

2016

Annual KASPER Threshold Analysis Report



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Public Health
6/30/2016

Introduction

The Kentucky All Schedule Prescription Electronic Reporting (KASPER) System Annual Threshold Analysis Report provides controlled substance prescription dispensing rates by age group, gender, and geographic location, based on the KASPER data for calendar year 2016. This report includes state-level analysis for all dispensed Schedule II through V controlled substances, opioids and Schedule II stimulant classes, and five specific substances: alprazolam, buprenorphine/naloxone combination, hydrocodone, methadone, and oxycodone.

Regional-level analysis is based on the fifteen Area Development Districts (ADDs) of Kentucky. At this geographical unit, dispensing rates are provided for four specific substances: alprazolam, hydrocodone, oxycodone, and buprenorphine/naloxone combination.

This report was produced as part of the Kentucky Drug Overdose Prevention Program under cooperative agreement 1U17CE002732-01 between the Kentucky Injury Prevention and Research Center as bona fide agent for the Kentucky Department of Public Health and the Centers for Disease Control and Prevention, in collaboration with KASPER and with the support of the Kentucky Cabinet for Health and Family Services.

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Executive Summary

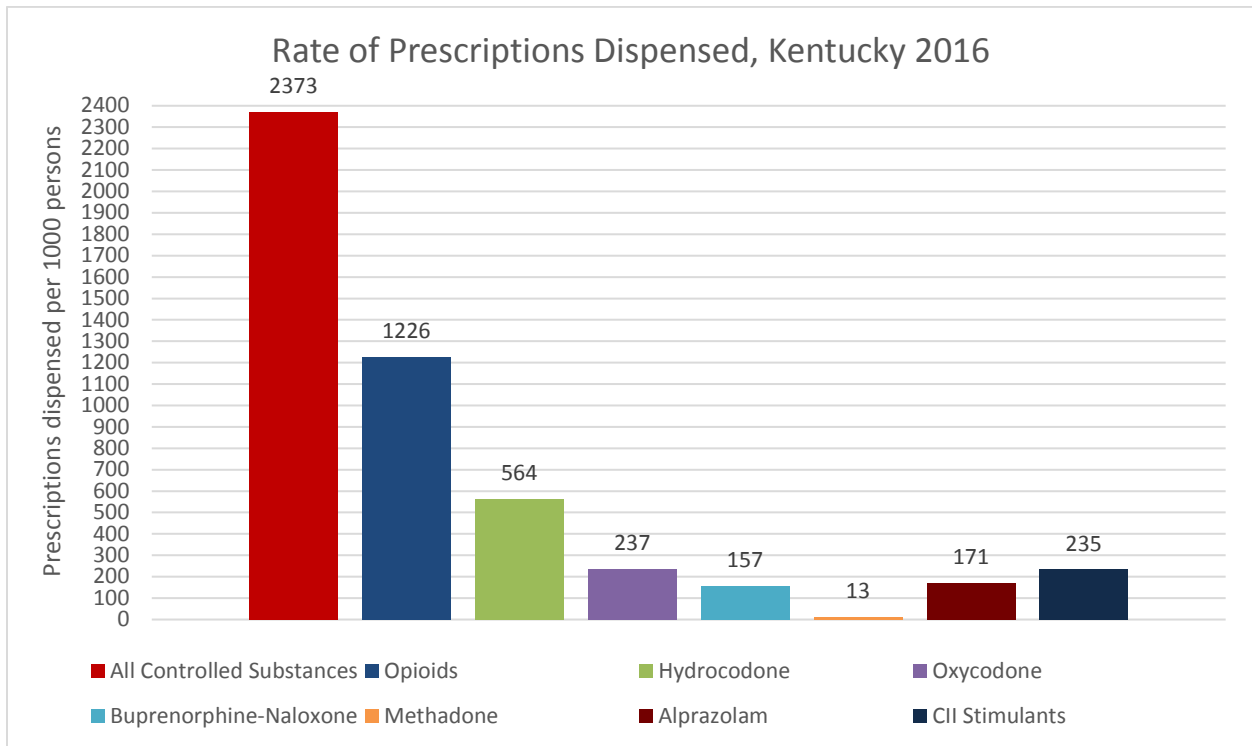
1. In Kentucky in 2016, Schedule II-V controlled substance prescriptions were dispensed at the rate of 2,373 prescriptions per 1,000 Kentuckians. At the dispensing rate of 1,226 prescriptions per 1,000, opioid prescription dispensing is responsible for over one-half of the Schedule II-V controlled substance dispensing rate.
2. After age 16 years old, females were dispensed Schedule II-V controlled substances at higher rates than males. Females aged 55 to 64 years had the highest Schedule II-V controlled substance dispensing rate at 4,399 prescriptions per 1,000 Kentucky females. Persons ages 55 to 64 years are dispensed controlled substances than any other age group at the rate of 4,005 prescriptions per 1,000 persons.
3. Females of all ages were dispensed opioids at higher rates than males. The highest opioid dispensing rates were for females ages 55 to 64 years at 2,190 prescriptions per 1,000 females and for males ages 55 to 64 years at 2,135 prescriptions per 1,000 males.
4. Hydrocodone prescriptions were dispensed to females of all ages at higher rates than males. The highest dispensing rate was for females ages 55 to 64 years at 1,088 prescriptions per 1,000 females.
5. Females ages 17 to 54 years were dispensed oxycodone prescriptions at higher rates than males the same age. Males ages 55 years and older were dispensed oxycodone prescriptions at higher rates than females the same age. The highest dispensing rates for oxycodone prescriptions were to males ages 55 to 64 years at the rate of 530 prescriptions per 1,000 males and to females ages 55 to 64 years at the rate of 492 prescriptions per 1,000 females.
6. Males of all ages were dispensed methadone prescriptions at higher rates than females the same age. Methadone dispensing rates were highest for males ages 55 to 64 years at the rate of 38.2 prescriptions per 1,000 males.
7. Buprenorphine-naloxone prescriptions were dispensed at the highest rates from males and females ages 25 to 44 years. The highest dispensing rate was for males ages 35 to 44 years at the rate of 503 prescriptions per 1,000 males.
8. The highest dispensing rate for alprazolam prescriptions was for persons ages 65 years and over at the rate of 360 prescriptions per 1,000 persons. Females over the age of 17 years have higher rates of alprazolam dispensing than males. The highest rates are for females ages 65 years and older at the rate of 449 prescriptions dispensed per 1,000 females.
9. Schedule II stimulant prescriptions (i.e. Ritalin and Adderall) were dispensed at the highest rates for males ages 0 to 16 years at the rate of 765 prescriptions per 1,000 males.

10. In 2016, there were regional differences in the rates of alprazolam, hydrocodone, oxycodone and buprenorphine/naloxone. Rates were calculated for each of Kentucky's fifteen Area Development Districts (ADDs).
- The highest alprazolam dispensing rates were in the Kentucky River ADD district (271 prescriptions dispensed per 1,000 ADD residents), Cumberland Valley ADD (266 prescriptions dispensed per 1,000 ADD residents), and Purchase ADD (245 prescriptions dispensed per 1,000 ADD residents). The lowest alprazolam dispensing rate was in the Northern Kentucky ADD (91 prescriptions dispensed per 1,000 ADD residents).
 - The highest hydrocodone dispensing rates were in the Kentucky River ADD (1,089 prescriptions dispensed per 1,000 ADD residents), Big Sandy ADD (985 prescriptions dispensed per 1,000 ADD residents), and Cumberland Valley ADD (938 prescriptions dispensed per 1,000 ADD residents). The lowest hydrocodone dispensing rate was in the Northern Kentucky ADD (256 prescriptions per 1,000 ADD residents).
 - The highest oxycodone dispensing rates were in Kentucky River ADD (370 prescriptions dispensed per 1,000 ADD residents), Northern Kentucky ADD (310 prescriptions per 1,000 ADD residents), and Gateway ADD (279 prescriptions dispensed per 1,000 ADD residents). The lowest oxycodone dispensing rate was in the Barren River ADD (166 prescriptions dispensed per 1,000 ADD residents).
 - The highest buprenorphine-naloxone dispensing rates were in the Kentucky River ADD (669 prescriptions dispensed per 1,000 ADD residents), Big Sandy ADD (488 prescriptions dispensed per 1,000 ADD residents), and Gateway ADD (386 prescriptions dispensed per 1,000 ADD residents). The lowest buprenorphine-naloxone dispensing rate was in the Green River ADD at 33 prescriptions/1,000 ADD residents.
11. For Kentucky, there were significant changes in dispensing rates between 2015 and 2016.
- There were significant decreases across all age and gender groups in the dispensing rate for opioids excluding buprenorphine-naloxone. The largest percentage of decrease in the opioid, excluding buprenorphine-naloxone, was for males ages 25 to 34 years from 601 prescriptions per 1,000 males in 2015 to 499 prescriptions per 1,000 males in 2016 (17% decrease).
 - Dispensing rates for alprazolam decreased across all age and gender groups except for males ages 17 to 24 years. The largest percentage decrease in alprazolam prescriptions dispensed was for males ages 25 to 34 years from 55 prescriptions per 1,000 males in 2015 to 45 prescriptions per 1,000 males in 2016 (18.3% decrease).
 - Except for ages 17 to 24 years, all other adult age and gender groups saw significant increases in the dispensing rate for buprenorphine-naloxone. The largest percentage of increase in the rate of dispensing was for males ages 65 years and older from 5 prescriptions per 1,000 males in 2015 to 8 prescriptions per 1,000 males in 2016 (43.7% increase).

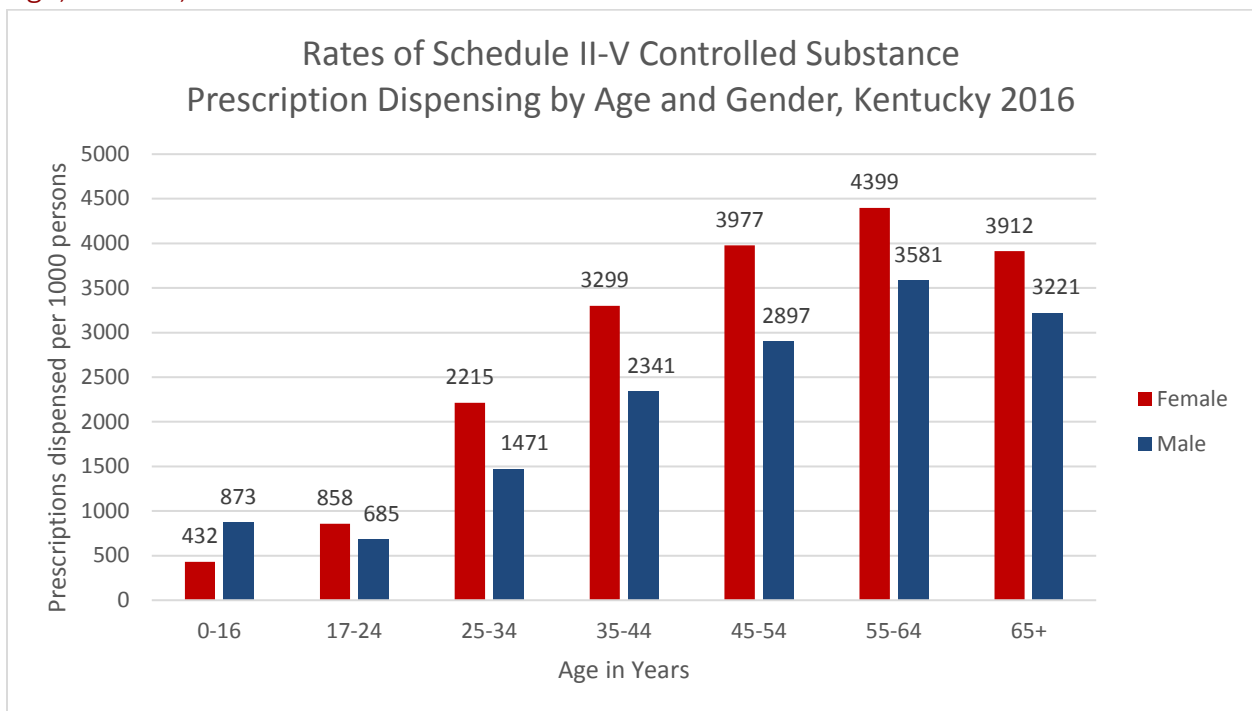
- d. Dispensing rates for Schedule II stimulant prescriptions increased significantly from 2015 to 2016 for all age and gender groups. The largest percentage of increase in dispensing rate was for males ages 35 to 44 years from 135 prescriptions per 1,000 males in 2015 to 153 prescriptions per 1,000 males in 2016 (13.4% increase).
12. Significant changes in dispensing rates for hydrocodone, oxycodone, and buprenorphine-naloxone from 2015 to 2016 were seen in all fifteen ADDs. Twelve ADDs saw significant changes in alprazolam dispensing rates.
- a. Hydrocodone dispensing rates significantly decreased from 2015 to 2016 in all ADDs. The largest percentage decrease was in the Northern Kentucky ADD where the hydrocodone dispensing rate decreased from 285 prescriptions per 1000 ADD residents in 2015 to 256 prescriptions per 1,000 ADD residents (10% decrease).
 - b. Oxycodone dispensing rates significantly decreased from 2015 to 2016 in seven ADDs with the largest percentage decrease occurring in the Bluegrass ADD (4.1% decrease). Oxycodone dispensing rates significantly increased in eight ADDs with the largest percentage increase occurring in the Purchase ADD (11% increase).
 - c. Dispensing rates for buprenorphine-naloxone significantly increased across all ADDs with the largest percentage of increase occurring in the Barren River ADD (44% increase).
 - d. Significant decreases in alprazolam dispensing rates occurred in twelve of the fifteen ADDs. The largest percentage decrease occurred in the Lake Cumberland ADD (15.6% decrease).

Dispensing in Kentucky

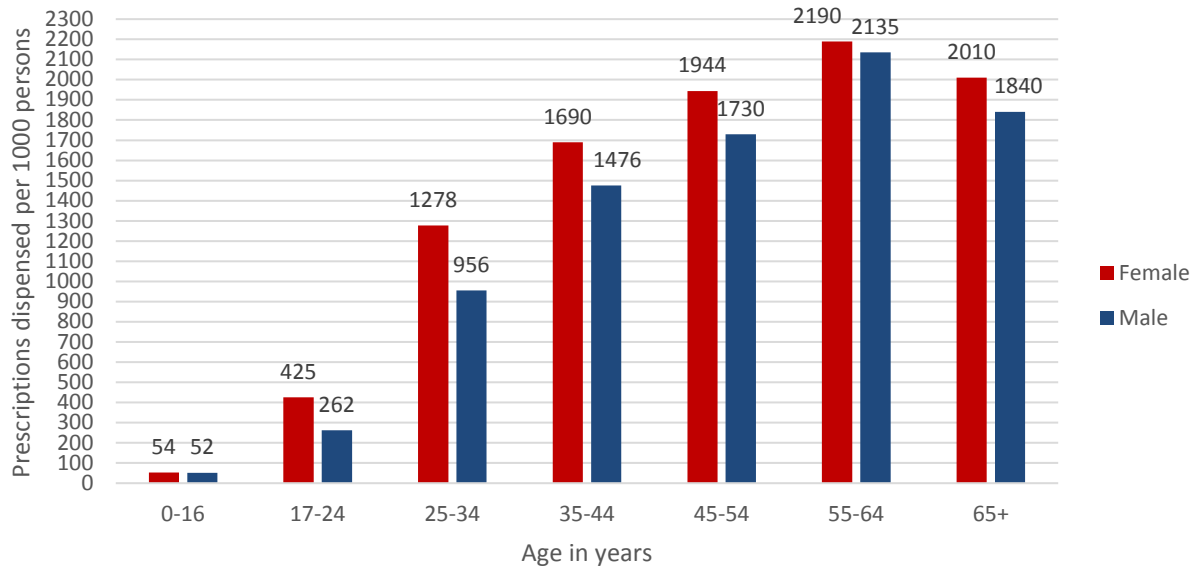
Schedule II-V Controlled Substances



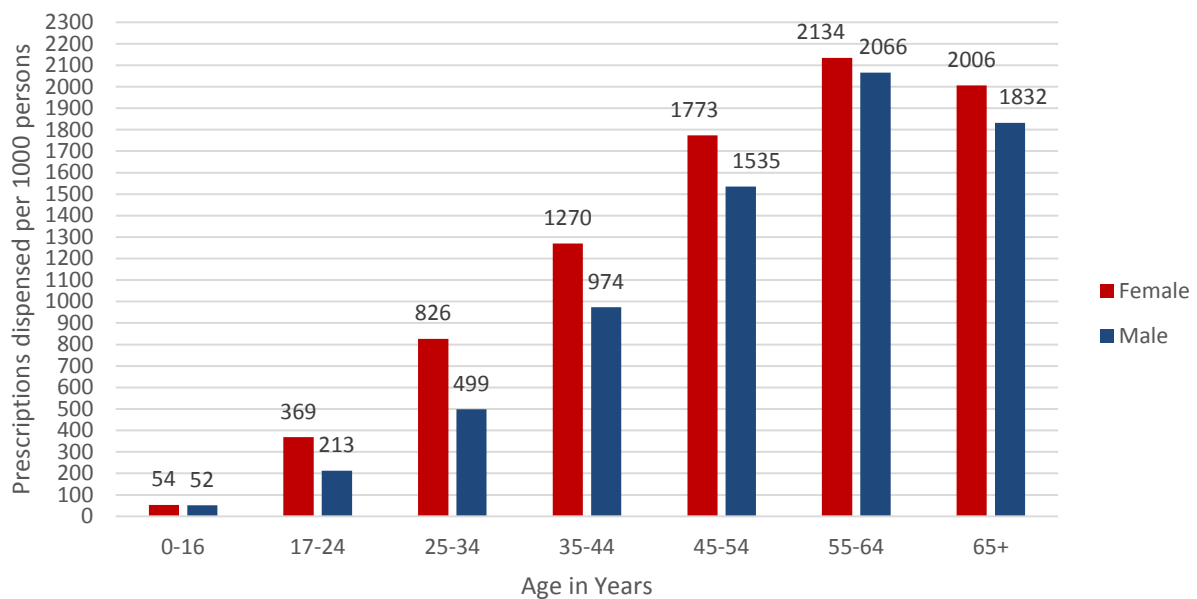
Age, Gender, and Substance



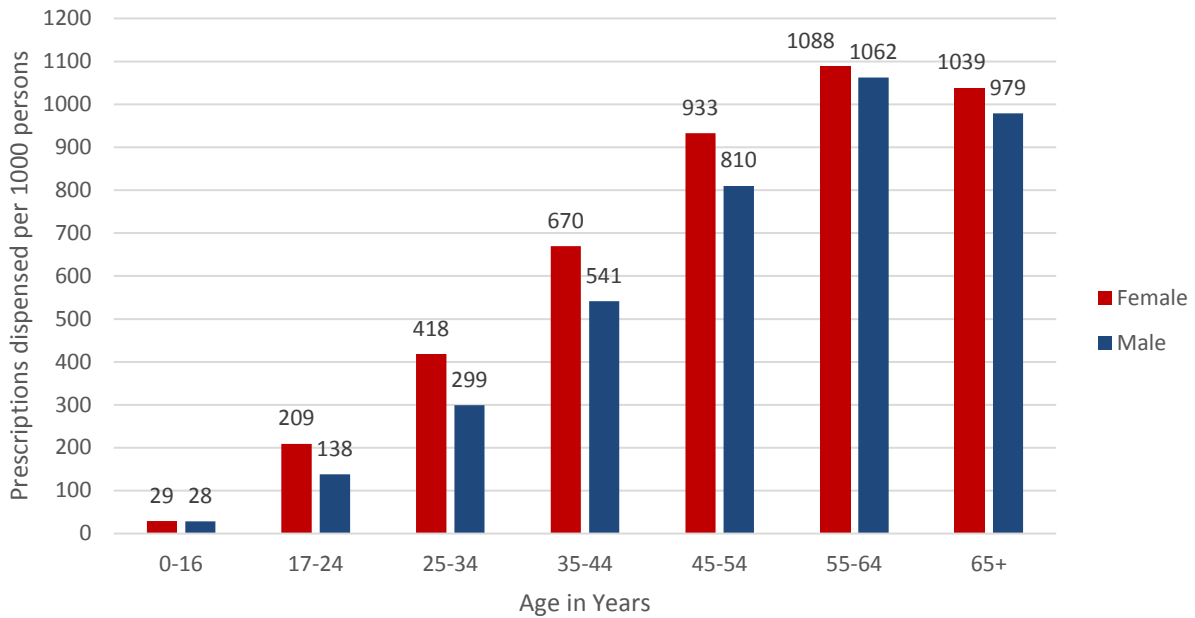
Rate of Opioid Prescriptions Dispensed by Age and Gender, Kentucky 2016



