. | Identify the purposes of and indications for the use of a pocket mask. | Identify the purposes of and indications for the use of a pocket mask. |
| | List the steps for administration of oxygen by a pocket mask. | List the steps for administration of oxygen by a pocket mask. | List the steps for administration of oxygen by a pocket mask. | List the steps for administration of oxygen by a pocket mask. |
| | Perform oxygen administration using a pocket mask. | Perform oxygen administration using a pocket mask. | Perform oxygen administration using a pocket mask. | Perform oxygen administration using a pocket mask. |
| | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|---|--|--|--|
| GENERAL COMPETENCY 5.4 Utilize ventilation equipment. | | | | |
| SPECIFIC COMPETENCY | SUB COMPETENCIES | | | |
| 5.4.a Provide oxygenation and ventilation using bag-valve-mask. | S | C | C | C |
| | Identify the purposes of and indications for the use of a bag-valve-mask. | Identify the purposes of and indications for the use of a bag-valve-mask. | Identify the purposes of and indications for the use of a bag-valve-mask. | Identify the purposes of and indications for the use of a bag-valve-mask. |
| | List the steps for administration of oxygen by a bag-valve-mask. | List the steps for administration of oxygen by a bag-valve-mask. | List the steps for administration of oxygen by a bag-valve-mask. | List the steps for administration of oxygen by a bag-valve-mask. |
| | | Discuss rate, rhythm, volume, compliance and positive end expiratory pressure. | Discuss rate, rhythm, volume, compliance and positive end expiratory pressure. | Discuss rate, rhythm, volume, compliance and positive end expiratory pressure. |
| | Perform ventilation using a bag-valve-mask. | Perform ventilation using a bag-valve-mask. | Perform ventilation using a bag-valve-mask. | Perform ventilation using a bag-valve-mask. |
| | Distinguish between one person or two person application of a bag-valve-mask. | Distinguish between one person or two person application of a bag-valve-mask. | Distinguish between one person or two person application of a bag-valve-mask. | Distinguish between one person or two person application of a bag-valve-mask. |
| | | Evaluate the effectiveness of ventilation. | Evaluate the effectiveness of ventilation. | Evaluate the effectiveness of ventilation. |
| | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| 5.4.b Recognize indications for mechanical ventilation. | N | A | A | A |
| | | Define "mechanical ventilation". | Define "mechanical ventilation". | Define "mechanical ventilation". |
| | | Identify the various types of mechanical ventilation equipment. | Identify the various types of mechanical ventilation equipment. | Identify the various types of mechanical ventilation equipment. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|----------|---|--|--|
| | | List indications for mechanical ventilation. | Discuss indications for mechanical ventilation. | Evaluate whether patient may benefit from mechanical ventilation. |
| 5.4.c Prepare mechanical ventilation equipment. | N | A | A | A |
| | | Identify potential complications and safety issues when using mechanical ventilation. | Discuss potential complications and safety issues when using mechanical ventilation. | Explain potential complications and safety issues when using mechanical ventilation. |
| | | | Describe vent circuit, end-tidal carbon dioxide, manometer, respirometer. | Describe vent circuit, end-tidal carbon dioxide, manometer, respirometer. |
| | | | Differentiate between intermittent mandatory ventilation, continuous mandatory ventilation, assist control, inverse ratio. | Differentiate between intermittent mandatory ventilation, continuous mandatory ventilation, assist control, inverse ratio. |
| | | | Discuss continuous positive airway pressure, positive end expiratory pressure, non-invasive positive pressure ventilation. | Explain continuous positive airway pressure, positive end expiratory pressure, non-invasive positive pressure ventilation. |
| | | | Describe blender, saturated oxygen. | Describe blender, saturated oxygen. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|----------|----------|---|--|
| | | | Describe compliance, resistance, plateau pressure, inspiratory pressure, expiratory pressure, peak expiratory pressure, tidal volume, respiratory rate. | Explain compliance, resistance, plateau pressure, inspiratory pressure, expiratory pressure, peak expiratory pressure, tidal volume, respiratory rate. |
| | | | Set up mechanical ventilator based on patient presentation. | Set up mechanical ventilator based on patient presentation. |
| 5.4.d Provide mechanical ventilation. | N | N | C | C |
| | | | Demonstrate use of mechanical ventilator based on patient presentation. | Demonstrate use of mechanical ventilator based on patient presentation. |
| | | | Adjust parameters to changes in ventilatory and hemodynamic status. | Adjust parameters to changes in ventilatory and hemodynamic status. |
| | | | Integrate the use of mechanical ventilator based on patient presentation. | Integrate the use of mechanical ventilator based on patient presentation. |
| | | | | Integrate the use of pressure support, pressure control, manometry, respirometry and arterial blood gas analysis. |
| | | | Integrate the use of capnography and pulse oximetry. | Integrate the use of capnography and pulse oximetry. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|---|---|---|---|
| GENERAL COMPETENCY 5.5 Implement measures to maintain hemodynamic stability. | | | | |
| SPECIFIC COMPETENCY | SUB COMPETENCIES | | | |
| 5.5.a Conduct cardiopulmonary resuscitation (CPR). | S | S | S | S |
| | Identify the purposes of and indications for CPR. | Identify the purposes of and indications for CPR. | Identify the purposes of and indications for CPR. | Identify the purposes of and indications for CPR. |
| | List the steps for CPR administration in a variety of presentations. | List the steps for CPR administration in a variety of presentations. | List the steps for CPR administration in a variety of presentations. | List the steps for CPR administration in a variety of presentations. |
| | Perform CPR on various age groups. | Perform CPR on various age groups. | Perform CPR on various age groups. | Perform CPR on various age groups. |
| | Perform CPR while moving a patient from site of collapse. | Perform CPR while moving a patient from site of collapse. | Perform CPR while moving a patient from site of collapse. | Perform CPR while moving a patient from site of collapse. |
| | Discuss potential complications of CPR. | Discuss potential complications of CPR. | Discuss potential complications of CPR. | Discuss potential complications of CPR. |
| | Adapt to changes in patient presentation. | Adapt to changes in patient presentation. | Adapt to changes in patient presentation. | Adapt to changes in patient presentation. |
| 5.5.b Control external hemorrhage through the use of direct pressure and patient positioning. | S | S | S | S |
