



Behavioral Health is Essential To Health

Prevention Works





Treatment is Effective





Federal Workplace Drug Testing Program NLCP Drug Testing Results

Presented by

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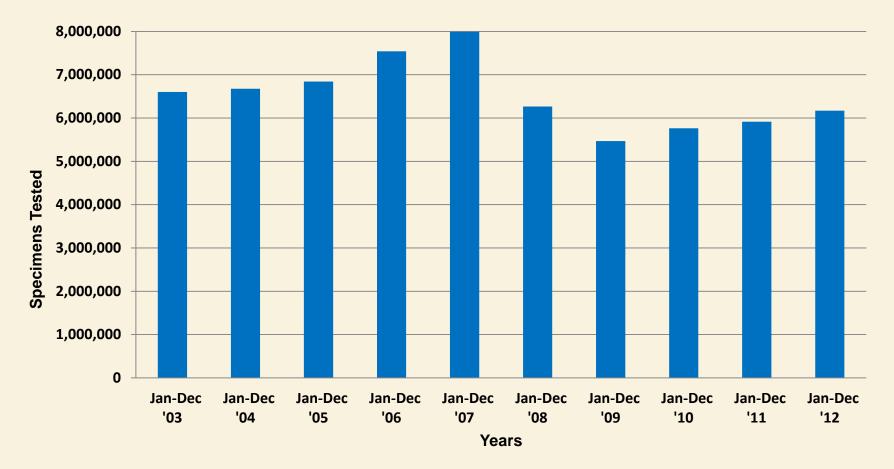
Division of Workplace Programs

