



EMR Quick Reference Guide

Medications – Paediatric – Asthma Orderset

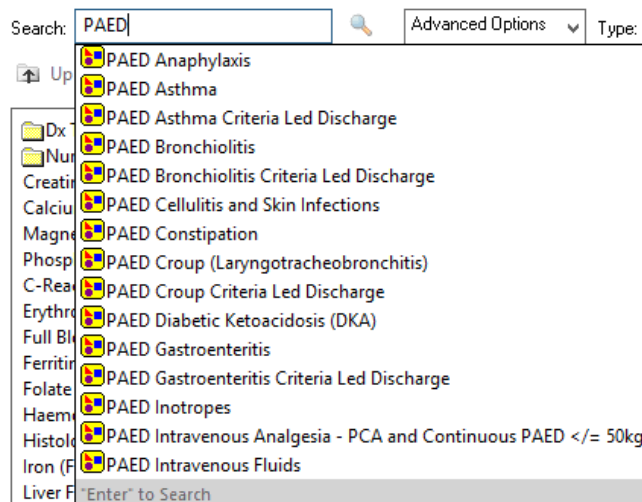
- [Placing initial orders from the PAED Asthma Orderset](#)
- [Placing further orders once the Orderset has already been signed](#)
- [Meds: Intravenous](#) (includes [Magnesium Infusion](#), [Aminophylline Loading Dose](#) & [Aminophylline Subsequent Infusion](#))
- [Meds: Preventative](#)

Placing initial orders:

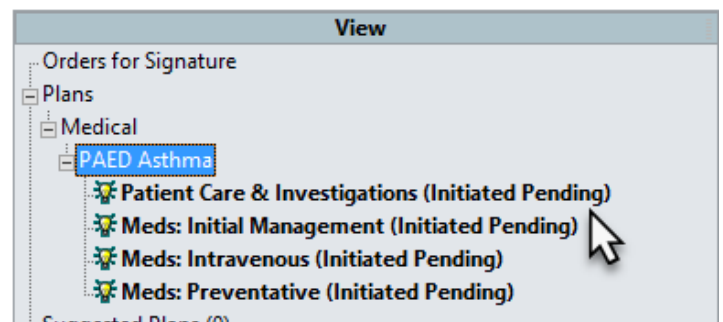
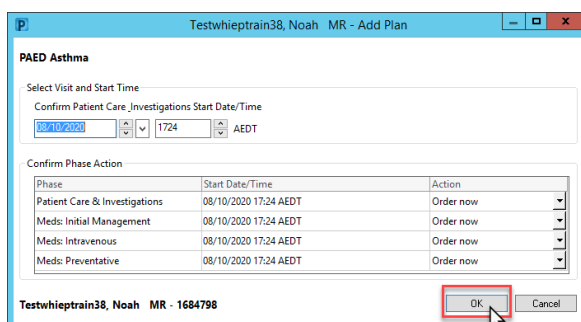
1. Select **Orders** and click **+Add**



2. Enter **PAED** into the search box to display all paediatric ordersets:



3. Select **PAED Asthma**
4. The PAED Asthma order set contains multiple phases. Select **OK** then click on each phase under the **View** tab on the left hand side to view the contents.





5. Select all required orders from the **Patient Care & Investigations** phase:

PATIENT CARE	
<input type="checkbox"/>	<input checked="" type="checkbox"/> Oxygen (O2) Therapy Paediatric/Newborn
<input type="checkbox"/>	<input checked="" type="checkbox"/> Non-invasive Ventilation (NIV) Paediatric/Newborn
<input type="checkbox"/>	<input checked="" type="checkbox"/> Education Asthma
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <-- Paediatric Asthma Action Plan
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Communication Order
PATHOLOGY	
<input type="checkbox"/>	<input checked="" type="checkbox"/> Blood Gas Arterial (ABG)
<input type="checkbox"/>	<input checked="" type="checkbox"/> Blood Gas Capillary (CBG)

