

What? Texas Has Two Drug Epidemics Now?

Jane C. Maxwell, Ph.D.

Research Professor

Addiction Research Institute

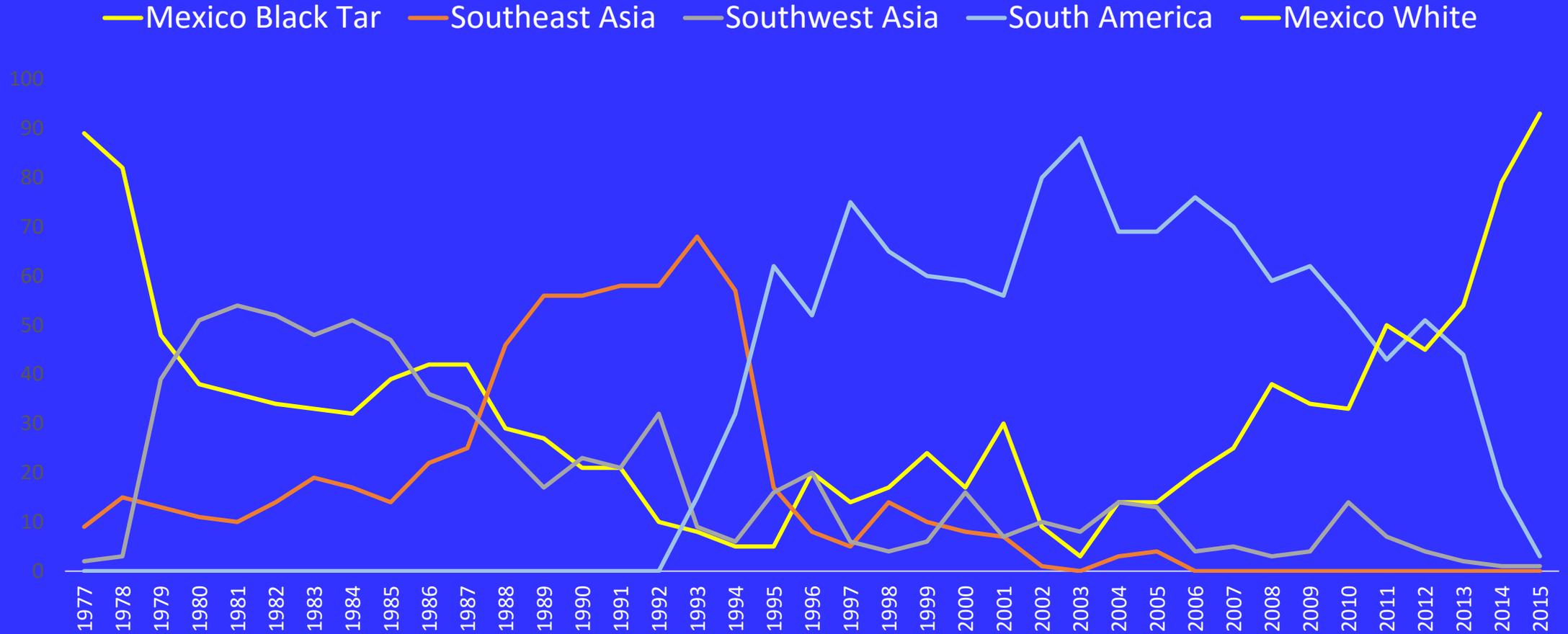
University of Texas School of Social Work

Heroin Sources and Supply Routes



TRANSITION IN HEROIN SOURCE AREAS*

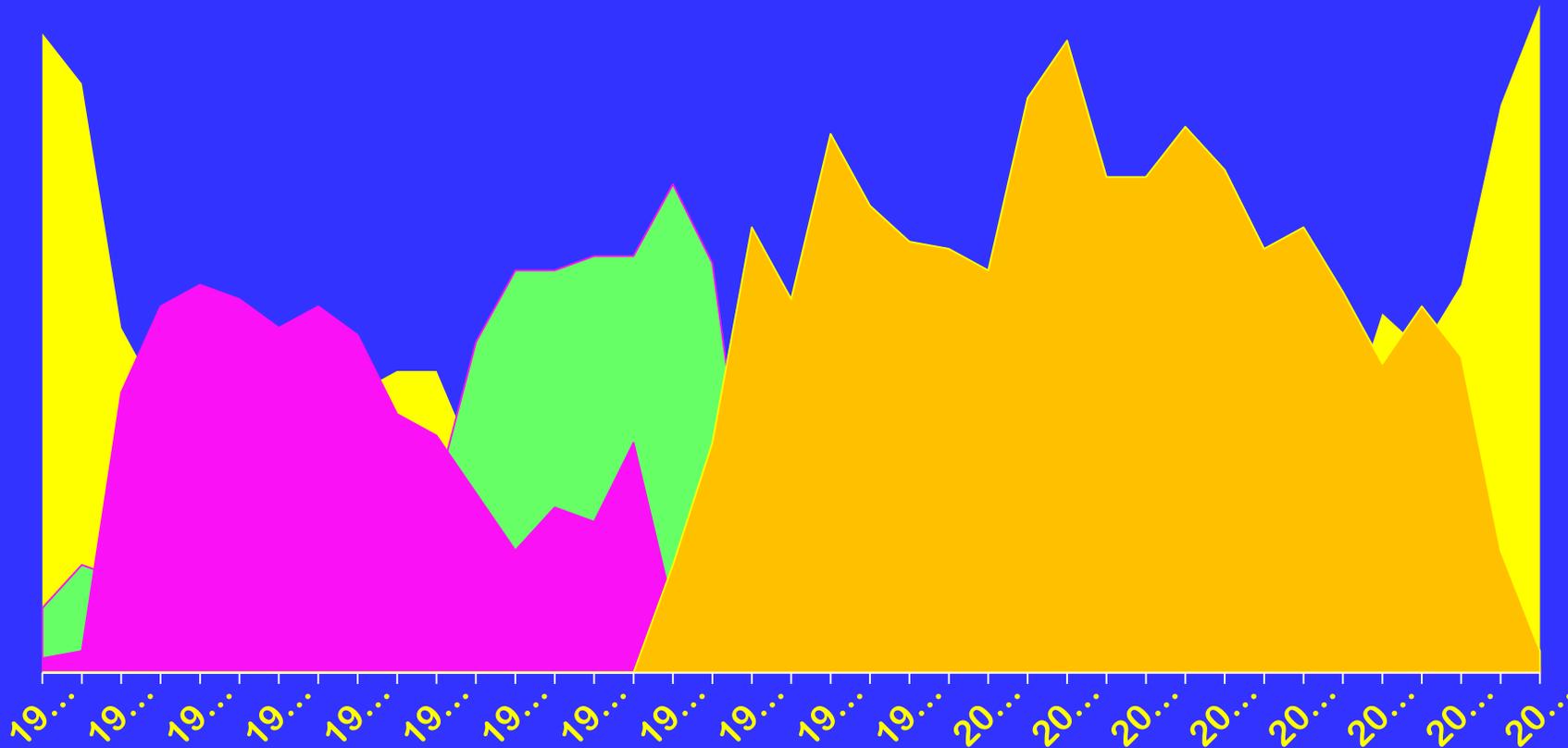
Heroin Source Area Distribution 1977-2015



