TOXICOLOGY SUBCOMMITTEE
OF THE SCIENTIFIC ADVISORY COMMITTEE

Monday, July 13, 2020 at 3:00 p.m.

Electronic Meeting

Draft Agenda

I. Call to Order – *Les Edinboro, Ph.D., Toxicology Subcommittee Chair*

II. Adoption of Agenda

III. Approval of Draft Minutes from May 7, 2019 Meeting

IV. Discussion of Validations

- Non-steroidal anti-inflammatory drugs (NSAIDs) by Liquid Chromatography Tandem Mass Spectrometry (LCMSMS) – The validation summary for the quantitative analysis of NSAIDs in biological specimens by LCMSMS. This validation includes the evaluation of two different working ranges.

- Gamma-hydroxybutyrate (GHB) by Liquid Chromatography Tandem Mass Spectrometry (LCMSMS) – The validation summary for the quantitative analysis of GHB, gamma-butyrolactone (GBL), and 1, 4-butanediol in biological specimens by LCMSMS. This validation includes the evaluation of blood and urine matrices for the calibration curve and quality control samples.

- Automated Liquid Handling System (Hamilton) Verification Plan – The plan to verify the performance of the Hamilton STAR automated liquid handling system based on the previously validated manual solid phase extraction and quantitation of opioids and cocaine in biological matrices by tandem mass spectrometry.

- Automated Liquid Handling System (Hamilton) Verification Summary – The summary of the verification of the Hamilton STAR automated liquid handling system based on the Automated Liquid Handling System (Hamilton) Verification Plan.

- Fentanyl Derivative Quantitation by Liquid Chromatography Tandem Mass Spectrometry (LCMSMS) – The validation plan for the solid phase extraction (SPE) and quantitation of fentanyl derivatives in biological matrices by LCMSMS.

- Fentanyl Derivatives Qualitative Analysis by Liquid Chromatography Tandem Mass Spectrometry (LCMSMS) – The validation plan for the solid phase extraction (SPE) and qualitative analysis of fentanyl derivatives in biological matrices by LCMSMS. The method was validated to adapt the current fentanyl derivatives qualitative analysis method to SPE for use on the Hamilton STAR system.

V. Discussion of Methods in Development

- Barbiturates Quantitation by Liquid Chromatography Tandem Mass Spectrometry (LCMSMS) – This method would replace the current methodology that requires 1.0 mL of biological matrices and analysis using gas chromatography mass spectrometry (GC-MS).

- Cannabinoids Extraction by Automated Liquid Handling System – This method is dependent upon grant-funding to explore a variety of extraction techniques and instrumental conditions to achieve the best methodology while simultaneously expanding cannabinoid testing capabilities.

- Miscellaneous Basic Drug Quantitation by Liquid Chromatography Tandem Mass Spectrometry (LCMSMS) – This method would replace current methodology using GC-MS. This method would combine several methods into one.

- Flualprazolam Quantitation by Liquid Chromatography Tandem Mass Spectrometry (LCMSMS) – This method would add flualprazolam to the currently validated benzodiazepine LCMSMS method.

VI. Public Comment, if any

VII. Adjourn

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