| | Identify the purposes of and indications for hemorrhage control through the use of direct pressure and patient positioning. | Identify the purposes of and indications for hemorrhage control through the use of direct pressure and patient positioning. | Identify the purposes of and indications for hemorrhage control through the use of direct pressure and patient positioning. | Identify the purposes of and indications for hemorrhage control through the use of direct pressure and patient positioning. |
| | List the steps for hemorrhage control through the use of direct pressure and patient positioning. | List the steps for hemorrhage control through the use of direct pressure and patient positioning. | List the steps for hemorrhage control through the use of direct pressure and patient positioning. | List the steps for hemorrhage control through the use of direct pressure and patient positioning. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|---|---|---|---|
| | Perform hemorrhage control through the use of direct pressure and patient positioning. | Perform hemorrhage control through the use of direct pressure and patient positioning. | Perform hemorrhage control through the use of direct pressure and patient positioning. | Perform hemorrhage control through the use of direct pressure and patient positioning. |
| | Discuss potential complications of hemorrhage control through the use of direct pressure and patient positioning. | Discuss potential complications of hemorrhage control through the use of direct pressure and patient positioning. | Discuss potential complications of hemorrhage control through the use of direct pressure and patient positioning. | Discuss potential complications of hemorrhage control through the use of direct pressure and patient positioning. |
| | Adapt to changes in patient presentation. | Adapt to changes in patient presentation. | Adapt to changes in patient presentation. | Adapt to changes in patient presentation. |
| 5.5 c Maintain peripheral intravenous (IV) access devices and infusions of crystalloid solutions without additives. | N | C | P | P |
| | | Describe equipment for peripheral IV infusion. | Describe equipment for peripheral IV infusion. | Describe equipment for peripheral IV infusion. |
| | | Identify factors that affect the flow rate. | Identify factors that affect the flow rate. | Identify factors that affect the flow rate. |
| | | Demonstrate the ability to discontinue an infusion following sequential steps. | Demonstrate the ability to discontinue an infusion following sequential steps. | Demonstrate the ability to discontinue an infusion following sequential steps. |
| | | Adjust devices as required to maintain flow rates. | Adjust devices as required to maintain flow rates. | Adjust devices as required to maintain flow rates. |
| 5.5.d Conduct peripheral intravenous cannulation. | N | A | P | P |
| | | Identify the purposes of and indications for peripheral IV cannulation. | Identify the purposes of and indications for peripheral IV cannulation. | Identify the purposes of and indications for peripheral IV cannulation. |
| | | | List the steps of peripheral IV cannulation. | List the steps of peripheral IV cannulation. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|----------|---|--|--|
| | | | Perform peripheral IV cannulation. | Perform peripheral IV cannulation. |
| | | Discuss potential complications of peripheral IV cannulation. | Discuss potential complications of peripheral IV cannulation. | Discuss potential complications of peripheral IV cannulation. |
| | | | Adapt to changes in patient presentation. | Adapt to changes in patient presentation. |
| 5.5.e Conduct intraosseous needle insertion. | N | X | S | S |
| | | List the purposes of and indications for intraosseous needle insertion. | Identify the purposes of and indications for intraosseous needle insertion. | Identify the purposes of and indications for intraosseous needle insertion. |
| | | | List the steps of intraosseous needle insertion. | List the steps of intraosseous needle insertion. |
| | | | Perform intraosseous needle insertion. | Perform intraosseous needle insertion. |
| | | | Discuss potential complications of intraosseous needle insertion. | Discuss potential complications of intraosseous needle insertion. |
| | | | Adapt to changes in patient presentation. | Adapt to changes in patient presentation. |
| 5.5.f Utilize direct pressure infusion devices with intravenous infusions. | N | A | S | S |
| | | Identify purposes of and indications for pressure infusion. | Discuss purposes of and indications for pressure infusion. | Discuss purposes of and indications for pressure infusion. |
| | | Identify the principles and techniques for applying added pressure to an infusion line. | Discuss the principles and techniques for applying added pressure to an infusion line. | Explain the principles and techniques for applying added pressure to an infusion line. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|----------|--|---|---|
| | | | Perform direct pressure infusions. | Perform direct pressure infusions. |
| | | | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| 5.5.g Administer volume expanders (colloid and non-crystalloid). | N | X | S | S |
| | | Describe the reasons for administration of volume expanders. | Explain the reasons for administration of volume expanders. | Explain the reasons for administration of volume expanders. |
| | | List equipment for administration of volume expanders. | Set up equipment for administration of volume expanders. | Set up equipment for administration of volume expanders. |
| | | | Demonstrate the administration of volume expanders. | Demonstrate the administration of volume expanders. |
| 5.5 h Administer blood and/or blood products. | N | X | A | S |
| | | List the components of blood. | Describe the components of blood. | Describe the components of blood. |
| | | List blood types. | Discuss blood types. | Discuss blood types. |
| | | | List products derived from blood. | Distinguish between products derived from blood. |
| | | List precautions for handling blood. | List precautions for handling blood. | Demonstrate safe handling of blood. |
| | | | List potential complications of blood transfusions. | Discuss potential complications of blood transfusions. |
| | | | | Perform the administration of blood and/or blood products. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|---|---|---|---|
| | | | | Integrate the administration of blood and blood products with volume expanders. |
| | | | | Adjust patient care based on presentation. |
| 5.5.i Conduct automated external defibrillation. | S | S | S | S |
| | Define “defibrillation”. | Explain defibrillation. | Explain defibrillation. | Explain defibrillation. |
| | Describe the purposes of automated external defibrillation. | Explain the purposes of automated external defibrillation. | Explain the purposes of automated external defibrillation. | Explain the purposes of automated external defibrillation. |
