

Arizona Opioid Prescribing Summit

The Problem of Misuse and Abuse of Rx Medications in Arizona and a Multi-Systems Approach to Addressing the Problem



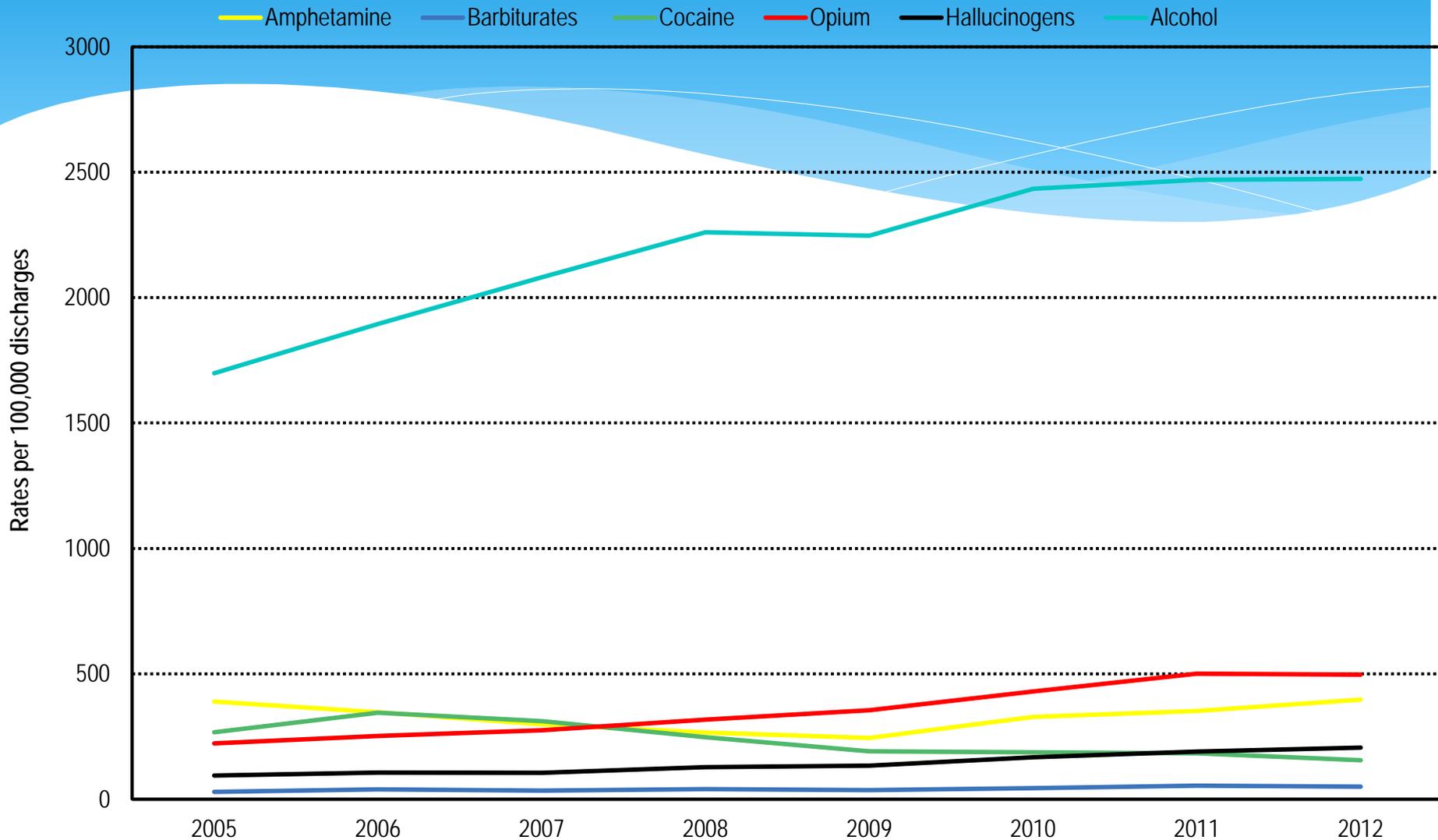
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Arizona Criminal Justice Commission

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What do we know about the Misuse and Abuse of Rx Drugs in Arizona?

- ❖ 585 million Class II-IV pills were prescribed in Arizona in 2012
- ❖ Pain Relievers had the highest percentage of scripts and pills, accounting for 58.5 percent of all CS II-IV pills prescribed
- ❖ Hydrocodone and Oxycodone accounted for 82.4 percent of all pain relievers prescribed in Arizona
- ❖ 7.9 percent of youth reported past 30-day Rx drug misuse in 2012
- ❖ Arizona has the 6th highest rate of Rx drug misuse among individuals 12+ years of age in 2012

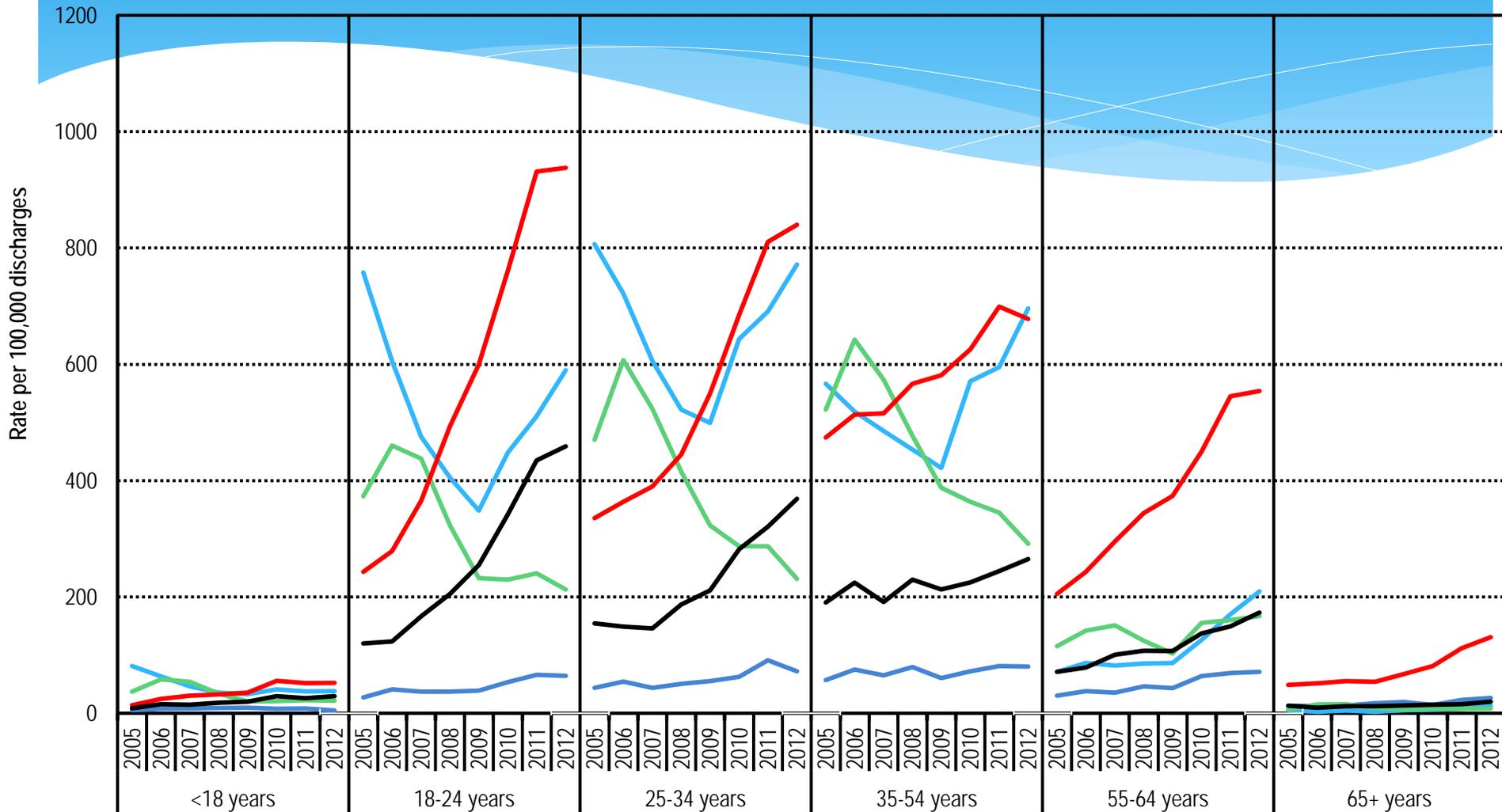
Emergency Department Discharge Rates† for Drug Related Conditions, 2005-2012



†Discharge rates are measured as visits with mention of drug-related conditions in any of the nine ICD-9CM codes and are not unique.

