

NOTE: This is NOT a prescription chart. Please complete patient details below and file for reference.

GENTAMICIN GG&C DOSE CALCULATOR FOR ADULT PATIENTS			
Type in the data shown in blue and press <enter>		Recommended dose and dosage interval are shown in black below	
		GENTAMICIN GG&C DOSAGE REGIMEN	
Age (years)		Dose	
Height (cm)			
OR Height (feet)			
(inches)		Duration of infusion	
Weight (kg)			
Sex (m/f)		Interval	
Creatinine (mmol/L)			
<i>Height (cm)</i>			
<i>Ideal body weight (kg)</i>		REVIEW ANTIMICROBIAL THERAPY DAILY	
<i>Weight for creatinine clearance (kg)</i>		Seek advice from microbiology if gentamicin is required beyond 3 - 4 days	
<i>Creatinine CL (mL/min)</i>			
Patient Name:		CHI no:	Date printed: 05/08/2014 10:07

Gentamicin dose is based on actual body weight

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Originally devised by Alison Thomson, Pharmacy Dept, Western Infirmary, Glasgow, 0141 211 2022

Gentamicin Initial Dosage Guidelines					
Creat Cl (ml/min)	Actual body weight				
	40 - 49 kg	50 - 59 kg	60 - 69 kg	70 - 80 kg	> 80 kg
< 21	2.5 mg/kg (max 180 mg) then take a sample after 24 hours				
21 - 30	180 mg 48 hourly	200 mg 48 hourly	240 mg 48 hourly	240 mg 48 hourly	260 mg 48 hourly
31 - 40	200 mg 48 hourly	240 mg 48 hourly	280 mg 48 hourly	300 mg 48 hourly	320 mg 48 hourly
41 - 50	240 mg 48 hourly	280 mg 48 hourly	320 mg 48 hourly	360 mg 48 hourly	400 mg 48 hourly
51 - 60	200 mg 24 hourly	240 mg 24 hourly	280 mg 24 hourly	300 mg 24 hourly	320 mg 24 hourly
> 60	240 mg 24 hourly	280 mg 24 hourly	320 mg 24 hourly	360 mg 24 hourly	400 mg 24 hourly

