CLINICAL CARE PLAN & CARE MAP

Patient Data

Student: Emita Shahbazi Date of Care: 10/15 Patient initials: JK Admit date: 10/14 Floor/room # Allergies: Fosphenytoin, naproxen, penicillin, vioxx Code Status: Unknown

Demographics	Gender: F Spirituality:	Age:	57	Heig	ght: 165 cm	1	Weight:	90k	g Prima	ry langu	age: English
Vital signs	T: 38.4 type: Likert	HR:	111	RR:	19	BP:	100/69	O2sat:	95%	Pain:	0/10 Pain scale
Admitting Dx	SOB chest pa										
PMHx	Chest pain, SOB, asthma, congestive heart failure, depressive disorder, dependent drug abuse, migraines, non-insulin dependant diabetes mellitus, sciatica, hypertension. Drinks alcohol, and uses marijuanna and methanphetamines										
PSHx	2 Rt knee surgery, 4 Lt knee surgery, tonsils removal										
Surgery	Surgery this	admissic	n: Anio	gram	POD: 1						
		Adv	ance dire	ective: n	one	Isolation	: n/a		VS Fre	quency:	Q4
Diet order: card added salt	liac diet no		Activity order: as tolerated partial assist		lerated		Vascular access: Right Antecubital Left Forarm				ation list I heparin
Oxygen therapy	v: n/a	Fole	y: n/a			Feeding tube: n/a			Glucose checks: AC and at bedtime		
VTE prophylaxis: SCD Deparin		Drai	ns/tubes	: n/a			dressings: T from cath 1			Telemetry: Yes	
Restraints: n/a		Safe	ty issues	: Fall ri	sk	Braden: 2	21	-	1 -	rgeon ar	vest follow up nd family

Pathophysiology: required – evidence based reference(s) and citation(s).

Methanphetamine is a stimulant that increases dopamine in the brain. It binds to dopamine transporters which blocks dopamine from reuptake causing it to overstimlate the postsynaptic neurons. This causes prolonged intense euphoria to be felt by the user. The pathophysiology of the cardiovascular system in methamphetamine abusers remains largely unknown. According to Kevil et al., (2019), acute meth use is associated with vascular constriction and vasospasm, whereas chronic use causes endothelial damage and pulmonary hypertension. Methanphetamine causes vasoconstriction, elevated blood pressure, acute vasospasm, and atherosclerotic cardiovascular disease. It also causes structural and electrical remodeling of cardiac tissue which can cause arriythmias. Acute angina is associated with vasospasm of the coronary arteries, resulting in a decrease of blood flow to cardiac tissue.

Citation: Kevil, C. G., Goeders, N. E., Woolard, M. D., Bhuiyan, M. S., Dominic, P., Kolluru, G. K., ... Orr, A. W. (2019). Methamphetamine Use and Cardiovascular Disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 39(9), 1739–1746. https://doi.org/10.1161/atvbaha.119.312461

Lab and Diagnostic Test Data

LABS	Normal Range (Fill in Hospital Norms)	RESULT 1 (date & time)	RESULT 2 (date & time)	RESULT 3 (date &	Reason for abnormal lab values related to patient care & nursing implications	
CBC	Norms)	10/14/2020 02:40	10/15/2020 0340	time)	WNL patient is taking Heparain. Their RBC labs should be assessed prior to admnistraton of new Hepararin doasage. Heparain is an anticoagulant which will decrease clotting time.	
• WBC	4-11	7.2	6.2		3	
• RBC	3.8-5.2	4.08	3.89			
Hemoglobin (Hgb)	7-19	11.8	11.2			
Hematocrit (Hct)	35-47	36.1	34.5			
• MCV	80-98	88.5	88.7			
• MCH	27-32	29	28.8			
• MCHC	32-36	32.7	32.5			
• RDW	11.5- 14.5	15	15.3			
PLT COUNT	130-300	185	156			
WBC DIFF					WNL Pt does not have any infections. WBC greater than 11 is an indication for infection, inflammation, tissue necrosis, or leukemic neoplasia. Trauma or stress may increase WBC count.	
NEUTROPHIL %	42-75	53	46		*	
BANDS %						
LYMPHOCYTE%	20-50	33.7	39.5			
MONOCYTE %	2-14	11.2	11.6			