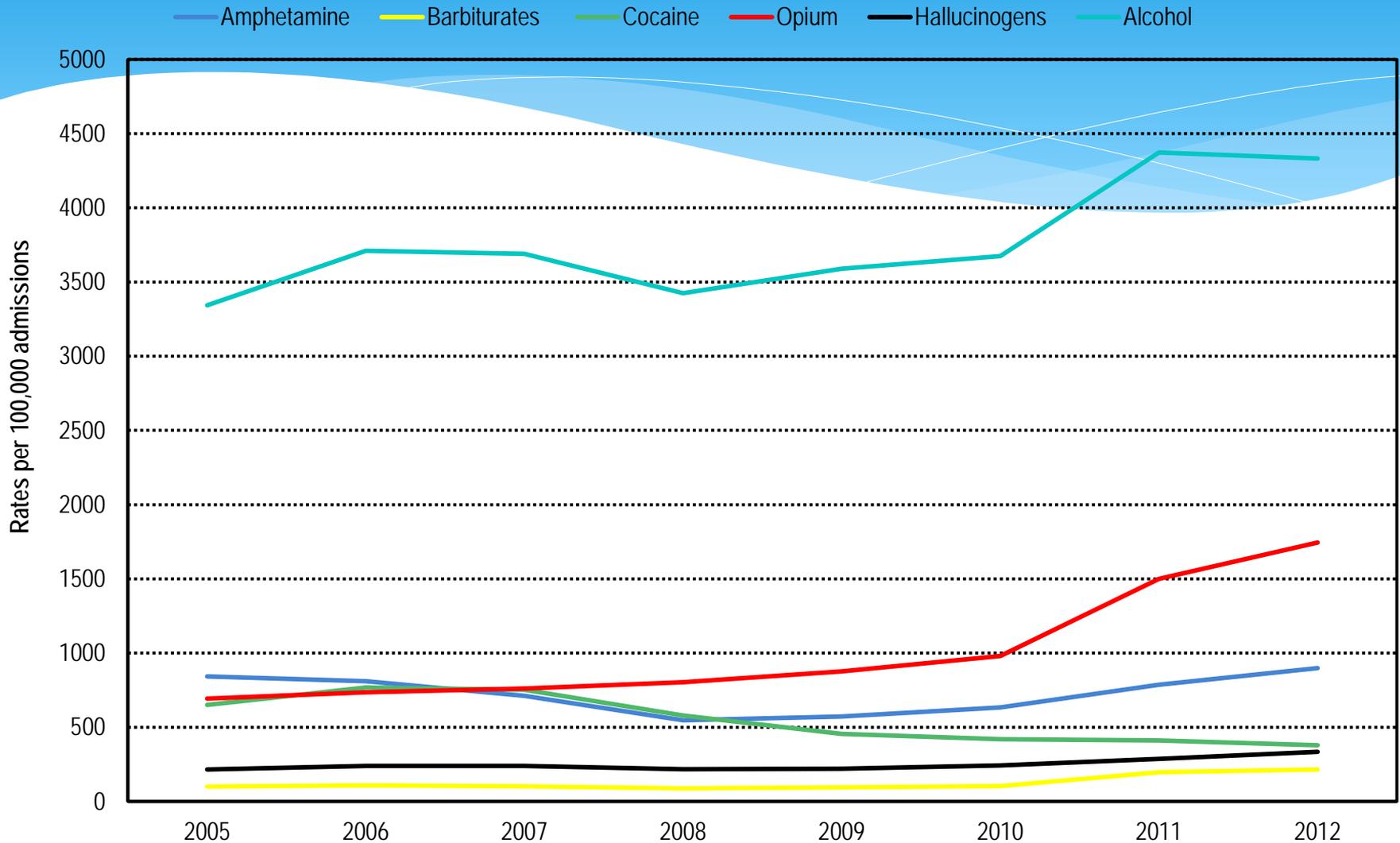
Emergency Department Discharge Rates† by Age-Group for Drug Related Conditions, 2005-2012

Amphetamine Barbiturates Cocaine Opium Hallucinogens



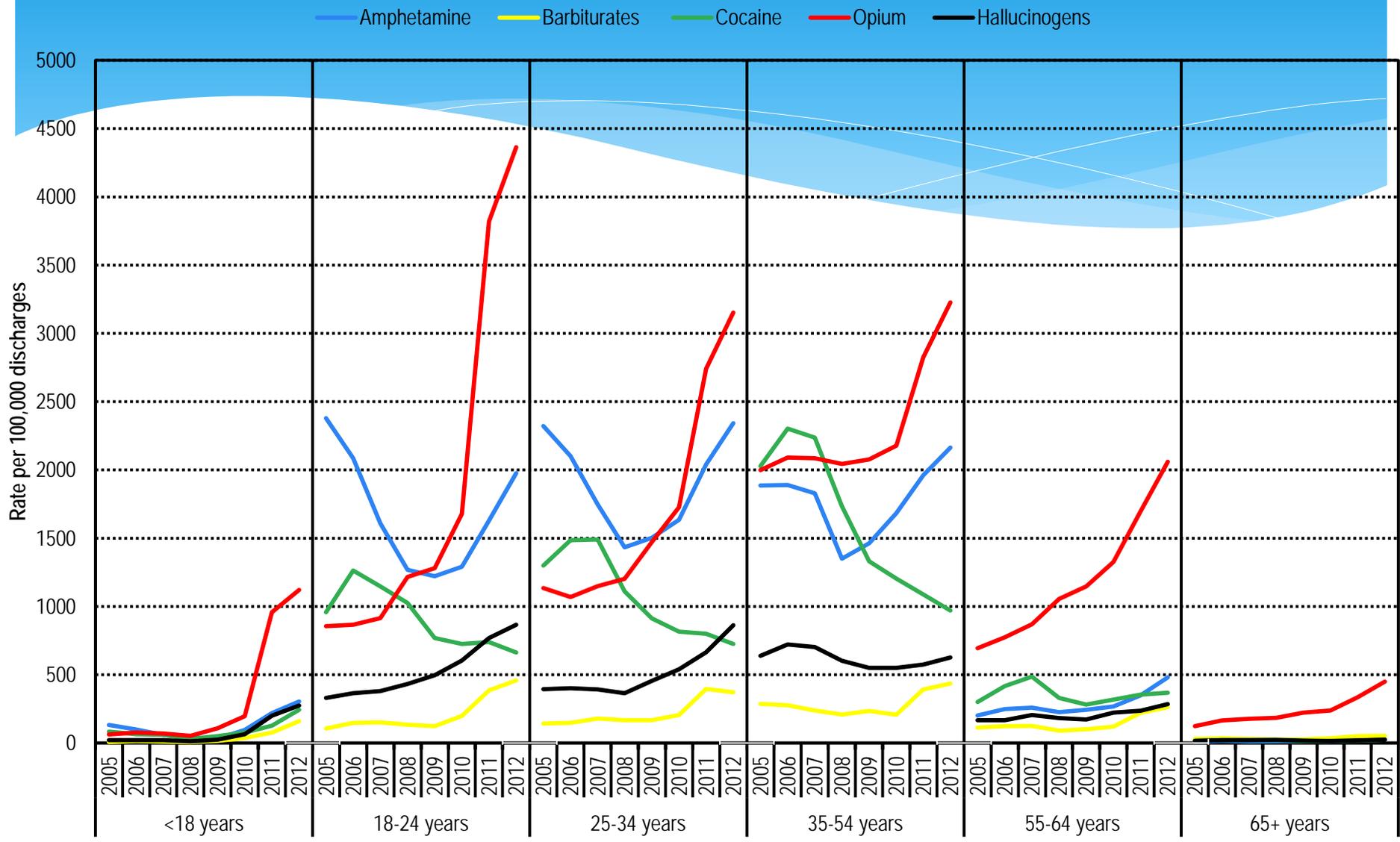
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Inpatient Hospitalization Rates† for Drug Related Conditions 2005-2012