| | Discuss the indications for automated external defibrillation. | Discuss the indications for automated external defibrillation. | Discuss the indications for automated external defibrillation. | Discuss the indications for automated external defibrillation. |
| | Identify the various types of automated external defibrillator. | Discuss the various types of automated external defibrillator. | Discuss the various types of automated external defibrillator. | Discuss the various types of automated external defibrillator. |
| | List complications to the use of automated external defibrillation. | Explain complications to the use of automated external defibrillation. | Explain complications to the use of automated external defibrillation. | Explain complications to the use of automated external defibrillation. |
| | Apply the established standards of automated external defibrillation equipment maintenance. | Apply the established standards of automated external defibrillation equipment maintenance. | Apply the established standards of automated external defibrillation equipment maintenance. | Apply the established standards of automated external defibrillation equipment maintenance. |
| | Operate an automated external defibrillator. | Operate an automated external defibrillator. | Operate an automated external defibrillator. | Operate an automated external defibrillator. |
| | Integrate CPR procedures and automated external defibrillation procedures. | Integrate CPR procedures and automated external defibrillation procedures. | Integrate CPR procedures and automated external defibrillation procedures. | Integrate CPR procedures and automated external defibrillation procedures. |
| | Adapt procedures to patient presentation. | Integrate procedures to patient presentation. | Integrate procedures to patient presentation. | Integrate procedures to patient presentation. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|----------|--|--|--|
| 5.5.j Conduct manual defibrillation. | N | X | S | S |
| | | Distinguish between automated external defibrillation and manual defibrillation. | Explain the differences between automated external defibrillation and manual defibrillation. | Explain the differences between automated external defibrillation and manual defibrillation. |
| | | | Explain the purposes of manual defibrillation. | Explain the purposes of manual defibrillation. |
| | | | Discuss the indications for manual defibrillation. | Discuss the indications for manual defibrillation. |
| | | | Discuss the various types of manual defibrillators. | Discuss the various types of manual defibrillators. |
| | | | Explain complications to the use of manual defibrillation. | Explain complications to the use of manual defibrillation. |
| | | | Apply the established standards of manual defibrillation equipment maintenance. | Apply the established standards of manual defibrillation equipment maintenance. |
| | | | Discuss situations where manual defibrillation is required. | Discuss situations where manual defibrillation is required. |
| | | | Operate a manual defibrillator. | Operate a manual defibrillator. |
| | | | Integrate CPR procedures and manual defibrillation procedures. | Integrate CPR procedures and manual defibrillation procedures. |
| | | | Adapt manual defibrillation procedures to patient presentation. | Adapt manual defibrillation procedures to patient presentation. |
| 5.5.k Conduct cardioversion. | N | X | S | S |
| | | Define "cardioversion". | Explain cardioversion. | Explain cardioversion. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|----------|---|---|---|
| | | List the medical conditions that require cardioversion. | Discuss the medical conditions that require cardioversion. | Discuss the medical conditions that require cardioversion. |
| | | | Discuss equipment required for cardioversion. | Discuss equipment required for cardioversion. |
| | | | Explain complications of cardioversion. | Explain complications of cardioversion. |
| | | | Set up equipment for cardioversion. | Set up equipment for cardioversion. |
| | | | Demonstrate cardioversion. | Demonstrate cardioversion. |
| | | | Adjust procedures to patient presentation. | Adjust procedures to patient presentation. |
| | | | Integrate CPR and manual cardioversion. | Integrate CPR and manual cardioversion. |
| | | | Integrate sedative and analgesic therapies with manual cardioversion. | Integrate sedative and analgesic therapies with manual cardioversion. |
| 5.5.1 Conduct transcutaneous pacing. | N | X | S | S |
| | | Define "transcutaneous pacing". | Explain transcutaneous pacing. | Explain transcutaneous pacing. |
| | | | Discuss situations where transcutaneous pacing is indicated. | Discuss situations where transcutaneous pacing is indicated. |
| | | | Discuss equipment for transcutaneous pacing. | Discuss equipment for transcutaneous pacing. |
| | | | Explain complications of transcutaneous pacing. | Explain complications of transcutaneous pacing. |
| | | | Set up equipment required for transcutaneous pacing. | Set up equipment required for transcutaneous pacing. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|----------|----------|--|--|
| | | | Demonstrate transcutaneous pacing. | Demonstrate transcutaneous pacing. |
| | | | Adjust procedures to patient presentation. | Adjust procedures to patient presentation. |
| | | | Integrate sedative and analgesic therapies with transcutaneous pacing. | Integrate sedative and analgesic therapies with transcutaneous pacing. |
| 5.5.m Maintain transvenous pacing. | N | N | A | S |
| | | | Identify situations where transvenous pacing is indicated. | Discuss situations where transvenous pacing is indicated. |
| | | | Identify equipment required for transvenous pacing. | Identify equipment required for transvenous pacing. |
| | | | | Explain complications of transvenous pacing. |
| | | | | Set up equipment for transvenous pacing. |
| | | | | Demonstrate transvenous pacing. |
| | | | | Adjust procedures to patient presentation. |
| 5.5.n Maintain intra-aortic balloon pumps. | N | N | X | A |
| | | | List the purpose of intra-aortic balloon pumps. | Explain the purpose of intra-aortic balloon pumps. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|----------|--|--|---|
| | | | List the complications of intra-aortic balloon pumps during transport. | Explain the complications of intra-aortic balloon pumps during transport. |
| 5.5.o Provide routine care for patient with urinary catheter. | N | S | C | C |
| | | Identify the purpose of a urinary catheter. | Identify the purpose of a urinary catheter. | Identify the purpose of a urinary catheter. |
| | | Identify equipment for catheterization. | Identify equipment for catheterization. | Identify equipment for catheterization. |
| | | Explain how the size of the catheter can affect the patient. | Explain how the size of the catheter can affect the patient. | Explain how the size of the catheter can affect the patient. |