TRANSITION IN HEROIN SOURCE AREAS*

Heroin Source Area Distribution 1977-2015

■ Mexico ■ Southeast Asia ■ Southwest Asia ■ South America



Source: DEA Heroin Signature Program

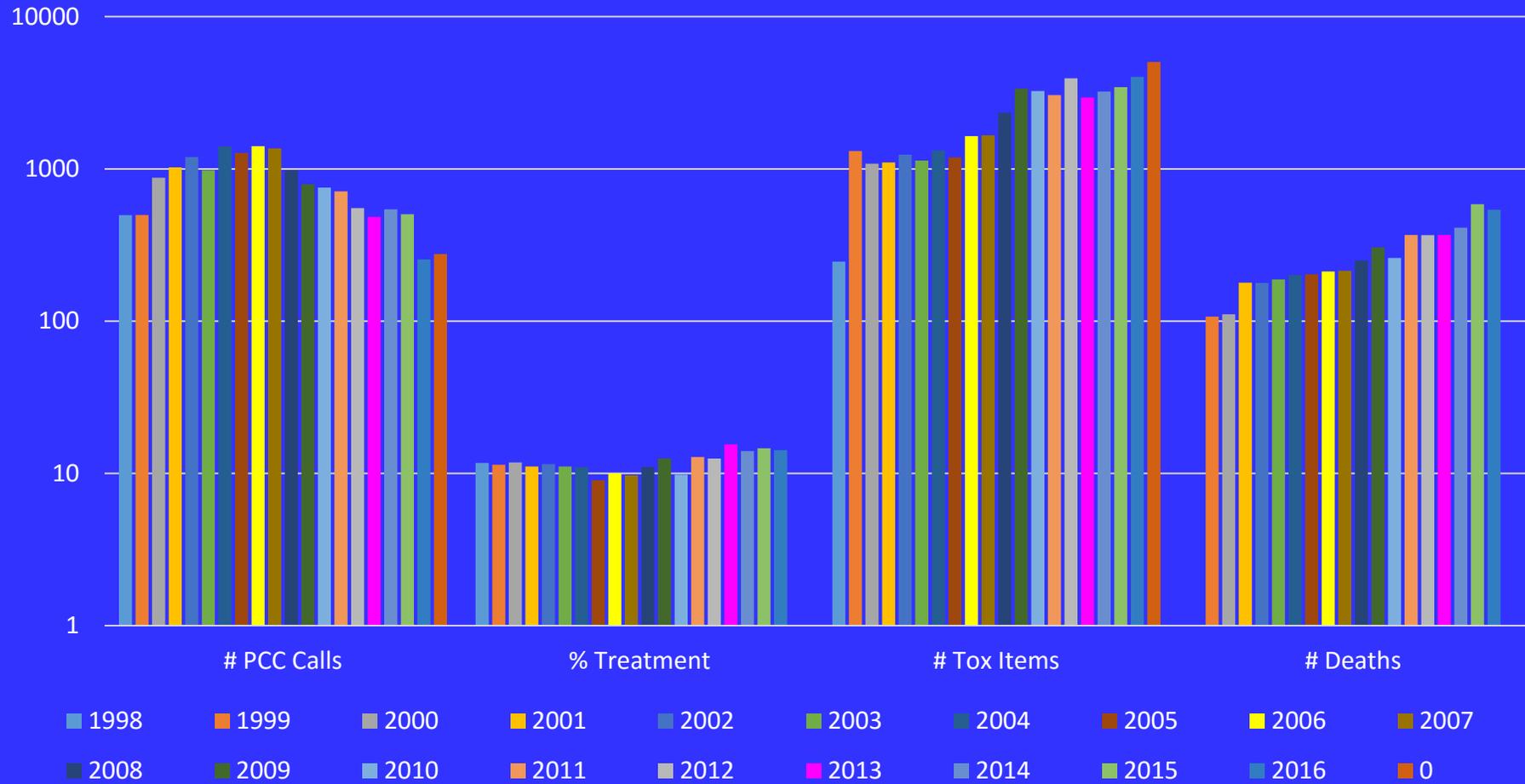
More Types of Heroin and Higher Purity

Regular Black Tar purity increased from 19% to 29% between 2011-2015.

