

Pharmacology

THERAPEUTIC DRUG MONITORING

Description

Therapeutic drug monitoring is used to optimise drug regimens for the individual patient by increasing efficacy and avoiding drug-related toxicity. Prospective surveys suggest 20% patients in clinic have sub-therapeutic plasma concentrations of PIs and NNRTIs, while the inter-individual variability in plasma concentrations is immense (≥ 100 -fold difference) despite standard dosing.

Each therapeutic drug monitoring report supplements the concentration level(s) with comments designed to assist the treating physician in interpreting the result. The algorithms are regularly reviewed and updated by an international panel of experts in pharmacology and HIV therapy.

Technology

Plasma drug concentrations are measured using Ultra Performance Liquid Chromatography and Tandem Mass Spectrometry (UPLCmsms). This involves separation of the drug molecules to allow for detection and production of a concentration level for each drug ready to report. The process is supported by a regulated quality management system.

Laboratory

Delphic Laboratories
(Liverpool) Ltd
Merseybio
Crown Street
Liverpool L69 7ZB
UK

Certification:
GCLP (01206)
CLIA (99D1060456)

Service

Turnaround time: 14 days*

* Working days

Sponsorship available from
pharmaceutical companies. Review
web-site for latest information:
<http://www.delphicdiagnostics.com>

Downloads

The following documents can be downloaded from the Delphic website:

Account Set Up Form
Sample Handling Instructions
Test Request Form
Report
Frequently Asked Questions

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