| | | Explain relationship between urine output and patient condition. | Explain relationship between urine output and patient condition. | Explain relationship between urine output and patient condition. |
| | | Demonstrate the appropriate technique when caring for equipment and patient. | Perform the appropriate technique when caring for equipment and patient. | Perform the appropriate technique when caring for equipment and patient. |
| | | Explain potential complications to catheter care. | Explain potential complications to catheter care. | Explain potential complications to catheter care. |
| | | Demonstrate how to drain and measure urine output. | Demonstrate how to drain and measure urine output. | Demonstrate how to drain and measure urine output. |
| | | Adapt care procedures to patient presentation. | Adapt care procedures to patient presentation. | Adapt care procedures to patient presentation. |
| 5.5.p Provide routine care for patient with ostomy drainage system. | N | A | S | S |
| | | Identify the purpose of an ostomy drainage system. | Identify the purpose of an ostomy drainage system. | Identify the purpose of an ostomy drainage system. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|----------|--|---|---|
| | | Identify equipment for ostomy drainage. | Identify equipment for ostomy drainage. | Identify equipment for ostomy drainage. |
| | | Identify the site of the ostomy and relate to patient condition. | Explain the site of the ostomy and relate to patient condition. | Explain the site of the ostomy and relate to patient condition. |
| | | Describe the components of drainage bag. | Describe the components of drainage bag. | Describe the components of drainage bag. |
| | | | Demonstrate routine care for patient with an ostomy drainage system. | Demonstrate routine care for patient with an ostomy drainage system. |
| 5.5.q Provide routine care for patient with non-catheter urinary drainage system. | N | A | A | A |
| | | Identify equipment for non-catheter urinary drainage . | Discuss equipment for non-catheter urinary drainage. | Discuss equipment for non-catheter urinary drainage. |
| | | Relate urine output to patient condition. | Relate urine output to patient condition. | Relate urine output to patient condition. |
| | | Identify the purpose of non-catheter urinary drainage. | Discuss the purpose of non-catheter urinary drainage. | Discuss the purpose of non-catheter urinary drainage. |
| | | Describe procedures for the routine care of a patient with non-catheter drainage system. | Discuss procedures for the routine care of a patient with non-catheter drainage system. | Discuss procedures for the routine care of a patient with non-catheter drainage system. |
| 5.5.r Monitor chest tubes. | N | X | X | C |
| | | Identify the purpose of a chest tube. | Identify the purpose of a chest tube. | Explain the purpose of a chest tube. |
| | | List indications for the use of chest tubes. | List indications for the use of chest tubes. | Explain indications for the use of chest tubes. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|----------|---|--|---|
| | | | | Describe the components of a closed chest tube system. |
| | | | | Perform monitoring techniques for the application of existing chest drainage systems. |
| | | | | Adapt techniques to all age groups and patient presentations. |
| 5.5.s Conduct needle thoracostomy. | N | X | S | S |
| | | List indications for needle thoracostomy. | Discuss indications for needle thoracostomy. | Discuss indications for needle thoracostomy. |
| | | List equipment for needle thoracostomy. | Describe equipment for needle thoracostomy. | Describe equipment for needle thoracostomy. |
| | | | Demonstrate performance of needle thoracostomy. | Demonstrate performance of needle thoracostomy. |
| 5.5.t Conduct oral and nasal gastric tube insertion. | N | X | S | C |
| | | List indications for oral and nasal gastric intubation. | Discuss indications for oral and nasal gastric intubation. | Apply indications for oral and nasal gastric intubation. |
| | | List equipment for oral and nasal gastric intubation. | Describe equipment for oral and nasal gastric intubation. | Describe equipment for oral and nasal gastric intubation. |
| | | | Demonstrate oral and nasal gastric tube insertion. | Perform oral and nasal gastric tube insertion. |
| | | | Adapt techniques to age groups and patient types. | Adapt techniques to age groups and patient types. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|--|--|--|--|
| 5.5.u Conduct urinary catheterization. | N | X | A | S |
| | | List the indications for urinary catheterization. | List the indications for urinary catheterization. | Discuss the indications for urinary catheterization. |
| | | List the equipment needed for urinary catheterization. | List the equipment needed for urinary catheterization. | Describe the equipment needed for urinary catheterization. |
| | | | Describe the differences to catheterization between males and females. | Describe the differences to catheterization between males and females. |
| | | | | Perform urinary catheterization on males and females. |
| | | | | Adapt techniques to various age groups and special situations. |
| GENERAL COMPETENCY 5.6 Provide basic care for soft tissue injuries. | | | | |
| SPECIFIC COMPETENCY | SUB COMPETENCIES | | | |
| 5.6.a Treat soft tissue injuries. | S | P | P | P |
| | Identify the purposes of and indications for soft tissue dressing, bandaging and immobilization. | Identify the purposes of and indications for soft tissue dressing, bandaging and immobilization. | Identify the purposes of and indications for soft tissue dressing, bandaging and immobilization. | Identify the purposes of and indications for soft tissue dressing, bandaging and immobilization. |
| | Describe the various types of dressings and bandages. | Describe the various types of dressings and bandages. | Describe the various types of dressings and bandages. | Describe the various types of dressings and bandages. |
| | Describe aseptic technique. | Describe aseptic technique. | Describe aseptic technique. | Describe aseptic technique. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---------------------------------------|--|--|--|--|
| | Demonstrate dressing, bandaging and immobilization procedures using aseptic technique. | Perform dressing, bandaging and immobilization procedures using aseptic technique. | Perform dressing, bandaging and immobilization procedures using aseptic technique. | Perform dressing, bandaging and immobilization procedures using aseptic technique. |
| | | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| 5.6.b Treat burn. | S | S | S | S |
| | Identify the purposes of and indications for dressing a burn. | Identify the purposes of and indications for dressing a burn. | Identify the purposes of and indications for dressing a burn. | Identify the purposes of and indications for dressing a burn. |
| | Describe types of burn dressings. | Describe types of burn dressings. | Describe types of burn dressings. | Describe types of burn dressings. |
