



SECTION I: SCENARIO OVERVIEW

Scenario Title:	Seizures 12-year-	old in school setting – AACN Essentials							
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Date – original scer	nario								
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Revision Dates:		10/18, reviewed; 8/2024 L. Catron, DNP, M.A.ED, BSN, RN, CHSE							
Pilot Testing:		11/13							

Estimated Scenario Time: 15-20 minutes Debriefing Time: 20-30 minutes

Target Group: Student Nurses in Pediatric Rotation, School/Pediatric Nurses

<u>Core Case:</u> First Aid Seizure Care, Safety & Privacy, Seizure Emergency Protocol, Diastat Medication

Administration

Brief Summary of Case:

José Lopez is a 12-year-old male 7th grader who was diagnosed with Epilepsy NOS in August 2012 after experiencing 2 unprovoked seizures at home. José takes Valproic Acid (Depakote) twice a day to control seizures. Seizures have been well controlled, and José experiences about 1 to 2 seizures per year. During a math lesson, José exhibits warning signs of an impending seizure. Soon after, he begins to seize while sitting in his desk. Learners are expected to provide first aid care during and after a seizure, be able to identify when a seizure becomes an emergency situation and be able to administer emergency anti-seizure rescue medication (Diastat) when appropriate. This scenario is appropriate for school/pediatric nurses and nursing students in their pediatric rotation. It can be made more complicated by making the patient more unstable.

EVIDENCE BASE / REFERENCES (APA Format)

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Children's Healthcare Atlanta. (2018). Diazepam rectal gel (Diastat). Patient and family education. https://www.choa.org/-/media/Files/Childrens/medical-professionals/nursing-resources/diastat teaching sheet.pdf?la=en&hash=935B01DAC60A9446068E978FA7B6FA83C343FB19

Epilepsy Foundation. (2023). Resources guides and tools. https://epilepsynorcal.org/guides-tools/

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Miotto, M. B., Balchan, B., & Combe, L. (2024). Safe administration of medication in school: Policy statement. Pediatrics, 153(6). https://doi.org/10.1542/peds.2024-066839

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SECTION II: CURRICULUM INTEGRATION

A. SCENARIO LEARNING OBJECTIVES

Learning Outcomes

- 1. Identify a seizure and its triggers/warning signs, when a seizure becomes an emergency, and know appropriate response
- 2. Provide appropriate first aid for a patient during and after a seizure
- 3. Provide patient care that ensures and maintains privacy and safety
- 4. Maintain Standard Precautions during scenario

Specific Learning Objectives

- 1. Provide first aid care to patient during and after seizure
- 2. Gather relevant patient and contextual data
- 3. Recognize acute changes in patient's condition that requires immediate attention
- 4. Perform timely nursing interventions that addresses main problem(s)
- 5. Evaluate effectiveness of nursing interventions
- 6. Effectively communicate patient's current status to EMS and parent/guardian

Critical Learner Actions

- 1. Observe and track time of seizure activity
- 2. Ensure safety (protect head), lower to ground (if possible), and clear area
- 3. Monitor breathing, ensure airway is clear/open (loosen restrictive clothing), and turn patient to their side (rescue position)
- 4. Recognize when a seizure becomes an emergency (generally: convulsions lasting > 5 minutes, repeated seizures without regaining consciousness, breathing difficulties, or 1st time seizure)
- 5. Prepare to administer anti-seizure rescue medication (Diastat): ensure patient's privacy and check medication using "6 Rights of Medication Administration"
- 6. Administer emergency anti-seizure rescue medication (Diastat) according to MD orders and manufacturer's instructions
- 7. Call 911 and call parent/guardian report that emergency anti-seizure rescue medication (Diastat) was given
- 8. Stay with patient and observe for any adverse events & side effects
- 9. Communicate patient's current status/vital signs to EMS and parent/guardian
- 10. Demonstrates appropriate Standard Precautions throughout scenario

AACN Essential Learner Activities Based on Learning Objectives & Actions

Domain	Sub competencies
1 Knowledge for Nursing Practice	1.2a; 1.2e; 1.3a: 1.3b
2 Person-Centered Care	2.1; 2.2; 2.3a-c; 2.3e-g; 2.4a-d; 2.5c-f; 2.6c; 2.7b; 2.9c; 2.9d; 2.9e
4 Scholarship for the Nursing Practice	4.2c
5 Quality and Safety	5.1c; 5.2c; 5.2f
6 Interprofessional Partnerships	6.1b; 6.1e; 6.2c; 6.3c;

