





California Simulation Alliance (CSA) Simulation Scenario Template

The California Simulation Alliance (CSA) is comprised of simulation users from all disciplines from throughout the state. Several regional collaboratives have formed totaling 7 as of March, 2011: The Rural North Area Simulation Collaborative (RNASC), the Capital Area Simulation Collaborative (CASC), the Bay Area Simulation Collaborative (BASC), the Central Valley Simulation Collaborative (CVSC, the Southern California Simulation Collaborative (SCSC), the Inland Empire Simulation Collaborative (IESC), and the San Diego Simulation Collaborative (SDSC). The CINHC, a non-profit organization focused on workforce development in healthcare provides leadership for the CSA.

The purpose of the California Simulation Alliance (CSA) is to be a cohesive voice for simulation in healthcare education in the state, to provide for inter-organizational research on simulation, to disseminate information to stakeholders, to create a common language for simulation, and to provide simulation educational courses. The goals of the alliance will include providing a home within the CINHC for best practice identification, information sharing, faculty development, equipment/vendor pricing agreements, scenario development, and sharing and partnership models. More information can be found on the CSA website at www.californiasimulationalliance.org

All scenarios have been validated by subject matter experts, pilot tested and approved by the CSA before they were published online. All scenarios are the property of the CINHC/CSA. The writers have agreed to release authorship and waive any and all of their individual intellectual property (I.P.) rights surrounding all scenarios. I.P release forms can be found on the website www. (Please send signed I.P. release forms to KT at kt@healthimpact.org)

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Scenario Title:	Management of Blunt Chest Trauma- Adult								
Original Scenario De	eveloper(s):	veloper(s): Cleona Cash, DNP, RN							
Date - original scena	ario	February 27, 2017							
Validation:		C.Meckler BSN, RN, CCRN, CEN, CFRN, CPEN, TCRN, M.Miller, RN, MA, CHSE							
Revision Dates:									
Pilot testing:		4/02/2017							
QSEN revision:									
Estimated Scenario	Estimated Scenario Time: 15 - 20 minutes Debriefing time: 30-40 Minutes								
	<u>Target group</u> : Inter-professional Emergency Department Team: ED Physician, Primary Registered Nurse, Respiratory Therapist, Certified Nursing Assistant, Unit Secretary								
Core case: Patient S	Safety, Team w	ork, communication							
QSEN/IOM Compet	encies: Patien	t Centered Care							
Brief Summary of Case: 26-Year-old male brought to the Emergency Depart via ambulance from the field.									
The Paramedic state	The Paramedic stated that the patient was struck by a steel beam on the right side of his chest while at								
work. The patient is a construction worker who works on steel structures helping to install metal studs.									
The patient stated that he turned to grab a steel stud and accidently ran into the stud his partner was									
carrying. The stud c	ut through his	clothes and pierced the right side of his chest. The patient is on the							
gurney sitting uprigh	nt leaning forw	ard holding a rag to the right side of his chest.							
EVIDENCE BASE / REFERENCES (APA Format)									
Bouzat, P., Raux, M.	, David, J. S., Ta	azarourte, K., Galinski, M., Desmettre, T., Vardon, F. (2017). Chest							
trauma: Firs	st 48 hours mar	nagement. P. Bouzat et al./ Anesth Crit Care Pain Med, 36, 135-145.							
http://dx.doi.org/									
	Ludwig, C., & Koryllos, A. (2017). Management of chest trauma. <i>Journal of Thoracic Disease, 9 (suppl 3)</i> , S172-S177. http://dx.doi.org/10.21037/jtd.2017.03.52								
Unsworth, A., Curtis	s, K., & Asha, S.	E. (2015). Treatment for blunt chest trauma and their impact on patient							
		ce delivery. Unsworth et al. Scandinavian Journal of Trauma,							
		ncy Medicine, 23(17), 1-9. http://dx.doi.org/10.1186/s13049-015-0091-5							
		017). Using teams to improve outcomes and performance. <i>Nephrology</i>							
Nursing Journal, 44, 141-152.									