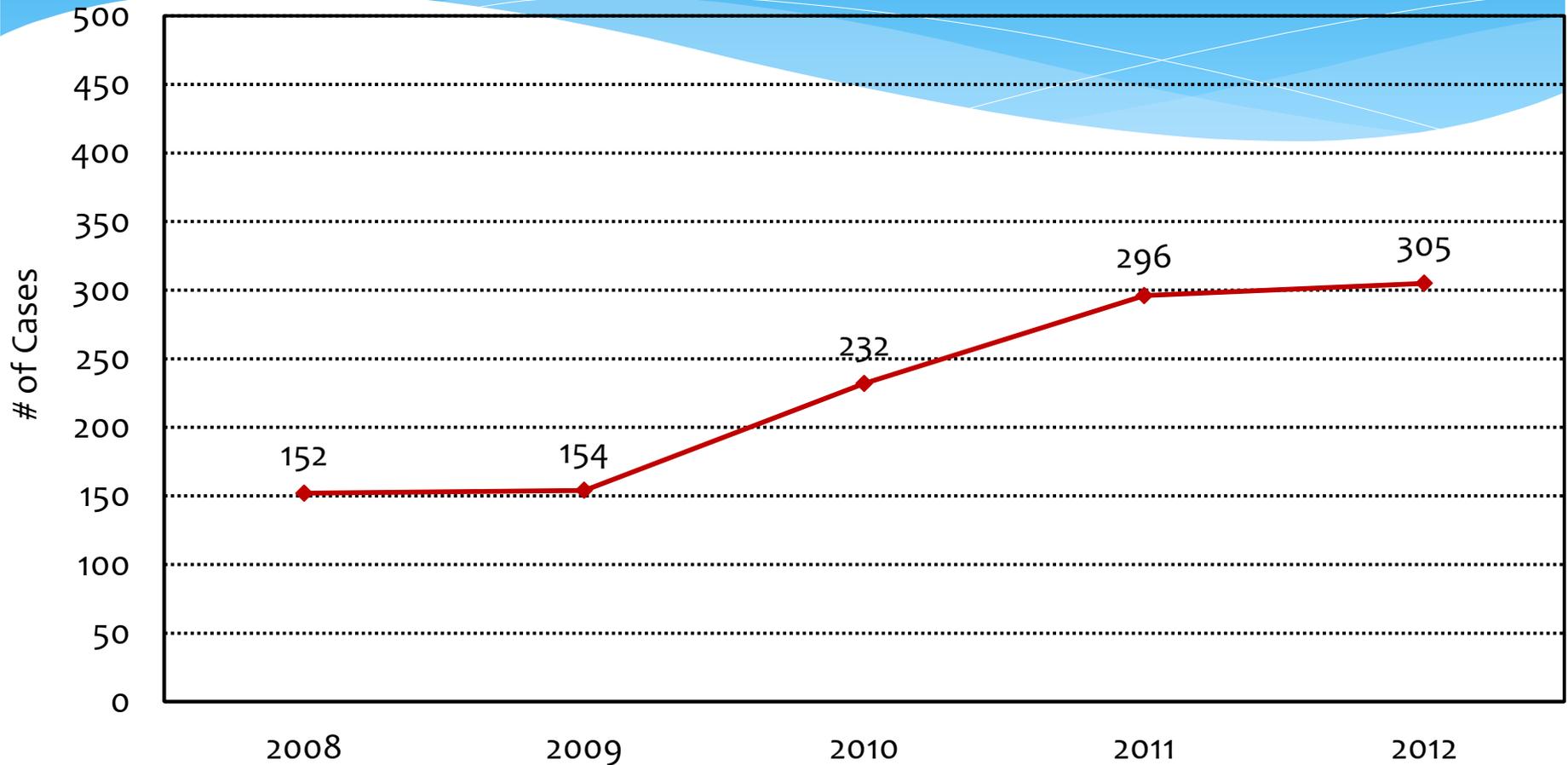
†Admission rates are measured as visits with mention of drug-related conditions in any of the nine ICD-9CM codes and are not unique.

Inpatient Hospitalization Rates† by Age-Group for Drug Related Conditions, 2005-2012



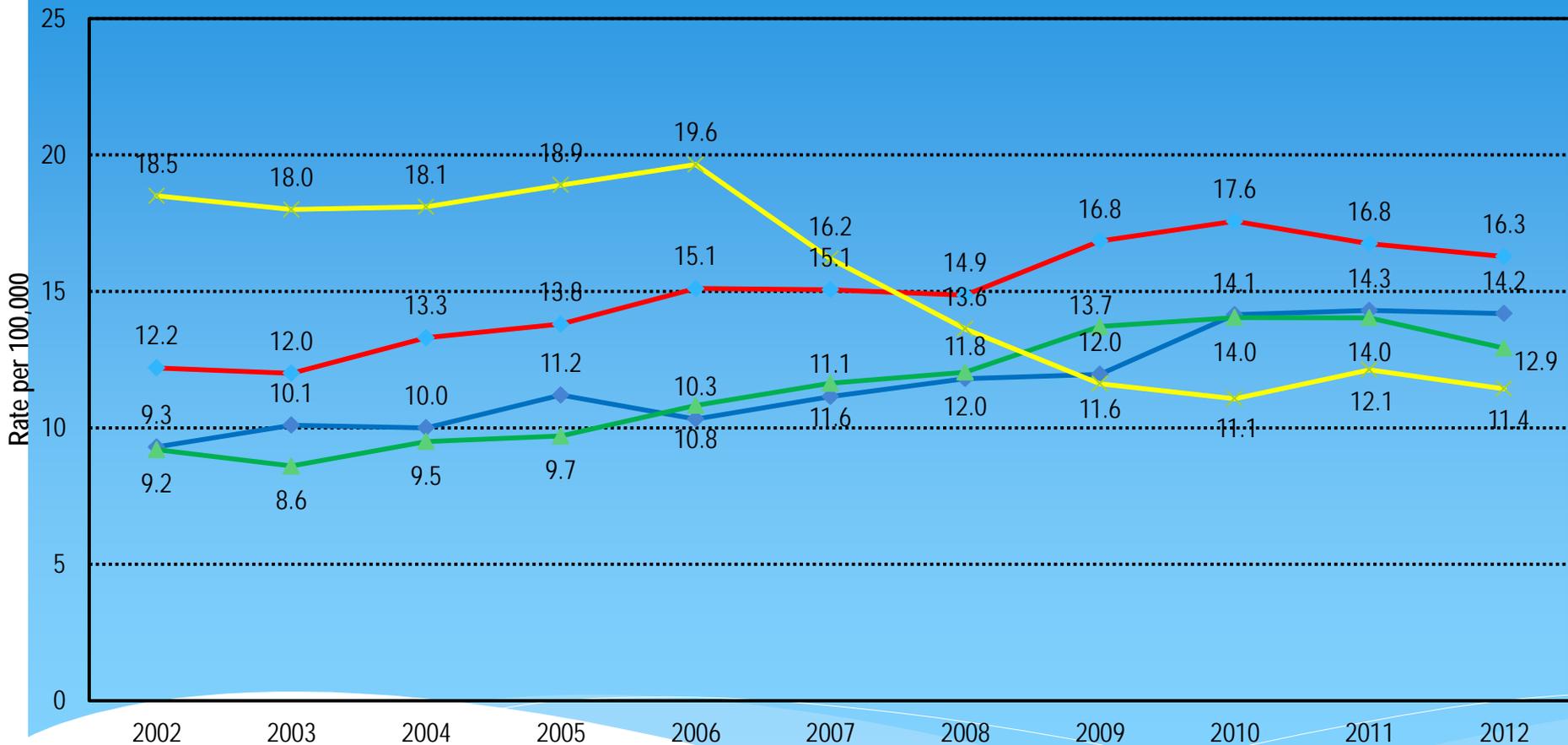
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Neonatal Abstinence Syndrome Cases, 2008-2012



