



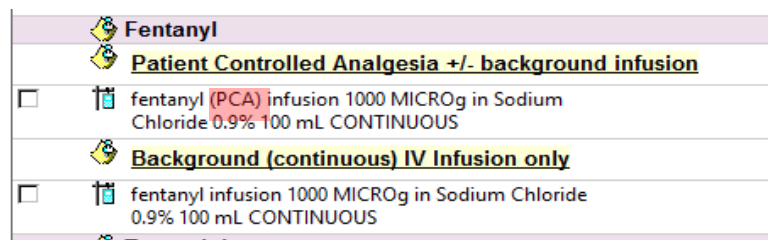
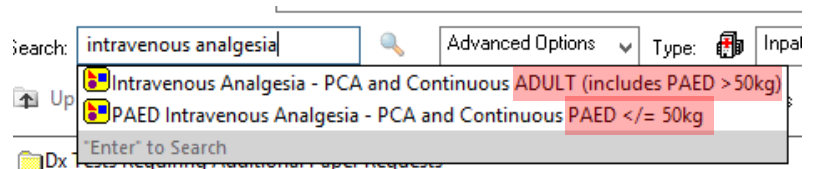
## EMR Quick Reference Guide

### Infusions - Ordering PCA & Continuous IV Analgesia (Adult and Paediatric) – APMS

- For use by Acute Pain Management Service (APMS)
- This QRG covers how to order:
  1. PCA and Continuous IV Analgesia in Adults and Paediatrics > 50kg
    - a. Patient Controlled Analgesia +/- Background Infusion
    - b. Background (Continuous) IV Infusion Only
  2. PCA and Continuous IV Analgesia in Paediatrics ≤ 50kg

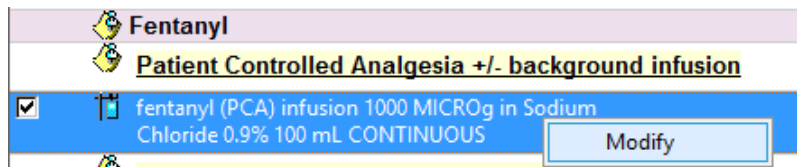
#### ORDERSETS

1. Navigate to **Orders** and click **+Add**
2. Search **"Intravenous Analgesia"** or **"PCA"**
3. Select the appropriate orderset
4. Both Adult and Paediatric ordersets contain pre-selected orders for a Pain Service Referral and a Communication Order for nursing staff.
5. Each medication has two orders to select from:
  - "PCA +/- background infusion"
  - "Background (continuous) infusion only"



#### ORDERING PCA +/- BACKGROUND INFUSION IN ADULTS AND PAEDS > 50kg

6. Select the required order, then right click and **Modify**



7. The **Details** tab will display.

**\*Note\***: the Lockout Interval has been pre-defined as 5 mins.

8. Complete the mandatory field for “Patient Administered Bolus (microgram)”.

9. Complete other fields as required, e.g.
- “Continuous Infusion Starting Rate (microgram/hr)”
  - “Continuous Infusion Range (microgram/hr)”
  - “Titration Instructions”

*These fields are not required if the patient is only on a PCA without a background infusion.*

10. Review the **Continuous Details** tab.

**\*Note\***: the Rate is predefined as PCA to allow for nursing staff to titrate the infusion as per policy / as per order comments without the doctor having to modify the order each time.

| Base Solution                     | Bag Volume    | Rate            |
|-----------------------------------|---------------|-----------------|
| Sodium Chloride 0.9% PCA (MICROg) | 100 mL        | PCA             |
| Additive                          | Additive Dose | Normalized Rate |
| fentanyl (additive)               | 1,000 MICROg  |                 |
| <b>Total Bag Volume</b>           | <b>100 mL</b> |                 |

11. Add **Order Comments** as required.

*These will be visible 'face up' on the MAR for nursing staff to see.*

12. Select **Orders For Signature** and review

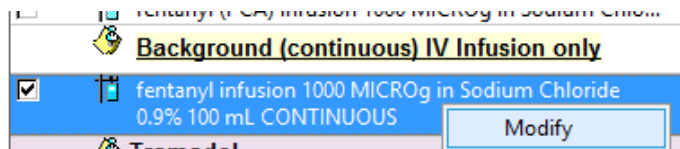
13. Complete mandatory fields for other orders, (e.g. Pain Service Referral)

14. **Sign** orders and navigate to **MAR / MAR Summary** to review before communicating with nursing staff

**ORDERING BACKGROUND (CONTINUOUS) IV INFUSION ONLY**

**IN ADULTS AND PAEDS > 50kg**

15. Select the required order, then right click and **Modify**



16. The **Continuous Details** tab will display.  
**\*Note\***: the Rate has been pre-defined as TITRATE to allow for nursing staff to titrate the infusion as per policy / as per order comments without the doctor having to modify the order each time.

