

N311 Care Plan # 1

Lakeview College of Nursing

Trevor Davis

Demographics (5 points)

Date of Admission June 2019	Patient Initials PW	Age 70	Gender F
Race/Ethnicity White	Occupation N/A	Marital Status Not Married	Allergies Darvon/ Propoxyphene
Code Status Full code	Height 62 in	Weight 99.8 kg	

Medical History (5 Points)

Past Medical History: Pt. has a history of type 2 diabetes mellitus along with hypertension.

Past Surgical History: Pt. had “cataracts surgery in 2014, open heart surgery in 1999, a gall bladder removal in 2018, and her tonsils taken out at age 7”.

Family History: The patient’s father “died of a cardiac thrombosis at age 40”. Her mother died of “what she believes to be natural causes”.

Social History (tobacco/alcohol/drugs): Pt. was a social drinker (“one night a week”), smoked occasionally, but “no alcohol or cigarettes since 2009”.

Admission Assessment

Chief Complaint (2 points): “Gall bladder surgery, admitted for rehab in 2018”.

History of present Illness (10 points): The patient was admitted to Hilltop rehab in April, 2018 to recover from a cholecystectomy. She came to Odd Fellows in June, 2019 due to personal issues with residents/ staff at Hilltop. Currently on the pain scale of 0-10, the patient is at a 0/10. The patient is now a resident at Odd Fellows.

Primary Diagnosis

Primary Diagnosis on Admission (3 points): Type 2 diabetes mellitus

Secondary Diagnosis (if applicable): Hypertension

Pathophysiology of the Disease, APA format (20 points): Type 2 diabetes is a metabolic disorder that results in insulin resistance with insulin deficiency that results in hyperglycemia, without ketosis most of the time (Swearingen & Wright 2019). Untreated hyperglycemia can lead to hyperglycemic hyperosmolar state (HHS). Obesity is common among those with type 2 DM (Swearingen & Wright 2019).

Hypertension is high blood pressure that is controlled by four mechanisms: arterial baroreceptors, renal function, the renin- angiotensin system, and vascular autoregulation (Swearingen & Wright 2019).

Pathophysiology References (2) (APA):

Swearingen, P. L., & Wright, J. D. (2019). *All-in-one nursing care planning resource: medical-surgical, pediatric, maternity, and psychiatric-mental health*. St. Louis, MO: Elsevier.

Laboratory Data (20 points)

If laboratory data is unavailable, values will be assigned by the clinical instructor

CBC **Highlight All Abnormal Labs**—Explanations must be in complete sentences and contain in-text citations in APA format.

Lab	Normal Range	Admission Value	Today's Value	Reason for Abnormal Value
RBC	11.5- 14.5%			
Hgb	13-17 g/dL (M) 12-15 g/dL (W)		13	

Hct	40-52% (M) 36-47% (W)			
Platelets	150-400 X 10⁹/L		410	“Hyperglycemia contributes to greater platelet reactivity through direct effects and by promoting glycation of platelet proteins (Schneider 2009).” “Hypertriglyceridemia increases platelet reactivity. Both insulin resistance and insulin deficiency increase platelet reactivity (Schneider 2009)”.
WBC	4-10 X 10⁹/L		11	Elevated WBC count is associated with insulin resistance in patients with chronic diabetes and obesity (Krishnan 2017).
Neutrophils	2-8 X 10⁹/L			
Lymphocytes	1-4 X 10⁹/L			
Monocytes	0.2-0.8 X 10⁹/L			
Eosinophils	< 0.5 X 10⁹/L			
Bands	< 1 X 10⁹/L			

Chemistry **Highlight All Abnormal Labs**—Explanations must be in complete sentences and contain in-text citations in APA format.

