

Performance Evaluation of Four On-Site Drug-Testing Devices for Detection of Drugs of Abuse in Urine

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Abstract

On-site drug tests are becoming increasingly more popular because of their easy test protocols and instantaneous results. This study evaluates the performance of four on-site drug testing devices that use competitive binding immunoassays to qualitatively determine the presence of drugs in urine: Triage[®] Panel for Drugs of Abuse plus TCA, QuickScreen[™] Pro-Multi Drug Screening Tests, Syva[®] Rapid Test d.a.u.[™] 5 and d.a.u.[™] 2, and Rapid Drug Screen[™]. All devices simultaneously determine the presence of the following drugs of abuse: amphetamine (AMP), benzoyllecgonine (BE), 11-nor-9-carboxy- Δ^9 -tetrahydrocannabinol (THCA), opiates (OPI), and phencyclidine (PCP). Triage and Rapid Drug Screen also simultaneously test for benzodiazepines (BNZ) and barbiturates (BRB), whereas QuickScreen and Rapid Test require separate devices for the BNZ and BRB analyses. Urine specimens (222) containing drug concentrations around or above cutoff values were screened by ONLINE or EMIT II immunoassays. Of these, 199 yielded positive gas chromatography-mass spectrometry results with at least 17 positive specimens in each drug class. Specimens with the target drugs added at 16.7% above and below the cutoff, 33.3% above and below the cutoff, and 66.7% above the cutoff were also used to evaluate the test devices. Sensitivity and specificity calculations demonstrated that Triage performed most predictably in the donor urine specimens and the drug-added specimens. In addition, it required the least amount of test volume and was the only device in which the appearance of a colored line indicated a positive result. Therefore, of the devices studied, Triage was the most dependable and reproducible on-site drug-screening device.

Introduction

The Department of Health and Human Services reports that 11% of the population over the age of 12 (~24 million people) voluntarily admitted to using illicit drugs in 1996, with 6.4% of the population having used an illicit drug within one month (1). Because of such prevalence, emergency rooms, rehabilitation facilities, probation officers, drug counselors, and employers

screen for illicit drug usage. Primarily, drug screening eliminates the specimens/individuals who tested negative for certain drugs such that the more complex and time-consuming confirmation process is not overburdened. However, in the emergency room, screening also serves to identify drugs so that a patient will receive the appropriate treatment. Drug rehabilitation programs and justice departments use on-site screening devices to immediately verify compliance, and employers randomly screen employees to curtail absenteeism and workplace accidents. Therefore, on-site urine drug-screening devices need to be reliable and rapid. They must also be cost effective and simple to use because testing may be performed outside the laboratory by individuals with little training. On-site drug-screening devices attempt to fulfill these requirements.

The purpose of this study was to evaluate the ability of four on-site drug-screening devices to detect the presence of amphetamine (AMP), benzoyllecgonine (BE), 11-nor-9-carboxy- Δ^9 -tetrahydrocannabinol (THCA), opiates (OPI), phencyclidine (PCP), benzodiazepines (BNZ), and barbiturates (BRB) in urine: Triage Panel for Drugs of Abuse plus TCA, QuickScreen Pro-Multi Drug Screening Tests, Syva Rapid Test d.a.u. 5 and d.a.u. 2, and Rapid Drug Screen. All devices simultaneously determined the presence of five drugs of abuse: AMP, BE, THCA, OPI, and PCP. Triage and Rapid Drug Screen also simultaneously detected the presence of BNZ and BRB. QuickScreen and Rapid Test required separate test cards for BNZs and BRBs. Triage can also determine the presence of tricyclic antidepressants (TCA). However, TCAs were not analyzed in this study (2). All screening results were confirmed by gas chromatography in tandem with mass spectrometry (GC-MS).

Materials and Methods

Materials

Screening assays: Triage Panel for Drugs of Abuse plus TCA from Biosite Diagnostics (San Diego, CA), QuickScreen Pro-Multi Drug Screening Tests from Phamatech (San Diego, CA), Syva Rapid Test d.a.u. 5 and d.a.u. 2 from Behring Diagnostics, Inc. (Cupertino, CA), and Rapid Drug Screen from American Bio Medica (San Diego, CA) were acquired. All devices utilized a competitive binding immunoassay to detect the presence of drugs in urine.

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