***Note*:** Some order sentences will filter to the correct dose based on the patient's age

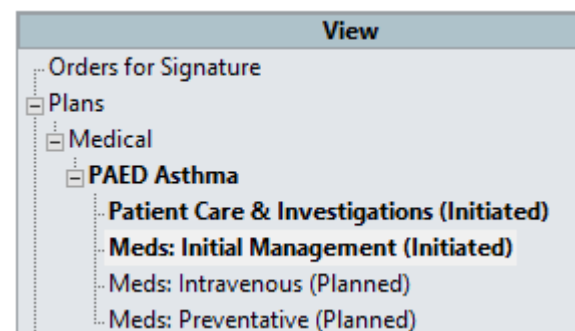
6. Select all required orders from the **Meds: Initial Management** phase:

MEDICATIONS	
Inhaled Bronchodilator BURST therapy	
<input checked="" type="checkbox"/> salbutamol (salbutamol 100 mcg/inh pressurised inhalation)	12 puff(s), Inhalation, >= 6 years, Administer
<input checked="" type="checkbox"/> ipratropium (ipratropium 21 mcg/inh pressurised inhalation)	Select an order sentence
Inhaled Bronchodilator Therapy	
<input checked="" type="checkbox"/> salbutamol (salbutamol 100 mcg/inh pressurised inhalation)	Select an order sentence
<input checked="" type="checkbox"/> ipratropium (ipratropium 21 mcg/inh pressurised inhalation)	Select an order sentence
NEBULISED Therapy	
<input checked="" type="checkbox"/> salbutamol (salbutamol 5 mg/2.5 mL inhalation solution)	5 mg, Nebulised, Nebulisation

7. Select to review all orders and complete any mandatory details. Then and review the **MAR / MAR Summary**.

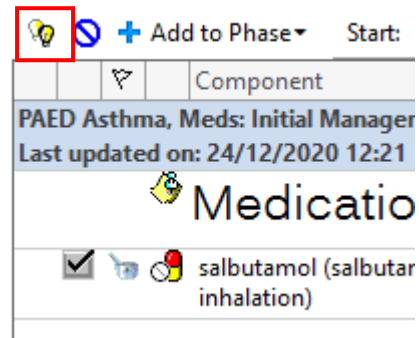
Placing further orders:

8. Navigate back to the **Orders** page > **View** tab. Note the phases you have already signed have been *Initiated*, and other phases are still *Planned*.



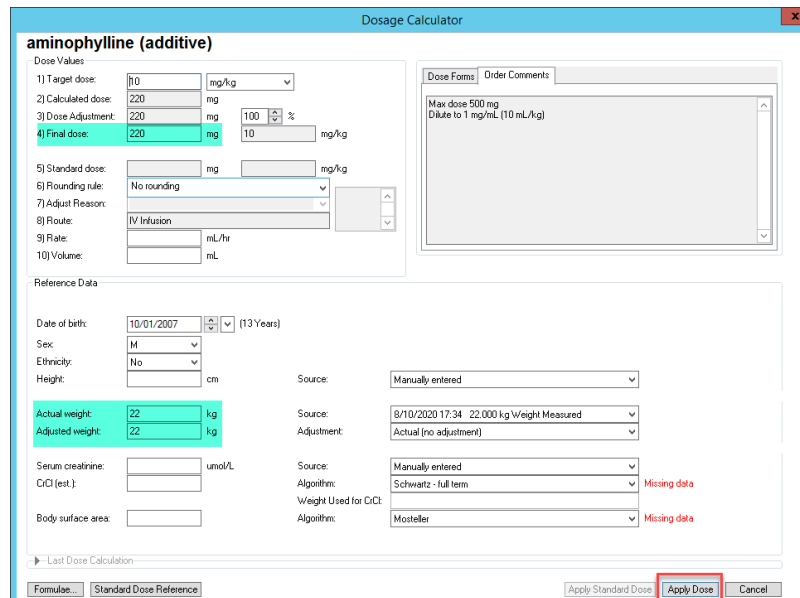
9. The *Initiated* phases will only display orders that have already been signed. **To place further orders from the same phase**, click the lightbulb icon to 'reset' the phase to its original view.

Then select orders and sign as usual.



