



ieMR Advanced

Vancomycin ordering and therapeutic drug monitoring – paediatric

Medication Management

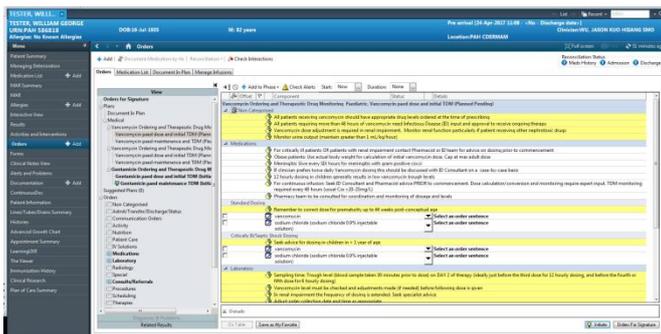
Quick reference guide

Check Allergy status is completed for the patient

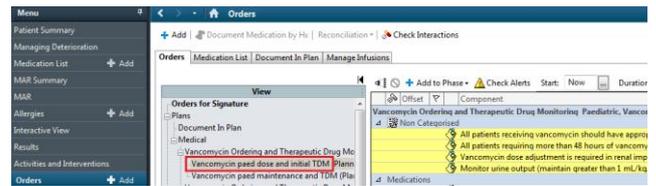
1. Click **Orders** from the **Menu**.
2. Click **+ Add**. Type **Vancomycin paediatric** in the search function.



3. Select **Vancomycin Ordering and Therapeutic Drug Monitoring Paediatric PowerPlan** (synonym to Vancomycin TDM Paediatric).
4. Click **Done**.
5. The following view will appear.



6. Select **Vancomycin paed dose and initial TDM Phase**.

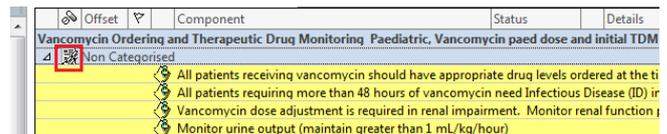


7. This order is divided into sections.

NON-CATEGORISED:

The **yellow** section provides important information on prescribing and monitoring requirements for vancomycin.

8. Click on the **evidence link** icon next to Non-categorised. This will open a link to: Paediatric Vancomycin Therapeutic Drug Monitoring.



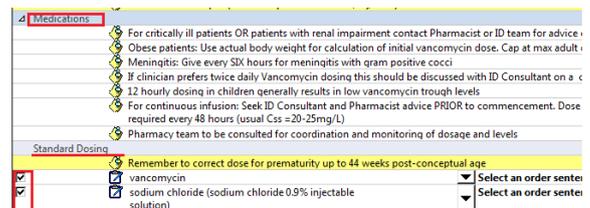
9. **MEDICATIONS:**

The yellow section provides more information on prescribing and monitoring requirements for vancomycin. The Medications section is divided into:

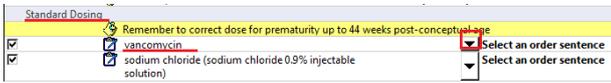
- a. Standard Dosing OR
- b. Critically Ill/Septic Shock Dosing.

It is important to use the correct dosing section for your patient.

10. In the correct section, tick the boxes next to the required order sentences.

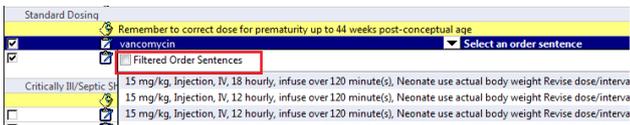


11. Use the drop down arrow next to **Select an order sentence** on the same line as vancomycin.



12. This will display order sentences that are filtered for age, weight and/or PMA based on patient details.

13. If no order sentences are displayed, untick **filtered order sentences** and this will display all available order sentences.



14. Select the most appropriate dose.

Note: For obese patients: use ACTUAL body weight. Cap the dose at the maximum adult dose.

Note: Weight based doses will trigger the dosage calculator. Refer to **Dosage calculator QRG** for further information.

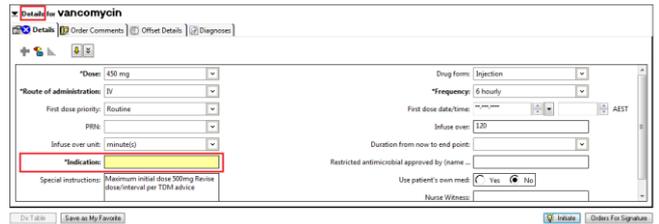
There is no capping for vancomycin in the dosage calculator, but order sentences have been designed to cap according to weight and indication. Please ensure the final dose is appropriate before continuing.