Age-adjusted death rates 2002-2012

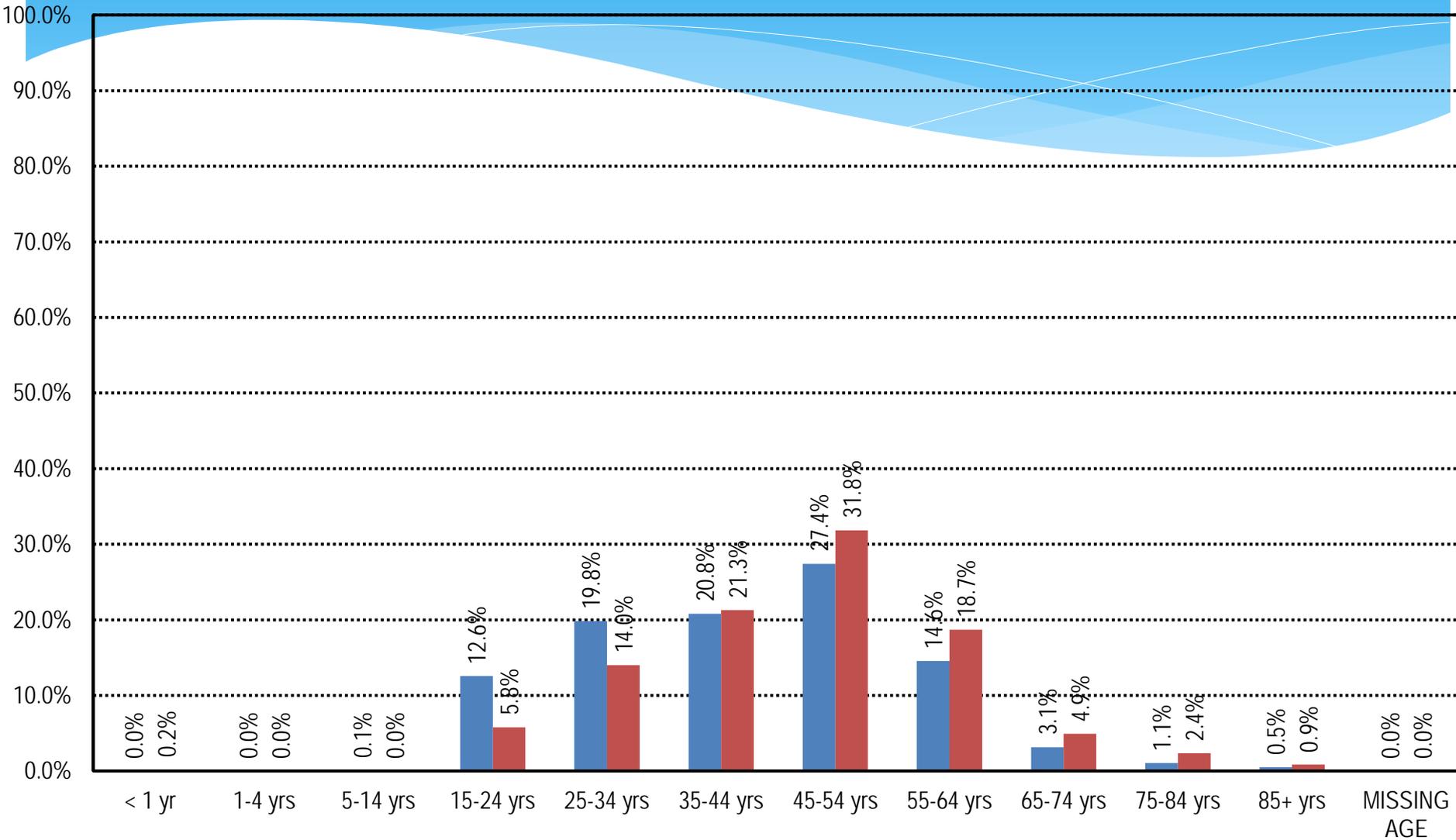
◆ Drug-induced deaths
 ◆ Alcohol-induced deaths
 ▲ Accidental poisoning deaths
 ✕ Motor vehicle accidents



Drug-induced deaths include all deaths for which drugs are the underlying cause including deaths attributable to acute poisoning by drugs (drug overdoses) and deaths from medical conditions resulting from chronic drug use. A drug includes illicit or street drugs (e.g., heroin or cocaine), as well as legal prescription drugs and over-the-counter drugs; alcohol is not included. ICD10 codes include D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11-16 (.0-.5, .7-.9), F17 (.0, .3-.5, .7-.9), F18-F19 (.0-.5, .7-.9), G21.1, G24.0, G 25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2-J70.4, L10.5, L27.0-L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R78.1-R78.5, X40-X44, X60-X64, X85, Y10-14. Accidental poisoning is a subset (ICD10 X40-X49). ICD10 codes for alcohol-induced deaths F10.3-F10.9 F10.0, F10.1 F10.2 G62.1

Drug-induced deaths by age and gender, 2008-2012 (N = 5,303)

■ Male ■ Female



5,303 drug-induced deaths 2008-2012

Drug-induced deaths include all deaths for which drugs are the underlying cause including deaths attributable to acute poisoning by drugs (drug overdoses) and deaths from medical conditions resulting from chronic drug use. A drug includes illicit or street drugs (e.g., heroin or cocaine), as well as legal prescription drugs and over-the-counter drugs; alcohol is not included. ICD10 codes include D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11-16 (.0-.5, .7-.9), F17 (.0, .3-.5, .7-.9), F18-F19 (.0-.5, .7-.9), G21.1, G24.0, G 25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2-J70.4, L10.5, L27.0-L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R78.1-R78.5, X40-X44, X60-X64, X85, Y10-14.