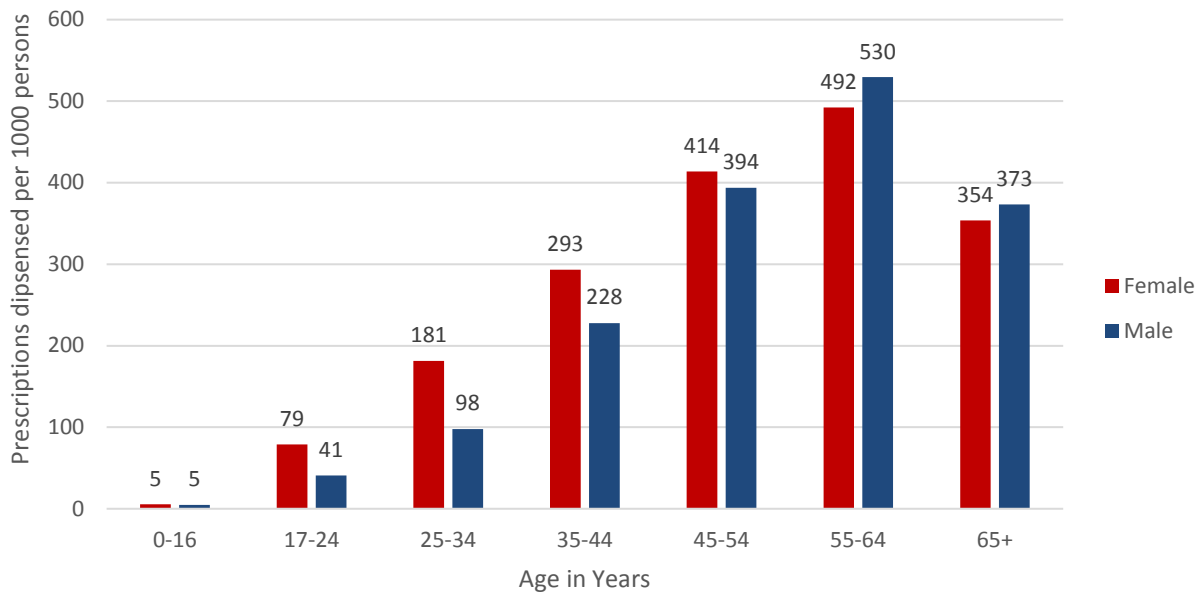
Rates of Opioid Prescriptions Dispensed, Excluding Buprenorphine-Naloxone, by Age and Gender, Kentucky 2016



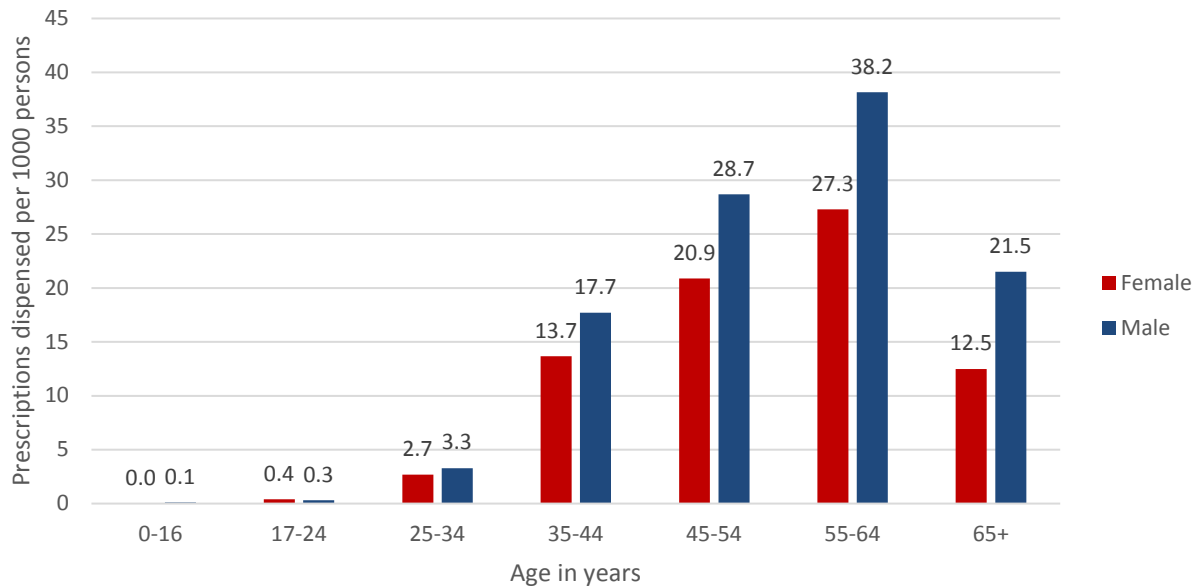
Rate of Hydrocodone Prescriptions Dispensed by Age and Gender, Kentucky 2016



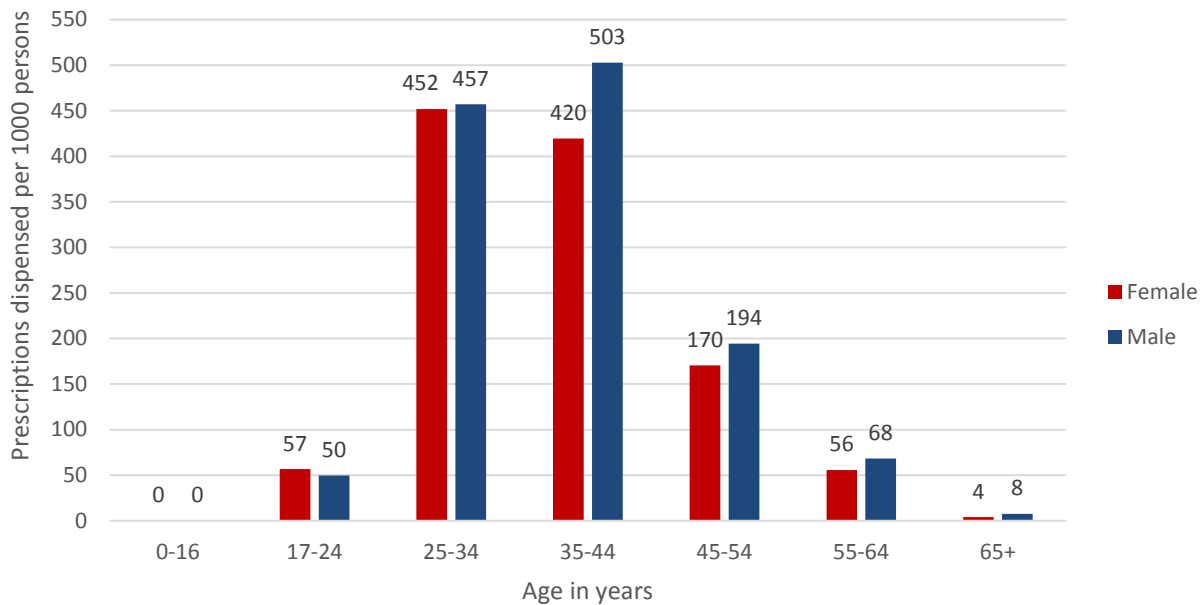
Rate of Oxycodone Prescriptions Dispensed by Age and Gender, Kentucky 2016



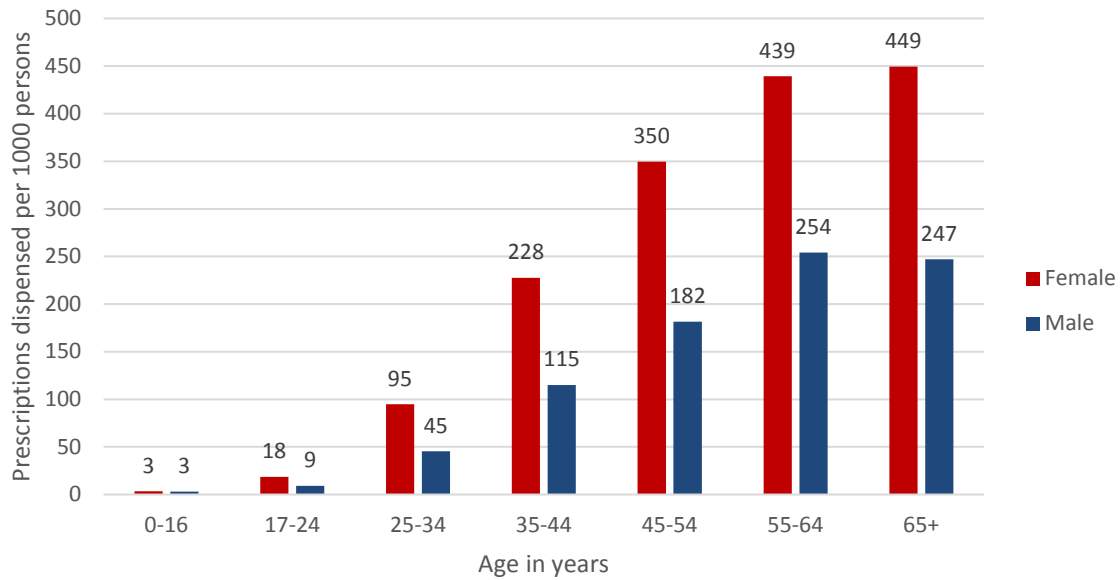
Rate of Methadone Prescriptions Dispensed
by Age and Gender, Kentucky 2016



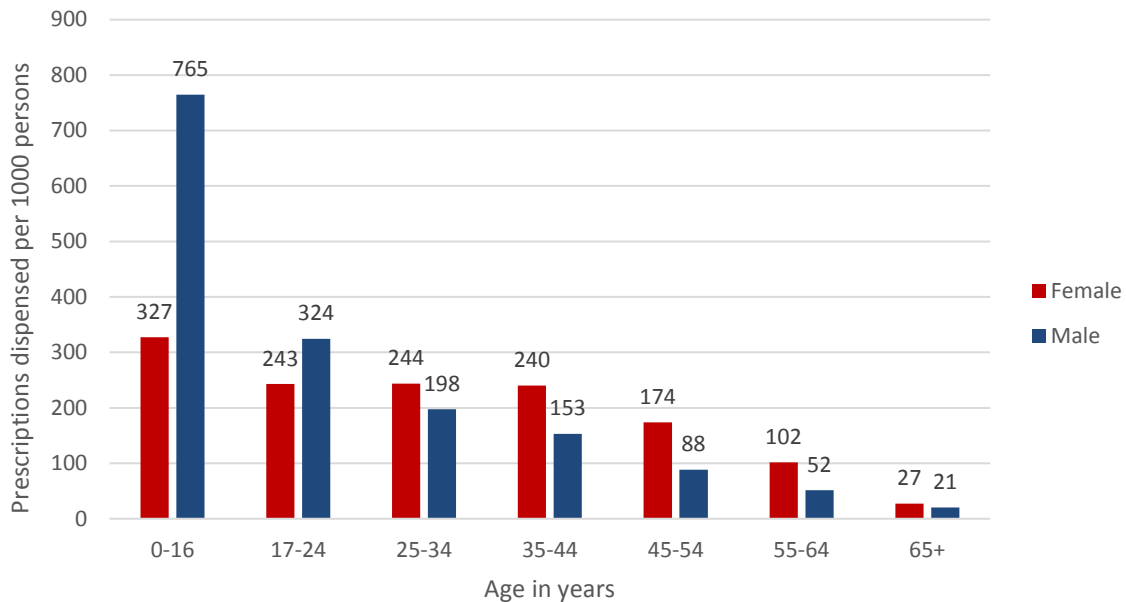
Rate of Buprenorphine-Naloxone Prescriptions
by Age and Gender, Kentucky 2016



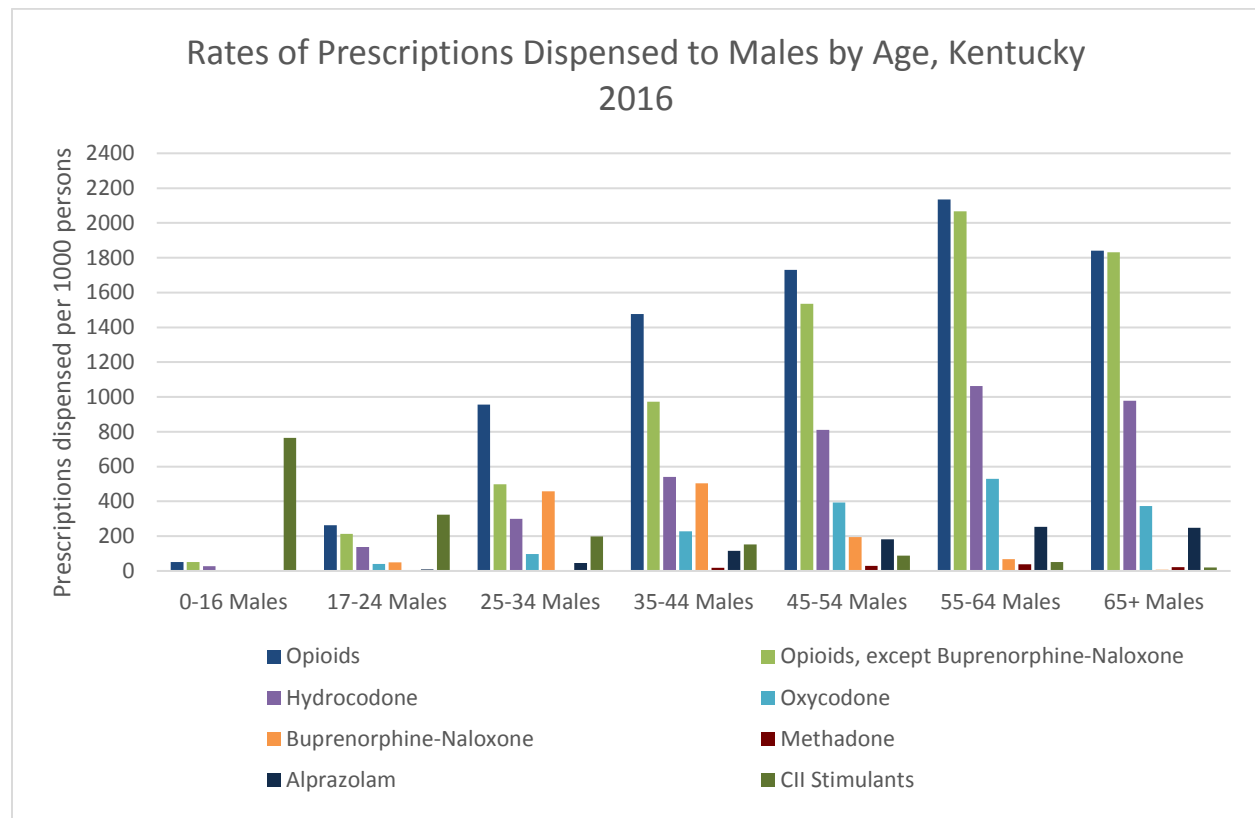
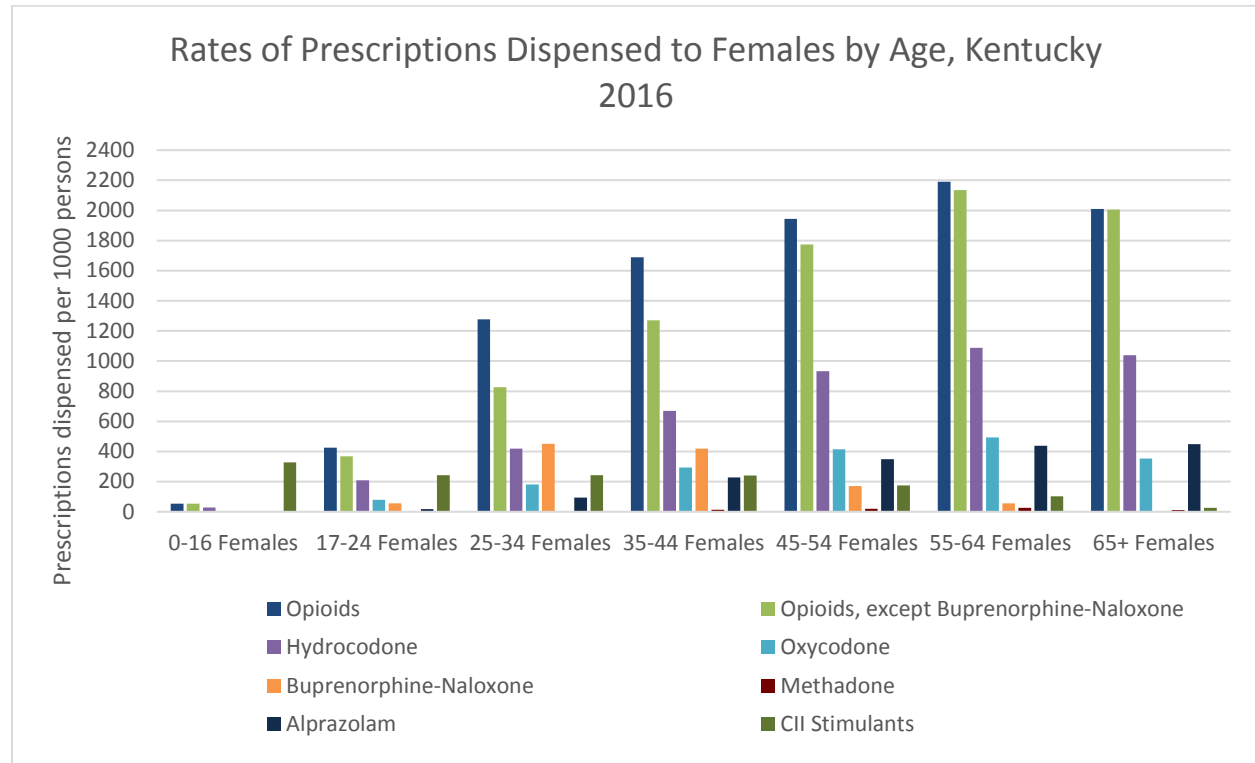
Rate of Alprazolam Prescriptions Dispensed
by Age and Gender, Kentucky 2016