CHEMISTRY				Pt chemistry panel mostly WNL. Spiranalactone may decrease sodium levels and increase potassium. This lab panel is assessed for this pt specifically due to her heart failure. She was also NPO for one day due to her procedure. Overall Her nutritional levels are being met aeb her labs being stable.	
Sodium	136-145	134	135		
Potassium	3.5-5.1	4.4	4.4		
Chloride	98-107	106	105		
CO ₂ (bicarb)	21-31	21	23		
BUN	7-25	31	35		
Creatinine	.6-1.2	1	1		
GFR	>=60	57.81	56.5		
Glucose	74-109	198	91 at 0930 and 171 at 1230		
Calcium	8.6-10.3	8.6			
Iron					
Transferrin					
Iron/ Transferrin					
Phosphorus					
Magnesium	1.9-2.7	2.1			
Lactate					
Serum Ketones					
HbA1C					
LIVER PANEL				Pt has HX of drinking alcohol as well as using meth. Her lab levels are WNL.	
Total protein					
Albumin	3.5-5.7	3.2			

Bilirubin Total	.2-1	<.3			
Alk phosphatase	34-104	69			
HDL	23-92		28		
LDL	1-100		83		
AST	13-39	24			
ALT	7-52	31			
Lipase					
Amylase					
Ammonia					
Cholesterol					
Triglycerides					
Lactate					
Serum Ketones					
CARDIAC PANEL					
СРК					
CPK-MB	< 3	< 3			
Troponin	004	.64, .58 0655, .49 1200		Troponin labs are used as a cardiac cell marker. Tropnin is a protein found in cardiac muscle. Elevated tropning levels indicate a break down and damage of cardiac cells and muscle. PT has HX of CHF. Increased level of troponin may indicate an MI or heart damage due to pts condition.	
Myoglobin					
BNP	0-100	1,509		BNP is a protein produced in the ventricles of the heart. It gets realeased wit hthe change of pressure in the heart. BNP levels are higher than normal when an indivudal has heart failure.	

	1		1	T	1
COAGULATTION					
PT	9.5-11.5	11.1			
INR ratio	Critical high >4	1			
PTT	25-35	25	59 (10/14 13:00) 46 at 1015	The patient was given heparin as an antiplatelet blood thinner due to her scheduled angiography. The PTT levels are observed and the heparin dosages are changed according to the PTT level according to the physicians order.	
Fibrin level					
Fibrinogen					
Anti Factor Xa					
Bleeding time					
D-Dimer					
Drug levels					
UA collection type					
Urine color					
Urine appearance					
Specific gravity					
Urine Ph					
Urine glucose					
Urine bilirubin					
Urine blood					
Urine Ketones					
Urine Nitrites					
Urine Protein					
Urine Leukocytes					
URINE MICRO					

			1		
DIAGNOSTIC TESTS (ALL DIAGNOSTIC TESTS SHOULD BE HERE)					
ECG					
X ray					
Angiography					
Heart Cath. Lab					
CT Scans	10/14 0509	NO visible PE central pulmonary arteries enlarged compatible with pulmonary arterial HTN Small moderate size pleural effusion with compressive atelectasis Small patchy areas of left upper lobe ground glass and modular opacity which may be acute or chronic			

MRI Endoscopy		inflamm pneur Mode severe cardion worse th	monia rate to global megaly nan prior om 10/1 elated to rt failure diastinal					
Nuclear Scan								
				Med	ications			
Generic Trade Name Drug classification (Therapeutic & Pharmacologic)	Dose/ Frequ Rate Admini (if nee	ency e of stration	Pu	of Drug rpose fic to Pt)	Possi Side E		Nursing Considerations relate and teaching (What to assess, when to hose etc. Anything other than the the hospitalized patient not the hospitalized patient not be a second consideration of t	Id, what to teach, side effects that
G: Dobutrex T: Dobutamine Th: inotropics Ph: adrenergics	IV additive mg [5 mcg/k mixed with ml D5W infuse over hr Rate 13.5	g/min] th 250 IV er 18.5	cardiac of without significatincreasin Action: S	ntly ag HR Stimulates vocardial	Possible side include: hype increased hr	ertension	Only administered throu Use with nitroprusside n synergistic effect on incr output Beta blockers may negat dobutamine increase risk arrhythmia or htn Monitor BP HR or ECG	reasing cardiac re the effect of

