



Drug Testing Trends

Presented by:
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Director of Science and Technology

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Today's session

Drug Testing Trends presented by R. H. Barry Sample, Ph.D.

- About the Quest Diagnostics Drug Testing Index™ (DTI)
- Key findings
- Trends and insights from DTI data
- Analysis by drug category
- Summary
- Questions



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Quest Diagnostics Drug Testing Index™

National analysis of workplace drug testing data from our forensic toxicology labs

Routine urine specimens submitted for workplace drugs of abuse testing

- Workplace
- Rehabilitation and criminal justice excluded
- Point of collection (POCT) confirmations excluded (excludes high positivity)

Laboratory positive data (prior to MRO review)

- Does not indicate whether there is an "alternative medical explanation"
- Includes employer/Medical Review Officer (MRO) blinds

Two major groups

- Federally-Mandated, Safety-Sensitive Workforce
- General U.S. Workforce




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National Survey of Drug Use and Health (NSDUH)

National analysis of workplace drug testing data from our forensic toxicology labs

- Annual survey of the civilian, non-institutionalized population of the U.S. aged 12 years old or older
- Presents national estimates of rates of use, numbers of users, and other measures related to illicit drugs, alcohol and tobacco products
- Self-reported use
- Approximately 67,500 persons are interviewed in NSDUH annually






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Common matrices in drugs of abuse testing


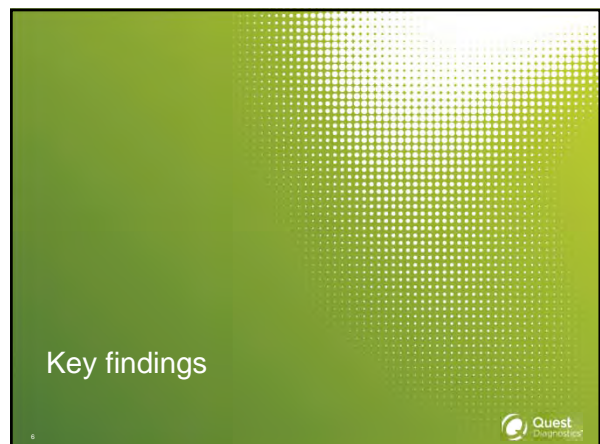
Detection windows vary by drug test type

Urine drug testing	Oral fluid drug testing	Hair drug testing
		
Detects recent use (previous 24-72 hours)	Detects recent use (previous 24-48 hours)	Detects a pattern of repetitive use (up to 90 days, based on testing proximal 1.5" head hair)

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Key findings




Key findings

Exclusive: Quest Diagnostics Drug Testing Index full year 2014 report

- Percentage of American workers testing positive for illicit drugs increased for the second consecutive year in the general U.S. workforce
- Marijuana positivity increased nationally for the second consecutive year
 - Marijuana positivity increased at about the same rate in the two states with recreational marijuana-use laws as the rest of the U.S. in 2014
- Increases in workplace positivity for cocaine in the general U.S. workforce over the past two years, reversing a prolonged period of decline
- Amphetamines use, specifically the use of methamphetamine, showed an increase across both urine and oral fluid drug tests
- Positivity doubled for 6-AM, a specific marker for heroin, in the general U.S. workforce between 2011 and 2014

