SIPTEC Simulation Scenario Template

Note: Standard simulation terminology definitions can be accessed at <u>https://www.ssih.org/dictionary</u>.

Section I.	Demographics							
Scenario Title	Cystic Fibrosis Exacerbation							
Brief Scenario Description	A 24 year old patient with CF was admitted to the hospital with a lung infection. Students							
(1-2 sentences)	must conduct an evaluation and respond appropriately to change in status (drop in SpO2)							
Target Learning Group(s)	IPE Scenario 🗆 Yes 🗵 No							
(discipline(s)/IPE, academic level)								
	Second or third year physical therapy students							
Course/Content Area	Cardiopulmonary, acute care							
(e.g., cardiovascular, geriatrics, etc.)								
Scenario Setting	Hospital floor							
Realism/Fidelity	Conceptual/Psychological							
(Select most important dimension(s)):	(i.e., the degree of perceived realism, including psychological factors such as emotions, beliefs, and self- awareness of participants in simulation scenarios (<i>Healthcare Simulation Dictionary</i> , 2 nd ed.))							
	\square Physical							
	(i.e., the degree to which the simulation looks, sounds, and feels like the actual task (<i>Healthcare Simulation Dictionary</i> , 2^{nd} ed.))							
	Finvironmental							
	(i.e., the degree to which the simulated environment (manikin, room, tools, equipment, moulage, and sensory props) replicated reality and appearance of the real environment (<i>Healthcare Simulation Dictionary, 2nd ed.</i>))							
Keywords	cystic fibrosis, pulmonary, oxygen saturation							
Estimated Time Frame for Single	20-30 min							
Simulated Encounter								
(Excluding prebrief and debrief)								
Suggested Patient/Learner Ratio	1 patient (role-play by a student), 2 active participants, 3-4 observers							

Section II.	Curricular Information/Learning Objectives
Educational Rationale (Broad educational goal, purpose; why this simulation-based learning is important)	Students will conduct an accurate focused assessment for a patient with pulmonary pathology in the acute care setting. Students will maintain patient safety during mobilization and respond appropriately to changes in status throughout the interaction.

Learning Objectives

Provide 2-4 learning objectives for this event. Please ensure these goals are:

- SMART: specific, measurable, action-oriented, realistic, and within a time frame.
- Considerate of the level of the learner
- Aligned with the overall program outcomes
- IPE scenarios must include learning objectives inclusive of all participating professional disciplines.

Consider the following action verbs when constructing learning objectives:

Domain		Pre-Le	arning*		Simulati	ion Level			
	Knowledge	Remember	Understand	Apply	Distinguish	Access	Generate		
		Recognize	Interpret	Use	Organize	Summarize	Plan		
		Identify	Explain	Solve	Select	Initiate	Prioritize		
	Psychomotor	Hear	Adjust	Сору	Adjust	Adapt	Design		
	Skills	Touch	Locate	Discover	Build	Develop	Construct		
		See	Prepare	Inject	Mix	Change	Create		
	Affective	Accept	Cooperate	Explains	Invites	Defends	Qualify		
		Reply	Obey	Completes	Proposes	Generalizes	Influence		
Obj	• Observable a • Observable a • Ider • Dete •	Following this activity ctions: Provide a list of tify important informa- ermine communication	, learners will be ab of steps or actions the ation during a chart n needs with other t	ble to: Interpret c hat may be obser t review and pati team members pr	ritical information wed during a simu ent assessment rior to patient exam	n on patient status Ilation to indicate mination.	s and activity readi that the learners h	ness nave met this objective	
Obj	ective 2	Following this activity pathology in the acute	, learners will be at care environment	ole to: Select an	d perform approp	riate examination	n measures for a pa	tient with pulmonary	
	Observable a	ctions: Provide a list o	of steps or actions t	hat may be obser	ved during a simu	lation to indicate	that the learners h	nave met this objective	
	 Monitor vital signs at rest and throughout session, including SpO2 and dyspnea scale 								
	o Perf	form lung auscultation							
	o Perf	form an activity assess	ment						

Objective 3	Following this activity, learners will be able to: Adapt treatment strategies based on a change in patient status
• Observal o	ble actions: Provide a list of steps or actions that may be observed during a simulation to indicate that the learners have met this objective. Modify intensity of physical activity or give rest break in response to a drop in SpO2
0	Instruct the patient in breathing strategies (pursed lip, paced breathing) and/or airway clearance to improve ventilation
0	Titrate oxygen as appropriate
Other:	

Section III. Prebrief/Orientation/Preparatory Information

Prebriefing serves as an opportunity to establish a safe learning environment and provide preparatory information related to the simulation-based learning experience. Provide a list of key information to be provided to learners prior to the simulation experience, including, but not limited to related didactic content, learning objectives, activity logistics, simulation fiction contract, confidentiality, orientation to the simulation environment and related equipment, and assessment.