Drug Testing Advisory Board (DTAB) Meeting February 11 and 12, 2013



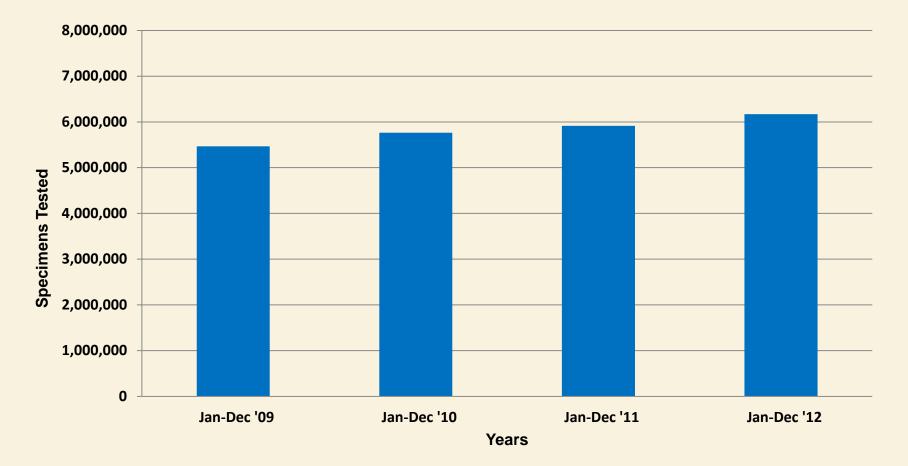


Regulated Specimens Tested 2003 through 2012



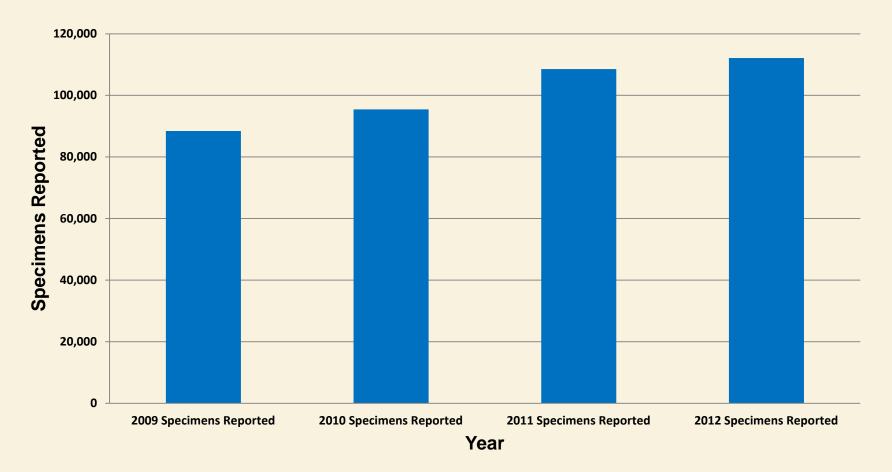


Regulated Specimens Tested 2009 through 2012



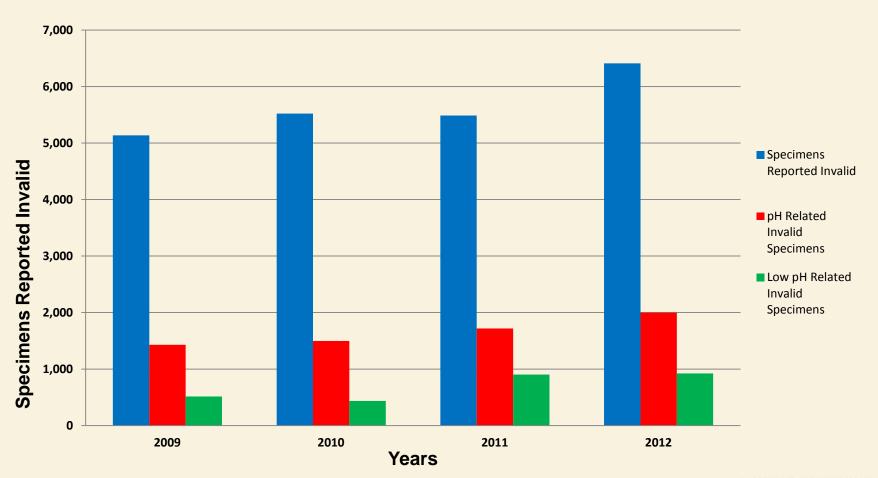


Positive, Adulterated, Invalid or Substituted 2009 through 2012



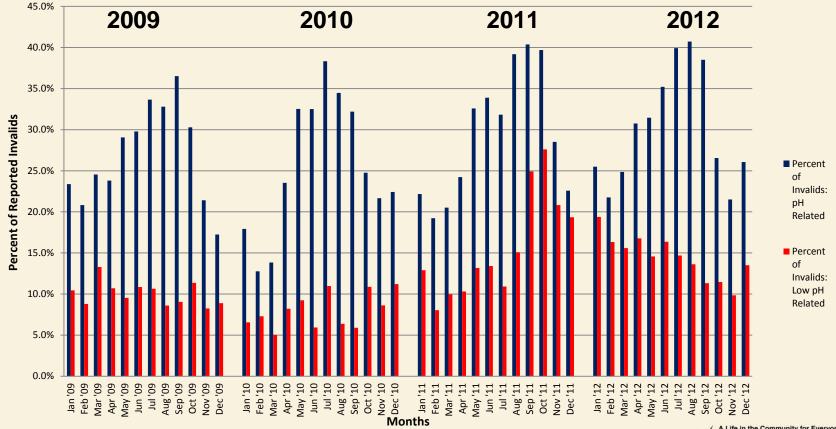


Specimens Reported Invalid for pH 2009 through 2012



