







January 2016

Levetiracetam Testing

Levetiracetam is completely absorbed in the gut and the entire dose is cleared by the kidneys. Therefore, plasma levels are reliably predicted by the dose given and the patient's renal function. Routine therapeutic monitoring is not required. Plasma levels decrease by approximately 60 % during pregnancy, partly due to increased renal clearance.

Samples are referred to Canterbury Health Laboratories for testing; results are available after several days, therefore testing is not helpful when managing toxicity.

Levetiracetam levels may be helpful when suspecting suboptimal compliance or during pregnancy.

Levetiracetam level will not be performed unless a clear indication is noted on the request form. The following comment will be reported with declined requests:

"Routine therapeutic monitoring of Levetiracetam is not required. Results are available after several days; therefore testing is not helpful when managing toxicity. Testing may be helpful if suboptimal compliance is suspected or during pregnancy."

If testing is indicated, send an email with the relevant clinical information and the specimen number to: restrictedtest@Waikatodhb.health.nz with "25pax" in the subject box.

If you have any queries or concerns to this change in our service please do not hesitate to contact me

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