

Student Developed Simulation Scenario Storyboard

<p>Identified Problem/Scenario Topic and Related Resources:</p> <p>Gestational Diabetes</p> <p>Textbook Chapter 8: Nursing care of the women with complications during pregnancy</p> <p>Kylee Cheek, Lindsey Steele, Presley Stang</p>	<p>Desired Overall Goal:</p> <ol style="list-style-type: none"> 1. The patient will maintain blood glucose levels within the target range; typically, fasting blood glucose <95 mg/dL. 2. Educate patient on insulin and blood glucose monitoring. 3. Educate patient on signs and symptoms of hypoglycemia (e.g., shakiness, sweating, blurred vision) 4. Educate patients on safe regular physical activity.
<p>Case Summary:</p> <p>27-year-old female patient, 35 weeks pregnant, who is diagnosed with gestational diabetes (GDM). She has a history of PCOS, a previous pregnancy over 9 lbs., and a direct family history of type 2 diabetes. Blood glucose taken at home was 218 mg. Her GTPAL is G:2 T:1 P:0 A:0 L:1. She came in for polyuria, polydipsia, polyphagia, fatigue, and blurred vision. T: 98.0, HR: 101, RR: 22, BP: 134/80, Spo2: 98%, BS:230 mg/dL</p>	<p>Expected Interventions of Students:</p> <ol style="list-style-type: none"> 1. Assessing the patient’s understanding of gestational diabetes and providing teaching if needed. 2. Refer to a dietitian and reinforce the diet plan. 3. Monitor blood sugar levels and adjust care as per provider’s orders 4. Administer insulin or medications as prescribed. 5. Teach capillary glucose testing for self-monitoring. 6. Monitoring for signs of hyperglycemia and DKA 7. Monitor fetal growth with NSTs as ordered.
<p>Supplies:</p> <ol style="list-style-type: none"> 1. Glucometer and test strips 2. Gloves 3. Sharps container 4. Rachel mom 5. Vital Sign machine 6. Alcohol wipe, tissues 8. Insulin pen 9. Diet plan from MyPlate printed 10. Patient Education Materials printed <p>*will need all of these supplies provided to us.</p>	

<ol style="list-style-type: none"> 1. A nurse is reviewing the blood glucose levels of a patient at 35 weeks' gestation with gestational diabetes. Which blood glucose reading would indicate that the patient’s blood sugar is well controlled? <ol style="list-style-type: none"> a. A. 95 mg/dL fasting b. B. 150 mg/dL fasting c. C. 165 mg/dL 1 hour after a meal d. D. 200 mg/dL 2 hours after a meal <p>Answer: A. 95 mg/dL fasting; within the recommended range for good blood sugar control during pregnancy according to our textbook.</p> 2. A pregnant woman with gestational diabetes asks how her condition might affect her baby after delivery. What is the best response by the nurse? <ol style="list-style-type: none"> A. “Your baby might develop type 1 diabetes immediately after birth.” B. “Your baby will likely need insulin injections for the first few days after birth.” C. “Your baby could have low blood sugar after delivery, but we will monitor and treat it if necessary.” D. “Gestational diabetes does not affect the baby after birth as long as it was controlled during pregnancy.” <p>Answer: B. “Your baby could have low blood sugar after delivery, but we will monitor and treat it if necessary”, Infants born to mothers with diabetes are at risk for neonatal hypoglycemia due to the extra insulin they produce to the mom’s high blood sugar.</p> 	
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Initiation of Scenario:**Case Study:**

Patient in bed-hand off received.

Patient reports increased hunger, increased thirst, increased urine output, fatigue, and blurred vision

Patient A&Ox4, nurse applies EFM

Vital Signs	T	98.0	HR	101	RR	22	BP	130/80 mmg	SPo2	98% RA	Pain	3/10	BS	230 mg/ dL
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Cardiac	Slight tachycardia
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Respiratory	Lung sounds clear
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Neuro	A&O x4
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Skin	WNL
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GI	WNL
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GU	Polyuria
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Other	EFM accelerations Mood: irritable due to patient not feeling good.
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First Frame:**Case Study:**

Nurse introduces self and begins assessment.

Patient A&O x4

Blood sugar obtained by nurse

Patient verbalizes that she is insulin dependent, and she is unable to afford medications.

Patient verbalizes she gets frequent infections of her bladder and vagina.

