

Ketamine Infusion Paediatric – Ordering

Medications Management

Quick reference guide

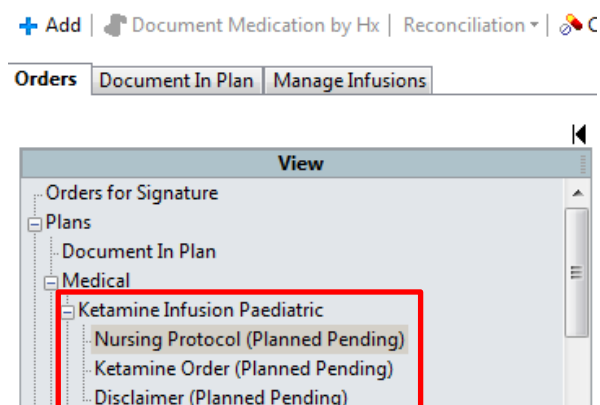
Ketamine infusions are ordered using the [Ketamine Infusion Paediatric PowerPlan](#). This PowerPlan will be used for all LCCH patients regardless of age or weight.

Orders will be completed in 100 mLs (**do not use the 50 mL order**).

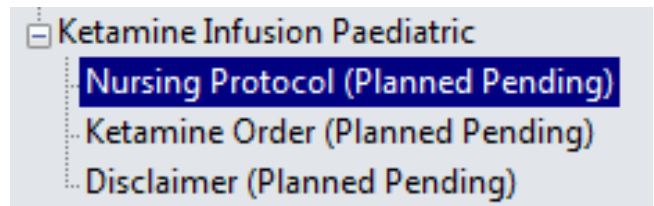
Medical officers will order both the Nursing Protocol and the Ketamine order when initiating a plan; a registered nurse can initiate the Nursing Protocol if missed.

Selecting Power Plan

1. Navigate to Orders from main menu, click + Add - the Add Order window displays.
2. Enter ketamine in the search field – select [Ketamine Infusion Paediatric](#) then close the window by clicking Done.
3. Locate [Ketamine Infusion Paediatric Power Plan](#) in the View window.



4. The plan will show 3 phases under the title.



5. Click nursing protocol:

If observations etc. are already ordered through another power plan e.g. PCA/NCA there is no need to initiate the nursing phase.

If the ketamine infusion is being used as a sole agent the nursing phase should be initiated – right click and select **Initiate**.

6. Select prescription phase – [Ketamine Order](#).
7. Select the ketamine order in 100 mL (tick box next to order).

	Component	Status
Ketamine Infusion Paediatric, Ketamine Order (Planned Pending)		
Continuous Infusions		
	Refer to local guidelines/protocols for therapeutic guidance	
	Ketamine infusion is not recommended for children less than 2 years under 2 years in exceptional circumstances and under the direction	
	Dose in 50 mL volume	
<input type="checkbox"/>	ketamine 5mg/kg in sodium chloride 0.9% IV 50 mL - Paediatric	
	Dose in 100 mL volume	
<input checked="" type="checkbox"/>	ketamine 10 mg/kg in sodium chloride 0.9% IV 100 mL - Paediatric	
Consults/Referrals		
	All consults must be accompanied by a phone call if required by cur	
<input checked="" type="checkbox"/>	Consult to Acute Pain Service	

8. Right click on the order information and select Modify to complete the order details. The dosage calculator will open.



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ketamine additive paediatric

Dose Values

1) Target dose: 10 mg/kg

2) Calculated dose: 120 mg

3) Dose Adjustment: 120 mg 100 %

4) Final dose: 120 mg

5) Standard dose: mg

6) Rounding rule: No rounding

7) Adjust Reason: If continuous infusion

8) Rate: mL/hr

9) Volume: mL

Reference Data

Date of birth: 01-Jan-1990 (118 Years)

Sex: FEMALE

Ethnicity: Unknown

Height: 80 cm

Actual weight: 12 kg

Adjusted weight: 12 kg

Seum creatinine (Cr) (uL): 400 umol/L

Body surface area: 0.52 m²

Dose Form: ketamine 100 mg/mL Solution, injectable
ketamine 100 mg/mL Solution, injectable (outlet pump)
ketamine 50 mg concentrate
SAC - ketamine 100 mg/mL Solution, injectable

Source: [05Apr-2018 1:23 PM: 80.00 cm Height/length measured...]

Source: [05Apr-2018 9:30 AM: 12.000 kg Weight measured...]

Source: [05Apr-2018 1:30 PM: 400.00 umol/L Creatinine...]

Algorithm: Cockcroft-Gault (Actual Weight)

Weight Used for CrCl: Monitor

Buttons: [Formulas...], [Standard Dose Reference], [Apply Standard Dose], [Apply Dose], [Cancel]

9. Check the dose complies with standard APS dosing guidelines and **Apply Dose**, the dose calculator will close.

Note: Standard APS dosing is 10 mg/kg in 100 mL (max 400 mg).