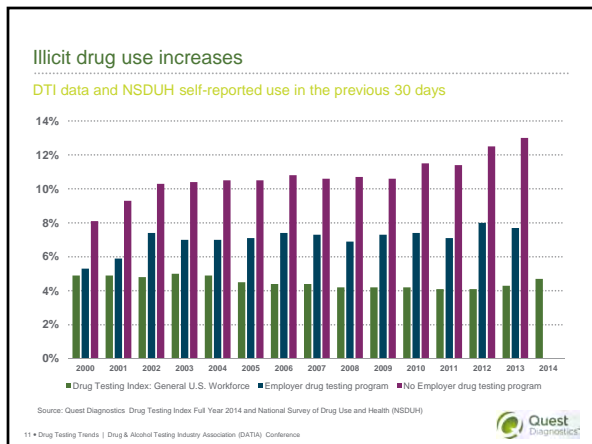
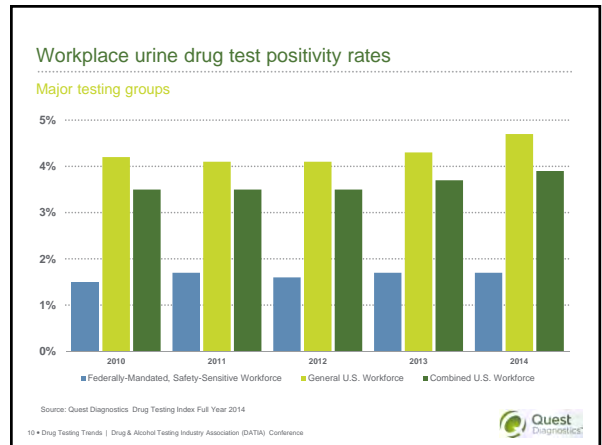
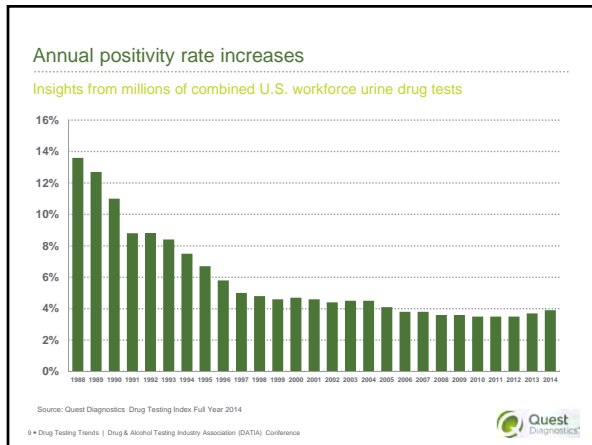


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Trends and insights from DTI data