Revised: Medical Surgical Committee 5/17/19

G: Hepalean T: heparin Th: anticoagulants Ph: antithrombotic	IV additive 25,000 units + ½ NS premix diluent 500 ml Duration	receptors. Produces chronotropic, hypertensive arrhythmogenic and vasodilation effects Purpose: anticoagulant Action: Prevention of thrombus	Possible side effects include: Bleeding, thrombocytopenia	Palpate peripheral pulses assess appearance Monitor potassium- may cause hypokalemia If HR >120 decrease to 3mcg/kg/min (Call pharmacy first) IV site assessment Adjustment scale based on PTT. below 35: 60 unit/kg IV Push bolus (MAX 4000 units) and increase rate by 4 units/kg/hr (MAX
Th. anuthomoute	12 hr total volume 500 ml Loading dose 60units/kg IV push Initial infusion rate 12 units/kg/hr	formation		400 units/hr) 35 - 45: 30 unit/kg IV Push bolus (MAX 3000 units) and increase rate by 2 units/kg/hr (MAX 200 units/hr) 46 - 70: NO CHANGE (THERAPEUTIC) 71 - 90: Decrease rate by 2 units/kg/hr, but do not decrease more than 200 units/hr above 90: HOLD infusion for 1 hr, then decrease rate by 3 units/kg/hr, but do not decrease more than 300 units/hr. Order baseline labs (prior to initiation of heparin): aPTT, PT/INR (if on warfarin therapy), CBC with differential Order aPTT 6 hours after bolus and 6 hours after any dosage change. If no dosage change is required following two consecutive aPTT's,

				change aPTT order to every 12 hours. After two consecutive aPTT's on every 12 hour schedule without dosage change, order aPTT every morning. IV site assessment
G: acetylsalicylic acid T: Aspirin Th: antipyretics, nonopioid analgesics Ph: salicylates	81 mg 1 tab chewed daily last given 0900	Purpose: Produce analgesia and reduce inflammation and fever by inhibiting the production of prostaglandins. Decreases platelet aggregation Action: Analgesia. Reduction of inflammation. Reduction of fever. Decreased incidence of transient ischemic attacks and MI.	Possible side effects include: GI bleeding, epigastric pain	Assess chest pain Assess for side effects Withhold if the following occurs; tinnitus, headache, hyperventilation, agitation, mental confusion, lethargy, diarrhea, and sweating.
G: Spironolactone T: Aldactone Th: potassium- sparing diuretics Ph: antagonist of aldosterone	25 mg = 1 tab oral Daily	Purpose Weak diuretic and antihypertensive response when compared with other diuretics. Conservation of potassium	Possible side effects include: hyperkalemia, hyponatremia, hyperchloremic Dizziness, headache	Monitor intake and output ratios. Monitor BUN, serum creatinine, and electrolytes. May cause increase serum magnesium, uric acid, BUN, creatinine, potassium, plasma renin activity, and urinary calcium excretion levels Assess BP Hr and ECG.

		Action Causes loss of sodium bicarbonate and calcium while saving potassium and hydrogen ions by antagonizing aldosterone		
G: Pepcid T:Famotidine Th: antiulcer agents Ph: H2 receptor antagonist	20 mg = 1 tab oral daily last given 0900	Purpose: Decrease excessive gastric secretion Action: Selectively block histamine H2 which inhibits basal and stimulated gastric acid secretion	Possible side effects include: Dizziness confusion	Unlabeled uses: Prevention of stress ulceration or aspiration pneumonitis IV assessment Flush with NS before and after medication administration Abdominal assessment
G: Lasix T: Furosemide Th: diuretic Ph: Loop diuretic, antihypertensive	40 mg=4 ml injection IV push q12hr	Purpose: Reduce edema hypertension subsequent mobilization of excess fluid Action: Inhibits sodium and chloride reabsorption at the proximal and distal tubules as well as the	Possible side effects include: Possible side effects include: Excessive urination fluid and electrolyte imbalances	Skin assessment for edema. Bladder scan if pt is not urinating Check pt electrolyte labs Monitor Input and Output levels IV site assessment