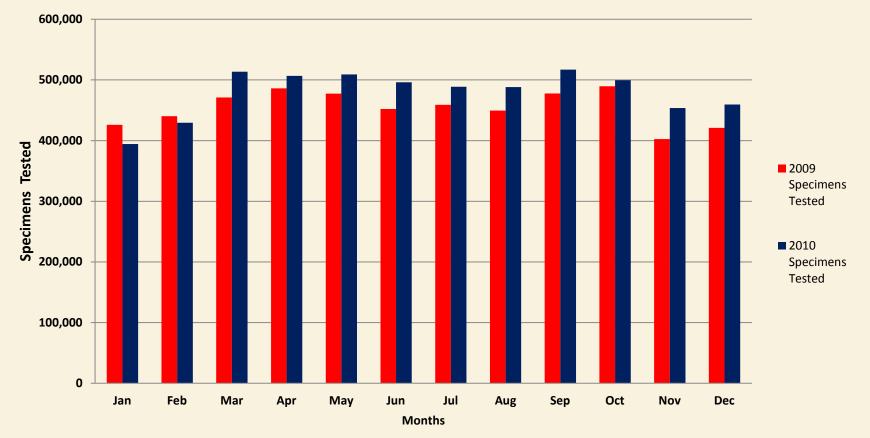


Specimens Reported Invalid for pH 2009 through 2012



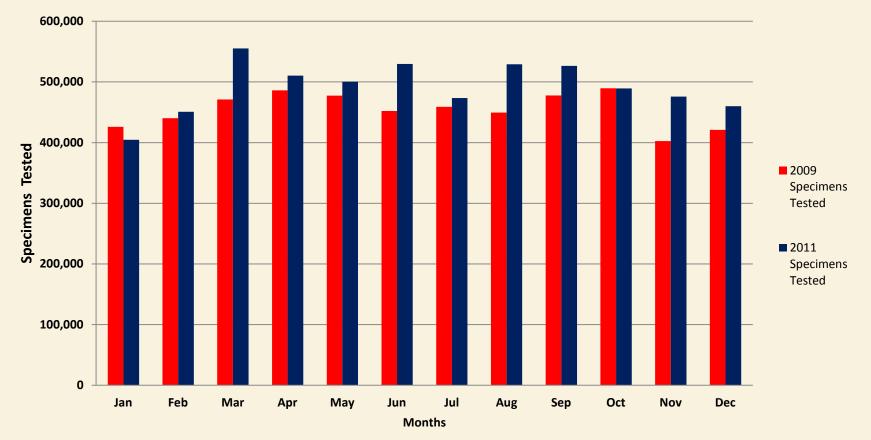


Regulated Specimens Tested 2009 vs. 2010



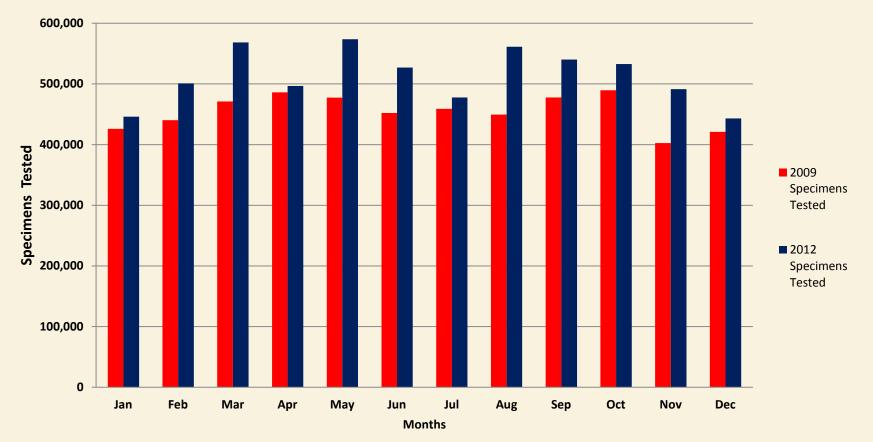


Regulated Specimens Tested 2009 vs. 2011



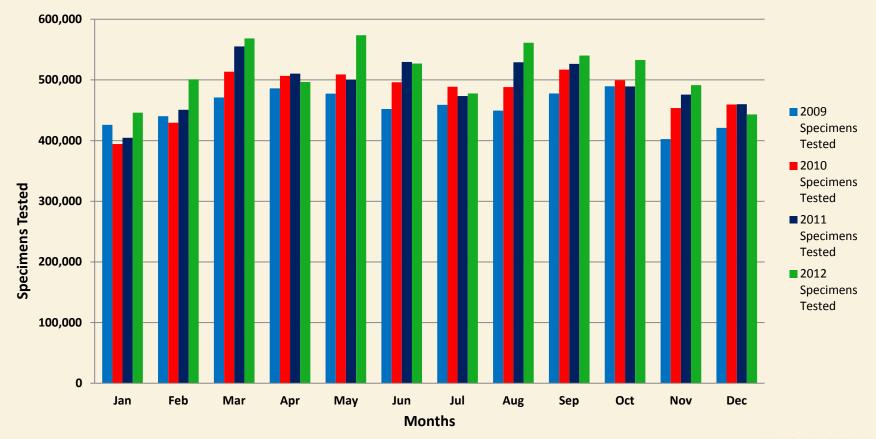


Regulated Specimens Tested 2009 vs. 2012



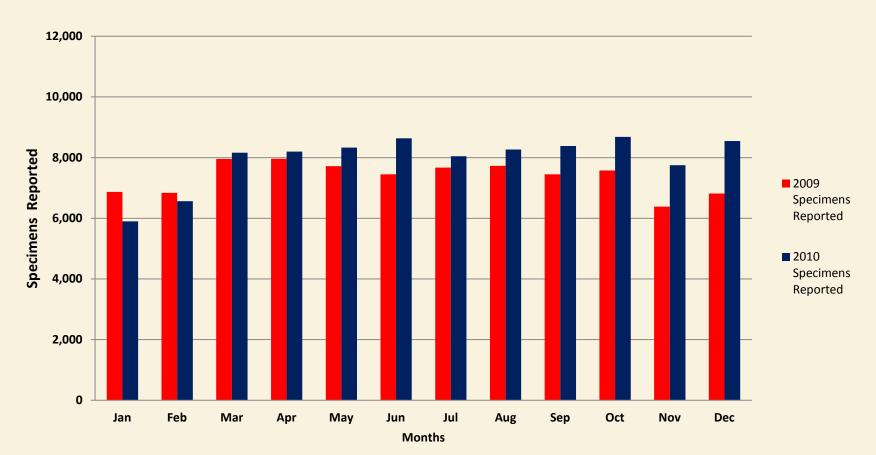
