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 2. Decide on the appropriate oxygen therapy based on patient condition	Positive COVID-19 on face mask with oxygen 6 L/min After a few minutes, the simulated mannequin and monitor showed short of breath with O2Sat=87%	• P/F ratio of 200 • ABGs (PH=7.3, Paco2:66, Pao2:70, Hco3:30) • Temperature=38C • BP=120/60 mm Hg • RR=26/min • HR=120/min O2Sat=90%
Care of patient with invasive lines and chest tube	1. Perform central line zeroing 2. Perform arterial line zeroing 3. Perform central line and arterial dressing care 4. Perform chest tube monitoring and care	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 Temperature=38.0 C • RR=16/min • HR=130/min O2Sat=90% • FiO2=60% • CVP=10

Simulation Scenario	Learning Objectives	Description	Physical Conditions
		(Norepinephrine 0.3 mic/kg/min).	
Oral, eye, NGT, and urinary catheter care	1. Perform oral care 2. Perform eye care 3. Perform urinary catheter care 4. Perform NGT insertion and care	Positive COVID-19, intubated on CPAP mode. NGT was ordered for continuous feeding. Eye, mouth, and urinary catheter care are required	• BP=110/70 mm Hg Temperature=37.8 C • RR=24/min • HR=100/min O2Sat=95% • 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).