5,036 poisoning

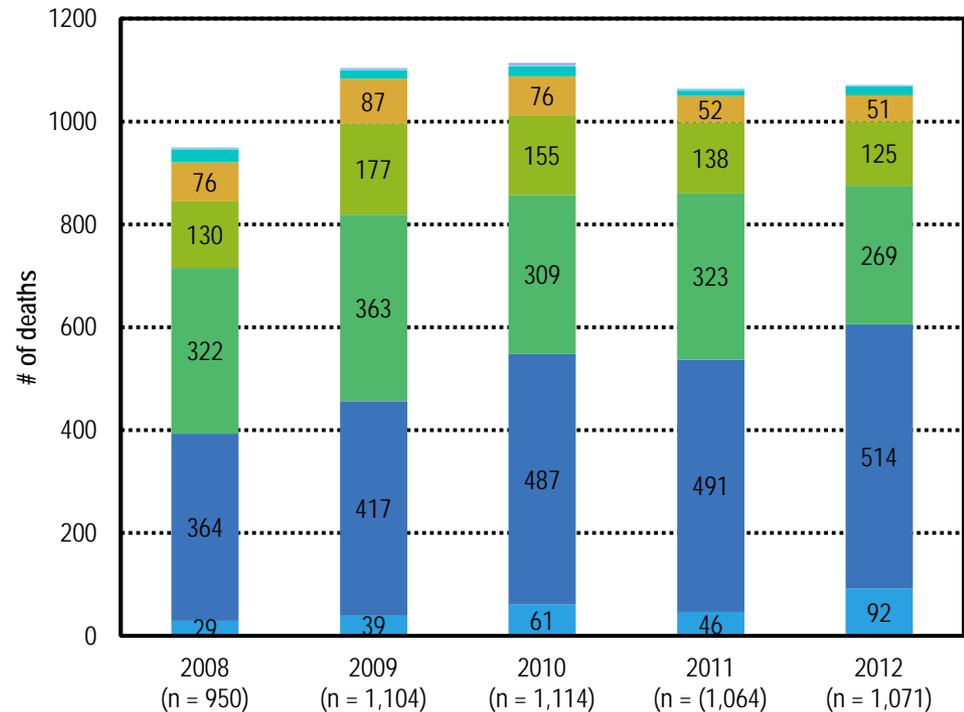
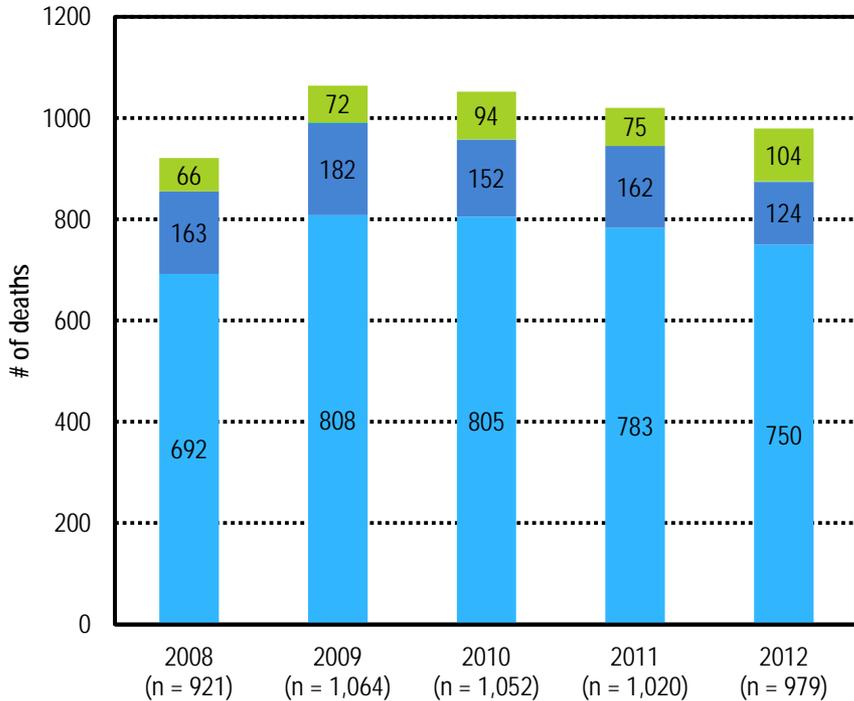
267 (Mental and behavioral disorders)
(107 or 40% were "mental and behavioral disorders due to use of tobacco")

Drug-induced poisoning deaths 2008-2012
(N = 5,036)

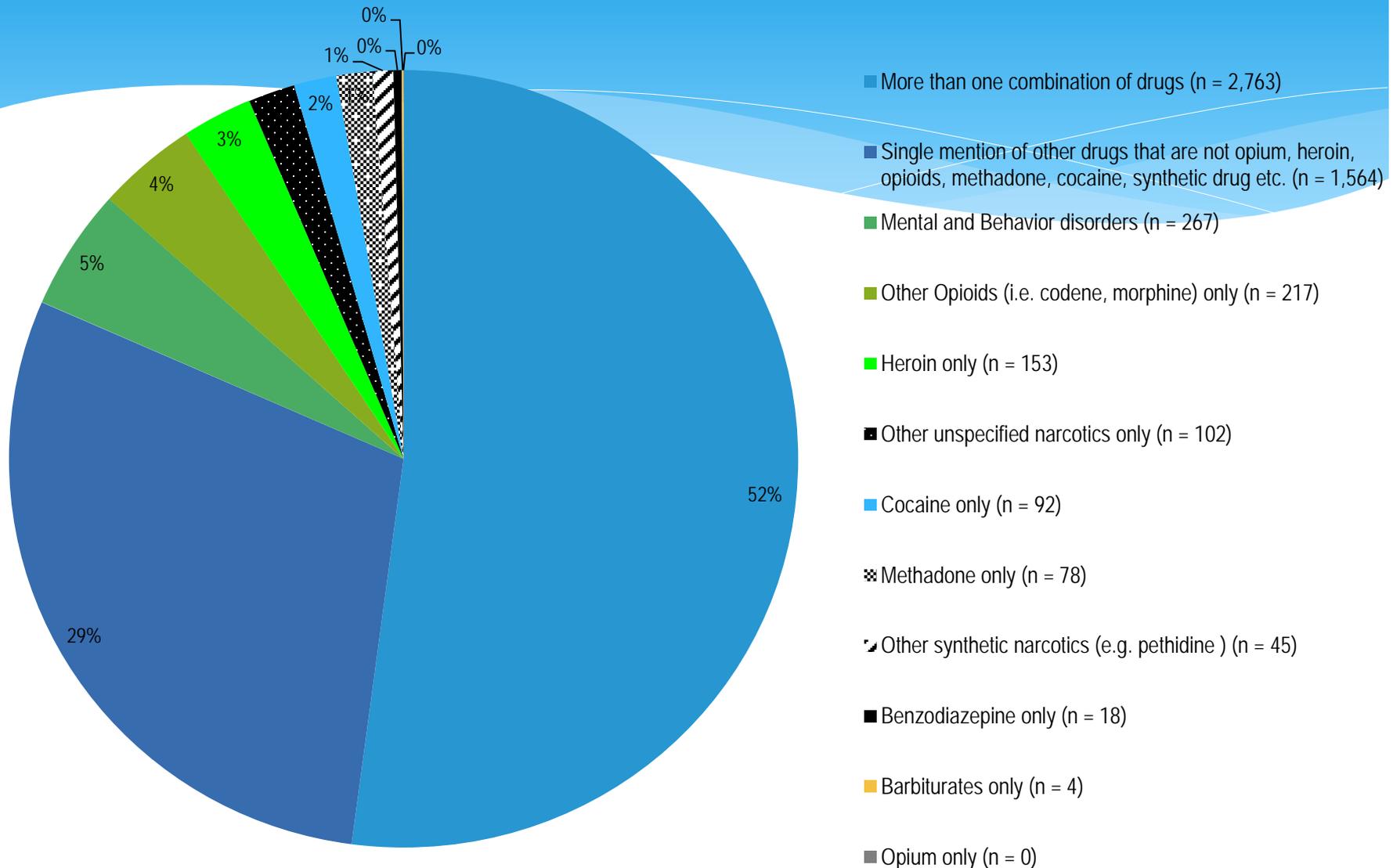
Number of drugs mentioned in drug-induced deaths† 2008-2012
(N = 5,303)

■ Unintentional ■ Suicide ■ Homicide ■ Undetermined

■ 0 ■ 1 ■ 2 ■ 3 ■ 4 ■ 5 ■ 6 ■ 7



Combination of drugs in drug-induced deaths, 2008-2012 (N=5,303)