SECTION I: SCENARIO OVERVIEW

SECTION II: CURRICULUM INTEGRATION

A. SCENARIO LEARNING OBJECTIVES Learning Outcomes: Participants will be able to: Evaluate patient assessment data and recognize signs and symptoms of acute respiratory distress 2. Initiate effective inter-professional team (IP) communication in emergent situation to safely care for and stabilize the patient 3. Distinguish between acute upper respiratory distress and conditions of the lower respiratory tract to safely provide care for the patient Specific Learning Objectives 1. Recognize symptoms of acute respiratory emergency situation 2. Perform essential assessment for oxygenation and circulation 3. Differentiate IP roles and responsibilities in emergent situation 4. Demonstrate team work and close loop communication 5. Perform effective hand-off communication with the IP team using SBAR tool 6. Demonstrate therapeutic communication skills when communicating with patient and or family members **Critical Learner Actions** 1. Recognize the patient have a life-threatening injury because of blunt trauma 2. Recognize signs and symptoms of acute respiratory distress and conduct a focus assessment of the lung auscultation 3. Demonstrates proper management of acute respiratory distress 4. Conduct a focus assessment of the patient neurological status and oxygenation/circulation 5. Notifies the physician using SBAR Communication 6. Implements the appropriate steps for chest tube placement 7. Stabilize airway & titrate oxygen to ensure profusion 8. Communicate to the IP team using SBAR and closed loop communication Reassess patient at 5-10 minutes intervals post interventions until stable 9 10. Communicate in a therapeutic manner with patient and or family members **B. PRE-SCENARIO LEARNER ACTIVITIES Prerequisite Competencies Skills/Attitudes** Knowledge Complete pre-assigned reading assessment Early recognition of acute respiratory distress □ Safe decision making regarding patient condition and Collaborative management of signs and symptoms of Blunt chest trauma in the adult treatment methods Pharmacology of basic medications used when □ Safe administration and management of sedation and inserting a chest tube or local anesthesia Current adult patient safety goals □ Role of nurse in dealing with patient/family members QSEN Competency: Completed assigned reading pre-simulation scenario, current ACLS

CSA REV template (12/15/08; 5/09; 12/09; 4/11; 1/14, 1/16)

certification

SECTION III: SCENARIO SCRIPT

A. Case summary A 26-year-old male brought to the ED via ambulance with complaints of being struck with a steel beam on the right side of his chest. Upon admission to the Emergency Department the patient stated that he turned to grab a steel stud and accidently ran into the stud his partner was carrying. The stud cut through his clothes and pierced the right side of his chest. He also stated that he was having difficulty breathing. No known drug or food allergies No significant past medical history. No history of surgery

B. Key contextual details

Emergency Department - Monitor Respiratory status- effective teamwork

	C. Scenario Ca	ast
Patient/ Client	X High fidelity simulator	
	Mid-level simulator	
	Task trainer	
	Hybrid (Blended simulator)	
	Standardized patient	
Role	Brief Descriptor	Standardized Participant or Learner (L)
	(Optional)	
Physician	Emergency services physician	Learner
Respiratory Therapist		Learner
Primary Nurse	Registered Nurses	Learner
Emergency Room		Standardized participant
Technician		
Assistant Unit Secretary		Standardized participant

Gender: MaleAge: 26Ht: 5 ft 11 insWSpiritual Practice: ChristianEthnicity: CaucasiaI. Past historyNo known past medical historyPrimary Medical DiagnosisAcute respiratory distress2. Review of SystemsCNSAnxiousCardiovascularNormal S1S2PulmonaryPatient short of breath with abseRenal/HepaticWithin Normal limits (WNL)GastrointestinalSoft nontender, bowl sounds preEndocrineWNLHeme/CoagWNLMusculoskeletalMoving all extremities pulses pulses pulses pulses to an all chest wallIntegumentWNLDevelopmental HxWNLSocial HxLives with significant otherAlternative/ Complementary Medicine HxNoMedication allergies:None KnownReaFood/other allergies:	irst name: Vt: 75 kg an ent breath sound esent all quadrar	
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Food/other allergies: None Known Rea	action: None	Frequency
Drug		Frequency
edications		
irrent medicati		
Irrent medic	1	
rrent m		
m		
4. Laboratory, Diagnostic Study Results	I	
Na: K: 3.4 mEq/L Cl: 104mmol/L	HCO3:	BUN:8 mg/dL Cr: 0.9 mg/dL
Ca: Mg: Phos:	Glucose:70 m	ng/dl HgA1C:
Hgb: 12.2 gm/dl Hct: 33 % Plt:	WBC: 5700 m	nm3 ABO Blood Type:
PT PTT INR	Troponin:	BNP:
ABG-pH: 7.32 paO2: paCO2: 50mmHg 65mmHg	HCO3/BE:16m	nEq/L SaO2: 88%

