# Abuse Deterrent Reformulation of Controlled Release Oxycodone is Associated with Persistently **Declining Rates of Abuse and Diversion By Both Oral and Non-oral Routes** Iwanicki JL, Severtson SG, Green JL, Besharat AC, Dart RC

- abuse and addiction.
- quickly (Figure 1).
- progression down this pathway.
- reformulation after its introduction in August 2010.

# Methods

- Data from four Researched Abuse, Diversion, and Addiction-Related Surveillance (RADARS®) System Programs were used.
- The average quarterly rates of diversion and abuse for OxyContin were compared one year prior to reformulation to rates in the 4th quarter of 2014.
- The change in rates were compared to the change in rates for other opioid tablets and capsules during the same time frame.
- Other opioids included immediate release (IR) oxycodone, IR and extended release (ER) hydrocodone, IR and ER morphine, IR and ER hydromorphone, IR oxymorphone, IR and ER tramadol, and IR and ER tapentadol.
- Rates were adjusted for population and drug utilization through retail channels using the number of prescriptions dispensed.

- opioids.
- (Figure 2).
- only 21.6% (Figure 2).
- by 30.0% (Figure 2).
- other opioids declined by 22.3% (Figure 2).
- Abuse through both oral and non-oral routes of self-administration declined.

The RADARS® System is supported by subscriptions from pharmaceutical manufacturers for surveillance, research and reporting services. RADARS System is the property of Denver Health and Hospital Authority, a political subdivision of the State of Colorado. Denver Health retains exclusive ownership of all data, databases and systems. Subscribers do not participate in data collection or analysis, nor do they have access to the raw data.



### Figure 2. Diversion and Abuse of Oxycodone in the United States Before and After Reformulation



# Conclusions

diversion that were greater than those observed for other opioids. The decreased

overuse to other unintended routes of abuse such as snorting and injecting (Figure