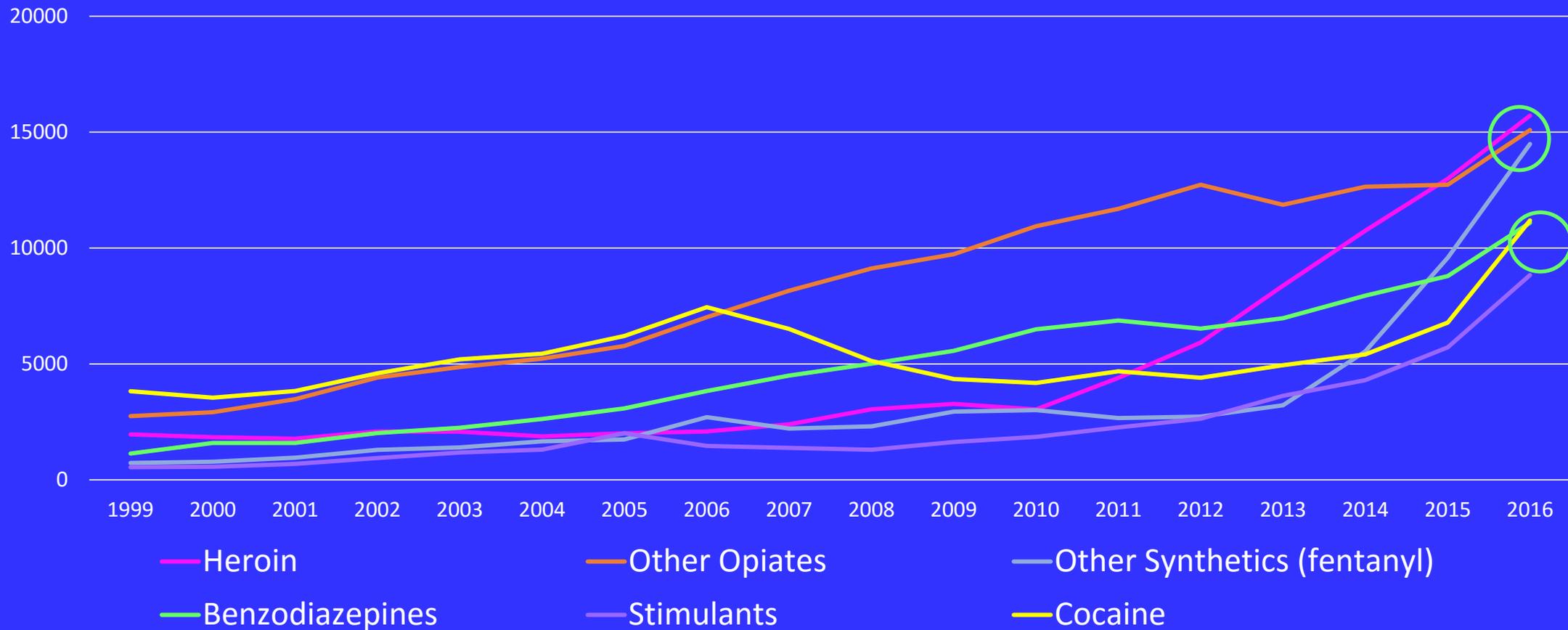
South American heroin purity has increased from 31% to 39%.

New white Mexican-South American powder purity has increased from 70%-75% purity in 2013-2014 to 80%-85% in 2016-2017.

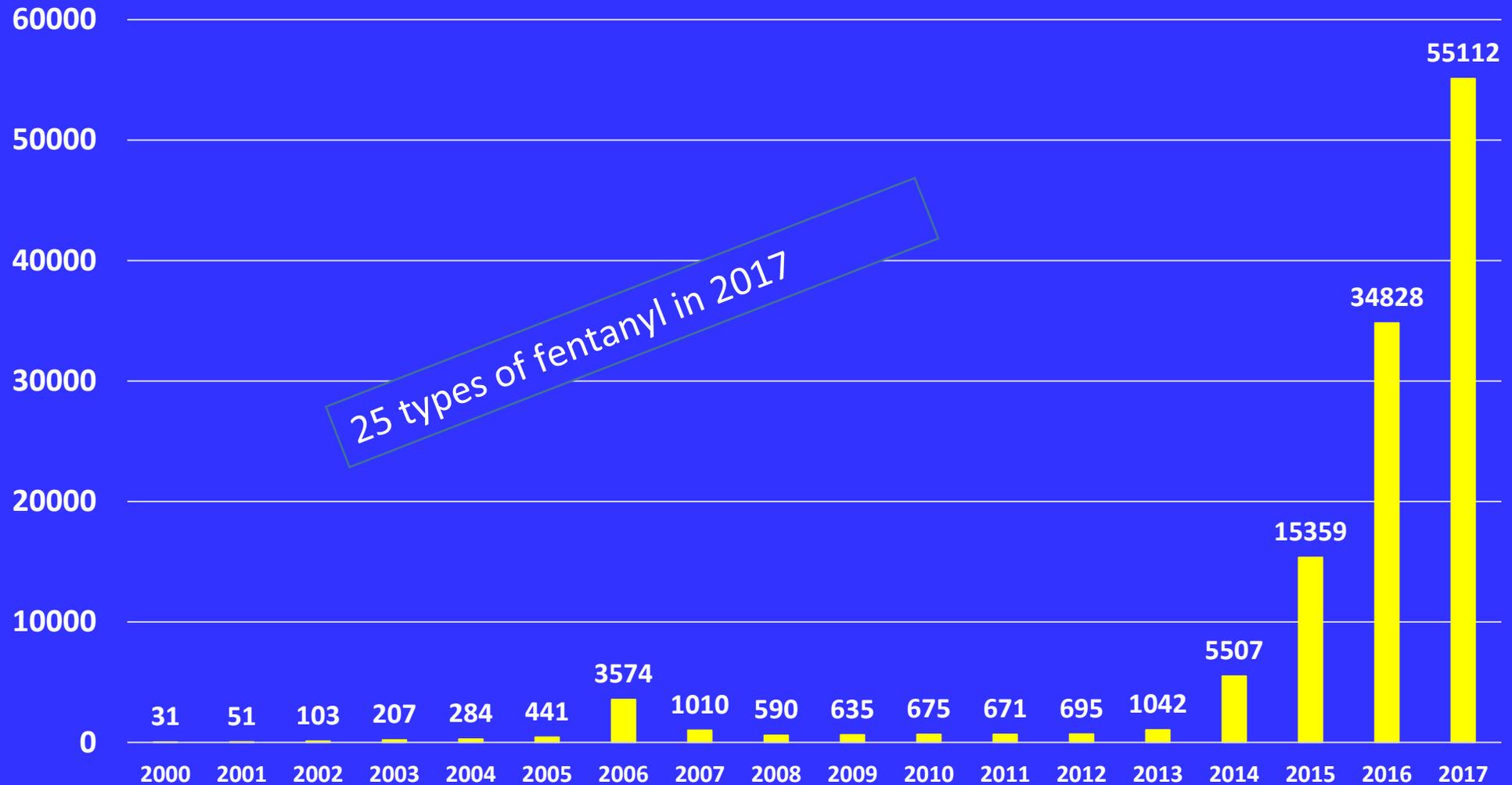
Indicators of Heroin Trends in Texas: 1998-2017



