WS 18: How to Detect Drug Test Subversion Attempts in Urine, Hair and Oral Fluid

Audience Knowledge: Basic

Workshop Chairs

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Abstract

"Beating the test" has probably been attempted since the first days of drug testing itself, and identifying such attempts is critical to the validity of the testing process. It is mainly a concern when the individual tested has the opportunity to manipulate the specimen and/or to prepare for the test, such as in workplace, clinical, and court-mandated testing.

In this workshop we will cover different strategies for drug test subversion, how they work, and most importantly how to identify and prevent those attempts. Bringing together experts from forensic and clinical toxicology from Europe and the US, we will discuss current practices for urine specimen validity testing and recent research developments.

The speakers will cover adulteration strategies for urine and how to identify them using specimen validity testing. They will also cover how to identify synthetic urine products (a.k.a. fake urines) using LC-MS and various commercially available initial tests. We will then cover emerging topics with respect to the identification of hair adulteration and oral fluid specimen subversion.

The workshop is intended to bring all attendees up to speed on the latest technologies available to identify specimen tampering, regardless of their previous experience. Attendees will be able to understand limitation of current specimen validity testing when

interpreting results and have the tools to improve specimen validity testing in their own laboratories.

Speakers

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Workshop Agenda

Time	Topic	Speaker
08:00 AM - 08:45 AM	Urine Adulteration Using Household Chemicals and Internet-based Chemicals	Dasgupta
08:45 AM - 09:00 AM	Introduction to Automated Urine Specimen Validity Testing (SVT)	Fox
09:00 AM - 09:30 AM	Detection of Fake Urine by LC-MS Using Indirect and Direct Approaches	Wissenbach
09:30 AM - 10:00 AM	Initial Tests for Fake Urine – Dipsticks and Analyzer Reagents	Vikingsson
10:00 AM - 10:30 AM	Coffee Break	N/A
10:30 AM - 11:00 AM	Preventing Sample Tampering at the Collection Site	Wagner
11:00 AM - 11:45 AM	Unmasking Chemical Adulteration of Urine and Hair Specimens With LC-MS	Steuer
11:45 AM - 12:00 PM	Oral Fluid Drug Test Subversion	Vikingsson