	E. Baseline Simulator/Standardized Patient State (This may vary from the baseline data provided to learners)														
1.	Initial physic	al a	· · ·		•				<u> </u>				- /		
	nder: Male			1		ort sleeve T-	shirt, l	ong jear	is pant	ts					
Alt	erations in app	bea	rance	(moul	age fo	or chest wou	nd):		-						
X	ID band pres							nt, inaco	curate				d absent	or not	
												applica			
	Allergy band	pre	esent,	accura	te	Allergy	band I	naccura	te		X	Allergy	band ab	sent or N/A	
2.	Initial Vital S	ign	s Mo	nitor	displ	ay in simula	tion a	ction r	oom:						
	No monitor o	disp	lay			Monitor on,	but no	data di	splaye	d	x	Monit	or on, sta	andard display	
BP	: 88/60		HR:	140		RR: 30	T:	37ºC					SpO ² : 8	38 %	
CV	P:		PAS:			PAD:	PC	WP:					CO:		
AIF	RWAY:		ETC0			FHR:									
	Lung		Left:			Right:									
So	unds/mechani	cs		nish w	ith	Diminish									
			strid			with strider	S ¹ S	-2							
	Hear	τ:	Soun					-							
	Bowel sound		WNL	rhythn	า:		Sin	us Tach	ycardi	-	thei				
_											the	•			
3.	3. Initial Intravenous line set up														
	Saline lock	Sit	te:		IV patent (<mark>Y</mark> /N)					nt (<mark>Y</mark> /N)					
	IV #1			CVC		luid type:			al rate:				IV pate	nt (Y/N) Yes	
X	Main	Lf	-		N	ormal Saline		150 mls/hr							
	Piggyback	A/													
								1					1		
	IV #2	Sit	te:		FI	luid type:	d type: Initial rate:						IV pate	IV patent (Y/N)	
	Main														
	Piggyback														
4.	Initial Non-inv	/asi	ve mo	onitors		•									
	NIBP			X		First lead:			II			econd le	ad:		
Х	Pulse oximet					p monitor/ty	ре			Ot	her	:			
5.	Initial Hemod	yna	mic n	nonito		•				1					
	A-line Site: Catheter/tubing Pate (Y/N)				Patenc	ency CVC Site: PAC Si			PAC Site:						
6.	Other monito	rs/o	device	es											
	Foley cathet	er		Amc	ount:		A	opearan	ce of u	urine	e:				
	Epidural cath	nete	er		Infus	sion pump:	Ρι	imp sett	ings:						
							In	ternal					Externa	al	

Environment, Equipment, Essential props

Recommend standardized set ups for each commonly simulated environment

1. Scenario setting: (example: patient room, home, ED, lobby)

Emergency Department Trauma RM 2

2.	2. Equipment, supplies, monitors							
(In	(In simulation action room or available in adjacent core storage rooms)							
	Bedpan/ Urinal	Foley catheter k	it	Straight cath. kit		Incentive spirometer		
Х	IV Infusion pump	Feeding pump		Pressure bag	X	Wall suction		
	Nasogastric tube	ETT suction cath	eters	Oral suction catheters	X	Chest tube kit		
	Defibrillator	Code Cart	X	12-lead ECG	X	Chest tube equip		
	PCA infusion pump	Epidural pump		Central line Kit	X	Dressing ∆ equip		
Х	(IV fluid Type: NS IV fluid additives:		Blood products: ABO Type: # of units:					