15. Once selected, details of the order will appear.

If not, double click on the order sentence or highlight the order sentence and click on the up arrow next to **Details** at the bottom of the page.



16. Complete all details (indication is a mandatory field).



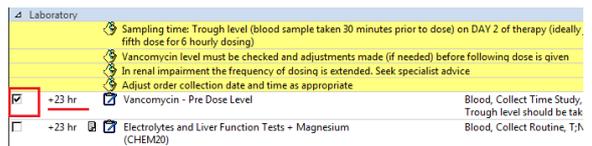
17. Lower **Details** by clicking the down arrow.

18. In the same section, use the drop down arrow next to **Select an order sentence** for sodium chloride.

19. Click on a suitable order sentence.

20. LABORATORY:

The **yellow** section provides important information on vancomycin monitoring and blood sampling time.



21. Vancomycin pre dose level +23 hr is selected by default when initially prescribing.

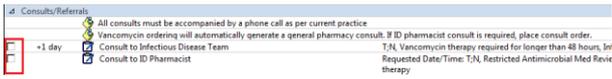
22. Select other blood tests (such as CHEM20) if required or not already ordered.

23. CONSULTS/REFERRALS:

Select the correct consult or referral by ticking the box on the left hand side.

Requirements are based on length of therapy and/or local institutional practice.





24. Once selected, the consult can be double clicked to add additional details.
25. Check all sections are correct before clicking **initiate**.
26. Click **orders for signature**.



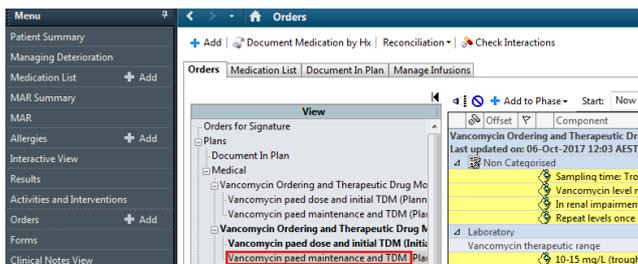
27. Check the orders are correct before clicking **sign**.

Order Name	Status	Start	Details
PAH CDERMAM FinP:1289570 Admit: 24-Apr-2017 11:08 AEST			
Medications			
vancomycin	Order	06-Oct-2017 13:00 AEST	450 mg, Injection, IV, 6 hourly, start: 06-Oct-2017 13:00 AEST, infuse over 120 minute(s). Indica Dilute to a maximum concentration of 5mg/ml. (if fluid restricted) 50mg/ml via central line on
sodium chloride (sodium chloride 0.9...	Order	06-Oct-2017 12:02 AEST	5 mL, Injection, IV, As indicated, start: 06-Oct-2017 12:02 AEST, PRN for other: see order comm blood sampling and medication administration
Laboratory			
Vancomycin - Pre Dose Level	Order	07-Oct-2017 11:02 AEST	Blood, Collect Time Study: 07-Oct-2017 11:02 AEST, Clinician collect Trough level should be taken 30 minutes BEFORE 4th vancomycin is due
consults/referrals			
Consult to Infectious Disease Team	Order	07-Oct-2017 12:02 AEST	07-Oct-2017 12:02 AEST, Vancomycin therapy required for longer than 48 hours, Infectious

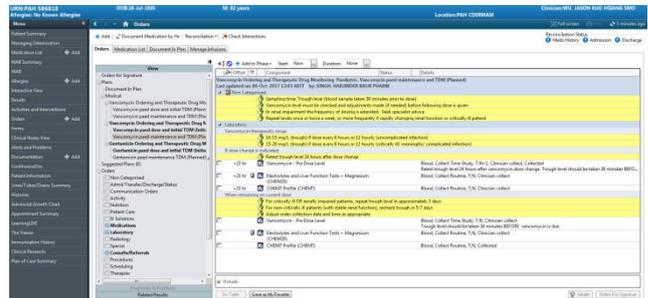
28. The Authorizing Signature box will show up.
Enter your username and password.
29. Click **ok** to finalise the order and **refresh**.
30. Orders now show as "ordered".

Once blood test results have been received, the dose needs to be reviewed.

1. Select **Vancomycin paed maintenance and TDM Phase**.



2. The following view will appear.



3. This order is divided into sections.

NON-CATEGORISED:

The **yellow** section provides important information on monitoring requirements for vancomycin.

4. **LABORATORY:**

Vancomycin therapeutic range:

The **yellow** section provides important information on TDM targets depending on indication for vancomycin.



Note: Contact your clinical pharmacist for further advice on TDM.

5. Depending on the trough level, determine which section to follow:
 - a. If dose change is indicated OR
 - b. When remaining on current dose

If dose change is indicated:

1. Select **Vancomycin paed dose and initial TDM Phase**.
2. Right click the existing vancomycin order.
3. Select **Cancel/Reorder**.