State or Regional Core Tenet Learner Activities





SECTION II: CURRICULUM INTEGRATION

QSEN Competencies							
☐ Patient Centered Care	☐ Teamwork and Collaboration						
☐ Patient Safety	☐ Informatics						
☐ Evidence Based Practice	☐ Quality Improvement						

B. PRE-SCENARIO LEARNER ACTIVITIES								
Prerequisite Competencies								
Required prior to participating in the scenario								
Knowledge	Skills/Attitudes							
Types of seizures: signs & symptoms		Nursing interventions/first aid care for seizures						
First aid for seizures		Physical assessment						
Diastat medication administration & contraindications		Rectal medication administration						
Seizure action plan & Seizure emergency protocol		Ensure and maintain patient's safety and privacy						
Aspects of patient privacy and safety		Communication using SBAR						





SECTION III: SCENARIO SCRIPT

A. Case summary

José Lopez is a 12 year-old male 7th grader who was diagnosed with Epilepsy NOS in August 2012 after experiencing 2 unprovoked seizures at home. José takes Valproic Acid (Depakote) twice a day to control seizures. Seizures have been well controlled; however, José still experiences about 1 to 2 seizures per year. During a math lesson, José exhibits warning signs of an impending seizure. Soon after, he begins to seize while sitting in his desk.

Learners are expected to perform the following specific learner actions: ensure and maintain patient safety, provide first aid care during and after a seizure, provide and maintain patient privacy, position patient in rescue position, recognize when a seizure becomes an emergency, administer emergency anti-seizure rescue medication, and communicate patient status to EMS and parent/guardian.

Learners will demonstrate incorporation of QSEN competencies throughout the scenario by recognizing changes in patient status and conducting appropriate follow up; prioritizing actions related to patient needs (safety and privacy) and delegate actions if appropriate; demonstrating safe practices, evidence based practice/informatics, related to medication administration and preventing injury to patient; communicating observations or concerns related to potential hazards for patient; and working as part of a team.

B. Key contextual details

During a math lesson, the patient exhibits warning signs of an impending seizure. The teacher instructs a student to inform the school nurse about the situation. As the school nurse enters the classroom, the patient begins to seize in their desk. The point is for the learners to ensure the patient's privacy and safety, provide first aid care during and after a seizure, recognize when a seizure becomes an emergency, administer emergency anti-seizure rescue medication, and communicate patient status to EMS and parent/guardian.

	C. Scenario Cast							
Patient/Client	☐ High fidelity simulator							
	☐ Mid-level simulator							
	☐ Task trainer							
	☐ Hybrid (Blended simulator)							
☐ Standardized patient								
Role	Brief Descriptor (Optional)	Standardized Participant Or Learner (L)						
School Nurse		Learner						
Teacher		Learner/SP						
Students (3 or more)		SP						
EMS (2)		SP						

CSA REV template (10/18;8/24)





D. Patient/Client Profile									
Last name: Lopez First name: José									
Gender: Male	Age: 12	Ht: 5'0"	Wt: 43.8 kg	Code status: Full					
Spiritual Practice	:	Ethnicity:		Primary Language Spoken:					
Cat	tholic	Hisp	anic	English					

1. History of present illness

José was his usual self until July 18, 2012 when he experienced his first seizure at home. During this episode, José convulsed for 5 minutes, and mom called 911. Mom stated that before the seizure, she noticed that José's eyes became glossy and the muscles in his face tightened up. Soon after, José began to convulse: arms and legs became stiff followed by rhythmic jerking. José was brought to the hospital and stayed overnight for observation. José's hospital stay was uneventful, and was sent home the next day. On August 23, 2012, José experienced his second seizure at home. Mom stated that seizure was about 10 minutes long. José was eating breakfast but then his eyes became glossy and teeth clenched together. Soon after he began to convulse: arms and legs stiffened followed by rhythmic jerking, and his breathing was shallow. Mom called 911 and José was brought to the hospital. An extensive neurological exam and tests were performed to help determine the cause of José's seizures. Results were unremarkable, and José was diagnosed with Epilepsy NOS since he had experienced 2 unprovoked seizures. José was placed on Valproic Acid (Depakote) to help control his seizures. Since then, seizures have been well controlled. However, José still experiences about 1-2 seizures per year.

