SUBJECT: Therapeutic Drug Monitoring

The following therapeutic drug levels are performed at Northwest Hospital Center 24 hours a day, 7 days a week (unless otherwise, specified).

- Phenobarbital
- Carbamazepine
- Gentamicin
- Vancomycin
- Digoxin
- Phenytoin
- Theophylline
- Salicylate
- Acetaminophen
- Lithium
- Valproic Acid

Referred to Sinai:
- Tobramycin
- Amikacin
- Quinidine
- Methotrexate

Specimen Requirement: 4 ml of whole blood in a light green separator tube (PST)
Note: Lithium, Tobramycin, Amikacin, Salicylate, Quinidine and Methotrexate must be collected in a 10 ml red top tube.

Interpretation:
Therapeutic and toxic ranges of TDM’s are reported with patient results.
Peak and trough therapeutic ranges are reported for gentamicin and vancomycin.
Suggested draw times for gentamycin and vancomycin:
  - Peak: Collect 15-30 minutes following completion of an IV infusion or 45-75 minutes post IM administration.
  - Trough: Collect no more than 30 minutes before the next dose.
Interpretation of results of randomly collected TDM’s is provided by Pharmacy Consultants using a special “high peak/extended interval” nomogram.