

Noradrenaline (Norepinephrine)

FORM Ampoule containing 2mg/2ml noradrenaline base

INDICATION Hypotension

DOSE RANGE

AGE	DOSE	FREQUENCY	ROUTE
0 – 6 months	0.01 – 0.1 microgram/kg/minute Doses of up to 0.3micrograms/kg/minute may be required in exceptional circumstances under consultant advice.	Continuous infusion	IV

PRESCRIPTION OF CONTINUOUS INFUSION

LOW CONCENTRATION - STARTING CONCENTRATION

FOR DOSES ≤ 0.1microgram/kg/minute
0.3mg/kg of noradrenaline base in 50ml infusion fluid

This gives:-

- 0.02microgram/kg/minute at 0.2ml/hour
- 0.05microgram/kg/minute at 0.5ml/hour
- 0.1 microgram/kg/minute at 1ml/hour

HIGH CONCENTRATION

FOR DOSES > 0.1microgram/kg/minute
3mg/kg of noradrenaline base in 50ml infusion fluid

This gives:-

- 0.1microgram/kg/minute at 0.1ml/hour
- 0.3microgram/kg/minute at 0.3ml/hour

RECONSTITUTION

Already in solution. **MUST be diluted prior to use.**

DILUTION

LOW CONCENTRATION

Using Noradrenaline 2mg/2ml injection;

0.3 x wt (kg) is the number of ml of noradrenaline 1mg/1ml to be diluted up to 50ml total with infusion fluid (equivalent to 0.3mg/kg in 50ml)

HIGH CONCENTRATION

Using Noradrenaline 2mg/2ml injection;

3 x wt (kg) is the number of ml of noradrenaline 1mg/1ml to be diluted up to 50ml total with infusion fluid (equivalent to 3mg/kg in 50ml)

METHOD OF ADMINISTRATION

By continuous intravenous infusion via, flow rate adjusted according to the baby's response. **Must be infused through a central line**

West of Scotland NEONATAL Parenteral Drug Monographs

COMPATIBILITY

Solution compatibility	Sodium chloride 0.45%, Sodium chloride 0.9%, Glucose 5%, Glucose 10%
Solution incompatibility	No information
IV Line compatibility	Adrenaline, Dobutamine, Dopamine, Gentamicin, Heparin
IV Line incompatibility	Furosemide, Ranitidine, Sodium bicarbonate

THIS LIST IS NOT EXHAUSTIVE PLEASE CONTACT PHARMACY FOR FURTHER INFORMATION ON COMPATIBILITY WITH ANY MEDICINES NOT INCLUDED

CAUTIONS, CONTRA-INDICATIONS AND SIDE EFFECTS

See Summary of Product Characteristics and most recent edition of BNF for Children (links below)

SPECIAL MONITORING REQUIREMENTS

Invasive blood pressure monitoring data should be available during treatment, and dosage titrated according to response. Cardiac monitoring should be available. Noradrenaline has been found to be arrhythmogenic in some patients.

FURTHER INFORMATION

Must be administered via a central venous catheter (except when administered by a physician with appropriate experience in the management of hypotension in the absence of central venous access). Peripheral administration increases the risk of local tissue ischemia.

If extravasation occurs, the area should be infiltrated with phentolamine without delay and plastic surgery consulted for review.

The solution should be discarded if it is brown in colour.

PH

3.0-4.5

LICENSED STATUS

Not licensed for use in children

LINKS

[BNF for Children](#) / [Electronic Medicines Compendium](#):

APPLICABLE POLICIES

[West of Scotland Neonatal Guidelines](#):

Consult local policy if applicable

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Administer reconstituted solutions immediately.

All vials, ampoules and infusion bags are for single use only unless otherwise stated.

Dose may vary depending on indication, age, renal function, hepatic function, and concomitant medications. This monograph should be used in conjunction with the package insert, BNF for Children, and Summary of Product Characteristics. For further advice contact your clinical pharmacist or pharmacy department.