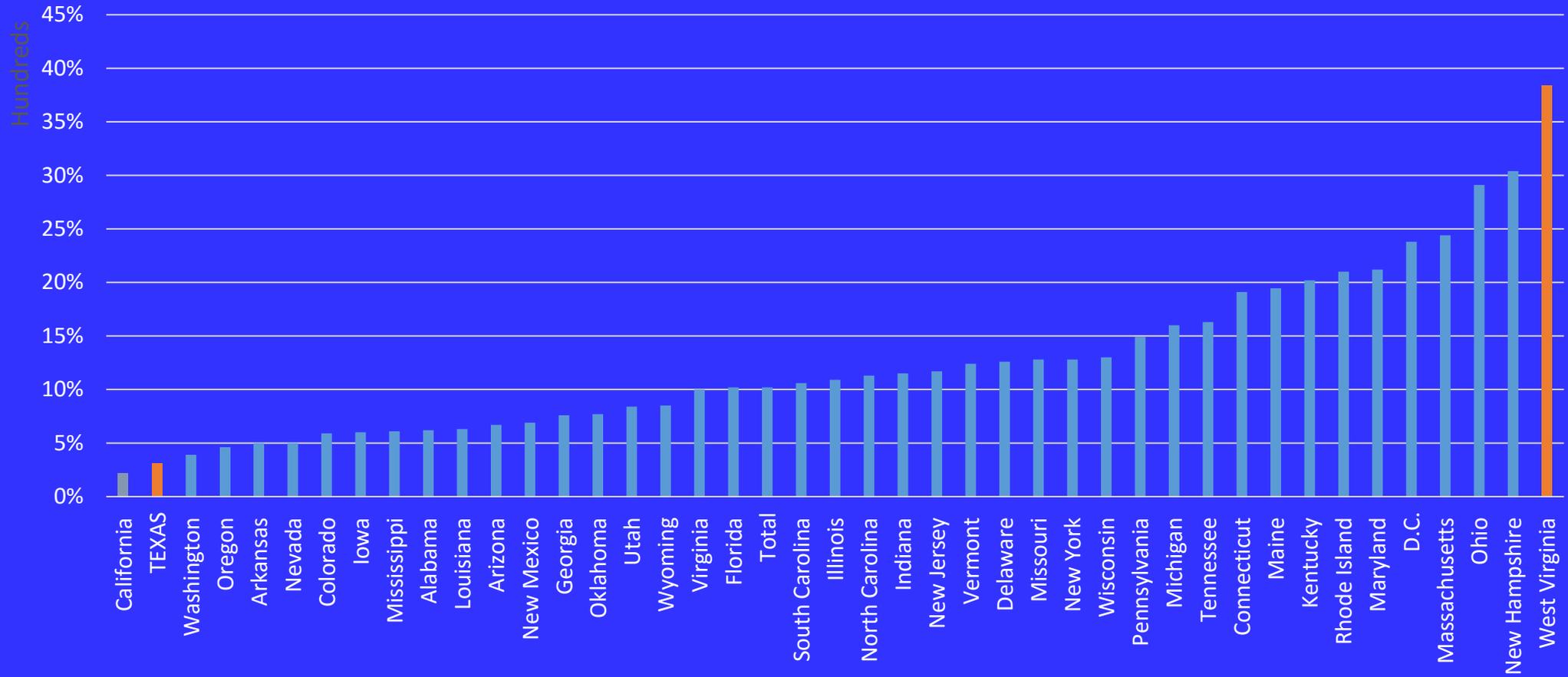
Number of Drug Poisoning Deaths: United States: 1999—2016