An example of a prebrief checklist is located at <u>https://www.nln.org/docs/default-source/uploadedfiles/professional-development-programs/sirc/pre-briefing-elements.pdf?sfvrsn=726a60d_0</u>. Please use this section to provide an outline of items necessary to be covered in the prebrief for this scenario.

Specific Logistical	Didactic content covered before simulation includes pulmonary system pathology, examination and								
Information for	treatment, specifically the PT role in monitoring SpO2 and appropriate response to changes in SpO2.								
Prebrief	Simulated medical chart provided to all participants 4-5 days prior to the simulation which includes patient								
	demographics, history, medications, lab values, recent pulmonary function testing results, and current vi								
	signs.								
	Pre-brief occurs in 2 parts. The first portion includes all participants/observers in a large group: review								
	SBLE and general structure, confidentiality and fiction contract, how they will be evaluated (low stakes),								
	and introduction to the environment.								
	The second portion occurs after the first and is done with each simulation group individually immediately								
	prior to the simulation experience. This portion includes a review and discussion of their assignment (see								
	below) including a discussion of important information from the chart review and their plan for the session,								
	orientation to the patient room and monitoring equipment, and assignment of roles for the simulation.								
	Each simulation group is required to submit a pre-brief assignment in which they identify pertinent								
	medications, labs and tests and why they are relevant, any precautions or contraindications, prioritized								
	subjective and objective exam data needed, treatment expectations, discharge planning issues and								
	expectations, and identify information that would need to be discussed with other team members. Each								

	group lists this information in a table and it is due 1-3 hours prior to the simulation experience. Students have 4-5 days to complete this assignment using the provided medical chart and prior coursework but typically need 2-3 hours. It is given early to allow groups to find adequate time for collaboration.
	See attached information. (Information for medical chart)

Section IV.	Scenario Set Up Materials: Equipment and Supporting Objects										
Select Setting	 ☑ Inpatient (IP) (If se ☑ Acute Hosp □ IP-Sub Acut □ Outpatient (If selection) 	 ☑ Inpatient (IP) (If selected, proceed to section IV. A below) ☑ Acute Hospital Based (e.g., ICU, Emergency Room) □ IP-Sub Acute (e.g., SNF, ALF, Sub-Acute rehab) □ Outpatient (If selected, proceed to section IV. B below) 									
	Community Based	(If selected, proceed	to section IV. C below,)							
	□ Other:										
What type of manikin(s)/patient(s) is/are needed for this scenario? (Select all that apply)	 Adult Manikin Child Manikin Infant Manikii Newborn Manikii Preemie Manii Maternal Delivery Aduii Task Trainer Simulated Patient Other: 	n nikin ikin 1lt Manikin									
Manikin(s)/patient(s) set up considerations:	□ Gender: □ Moulage: □ Other: □ See attachment for s	⊠ Age: ~24 □ Voice:	☐ Race: ⊠ Position (of manil	Attire/Clothing: Hospital gown kin(s)/patient(s)): Supine in hospital bed							

Inpatient (Acute - Sub-Acute - ICU - ER) Section IV. A

Use the code below for each item in the following section that you select:

I = Initial (should be set up at start of simulation) R = In room and ready for use A = Available if needed and asked for (not in room)