Х	Nasal cannula	Face tent	Simple Face Mask	Х	Non-rebreather mask			
Х	BVM/Ambu bag	Nebulizer tx kit	Flow-meters (extra supply)					

4.	Documentation and Order Forms							
X	Provider orders	X	Med Admin Record	X	Hx & Physical Lab Results			
Х	Progress Notes		Graphic record		Anes/PACU record	Х	ED Record	
	Med Reconciliatn		Transfer orders		Standing orders ICU flow sheet			
Х	Nurses' Notes		Dx test reports		Code Record Prenatal record		Prenatal record	
	Actual medical record binder			X	Electronic Medical Record			

5. I	5. Medications (to be available in sim action room)								
#	Medication	Dosage	Route		#	Medication	Dosage	Route	
1.	1 Liter Normal Saline	150 mls/hr	IV						
2.	Morphine	4 mg q4 hrs PRN	IV						

CASE FLOW / TRIGGERS/ SCENARIO DEVELOPMENT STATES

Initiation of Scenario: Paramedic reported off to receiving RN in the Emergency Department that a 26-year-old male brought to the ED via ambulance with complaints of difficulty breathing after being struck with a steel beam on the right side of his chest. The patient stated that he turned to grab a steel stud and accidently ran into the stud his partner was carrying. The stud cut through his clothes and pierced the right side of his chest. The patient is awake appears to have some difficulty breathing, BP 90/60, HR: 132 RR 26 Sp0₂ 89%

STATE / PATIENT STATUS	DESIRED LEARNER ACTIONS & TRIG	GERS TO MOVE TO NEXT STATE	
1. Baseline: Patient sitting	Operator:	Learner Actions	Debriefing Points:
upright on gurney in trauma bay #2 holding the right side of his chest, patient states he is	B/P 89/60 HR: 150 RR: 40 T.37°C	 Primary nurse washes hands prior to touching the patient introduces self & role. 	 National Patient safety goal(NPSG)-approaches to minimize the risk of error and infection
having a difficult time catching his breath. Not able to speak in full sentences	Sp0 ₂ : 88% Neuro: awake, verbal, oriented x 4 Resp: tachypneic, nasal	 Conducts a focus assessment of the patient Recognizes Patient in acute respiratory distress. Places 2 L/m nasal oxygen 	 Recognizes the presentation of acute respiratory distress Recognize signs of altered level of consciousness (ALOC) Potential for respiratory and
Nurse: What happened, what brought you here today? Patient: Nurse I don't feel good, I can't	flaring Skin: color pale, diaphoretic. Patient moaning	on the patient 6. Notifies the ED trauma physician using SBAR Communication.	cardiac arrest
breathe	Triggers: Nurse will need to complete 1, 2, 3, 4 & 5 before moving forward.		

STATE / PATIENT STATUS	D ESIRED ACTIONS & TRIGGERS TO	MOVE TO NEXT STATE	
Patient:	Operator:	Learner Actions:	Debriefing Points:
•	DESIRED ACTIONS & TRIGGERS TO Operator: B/P: 84/50 HR: 155 RR: 44 SPO ₂ : 86% Monitor: ST Physician orders: 1. Stat ABG 2. portable chest X-ray 3. chem 7, CBC, PT, PTT, INR 4. NS at 150 mls/ hr. 5. Continuous O ₂ to keep sats at 90% or above 6. Prepare for chest tube insertion	 Learner Actions: Recognizes the need for immediate assessment by the physician. Deliver SBAR to physician upon arrival to patient room Manage Acute respiratory distress Place patient on 100% non-re-breather oxygen mask Place 18 gage intravenous line. (left antecubital) Nurse sets up for chest tube insertion Physician inserts chest tube after receiving 	 Debriefing Points: Factors in patient status indicating need for physician assistance Elements in managemen of acute respiratory distress Chest tube insertionnursing role. Assess chest tube drainage, continuous drainage greater than 200 mls/hr report to physician
	Triggers: <i>After 1-2</i>	consent	