Fentanyl Items Identified in US Forensic Laboratories: 2000-2017

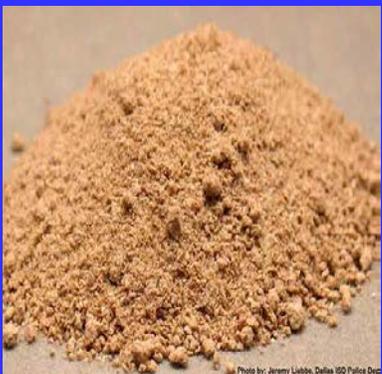


Changes in Crude Rates of Opioid Deaths: 2010 to 2016





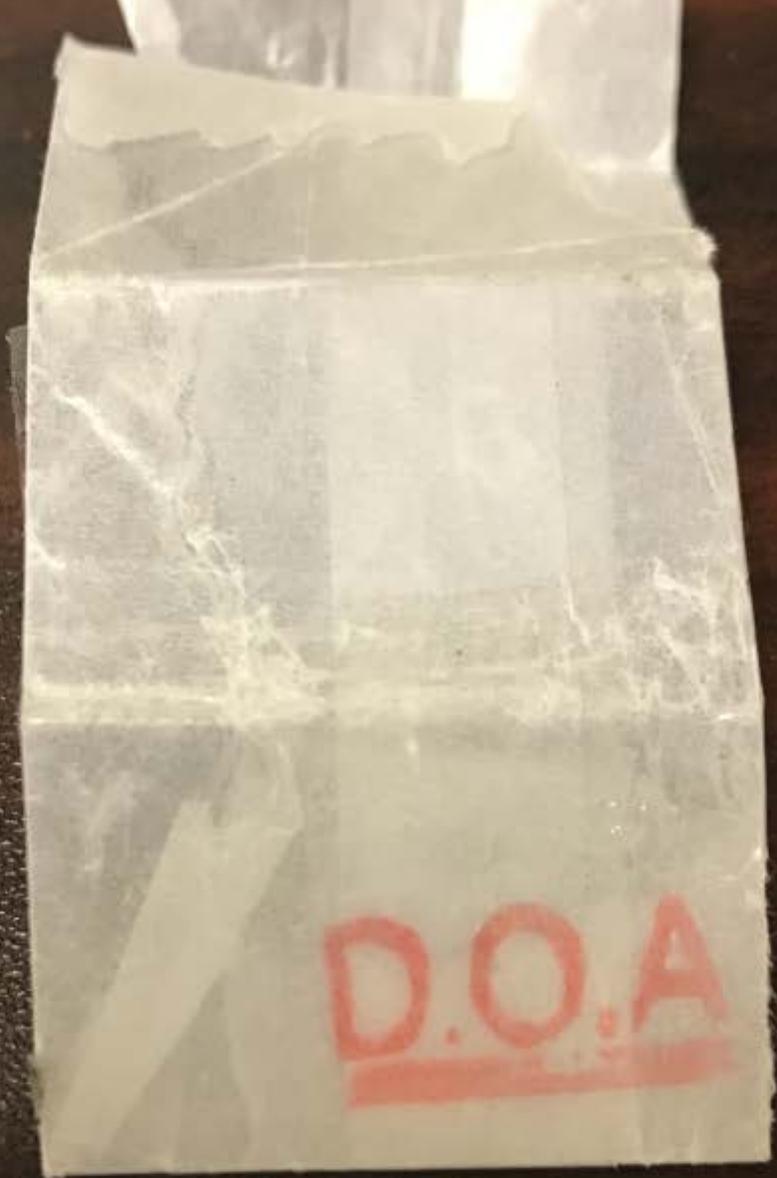
Mexican Black Tar Heroin



SWA Brown Heroin or "Cheese" Heroin

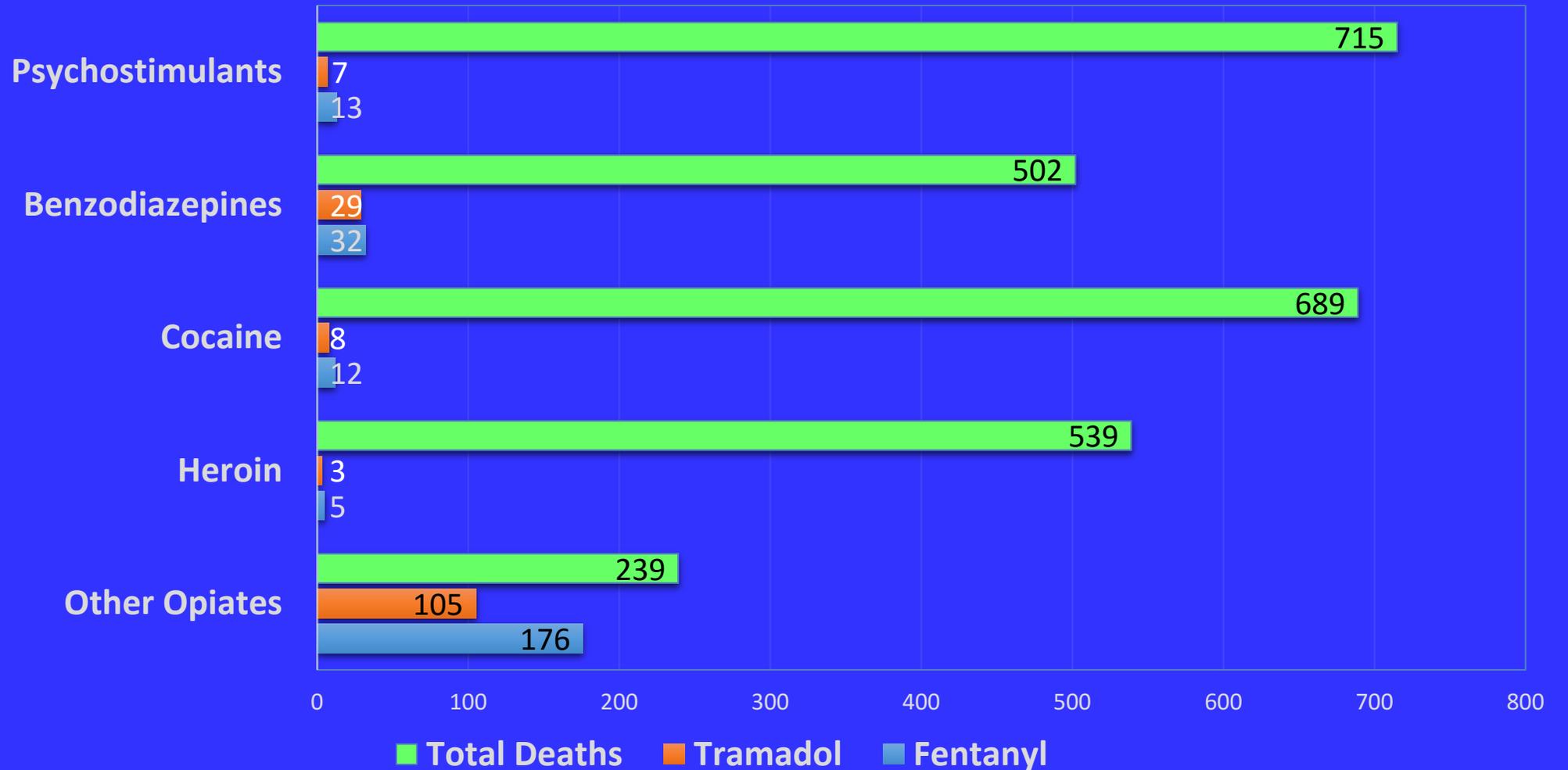


**South American Heroin
or "new" Mexican
White Heroin**



D.O.A.

