CHF ADMISSION/DISCHARGE CRITERIA

ADMISSION CRITERIA

- 1. History of CHF
- 2. Normal or unchanged ECG
- 3. Initial cardiac enzymes within normal range
- 4. Stable Vital Signs
- 6. Elevated Serum Cr > 1.8
- 7. < 500cc of urine output within 2 hrs of IV diuretic
- 8. BNP assay > 500 pg/ml

EXCLUSION CRITERIA

- ECG evidence of MI
- 2. High suspicion of MI
- 3. Unstable Vital Signs
- 4. Clear diagnosis of ACS by history
- 5. Mental status changes
- 6. Private attending chooses IP admission
- 7. Systolic BP less than 90 mmHg
- 8. Cardiogenic Shock
- 9. Evidence of low cardiac output syndrome

EMERGENCY DEPARTMENT INTERVENTIONS

- 1. IV, oxygen, ECG, CXR
- 2. Cardiac monitoring
- 3. Aspirin 325 mg po if not contraindicated
- 4. Initial cardiac enzymes obtained in Emergency Department
- 5. Nitrates as needed for pain
- 6. Emergency Department attending speaks with PMD or Cardiologist (on call)

OBSERVATION UNIT INTERVENTIONS

- 1. IV, oxygen, ST-segment monitoring
- 2. Obtain stat 12 lead ECG for worsening pain
- 3. Contact ED attending for rhythm abnormalities or ST-segment changes
- 4. Natrecor infusion for 15 hours, with repeat BNP
- 5. Time 0 and 4 hours CK, troponin, ECG
- 6. If cardiac enzymes abnormal, admit to hospital
- 7. If cardiac enzymes negative, order appropriate stress test.

DISPOSITION

- 1. HOME
 - a. Stable VS
 - b. Normal cardiac enzymes
 - c. Unremarkable stress test
 - d. No significant ECG changes
- 2. HOSPITAL
 - a. Unstable VS
 - b. Positive cardiac enzymes
 - d. ECG changes
 - f. ED/PMD/CARD clinical discretion

NOT A PART OF THE MEDICAL RECORD

CHF

Admission Orders

Private Physicia	ın:	_ Time Co	Time Contacted:			
Consult:						
Condition:	Stable	Serious				
Copies of Emer	gency Department H&P o	n chart				
Allergies:						
Routine Vital Si	-					
	ontinuous monitoring until					
	up ad lib Other:					
				_1500 cc Fluid Restrict _	Otl	
IV Fluids:	Saline Lock	Other:				
Oxygen:	Nasal cannula @	L/minute _	Other	·		
Medications:						
EC ASA 32	• •					
Tylenol 1 g	ram po every 6 hours prn	pain or fever > 1	01°			
Motrin 800	mg po every 6 hours prn	pain				
Ultram 50 r	ng po every 6 hours prn p	ain				
SL NTG 0.4	1 mg prn chest pain every	5 minutes x 3				
Maalox 30	cc po every 4 hours prn ir	ndigestion				
Ambien 10	mg po every hs prn sleep	•				
Lovenox 40	mg SQ every day					
Cardiac Medica	tions:					
Loop Diuretics						
	e (Lasix)mg IV every					
Torsemide	(Demadix)mg IV ev	ery 12 hours				
ACE inhibitors						
Altace 2.5 r	ng po once daily					
Vasotec 2.5						
Angiotensin Re	ceptor Blockers (ARB's)					
Cozaar 50	mg po BID					
Diovan 80 ı	ng po BID					
Beta Blockers (continue only if chronic th	erapy over 2 wee	eks)			
Coreg 3.12	5 mg po BID					
Toprol XL 2	25 mg po daily					
Emergency Der	partment Physician Signat			ate/Time		

16.	Testing Orders:
	CK and troponin at 0 and 4 hours from Emergency department arrival, results on flow sheet
	12 Lead ECG at 0 and 4 hours from Emergency department arrival
	STAT 12 Lead ECG for monitor alert, chest pain
	BNP at 18 hours
	PT/INR, CMP, CBC in am
	2D Echo with Doppler, % EF

- 17. Contact Emergency Department Physician for positive tests results, abnormal rhythm or ST segment changes.
- 18. Re-evaluate for discharge every 3 hours.
- 19. Smoking cessation instructions.