A Life in the Community for Everyone SAAMHASAA Substance Abuse and Mental Health Services Administration www.sambsa.gov 1-1977-53MH5A-7

Regulated Specimens Tested 2009 through 2012





Positive, Adulterated, Invalid or Substituted 2009 vs. 2010



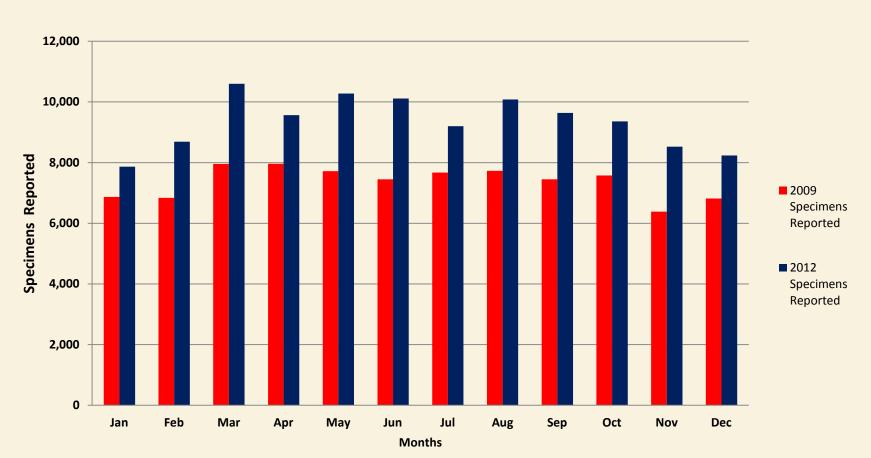


Positive, Adulterated, Invalid or Substituted 2009 vs. 2011

12,000 10,000 **Specimens Reported** 8,000 2009 Specimens 6,000 Reported 2011 4,000 Specimens Reported 2,000 0 Jul Aug Feb Apr May Jun Oct Nov Dec Jan Mar Sep Months