Category of Drug Deaths and Mentions of Tramadol or Fentanyl on Death Certificate: Texas 2016



Examples of Other Opiates and Fentanyl from Texas Death Certificates: 2017

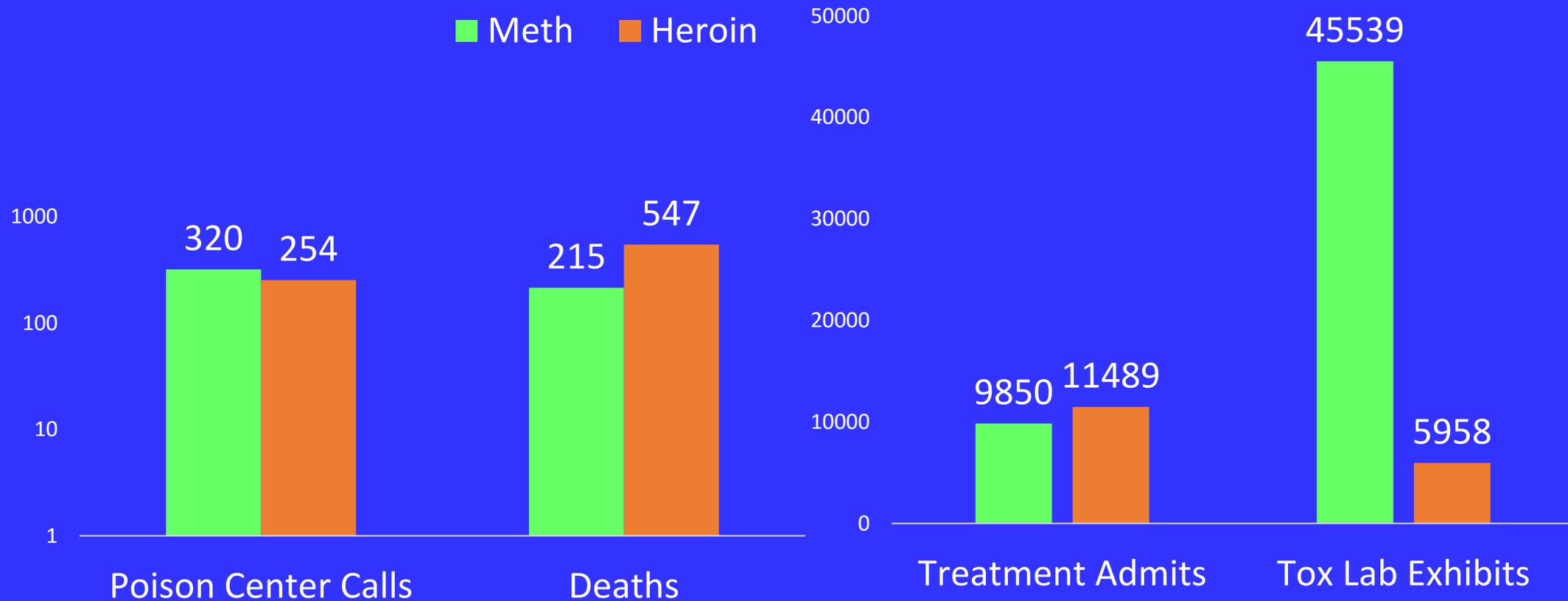
1									
	HYDROCODONE,TRAMADOL,MORPHINE, FENTANYL, GABAPENTIN								
	FENTANYL AND HYDROCODONE								
	FENTANYL AND METHADONE INTOXICATION								
	FENTANYL AND CLONAZEPAM TOXICITY								
	METOPROLOL, AMLODIPINE, FENTANYL, OXYCODONE, AND DIAZEPAM								
	AMITRIPTYLINE, FENTANYL, HYDROCODONE, ALPRAZOLAM, QUETIAPINE, AND DIPHENHYDRAMINE								
	FENTANYL, MORPHINE, AND VENLAFAXINE								
	ALPRAZOLAM, COCAINE, FENTANYL, HYDROCODONE, TRAMADOL								
	FENTANYL TOXICITY COMPLICATING A CARDIOMYOPATHY								
	TEMAZEPAM, FENTANYL AND OXYCODONE INTOXICATION								
	HYDROCODONE,TRAMADOL,MORPHINE, FENTANYL, GABAPENTIN								
	METHOCARBAMOL, GABAPENTIN, TRAZODONE, DIAZEPAM, FETANYL, OXYCODONE, FLUOXETINE								