Note: You are able to make small adjustments in dose using the **Rounding Rule Tool**. The tool should be used rather than manually typing a dose to prevent typing errors.

Dose Values

1) Target dose: 10 mg/kg

2) Calculated dose: 122 mg

3) Dose Adjustment: 120 mg 98 %

4) Final dose: 120 mg 9.8361

5) Standard dose: mg

6) Rounding rule: **Nearest ten**

E.g. 122 mg would be rounded **down Nearest ten** to equal 120 mg

- The **Continuous Details** tab will open.
- Enter the starting rate of the infusion.

Details for ketamine additive paediatric 150 mg + sodium chloride 0.9% intravenous infusion

Details | Continuous Details | Order Comments | Offset Details | Diagnoses

Base Solution	Bag Volume	Rate	Infuse Over
sodium chloride 0.9% intravenous infusion (CONTINUOUS)	100 mL	1 mL/hr	100 hours(s)
Additive	Additive Dose	Normalized Rate	Delivers
ketamine additive paediatric	150 mg		Occurrence
			EB
Total Bag Volume: 100 mL			

Weight: 15 kg | Weight Type: Clinical Weight | Result dt/tm: 05-May-2018 12:48 AEST

12. Navigate to the **Details** tab.

Check the infusion fields, amend if required:

- Titration range (mL/hr)**
- Titrate instructions**

Titration range: 0-3

Titration range unit: mL

Titrate instructions: 0.5 mL incremental change

13. Review the remainder of the **PowerPlan** orders. Untick the **Consult to Acute Pain Service** if not required i.e. Infusions managed by the Paediatric Palliative Care or Oncology Services

14. Click **Initiate** and **Orders for Signature**.

15. Review the orders and confirm they are correct before signing. To modify an order, click **▲**. The scratch pad will open and the order can be modified as required. If the orders are correct select **Sign**.

▲ Details for ketamine additive paediatric 150 mg +

You have now completed your ketamine infusion order. If ordering in ORS communicate this to PACU as you normally would.



Modifying an Existing PowerPlan

For modifications to existing orders navigate to

Orders + Add

Open the **View** plane

Orders Document In Plan Manage Infusions

View

1. Select the plan *and ketamine order phase* to be modified

Ketamine Infusion Paediatric
 Nursing Protocol (Initiated)
Ketamine Order (Initiated)
 Disclaimer (Planned)

2. Right click over the details column of the order to be modified, select **Modify**.
3. Expand order from bottom of the screen.

Details for **ketamine additive paediatric**

- a. For change of infusion rate navigate to the **Continuous Details** tab and change the infusion rate

Details Continuous Details Order Comments Offset Details Diagnoses

Base Solution	Bag Volume	Rate
sodium chloride 0.9% intravenous infusion (CONTINUOUS)	100 mL	2 mL/hr
Additive	Additive Dose	Normalized Rate
ketamine additive paediatric	150 mg	
Total Bag Volume	100 mL	

- b. For change of infusion range or incremental change navigate to the **Details** tab.

Titration range:



Titrate instructions:

4. Click **Orders for Signature**.
5. Then **Sign** and refresh.

Documentation of the change to the pump program is to be documented by the Dr or RN who has changed the pump program in the MAR

6. Navigate to the MAR.
7. Open the administration window by clicking the Pending task box.

Continuous Infusions	Pending
ketamine additive paediatric 210 mg sodium chloride 0.9% intravenous infusion (CONTINUOUS) 100 mL Rate: 2 mL/hr, Total volume (mL): 100, 100 mL, Solution, injectable, IV continuous infusion, start: 11/04/18 13:49:00 AEST, NO BOLUS. No loading dose required, infuse over 50 hour(s), titration range: 0-3 mL, titration instructions: 1 mL incremental c... Minimum of 60 minutes between changes in rate. MAXIMUM ketam...	Last bag started: 11-Apr-2018 14:03 AEST
Administration Information	
ketamine	
Sodium Chloride 0.9% IV	

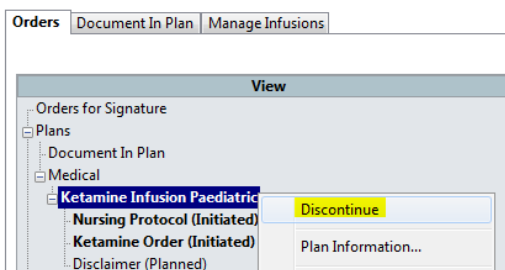
8. In the mini menu click  **Rate Change**
 9. Complete the **Rate** field and **witnessed by**
- *Rate (mL/hr):
10. **Apply** the change then save using the 

Ceasing a Ketamine Infusion Power Plan

1. Navigate to **Orders** + Add
2. Open the **View** plane.
3. Right click on the Power plan title **Ketamine Infusion Paediatric** and **Discontinue** the order. This will cease all active orders in the plan (medications, observations and cares).



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4. Click Orders for Signature.
5. Complete discontinue reason by clicking the blue circle and completing reason.