P = Attached to patient

Monitor	`S								
Code		Code		Code		Code		Code	
	Capnograph (CO2 in the bloodstream monitor)		 Electrocardiogram (EKG, ECG) Telemetry (# of Leads): 		□ Extracorporeal Membrane Oxygenation (ECMO)		□□ Hemedex (Blood Perfusion Monitor, BPM)		□□ Intracranial Pressure (ICP) Monitor
Ι	 Noninvasive Blood Pressure (NIBP) Monitoring 		Patient Bedside Monitor	Ι	☑ Pulse Oximeter (Saturation monitor)		□ Ventilator		□ Vital Sign Monitor (e.g., Dynamap)
	□ Other:								
Lines			-	-	r	-	r	_	1
Code	Arterial Line	Code	Central Venous Pressure	P	 Intravenous (IV) Lines (with fluid bags): Intravenous (IV) Pole 	Code	Percutaneously Inserted Central Catheter (PICC) Line	Code	Other:
Feeding									
Code		Code		Code					
	□ Nasogastric (NG) Tube		 Percutaneous Endoscopic Gastrostomy (PEG) Tube 		□ Other:				
Airway									
Code		Code		Code		Code		Code	
	Continuous Positive Airway Pressure (CPAP)		□ Endotracheal (ET) Tube		□ Face Mask □ Non-Rebreather Mask □ Bag Valve Mask	Р	⊠ Nasal Canula		□ Suction Catheter (e.g., Yankauer) □ Collection unit
I	Supplemental Oxygen – patient on 4L/min via NC at start of simulation, with ability to increase or decrease by 1-2 L/min		☐ Tracheostomy Tube ☐ Cuffed ☐ Uncuffed:		□ Other:				

Other P	atient Equipment								
Code		Code		Code		Code		Code	
	□ Chest Tube with		External Ventricular		□ Indwelling Foley		□ Sequential		□ Temporary
	Collecting Unit		Drain (EVD)		Catheter		Compression		Pacemaker
							Devices (SCD)		
	□ Wound Vacuum-		□ Other:						
	Assisted Closure								
	(VAC)								
Durable	Medical Equipment							-	
Code		Code		Code		Code		Code	
R	\boxtimes Assistive devices		Bath Chair	I	\boxtimes Bed		□ Bedside Commode		□ Patient Lift
	🛛 Walker				🖾 Hospital				Specify:
	□ Standard				□ Specialized:				
	🛛 Rolling								
	□ Other				□ Crib				
					□ Incubator				
	□ Type:								
	□ Cane								
	□ Type:								
	⊠ Other: w/c								
	Portable Oxygen:		□ Wheelchair		□ Other:				
Addition	nal Doom Fauinmont		□ Type.						
Code	nai Koom Equipment	Code	1	Code		Code		Code	
R	🛛 Bedside	Code	Code Cart	R	🛛 Garbage Receptacle	Code	□ Overbed Table	Couc	Sharps Dispenser
R	Chair/Recliner:			i c					
	$\Box \boxtimes$ Other: Gowns, g	loves, mas	sks (located on cart just outs	side of the r	coom)			-	
Patient	ID Band(s)	, ,			,				
Code		Code		Code		Code		Code	
Ι	Allergies: latex		Code Status: Full		⊠ DOB:05/20/1998		□ Fall Risk:		⊠ Name: Jo Murphy
					(year should be adjusted				
					so patient is 24)				
	□ Simulated ID		⊠ Other: Contact/Drop	olet isolatio	n precautions				
	Number:								
Miscella	ineous Items				T		I		
Code		Code		Code		Code		Code	
	Cervical Collar		🖾 Gait Belt	R	⊠ Gloves	R	⊠ Gowns		\square Manual Blood
									Pressure Cutt
K	🖂 Masks		⊔ Ophthalmoscope		⊔ Otoscope		⊔ Restraints:		⊔ Splints:
			⊔ Thoracic Lumbar		□ Timer/Stopwatch		□ Other:		

		Sacral Orthotic (TLSO)		
Comment	S:			

Section IV. B Outpatient

Use the code below for each item in the following section that you select:

I = Initial (should be set up at start of simulation) R = In room and ready for use A = Available if needed and asked for (not in room)