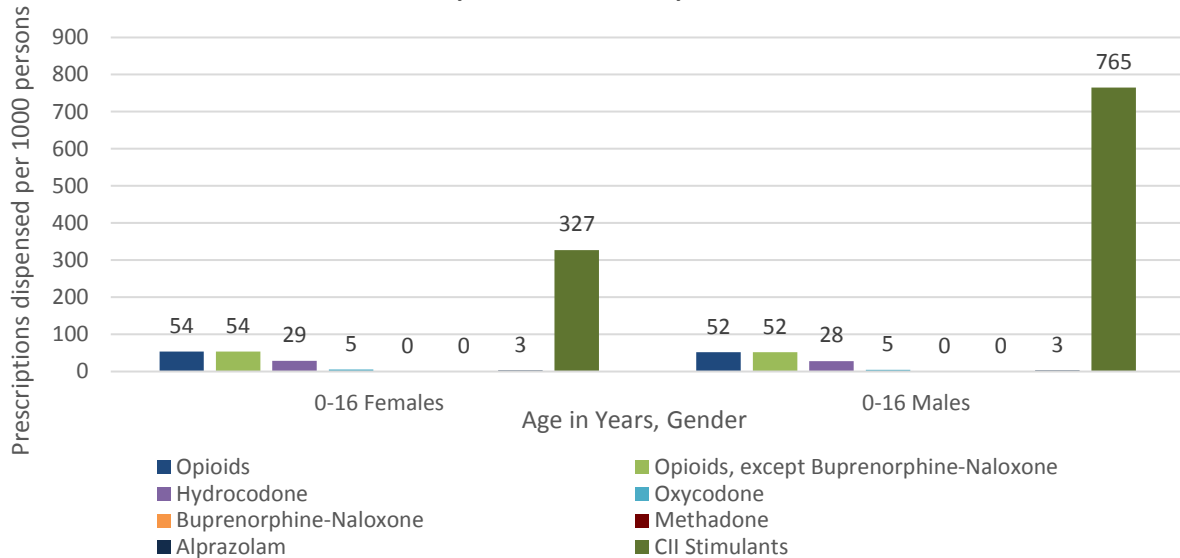
Rate of Controlled Substance Schedule II Stimulant
Prescriptions Dispensed by Age and Gender, Kentucky 2016



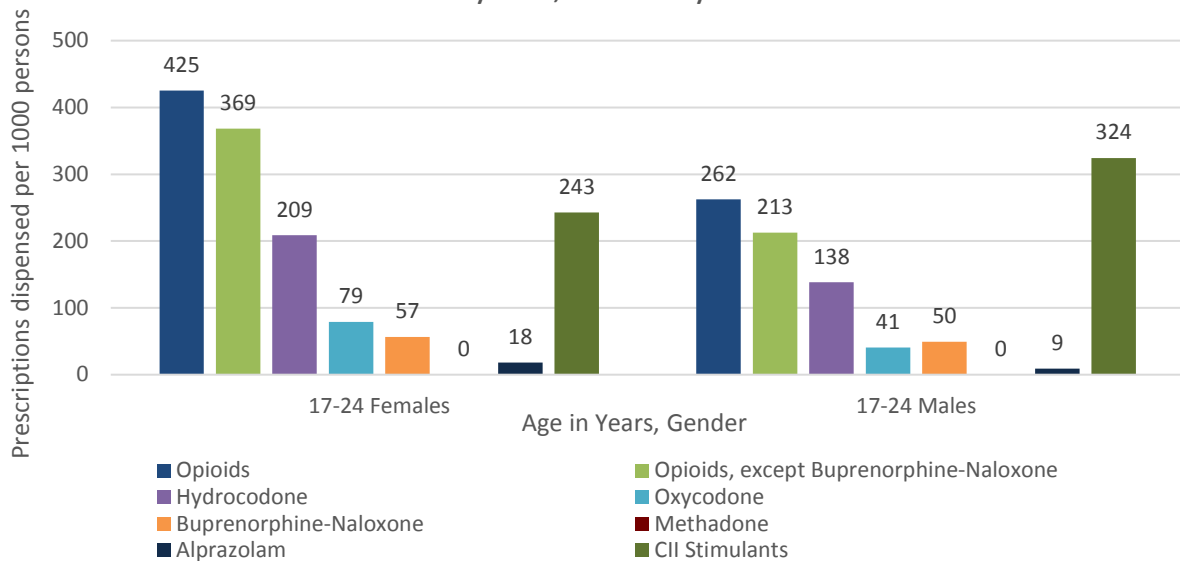
Age and Gender



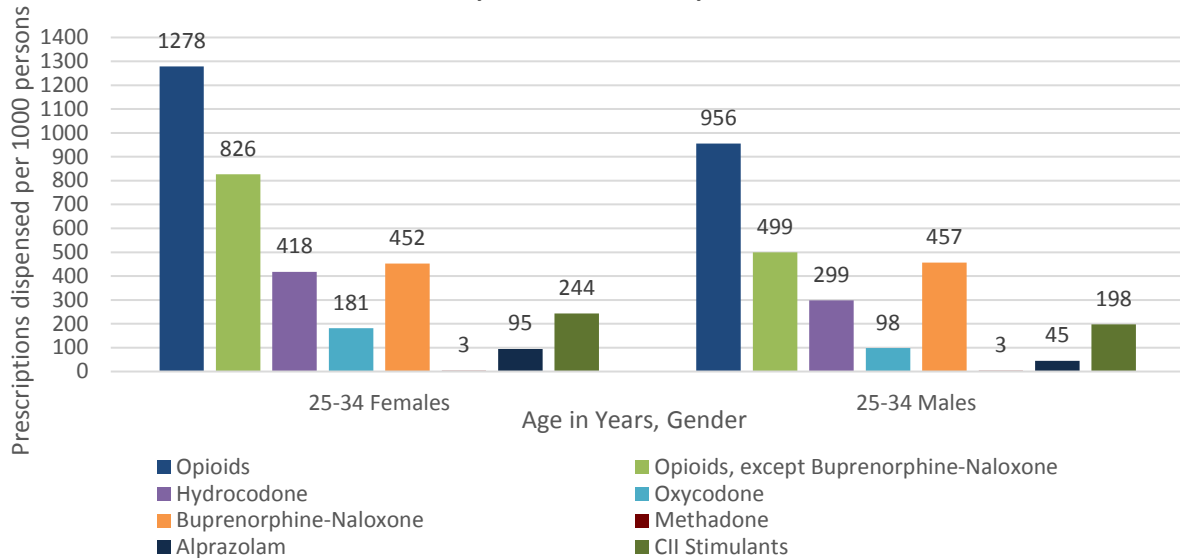
Rates of Prescriptions Dispensed to Females and Males Ages 0 to 16 years, Kentucky 2016



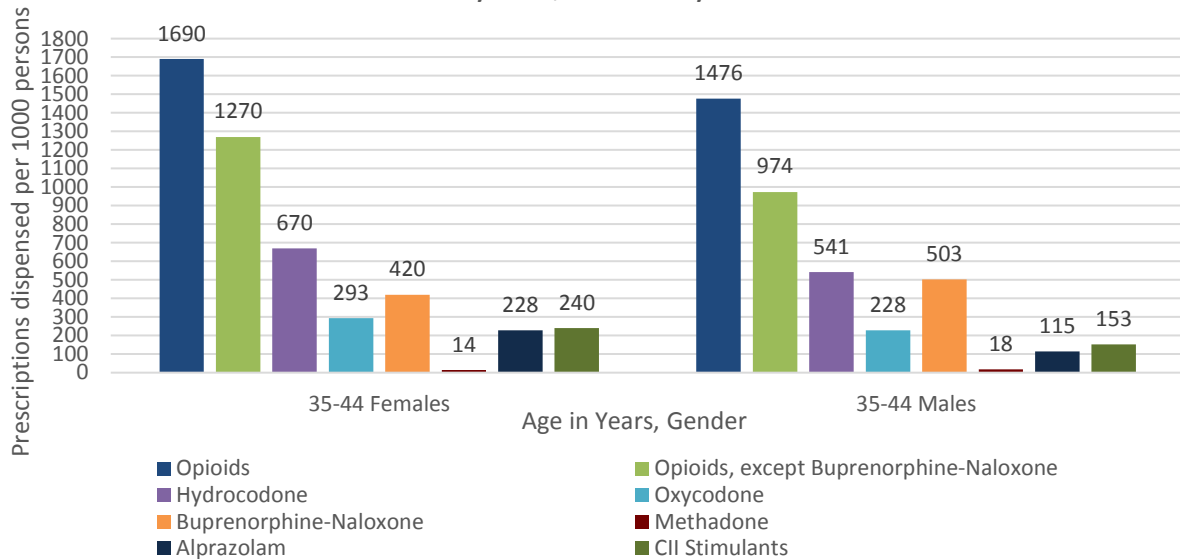
Rates of Prescriptions Dispensed to Females and Males Ages 17 to 24 years, Kentucky 2016



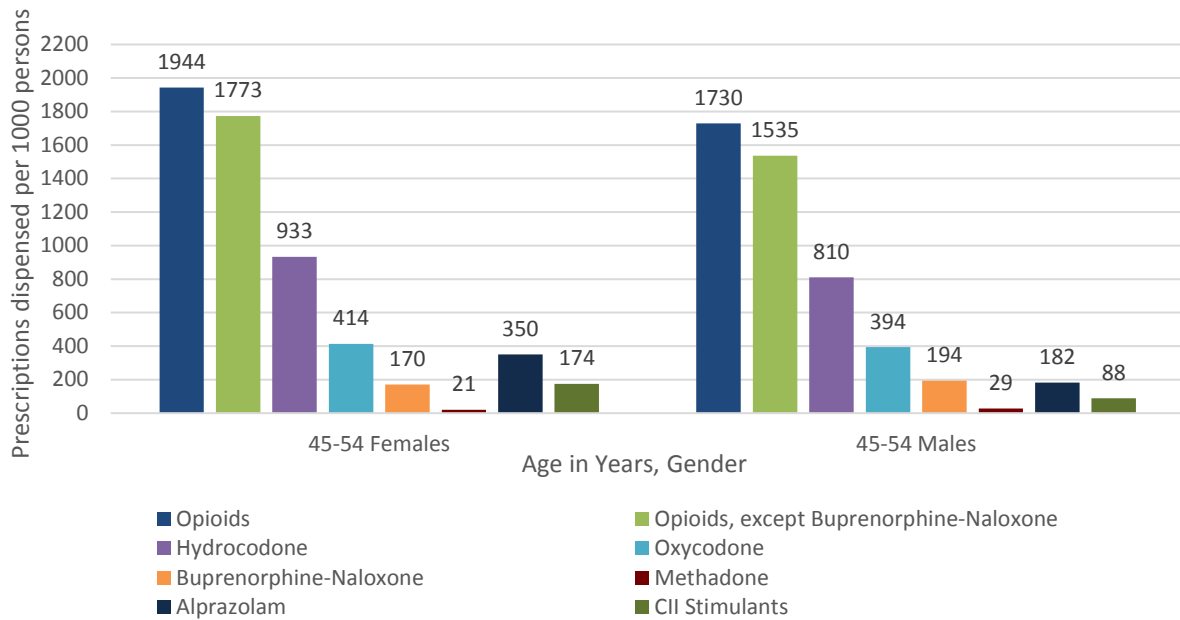
Rates of Prescriptions Dispensed to Females and Males Ages 25 to 34 years, Kentucky 2016



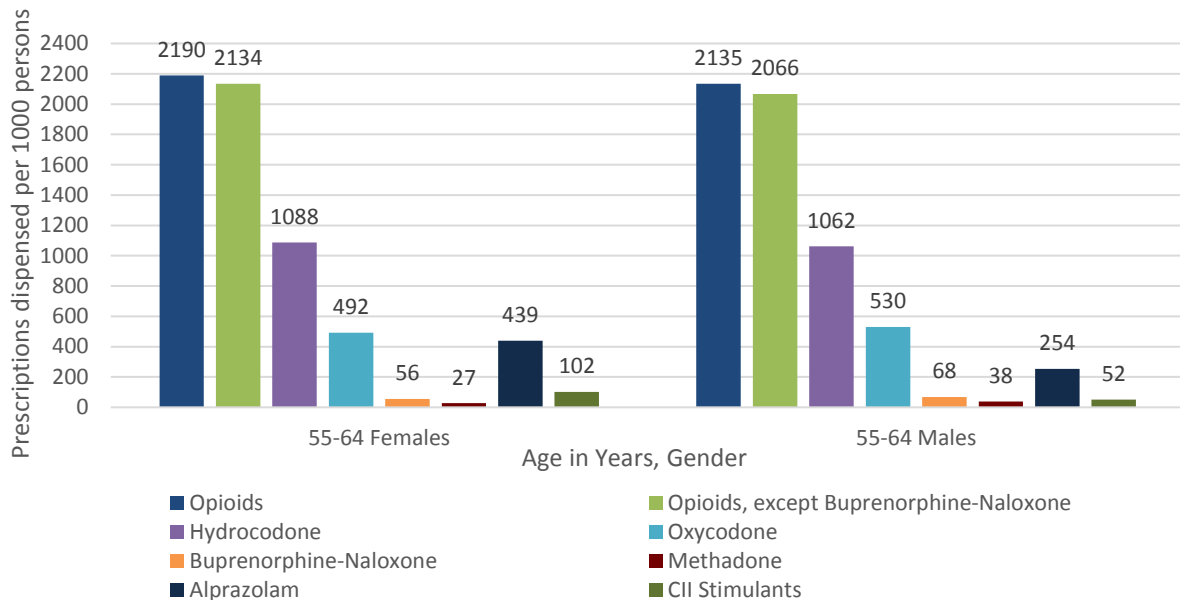
Rates of Prescriptions Dispensed to Females and Males Ages 35 to 44 years, Kentucky 2016

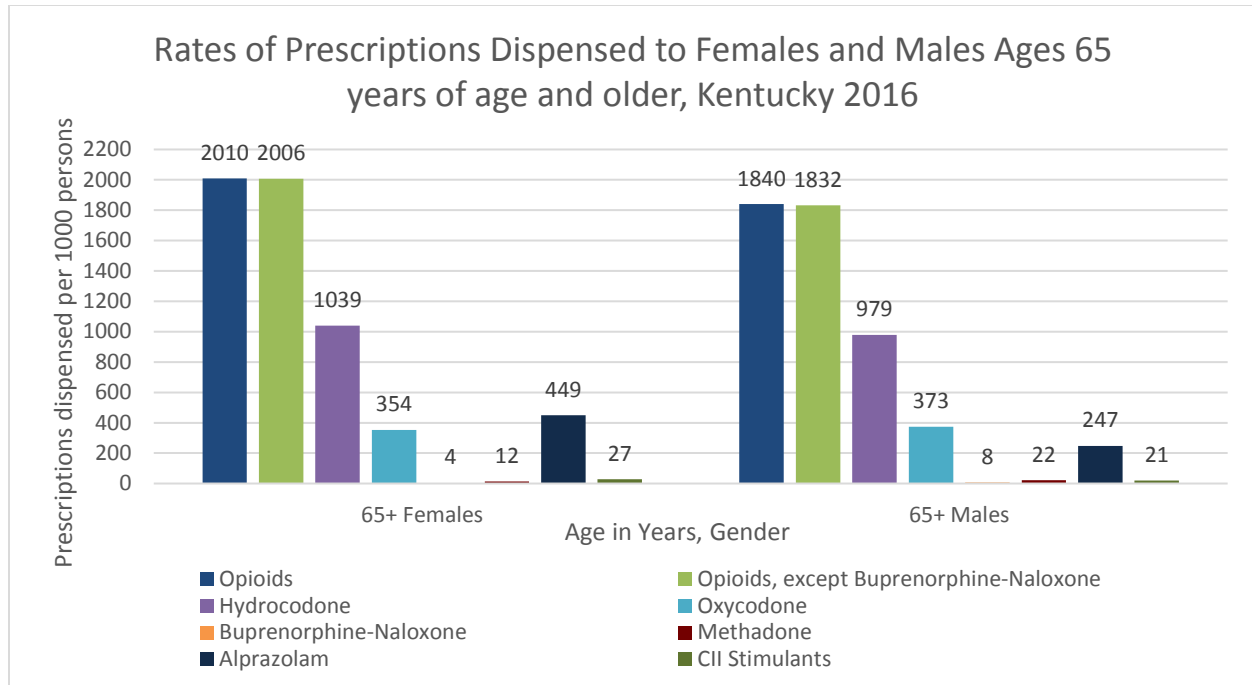


Rates of Prescriptions Dispensed to Females and Males Ages 45 to 54 years, Kentucky 2016