Primary Medical Diagn osis: Epilepsy NOS

2. Review of Systems	
CNS	Unconscious, unresponsive; Postictal phase (after seizure): lethargy, altered LOC
Cardiovascular	Increased HR: about 124 bpm
Pulmonary	Shallow breathing
Renal/Hepatic	-
Gastrointestinal	(Possible) bowel/bladder incontinence
Endocrine	-
Heme/Coag	-
Musculoskeletal	Tonic phase: continuous muscle contractions (bilateral stiffening of arms and legs); Clonic phase: rigidity and relaxation alternate in rapid succession
Integument	-
Developmoental Hx	Normal male 12 year old
Psychiatric Hx	No psych history
Social Hx	Lives at home with mo her, father, and younger brother
Alternative/Complem	entary Me cine Hx None

Medication allergies:	NKDA	Reaction:	
Food/other allergies:	NKA	Reaction:	

	Drug	Dose	Route	Frequency
	Valproic Acid (Depakote)	17.5 mL (875 mg)	РО	Q12hrs
ent				
Current				
3. Current medications				

CSA REV template (10/18; 8/24)



4. Laboratory, Diagnostic Study Results



Na:		K:		CI:		Н	CO3:		BUN:		Cr:
Ca:		Mg:		Phos:		G	lucose:		HgA1	HgA1c:	
Hgb:		Hct:		Plt:		٧	WBC:		ABO Blood Type:		pe:
PT:		PTT:		INR:		Т	Troponin:		BNP:		
Amm	ionia:	Amyla	ase:	Lipase	e:	А	lbumin:		Lacta	te:	
ABG-	pH:	paO2	:	paCO2	2:	Н	CC 3/BE:		SaO2	:	
VDRL	:	GBS:		Herpe	es:						
CXR:				ECG:							
CT:				MRI:							
Othe	r:										
						-	ardized Pa				
			-	ay vary fr	om the b	baseline	data prov	ided to l	earners)	
	tial physical ap	peara									
Gend			Attire: Re	_	thes						
	ations in appea				_						
12 ye	ar old male, sit	ting i	n desk; Eye	s are glos	ssy, face	muscles	are tighte	ened, tee	eth clen	ched	
	ID band one			1.	D				ID Is a		
	ID band pre Accurate inf		tion		ID band present, Inaccurate information			Х	ID band absent or not applicable		
	Allergy band				Allergy band present,			^	Allergy band absent or not		
	Accurate inf	•	-		inaccurate information			X	applicable		
	/ tecarate iii	1011114	1011	•	naccara		1011		аррп	Cabic	
2. Ini	tial Vital Signs	Moni	tor display	in simula	ation act	tion roor	n:				
	No monitor			on, but n			itor on,				
	display		data dis	-			dard displa	ay			
	. ,			,			•	<i>'</i>			
					ı	1		l.			
BP:		H	IR:		RR:			T:			SpO ² :
CVP:		P	PAS:		PAD:	•		PCWP:			CO:
AIRW	AIRWAY: ETC0 ² :		FHR:	FHR:							
	Lung	gs: L	eft:		•			Right:		•	
So	unds/mechani	cs									
	Hea	rt: S	ounds:								
		E	CG rhythm	1:							
		C	Other:								
Bowel sounds:								Other:			





3. Ir	nitial Intrave	nous line	set up							
	Saline	Site:							IV patent (Y/N)	
	Lock #1									
	IV #1	Site:		Fluid type:		Initial ra	ite:		IV patent (Y/N)	
	Main									
	Piggyback									
	IV #2	Site:		Fluid type:		Initial ra	ite:		IV patent (Y/N)	
	Main									
	Piggyback									
4. Ir	nitial Non-inv	asive m	onitors	set up						
	NIBP			ECG First lead:			ECG Second lea	id:		
	Pulse oxime	Pulse oximeter Temp monitor/type		Temp monitor/type			Other			
	*** 1 ** 1	•	.							
5. Ir	nitial Hemod	ynamic r		•		(2.1)	1			
				Catheter/tubing Patenc	atency (Y/N) CVP Site:				PAC Site:	
6.0	ther monito	-								
	Foley cathe		Amo		Appearance of urine:					
	Epidural ca	theter		Infusion pump:	Pur	Pump settings:				
	Fetal Heart	rate mo	nitor/to	ocometer	Internal			Ext	ternal	
								•		
		Recom	mend s	Environment, Equi tandardized set ups for				envi	ronment	
1. S	cenario setti	ng: (exai	nple: p	atient room, home, ED	, lok	oby)				
Clas	sroom – Sch	ool Setti	ng							
	quipment, su			rs railable in adjacent core	sto	rage roc	oms)			
(1113	Bedpan/Ur			Foley catheter kit			tht cath. Kit		Incentive spirometer	
	IV Infusion			Feeding pump			ure bad		Wall suction	