P = Attached to patient

General	General Physical Therapy Equipment										
Code		Code		Code		Code		Code			
	□ Adjustable Height		□ Assistive devices		□ Bolsters		□ Chairs:		□ Floor Mat		
	Exercise Steps		□ Walker		□ Wedges						
			□ Standard		□ Supports:						
			□ Rolling								
			□ Crutches								
			□ Type:								
			□ Cane								
			🗆 Туре:								
			□ Other:								
	□ Linens		□ Mat Table		□ Mirrors:		□ Mobilization Belts		D Patient Lift		
	□ Gowns:						and Devices:		Specify:		
	\Box Towels:										
	□ Sheets:										
	\Box Pillows:										
	□ Pillowcases:										
	□ Blankets:										
	□ Rolling Stools:		□ Step Stools:		□ Treatment Table		□ Other:				
					□ Wooden Plinth						
					□ High-Low						
Dovioos	for Tosts and Massura				Adjustable						
Code	for rests and wreasures	Code		Code		Code	1	Code			
	□ Blood Pressure Cuff	2000	□ Force Plate		□ Goniometers		Grip Dynamometer	2000	□ Inclinometer		
			Assessment				1 2				
	□ Isokinetic Testing		□ Manual Muscle				□ Neurological		□ Reflex Hammer		
			Dynamometer		Sensation Testing		Testing Instruments				
	□ Scoliometer		\Box Sit and Reach Test		□ Stethoscope		□ Tape Measurer		□ Thermometer		
			Box		1		1				

	□ Other:								
Modalit	ies			-					
Code		Code		Code		Code		Code	
	□ First Aid Kits		□ Hot Packs		☐ Ice Packs ☐ Ice Massage Cups		□ Iontophoresis Unit		☐ Multiple Mode Electrical Stimulator (MMES) ☐ Electrodes
	□ Paraffin Bath		□ Soft Tissue Mobilization Cream		□ Traction Unit Specify:		□ Ultrasound Device and Gel		□ Vasopneumatic Compression Device
	U Wound Care		□ Other:						
	Supplies								
Educati	onal Materials	Cada		Cada					
Code	Anotomical Model:	Code	D Posters:	Code	□ Other:				
Fitness /	Exercise Equipment								
Code		Code		Code		Code		Code	
	□ Adjustable Height Pulleys		□ Alter-G Anti- Gravity Treadmill		□ Balance Boards		Blood Flow Restriction Bands		□ Body Weight Support System
	□ Child-Sized Bicycle □ Training Wheels		Cube Chairs		□ Cuff Weights:		Dumbbells:		□ Medicine Balls
	☐ Multi-Purpose, Multi-Joint, Adjustable Resistive Machine		□ Parallel Bars		□ Pilates Reformer		□ Plyometric Equipment		Putty
	□ Reciprocal Pulley		□ Resistive Tubing/ Bands		□ Scooter (2 and 3- Wheeled)		□ Scooter Boards with Handles		□ Supine Shuttle-Style Leg Press Machine
	□ Toys:		□ Trampoline		□ Treadmill		Tricycle		□ Upper Body Ergometer
	□ Upright /Recumbent Bike		□ Various Sports Performance Equipment (e.g., rebounder, agility ladder, specific ball, etc.):		□ Wall Bars		□ Other:		
Miscella	neous Items	G 1				C 1		C 1	
Code		Code		Code		Code		Code	

Defibrillator (AED)	□ Gait Belt	□ Narcan	☐ Orthotics/Splinting Materials:	□ Taping Supplies
□ Timer/Stopwatch	□ Other:			
Comments:				

Section IV. C **Community-Based Settings**

Use the code below for each item in the following section that you select:

I = Initial (should be set up at start of simulation)

R = In room and ready for useA = Available if needed and asked for (not in room)

P = Attached to patient

Code	Home Setting	Code	School-Based Setting	Code	Sports Setting	Code	Other Setting
	Room/Furniture Setup:		Describe Area / Room Setup:		Specify:		Describe Room Setup:
				-			
			Cafeteria				
		_			Automoted External		
					Defibrillator (AED)		
			Outdoor Field	-			
	Stairs:	-	Physical Education		Narcan		
	Other:		Playground		Sport Specific		
					Equipment:		
			Other School Environment (e.g.,		U Other:		
			transportation/bus ramp):				
Comme	nts:						