Positive, Adulterated, Invalid or Substituted 2009 vs. 2012



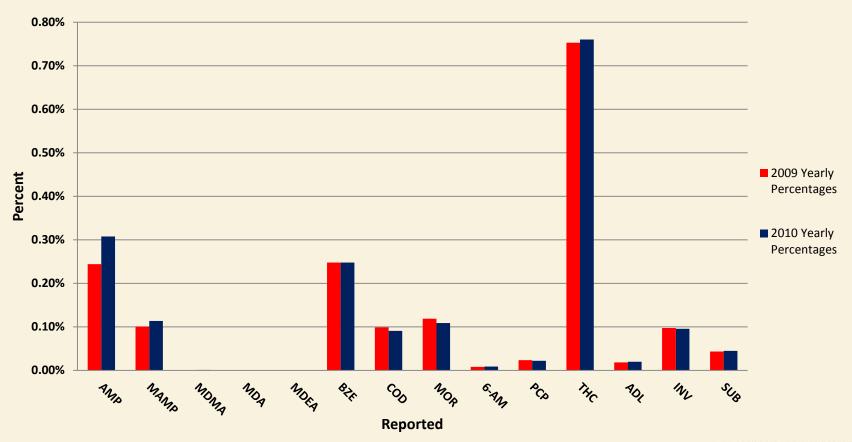


Positive, Adulterated, Invalid or Substituted 2009 through 2012

12,000 10,000 2009 8,000 Specimens Reported 2010 **Specimens Reported** Specimens 6,000 Reported 2011 Specimens 4,000 Reported 2012 Specimens Reported 2,000 0 Jun Jul Jan Feb Mar Apr May Aug Sep Oct Nov Dec Months

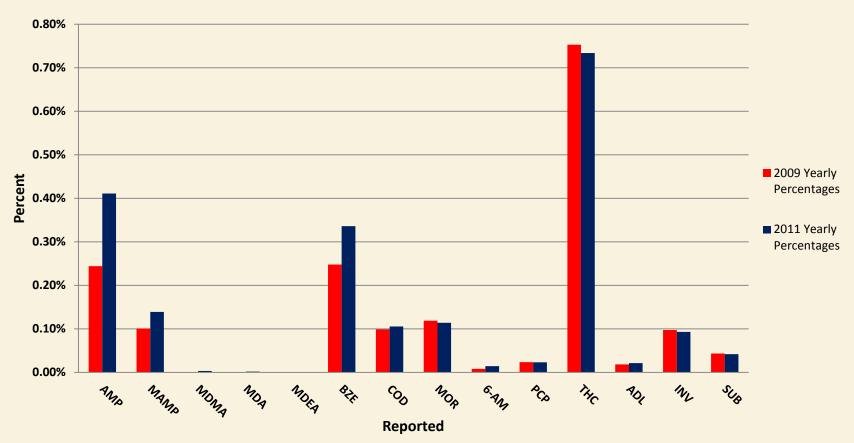


Specimens Reported as Drug Positive, Adulterated, Invalid or Substituted 2009 vs. 2010



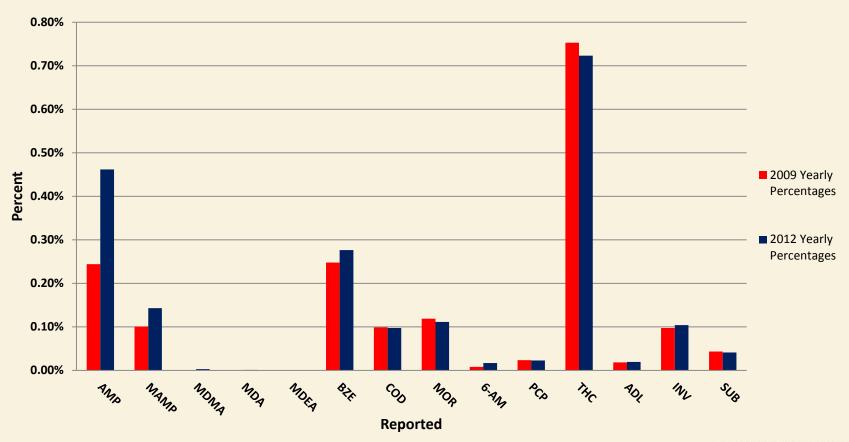


Specimens Reported as Drug Positive, Adulterated, Invalid or Substituted 2009 vs. 2011





Specimens Reported as Drug Positive, Adulterated, Invalid or Substituted 2009 vs. 2012



