

NEO – Infusion - Continuous Medication Infusions



This Quick Reference Guide will explain how to:

Order, Modify and Discontinue Neonatal Continuous Medications

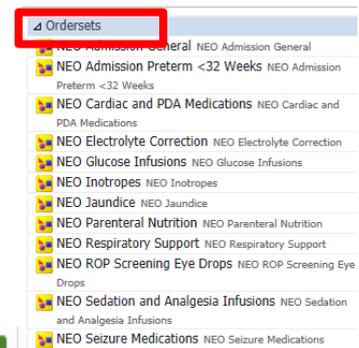
Definitions:

Quick Orders - Custom made page that displays common orders. It is a 'one stop shop' for patient orders, including medications, pathology, imaging, ordersets and patient care tasks

NEO Dosing Weight - Is a weight used by the Neonatal team to calculate medication dosage which displays on the banner bar for all patients under 1 year of age

Ordering via the Quick Orders mPage

1. Click on **Medical Officer View** from the Table of Contents and then select the **Neonatology Quick Orders** mPage.
2. Continuous Medication orders can be found via the **Ordersets** available on the **Quick Orders mPage**. These can also be searched for these manually via the Orders and Referrals page
3. Click on the appropriate orderset
4. Select multiple orders if required and then click on the shopping cart icon at the top right corner.
5. Click **Modify Details** to open the ordering window.
6. Select the appropriate infusion order on the orderset by ticking the checkbox next to the order



Modify Details

NEO Inotropes (Initiated Pending)		
NEO Inotropes		
<< Refer to WH Neonatal Medication Resource for individual monographs and full dosing guidance		
HIGH RISK		
MEDICATIONS		
Adrenaline (Epinephrine)		
Usual dosage range: 0.05 - 1 MICROg/kg/min		
<input checked="" type="checkbox"/>	adrenaline (epinephrine) (additive) 0.6 mg/kg + Glucose 5% infusion 25 mL	25 mL, IV Infusion, mL/hr. Total volume (mL): 25 STRENGTH (1 mL/hour equiv 0.4 MICROg/kg/min)
DOButamine		
Usual dosage range: 5-20 MICROg/kg/min		
Single Strength Infusions		
<input type="checkbox"/>	DOBUtamine infusion NEO SINGLE (30 mg/kg in 25mL) in Glucose 10%	25 mL, IV Infusion, mL/hr SINGLE STRENGTH (1mL/hr equiv 20 MICROg/kg/min)
<input type="checkbox"/>	DOBUtamine infusion NEO SINGLE (30 mg/kg in 25 mL) in Glucose 5%	25 mL, IV Infusion, mL/hr SINGLE STRENGTH (1mL/hr equiv 20 MICROg/kg/min)
<input type="checkbox"/>	DOBUtamine infusion NEO SINGLE (30 mg/kg in 25 mL)	25 mL, IV Infusion, mL/hr



- The Dosage Calculator will automatically launch in a separate window
- The dose is calculated based on the Target dose and the dosing weight. The dosing weight will default the last documented **NEO Dosing Weight**
- Click on **Apply Dose** to accept the calculated dose

The screenshot shows the 'Dosage Calculator' window for 'adrenaline (epinephrine) (additive)'. It includes fields for target dose (0.6 mg/kg), calculated dose (2.1 mg), and final dose (2.1 mg). Patient information includes a date of birth of 16/10/2022, sex female, and a height of 44 cm. The 'Actual weight' and 'Adjusted weight' are both 3.5 kg. A red box highlights the '14/07/2023 15:58 3.500 kg NEO Dosing Weight' in the 'Adjusted weight' source dropdown. At the bottom right, another red box highlights the 'Apply Dose' button.

! Important – Dosing Weight

The Dosage Calculator will default the most recently documented neonatal dosing weight. The prescriber should **always** check that the dosing weight is correct before applying the dose. This can be viewed in the Banner Bar or Related Results.

If the weight is modified in the Dosage Calculator it **will not update** elsewhere in the EMR. The NEO Dosing Weight must be updated via the Dosing Weight and Fluid Intake Goals NEO Powerform.

- The screen returns to the orders screen and defaults to the **Continuous Details** tab on the scratchpad.

- Enter a Normalized Rate in the **Normalized Rate** field. This will then populate the **Rate** and **Infuse Over** time. Alternatively, you can enter a Rate in **mL/hr**.
Note: Normalized rate is a rate that is **not** mL/hr.

- Update the **Weight** field to match the dosing weight. You can find this in the Banner Bar or in Related Results

The screenshot shows the 'NEO Inotropes (Initiated Pending)' screen. It lists medications including 'Adrenaline (Epinephrine)' with a dosage of 2.4 mg + Glucose 5% infusion 25 mL. Below, the 'Details for adrenaline (epinephrine) (additive) 2.4 mg + Glucose 5% infusion 25 mL' are shown. The 'Continuous Details' tab is selected and highlighted with a red box. A table below shows the 'Normalized Rate' field highlighted with a red box.

Base Solution	Bag Volume	Rate	Infuse Over
Glucose 5% infusion	25 mL	mL/hr	
Additive	Additive Dose	Normalized Rate	Delivers Occurrence
adrenaline (epinephrine) (additive)	2.4 mg		EB
Total Bag Volume	25 mL		

Weight: 3.5 kg Weight Type: Manually Entered Result dt/tm: 31/07/2023 09:54:05



13. Review the order **Details**, **Continuous Details** and **Order Comments** and click on

Orders For Signature

to sign the order

14. The order(s) will appear on the MAR under the **Continuous Infusions** section

Continuous Infusions	Pending
adrenaline (epinephrine) (additive) 2.1 mg [0.4 MICROg/kg/min] Glucose 5% infusion 25 mL 25 mL, IV infusion, Rate: 1 mL/hr, First dose 15/07/2023 01:56:00, Total volume (mL): 25 STRENGTH (1 mL/hour equiv 0.4 MICROg/kg/min) Target Dose: adrenaline (epinephr... Administration Information adrenaline (epinephrine) Glucose 5% intravenous infusion solution	Not given within 5 days.



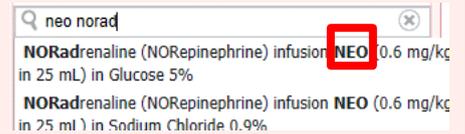
Handy Hint – IV Sets

Neonatal continuous infusion IV sets can be ordered individually (i.e. not part of an orderset) via the

New Order Entry +

widget on the Quick Orders mPage, or via Orders and Referrals. The IV sets will be

denoted with **NEO**, in line with neonatal IV set naming conventions



Modifying or Discontinuing infusions



Important – Modify vs Cancel/Discontinue

- **Modify** should be used to update an infusion to reflect a change in dose, rate, frequency and order comments.
- **Cancel/DC** should be used to update an infusion order to reflect a change in the constituent, diluent and prescription as the patient grows and gains weight.

For information about modifying infusions, please refer to the [Infusions - Modifying Infusions](#) QRG

Discontinuing orders using Cancel/DC:

1. Select “**Orders and Referrals**”
2. Under “View”, select “Continuous Infusions” or “Medications” to view the existing infusions
3. Right click the order and select “**Cancel/DC**”.
4. Enter a discontinue reason (e.g. No longer necessary) and **sign** off the order
5. The discontinued order will appear greyed out on the MAR under the Discontinued section