Emergency Department Physician Signature Date/Time SBP >90? Yes No Is Cr >1.8? Start Dopamine No Yes **Start Natrecor** Start Loop Diuretic Diuresis > 500 ml Diuresis > 500 ml in 2 hours in 2 hours Yes No Add Loop Diuretic at a lower dose Continue Loop Diuretic 3-4 Start Natrecor x a day for >2000 ml / day

Nesiritide (1	Natrecor®) Sta	anding Or	ders				
Date:	·	Time:	Patie	nt Weight: lbs kg			
Inclusion Cri			apply)				
	ed Serum Cr >	_	0.1 1)/				
diuretic	c of urine out	out within	2 nrs IV				
	ssay > 400 pg	ı/ml					
	e volume ove		sk of	Hold Nitroglycerin (if active) immediately			
intuba	tion						
				prior to Nesiritide (Natrecor®)			
	riteria: (Chec						
	Systolic B	P less tha	ın 90 mmHg	Give Loop Diuretic IV Bolus			
	 Cardiogen 	ic Shock		(2x oral dose recommended)			
	□ Evidence	of low car	diac output	□ Furosemide (Lasix [®])mg IV push			
	syndrome	مادات		- Durantasida (Durana (B))			
	Cold, clammy			□ Bumetanide(Bumex®)mg IV push			
0	Mental status	changes		Torsemide(Demedex®)mg IV push			
Rolus	Volume and I	nfusion F	ow Rate	3. Begin Nesiritide (Natrecor®) bolus of			
	250 mL = 6 r			□ 1 mcg/kg over 1 min 15 min.			
1.0 mg		g/1111 0C		1 mogrky ovor r min ro min.			
Bolus Volum	e (mL)			2 mcg/kg over 1 min 15 min.			
For 1 mcg/kg:	bolus = patie	ent weigh	t (kg) ÷ 6	 No bolus 			
For 2 mcg/kg:	: bolus = patie	ent weigh	t (kg) ÷ 3	NOTE : Bolus should be drawn from diluted 250 mL			
Infusion flow				bag, NEVER from the reconstituted vial			
	/kg/min (mL/h	r) = patieı	nt weight (kg) ÷	4. Begin Nesiritide infusion at 0.01 mcg/kg/min			
10							
Patient	Volume of Bol	ue (ml)	Infusion Rate	5. Check BP Q15 minutes x 1 hr following bolus,			
Weight		2mcg/kg	(mL/hr)	then			
(kg)		0 0		6. Check BP Q30 minutes x 1 hr, then			
60	10	20	6	7. Check BP Q 1 hour x 2 hrs, then			
70	11.5	23	7	8. Check BP Q 4 hours for duration of infusion			
80	13.5	27	8	9. 1-2 hours prior to next infusion bag assess to			
90	15	30	9	determine need for continued therapy			
100	16.5	33	10	10. For BP less thanmmHg, call Doctor and			
110 120	18.5 20	37 40	11 12	decrease infusion by ½ (0.005 mcg/kg/min)			
120		10	12				
Note: The bolus should be drawn from the diluted				11. For BP less thanmmHg, call Doctor and			
250 mL bag and NEVER from the reconstituted vial.			constituted vial.	D/C Nesiritide			
				12. Stop Nesiritide at 18 hours of infusion or			
				Stop at hours/days of infusion			
				Signature:			

CHF PROGRESS NOTE

Addressograph

Please	date and sign each entry.				
DATE:					
PROTO	PROTOCOL: CHF				
RELEV	RELEVANT HISTORY/PHYSICAL FINDINGS:				
OBSER	RVATION INTERVENTIONS:				
	0 ₂ % Saturation Monitor	Natrecor infusion			
	Cardiac Monitor				
	Cardiac Enzymes				
GOALS	S OF OBSERVATION PERIOD:				
HOW C	OFTEN WILL PATIENT BE EVALUATE	D BY PHYSICIAN:			
MORNI	NG PLAN				
PRIMARY PHYSICIAN CONTACTED:					
	YES NAME:				
	NO				

ATTENDING SIGNATURE / DATE

CHF DISCHARGE NOTE

Addressograph

DATE:				
TIME:				
PRESENTING COMPLAINT:				
0 hour CK 0 hour Troponin	ECG 2 4 hour C 4 hour T BNP 2			
PHYSICAL EXAM:				
DIAGNOSIS:				
DISPOSITION:		Home	Admission	
DISCHARGE INSTRUCTION GIV	VEN:	Yes	No	
PRIMARY PHYSICIAN CONTAC	CTED:	Yes	No	
NAME:				
FOLLOW UP:				
ATTENDING SIGNATURE / DAT				