Section V.	Clinical Context
Case Summary (for facilitators): Brief summary of case progression and major events	The patient is a 24 year old with CF exacerbation and bacterial infection of the lungs. The patient is independent with bed mobility and requires supervision with transfers and ambulation. SpO2 decreases below 90% on 4 L/min oxygen with minimal activity (standing, walking within room). SpO2 will improve with positioning, cues for breathing strategies and airway clearance. Will also improve with rest but more slowly. The patient wants to get walking, is not concerned about the decrease in SpO2
Case Stem (for learners): To be provided to learners immediately prior to entering the simulation room	See information from medical chart
Patient Information	 Name: Jo Murphy Age/DOB: 24; 5/20/97 Gender: M/F Height: Weight: Chief Complaint: shortness of breath History of Present Illness/Symptoms: Patient noticed increased mucus production over past 2 weeks which became greenish brown and thicker, difficult to expectorate; also developed general malaise, decreased appetite, increased dyspnea and leg fatigue with walking. Initially started on inhaled antibiotic (Tobramycin) as an outpatient and increased frequency of airway clearance. However dyspnea continued to worsen, with episodes of hemoptysis and development of fever. Admitted to hospital 5 days ago with SpO2 87% on room air. Sputum cultures positive for <i>Pseudomonas aeruginosa</i> and <i>methicillin-resistance Staphylococcus aureus</i>. Primary Medical Diagnosis: CF exacerbation due to bacterial infection of the lungs Status/Attentiveness: Stable condition; good health literacy and familiarity with condition Patient Affect/Behavior: Wants to get back to school Past Medical History: Cystic fibrosis diagnosed during newborn screening, 2 previous hospitalizations for CF exacerbations 5 and 7 years ago Family Medical History: Social History: The patient is a college student, in grad school and needs to be able to walk across campus Home Environment: Lives with roommate in apartment with stairs Prior Level of Function: Independent; performs airway clearance with Vest and Acapella devices 2x/day Review of Systems: Medications (Medicine, Dosage, Reason for Medication): D 5 0.45 NS 40 ml/hr IV continuous

 Ceftazidime 2 mg IV every 24 hours - antibiotic
 Pulmozyme 2.5 mg neb daily - mucolytic
 Combivent 2 puffs inhaled every 6 hours - bronchodilator
 Tobramycin 300 mg neb every 12 hours - antibiotic
 Prednisolone 60 mg po daily - steroid
 Pancrelipase 35 KU po with meals – enzymes for digestion
 Omeprazole 20 mg po daily – proton-pump inhibitor (for heartburn)
• Tylenol 650 mg po every 4 hours prn fever or mild pain
• Allergies: Latex
• Other: Contact/droplet precautions
•

Patient Electronic Medical Record (EMR) Data							
Labs							
N/A: □							
Complete Blood C	Count (CBC)						
WBC	15.2	Platelets	325	Hgb	20	Hct	56
Basic Metabolic P	Basic Metabolic Panel (BMP)						
Glucose	202	Ca		Na		К	
Bicarb		Cl		BUN		Cr	
PO4		Mg		T3		T4	
TSH							
Liver Function/H	epatic Panel						
Serum Albumin		Serum Prealbumin		Serum Bilirubin		Ammonia (NH3)	
Lipid Panel							
HDL		LDL		Triglycerides		Total Cholesterol	
Bleeding Ratio/Vi	scosity						

INR	APTT		Prothrombin Time		
Cardiovascular-Specific Labs					
BNP	СК		Troponin		
Tests Included	l in EMR				
EKG	🗆 Yes 🖾 No	EEG	□ Yes □ No	X-Rays	⊠ Yes □ No
EMG	🗆 Yes 🗆 No	CT	□ Yes □ No	MRI	□ Yes □ No
Other	Pulmonary function tests showi (see medical chart info)	ng FVC (60% predicted; FEV1 43% predicted; F	EV1/FVC 70%]	PEF 52%; TLC 110%; FRC 122%; IC 64%

Baseline Presentation											
Vitals											
N/A: □											
Baseline vitals	🛛 Yes	HR	86	BP	122/82	RR	20	Temp.	98.9	SpO2	94% on
displayed at	🗆 No										4L/min
start:	[

Embedded Participant Script(s)						
One row for each embedded p	One row for each embedded participant:					
Role	Name	Script/Notes (consider when and how they will participate in the scenario)				
Rehab tech		This person is a second PT student role-playing a rehab tech and is available to support the PT with line management, w/c follow, or other tasks as directed by the PT within their scope				

Brief Case Summary for Patient:

You are a 24 year old with good health literacy and insight into your medical condition. You are able to manage independently while away from home at grad school. You are worried about missing so much school and want to get moving so you can get out of the hospital, however you become short of breath with minimal activity and SpO2 decreases. You are not worried about it and want to keep going with mobility and exercise, need cues from the PT to slow/stop activity when SpO2 drops. You tend to adopt rapid, shallow breathing pattern with exercise

Opening Line:

(What do you want the patient to say at the beginning of the experience?)

