

HNE AREA Intensive Care

Approved For: JHH and CMN ICU's

Phenylephrine Hydrochloride

Trade Name: Neo-Synephrine

Presentation: Ampoule 10mg/ml

Indications: Phenylephrine hydrochloride is a powerful postsynaptic alpha-receptor stimulant with little effect on the beta-receptors of the heart.

Used for treating hypotension in vasodilated states (shorter duration of action than metaraminol but longer than adrenaline)

Administration; **IV Bolus:** Dilute 1/100

Dilution steps (to ensure a high concentration syringe is not made up)

Add to a 100ml bag of saline 10mg(1ml) of neo-synephrine , this results in a concentration of 100 mcg/ml.

alternative dilution technique:

1. Take 1 ml from a 10ml saline ampoule and discard, add to the remaining 9mls of saline ampoule 1 ml of neo-synephrine - the concentration is then 1mg/ml

2. Take 1 ml out of saline ampoule with neo-synephrine and dilute with 9ml of saline in a 10 ml syringe - **final concentration 100mcg/ml - use this concentration for administering to the patient**

3. Discard the saline/neo-synephrine ampoule in bin

dose between 50 - 100 mcgs(2-10mcg/kg)

IV infusion: 20mg is made up to 50mls with normal saline(400mcg/ml). Commence at 2mls per hour. Dose range 1-5mcg/kg/min

Dose

Precautions **Must be delivered via central venous line unless in an emergency**

Contains sodium metabisulphite

All patients receiving phenylephrine infusions require central venous and arterial monitoring.

At anything more than 6 mls per hour, problems with hypotension are likely when syringes are changed, efficient changing or the use of two pumps is indicated.

Do not use solution's if they are brown in colour or contain precipitate.

Compatibilities:

Created: 01-Jan-04 by Dr K Havill Reviewed: 01-Oct-05 by Dr A Mullens Guideline to be reviewed before : 01-Oct-09
These guidelines are intended for and to be used only by experienced critical care staff under direct supervision of Hunter Health Area Intensive Care Specialists in designated Hunter Health Area Critical Care Areas. The Authors will not be responsible for inappropriate use of these guidelines