

3 Scientific Clinical Studies

Initial Validation of the PTSSA technology with a Sample of Family Courts Ordered Clients

Phil Sprague and James Vaccaro

True Positives.....8
True Negative.....29
False Negatives....4
False Positives.....3
ACCURACY 84%

Abstract: The present study is a validation of the PTSSA technology. 44 participants enrolled in a family court-ordered drug and alcohol treatment program participated in the study. All participants were administered 18 questions on the PTSSA touch screen technology and agreed to wear a drug detection patch to measure possible drug ingestion. The initial results revealed that the PTSSA touch screen technology was able to accurately identify those that had used drugs with 84% accuracy.

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Measuring the Veracity of Alcohol and Drug Users' Self-Report of Sobriety

Todd Pizitz

True Positives.....29
True Negative.....42
False Negatives....2
False Positives.....4
ACCURACY 92%

Abstract: Countless people are afflicted with alcohol and drug use disorders. Those involved in sobriety maintenance programs are often subjected to alcohol and drug urine tests to measure the veracity of their self-reported claims of sobriety. To assess deception among alcohol and drug users, the PTSSA touch screen technology and an alcohol and drug urine drug test was administered to 80 participants. The PTSSA, which is an interactive touchscreen that measures Significant Psychophysiological Responses (SPR) to sets of questions revealed an estimated 92% accuracy at classifying alcohol and drug user's self-report of sobriety. This study assists in adding to the burgeoning base of research indicating that psychophysiological measures are effective and show robust accuracy in assessing suspected deception in participant responses.

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Detecting Alcohol and Drug Use with the Touch of a Finger

Todd Pizitz

True Positives.....17
True Negative.....76
False Negatives....4
False Positives.....4
ACCURACY 92%

Abstract: The present study measured the accuracy and utility of the PTSSA touch screen technology as a viable alternative to urine drug testing. 101 participants enrolled in court-ordered drug and alcohol treatment participated in the current study. All participants were administered 18 questions on the PTSSA touch screen technology and then participated in a visually monitored drug and alcohol urine drug test. The results revealed 92% accuracy at classifying alcohol and drug user's self-report of sobriety by using this new technology. Clinical implications for the treatment of alcohol and drug users are examined through the implementation this technology.

After these studies were completed, adjustments were made to the algorithms that increased the accuracy to 97% accuracy.