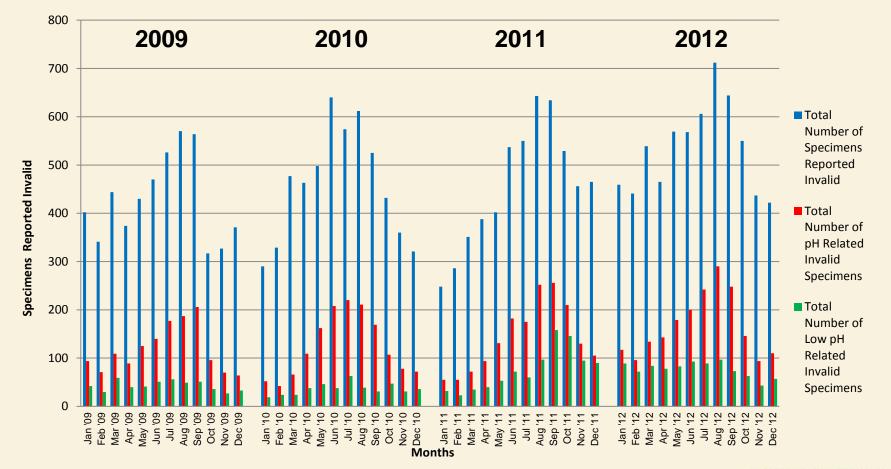


Specimens Reported as Drug Positive, Adulterated, Invalid or Substituted 2009 through 2012

0.80% 0.70% 2009 Yearly 0.60% Percentages 0.50% 2010 Yearly Percentages Percent 0.40% 2011 Yearly Percentages 0.30% 2012 Yearly Percentages 0.20% 0.10% 0.00% MOMA MDEA MOR BIK THE SUB AND MAMP COD MOR 6.AN ROL INL °Cs Reported



Specimens Reported Invalid for pH 2009 through 2012





Summary

- After the implementation of the revised Guidelines on 1 October 2010 there were:
 - A reduction in the number of specimens tested (5.4%)
 - An increase in the percent of specimens reported as Drug Positive



Summary (continued)

- The major drugs responsible for the increase in the percent of specimens reported positive were those whose cutoffs were lowered:
 - Cocaine
 - Amphetamine
 - Methamphetamine
- Smaller increases were observed in 6-AM and codeine



Synthetic Opiate Study

- The Study was in a Limited Population of Regulated Specimens
 - 12663 regulated specimens
 - 266 specimens were tested by DRI, KIMS, CEDIA and EMIT II reagents
 - All Positive result were confirmed



Synthetic Opiates in Regulated Specimens

- In a population of 12663 regulated specimens, 266 were found to exhibit an IA response equal to or greater than 300 ng/mL Morphine.
- De-identified aliquots of these 266 specimens were tested by DRI, KIMS, CEDIA and EMIT II reagents using a cutoff of 300 ng/mL Morphine.
- These aliquots were also confirmed by GC/MS for Codeine (COD), Morphine (MOR), Hydrocodone (HYC), Hydromorphone (HYM), Oxycodone(OXC) and Oxymorphone (OXM) were confirmed using a cutoff of 100ng/mL.



Initial Test Positives

Kit Manufactured	Initial Test Positives* 300 ng/mL Cutoff	Initial Test Positives**
DRI	254	2.0%
KIMS	162	1.3%
CEDIA	253	2.0%
EMIT II	238	1.9%

