Measuring Interventions to Reduce Prescription Drug Misuse, Abuse, and Diversion

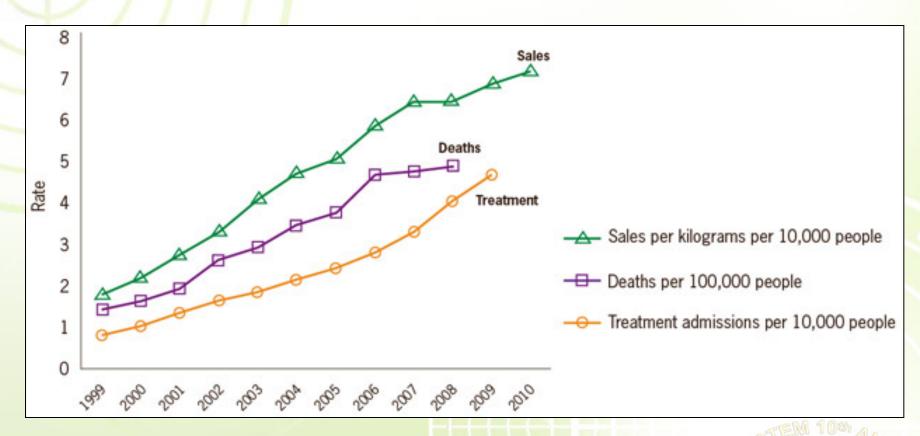
Eric Lavonas, MD

Associate Director

Rocky Mountain Poison and Drug Center Denver Health & Hospital Authority



Overdose, Addiction, and Death





Intervention Strategies

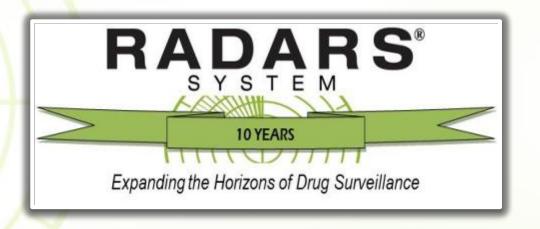
- Education
- Tracking & monitoring
 - PDMPs
- Enforcement
- Product innovations
 - Pharmacologic advances
 - Abuse-deterrent abuse-resistant formulations



Data Needed to Assess Interventions

- Up-To-Date
- Specific
 - Formulation
 - Route of administration
 - Geography
- Accounts for drug availability in the community





- Founded in 2001 by Purdue Pharma
- Since 2006, operated by the Rocky Mountain Poison and Drug Center
 - Division of the Denver Health and Hospital Authority
- Independent Scientific Advisory Board
- Monitor over 120 different products



The RADARS® System

Poison Center Acute Events
49 Centers
46 States

Drug Diversion Criminal Justice 280 investigator 50 states

Opioid Tx Program (OTP) Patients in Tx 73 programs 33 states SKIP
Survey of Key
Informant Pts