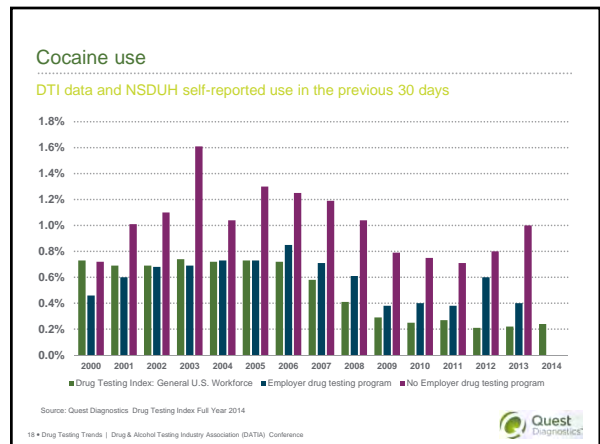
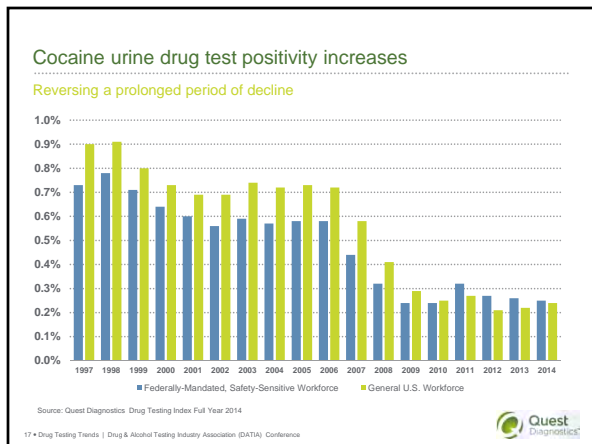
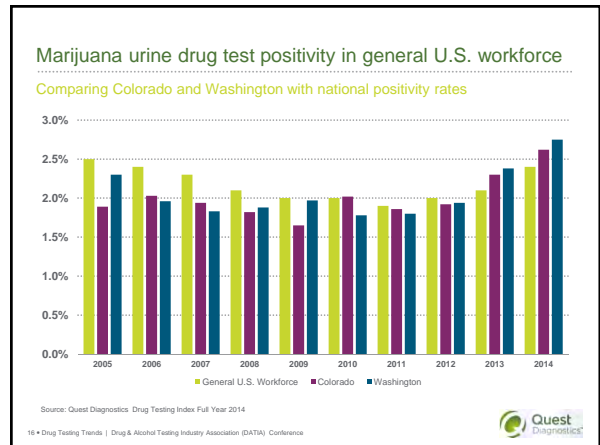
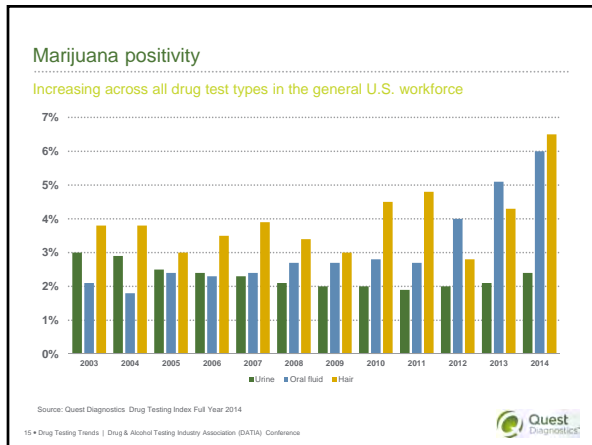
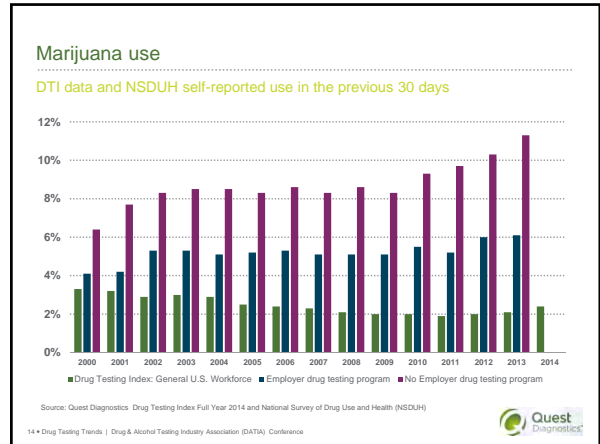
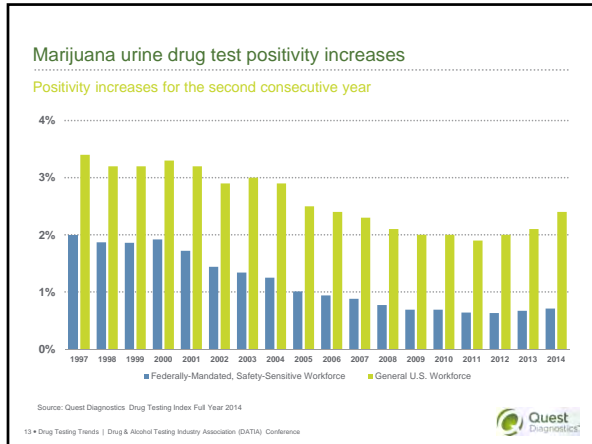