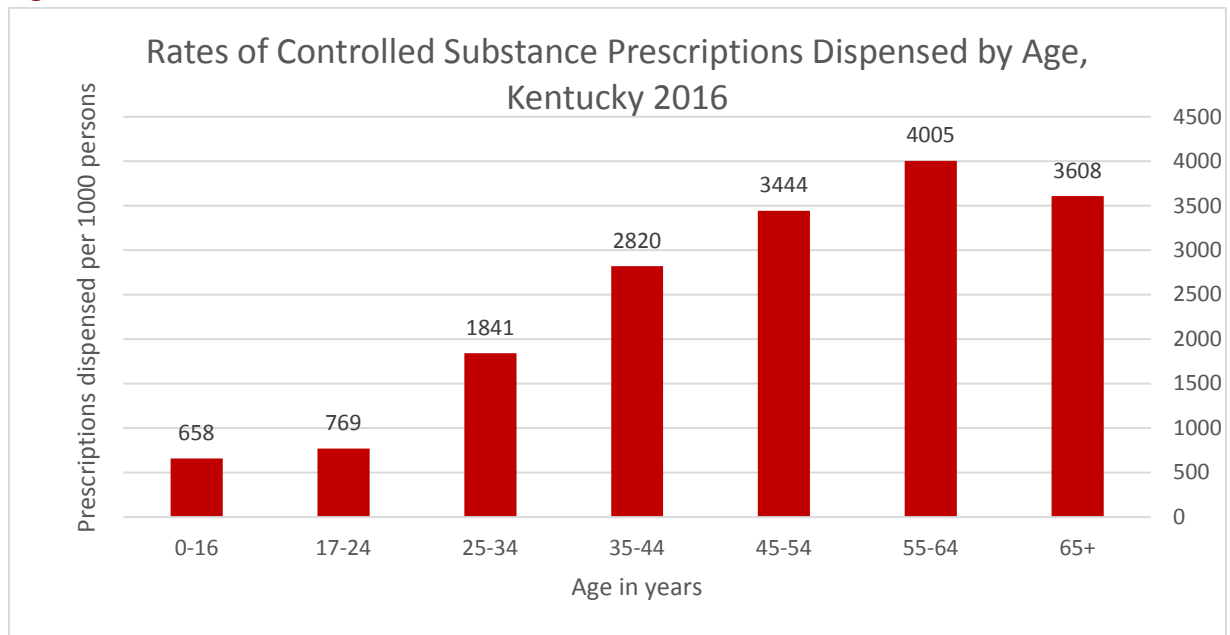


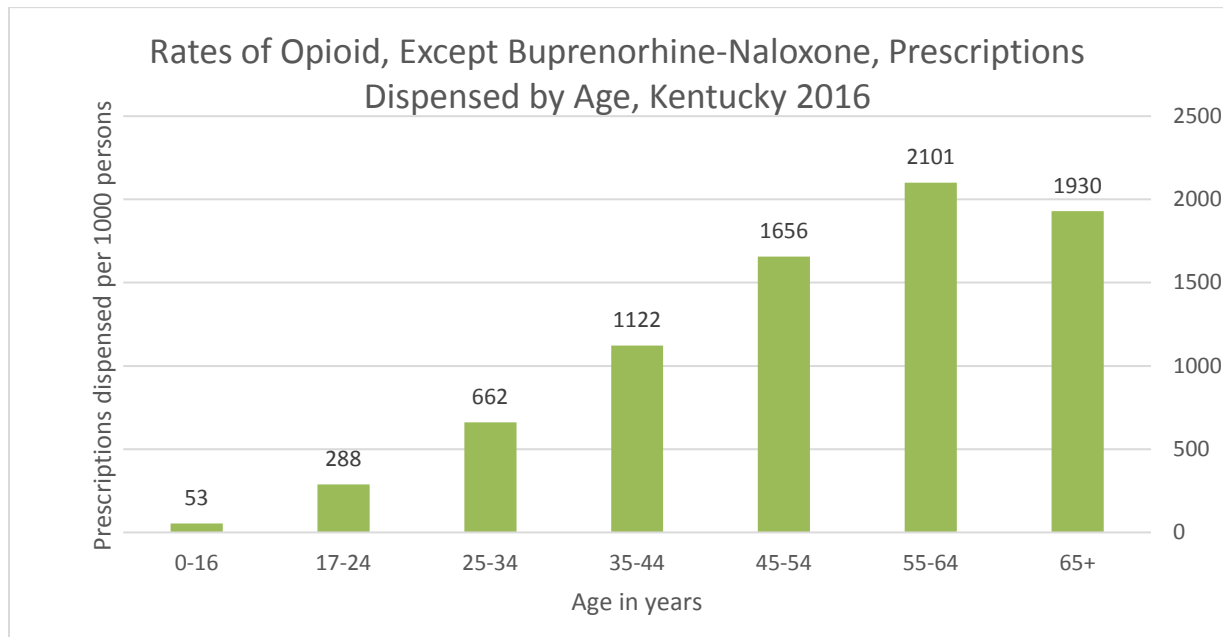
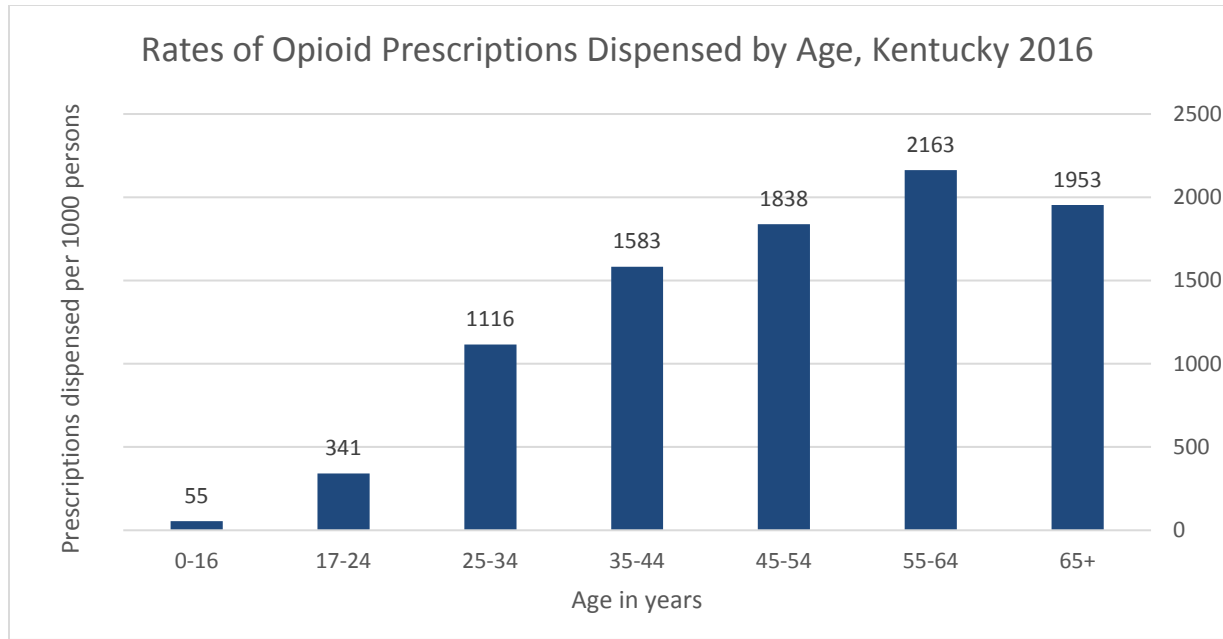
Rates of Prescriptions Dispensed to Females and Males Ages 55 to 64 years, Kentucky 2016

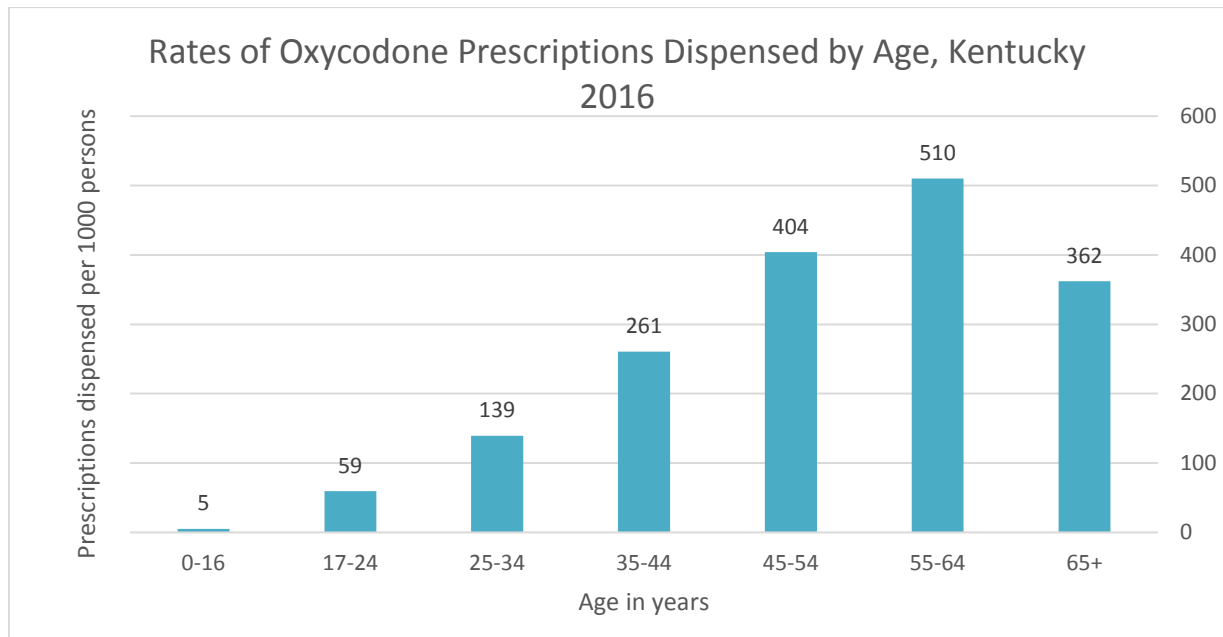
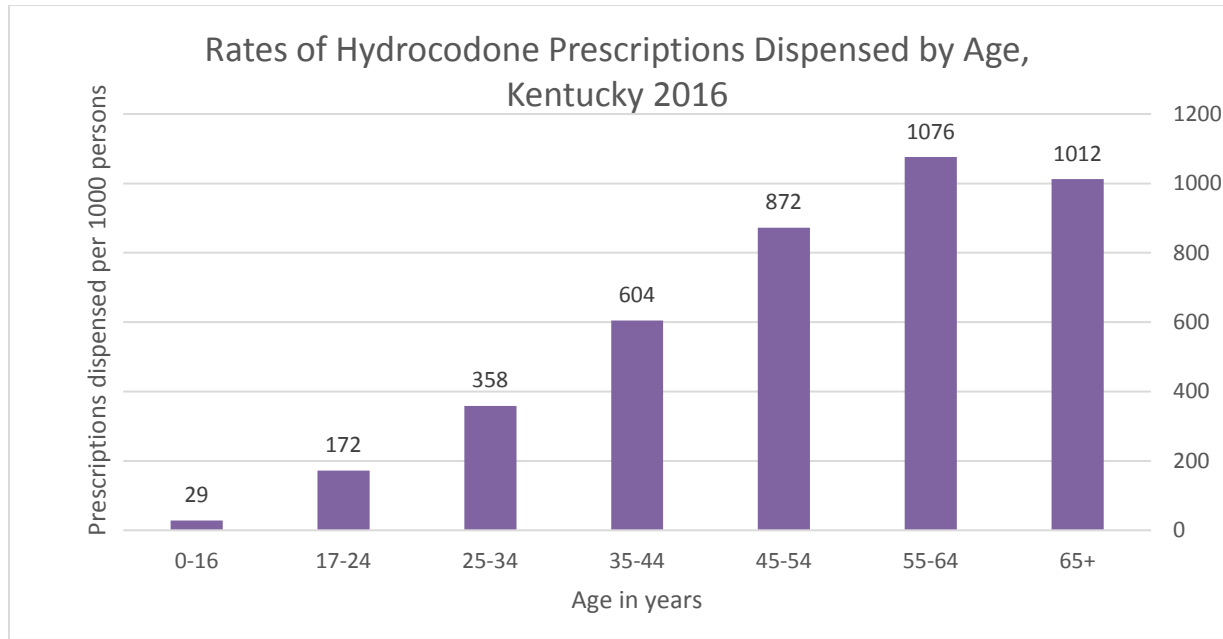


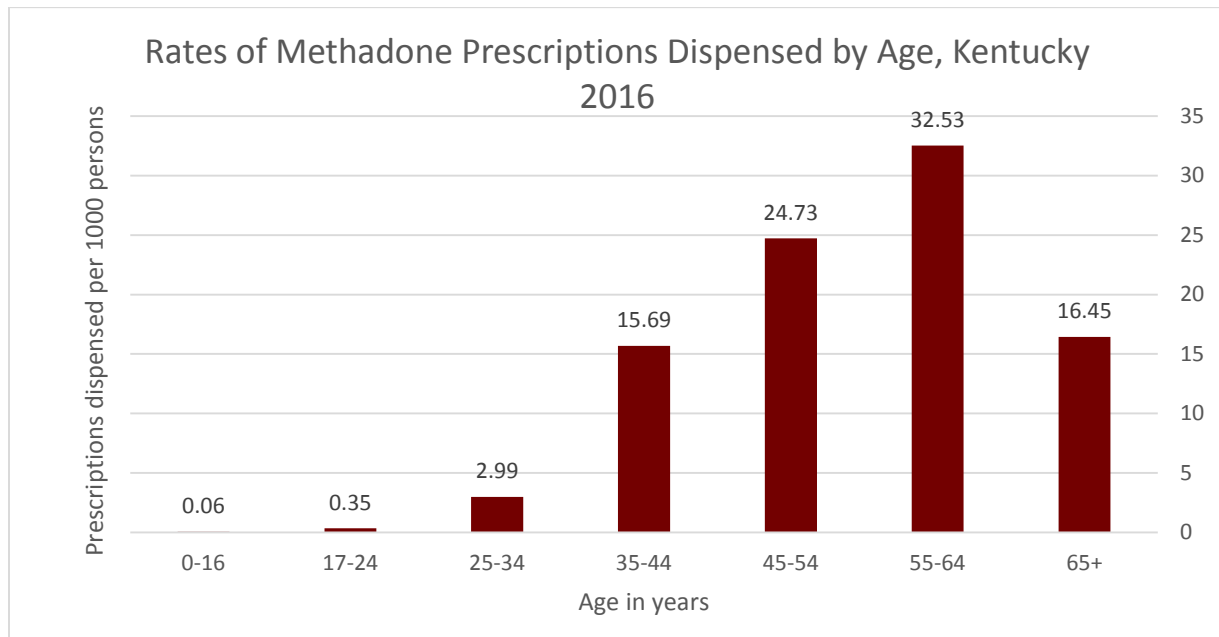
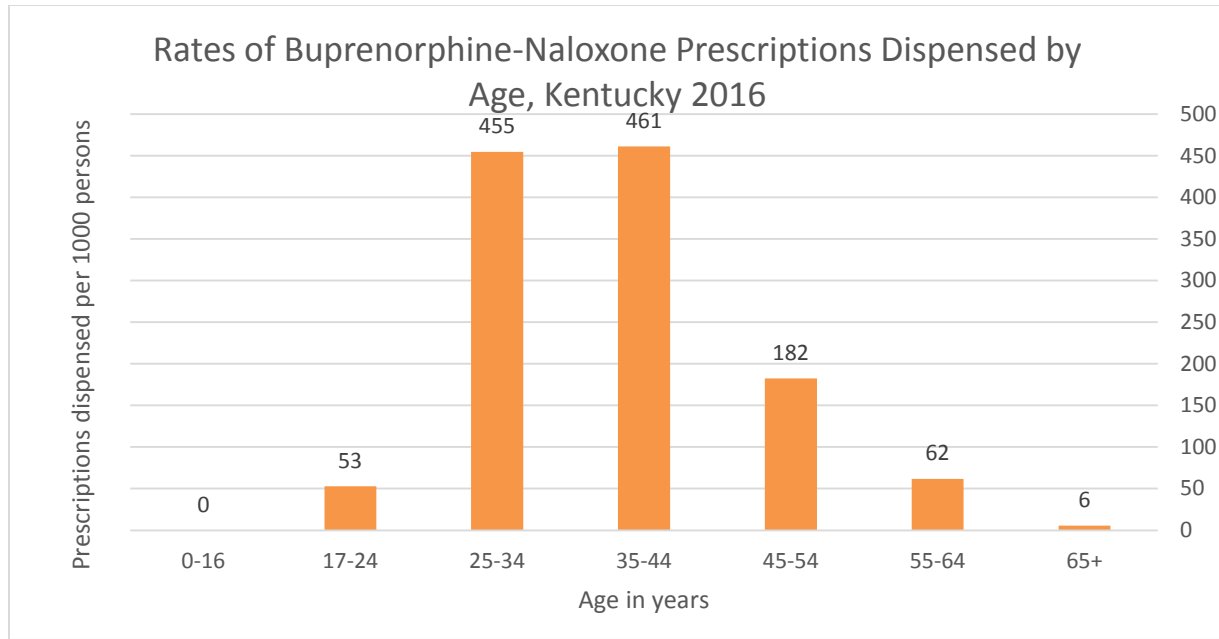


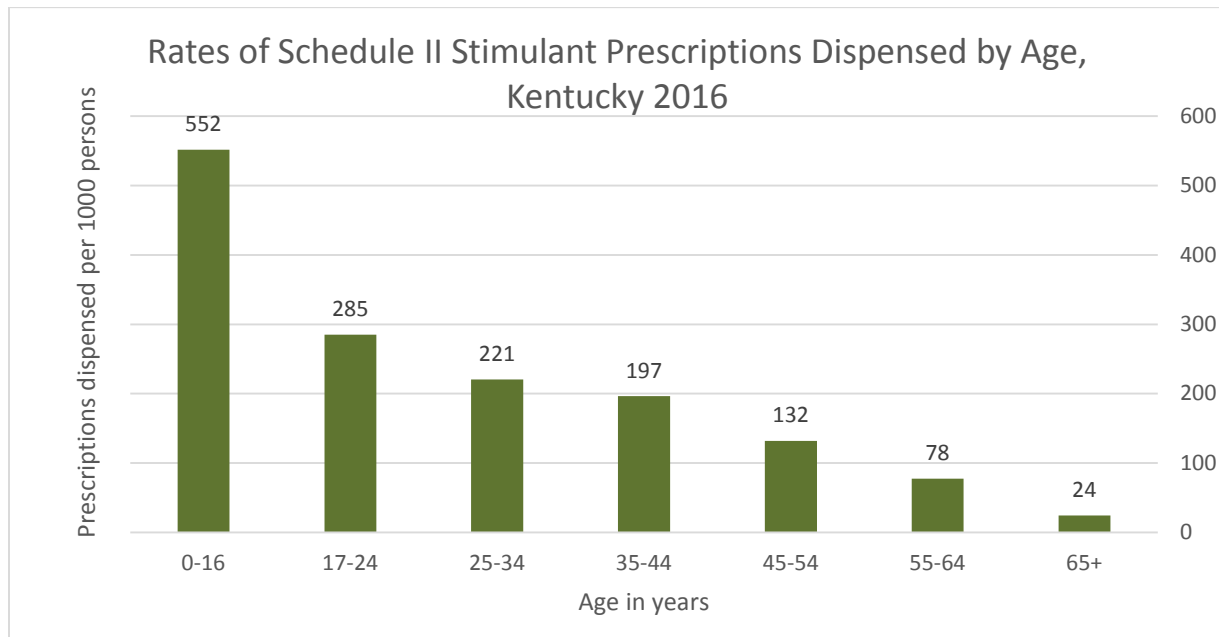
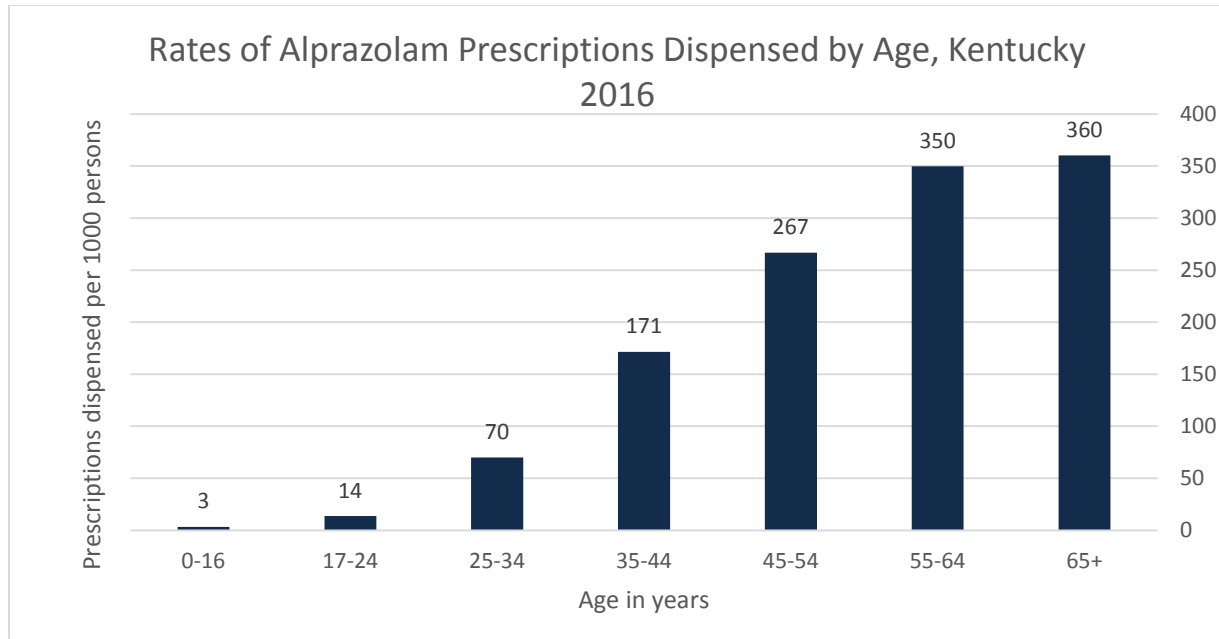
Age