Patients in Tx 125 practices 50 states

College Survey 6000 students/yr 50 States

StreetRx www.streetrx.com Users/Buyers Crowdsource 50 states

Reformulated OxyContin

August 2010



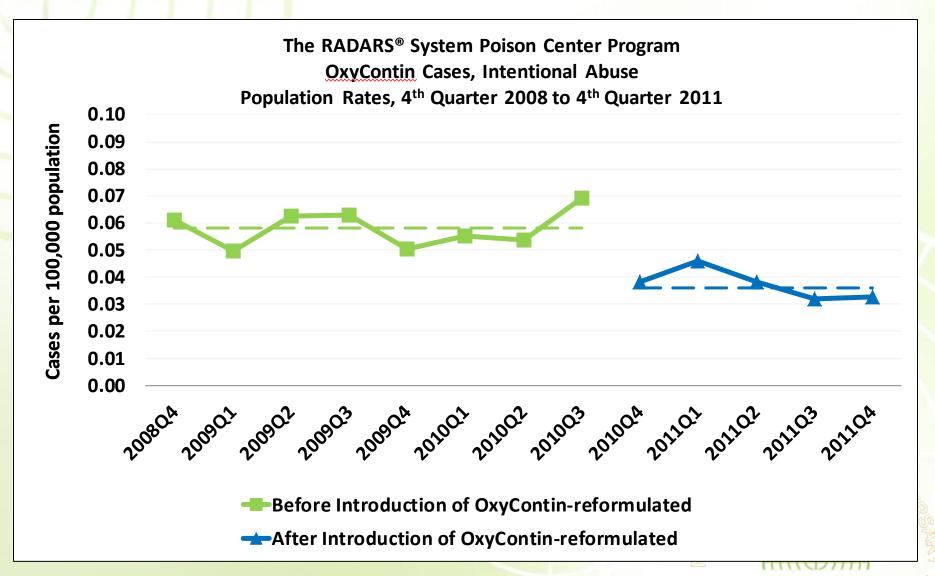
OxyContin OC



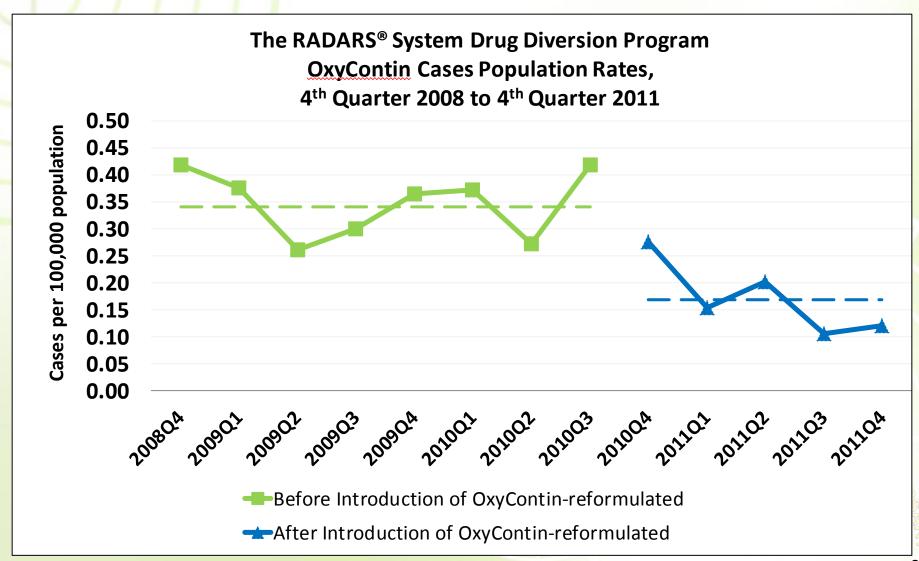
OxyContin OP



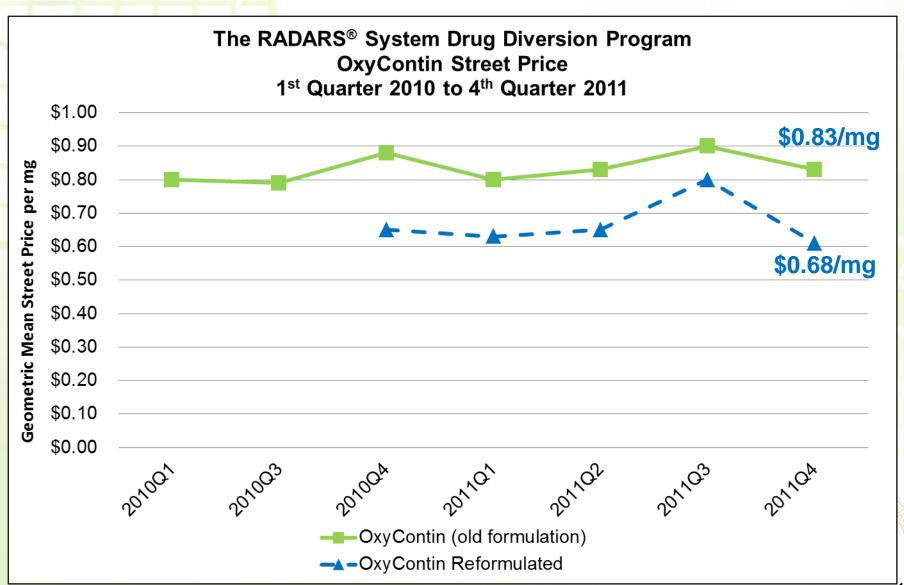
Intentional Abuse Cases Down 34%



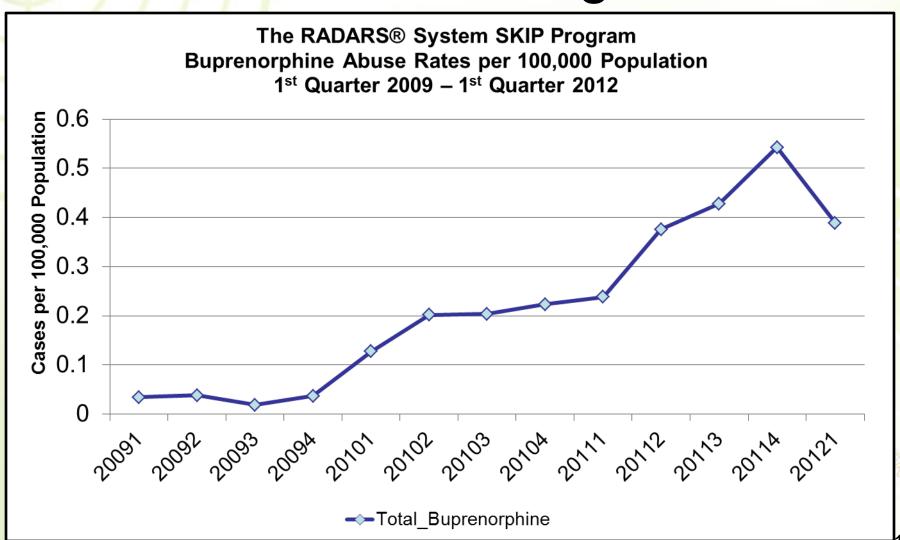
Law Enforcement Cases Down 50%



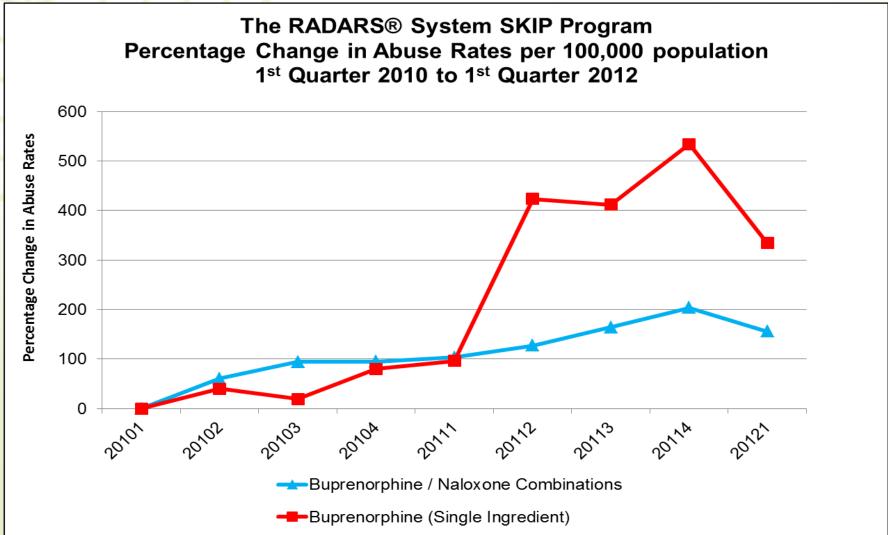
Street Price Down 18%



Buprenorphine Abuse is Increasing

