

Serum Toxicology Changes

Effective September 20, the MGH Core Laboratory will be discontinuing in-house HPLC toxicology testing, which is currently performed on the day shift only. HPLC is currently used for quantitative serum assays for:

- Benzodiazepines (listed here <http://epath.partners.org/test/MGH/10723>)
- Antidepressants, stimulants and other drugs (listed here <http://epath.partners.org/test/MGH/10724>)
- Lamotrigine (Lamictal)

We will instead be using a mass spectrometry assay for Lamotrigine and will send serum testing for many other prescription and OTC drugs to Mayo Medical Laboratories as described in greater detail below.

Immunoassays and other non-HPLC toxicology testing, including all 24/7 tests, will be **unaffected**. **Unaffected** tests include:

- Urine immunoassay testing for drugs of abuse and pain management
- Serum immunoassay testing for ethanol, tricyclics, acetaminophen and salicylates
- Most therapeutic drug testing
- Oral fluid toxicology
- Serum volatile alcohol testing (methanol, isopropanol, acetone and ethylene glycol are currently sent to Quest and will continue to be sent there).

Our need to outsource serum testing for benzodiazepines, antidepressants, stimulants and other drugs relates to several factors including a sharp reduction in demand for this testing coinciding with some of the previous updates made to provide 24/7 immunoassay offerings for ethanol, tricyclics, acetaminophen and salicylates.

As replacements for the discontinued tests, we will be offering the tests listed below available at or through Mayo Medical Laboratories. Because the tests listed below will no longer be available in-house, there will be an increase in turnaround time compared to the in-house HPLC assays.

Epic Orderable ID*	Test	Mayo Test URL
LAB4362	Amitriptyline & nortriptyline	http://www.mayomedicallaboratories.com/test-catalog/Overview/AMTRP
LAB39375	Citalopram	http://www.mayomedicallaboratories.com/test-catalog/Overview/CITAL
LAB40230	Clomipramine level	http://www.mayomedicallaboratories.com/test-catalog/Overview/CLOM
LAB40231	Clonazepam level	http://www.mayomedicallaboratories.com/test-catalog/Overview/CLZ
LAB3065	Clozapine level	http://www.mayomedicallaboratories.com/test-catalog/Overview/CZPS
LAB4321	Desipramine level	http://www.mayomedicallaboratories.com/test-catalog/Overview/IMIPR
LAB4399	Diazepam/nordiazepam	http://www.mayomedicallaboratories.com/test-catalog/Overview/DIA
LAB4069	Doxepin level	http://www.mayomedicallaboratories.com/test-catalog/Overview/DXPIN
LAB4149	Fluoxetine level	http://www.mayomedicallaboratories.com/test-catalog/Overview/FLUOX
LAB40519	Librium level	http://www.mayomedicallaboratories.com/test-catalog/overview/8610
LAB4125	Lidocaine level	http://www.mayomedicallaboratories.com/test-catalog/Overview/LIDO
LAB4379	Lorazepam, serum	http://www.mayomedicallaboratories.com/test-catalog/Overview/80459
LAB39540	Paroxetine	http://www.mayomedicallaboratories.com/test-catalog/Overview/PARO
LAB40693	Prescription/OTC drug screen	http://www.mayomedicallaboratories.com/test-catalog/Overview/8421
LAB40846	Trimipramine level	http://www.mayomedicallaboratories.com/test-catalog/Overview/TRMP
LAB39602	Venlafaxine	http://www.mayomedicallaboratories.com/test-catalog/Overview/VENLA
*The Epic order IDs shown here are meant to serve as a guide. However, please be sure to verify the order name in Epic during the ordering process. Please also see the MGH Laboratory Handbook for up to date test information.		

Please contact [Jason Baron, MD](#), [James Flood, PhD](#) or [Anand Dighe, MD, PhD](#) with any questions.