ACTIVE LEARNING TEMPLATE: *Medication*

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MEDICATION Milrinone REVIEW MODULE CHAPTER

CATEGORY CLASS Inotropic/Phosphodiesterase Inhibitor

PURPOSE OF MEDICATION

Expected Pharmacological Action

Increase myocardial contractility and cardiac output by inhibiting phosphodiesterase which is an enzyme that breaks down cAMP which works to increase contractility of the heart.

Therapeutic Use

-short-term treatment for low cardiac output in relation to HF

Complications

-hypokalemia
-cardiac dysrhythmias
-hypotension
-anginal chest pain

Contraindications/Precautions

-allergy to phosphodiesterase inhibitors
-aortic/pulmonary valve disorder or acute MI
-older adults
-renal impairment
-atrial flutter or fibrillation

Interactions

-disopyramide an antidysrhthmic drug may cause severe hypotension
-incompatible when infused with furosemide and procainamide

Evaluation of Medication Effectiveness

-decrease in the manifestations of HF
-improvement in hemodynamic parameters

Medication Administration

-availble for IV infusion only
-give loading dose over 10 min.
-follow with continuous infusion based on patients weight
-use dedicated IV line
-dose: 20mg/100mL or 40mg/200mL

Nursing Interventions

-correct fluid deficits & hypokalemia prior to giving
-monitor potassium levels
-monitor VS & ECG
-decrease dose for dysrhythmias or low BP
-monitor for chest pain

Client Education

-laboratory monitoring needed before, during, and after infusion
-educate that ECG and VS monitoring is performed continuously during infusion
-report any chest pain