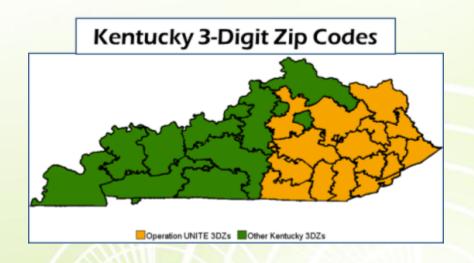


Increase is Due to Single Ingredient Products



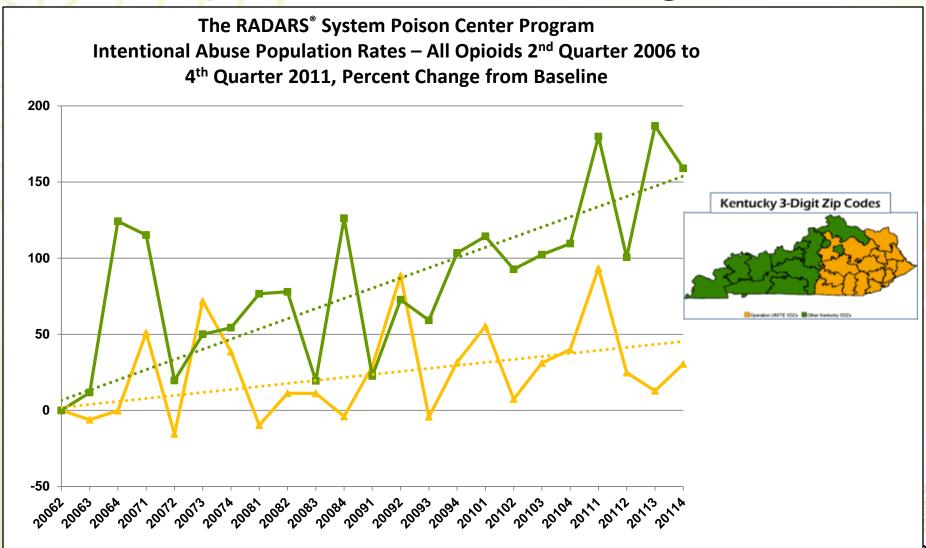
Operation UNITE

- Three-pronged intervention
 - Education
 - Enforcement
 - Treatment



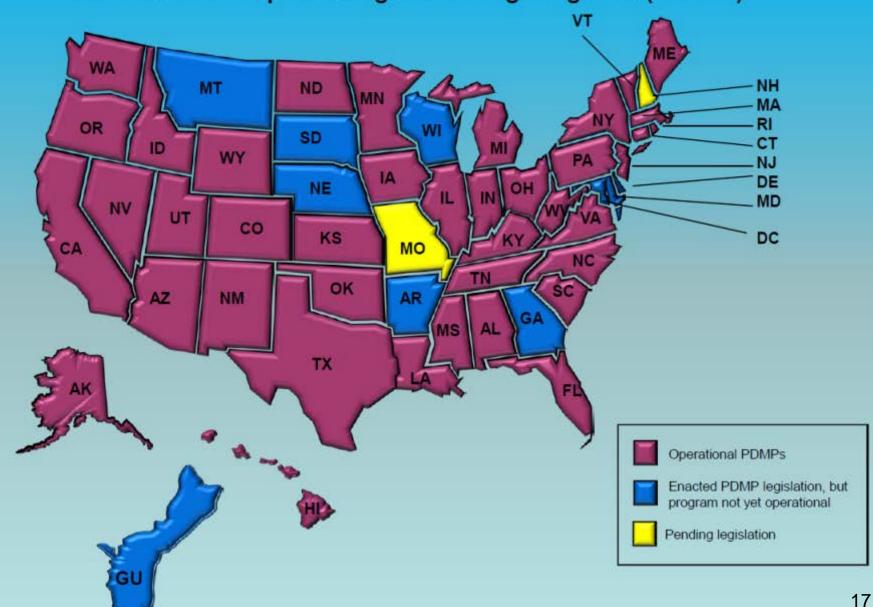


Rise in Abuse Less in Operation UNITE Region

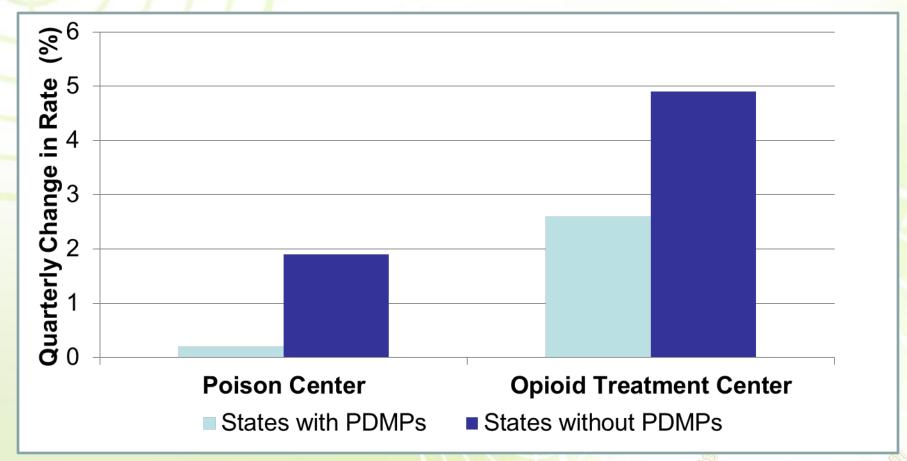




Status of Prescription Drug Monitoring Programs (PDMPs)



Rise in Abuse is Attenuated in States with PDMPs



^{*} All increases are percent increases per quarter, exponential, adjusted for population and unique recipients of a dispensed drug (URDD)