* Opiate IA results from reanalysis of the 266 specimens

** Percent based upon the total population of 12663 specimens



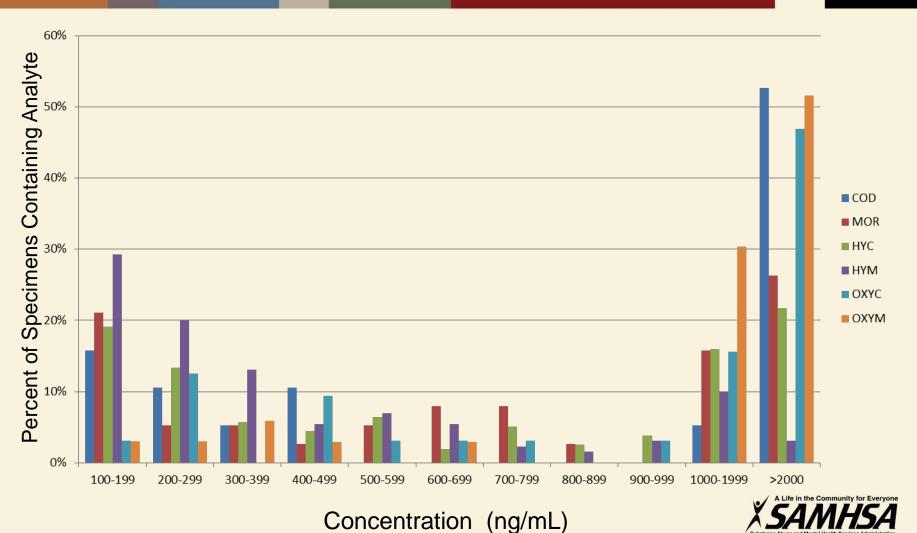
Opiate Confirmation Results

Analytes Found (>100 ng/mL)	Number Specimens
No Drug	35
Hydrocodone Only	40
Hydromorphone Only	13
Hydrocodone + Hydromorphone	116
Oxycodone and Oxymorphone	29 ^{1,2}
Codeine and/or Morphine	33 ¹

¹ Values do not include aliquots also containing hydrocodone and/ or hydromorphone at concentrations <100ng/mL. ² These specimens contained oxycodone and oxymorphone.



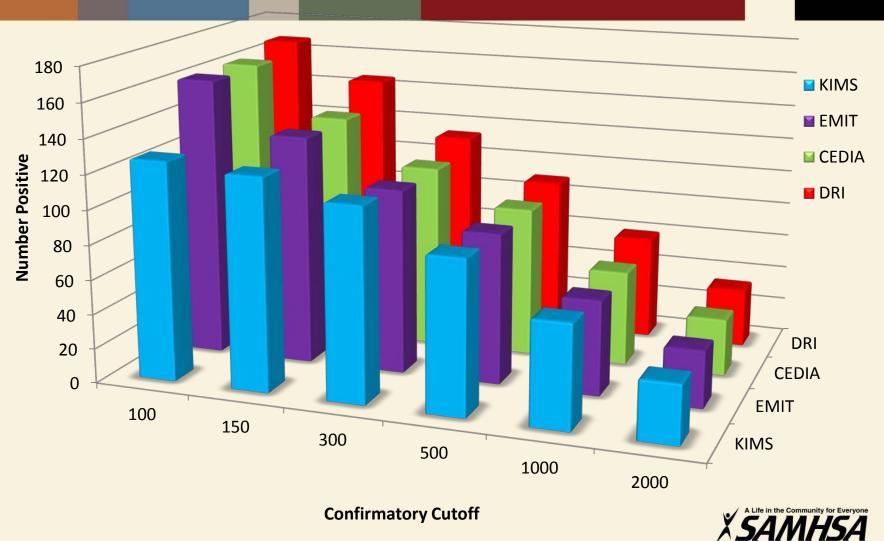
Study 1. Analyte Distribution in Identified Specimens



<u>27</u>

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Number of Opiate 300 IA Positive Specimens Confirmed Positive for HYC and/or HYM at Various Confirmatory IA Cutoffs



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Identification of Oxycodone and Oxymorphone in Regulated Specimens

- De-identified aliquots from 2892 regulated specimens having an IA response equal to or greater than 100 ng/mL Oxycodone were confirmed for Oxycodone and Oxymorphone.
- 14 specimens were initial test positive 12 confirmed positive for Oxycodone and/or Oxymorphone
- Positivity Rate = 0.42%
- Confirmation Rate = 85.7%



Summary

- Yes individuals in safety sensitive positions are using the semi synthetic opiates: hydrocodone, hydromorphone, oxycodone and oxymorphone.
- The implications of this use, legally, medically or safety related can only be implied until testing for these compounds begins and results are verified by an MRO.