The Arizona Prescription Drug Misuse and Abuse Initiative

A Multi-Systemic Approach for Reducing Health and Criminal Justice Consequences



The AZ Rx Initiative Conceptual Framework

SUPPLY

Awareness of the Problem Use of the PDMP Scripts & Pills Dispensed

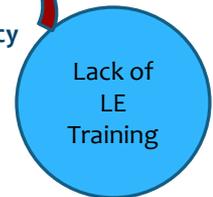
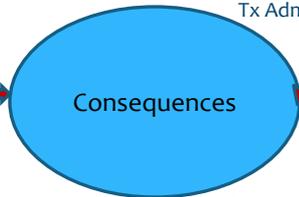


DEMAND

Attitudes & Beliefs Antecedent Behavior

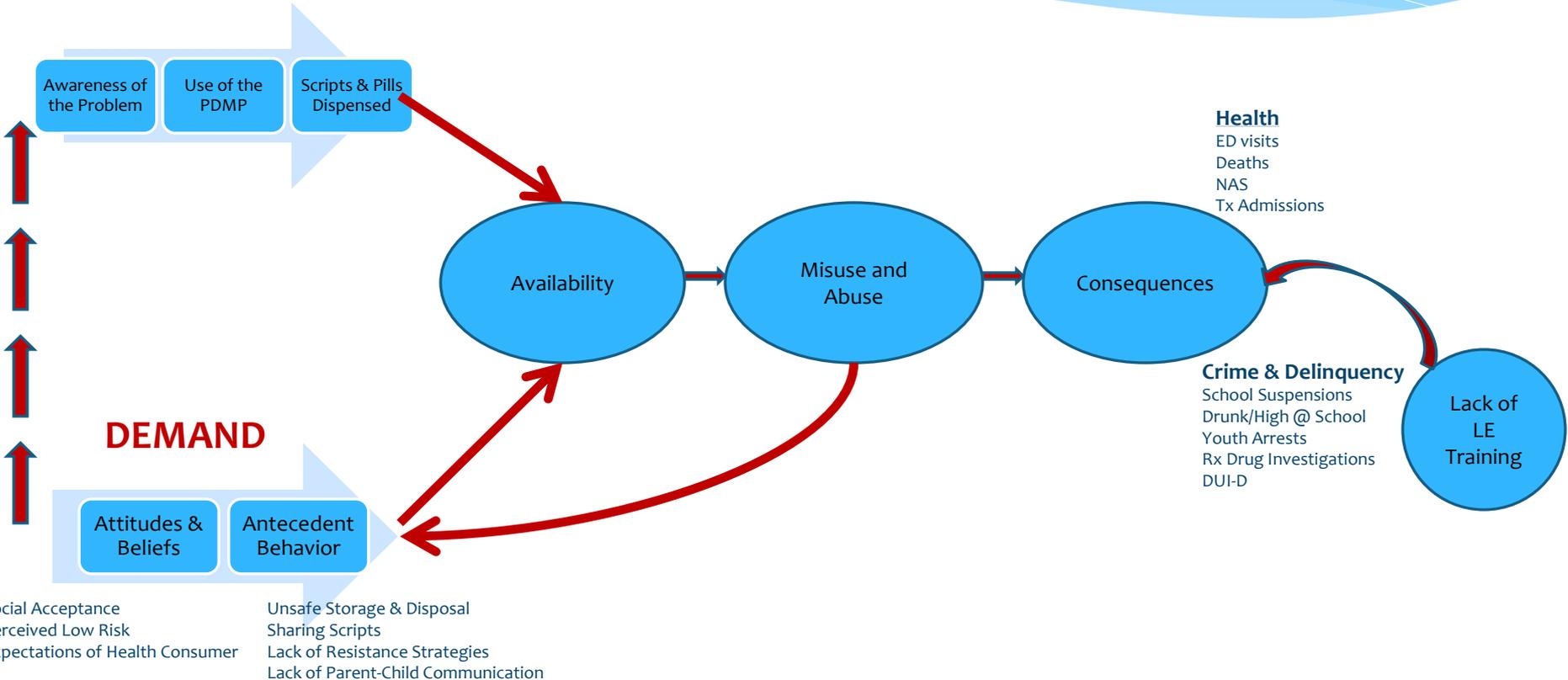
Social Acceptance
Perceived Low Risk
Expectations of Health Consumer

Unsafe Storage & Disposal
Sharing Scripts
Lack of Resistance Strategies
Lack of Parent-Child Communication



Health
ED visits
Deaths
NAS
Tx Admissions

Crime & Delinquency
School Suspensions
Drunk/High @ School
Youth Arrests
Rx Drug Investigations
DUI-D



Strategies

STRATEGY	MODE
<p>Promote PDMP Sign Up & Use</p>	Education & Training
	Report Cards
	Email Blasts
	Certificate Awards
	Letters
	Door-to-Door
<p>Promote Proper Storage and Disposal Methods</p>	Education & Training (Rx360 Curriculum)
	Permanent Drop Boxes and Take-Back Events
	Media
	Community Events
	Patient Handouts
<p>Promote Responsible Prescribing</p>	Education & Training
	*Best Practice Consensus Meetings and Documents
	*Board and Professional Organization Endorsement
	Email Blasts
<p>Enhance Law Enforcement Practices</p>	Report Cards
	Education & Training (Rx Drug Crimes Curriculum)
<p>Increase Public Awareness and Patient Education</p>	Efficient Reporting System
	Parent and Youth Education & Training (Rx360 Curriculum) - Risks and resistance strategies
	*Patient Education - risks and benefits; adherence to treatment; pain management expectations; available alternatives
	Media
<p>*Enhance Assessment and Referral to Treatment</p>	Community Events
	Education & Training

Preliminary Process Evaluation Results

- * 34 drop boxes are operational in the pilots and two take-back events were held in each site, **collecting 5,783 lbs**
- * **5 of 6 hospitals** are implementing ED Guidelines
- * Over **1,100 prescribers** are receiving quarterly report cards
- * **135 professionals** have received comprehensive Best Practice training or door-to-door
- * **201 Law Enforcement Officers** have received Rx Crimes curriculum
- * **8,137 youth** and **834 adults** have received the Rx360 curriculum
- * **17,834 people** have been reached via community events
- * Over **397,000 people** have been reached via public messaging and media methods