▼ Details for **fentanyl (additive) 1,000 MICROg + So**

Details Continuous Details Order Comments Offset Detail

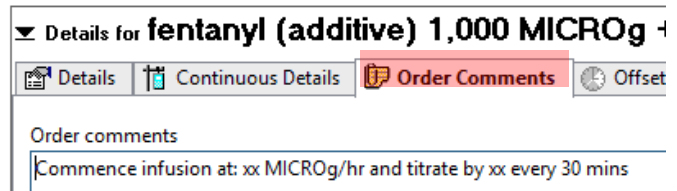
| Base Solution                        | Bag Volume    | Rate            |
|--------------------------------------|---------------|-----------------|
| Sodium Chloride 0.9% infusion 100 mL | 100 mL        | TITRATE         |
| Additive                             | Additive Dose | Normalized Rate |
| fentanyl (additive)                  | 1,000 MICROg  |                 |
| <b>Total Bag Volume</b>              | <b>100 mL</b> |                 |

17. Review the **Details** tab and complete fields as required, e.g.

- "Titration Range"
- "Titration Range Unit"
- "Titrate Instructions"

*These fields differ to those of the PCA order.*

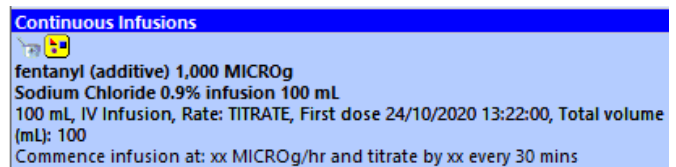
18. Add **Order Comments** as required.  
*These will be visible 'face up' on the MAR for nursing staff to see.*



19. Select **Orders For Signature** and review

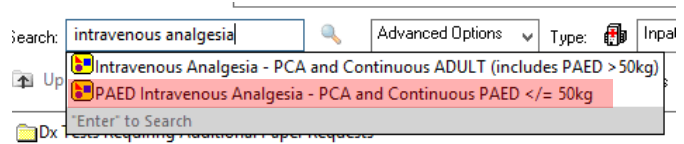
20. Complete mandatory fields for other orders, (e.g. Pain Service Referral)

21. **Sign** orders and navigate to **MAR / MAR Summary** to review before communicating with nursing staff



## ORDERING PCA AND CONTINUOUS IV ANALGESIA IN PAEDIATRICS ≤ 50kg

1. The instructions above can also be applied when using the PAED orderset, as the design is the same as that of the ADULT orderset. Minor differences are outlined below.



2. The Paed orderset has guidance on prescribing for each medication as per PPG:

**Fentanyl**  
 PCA bolus dose 2 mL (0.3 microgram/kg) with lock-out interval of 5 minutes. 1 hour maximum of 10 mL (i.e. 5 boluses per hour).  
 Continuous IV infusion rate 0 - 8 mL/hour (0 - 1.2 microgram/kg/hour).  
 Recommended bolus for pain or painful procedure 1 mL (0.15 microgram/kg) of infusion at intervals of no less than 5 minutes.

**Patient Controlled Analgesia +/- background infusion**

|   |  |
|---|--|
| fentanyl (PCA) infusion 15 MICROg/kg in Sodium Chloride 0.9% 100 mL CONTINUOUS - PAED (10-50kg) | Pt Adm Bolus (mL): 2, Lockout Interval (min): 5, IV Infusion, Routine, Rate: PCA<br>*Maximum 10 mL/hr (i.e. 5 bolus doses per hour)* |
| <b>Background (continuous) IV Infusion only</b>   |  |
| fentanyl infusion 15 MICROg/kg in Sodium Chloride 0.9% 100 mL CONTINUOUS - PAED (10-50kg)       | 100 mL, IV Infusion, Rate: TITRATE   |

3. When an order is selected, the EMR Dose Calculator will launch to calculate the dose based on the patient's documented weight.

*Use the Rounding rule if necessary, or manually override the Final dose.*

4. When ordering a PCA, the Patient Administered Bolus has been pre-defined as 2 mL, and the Lockout Interval has been pre-defined as 5 mins.

5. An Order Comment has been added to indicate maximum dosage.