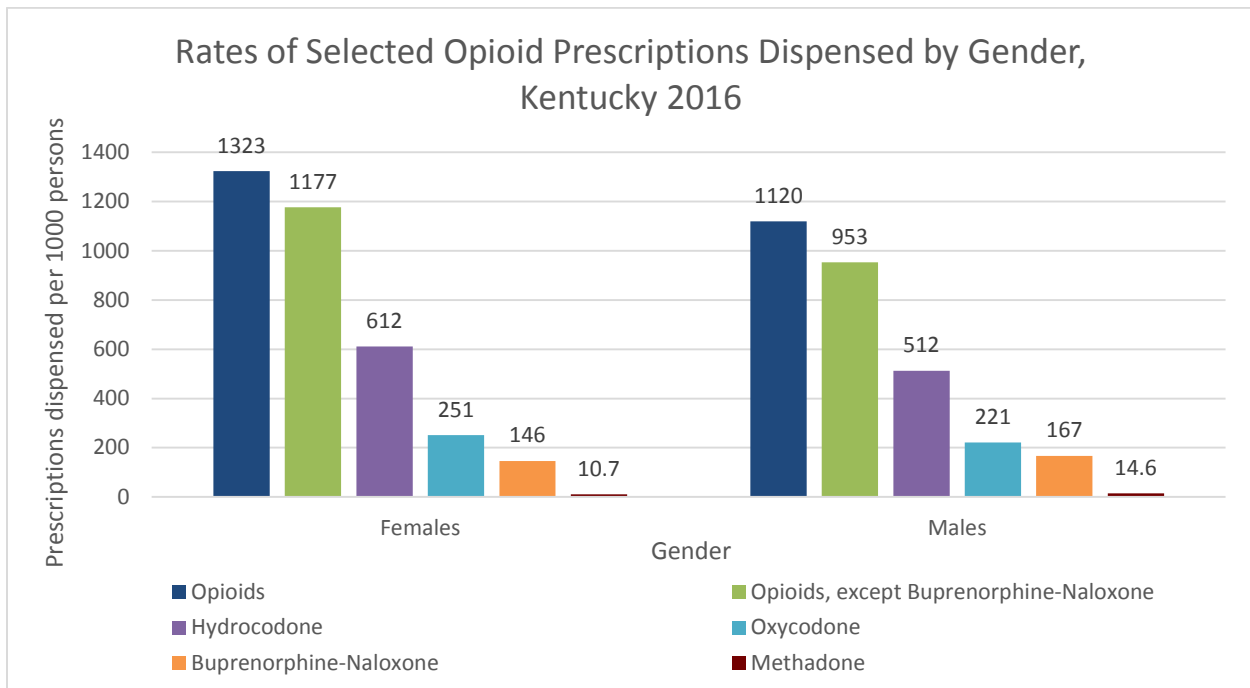
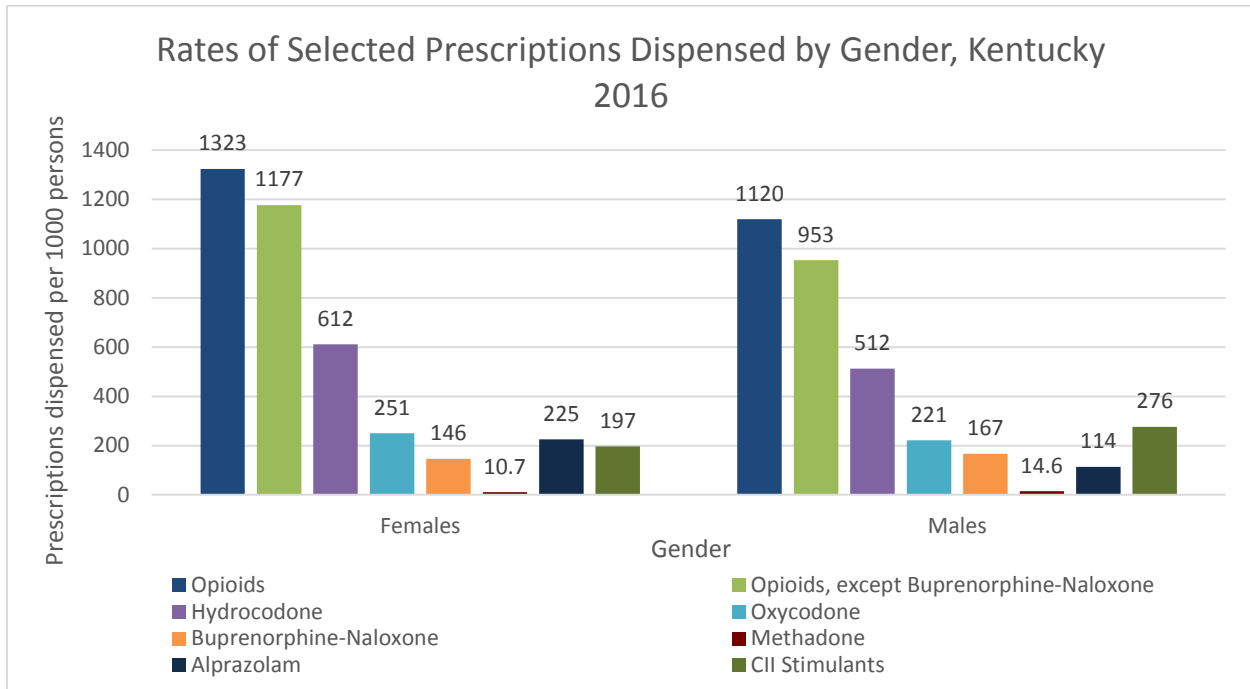








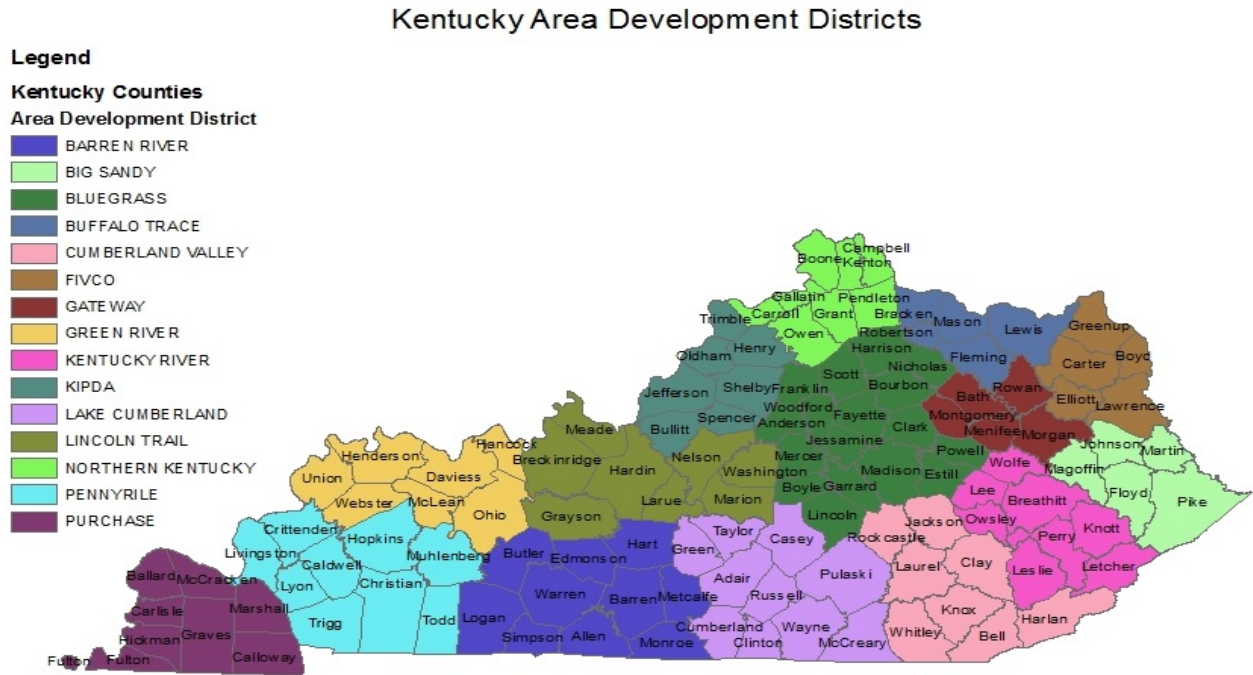
Gender



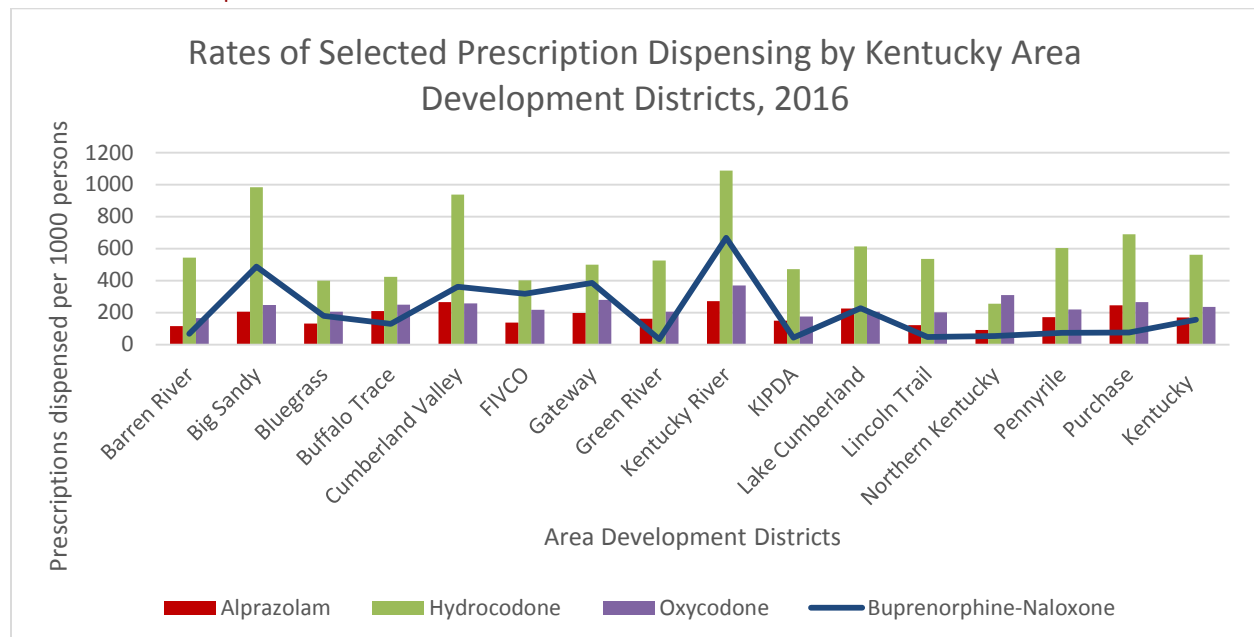
Regional Dispensing Rates

Kentucky has fifteen Area Development Districts depicted on Figure 1. The following graphs reflect dispensing rates aggregated on the Area Development District level.

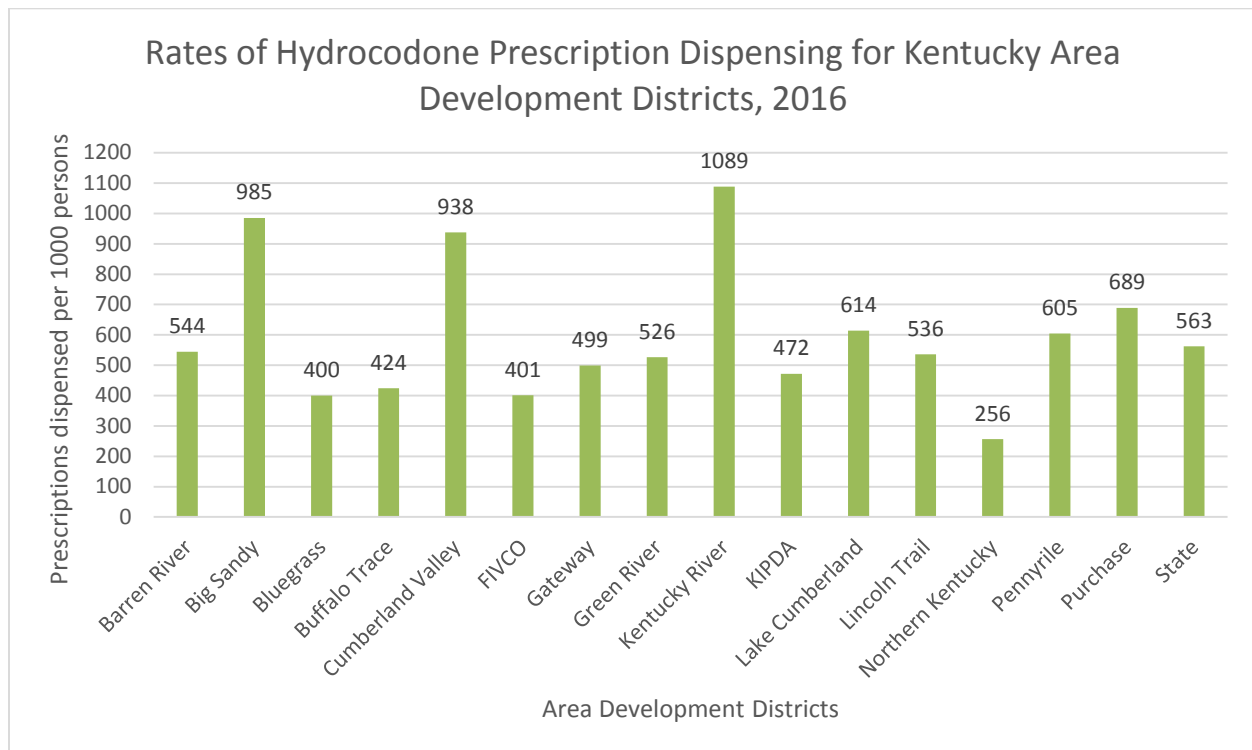
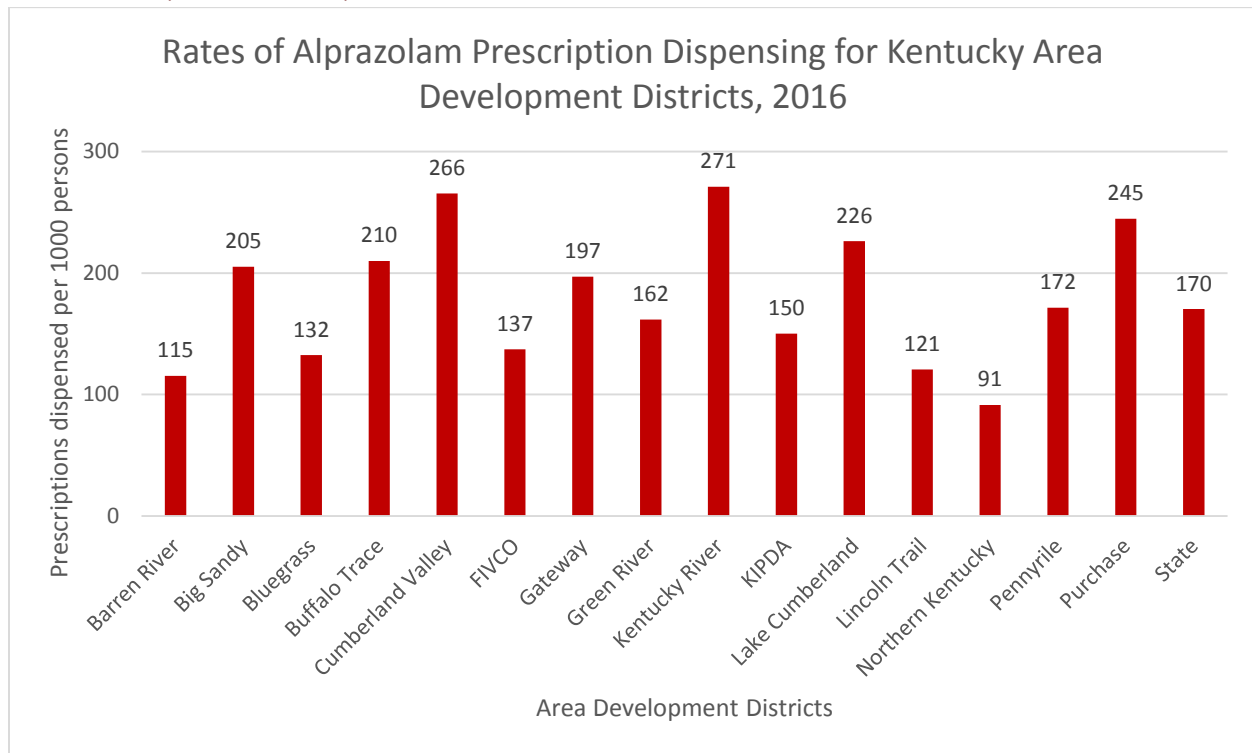
Figure 1.