Yavapai County

Prescription Drug Monitoring Program Results

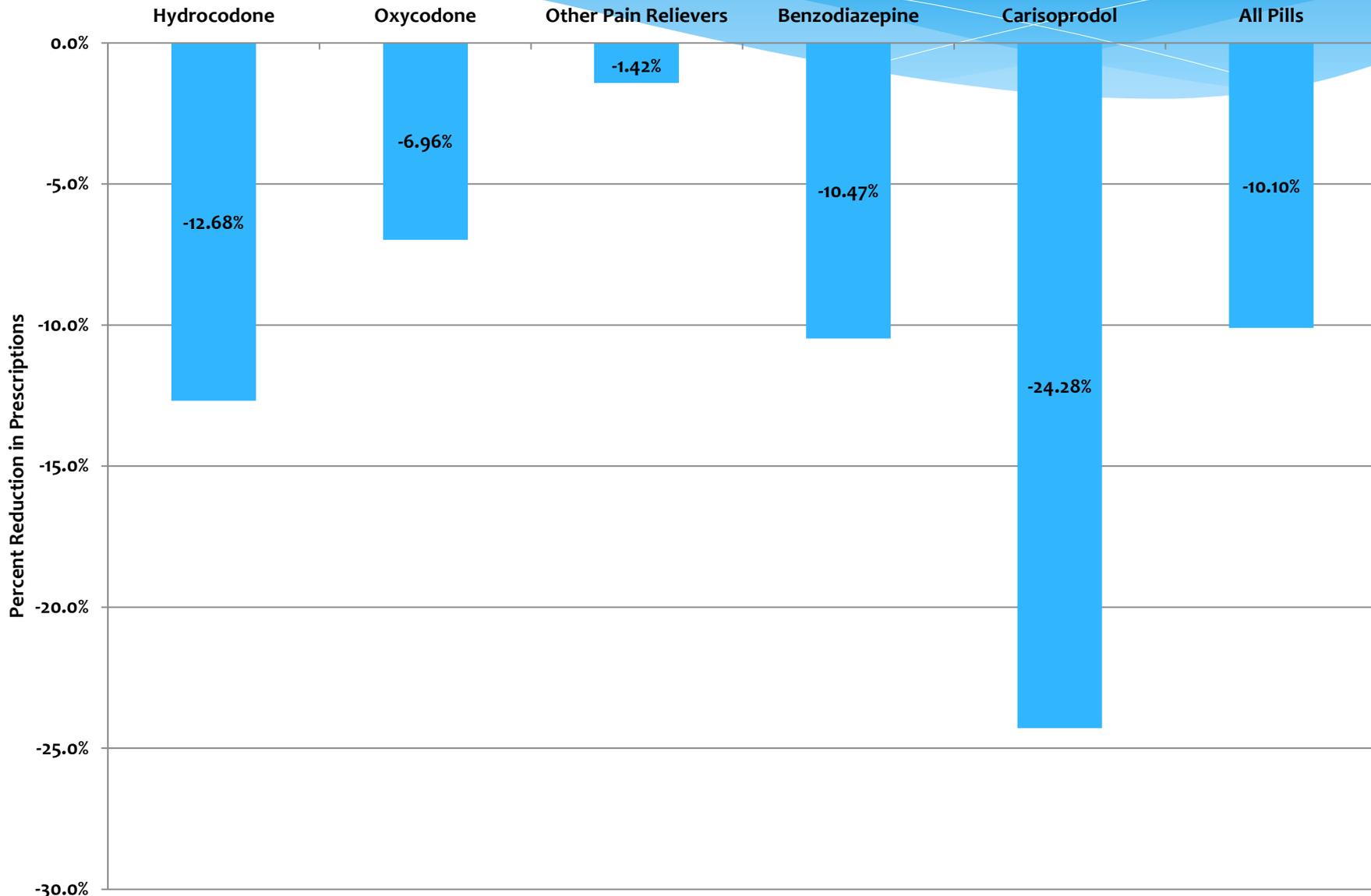
- * **PDMP sign up has increased** 115% for law enforcement, 53% for prescribers and 149% for pharmacists in the pilot sites
 - * 40% of prescribers are signed up for the PDMP in the pilots vs. 23% at the state
- * **PDMP use has increased** 60% for prescribers in Yavapai County
 - * **Number** of prescribers **making the queries** increased 14%

Pinal County

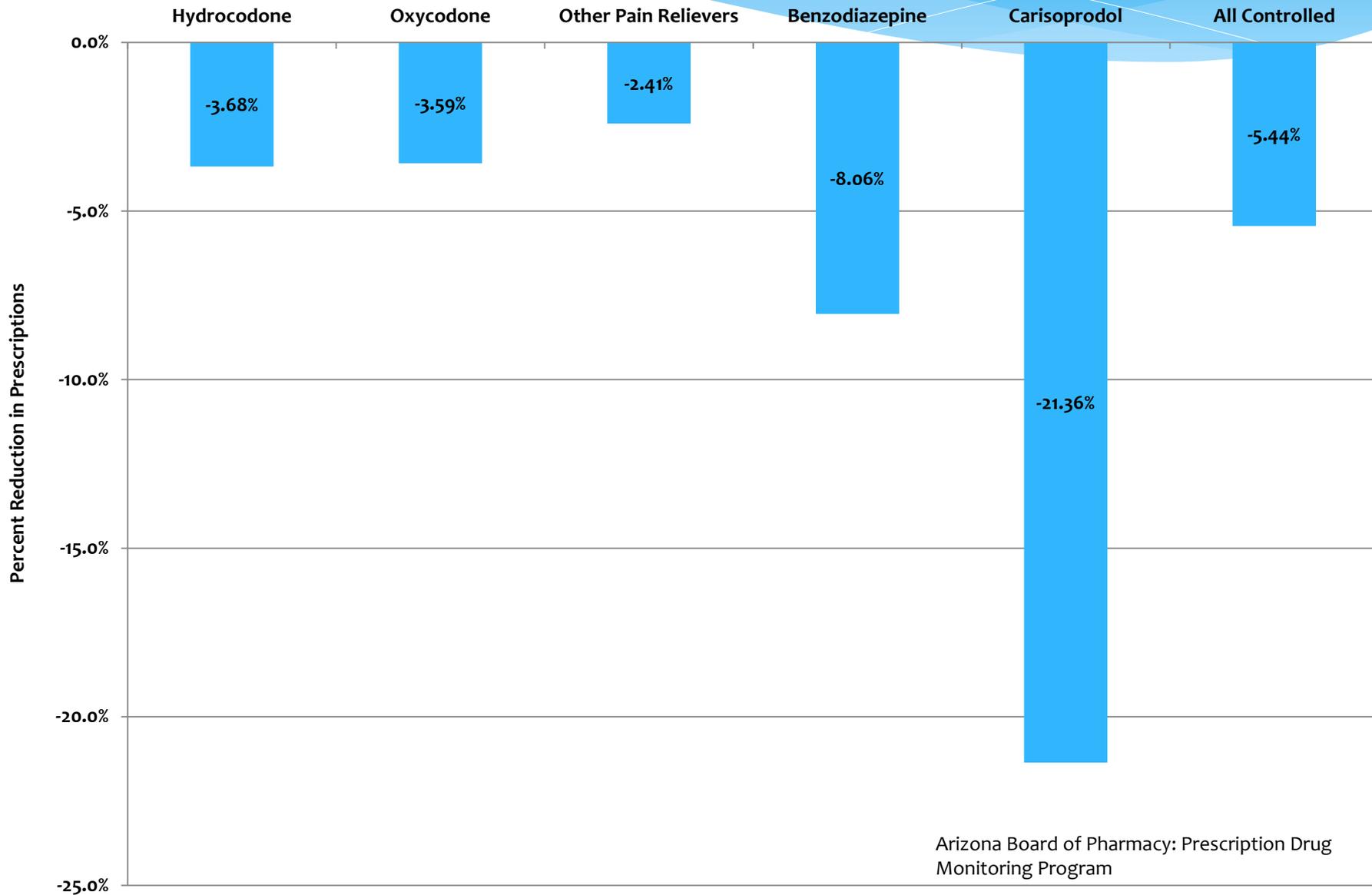
Prescription Drug Monitoring Program Results

- * **PDMP sign up has increased 2500%** for law enforcement (from 1 to 26), 89% for prescribers and 189% for pharmacists in Pinal County
 - * 28% of prescribers are signed up for the PDMP in Pinal County vs. 23% at the state
- * **PDMP use has increased 14%** for prescribers in Pinal County
 - * **Increased 18.4%** for ED Prescribers & **13.5%** for Non-ED Prescribers
 - * **Number** of prescribers **making the queries** increased 43%
 - * **Increased 80%** for ED Prescribers & **39.6%** for Non-ED Prescribers