Medication-Assisted Treatments

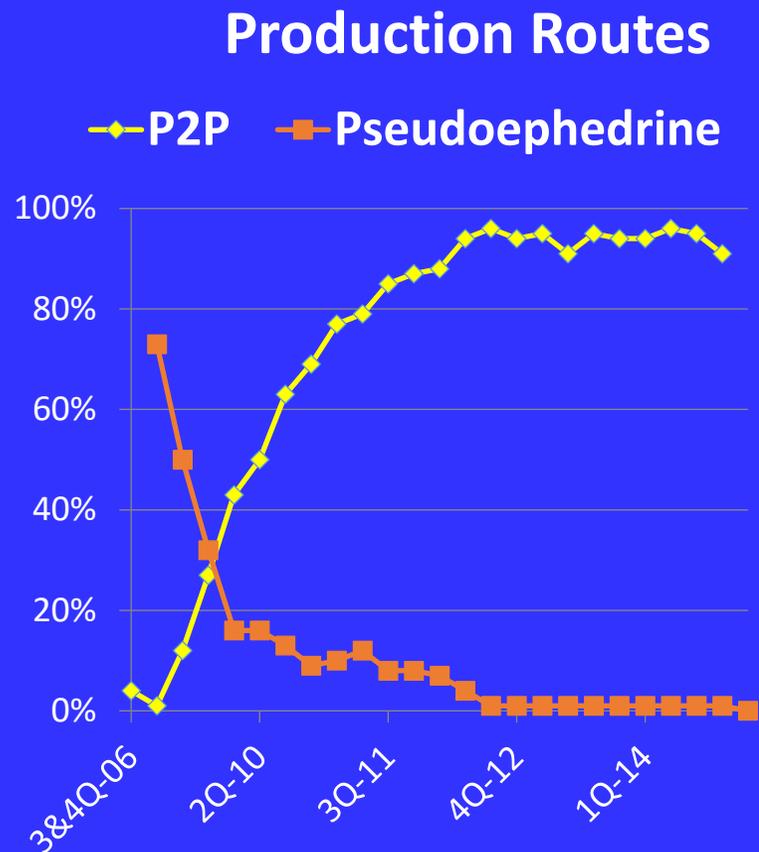
FDA approved for Opiates

- Methadone-daily oral dose
- Buprenorphine-daily pill or film
 - Duo (Suboxone© is buprenorphine & naloxone partial agonist-causes withdrawal if use opioids)
 - Mono (buprenorphine--Subutex©)
- Naltrexone (Revia©) 1 pill per day
- Depo-Naltrexone (Vivitrol©)-**injected every 30 days.**

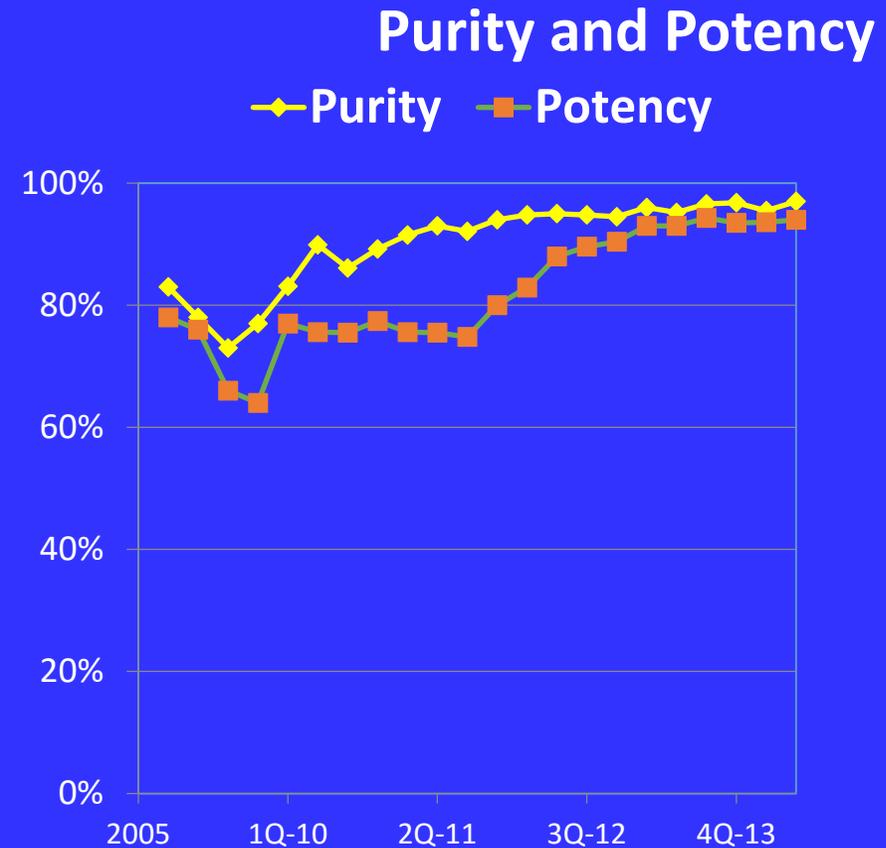
2016 Indicators of Heroin and Methamphetamine Use in Texas