		ascending loop of Henley		
G: insulin lispro T: Humalog sliding scale Th: antidiabetics, hormones Ph: pancreatic	Subs TID AC and Q bedtime Use sliding scale 2 Units administered in upper left arm at lunch time	Purpose: Control of hyperglycemia in diabetic patients Action: Lowers blood glucose by: stimulating glucose uptake in skeletal muscle and fat, inhibiting hepatic glucose production. Other actions of insulin: inhibition of lipolysis and proteolysis, enhanced protein synthesis. A rapidacting insulin with more rapid onset and shorter duration than human regular insulin; should be used with an intermediate- or long-acting insulin.	Possible side effects include: hypoglycemia	MEDIUM DOSE Algorithm: For patients requiring 40 to 80 units of insulin daily. FOR USE ON ADULT (NON-PREGNANT) PATIENTS For FSBG below 70> follow hypoglycemia protocol. Prandial FSBG : Additional Insulin below 140 = 0 unit 140 - 199 = 2 units 200 - 249 = 4 units 250 - 299 = 6 units 300 - 349 = 8 units above 349 = 12 units Do not hold if NPO. Assess for symptoms of hypoglycemia (anxiety; restlessness; tingling in hands, feet, lips, or tongue; chills; cold sweats; confusion; cool, pale skin; difficulty in concentration; drowsiness; nightmares or trouble sleeping; excessive hunger; headache; irritability; nausea; nervousness Rotate injection site
G: nitroglycerin T: Minitran Th: :antianginals	.4mg/hr patch extended release daily	Purpose: Increases coronary blood flow by dilating	Possible side effects include: Dizziness	Assess BP, pain, ECG Label the patch

Ph: nitrates		coronary arteries and improving collateral flow to ischemic regions. Produces vasodilation Action: Relief or prevention of anginal attacks. Increased cardiac output. Reduction of BP	headache hypotension tachycardia	
G: Lanoxin T: Digoxin Th: inotropics Ph: digitalis glycosides	125 mcg = 1 tab oral daily	Purpose Increased cardiac output (positive inotropic effect) and slowing of the heart rate (negative chronotropic effect). Action Increases the force of myocardial contraction. Prolongs refractory period of the AV node. Decreases conduction through	Possible side effects include: Bradycardia nausea fatigue	Monitor apical pulse for 1 full min before administering. Withhold dose and notify health care professional if pulse rate is <60 bpm in an ad Monitor intake and output ratios. Assess for peripheral edema and auscultate lungs for rales/crackles throughout therapy.

	the SA and AV nodes.	