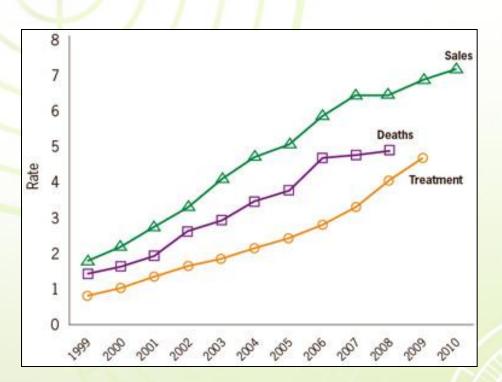


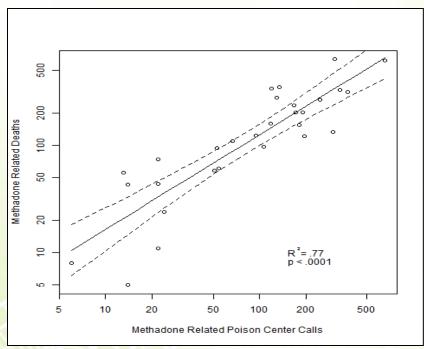
RADARS® System Summary

- 10 years of data
 - Maximum lag: 3 months
- Rigorous and independent
- Multifaceted ("mosaic") approach
 - Diversion & illicit sale
 - Addiction
 - Abuse / misuse
 - Medical outcomes
- Product Specificity
 - Over 120 products of interest



Future Development







International Initiatives

- Global Poison Center program
- EUROPAD pilot



RADARS®

10 YEARS

Expanding the Horizons of Drug Surveillance