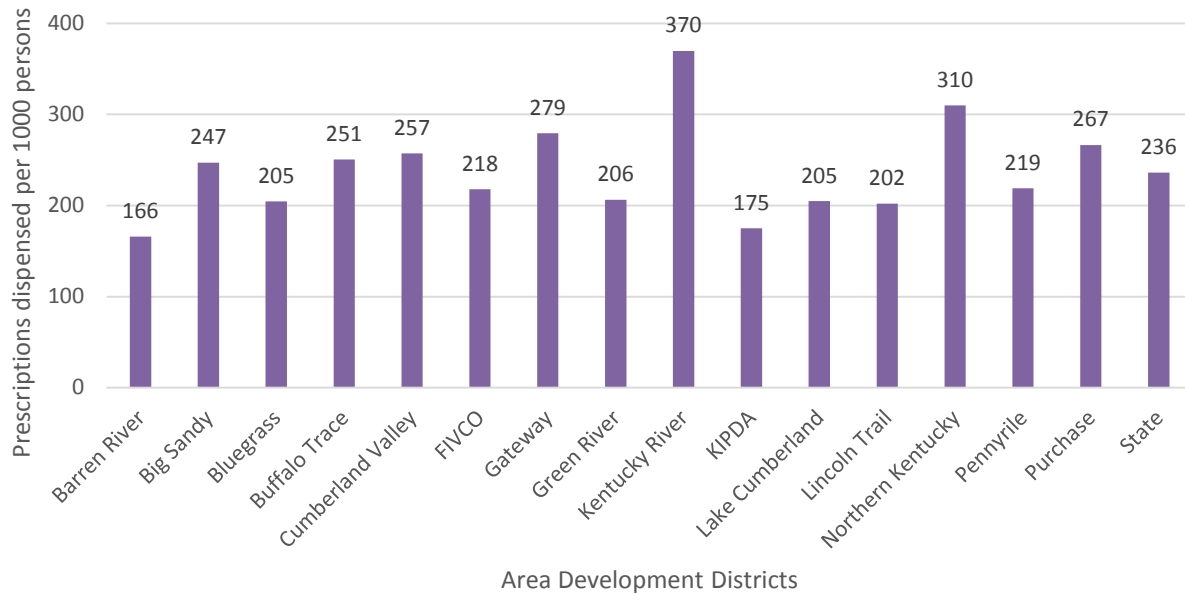
All Area Development Districts



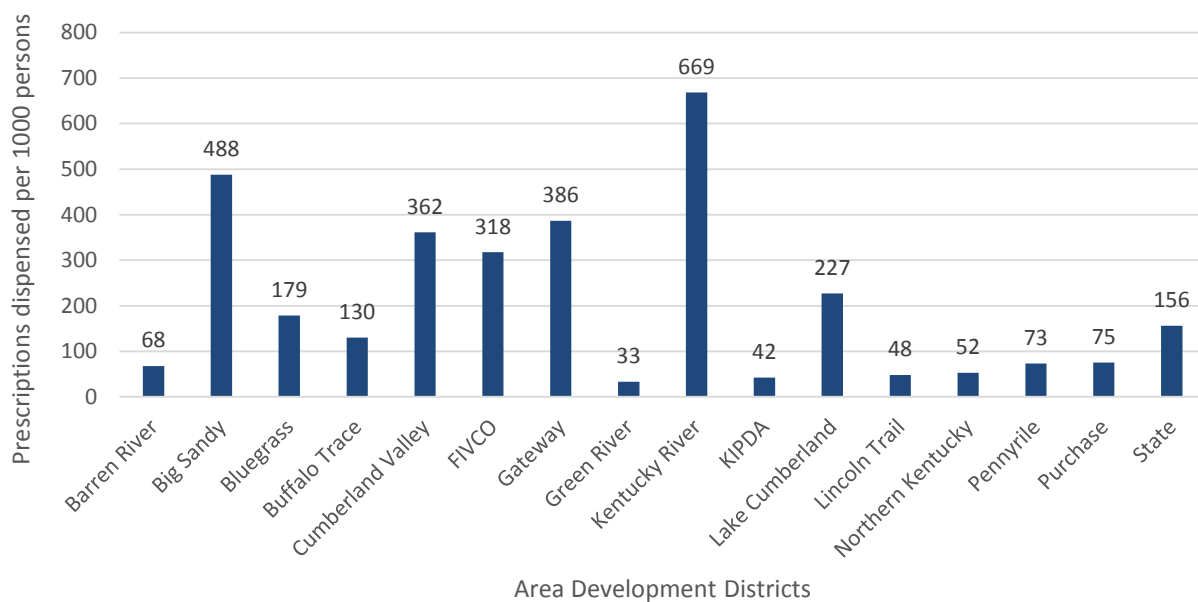
Substance by Area Development District



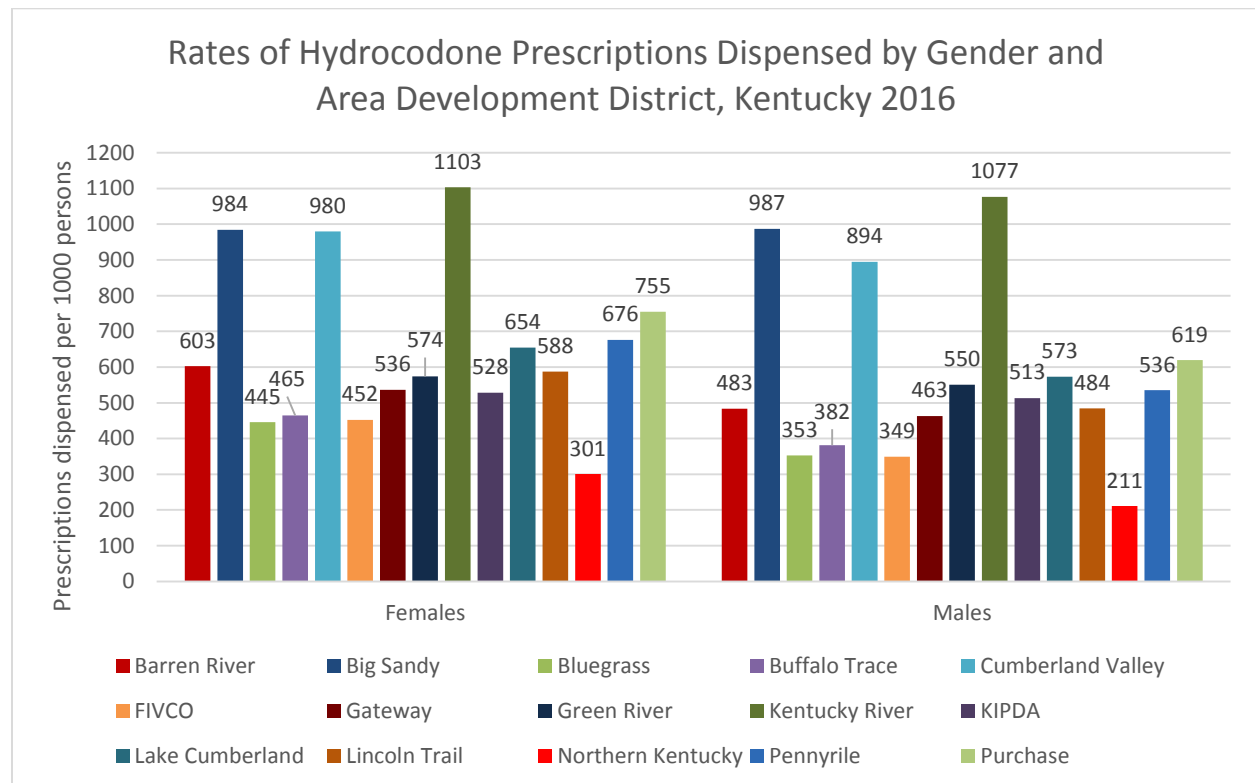
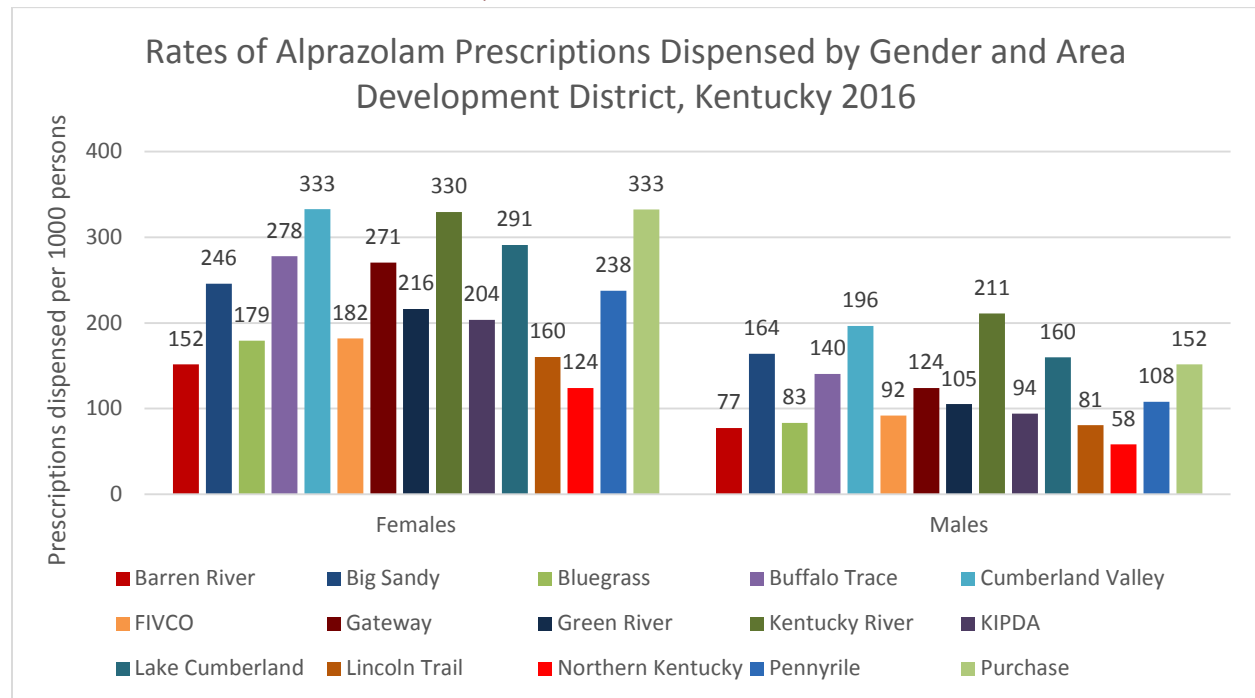
Rates of Oxycodone Prescription Dispensing for Kentucky Area Development Districts, 2016



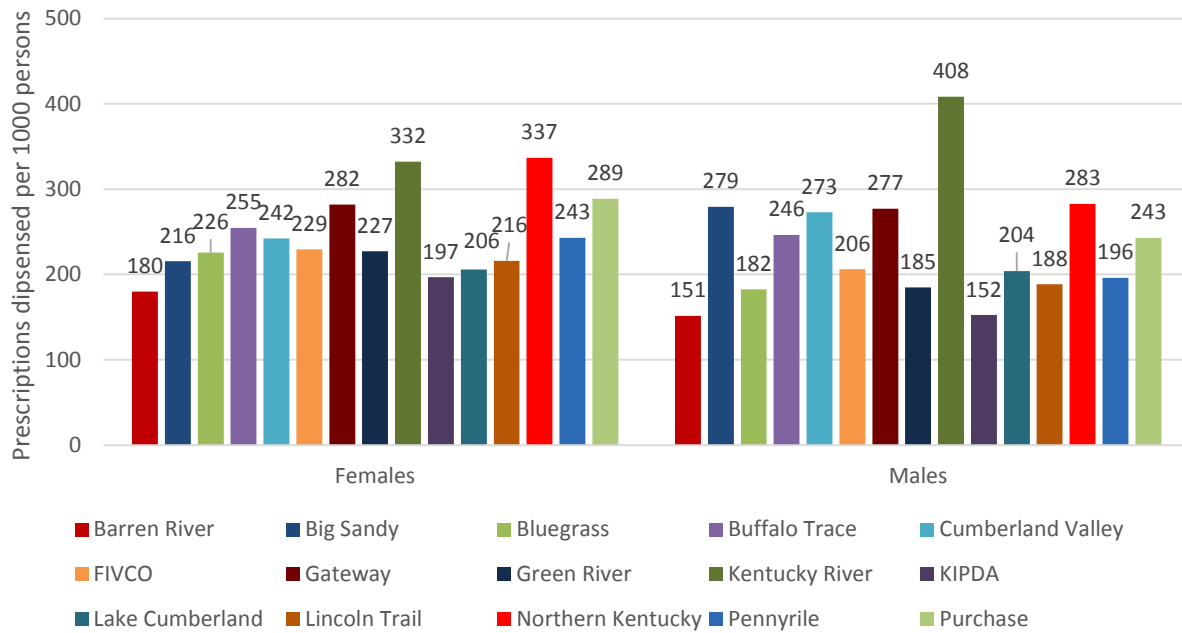
Rates of Buprenorphine-Naloxone Prescription Dispensing for Kentucky Area Development Districts, 2016



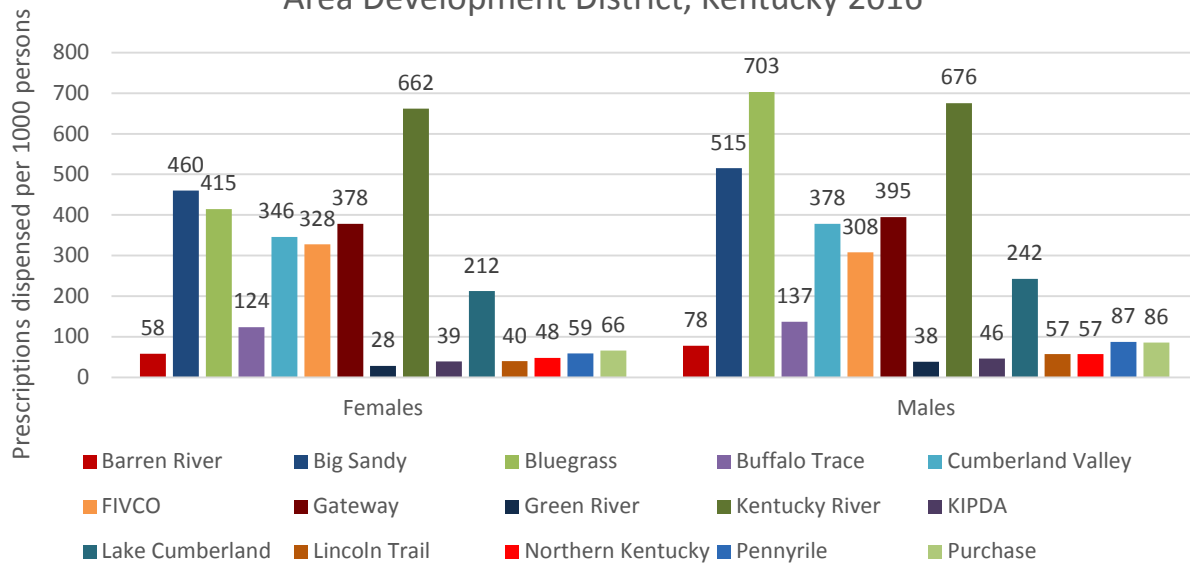
Substance, Gender, and Area Development District



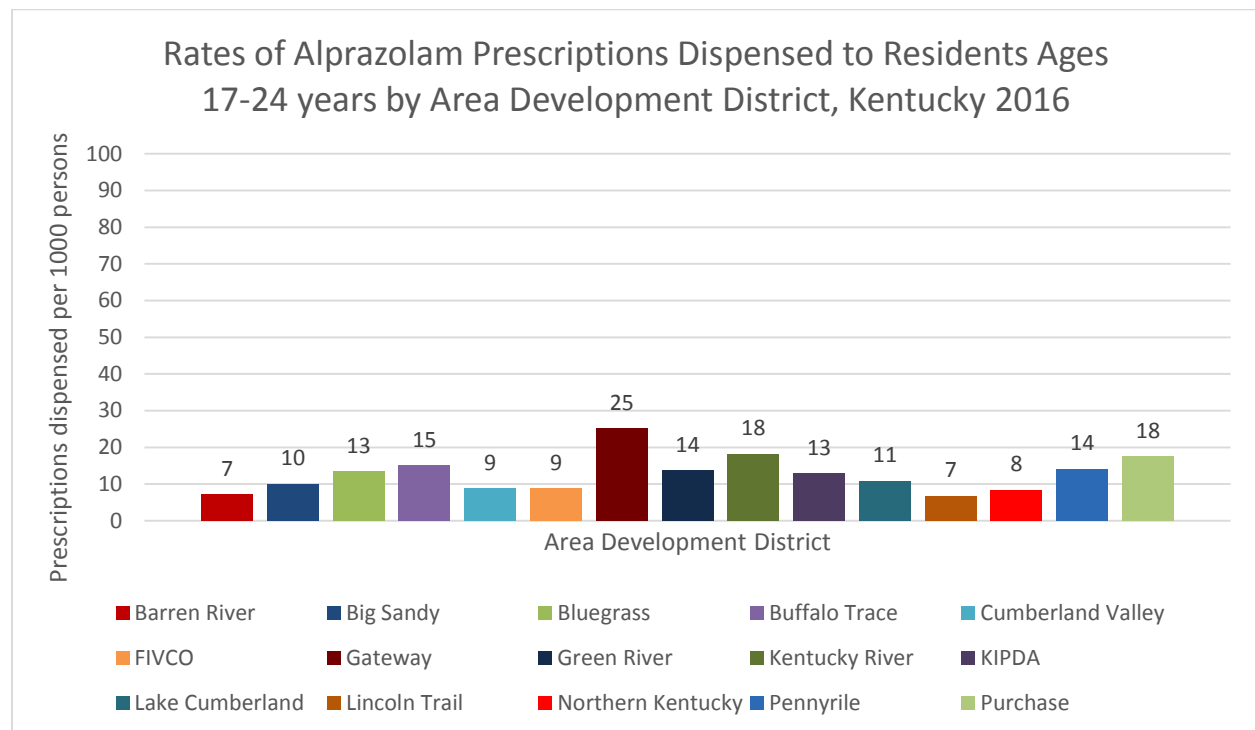
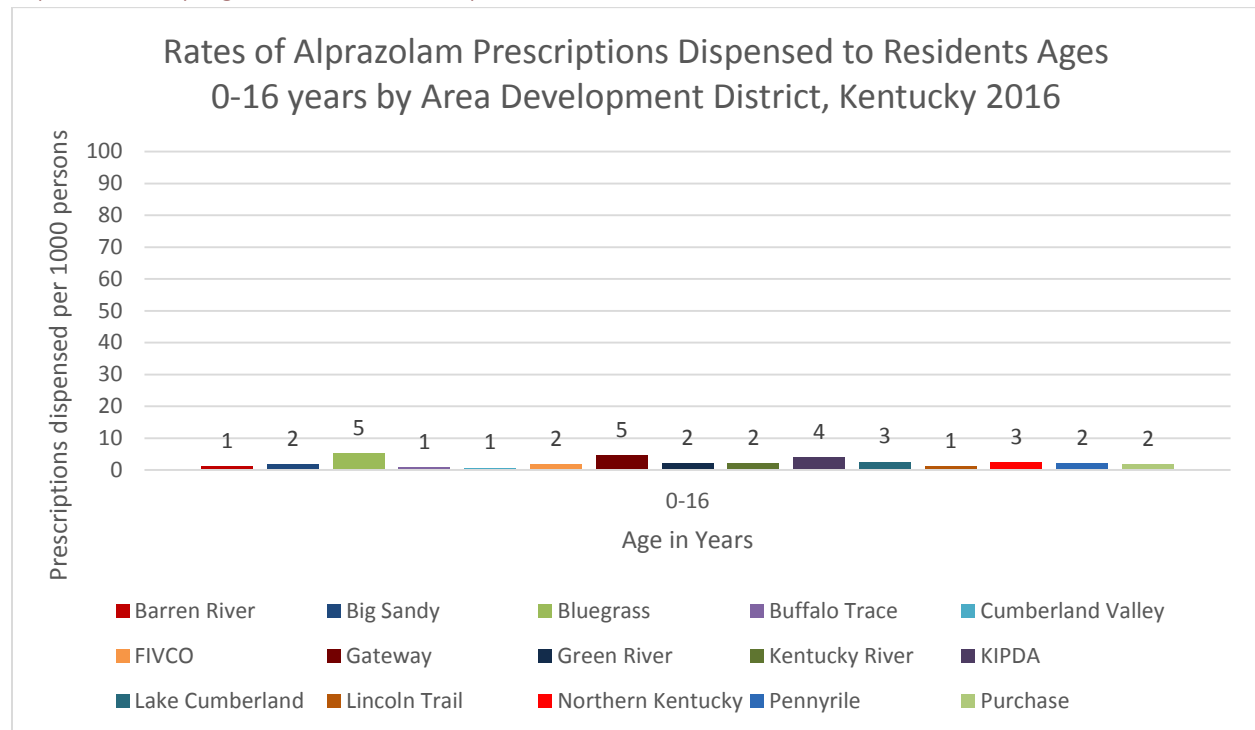
Rates of Oxycodone Prescriptions Dispensed by Gender and Area Development District, Kentucky 2016



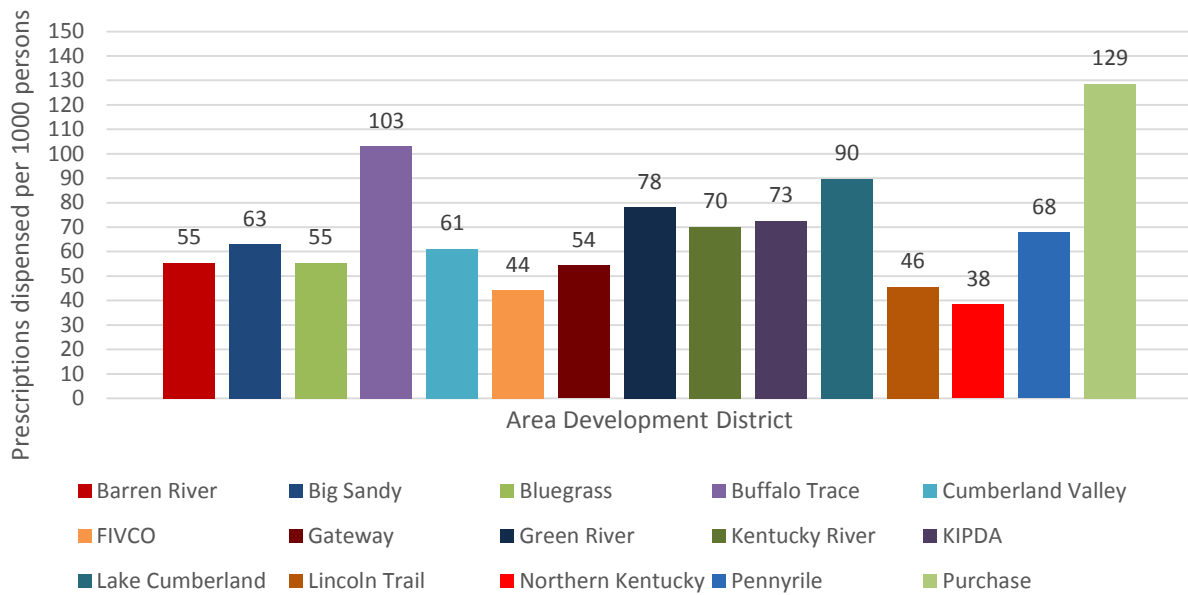
Rates of Buprenorphine-Naloxone Dispensed by Gender and Area Development District, Kentucky 2016