Nasograstric tube

PCA Infusion pump

Defribrillator

IV fluid Type: ETT suction

catheters

Code Cart

pump

Epidural infusion

IV fluid additives:

Oral suction catheters

Central line Insertion

12-lead ECG

Kit

Chest tube insertion

Chest tube equip

kit

Dressing

equipment Blood product

ABO Type: # of units:





3. Respiratory therapy equipment/devices									
Nasal cannula	Nasal cannula Face tent Simple Face Mask Non re-breather mask								
BVM/Ambu bag	Nebulizer tx kit	Flowmeters (extra supply)							

4. Do	4. Documentation and Order Forms					
	Health Care Provider orders	Med Admin Record		H & P	Lab Results	
	Progress Notes	Graphic record		Anesthesia/PACU record	ED Record	
	Medication reconciliation	Transfer orders		Standing (protocol) orders	ICU flow sheet	
	Nurses' Notes	Dx test reports		Code Record	Prenatal record	
	Actual medical record binder, constructed per institutional guidelines			Other		
			Х	Describe: Healthcare Binder & S	Seizure Action Plan	

5. M	5. Medications (to be available in sim action room)							
#	Medication	Dosage	Route		#	Medication	Dosage	Route
1	Diastat AcuDial	10 mg	Rectal					

CASE FLOW/ TRIGGERS/ SCENARIO DEVELOPMENT STATES

Initiation of Scenario:

José is sitting in class during a Math lesson. The student next to him notices that José is acting "different". The teacher walks over and notices that José's eyes are glossy, face muscles are tightened, and teeth are locked up. The teacher informs one of the students to get the school nurse and tells the rest of the student to leave the classroom. As the school nurse enters to the room, José begins to seize in his desk.

STATE/ PATIENT STATUS STATE/ PATIENT STATUS STATE/ PATIENT STATUS				
1. Baseline José is sitting in his desk. His eyes become glossy, face muscles tighten, and teeth are locked up.	Operator Patient is sitting in desk with eyes glossy, face muscles tightened, and teeth clenched. Triggers: Learner identifies seizure warning signs, and retrieves Healthcare Binder and Diastat.	Learner Actions Notify school nurse Identify seizure warning signs and triggers Clear room of students & ensure patient's privacy Ensure patient's safety Retrieve Healthcare Binder (Seizure Action Plan, MD orders) Retrieve Diastat medication	Debriefing Points Examples of possible seizure warning signs and triggers Seizure Action Plan Importance of providing and maintaining privacy and safety for patient during a seizure School/School District Protocol for seizure	
STATE/ PATIENT STATUS	STATE/ PATIENT STATUS	Netrieve Diastat medication	<u> </u>	
2. José loses consciousness. He begins to seize in his desk He begins to convulse – bilateral arm and leg stiffening. "Tonic" Phase (about 5-10 seconds) José is still convulsing – bilateral rhythmic jerking of arms and legs. "Clonic" Phase (>5 minutes) Breathing is shallow, but there is no evident change in skin color.	Operator Patient loses consciousness and begins to seize. Patient is experiencing generalized tonic-clonic seizure lasting longer than 5 minutes. Triggers: Learner recognizes that seizure has lasted longer than 5 minutes, and is now and emergency. Learner prepares to administer emergency antiseizure medication (Diastat).	Learner Actions Ease patient out of desk and carefully lower to the floor Clear area Protect from injury/potentially harmful objects, loosen restrictive clothing – maintain safety Ensure airway is clear/open Cushion and protect head Observe and time events Turn patient to rescue position Follow patient's Seizure Action Plan After 5 minutes of seizing, recognizes that seizure is now an emergency, and prepares to administer emergency anti-seizure medication (Diastat)	Debriefing Points: Appropriate first aid care during a seizure Signs and symptoms of seizure — Generalized Tonic-Clonic Seizure Recognizing when a seizure becomes an emergency ("Seizure Emergency" is defined in patient's Seizure Action Plan, parameters set by Doctor) Parameters as to when to administer emergency anti-seizure medication (Diastat) per patient's Seizure Action Plan	