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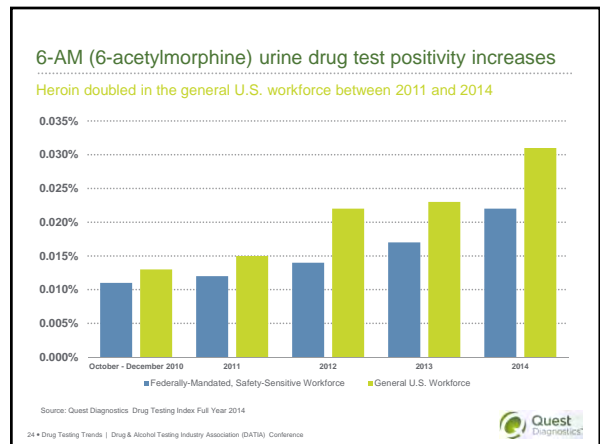
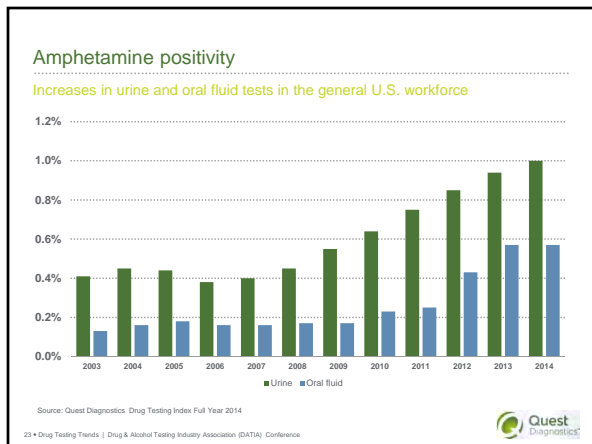
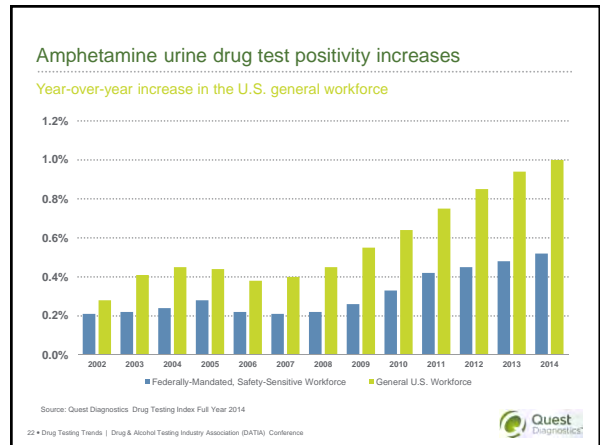
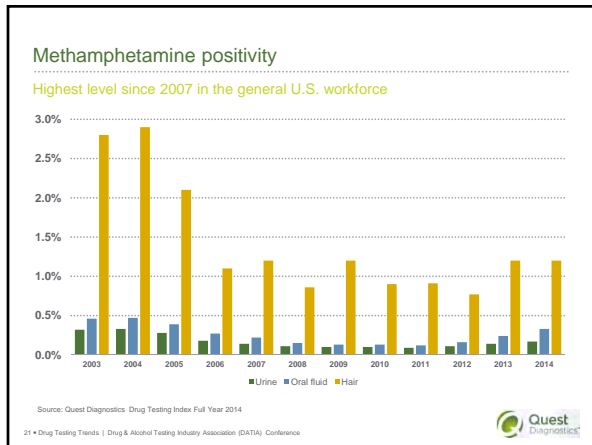
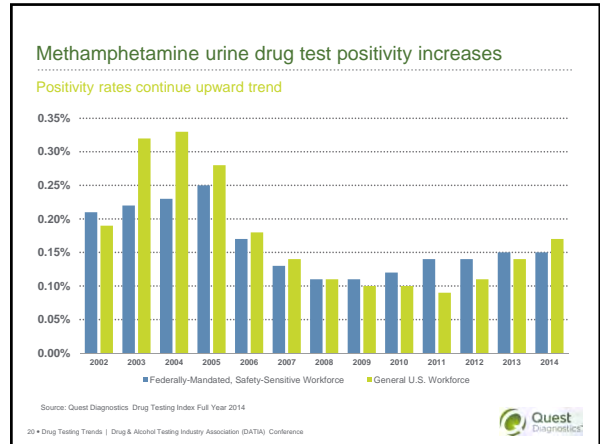
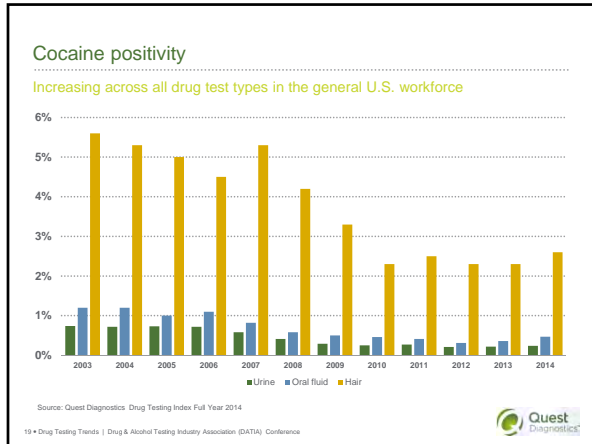