Lab	Normal Range	Admission Value	Today's Value	Reason for Abnormal
Na-	135-145 mmol/L		134	Hyponatremia and hyperglycemia tend to coexist due to glucose being an osmotic active substance (Liamis, Tsimihodimos, Elisaf 2015). This leads to movement of water out of cells and subsequently to a reduction of serum sodium levels (Liamis, Tsimihodimos, Elisaf 2015).
K+	3.5-5 mmol/L		3.9	

Cl-	95-105 mmol/L		97	
CO2	35-45 mm/Hg			
Glucose	65-110 Mg/dL		225	High blood sugar (hyperglycemia) affects people who have diabetes. Several factors can contribute to hyperglycemia in people with diabetes, including food and physical activity choices, illness, nondiabetes medications, or skipping or not taking enough glucose-lowering (Hyperglycemia in diabetes 2018).
BUN	8-21 mg/dL		40	It is believed that higher Urea levels are associated with diabetes. Higher levels of urea increase insulin resistance and suppress insulin secretion (Xie, Bowe, Li, Xian, Yan, Al-Aly 2018).
Creatinine	0.8-1.3 mg/dL		1.7	Creatinine helps measure glomerular filtration rate to test kidney function. A buildup of creatinine means the GFR is lower than normal and could result in diminished kidney function associated with diabetes (Dinsmoor 2014)
Albumin	35-50 g/L			
Calcium	2-2.6 mmol/L (8.5-10.2 mg/dL)			
Mag	1.5-2 mEq/L			
Phosphate	0.8-1.5 mmol/L			
Bilirubin	2-20 µmol/L			
Alk Phos	50-100 U/L			

Urinalysis **Highlight All Abnormal Labs**—Explanations must be in complete sentences and contain in-text citations in APA format.

Lab Test	Normal Range	Value on Admission	Today's Value	Reason for Abnormal
Color & Clarity	Pale yellow-light amber, translucent			
pH	4.5-8			
Specific Gravity	1.005-1.025			
Glucose	≤ 130 mg/d			
Protein	≤ 150 mg/d			
Ketones	none			
WBC	≤ 2-5 WBCs/hpf			
RBC	≤ 2 RBCs/hpf			
Leukocyte esterase	negative			

Cultures **Highlight All Abnormal Labs**—Explanations must be in complete sentences and contain in-text citations in APA format.

Test	Normal Range	Value on Admission	Today's Value	Explanation of Findings
Urine Culture	No growth			
Blood Culture	No growth			
Sputum Culture				
Stool Culture	Negative			

Lab Correlations Reference (APA):

Farinde, PharmD, PhD, A. (2019, May 29). Lab Values, Normal Adult: Laboratory Reference Ranges in Healthy Adults. Retrieved from <https://emedicine.medscape.com/article/2172316-overview>

Lerma, MD, FACP, E. (2019, July 3). Urinalysis: Reference Range, Interpretation, Collection and Panels. Retrieved from <https://emedicine.medscape.com/article/2074001-overview#a1>

Urine Culture: Reference Range, Interpretation, Collection and Panels. (2017, January 7). Retrieved from <https://emedicine.medscape.com/article/2093272-overview>

Blood Culture: Reference Range, Interpretation, Collection and Panels. (2017, January 7). Retrieved from <https://emedicine.medscape.com/article/2093349-overview>

Dinsmoor, R. (2014, May). Creatinine - Diabetes Resources & Information: Diabetes Self. Retrieved from <https://www.diabetesselfmanagement.com/diabetes-resources/definitions/creatinine/>

Stool Culture: Reference Range, Interpretation, Collection and Panels. (2018, July 5). Retrieved from <https://emedicine.medscape.com/article/2107038-overview>

Schneider, D. J. (2009, April). Factors contributing to increased platelet reactivity in people with diabetes. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2660482/>
Liamis, G., Tsimihodimos, V., & Elisaf, M. (2015). Hyponatremia in Diabetes Mellitus: Clues to Diagnosis and Treatment. *Journal of Diabetes & Metabolism*, 06(06). doi: 10.4172/2155-6156.1000560

Krishnan, D. (2017). Study of relationship between WBC count and Diabetic complications. Retrieved from <https://www.ijmedicine.com/index.php/ijam/article/view/709>

Hyperglycemia in diabetes. (2018, November 3). Retrieved from <https://www.mayoclinic.org/diseases-conditions/hyperglycemia/symptoms-causes/syc-20373631>

Xie, Y., Bowe, B., Li, T., Xian, H., Yan, Y., & Al-Aly, Z. (2018, March). Higher blood urea nitrogen is associated with increased risk of incident diabetes mellitus. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/29241622>

Diagnostic Imaging

All Other Diagnostic Tests (10 points): No diagnostic imaging done.