| | Demonstrate application of burn dressing. | Demonstrate application of burn dressing. | Demonstrate application of burn dressing. | Demonstrate application of burn dressing. |
| | | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| 5.6.c Treat eye injury. | S | S | S | S |
| | Identify the purposes of and indications for an eye dressing. | Identify the purposes of and indications for an eye dressing. | Identify the purposes of and indications for an eye dressing. | Identify the purposes of and indications for an eye dressing. |
| | Describe types of eye dressings. | Describe types of eye dressings. | Describe types of eye dressings. | Describe types of eye dressings. |
| | Demonstrate application of eye dressing. | Demonstrate application of eye dressing. | Demonstrate application of eye dressing. | Demonstrate application of eye dressing. |
| | | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| 5.6.d Treat penetration wound. | S | S | S | S |
| | Identify the purposes of and indications for dressing a penetration wound. | Identify the purposes of and indications for dressing a penetration wound. | Identify the purposes of and indications for dressing a penetration wound. | Identify the purposes of and indications for dressing a penetration wound. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|---|---|---|---|
| | Describe types of penetration wound dressings. | Describe types of penetration wound dressings. | Describe types of penetration wound dressings. | Describe types of penetration wound dressings. |
| | Demonstrate application of penetration wound dressing. | Demonstrate application of penetration wound dressing. | Demonstrate application of penetration wound dressing. | Demonstrate application of penetration wound dressing. |
| | | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| 5.6.e Treat local cold injury. | S | S | S | S |
| | Describe methods for local cold injury assessment. | Describe methods for local cold injury assessment. | Describe methods for local cold injury assessment. | Describe methods for local cold injury assessment. |
| | Identify the purposes of and indications for caring for local cold injury. | Identify the purposes of and indications for caring for local cold injury. | Identify the purposes of and indications for caring for local cold injury. | Identify the purposes of and indications for caring for local cold injury. |
| | Identify the types of tissue damage that may result from local cold injury. | Identify the types of tissue damage that may result from local cold injury. | Identify the types of tissue damage that may result from local cold injury. | Identify the types of tissue damage that may result from local cold injury. |
| | Demonstrate provision of care for local cold injury. | Demonstrate provision of care for local cold injury. | Demonstrate provision of care for local cold injury. | Demonstrate provision of care for local cold injury. |
| | | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. | Adjust to changes in patient presentation. |
| GENERAL COMPETENCY 5.7 Immobilize actual and suspected fractures. | | | | |
| SPECIFIC COMPETENCY | SUB COMPETENCIES | | | |
| 5.7.a Immobilize suspected fractures involving appendicular skeleton. | S | S | S | S |
| | Identify signs and symptoms of a possible fracture not involving the spinal column. | Identify signs and symptoms of possible fractures to the appendicular skeleton. | Identify signs and symptoms of possible fractures to the appendicular skeleton. | Identify signs and symptoms of possible fractures to the appendicular skeleton. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|--|---|---|---|
| | Distinguish between open and closed fractures. | Distinguish between open and closed fractures. | Distinguish between open and closed fractures. | Distinguish between open and closed fractures. |
| | | Evaluate commercially manufactured splints for use based on patient presentation. | Evaluate commercially manufactured splints for use based on patient presentation. | Evaluate commercially manufactured splints for use based on patient presentation. |
| | Modify splints to meet patient needs. | Modify splints to meet patient needs. | Modify splints to meet patient needs. | Modify splints to meet patient needs. |
| | | Explain how the mechanism of injury and illness can affect injuries to the appendicular skeleton. | Explain how the mechanism of injury and illness can affect injuries to the appendicular skeleton. | Explain how the mechanism of injury and illness can affect injuries to the appendicular skeleton. |
| | Demonstrate appropriate treatment to suspected fractures. | Perform appropriate treatment to suspected fractures. | Perform appropriate treatment to suspected fractures. | Perform appropriate treatment to suspected fractures. |
| 5.7.b Immobilize suspected fractures involving axial skeleton. | S | P | P | P |
| | Identify signs and symptoms of possible injury to the spinal column. | Identify signs and symptoms of possible fracture injury to the axial skeleton. | Identify signs and symptoms of possible fracture injury to the axial skeleton. | Identify signs and symptoms of possible fracture injury to the axial skeleton. |
| | | Describe the relationship of kinematics to potential spinal injury. | Describe the relationship of kinematics to potential spinal injury. | Describe the relationship of kinematics to potential spinal injury. |
| | | Evaluate commercially manufactured immobilization devices for use based on patient presentation. | Evaluate commercially manufactured immobilization devices for use based on patient presentation. | Evaluate commercially manufactured immobilization devices for use based on patient presentation. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|--|---|---|---|
| | Modify immobilization devices to meet patient needs. | Modify immobilization devices to meet patient needs. | Modify immobilization devices to meet patient needs. | Modify immobilization devices to meet patient needs. |
| | Demonstrate treatment of suspected fractures involving the axial skeleton. | Perform treatment of suspected fractures involving the axial skeleton. | Perform treatment of suspected fractures involving the axial skeleton. | Perform treatment of suspected fractures involving the axial skeleton. |
| GENERAL COMPETENCY 5.8 Administer medications. | | | | |
| SPECIFIC COMPETENCY | SUB COMPETENCIES | | | |
| 5.8.a Recognize principles of pharmacology as applied to the medications listed in Appendix 5. | N | A | A | A |
| | | Identify the sources for medications. | Identify the sources for medications. | Identify the sources for medications. |
| | | Describe mechanisms of entry, absorption, site of action, metabolism and elimination. | Explain mechanisms of entry, absorption, site of action, metabolism and elimination. | Explain mechanisms of entry, absorption, site of action, metabolism and elimination. |
| | | Perform calculation to determine the amount of medication required for expected action. | Perform calculation to determine the amount of medication required for expected action. | Perform calculation to determine the amount of medication required for expected action. |
