## Simulated Patient Scenario Objectives and Descriptions

| Simulation Scenario                                      | Learning Objectives                                                                                       | Description                                                                                     | Physical Conditions                                                                                                                   |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Care of patient on mechanical ventilation                | 1. Assess the ETT cuff pressure.  
2. Practice tracheostomy and stoma care  
3. Practice prone position technique  
4. Trouble shoot the ventilator alarms  
5. Change the ETT placement  
6. Practice ETT suction  
7. Practice TT suction  
8. Apply DVT prevention device | Positive COVID-19, intubated and connected to volume control mode. Sedated with fentanyl. P/F ratio was 55.  
Prone position ventilation tried once, and saturation improved slightly.  
After few days, it has been decided to insert tracheotomy tube with mechanical ventilation support | • Continuous MV alarm of high peak pressure  
• BIS =90  
• CPOT=3  
• BP=110/70 mm Hg  
• Temperature=38.6 C  
• RR=24/min  
• HR=120/min  
• O2Sat=94%  
• FiO2 =80%  
• ABGs (PH=7.2, Paco2:60, Pao2:60, Hco3:14) |
| Simulation Scenario                                                                 | Learning Objectives                                                                 | Description                                                                                                           | Physical Conditions                      |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| ABCDE assessment and oxygen therapy                                                | 1. Perform ABCDE assessment and to manage accordingly                               | Positive COVID-19 on face mask with oxygen 6 L/min                                                                   | • P/F ratio of 200                        |
|                                                                                   | 2. Decide on the appropriate oxygen therapy based on patient condition              | After a few minutes, the simulated mannequin and monitor showed short of breath with O2Sat=87%                        | • ABGs                                    |
|                                                                                   |                                                                                     |                                                                                                                      | (PH=7.3, Paco2:66, Pao2:70, Hco3:30)      |                                          |
| Care of patient with invasive lines and chest tube                                | 1. Perform central line zeroing                                                      | Positive COVID-19, intubated with pressure control mode, has central line and arterial line monitoring. A chest tube was inserted for hemopneumothorax as complication after central line insertion. On vasopressor support | • BP=100/50 mm Hg                         |
|                                                                                   | 2. Perform arterial line zeroing                                                     |                                                                                                                      | • Temperature=38.0 C                      |
|                                                                                   | 3. Perform central line and arterial line dressing care                              |                                                                                                                      | • RR=16/min                               |
|                                                                                   | 4. Perform chest tube monitoring and care                                            |                                                                                                                      | • HR=130/min                              |
|                                                                                   |                                                                                     |                                                                                                                      | O2Sat=90%                                 |
|                                                                                   |                                                                                     |                                                                                                                      | • FiO2=60%                                |
|                                                                                   |                                                                                     |                                                                                                                      | • CVP=10                                  |
| Simulation Scenario | Learning Objectives | Description | Physical Conditions |
|---------------------|---------------------|-------------|---------------------|
| Oral, eye, NGT, and urinary catheter care | 1. Perform oral care | Positive COVID-19, intubated on CPAP mode. | • BP=110/70 mm Hg Temperature=37.8 C |
|                     | 2. Perform eye care | NGT was ordered for continuous feeding. | • RR=24/min |
|                     | 3. Perform urinary catheter care | Eye, mouth, and urinary catheter care are required | • HR=100/min |
|                     | 4. Perform NGT insertion and care | | • O2Sat=95% |
|                     |                     | (Norepinephrine 0.3 mic/kg/min). | • FiO2=30% |

(BIS: Bi Spectral Index), (ABCDE: Airway, Breathing, Circulation, Disability, Exposure), (MV: Mechanical Ventilator), (CPAP: Continuous Positive Airway Pressure), (CPOT: Critical Care Pain Observation Tool), (FiO2: Fraction of inspired oxygen), (P/F ratio: Pao2/Fio2), (CVP: Central Venous Pressure).