Lab Dept: Chemistry

Test Name: GENTAMICIN TROUGH, CONVENTIONAL

General Information

Lab Order Codes: GENT

Synonyms: Garamycin®

CPT Codes: 80170 – Gentamicin

Test Includes: Gentamicin concentration in ug/mL

Logistics

Test Indications: Useful in monitoring trough therapeutic dosage and is effective against

gram-negative bacteria. For conventional dosing schedule.

Lab Testing Sections: Chemistry – Performed on Mpls Campus

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: Within 2 hours of receipt at Minneapolis lab. Please note – additional time

required for transport from off site locations.

Special Instructions: Draw trough level just before the next dose.

Specimen

Specimen Type: Blood

Container: Green top (Li Heparin) tube preferred

Alternate tube: Red, marble or gold top, Green (NaHep), Lavender

(EDTA)

Draw Volume: 0.6 mL blood

Processed Volume: 0.2 mL serum/plasma

Collection: Routine blood collection. Mix tubes containing anticoagulant by gentle

inversion.

Special Processing: Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into plastic

sample cup. Store at refrigerated temperature.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen

Interpretive

Reference Range: Note: Therapeutic ranges for individual patients should be based on

dosing strategy.

Trough Levels

Therapeutic concentration:

<2 ug/mL generally indicates
elimination of the drug</pre>

Critical Values: >3 ug/mL

Limitations: Patients receiving sisomicin should not rely on this method.

Methodology: Particle Enhanced Turbidimetric Inhibition Immunoassay (Petinia)

References: Abbott Alinity c Gentamicin Reagent Kit Instructions for Use, Abbott

Diagnostics Division, Abbott Park, IL, USA. Revised September 2019

Abbott Alinity c TDM Multiconstituent Calibrator Package Insert, Abbott

Diagnostics Division, Abbott Park, IL, USA. Revised July 2018

Bio-Rad Liquicheck Immunoassay Plus Package Insert, Bio-Rad

Laboratories, Irvine, CA, USA

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc,

Hudson, OH, 5th Edition, 2001

Biorad Liquichek Unassayed Chemistry Control Product Insert, Bio-Rad

Laboratories, Irvine, CA 92618

Updates: 6/1/2023: New Test code.