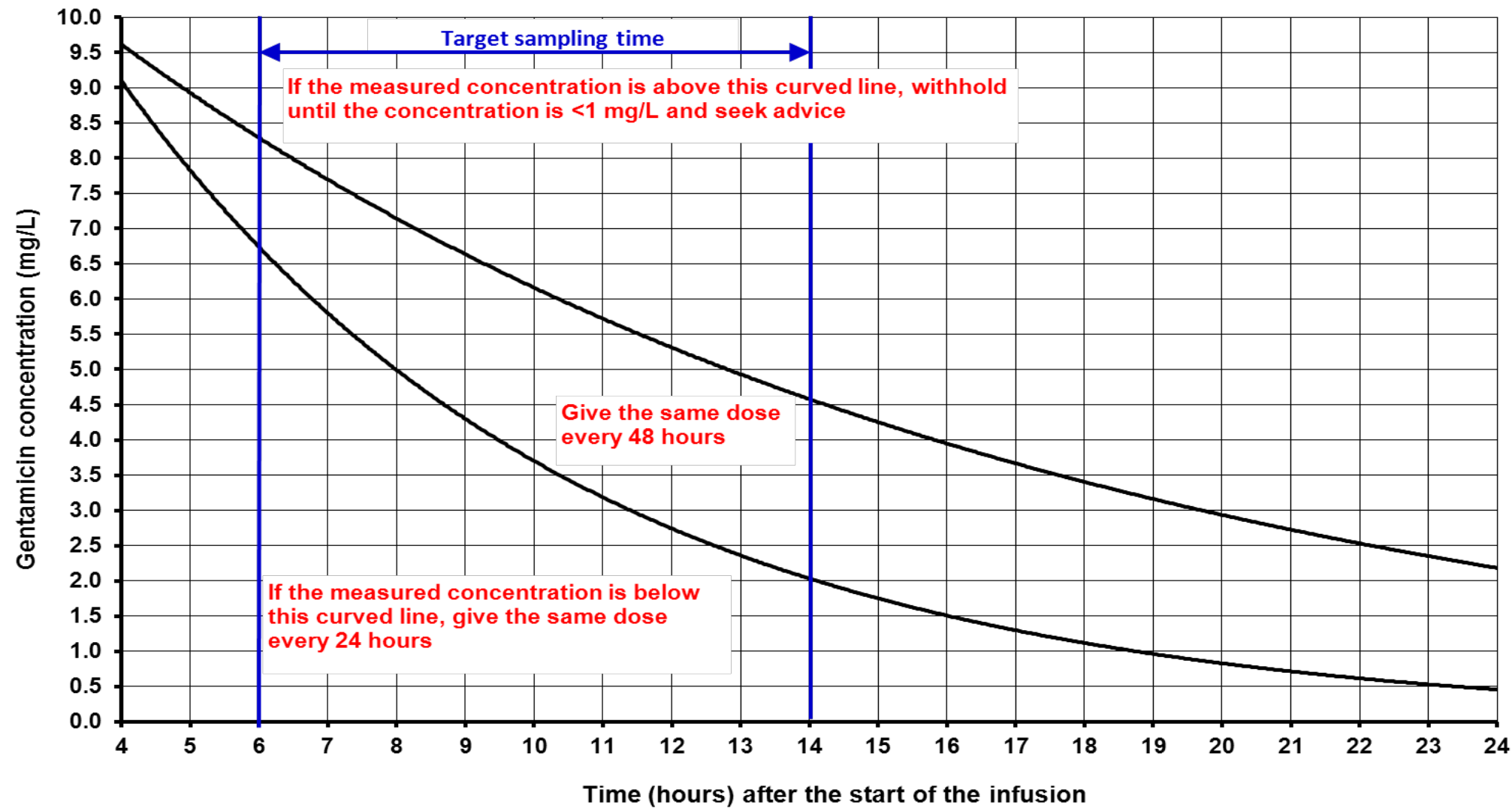
MONITORING OF GENTAMICIN CONCENTRATIONS if creatinine clearance is ≥ 21 mL/min

- Make sure all doses are documented with the date and time of administration.
- Take a blood sample 6 - 14 hours after the start of the first gentamicin infusion.
- Record the exact time of all gentamicin doses and samples on the recording chart.
- Plot the concentration measurement on the graph and reassess the dose / dosing interval as indicated.
- The plot will indicate one of 3 options: (1) continue present dosage regimen, (2) adjust dosage interval or (3) withhold and resample after 24 hours.
- Seek advice if you are unsure how to interpret the result.
- Monitor creatinine concentrations daily.
- Take a further sample 6-14 hours post dose at least every 2 days.
- If the concentration is unexpectedly high, or if renal function alters, daily sampling may be necessary.

MONITORING OF GENTAMICIN CONCENTRATIONS if creatinine clearance is < 21 mL/min

- Take a blood sample 24 hours after the start of the first gentamicin infusion
- Record the exact time of all gentamicin doses and samples on the recording chart
- If therapy is to continue, take additional blood samples at least every 24 hours and give a further dose once the measured concentration is < 1 mg/L.

DO NOT CONTINUE TREATMENT FOR MORE THAN 3 - 4 DAYS UNLESS RECOMMENDED BY AN ID PHYSICIAN OR MICROBIOLOGY



MONITORING OF GENTAMICIN CONCENTRATIONS

1. Take a blood sample 6 – 14 hours after the start of the first infusion.
2. Record the exact times of the dose and sample on the recording chart.
3. Plot the concentration measurement on the graph.
4. The plot will indicate one of 3 options: (1) Continue present dosage regimen, (2) adjust dosage interval or (3) withhold and resample after 24 hours.
5. Seek advice if you are unsure how to interpret the result.
6. Monitor creatinine concentrations daily.
7. Take a further sample 6-14 hours post dose, at least every 2 days.
8. If the concentration is unexpectedly high, or if renal function alters, daily sampling may be necessary.