Challenge Question(s):

(Question patient is to ask the learner during the experience + answer to the question)

Q:Can I walk in the halls after you leave?

A: Need to progress activity slowly due to pulmonary infection and dyspnea, also need to monitor SpO2 closely and take supplemental oxygen, so at this time need PT, RT, RN to accompany

Other:

Patient/SP Scripting and Cues	
Identify questions the learner may ask durin	g the experience that require a specific answer and provide the answer to the question. For all other questions, the
patient can "use their own" information.	
Prompts	Scripted Questions and Corresponding Responses
Patient responses to anticipated interview	Q: Do you perform airway clearance at home? A: Typically perform independently 2x/day using the Vest and
questions or other triggers:	an Acapella device
	Q: Rate your breathlessness A: At rest can be 0-1; with activity should be 4-5/10; Can use any high number if
	not explained well or shown a copy of the dyspnea scale
Questions the patient MUST ask:	Q: Can I walk in the halls after you leave?
	A: Need to progress activity slowly due to pulmonary infection and dyspnea, also need to monitor SpO2 closely
	and take supplemental oxygen, so at this time need PT, RT, RN to accompany
Questions the nations will ask if given the	When can I leave the hospital?
opportunity:	when can't leave the hospital?
opportunity.	

Information that should be shared or withheld by the patient:	
Patient goals:	The patient would like to get out of the hospital and return to school; currently in graduate school and is worried about missing so much

Patient Presentation					
Use this section to document h	Use this section to document how the SP should present physically in response to screening/tests and measures.				
Body System/Skill	Involved	Details			
Neurological	\Box Yes \boxtimes No	Good standing balance			
Respiratory	⊠ Yes □ No	Rapid, shallow breathing pattern initially, and wheezes until gets meds from nursing or airway clearance performed. Fatigues with minimal exertion (walking within the room, <15 feet), reports dyspnea 4-5/10 and SpO2 decreases to 85-89% during walking within the room or with prolonged activity lasting >15 seconds if the student performs any exercises (such as seated or standing marching, squats or repeated sit to stand transfers).			
Integumentary	\Box Yes \boxtimes No				
Cardiovascular	🖾 Yes 🗆 No	Fatigues quickly with activity (see above). SpO2 decreases to 85-89% on 4L/min oxygen via NC and HR increases 20-30 bpm with walking within room <15 feet or with prolonged activity/exercise > 15 sec			
Musculoskeletal	\Box Yes \boxtimes No	Normal strength of upper and lower extremities			
Affect/Behavior/Cognition	\Box Yes \boxtimes No	A&Ox3			
Communication	\Box Yes \boxtimes No				
Functional Ability	🗆 Yes 🗵 No				

Section VI. Scenario Facilitation

Scenario States, Trigger Points, and Critical Actions

Critical actions are the actions to be taken by learners to meet the learning objectives of the scenario. These are the skills you would like the learners to perform during the simulation experience to meet the learning objectives. These skills may range from performing a comprehensive patient history to complex medical procedures. Based on the complexity of skill to be performed, there may be multiple *observed behaviors or performance measures* associated with the skill. These behaviors should be directly observable or measurable during the experience and may

include reflection during the debriefing or following the experience (post-experience surveys or reflections). Performance measures should be evidence-based.

Patient cues or triggers should be linked to critical actions and performance measures. They are used to direct learners towards the intended objectives. Cues can be conveyed to learners verbally (responses provided by the patient, provider, or embedded participant), visually (changes in vital signs displayed on a monitor), or through additional data (new lab or imaging results).

There may be multiple *management pathways* for learners to meet the learning objectives associated with the provision of patient care during the simulation scenario. These pathways may vary based on the critical reasoning and performance of the learner. This section allows for "if..., then..." scenario drivers to be added within this column to direct the facilitator to specific phrases within the scenario flow. Also, the complexity of the patient presentation may allow for more than one examination and treatment option that would benefit the patient. The scenario should be developed to accommodate these acceptable variations in practice while maintaining consistency and standardization to increase the scenario repeatability.