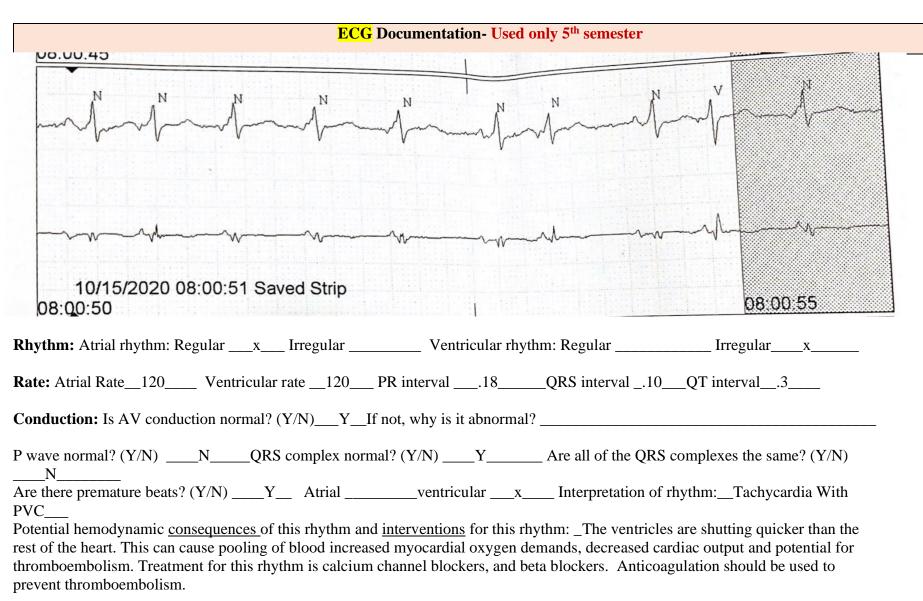
HEAD / NEURO	
L.O.C.	A&Ox4 no signs of head trauma
Optical	Patient has glasses for up close reading. PERRLA
Head and neck	WNL
Nose and Throat	WNL
Gross and Fine Motor	Pt has full ROM
RESPIRATORY	
Pulmonary	RR 19 O2 sat 95%. Crackles in beginning of shift in upper lobes bilaterally. Lower lobes diminished. End of shift clear lung sounds upper lobes, lower lobes still diminished bilaterally.
Breast and back	On 5 lead ekg.
CARDIO-VASCULAR	
Cardiac	Irregular rate and rhythm. Tachycardic with PVCs and frequent PACs. Radial pulses 2+ bilaterally . Pedal pulses found with doppler
Central	n/a
Peripheral	n/a
GASTROINTESTINAL	
Abdominal	Bowel sounds present in all 4 quadrants. Abdomen soft upon palpation LBM day before yesterday

Nutritional	Cardiac low sodium diet
GENITOURINARY	
Pelvic and rectal	n/a
MUSCULOSKELETAL	Pt has full ROM.
INTEGUMENTARY	
Skin / Hair	Skin moist and warm to touch. Feet dry and calloused. IV in right Antecubital left Forearm. Nitro patch on left upper arm. Pt is obese no signs of edema. TR Band on her right arm from cath lab.

SBAR REPORT: (What did you report off to the RN upon end of shift)

S: JK in room 96 is a 57 year old female admitted 10/14 for SOB and chest pain. She has an EF of 15-20% B: She has a history of asthma methamphetamine use and diabetes. Her drug allergies are listed on the EHR. She has no complaints of pain or shortness of breath currently except for SOB when she gets up and walks around . A: Her last set of vital signs are temperature of 36.8 F , heart rate 65 bpm, RR 18 , BP 99 / 64, O2 sat 95%. Her last finger stick blood sugar was 171 we gave her two units of insulin before lunch. She's A&Ox4. She's a pleasant patient. She has irregular heart sounds. Her upper lobes sound clear and her lower lobes are diminished bilaterally. She is an IV in her right antecubital and left forearm. The right IV has dobutamine running and the left IV used to have heparin running yesterday for the angiogram. Her radial pulses are 2+ bilaterally . Her pedal pulses were found using a Doppler . She has a TR band on her right arm from when she went to the cath lab last night. Everything looked okay according to the angiogram and there was nothing new noted. She has cardiomegaly and her ejection fraction is still around 20%. She's up to use the restroom by herself. Her last bowel movement was the day before yesterday and she had a total urine output of 1800 ml.

R: Continue to assess pt. Have the cardiac and diabetes education consultant come and speak to her. Have the life vest consultant speak with patient. The TR band will be removed 24 hours from her procedure.



(This form is used at the discretion of the clinical instructor; students will be assigned to use the Care Map or this alternative format)

Nursing Diagnoses

Priority Assessments:	Circulation and Pain	
ND #1 Decreased cardiac output r/t	ND #2 Risk for bleeding	ND #3 Risk for excess fluid volume r/t
CHF	r/t antiplatelet medication administration	heart condition and continuous IV medication administration.
AEB Pt having 15-20% EF.		
ND #4 Ineffective coping w/t dwg use	ND #5 Readiness for enhanced	ND #6 Activity Intolorongo w/t condigo
ND #4 Ineffective coping r/t drug use	knowledge	ND #6 Activity Intolerance r/t cardiac disorder
AEB Pt uses methamphetamine, drinks alcohol, and uses marijuana.		
	AEB	AEB
	Pt showing interest in care and asking questions about medication and life vest.	Pt reporting SOB when getting up and not wanting to get out of bed unless they need to use the bathroom.

