



Gentamicin

Synonyms

Clinical Indication

For once daily Gentamicin dosing, levels should be taken between 18-24 hrs after the dose.

For multiple daily Gentamicin dosing (please refer to indications in the Trust antibiotic policy) levels should be taken as follows:

- a) Pre-dose immediately prior to the drug being given
- b) Post-dose 1 hour after dose

Part of Profile / See Also

Request Form

Combined Pathology manual Blood form or ICE request Please state date and time blood sample collected.

Availability / Frequency of Analysis

On request.

Turnaround Time

Performed on the same day within 2 hours of receipt in the laboratory.

Patient Preparation

Once daily Gentamicin is administered at any time of the day, as per clinical indications and subsequent doses will be based on levels.

Multi dose regimens: dosage should be 12 hourly. First assays should be undertaken on the third or fourth doses.

Sample Requirements

Specimen Type

Serum. Plasma is recommended for patients on haemodialysis.

Volume

2 ml.

Acceptable Containers



Yellow top (SST) tube



Paediatric orange top (lithium-heparin)



Paediatric green top (lithium-heparin)

For patients on haemodialysis, blood in a green top (lithium-heparin) tube is preferred:



Reference Range & Units

For once daily regimen:

Pre-dose - <1.0 mg/L (multiple dose regime)

For multi-dose regimen:

Pre-dose - <2.0 mg/L (multiple dose regime)

Post-dose - 5.0 - 10.0 mg/L (multiple dose regime)

Multi dose for the treatment of endocarditis patients:

Pre-dose - <1.0 mg/L (endocarditis patients)

Post-dose - 3.0 - 5.0 mg/L (endocarditis patients)

The suggested ranges are for guidance only, these may vary with disease process and the infecting organism, please refer to the appropriate trust protocol.

Interferences

Interpretation & Clinical

Decision Value (if applicable)

References

Beckman kit insert

Test code

GENT

Lab Handling

Analysed from primary tube and stored at 4°C.
Serum and plasma stable for 7 days at 2-8°C.