Scenario Flow (Approximate Timing)	Patient Status	Action(s): Cue(s), Trigger(s), Response(s)	Expected Critical Action(s)/Intervention(s)/Response(s)	Observed Behavior(s) / Performance Measure(s)	Management Pathway(s)	Learning Objectives
First 5 min	Low SpO2 (90% upon entering room)	Role member providing cue: Patient Cue: Low SpO2 on monitor, nasal cannula on incorrectly	Learners are expected to: Note low oxygen, communicate with RN (played by PT faculty member), instruct the patient in appropriate breathing strategies	Fix nasal cannula, Ask about last breathing treatment/meds, Instruct patient in breathing and/or airway clearance		1, 2, 3
Next 10 min	Stable vitals	Role member providing cue: Patient Cue: normal breathing, no SOB if sitting at rest; minimal changes in HR and BP on monitor if sitting at rest	Learners are expected to: Gather relevant subjective information, screen patient to determine if safe for mobility	Asks appropriate questions, performs lung auscultation, assesses strength, balance, function Monitors HR, BP, SpO2, RR, Educates on dyspnea scale	Hillegass textbook	2
Next 5-10 min	Low SpO2 during standing & walking (85- 89%)	Role member providing cue: Patient Cue: SpO2 decreases to 85-89% on monitor and dyspnea score increases to 4-5/10 with prolonged seated or standing activities (>15 seconds) or with ambulation within the room (<15 feet).	Learners are expected to: Perform activity evaluation Respond appropriately to change in status	Notes low oxygen during standing and walking and modifies treatment, provides instruction on appropriate breathing strategies again, titrates oxygen only after above have been tried	Hillegass textbook	2, 3

	Role member providing cue: Cue:	Learners are expected to:		
	Role member providing cue: Cue:	Learners are expected to:		

Section VII. Debriefing

Debriefing Objectives: Review summary of experience, summarize the case, what were the main issues dealt with?

"The purpose of this debrief is to _____. Everyone's participation is welcome and encouraged." Overall reaction to experience: "How did that feel?" Share learning objectives with the learners.

Debriefing is a critical part of the simulation learning process; however, it is not standardized how the debrief is to be delivered based on several variables, including but not limited to the debriefer's(s') style, level and experience of the learners, and the debriefing strategy. Below are several resources that share best practices on a variety of debriefing models.

Resources for Debriefing:

- Healthcare Simulation Standards of Best Practice: The Debriefing Process
 - o https://www.nursingsimulation.org/article/S1876-1399(21)00098-0/fulltext
- Cheng, A., Eppich, W., Epps, C., Kolbe, M., Meguerdchian, M., & Grant, V. (2021). Embracing informed learner self-assessment during debriefing: the art of plus-delta. Advance in Simulation, 6 (1):1-9.
- Dreifuerst, K.T. (2015, May). Getting started with debriefing for meaningful learning. Clinical Simulation in Nursing, 11(5), 268-275. http://dx.doi.org/10.1016/j.ecns.2015.01.005.
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Other Debriefing Scripting (e.g., case talking points, target questions to ask, etc.)

- 1. Is this patient appropriate for activity? How did you determine this?
- 2. What were key assessments for this patient?
- 3. Discuss the PT's response to a drop in SpO2 during activity and clinical reasoning
- 4. Which breathing treatments are most appropriate for this patient and why?

 \Box See attachment for debrief script

Assessment/Outcome Measure

Name of Assessment(s)/Outcome Measure(s):

Assessment modified from CIET tool

 \boxtimes See attachment for assessment/outcome measure

Case References Include references, guidelines, best practices and/or content experts utilized in developing this scenario.

Sessions from Bridge the Gap Simulation, Virtual Conference, Nov 2020 Essentials in Clinical Simulations Across the Health Professions (an online non-credit course authorized by The George Washington University and offered through Coursera)

Hillegass E. Essentials of Cardiopulmonary Physical Therapy, 4th edition. St. Louis: Elsevier; 2017.

Note: Mock records; H&P, consultations, and door note can be added to end of template.

Add Attachments

<u>CF Case Medical Chart Information.xlsx</u>

Simulation Grading Rubric.xlsx

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