| | | Explain factors that affect the absorption, distribution and elimination of a medication. | Explain factors that affect the absorption, distribution and elimination of a medication. | Explain factors that affect the absorption, distribution and elimination of a medication. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|----------|--|---|---|
| | | Identify indications, relative and absolute contraindications, side effects, dosage parameters, and safe administration process for each medication. | Discuss indications, relative and absolute contraindications, side effects, dosage parameters, and safe administration process for each medication. | Discuss indications, relative and absolute contraindications, side effects, dosage parameters, and safe administration process for each medication. |
| | | Identify drug classification. | Identify drug classification. | Identify drug classification. |
| | | Identify chemical, generic, trade and official names for all medications. | Identify chemical, generic, trade and official names for all medications. | Identify chemical, generic, trade and official names for all medications. |
| | | Discuss the information found within an appropriate medication references. | Explain the information found within an appropriate medication references. | Explain the information found within an appropriate medication references. |
| | | Explain formulations related to administration. | Explain formulations related to administration. | Explain formulations related to administration. |
| | | Define pharmacological terminology and abbreviations. | Define pharmacological terminology and abbreviations. | Define pharmacological terminology and abbreviations. |
| | | List the signs, symptoms and side-effects of iatrogenic overdose. | Discuss the signs, symptoms and side-effects of iatrogenic overdose. | Analyze the signs, symptoms and side-effects of iatrogenic overdose. |
| 5.8.b Follow safe process for responsible medication administration. | N | S | P | P |
| | | Explain the "Five Rights" of medication administration. | Explain the "Five Rights" of medication administration. | Explain the "Five Rights" of medication administration. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|-----|---|--|--|
| | | Distinguish between the different drug administration routes. | Distinguish between the different drug administration routes. | Distinguish between the different drug administration routes. |
| | | Describe how medication administration protocols are applied to specific patient presentations. | Discuss how medication administration protocols are applied to specific patient presentations. | Explain how medication administration protocols are applied to specific patient presentations. |
| | | Apply policies when medication administration errors occur. | Apply policies when medication administration errors occur. | Apply policies when medication administration errors occur. |
| | | Explain the role of the paramedic in medication administration. | Explain the role of the paramedic in medication administration. | Explain the role of the paramedic in medication administration. |
| | | Demonstrate how to provide medications using a sequential step method of administration. | Demonstrate how to provide medications using a sequential step method of administration. | Demonstrate how to provide medications using a sequential step method of administration. |
| | | Demonstrate how to prepare a patient for medication administration. | Demonstrate how to prepare a patient for medication administration. | Demonstrate how to prepare a patient for medication administration. |
| | | Demonstrate how to measure the required quantity of medication. | Demonstrate how to measure the required quantity of medication. | Demonstrate how to measure the required quantity of medication. |
| | | Set up the supplies required for the specific route of drug administration. | Set up the supplies required for the specific route of drug administration. | Set up the supplies required for the specific route of drug administration. |
| | | Receive consent before administration of medications. | Receive consent before administration of medications. | Receive consent before administration of medications. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|----------|--|---|---|
| 5.8.c Administer medication via subcutaneous route. | N | S | C | C |
| | | Identify medical conditions and indications for subcutaneous administration of a medication. | Evaluate medical conditions and indications for subcutaneous administration of a medication. | Evaluate medical conditions and indications for subcutaneous administration of a medication. |
| | | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. |
| | | Distinguish those approved drugs that are given via subcutaneous routes. | Distinguish those approved drugs that are given via subcutaneous routes. | Distinguish those approved drugs that are given via subcutaneous routes. |
| | | Evaluate appropriate site for the injection. | Evaluate appropriate site for the injection. | Evaluate appropriate site for the injection. |
| | | Discuss the benefit of medication administration via subcutaneous route in comparison to other routes. | Evaluate the benefit of medication administration via subcutaneous route in comparison to other routes. | Evaluate the benefit of medication administration via subcutaneous route in comparison to other routes. |
| | | Demonstrate how to provide subcutaneous medications using a sequential step method of administration. | Demonstrate how to provide subcutaneous medications using a sequential step method of administration. | Demonstrate how to provide subcutaneous medications using a sequential step method of administration. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|----------|---|--|--|
| | | Demonstrate how to prepare a patient for subcutaneous medication administration. | Demonstrate how to prepare a patient for subcutaneous medication administration. | Demonstrate how to prepare a patient for subcutaneous medication administration. |
| | | Demonstrate how to measure the required quantity of medication. | Demonstrate how to measure the required quantity of medication. | Demonstrate how to measure the required quantity of medication. |
| 5.8.d Administer medication via intramuscular route. | N | S | C | C |
| | | Identify medical conditions, and indications for intramuscular administration of a medication. | Evaluate medical conditions, and indications for intramuscular administration of a medication. | Evaluate medical conditions, and indications for intramuscular administration of a medication. |
| | | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. |
| | | Distinguish those approved drugs that are given via intramuscular routes. | Distinguish those approved drugs that are given via intramuscular routes. | Distinguish those approved drugs that are given via intramuscular routes. |