STATE / PATIENT STATUS	DESIRED ACTIONS & TRIGGE	RS TO MOVE TO NEXT STATE	
If all goes well Scenario Ends Patient's awake alert oriented x 4, skin pink warm & dry, heart rate within normal limits, patient awake able to speak in full sentences Incorrect Steps Nurse assesses patient vital signs. Patient anxious, restless, tachypneic gasping breaths, tachycardic, hypotensive, skin diaphoretic, pale, cyanotic,	Operator: B/P: 110/70 HR: 100 RR: 18 SP0 ₂ : 97% Monitor: SR Operator: B/P: 80/50 HR: 165 RR: 46 SP0 ₂ : 87% on 100% non-re- breather mask Breath sound: diminish on Right side Skin: Pale diaphoretic Monitor: SVT	 Learner Actions: Assess for air leak at chest tube insertion Monitor chest tube connection site Monitor chest tube drainage (no gurgling sounds noted) Interacts positively with patient and keep patient updated of care. 	 Debriefing Points: Potential for air leaks after chest tube insertion Ensure all connections on chest tube are secured Recognize the need to secure chest tube insertion site with Xeroform dressing after insertion Knowledge of placement of chest tube drainage container during transport (should never be placed level with the patient) Patient knowledge of self-care
Scenario Ends			
Scenario End Point: All team r	nembers present, and interver	ntion is timely	
Suggestions to <u>decrease</u> comp	lexity:		
Suggestions to increase compl	exity:		

ALL DATA IN THIS SCENARIO IS FICTICIOUS

APPENDIX A: HEALTH CARE PROVIDER ORDERS

Patient N	lame: Ro	obert Walsh	Diagnosis: Acute Respiratory Distress					
DOB: 03/	25/1991							
Age: 26	yeas							
MR#: 00	1003410							
[†] No Know †Allergies	-							
Date	Time		IDER ORDERS AND SIGNATURE					
3/20/17	09:00	1. Normal Saline 1000 milliliters a	t 150 mls/hr					
		2. Stat ABG	,					
		3. Portable chest X-ray						
		4. Chemistry 7						
		5. Titrate oxygen to keep 02 satur	ation 90% or greater					
		6. Prepare chest tube set-up for c	hest tube placement					
		7. Morphine 4 mg IV push q4 hou	rs PRN pain					
Signature	9	Dr. David Jones M.D.						

APPENDIX B: Digital images of manikin and/or scenario milieu			
Insert digital photo here	Insert digital photo here		
Insert digital photo here	Insert digital photo here		

APPENDIX C: DEBRIEFING GUIDE

General Debriefing Plan				
Individual]Group	With Video	Without Video	
	Debrief	fing Materials		
Debriefing Guide	Objectives Debriefing F		ints X QSEN	
QSEN Competencies to consider for debriefing scenarios				
X Patient Centered Care	X Teamwork/C	Collaboration	X Evidence-based Practice	
X Safety	Quality Imp	provement	Informatics	
Sample Questions for Debriefing				
 How did the experience of caring for this patient feel for you and the team? Did you have the knowledge and skills to meet the learning objectives of the scenario? What GAPS did you identify in your own knowledge base and/or preparation for the simulation experience? What RELEVANT information was missing from the scenario that impacted your performance? How did you attempt to fill in the GAP? How would you handle the scenario differently if you could? In what ways did you check feel the need to check ACCURACY of the data you were given? In what ways did you perform well? What communication strategies did you use to validate ACCURACY of your information or decisions with your team members? What three factors were most SIGNIFICANT that you will transfer to the clinical setting? At what points in the scenario were your nursing actions specifically directed toward PREVENTION of a negative outcome? Discuss actual experiences with diverse patient populations. Discuss how current nursing practice continues to evolve in light of new evidence. Consider potential safety risks and how to avoid them. Discuss the nurses' role in design, implementation, and evaluation of information technologies to support patient care. 				
Notes for future sessions:				