DEA Methamphetamine Profiling Program: National Data 2006-2017

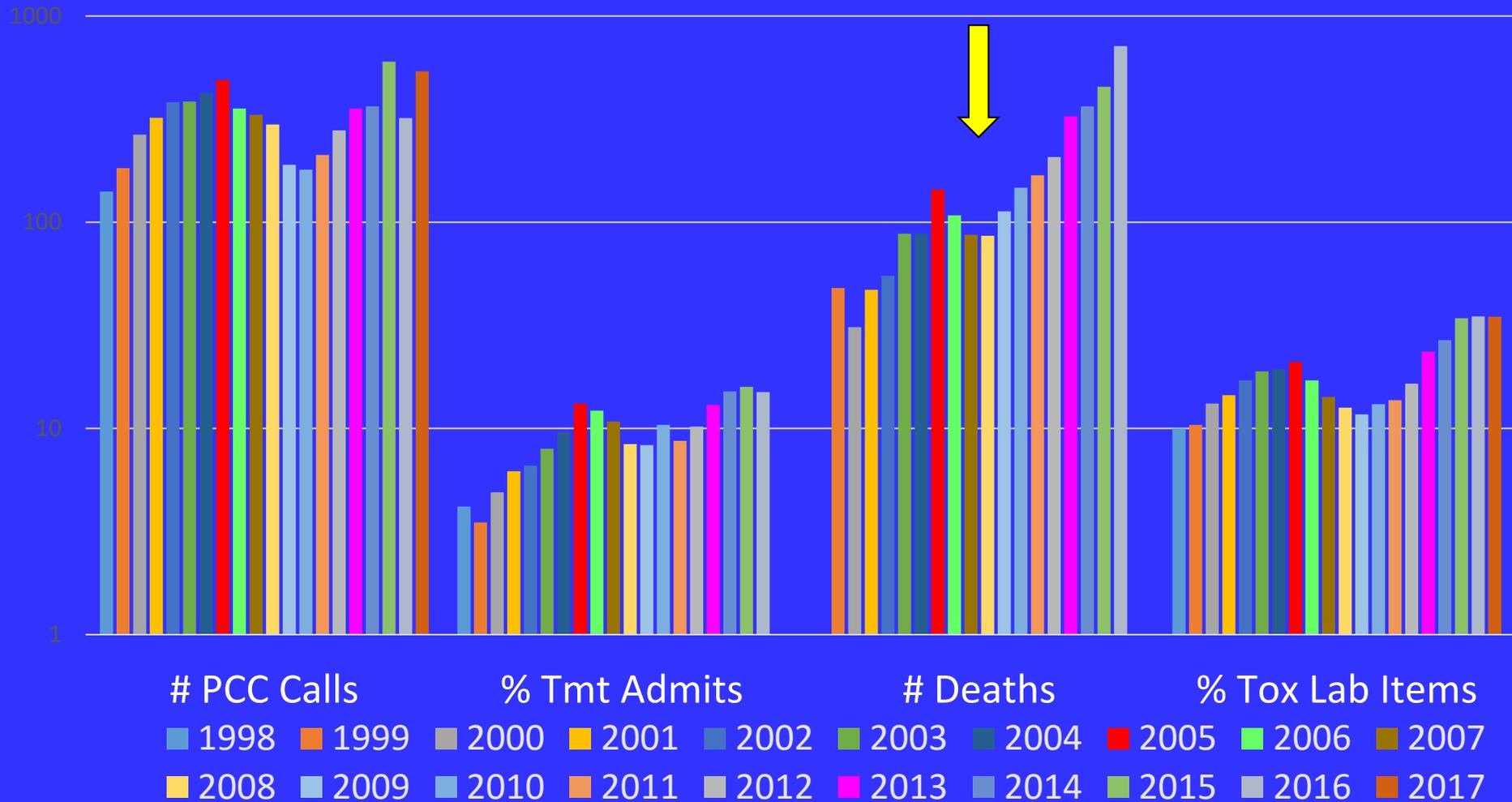


Source: DEA



*<http://www.justice.gov/dea/resource-center/meth-lab-maps.shtml>

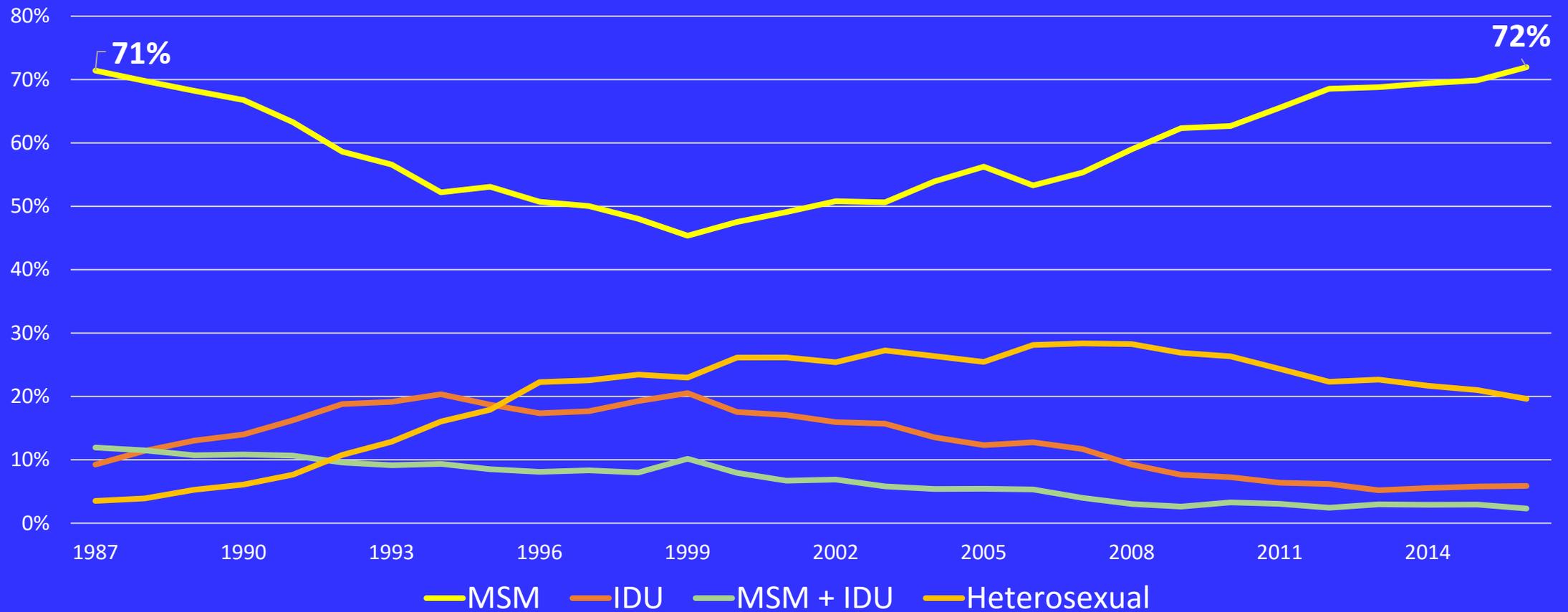
Indicators of Methamphetamine Trends in Texas: 1998-2017



Methamphetamine

- **Indicators are now at higher levels than before the ban on pseudoephedrine.**
- More crystal meth use among young MSM and high-risk heterosexual populations.
- **Meth can be brought in from Mexico as powder dissolved in water and converted to crystal in the US.**
- Areas which had traditionally been dominated by heroin now reporting increasing problems with meth and new users becoming psychotic in short period of time due to potency.

New HIV Cases in Texas by Mode of Exposure: 1987–2016



Available Behavioral Therapies for Methamphetamine

- **No FDA-approved medications for methamphetamine craving**
- **Contingency Management**
- **Cognitive Behavioral Therapy**
- **Physical Activity (Exercise-based Treatments)**
- **Treatment Approaches Targeting Cognition**

- Are we moving to a series of mini-epidemics of different kinds and potencies of heroin combined with other drugs?
- Will we need to tailor our programs based on geographic locale?
- Will there be another epidemic of cocaine and/or methamphetamine by people already in medication-assisted opiate treatment?
- Are the “good old days” of “just” heroin gone?
- Can we celebrate the glass is half-full and focus on emerging Texas drug problems?

Jane C. Maxwell, Ph.D.
Research Professor
Addiction Research Institute
Steve Hicks School of Social Work
The University of Texas at Austin
Austin, Texas
512 656-3361