Vital Signs	T	98.0	HR	100	RR	22	BP	133/80	SpO2	98% on RA	Pain	3/10	BS	235 mg/ dL
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Cardiac	Slight tachycardia
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Respiratory	Clear lung sounds
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Neuro	A&O x4
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Skin	WNL
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GI	WNL
-----------	-----

GU	Polyuria
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Other	Polydipsia Polyphagia EFM Accelerations Mood: irritable due to patient not feeling good.
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Second Frame														
<p>Case Study: Acetaminophen 500 mg PO due to generalized pain score of 3/10 Primary nurse obtains a urinalysis Primary nurse calls HCP regarding urinalysis, and blood sugar level to obtain an order for insulin sliding scale. Gives SBAR to RRT</p>														
Vital Signs	T	98.0	HR	100	RR	22	BP	133/80	SpO2	98% NC	Pain	3/10	BS	235 Mg/dL
Cardiac	Slight tachycardia													
Respiratory	Clear lung sounds													
Neuro	A&O x4													
Skin	WNL													
GI	WNL													
GU	Polyuria													
Other	Fatigue Polydipsia Polyphagia EFM: Accelerations Mood: irritable due to patient not feeling good.													

Third Frame														
<p>Case Study: Administer newly ordered insulin aspart Reassess vital signs, blood sugar, and LOC Patient A&Ox4</p>														
Vital Signs	T	98.0	HR	98	RR	20	BP	130/80	SpO2	98% RA	Pain	3/10	BS	185 Mg/dL
Cardiac	WNL													
Respiratory	Lung sounds clear													
Neuro	WNL													
Skin	WNL													
GI	WNL													
GU	Polyuria													
Other	Fatigue Polydipsia													

		EFM: Accelerations Mood: irritable due to patient not feeling good.												
Scenario End Point														
Case Study: Patient responds to Lispro Nurse educates patient on Gestational diabetes, insulin adherence, diet, and resources (food stamps ect.).														
Vital Signs	T	98.0	HR	100	RR	20	BP	130/80	SpO2	98%	Pain	3/10	BS	185 Mg/ dL
Cardiac	WNL													
Respiratory	Lung sounds clear													
Neuro	A/O x4													
Skin	WNL													
GI	WNL													
GU	WNL													
Other	Mood: patient feeling better and less tired.													
Debriefing Questions: 1. What were the main risk factors for this patient developing gestational diabetes? 2. What challenges did you encounter while managing gestational diabetes during the simulation, and how did these interventions used impact the patient's outcome?														

Patient Report: Misty Meanor, 27-year-old female patient, 35 weeks pregnant, who is diagnosed with gestational diabetes (GDM). She has a history of PCOS, a previous pregnancy over 9 lbs., and a direct family history of type 2 diabetes. Blood glucose taken at home was 218 mg. Her GTPAL is G:2 T:1 P:0 A:0 L:1. She came in for polyuria, polydipsia, polyphagia, fatigue, and blurred vision. T: 98.0, HR: 101, RR: 22, BP: 134/80, SpO2: 98%, BS:230 mg/dL

Additional information, Medical History:

Patient data: Misty Meanor

DOB: 10/04/1997

MR#: 444444444

Prior medical history: Gestational Diabetes (insulin dependent), Frequent infections of bladder and vagina

Allergies: Penicillin and Eggs

Social history: None

**Firelands Regional Medical Center
Sandusky, Ohio
Physician's Orders**

**NAME: Misty Meanor
DATE ORD: 11/19/2024
ORD PHYS: Dr. Hugh Jass
ATTENDING: Dr. Hugh Jass
10/04/1997**

**STATUS: SIGNED
ROOM: 69
MR# 444444444
DOB:**

AGE: 27 years old

DATE: 11/19/2024

Date/Time	11/19/2024, 0700
XX/XX/XX	Admit to labor and delivery.
	Diagnosis: Hyperglycemia
	VS: every 2 hours
	Activity: stand by assist
	Diet: NPO until orders change
	I&O: Send urine to lab for urinalysis
	Other: Hook up to EFM and call for other orders
	Dr. Hugh Jass

Firelands Regional Medical Center
Sandusky, Ohio
LABORATORY

NAME: Misty Meanor
DATE ORD: 11/19/2024
ORD PHYS: Dr. Hugh Jass
ATTENDING: Dr. Hugh Jass
10/04/1997
AGE: 27 years old

STATUS: SIGNED
ROOM: 69
MR# 444444444
DOB:
DATE:

11/19/2024

URINALYSIS	XX/XX/XX Admission	Reference Range
pH	6.0	4.6-8
Specific Gravity	1.010	1.005-1.030
Glucose	3+	Negative
Protein	Trace	Negative
Blood	Negative	Negative
Ketones	Negative	Negative
Nitrite	Negative	Negative
Leukocyte esterase	Negative	Negative
Clarity	Clear	Clear
Color	Pale yellow	Pale yellow to amber