Clinical Plan of Care CSU Stanislaus BSN

Nursing Interventions Classification (NIC)			
ND	Interventions	Evaluation of response	
1.Decreased cardiac output r/t CHF AEB Pt having 15-20% EF.	Asses for fatigue, dyspnea edema, and chest pain. Medication administration Assess vitals Q4h and monitor ECG Provide restful relaxing environment Apply SCD Sodium restriction Monitor I&O and Labs Gradually increase activity	No reports of pain fatigue or SOB. Pt has SOB while walking to and from the bathroom. Pt tolerating medication well. Pt is sleeping and resting while medical team is away from room SCDs on leg Pt is on low sodium diet at hospital Pt was educated on CHF and stated they read the provide handouts.	
2. Risk for bleeding r/t antiplatelet medication administration	Fall prevention techniques such as fall band on wrist, fall risk sign at the door and on white board in pt room. Nonskid socks on, two side rails up, bed at lowest setting, and nurse call light near patient. Assess pTT lab and administer appropriate heparin dosage	No falls during shift or bleeding Pt adhered to prevention tips pTT levels checked; WNL and appropriate heparin dosages were administered.	
3. Risk for excess fluid volume r/t heart condition and continuous IV medication administration.	Administer Lasix and spironolactone Monitor for pitting edema monitor I&O Auscultate lung sounds and monitor vital signs Elevate head of bed to 30 to 45 degrees Monitor electrolyte lab levels	No sign of edema. Lung sounds clear after administering medications Patient urinated 1800 milliliters during day shift Electrolytes WNL for pt condition	

4. Ineffective coping r/t drug use AEB Pt uses methamphetamine, drinks alcohol, and uses marijuana.	Assess for contributing factors to ineffective coping Decrease symptoms of pain and stressors Administer medication	Pt reports no pain and is adhering to and tolerating course of care. Pt expresses interest in making lifestyle changes. Pt reports they have not used meth, alcohol or marijuana in one month.
5. Readiness for enhanced knowledge AEB Pt showing interest in care and asking questions about medication and life vest.	Assess patient's eagerness to engage in self care Provide patient with education handouts Ask patient if they have any questions Refer client to interdisciplinary heath care members.	Pt expresses interest in care Pt stated they read their education hand outs Pt asks questions about medication. Pt is referred it diabetes and CHF nurse. A life vest representative spoke to pt during AM shift.
6. Activity Intolerance r/t cardiac disorder AEB Pt reporting SOB when getting up and not wanting to get out of bed unless	Assess patient's activity orders Observe pt while getting up Preform ROM exercise Allow for time for rest	Pt is able to walk to bathroom and back. She reports SOB when she is back in her bed after being up to use restroom. Pt does not have SOB while in bed. No reports of pain or coughing. Pt is resting when medical staff is out of pts room

they need to use the bathroom.		
bathroom.		

Student Clinical Self Appraisal Course 4810 Instructor J. Merriam Instructions: Please evaluate your performance during clinical today using the following concepts: Client Advocate Professional Demeanor Flexible Critical Thinking Communication/rapport Peer Support Self-Initiated Skills acquisition Team Player Safety Organized Educator Well-prepared Leadership Dependable Nursing Process Knowledgeable Areas of Strength Today (Date) Areas Needing Growth-Include plan of improvement Client advocate: Advocated to the nurse about Self-Initiated/Leadership: I let all of the nurses my patient's needs. know that I am available to assist them with any skill if need be Leadership: I made my self available to all of the nurses and took charge in my patients care Ability to Prioritize I provided care and organized and charting my day to my patient and then assisted with other patients. Technical skills: I practiced assessments, did med math, adnmistered insulin, took out an NG Communication/rapport: I was able to effectively tube (not my PT), removed IVs, and looked at communicate with the patient and other EKG monitors. individuals who were involved in her care. Critical thinking: I was able to put together my Well-prepared: Care plan was filled out prior to prior knowledge of CHF and what my patient clinical was presenting to enhance my knowledge on this condition. Knowledgeable: I did my research on the patient's condition prior to giving care. **Instructor Comments:**

Clinical Plan of Care