“Meds: Intravenous” phase

10. Select all required orders from the **Meds: Intravenous** phase
11. The Dosage Calculator will launch if a dose is weight-based
- Check that the **Actual Weight** and / or **Adjusted Weight** fields are accurate (you may enter values manually if necessary)
 - Check that the **Final Dose** is calculated correctly (you may override / round the dose manually if necessary)
 - Select **Apply Dose**



Dosage Calculator

aminophylline (additive)

Dose Values:

1) Target dose: 100 mg/kg

2) Calculated dose: 220 mg

3) Dose Adjustment: 220 mg 100 %

4) Final dose: 220 mg 10 mg/kg

5) Standard dose: mg mg/kg

6) Rounding rule: No rounding

7) Adjust Reason:

8) Route: IV Infusion

9) Rate: mL/hr

10) Volume: mL

Reference Data:

Date of birth: 10/01/2007 (13 Years)

Sex: M

Ethnicity: No

Height: cm

Source: Manually entered

Actual weight: 22 kg

Adjusted weight: 22 kg

Source: 8/10/2020 17:34 22.000 kg/Weight Measured

Adjustment: Actual (no adjustment)

Serum creatinine: umol/L

Source: Manually entered

CrCl (est.):

Algorithm: Schwartz - full term **Missing data**

Weight Used for CrCl:

Algorithm: Mosteller **Missing data**

Formulas... Standard Dose Reference

Apply Standard Dose **Apply Dose** Cancel



12. Magnesium

Magnesium is pre-defined to run 0.2 mmol/kg in 20mL sodium chloride 0.9% over 20 minutes

Magnesium Sulfate			
magnesium sulfate infusion 0.2 mmol/kg in Sodium Chloride 0.9% 20 mL BAG BY BAG - PAED		20 mL, IV Infusion, 1 bag(s) Max dose 8 mmol	
Base Solution	Bag Volume	Rate	Infuse Over
sodium chloride 0.9% infusion (BAG BY BAG)	20 mL	60 mL/hr	20 min(s)
Additive	Additive Dose	Normalized Rate	Delivers
magnesium sulfate (additive)	2 mmol		

13. Aminophylline has orders for both a loading dose and a subsequent infusion

Aminophylline Loading Dose 10mg/kg (max dose 500mg) Dose will <u>autocalculate</u> based on patient's weight Prescriber should <u>enter the bag volume (10 mL/kg)</u>		The Loading Dose is pre-defined to run 10 mg/kg over 1 hour, <u>with the prescriber required to enter the diluent volume as per instructions</u>
<input type="checkbox"/>	aminOPHYLLine infusion 10 mg/kg in Sodium Chloride 0.9% xx mL BAG BY BAG - PAED (LOADING DOSE)	mL, IV Infusion, <u>Infuse over: 1 hr(s), 1 bag(s)</u> , Indication: <u>LOADING Dose</u> Max dose 500 mg <u>Dilute to 1 mg/mL (10 mL/kg)</u>
Subsequent Infusion 25mg/kg Dose will <u>autocalculate</u> based on patient's weight Prescriber should <u>enter the rate of infusion</u> based on patient's age Age 1 - 9 years: 2.2 mL/hr (1.1 mg/kg/hr) Age > 9 years: 1.4 mL/hr (0.7 mg/kg/hr)		The Subsequent Infusion is pre-defined to run 25 mg/kg in 50mL sodium chloride 0.9%, <u>with the prescriber required to enter the rate as per instructions</u>
<input type="checkbox"/>	aminOPHYLLine infusion 25 mg/kg in Sodium Chloride 0.9% 50 mL BAG BY BAG - PAED (MAINTENANCE)	50 mL, IV Infusion, mL/hr, Duration: <u>1 bag(s)</u> , Indication: <u>SUBSEQUENT Infusion</u> <u>Enter the rate of infusion based on patient's age: Age 1 - 9 years: 2.2 mL/hr (1...</u>

14. Select the Loading Dose order > review Dosage Calculator > Apply Dose

15. The **Continuous Details** tab will then display



16. Refer to the instructions in the **Order Comments** and enter the diluent volume into the **Bag Volume** field. ***Note***: Entering the value in **mL/kg** will trigger the Dosage Calculator to launch again.