CSA REV template (10/18; 8/24)

STATE/ PATIENT STATUS DESIRED LEARNER ACTIONS & TRIGGERS TO MOVE TO NEXT STATE					
3. José is still convulsing. He has now been seizing for more than 5 minutes, with no signs of stopping.	Operator Patient is still seizing – bilateral rhythmic jerking of arms and legs Triggers: Learner administers emergency anti-seizure medication (Diastat), calls 911, and calls parent/guardian	Learner Actions Prepare to administer emergency antiseizure medication (Diastat) Check medication using "6 Rights of Medication Administration" Administer Diastat according to manufacturer's instructions Call 911 & Call parent – report that Diastat was given	Debriefing Points: Recognizing when a seizure becomes an emergency Parameters as to when to administer emergency anti-seizure medication (Diastat) per patient's Seizure Action Plan Importance of maintaining privacy during administration of medication Following instructions on Seizure Action Plan: what to do for a "seizure		
STATE/ PATIENT STATUS	DESIRED LEARNER ACTIONS & TRIGGERS TO MOVE TO NEXT STATE				
4. José's seizing stops 5 minutes after administering emergency antiseizure medication (Diastat) and slowly begins to regain consciousness.	Operator Patient stops seizing 5 minutes after administering emergency anti-seizure medication (Diastat) Triggers:	Learner Actions Stay with patient and observe/assess for any adverse events & side effects Assess patient for possible injuries Provide SBAR report to health care team (EMS)	Debriefing Points: SBAR report that includes information about patient's seizure (type, length), and medication administration & response		
	Seizure does not last longer than 5 r breathing difficulties, repeated seiz	and patient is brought to the hospital minutes and does not exhibit any other sign cures without regaining consciousness) that icus). Patient stops breathing after seizure	at requires emergency protocol		

incontinent of bowel and bladder. Patient is injured during seizure or Diastat administration. Family is hysterical.

APPENDIX A: HEALTH CARE PROVIDER ORDERS

Patient Na	me: Lopez, José	Diagnosis: Epilepsy NOS
DOB: 04/1	3/2001	
Age: 12		
MR#: 9876	54321	
†No Knowr	n Allergies	
	& Sensitivities	
Date	Time HEALTH CARE PROVI	DER ORDERS AND SIGNATURE
8/19/13	Administer 10mg of Diastat AcuDial Re	ectally for seizures lasting longer than 5 minutes
Signature		

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	IndividualGroup		With Video)	Without Video		
Debriefing Materials							
Debriefing Guide Object			ectives	Debriefing Po	QSEN		
	C	SEN Cor	npetencies to con	sider for debrie	fing sce	narios	
Patient Centered Care		Teamwork/Collaboration		Evidence-based Practice			
Safety		Quality Improvement		Informatics			
			Sample Questi	ons for Debriefiı	ng		
	=		of caring for this p	· ·			
-			_		-	tives of the scenario?	
		=	tify in your own kr	nowledge base a	ınd/or p	reparation for the	
	tion expe						
			ation was missing		io that ii	mpacted your	
•			you attempt to fil		13		
	, ,						
	, ,						
	, , ,						
	What communication strategies did you use to validate ACCURACY of your information or decisions with your team members?						
9. What	What three factors were most SIGNIFICANT that you will transfer to the clinical setting?						
10. At wha	t points i	n the sce	nario were your n	ursing actions sរុ	pecifical	lly directed toward	
PREVE	PREVENTION of a negative outcome?						
11. Discus	1. Discuss actual experiences with diverse patient populations.						
12. Discus	s roles ar	nd respo	nsibilities during a	crisis.			
13. Discus	13. Discuss how current nursing practice continues to evolve in light of new evidence.					of new evidence.	
14. Consid	14. Consider potential safety risks and how to avoid them.						
15. Discuss the nurses' role in design, implementation, and evaluation of information						n of information	
techno	technologies to support patient care.						
Notes for futu	re sessio	ns:					