| | | Evaluate appropriate site for the injection. | Evaluate appropriate site for the injection. | Evaluate appropriate site for the injection. |
| | | Discuss the benefit of medication administration via intramuscular route in comparison to other routes. | Evaluate the benefit of medication administration via intramuscular route in comparison to other routes. | Evaluate the benefit of medication administration via intramuscular route in comparison to other routes. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|----------|--|--|--|
| | | Demonstrate how to provide intramuscular medications using a sequential step method of administration. | Demonstrate how to provide intramuscular medications using a sequential step method of administration. | Demonstrate how to provide intramuscular medications using a sequential step method of administration. |
| | | Demonstrate how to prepare a patient for intramuscular medication administration. | Demonstrate how to prepare a patient for intramuscular medication administration. | Demonstrate how to prepare a patient for intramuscular medication administration. |
| | | Demonstrate how to measure the required quantity of medication. | Demonstrate how to measure the required quantity of medication. | Demonstrate how to measure the required quantity of medication. |
| 5.8.e Administer medication via intravenous route. | N | X | P | P |
| | | List medical conditions and patient indications for intravenous administration of a medication. | Evaluate medical conditions and patient indications for intravenous administration of a medication. | Evaluate medical conditions and patient indications for intravenous administration of a medication. |
| | | | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. |
| | | | Distinguish those approved drugs that are given via intravenous routes. | Distinguish those approved drugs that are given via intravenous routes. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|----------|--|--|--|
| | | | Evaluate the benefit of medication administration via intravenous route in comparison to other routes. | Evaluate the benefit of medication administration via intravenous route in comparison to other routes. |
| | | | Demonstrate how to provide intravenous medications using a sequential step method. | Demonstrate how to provide intravenous medications using a sequential step method. |
| | | | Demonstrate how to prepare a patient for intravenous administration of a medication. | Demonstrate how to prepare a patient for intravenous administration of a medication. |
| | | | Demonstrate how to measure the required quantity of intravenous medication. | Demonstrate how to measure the required quantity of intravenous medication. |
| 5.8.f Administer medication via intraosseous route. | N | X | S | S |
| | | List medical conditions and patient indications for intraosseous administration of a medication. | List medical conditions and patient indications for intraosseous administration of a medication. | List medical conditions and patient indications for intraosseous administration of a medication. |
| | | | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|----------|--|---|---|
| | | | Distinguish those approved drugs that are given via intraosseous routes. | Distinguish those approved drugs that are given via intraosseous routes. |
| | | | Evaluate appropriate site for the injection. | Evaluate appropriate site for the injection. |
| | | | Evaluate the benefit of medication administration via intraosseous route in comparison to other routes. | Evaluate the benefit of medication administration via intraosseous route in comparison to other routes. |
| | | | Demonstrate how to provide intraosseous medications using a sequential step method. | Demonstrate how to provide intraosseous medications using a sequential step method. |
| | | | Demonstrate how to prepare a patient for intraosseous administration of a medication. | Demonstrate how to prepare a patient for intraosseous administration of a medication. |
| | | | Demonstrate how to measure the required quantity of intraosseous medication. | Demonstrate how to measure the required quantity of intraosseous medication. |
| 5.8.g Administer medication via endotracheal route. | N | X | S | S |
| | | List medical conditions and patient indications for endotracheal administration of a medication. | List medical conditions and patient indications for endotracheal administration of a medication. | List medical conditions and patient indications for endotracheal administration of a medication. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|-----|-----|---|---|
| | | | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. |
| | | | Evaluate the benefit of medication administration via endotracheal route in comparison to other routes. | Evaluate the benefit of medication administration via endotracheal route in comparison to other routes. |
| | | | Distinguish those approved drugs that are given via endotracheal route. | Distinguish those approved drugs that are given via endotracheal route. |
| | | | Evaluate the benefit of medication administration via endotracheal route in comparison to other routes. | Evaluate the benefit of medication administration via endotracheal route in comparison to other routes. |
| | | | Demonstrate how to provide endotracheal medications using a sequential step method. | Demonstrate how to provide endotracheal medications using a sequential step method. |
| | | | Demonstrate how to prepare a patient for endotracheal administration of a medication. | Demonstrate how to prepare a patient for endotracheal administration of a medication. |
| | | | Demonstrate how to measure the required quantity of endotracheal medication. | Demonstrate how to measure the required quantity of endotracheal medication. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|----------|--|---|---|
| 5.8.h Administer medication via sublingual route. | N | S | C | C |
| | | Evaluate medical conditions, and indications for sublingual administration of a medication. | Evaluate medical conditions, and indications for sublingual administration of a medication. | Evaluate medical conditions, and indications for sublingual administration of a medication. |
| | | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. |
| | | Distinguish those approved drugs that are given via sublingual routes. | Distinguish those approved drugs that are given via sublingual routes. | Distinguish those approved drugs that are given via sublingual routes. |
| | | Discuss the benefit of medication administration via sublingual route in comparison to other routes. | Evaluate the benefit of medication administration via sublingual route in comparison to other routes. | Evaluate the benefit of medication administration via sublingual route in comparison to other routes. |
| | | Demonstrate how to provide sublingual medications using a sequential step method of administration. | Demonstrate how to provide sublingual medications using a sequential step method of administration. | Demonstrate how to provide sublingual medications using a sequential step method of administration. |
