NHS Lothian OPAT Teicoplanin Adult Dosing Procedure



Patient name:
Date of birth:
СНІ:

Document your calculations in TRAK (\teicopat). Clinical pharmacist check is recommended.

This guidance is for OPAT and ward staff initiating three times a week dosing of teicoplanin. It is only approved for ward-use in patients who have been accepted by the OPAT service. Other regimens/target trough levels are used on other services (oncology, paediatrics, Hospital@Home).

STEPS	COMMENT							Calculated Value				
1: Calculate	Measure patient's height, weight & serum creatinine											
Creatinine	 Use the intranet calculator available <u>here</u>. 											
Clearance	 Other online calculators could be used as long as they use the Cockroft-Gault formula. 											
	As a la	 As a last resort, calculate manually (<u>See Appendix 2</u>). 										ml/min
2: Decide on	Review ideal	ideal body weight table <u>here</u> .										
using Ideal or Actual Body Weight	If patient's ACTUAL body weight is lower than the IDEAL body weight use their ACTUAL body weight.											
weigiit	If patient's ACTUAL body weight is higher than the IDEAL body weight use the IDEAL body weight.										kg Actual/IBW	
3: Prescribe	Prescribe Review <u>Table 1</u> for the days the loading doses should be given.											
TECIOPLANIN	Prescribe daily for first 3 days:											
LOADING doses			Creatinine			Ideal/Actual body weight						
			Clearance (ml/min)		40-59 kg 60-79 kg		9 kg	>80 kg				
	Teicoplanin loading doses		<60			1000mg 1200)mg	1400mg			
	uoses		≥	:60		12	200mg	1400)mg	1600mg		mg
4: Prescribe TECIOPLANIN	Prescribe maintenance dose based on Creatinine Clearance from table below on Monday, Wednesday & Friday:											
MAINTENANCE Doses	Creatinine Clearance (ml/min)	<25	25- 40	41- 54	55 74		75- 89	90- 104	105- 120	>120		
	Teicoplanin dose	400 mg	600 mg	800 mg	100 m		1200 mg	1400 mg	1600 mg	1800 mg		
Review <u>Table 1</u> for the day the first mai						aintenance dose should start.					mg	
5: Monitoring	 Take U+E and trough level with <u>first</u> maintenance dose. Then every Monday take U+E and Teicoplanin trough level Target trough level is 20-30 mg/ml. If renal function changes significantly during treatment, recalculate 											
	creatinine clearance and adjust maintenance doses accordingly.											

NHS Lothian OPAT Teicoplanin Adult Dosing Procedure



6: I	Dose
Ad	justment

Adjusting trough levels:

- If trough level is 15-20, increase maintenance dose by 200mg
- If trough level is 31-35, decrease maintenance dose by 200mg Consult with pharmacist if:
- Creatinine changes by +/- 10%
- Trough level <15 or >35 for all patients
- Patients on 800mg or less with a trough level <20

<u>Contraindication:</u> Hypersensitivity to teicoplanin or its excipients, including anaphylaxis.

<u>Caution:</u> Non-anaphylactic allergy to Vancomycin. A prior history of "red man syndrome" with vancomycin is **NOT** a contraindication to the use of teicoplanin

Table 1: Which day to start loading and maintenance doses.

Maintenance start date of Monday is preferred where possible.

Loading doses to be given on	First trough level & maintenance doses start day
Wed/Thurs/Fri	Monday
Fri/Sat/Sun	Wednesday
Sun/Mon/Tues	Friday

Appendix 1: Recommended text for documenting calculations on Trak

TEICOPLANIN DOSING CALCULATIONS

Height (cm):

Weight (kg):

Creatinine (mmol/L):

IDEAL or ACTUAL (specify) body weight used in calculations (kg):

Loading doses (give once daily for 3 days):

Loading days:

Maintenance dosage:

Day of first maintenance dose:

Appendix 2: Cockroft-Gault Calculation

CrCl (ml/min) = [(140 - Age) X weight* X 1.23(male) or 1.04(female)] / Serum creatinine**)

*Use actual or MAXIMUM body weight, whichever is the lower

** If Cr <60 µmol/L, use a value of 60.

Note: age in years, weight in kg, creatinine in micromoles/L.

References

Lamont et al. Journal of Antimicrobial Chemotherapy 2009; 64 : 181-187 Summary of Product Characteristics, Targocid 400mg