aminophylline (additive) 100 mg + sodium chloride 0.9% infusion (BAG BY BAG) mL, IV Infusion, Rate: 10 mL/hr, 1 bag(s). Indication: LOADING Dose, Max dose 500 mg Dilute to 1 mg/mL (10 mL/kg) Target Dose: amin

Subsequent Infusion 25mg/kg

Details for **aminophylline (additive) 100 mg + sodium chloride 0.9% infusion (BAG BY BAG)**

Details Continuous Details Order Comments Offset Details Diagnoses

Base Solution	Bag Volume	Rate	Infuse Over	
sodium chloride 0.9% infusion (BAG BY BAG)	10 mL/kg	10 mL/hr	hr(s)	
Additive	Additive Dose	Normalized Rate	Delivers	Occurrence
aminophylline (additive)	100 mg			EB

17. Review Dosage Calculator > Apply Dose

18. Once the Bag Volume has been entered, the Rate will auto-calculate based on the pre-defined Infuse Over time of 1 hour.

Base Solution	Bag Volume	Rate	Infuse Over
sodium chloride 0.9% infusion (BAG BY BAG)	100 mL	100 mL/hr	1 hr(s)
Additive	Additive Dose	Normalized Rate	Delivers
aminophylline (additive)	100 mg		

19. Select the Subsequent Infusion order > review Dosage Calculator > Apply Dose


20. The **Continuous Details** tab will then display

21. Refer to the instructions in the **Order Comments** and enter the appropriate Rate in **mL/hr** based on your patient's age

Order comments

Enter the rate of infusion based on patient's age:
Age 1 - 9 years: 2.2 mL/hr (1.1 mg/kg/hr)
Age > 9 years: 1.4 mL/hr (0.7 mg/kg/hr)

22. ***Note***: Magnesium and Aminophylline are both **bag by bag infusions** with a pre-defined duration of "1 bag(s)". This means when the bag is finished, nursing staff complete the order and it will become discontinued on the MAR / MAR Summary.

23. Click  to *Initiate* the new "Meds: Intravenous" phase



24. Select to review all orders and complete any mandatory details. Then and review the **MAR / MAR Summary**.

Continuous Infusions
aminophylline (additive) 100 mg sodium chloride 0.9% infusion (BAG BY BAG) 100 mL 100 mL, IV Infusion, Rate: 100 mL/hr, 1 bag(s), First dose 24/12/2020 16:46:00, Indication: LOADING Dose, Stop date 24/12/2020 17:45:00, Total volume (mL): 100 Max dose 500 mg Dilute to 1 mg/mL (10 mL/kg) Target Dose: aminophylline (additive) 10 mg/kg (Ac...
Administration Information
amiNOPHYLLine
Sodium Chloride 0.9%
aminophylline (additive) 250 mg sodium chloride 0.9% infusion (BAG BY BAG) 50 mL 50 mL, IV Infusion, Rate: 1.4 mL/hr, 1 bag(s), First dose 24/12/2020 16:46:00, Indication: SUBSEQUENT Infusion, Stop date 26/12/2020 04:27:00, Total volume (mL): 50 Enter the rate of infusion based on patient's age: Age 1 - 9 years: 2.2 mL/hr (1.1 mg/kg/hr) Age > 9...
Administration Information
amiNOPHYLLine
Sodium Chloride 0.9%
magnesium sulfate (additive) 2 mmol sodium chloride 0.9% infusion (BAG BY BAG) 20 mL 20 mL, IV Infusion, Rate: 60 mL/hr, 1 bag(s), First dose 24/12/2020 16:46:00, Stop date 24/12/2020 17:05:00, Total volume (mL): 20 Max dose 8 mmol Target Dose: magnesium sulfate (additive) 0.2 mmol/kg (Actual Dose: 0.2 mmol/k...
Administration Information
magnesium sulfate
Sodium Chloride 0.9%

“Meds: Preventative” phase

25. Select all required orders from the **Meds: Preventative** phase
26. Click to *Initiate* the new “Meds: Preventative” phase
27. Select to review all orders and complete any mandatory details. Then and review the **MAR / MAR Summary**.