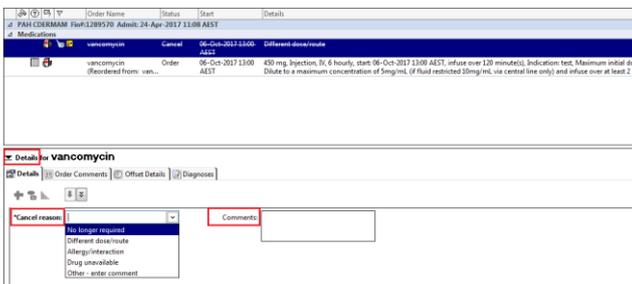




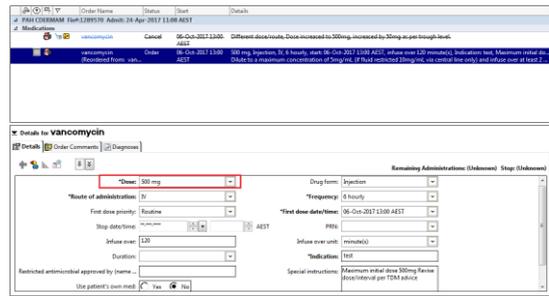
4. The vancomycin order will now have a line through it.
5. Click **Orders for signature**.
6. The view below will appear showing the cancelled order sentence and a new order sentence.

Order Name	Status	Start	Details
PAH CDERMAM Fin#1289570 Admit: 24-Apr-2017 11:08 AEST			
vancomycin	Cancelled	06-Oct-2017 13:00 AEST	
vancomycin	Order	06-Oct-2017 13:00 AEST	450 mg, Injection, IV, 6 hourly, start: 06: Dilute to a maximum concentration of

7. Highlight the cancelled order sentence and click on **Details**.



8. Select "Different dose/route" as the Cancel reason.
9. Enter specific details in the comment section on why the change has occurred (for example: dose increased to 500 mg per low trough level).
10. Double Click the new vancomycin order.
11. Enter the new dose.



12. Check all details are correct before clicking **sign**.
13. The Authorizing Signature box will appear.
14. Enter your username and password.
15. Click **ok**.
16. **Refresh** to update the page.
17. The cancelled order will appear in the medications section of **Vancomycin paed dose and initial TDM Phase**. It will no longer be ticked.

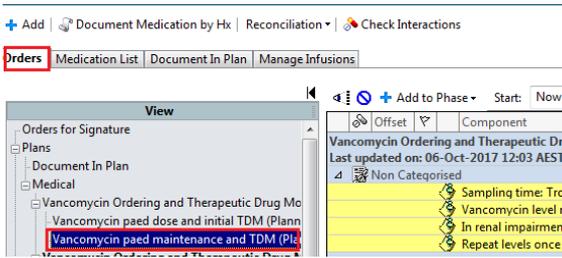


18. The new vancomycin order will NOT display here.
- To view the new order, click on **Medication List**.

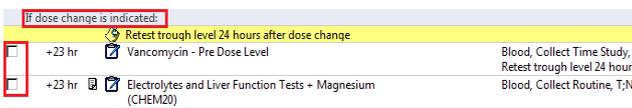


19. Since a dose change has occurred, another vancomycin trough level needs to be ordered. Select **Vancomycin paed maintenance TDM Phase**.



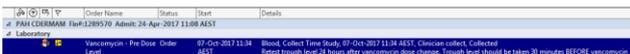


20. Under **if dose change is indicated** section, select post dose levels required.



Note: Retest trough level 24 hours after a vancomycin dose is changed.

21. Click **Initiate**.
22. Click **Orders for signature**.
23. Double click level ordered and fill in details.
24. Check details are correct, collection date and time may need to be changed.

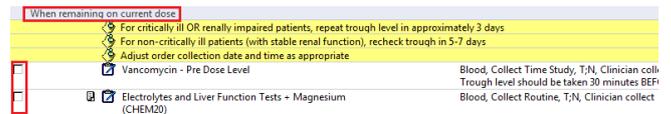


25. Click **sign**.
26. The Authorizing Signature box will show up.
Enter your username and password.
27. Click **ok** to finalise the order.

28. **Refresh**. Orders will now display as "ordered".

When remaining on current dose:

1. The **yellow** section provides important information on further monitoring requirements.
2. Select levels required.



Note: Monitoring requirements may change based on clinical judgement, if there is concern about renal function or patient deterioration.

3. Click **Initiate**.
4. Click **Orders for signature**.
5. Double click level ordered and fill in details.
6. Click **sign**.
7. The Authorizing Signature box will show up.
 - a. Enter your username and password.
8. Click **ok** to finalise the order.
9. **Refresh**. Orders will now display as "ordered".