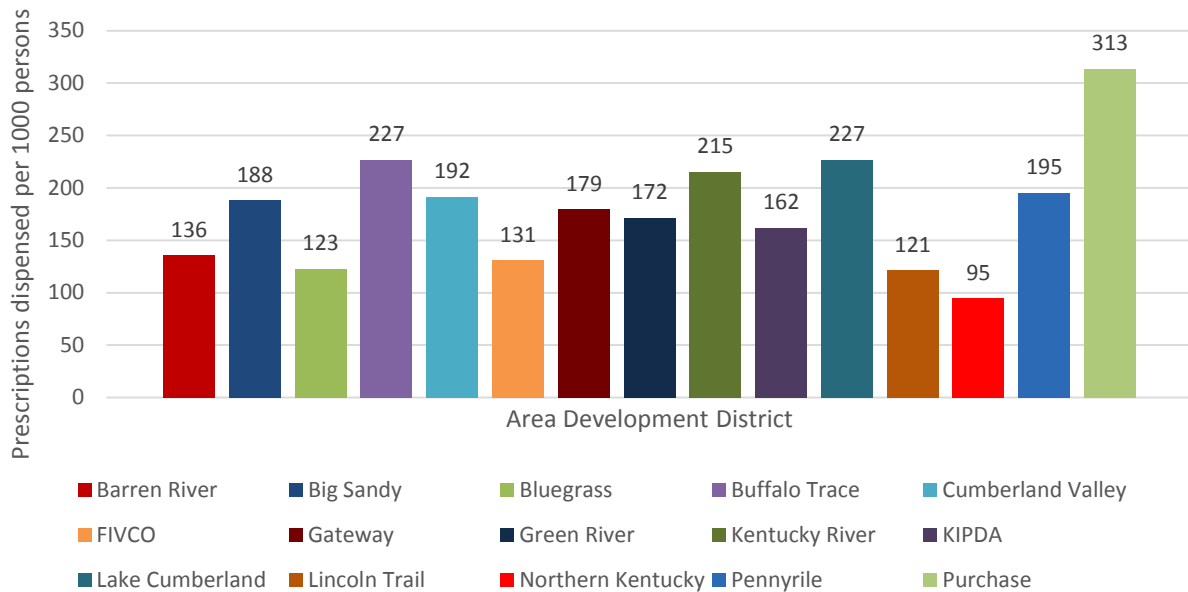
Alprazolam by Age and Area Development District



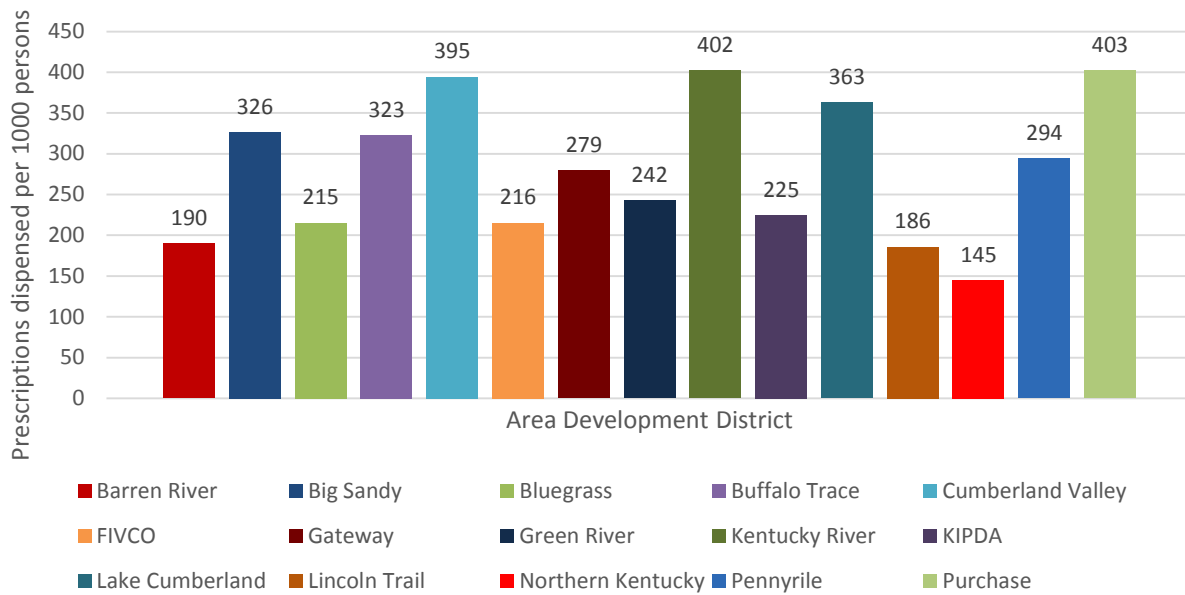
Rates of Alprazolam Prescriptions Dispensed to Residents Ages 25-34 years by Area Development District, Kentucky 2016



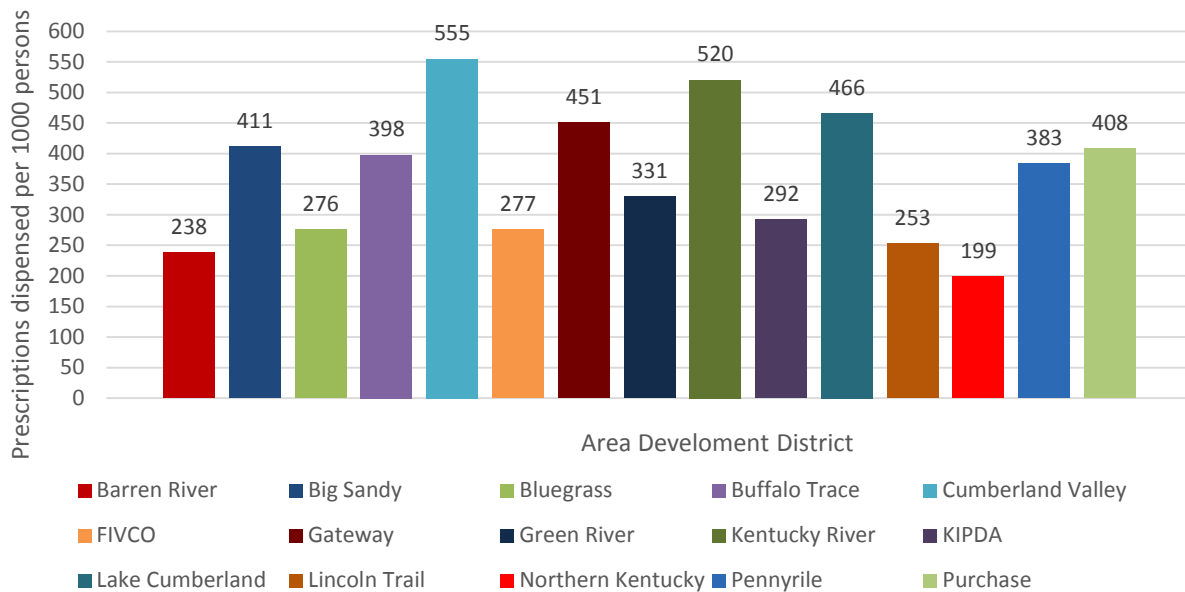
Rates of Alprazolam Prescriptions Dispensed to Residents Ages 35-44 years by Area Development District, Kentucky 2016

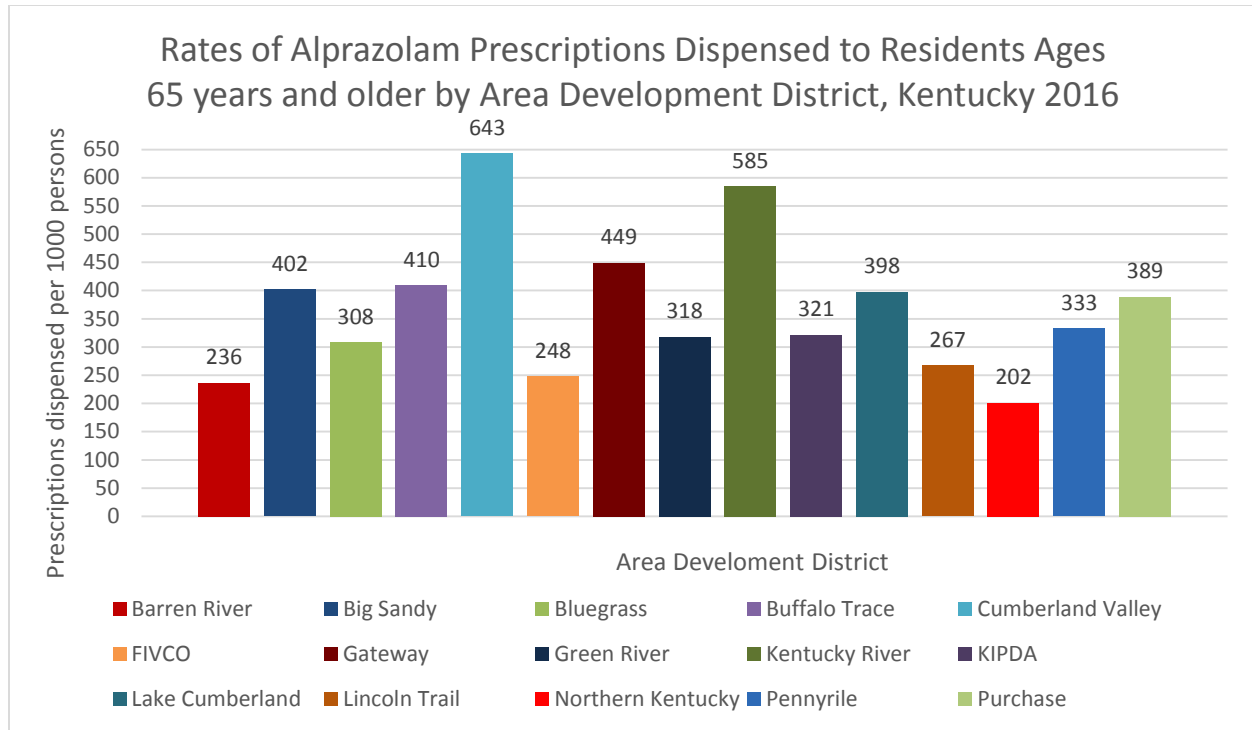


Rates of Alprazolam Prescriptions Dispensed to Residents Ages 45-54 years by Area Development District, Kentucky 2016

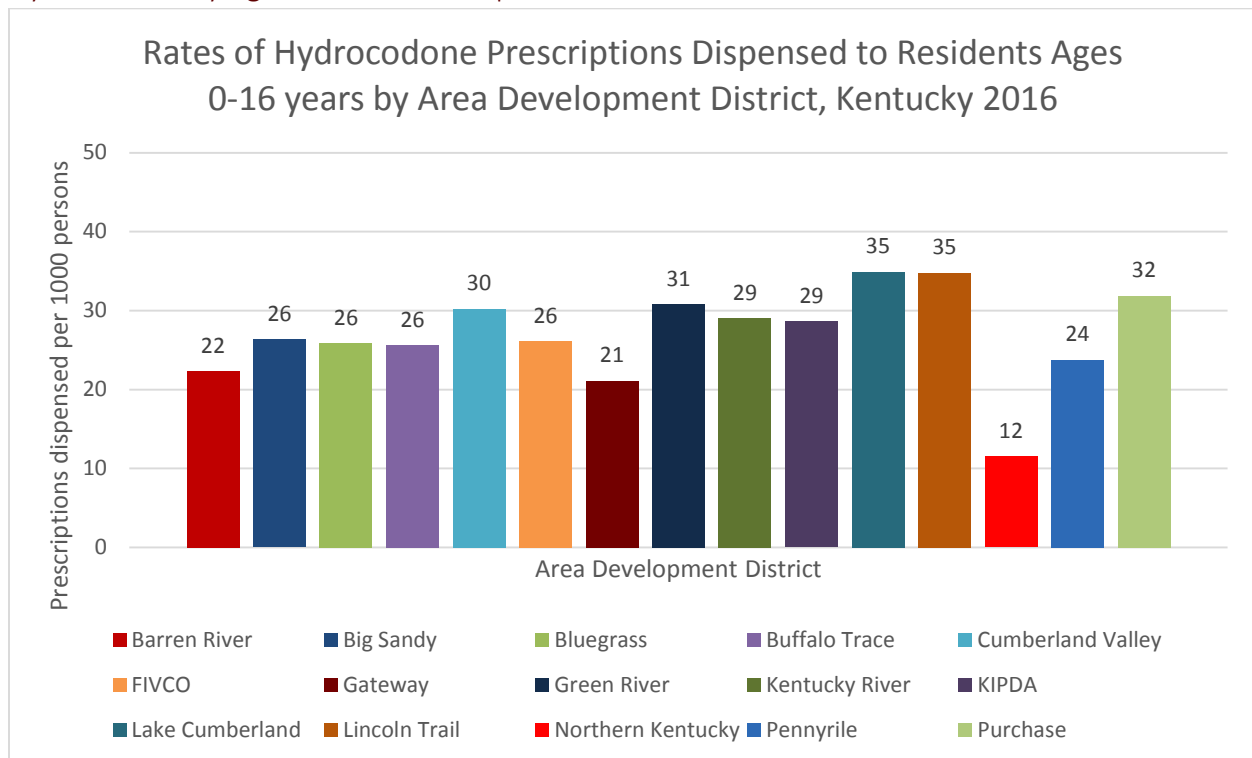


Rates of Alprazolam Prescriptions Dispensed to Residents Ages 55-64 years by Area Development District, Kentucky 2016

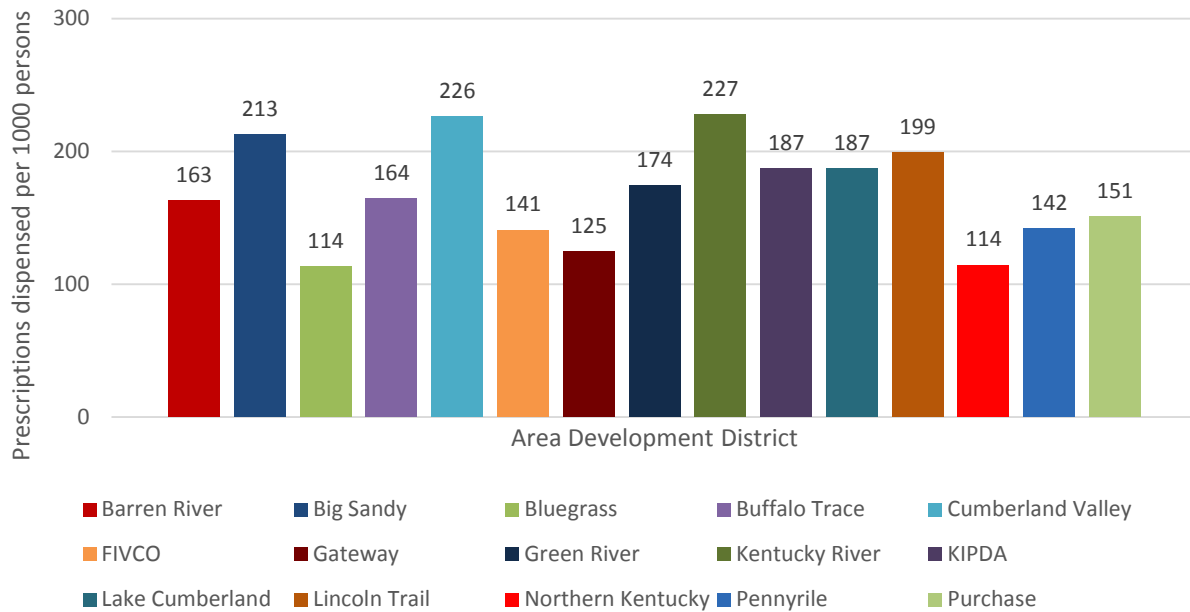




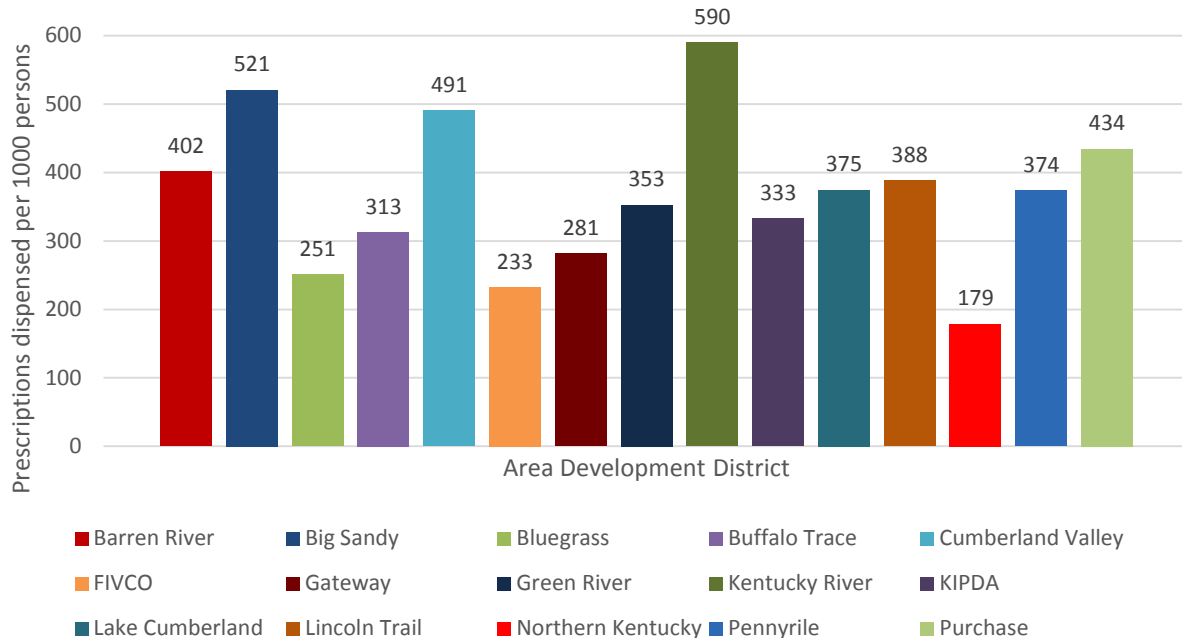
Hydrocodone by Age and Area Development District



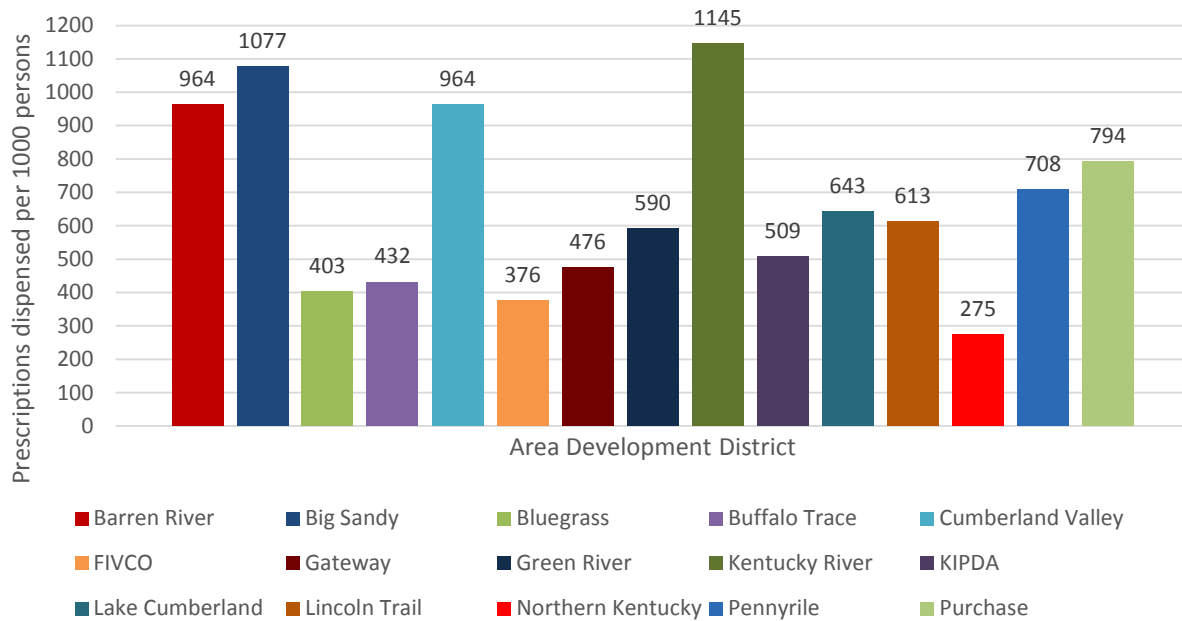
Rates of Hydrocodone Prescriptions Dispensed to Residents Ages 17-24 years by Area Development District, Kentucky 2016