**Current Medications (10 points, 2 points per completed med)
*5 different medications must be completed***

Medications (5 required)

Brand/Generi c	Novalog/ Insulin aspart	Maalox/ Aluminum Hydroxide and Magnesium Hydroxide Suspension	Lisinopril/ Prinivil	Byetta/ exenatide	Toujeo/ insulin glargine
Dose	1 unit/ml	200 mg.	5 mg.	5 mcg	10 units
Frequency	w/in 20 min of meal	As needed, no more than 80 mL/day	w/in 24 of onset of symptoms, 5 mg after 24 hrs, 10 mg after 48 hr. 10 mg daily for 6 weeks	2x daily morning and evening	Once/ day
Route	Subcutaneous injection	Oral/ chewable	Oral solution or tablet	Subcutaneous injection	Subcutaneous injection
Classification	antidiabetic	antacid	Antihypertens ive	antidiabeti c	antidiabetic
Mechanism of Action	binds to the insulin receptors on muscle and fat cells and lower blood glucose by facilitating the cellular uptake of glucose and simultaneously inhibiting the output of glucose from the liver.	An antacid that reduces gastric acid by binding with phosphate in the intestine, and then is excreted as aluminum carbonate in feces.	Reduces blood pressure by reducing angiotensin I to angiotensin II.	Restores first phase insulin response and improves the second phase that follows	insulin glargine regulates glucose metabolism by controlling high blood sugar levels in patients with type 1 and type 2 diabetes.
Reason Client Taking	Hyperglycemia	Acid reflux	Hypertension	hyperglyce mia	Hyperglycemi a
Contraindicat ions (2)	Aspirin, lasix	Aspirin, Azithromycin	Diuretics, gold	Sensitivity to exenatide, ketoacidosis	hypersensitivi ty reactions to insulin

					glargine, hypokalemia
Side Effects/Adverse Reactions (2)	Hypoglycemia, dizziness	Allergic reaction, constipation	Ataxia, confusion	Dizziness, headache	Anxiety, convulsions

Medications Reference (APA):

Insulin glargine Uses, Side Effects & Warnings. (0AD). Retrieved from <https://www.drugs.com/mtm/insulin-glargine.html>

Maalox: Indications, Side Effects, Warnings. (0AD). Retrieved from <https://www.drugs.com/cdi/maalox.html>

Jones & Bartlett Learning. (2019). *2019 Nurses drug handbook*. Burlington, MA.

Assessment

Physical Exam (18 points)

GENERAL: Alertness: Orientation: Distress: Overall appearance:	Alert ANO X 4 No pain 0/10 Pt. is well groomed and put together
INTEGUMENTARY: Skin color: Character:	Normal for ethnicity Warm, dry, semi-loose

Temperature: Turgor: Rashes: Bruises: Wounds: . Braden Score: Drains present: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Type:	Extremities are warm Normal turgor, fairly elastic None None None 19- low risk
HEENT: Head/Neck: Ears: Eyes: Nose: Teeth:	Normocephalic Intact Slow accommodation, pt. wears glasses Intact, no drainage Pt. wears dentures
CARDIOVASCULAR: Heart sounds: S1, S2, S3, S4, murmur etc. Cardiac rhythm (if applicable): Peripheral Pulses: Capillary refill: Neck Vein Distention: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Edema Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Location of Edema:	Normal, no murmur, RRR <div data-bbox="781 877 1328 984" style="border: 1px solid black; padding: 2px;"> Left radial pulse 84 bpm 2+ Capillary refill < 3 seconds </div> <div data-bbox="781 1041 1252 1098" style="border: 1px solid black; padding: 2px;"> Bilateral leg edema </div>
RESPIRATORY: Accessory muscle use: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Breath Sounds: Location, character	Breath sounds normal Pt. on supplemental O₂-2L continuous via NC
GASTROINTESTINAL: Diet at home: Current Diet Height: Weight: Auscultation Bowel sounds: Last BM: Palpation: Pain, Mass etc.: Inspection: Distention: Incisions: Scars: Drains: Wounds:	Low sugar diet Low sugar diet 62" 99.8 kg Active bowel sounds in all 4 quadrants This morning No pain or mass present None None None None None

