Unintentional Exposures to Buprenorphine/Naloxone Tablets and Oral Film Among Children Less Than Six Years Old October 2010 Through June 2015

Background

- to buprenorphine/naloxone tablets after adjustment for drug availability.
- However, since these studies were conducted significant changes in the buprenorphine/naloxone tablet market have occurred.
- We examined rates of unintentional exposures to buprenorphine/naloxone film and 2 comparators reported to poison centers in children aged less than 6 years, adjusting for drug availability.

Methods

- Pediatric (less than 6 years) unintentional general exposures to buprenorphine/naloxone oral film, Diversion, and Addiction-Related Surveillance (RADARS®) System Poison Center Program from October 2010 to June 2015 were analyzed.
- The number of exposures in each drug group and quarter were adjusted for drug availability using number of unique recipients of dispensed drug (URDD), scaled per 10,000 URDD.
- Poisson regression analysis with drug specific dispersion parameters was used to compare differences in intercepts (expected rate in 2015Q2) and slopes (quarterly changes over time).

Results

- URDD, 95% CI: 3.13-4.53) (Table 1).
- On average, the rate for buprenorphine/naloxone film increased by 2% (p=0.043) each quarter, the rate for single-entity buprenorphine tablet decreased 1% (p=0.199) per quarter, and the rate for buprenorphine/naloxone tablets decreased by 4% (p<0.001) each quarter.
- single-entity buprenorphine tablet (p=0.018) and buprenorphine/naloxone tablet rates (p<0.001).

Conclusions

less frequent than exposures to buprenorphine/naloxone tablets after adjustment for drug availability.

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• Previous findings, over the period of 2010-2013, demonstrate that among children aged less than 6 years unintentional exposures to buprenorphine/naloxone oral film are less frequent than exposures

buprenorphine/naloxone tablets, and single-entity buprenorphine tablets in the Researched Abuse,

• The expected buprenorphine/naloxone film rate in 2015Q2 (1.11/10,000 URDD, 95% CI: 0.94-1.30) was significantly less (p<0.001) than the expected rates in 2015Q2 for single-entity buprenorphine tablets (2.68/10,000 URDD, 95% CI: 2.28-3.14) and buprenorphine/naloxone tablets (3.77/10,000

• The change in the buprenorphine/naloxone film rate was significantly greater than the change in the

• Consistent with previous research, unintentional exposures to buprenorphine/naloxone oral film are





Figure 1. Unintentional Exposures for Children Less than Six Years per 10,000 URDD



Unintentional Exposures for Children Less than Six Years per 10,000 URDD

Drug Group	Expected Rate in 2015Q2 (95% CI)	Rate Ratio (95% CI), p-value	% Change in Slope (95% CI), p-value	Difference in Slopes, p-value
Buprenorphine/naloxone	1.11		1.02	
films	(0.94, 1.30)		(1.00, 1.04), 0.043	
Single-entity	2.68	2.42	0.99	0.018
buprenorphine tablets	(2.28, 3.14)	(1.92, 3.03), <0.001	(0.97, 1.01), 0.199	
Buprenorphine/naloxone	3.77	3.40	0.96	<0.001
tablets	(3.13, 4.53)	(2.66, 4.34), <0.001	(0.95, 0.98), <0.001	

Table 1. Estimated Rates and Slopes for