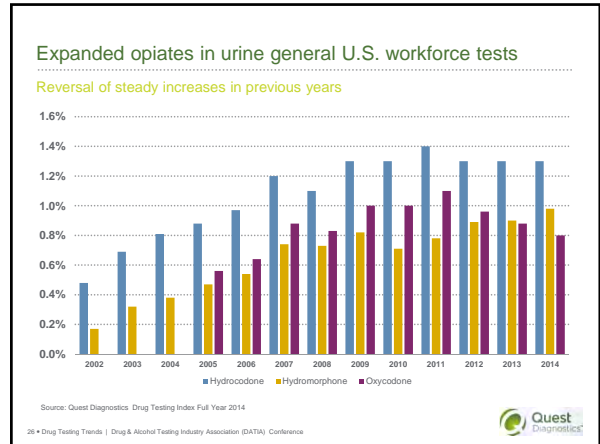
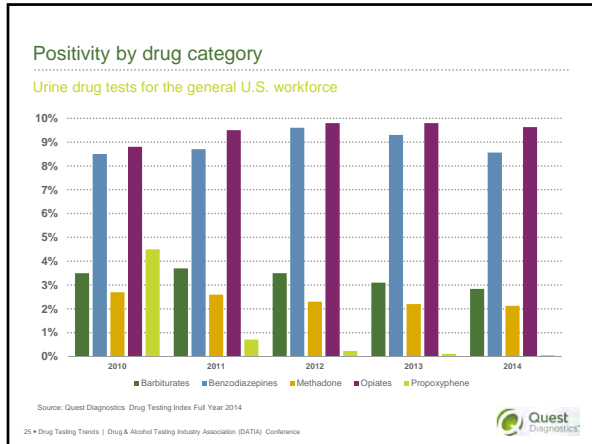
Analysis by drug category

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Summary

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Summary

Drug Testing Trends presented by R. H. Barry Sample, Ph.D.

- American workers are increasingly testing positive for illicit drug use across almost all workforce categories and drug test specimen types
 - Marijuana increased for the second consecutive year in the general U.S. workforce
 - Marijuana positivity increased at about the same rate in Colorado and Washington as the rest of the U.S. in 2014
 - Marijuana positivity in oral fluid is twice that in urine and comparable to that in hair
- Steady increases in workplace positivity for cocaine in the general U.S. workforce over the past two years, reversing a prolonged period of decline
- Cocaine positivity is up across all specimen types in 2014
- Methamphetamine and heroin positivity rates continue upward trend
- Increases in prescription opiate positivity has stalled
 - Oxycodone positivity is down dramatically from 2011 peak
 - Hydrocodone positivity is flat and lower than 2011 peak
 - Hydromorphone positivity continues to climb slowly
- Increases in illicit drug positivity should cause employers and policymakers to take notice about the risks those drugs continue to represent for safety and compliance

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Drug Testing Trends

R. H. Barry Sample, Ph.D., Director of Science and Technology

Q & A

Visit www.QuestDiagnostics.com/DTI or stop by our booth for the latest report.

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Thank you

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