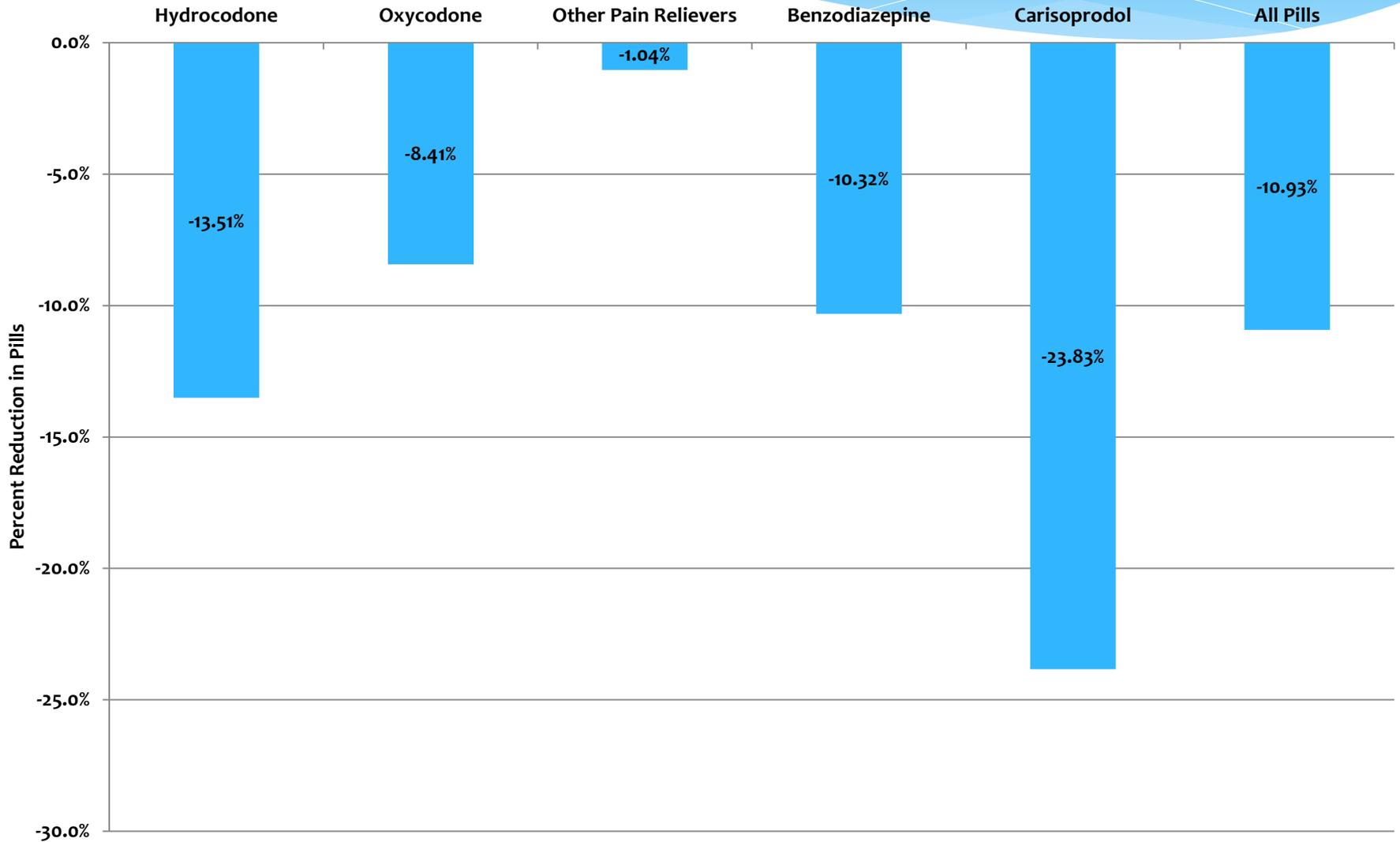
Percent Change in Yavapai County Controlled Substance Prescriptions (May 2012 to June 2013)



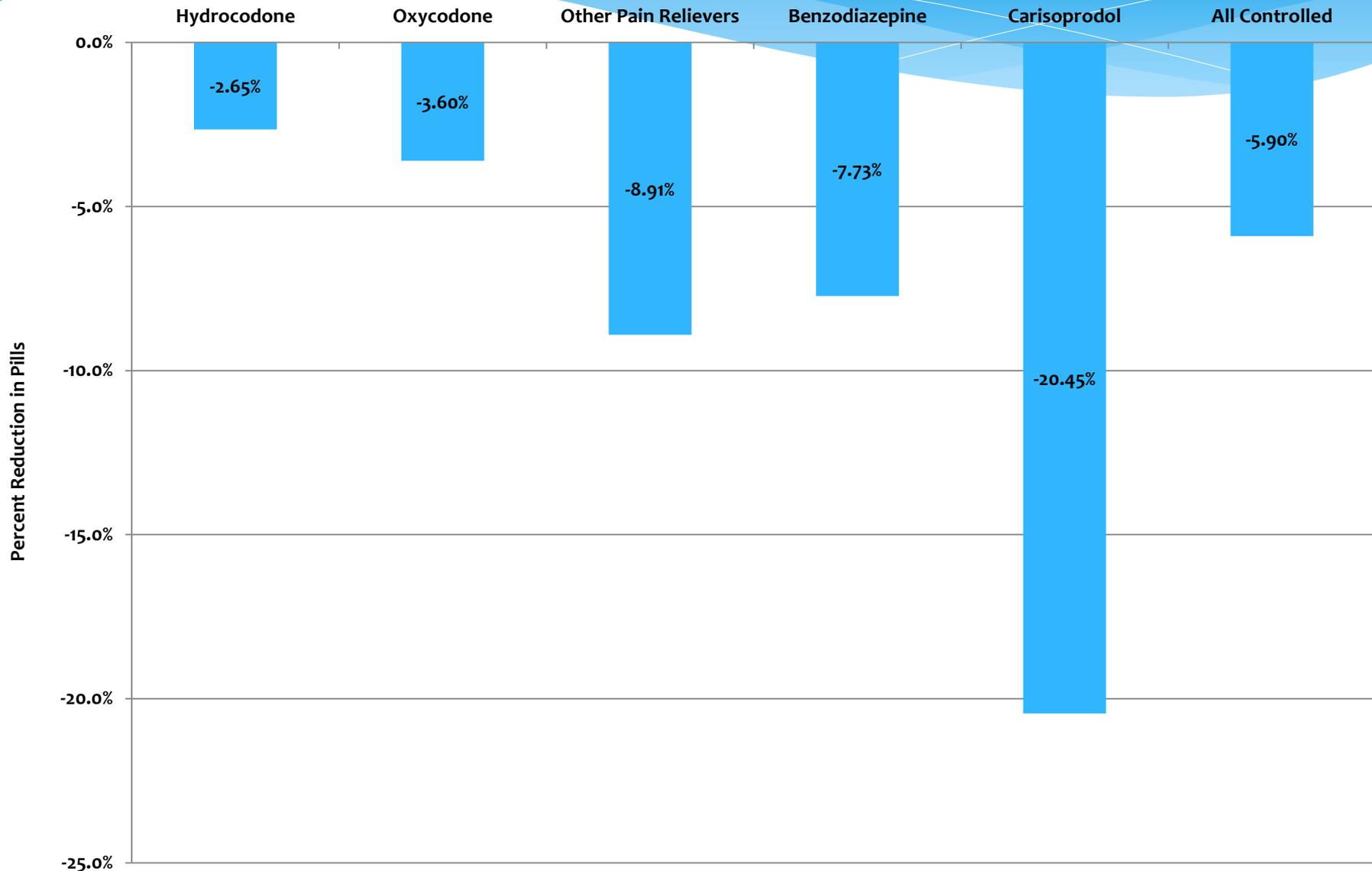
Percent Change in Pinal County Controlled Substance Prescriptions (September 2012 to September 2013)



Percent Change in Yavapai County Controlled Substance Prescriptions Pills (May 2012 to June 2013)



Percent Change in Pinal County Controlled Substance Prescriptions Pills (September 2012 to September 2013)



Lessons Learned

- * **PDMP needs improvement**
 - * Not real-time
 - * Online sign-up an improvement but mandatory tutorial still a roadblock
 - * Physicians asking for ability to have **office designee**
- * **Reimbursement/Patient Satisfaction issue in ED**
- * **Need for Community Prescriber Guidelines**
- * **Need for Patient Education**
- * **Strengthening Referral to Tx**
- * **Report cards**
 - * Category groupings have been challenging, especially in small areas
 - * Need more rigorous method of establishing **“outliers”**
- * **Some difficulty reaching adults with Rx360 curriculum**