<p>Ostomy: Y <input type="checkbox"/> N <input checked="" type="checkbox"/></p> <p>Nasogastric: Y <input type="checkbox"/> N <input checked="" type="checkbox"/></p> <p>Size:</p> <p>Feeding tubes/PEG tube Y <input type="checkbox"/> N <input checked="" type="checkbox"/></p> <p>Type:</p>	
<p>GENITOURINARY:</p> <p>Color:</p> <p>Character:</p> <p>Quantity of urine:</p> <p>Pain with urination: Y <input type="checkbox"/> N <input checked="" type="checkbox"/></p> <p>Dialysis: Y <input type="checkbox"/> N <input checked="" type="checkbox"/></p> <p>Inspection of genitals:</p> <p>Catheter: Y <input type="checkbox"/> N <input checked="" type="checkbox"/></p> <p>Type:</p> <p>Size:</p>	<p>Patient did not void urine during assessment.</p>
<p>MUSCULOSKELETAL:</p> <p>Neurovascular status:</p> <p>ROM:</p> <p>Supportive devices:</p> <p>Strength:</p> <p>ADL Assistance: Y <input checked="" type="checkbox"/> N <input type="checkbox"/></p> <p>Fall Risk: Y <input checked="" type="checkbox"/> N <input type="checkbox"/></p> <p>Fall Score:</p> <p>Activity/Mobility Status:</p> <p>Independent (up ad lib) <input type="checkbox"/></p> <p>Needs assistance with equipment <input type="checkbox"/></p> <p>Needs support to stand and walk <input type="checkbox"/></p>	<p>2+ radial pulse bilaterally. 1+ pedal pulse bilaterally</p> <p>Normal ROM in upper extremities</p> <p>Walker, wheelchair</p> <p>Fall risk score of 75</p> <p>Needs assistance with equipment to stand and walk</p>
<p>NEUROLOGICAL:</p> <p>MAEW: Y <input checked="" type="checkbox"/> N <input type="checkbox"/></p> <p>PERLA: Y <input type="checkbox"/> N <input checked="" type="checkbox"/></p> <p>Strength Equal: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> if no -</p> <p>Legs <input type="checkbox"/> Arms <input checked="" type="checkbox"/> Both <input type="checkbox"/></p> <p>Orientation:</p> <p>Mental Status:</p> <p>Speech:</p> <p>Sensory:</p> <p>LOC:</p>	<p>Patient does not accommodate well</p> <p>Right upper extremity is stronger</p> <p>ANO X 4</p> <p>Alert</p> <p>Clear speech</p> <p>Has feeling in all extremities</p> <p>Normal- conscious</p>

PSYCHOSOCIAL/CULTURAL: Coping method(s): Developmental level: Religion & what it means to pt.: Personal/Family Data (Think about home environment, family structure, and available family support):	Watches TV to cope with stress and boredom Appropriate for age N/A Family is distant
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Vital Signs, 1 set (5 points)

Time	Pulse	B/P	Resp Rate	Temp	Oxygen
11:18	84 bpm	128/62	16 respirations/min	98.6 deg F	97%

Pain Assessment, 1 set (5 points)

Time	Scale	Location	Severity	Characteristics	Interventions
11:30	0-10	None	0/10		

Intake and Output (2 points)

Intake (in mL)	Output (in mL)
None during assessment	None during assessment

Nursing Diagnosis (15 points)

Must be NANDA approved nursing diagnosis

Nursing Diagnosis	Rational	Intervention (2 per dx)	Evaluation
<ul style="list-style-type: none"> Include full nursing diagnosis with 	<ul style="list-style-type: none"> Explain why the nursing 		<ul style="list-style-type: none"> How did the patient/family respond

“related to” and “as evidenced by” components	diagnosis was chosen		to the nurse’s actions? • Client response, status of goals and outcomes, modifications to plan.
1. Potential for erratic blood glucose levels R/T inconsistent levels of exercise AEB patient being sedentary for extended periods of time.	Pt. suffers from Type 2 diabetes	1.Administer insulin at scheduled times 2.Check BP every 4 hours, alert provider when it is outside normal ranges	Patient had a positive reaction to interventions
2. Potential for skin breakdown R/T poor circulation in lower extremities AEB bilateral leg edema and 1+ pedal pulse.	Pt. suffers from Type 2 diabetes	1. Assess integrity of skin and assess reflexes of lower extremities 2.Monitor peripheral pulses	Patient had a positive reaction to interventions

Other References (APA):

Swearingen, P. L., & Wright, J. D. (2019). *All-in-one nursing care planning resource: medical-surgical, pediatric, maternity, and psychiatric-mental health*. St. Louis, MO: Elsevier.

Concept Map (20 Points):