| | | Demonstrate how to prepare a patient for sublingual medication administration. | Demonstrate how to prepare a patient for sublingual medication administration. | Demonstrate how to prepare a patient for sublingual medication administration. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|---|----------|---|---|---|
| | | Demonstrate how to measure the required quantity of sublingual medication. | Demonstrate how to measure the required quantity of sublingual medication. | Demonstrate how to measure the required quantity of sublingual medication. |
| 5.8.i Administer medication via topical route. | N | X | S | S |
| | | List medical conditions and patient indications for topical administration of a drug. | Evaluate medical conditions, and indications for topical administration of a medication. | Evaluate medical conditions, and indications for topical administration of a medication. |
| | | | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. |
| | | | Distinguish those approved drugs that are given via topical routes. | Distinguish those approved drugs that are given via topical routes. |
| | | | Evaluate the rate of absorption of medication administered via topical route in comparison to other routes. | Evaluate the rate of absorption of medication administered via topical route in comparison to other routes. |
| | | | Evaluate the benefit of medication administration via topical route in comparison to other routes. | Evaluate the benefit of medication administration via topical route in comparison to other routes. |
| | | | Demonstrate how to provide topical medications using a sequential step method of administration. | Demonstrate how to provide topical medications using a sequential step method of administration. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|----------|--|--|--|
| | | | Demonstrate how to prepare a patient for topical medication administration. | Demonstrate how to prepare a patient for topical medication administration. |
| | | | Demonstrate how to measure the required quantity of topical medication. | Demonstrate how to measure the required quantity of topical medication. |
| 5.8.j Administer medication via oral route. | N | S | C | C |
| | | Evaluate medical conditions and indications for oral administration of a medication. | Evaluate medical conditions and indications for oral administration of a medication. | Evaluate medical conditions and indications for oral administration of a medication. |
| | | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. |
| | | Distinguish those approved drugs that are given via oral routes. | Distinguish those approved drugs that are given via oral routes. | Distinguish those approved drugs that are given via oral routes. |
| | | | Evaluate the rate of absorption of medication administered via oral route in comparison to other routes. | Evaluate the rate of absorption of medication administered via oral route in comparison to other routes. |
| | | Discuss the benefit of medication administration via oral route in comparison to other routes. | Evaluate the benefit of medication administration via oral route in comparison to other routes. | Evaluate the benefit of medication administration via oral route in comparison to other routes. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|----------|--|--|--|
| | | Demonstrate how to provide oral medications using a sequential step method. | Demonstrate how to provide oral medications using a sequential step method. | Demonstrate how to provide oral medications using a sequential step method. |
| | | Demonstrate how to prepare a patient for oral administration of a medication. | Demonstrate how to prepare a patient for oral administration of a medication. | Demonstrate how to prepare a patient for oral administration of a medication. |
| | | Demonstrate how to measure the required quantity of oral medication. | Demonstrate how to measure the required quantity of oral medication. | Demonstrate how to measure the required quantity of oral medication. |
| 5.8.k Administer medication via rectal route. | N | X | A | A |
| | | List medical conditions and indications for rectal administration of a medication. | List medical conditions and indications for rectal administration of a medication. | List medical conditions and indications for rectal administration of a medication. |
| | | | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. |
| | | | Distinguish those approved drugs that are given via rectal routes. | Distinguish those approved drugs that are given via rectal routes. |
| | | | Evaluate the rate of absorption of medication administered via rectal route in comparison to other routes. | Evaluate the rate of absorption of medication administered via rectal route in comparison to other routes. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|----------|--|---|---|
| | | | Evaluate the benefit of medication administration via rectal route in comparison to other routes. | Evaluate the benefit of medication administration via rectal route in comparison to other routes. |
| 5.8.1 Administer medication via inhalation. | N | S | C | C |
| | | Evaluate medical conditions, and indications for inhalation administration of a medication. | Evaluate medical conditions, and indications for inhalation administration of a medication. | Evaluate medical conditions, and indications for inhalation administration of a medication. |
| | | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. | Apply proper calculations for correct medication requirement for the patient presentation. |
| | | Distinguish those approved drugs that are given via inhalation. | Distinguish those approved drugs that are given via inhalation. | Distinguish those approved drugs that are given via inhalation. |
| | | Discuss the benefit of medication administration via inhalation in comparison to other routes. | Evaluate the benefit of medication administration via inhalation in comparison to other routes. | Evaluate the benefit of medication administration via inhalation in comparison to other routes. |
| | | Demonstrate how to provide inhalation medications using a sequential step method. | Demonstrate how to provide inhalation medications using a sequential step method. | Demonstrate how to provide inhalation medications using a sequential step method. |
| | | Demonstrate how to prepare a patient for inhalation administration of a medication. | Demonstrate how to prepare a patient for inhalation administration of a medication. | Demonstrate how to prepare a patient for inhalation administration of a medication. |

Area 5 Therapeutics

| | EMR | PCP | ACP | CCP |
|--|------------|--|--|--|
| | | Demonstrate how to measure the required quantity of inhalation medication. | Demonstrate how to measure the required quantity of inhalation medication. | Demonstrate how to measure the required quantity of inhalation medication. |