Stop	Medication	Time	TODAY 1/11/18																								
XX/XX/XX	 Insulin Aspart See Protocol SUBCUT TID.AC.HS SCH Trade: NovoLOG Flexpen Rx#: 00027473   	0800																									
XX/XX/XX		1200																									
		1700																									
		2200																									
	Give: See Protocol <input type="checkbox"/> Label Comments: *TI FOR HUMALOG, APIDRA * 28 DAY EXPIRATION *HIGH RISK MEDICATION-USE WITH CAUTION* *NAME IS SIMILAR TO OTHER MEDS, USE CAUTION* Dispose of med waste in Black bin																										
	<table border="0"> <thead> <tr> <th></th> <th>Scale A</th> <th>Scale B</th> </tr> </thead> <tbody> <tr> <td>-</td> <td></td> <td></td> </tr> <tr> <td>150-199</td> <td>2</td> <td>1</td> </tr> <tr> <td>200-249</td> <td>4</td> <td>2</td> </tr> <tr> <td>250-299</td> <td>6</td> <td>3</td> </tr> <tr> <td>300-349</td> <td>8</td> <td>4</td> </tr> <tr> <td>350-400</td> <td>10</td> <td>5</td> </tr> <tr> <td>>400</td> <td>12</td> <td>6</td> </tr> </tbody> </table> (call the physician) USE SCALE A WHEN MEAL OF 30 OR MORE CHO EATEN OR WHEN TUBE FEED/TPN RUNNING. USE SCALE B WHEN NPO, MEAL OF <30GM CHO EATEN, TUBE FEED/TPN NOT RUNNING AND HS. *NOT APPROPRIATE TO USE SCALE IF LESS THAN 3 HOURS SINCE PREVIOUS MEAL AND SCALE DOSE.		Scale A	Scale B	-			150-199	2	1	200-249	4	2	250-299	6	3	300-349	8	4	350-400	10	5	>400	12	6		
	Scale A	Scale B																									
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150-199	2	1																									
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250-299	6	3																									
300-349	8	4																									
350-400	10	5																									
>400	12	6																									

My Meal Planner: Portion Sizes

Pick 1 starch = 1 cup

Breakfast

Lunch or dinner

					
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Starch

Pick 1 protein = 4 ounces

Breakfast

Lunch or dinner

			
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Protein

Pick 2 or more vegetables = 2 cups

Vegetables

Ask your nutritionist if you should eat 1 fruit or 1 dairy product.

					
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HEALTHY EATING PLATE



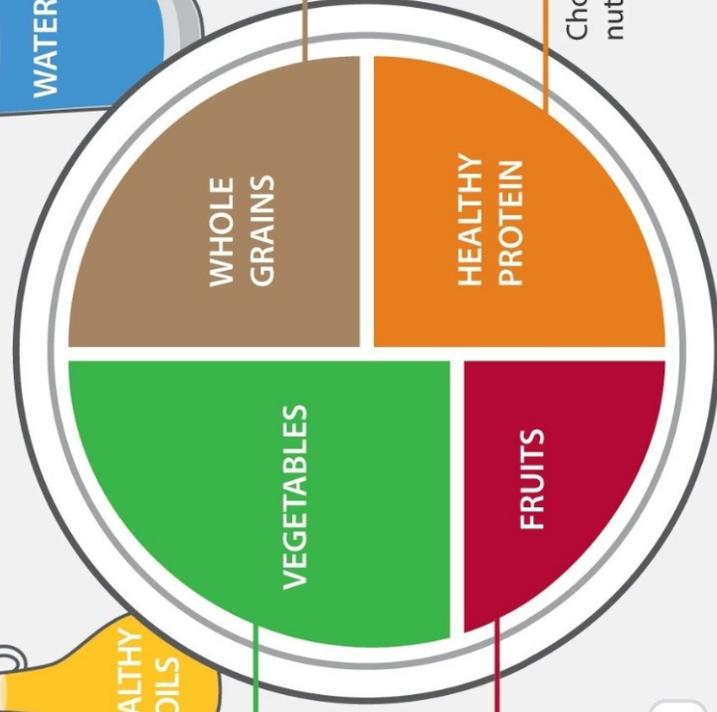
Use healthy oils (like olive and canola oil) for cooking, on salad, and at the table. Limit butter. Avoid trans fat.

The more veggies – and the greater the variety – the better. Potatoes and French fries don't count.

Eat plenty of fruits of all colors.



Drink water, tea, or coffee (with little or no sugar). Limit milk/dairy (1-2 servings/day) and juice (1 small glass/day). Avoid sugary drinks.



Eat a variety of whole grains (like whole-wheat bread, whole-grain pasta, and brown rice). Limit refined grains (like white rice and white bread).

Choose fish, poultry, beans, and nuts; limit red meat and cheese; avoid bacon, cold cuts, and other processed meats.



STAY ACTIVE!

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