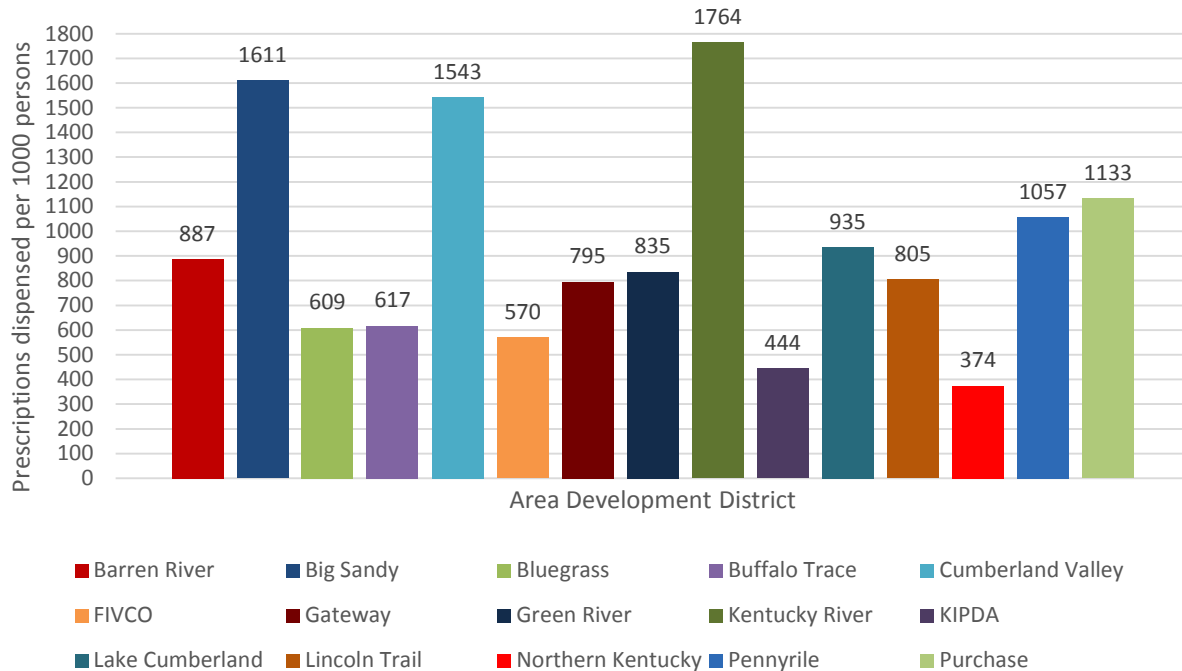
Rates of Hydrocodone Prescriptions Dispensed to Residents Ages 25-34 years by Area Development District, Kentucky 2016



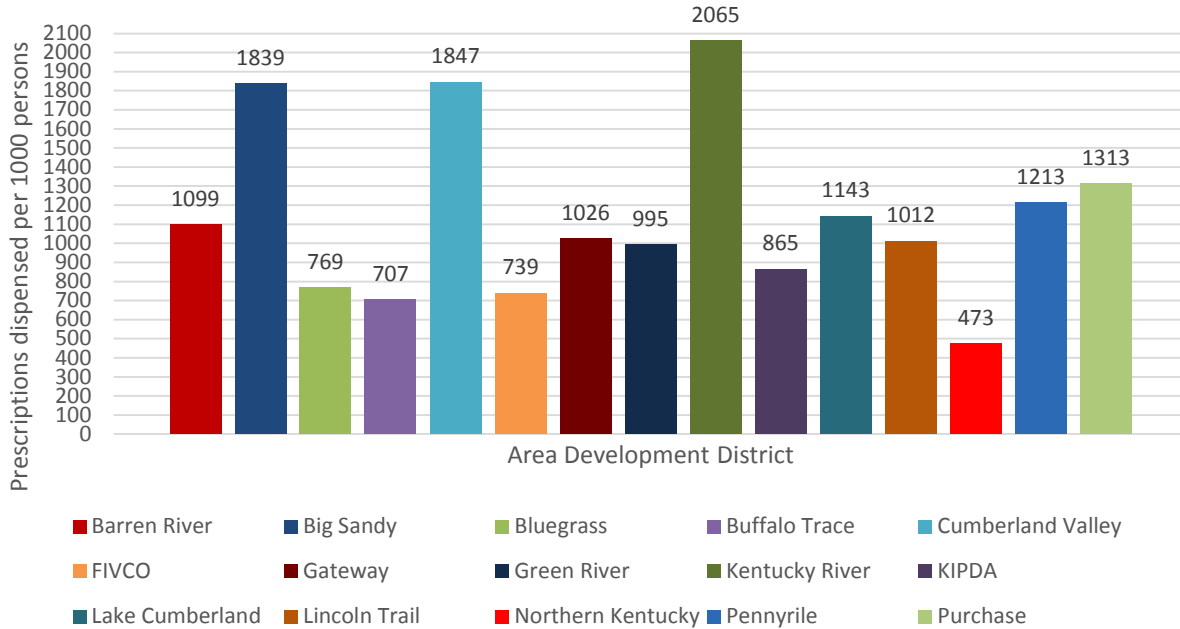
Rates of Hydrocodone Prescriptions Dispensed to Residents Ages 35-44 years by Area Development District, Kentucky 2016



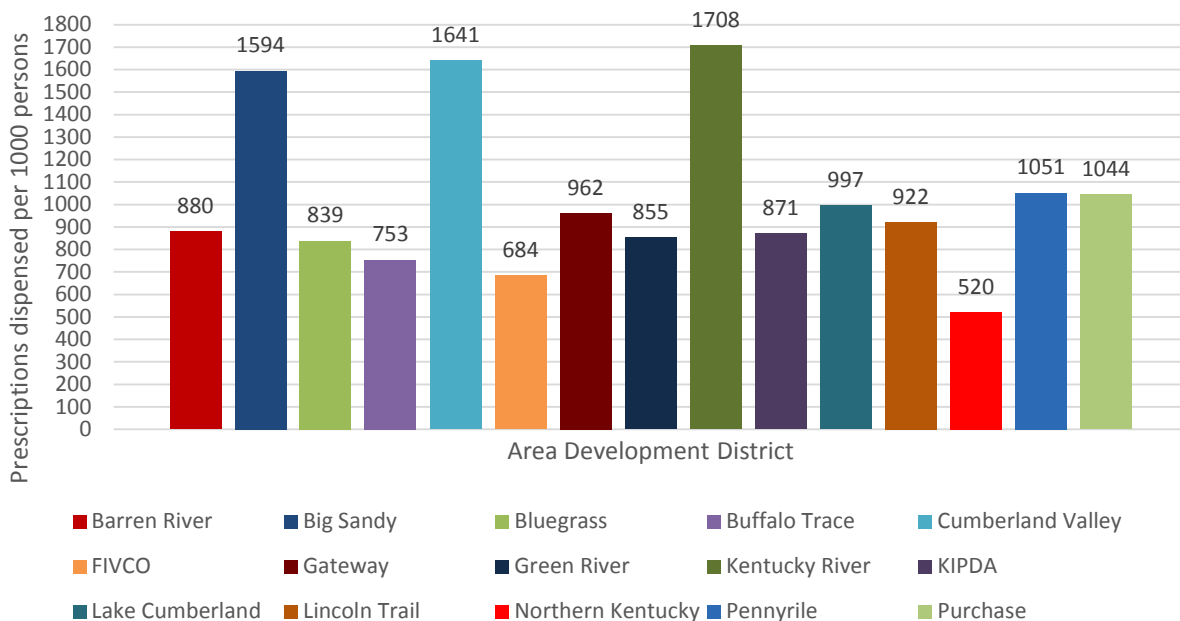
Rates of Hydrocodone Prescriptions Dispensed to Residents Ages 45-54 years by Area Development District, Kentucky 2016



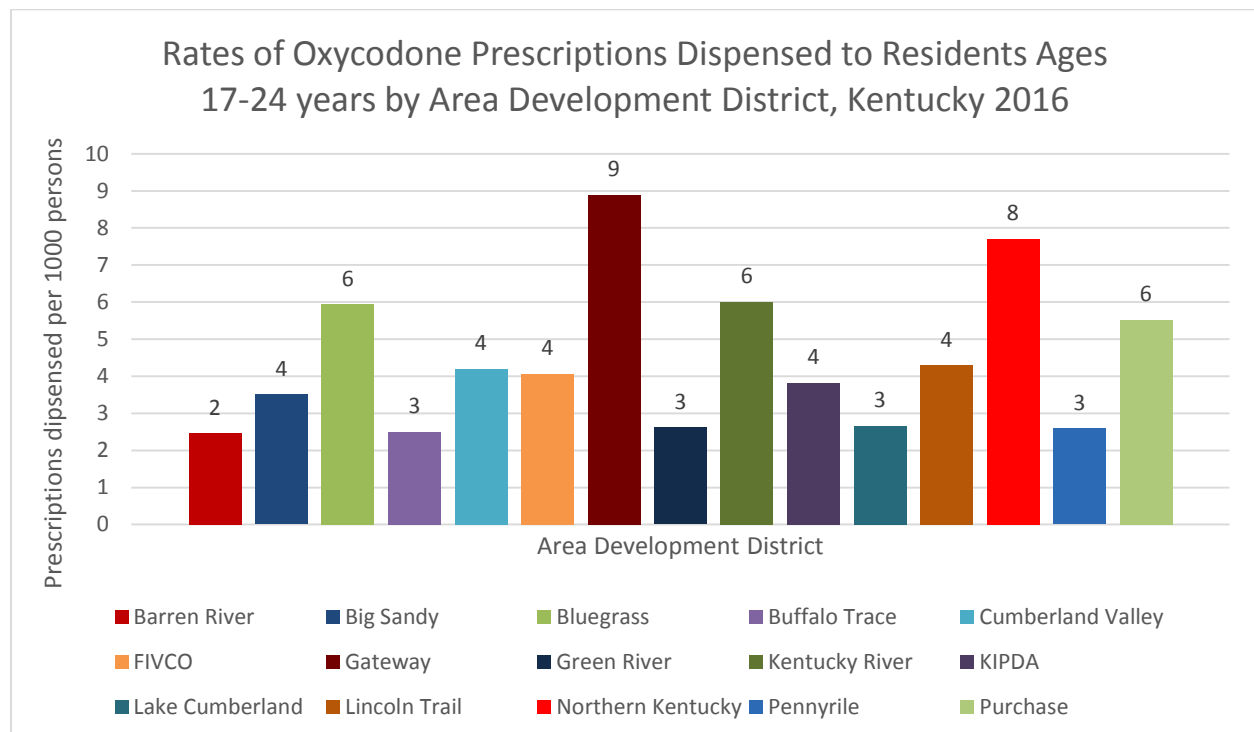
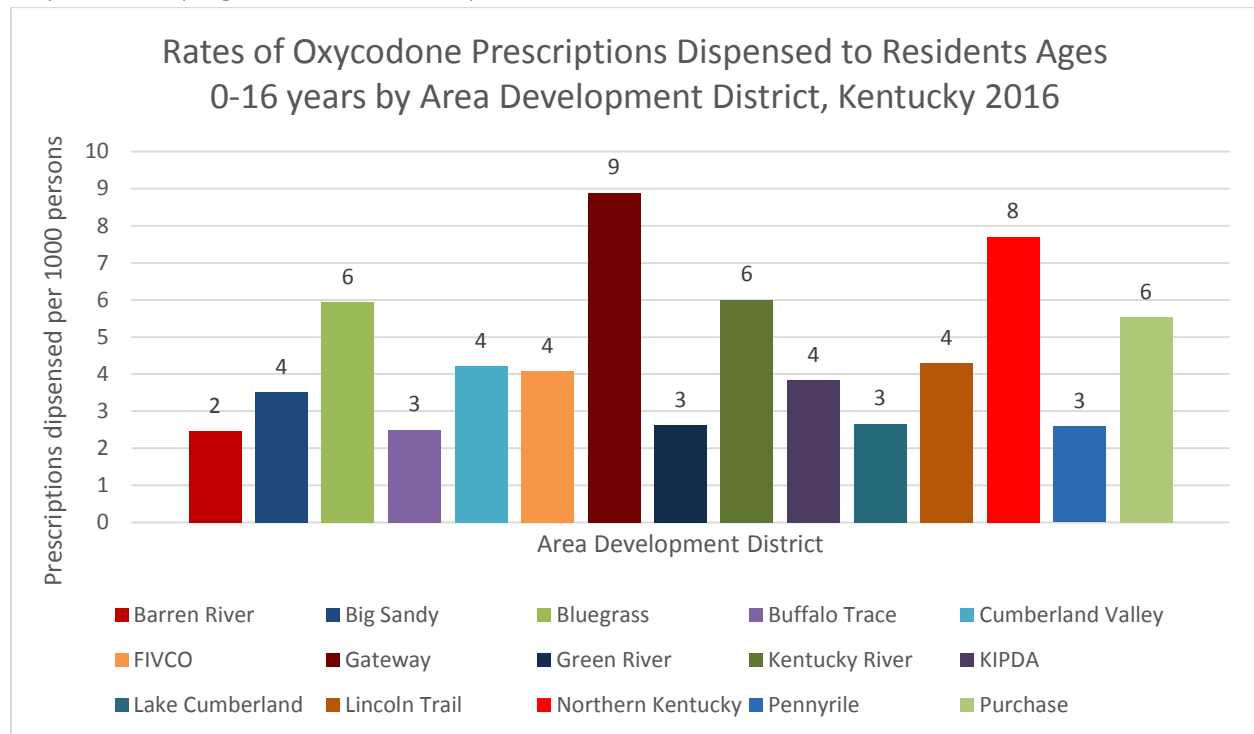
Rates of Hydrocodone Prescriptions Dispensed to Residents Ages 55-64 years by Area Development District, Kentucky 2016



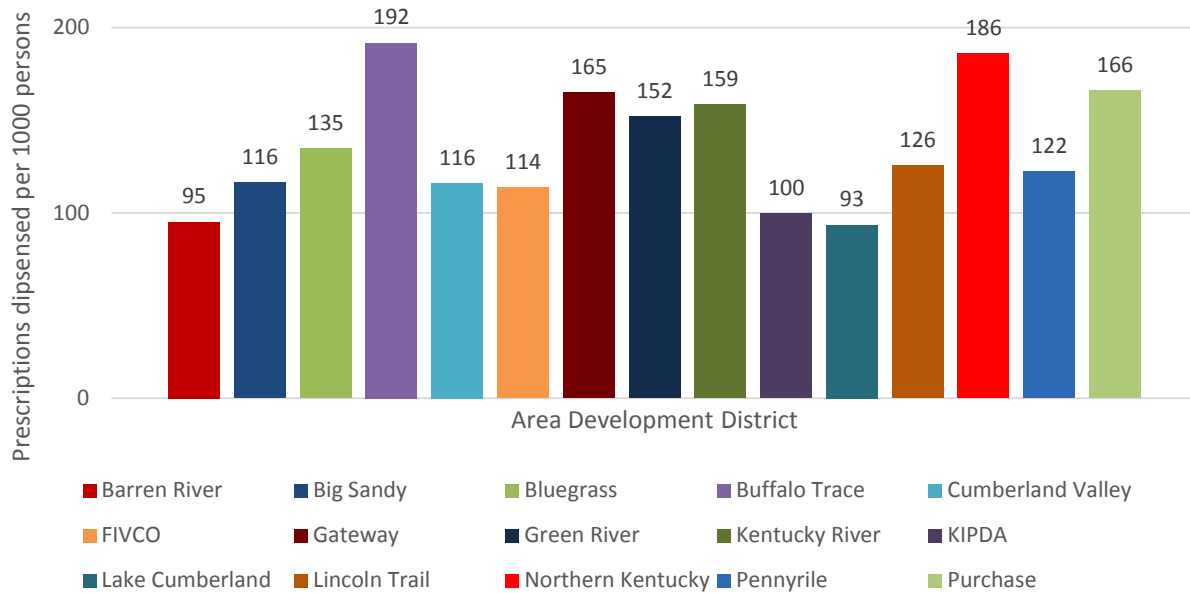
Rates of Hydrocodone Prescriptions Dispensed to Residents Ages 65 years and older by Area Development District, Kentucky 2016



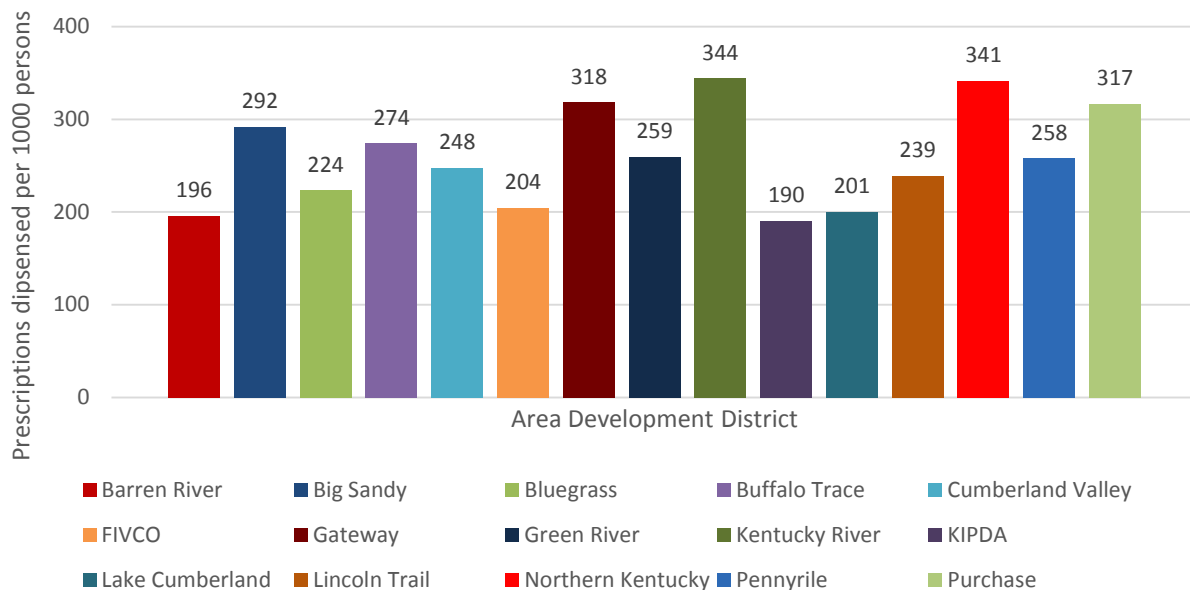
Oxycodone by Age and Area Development District



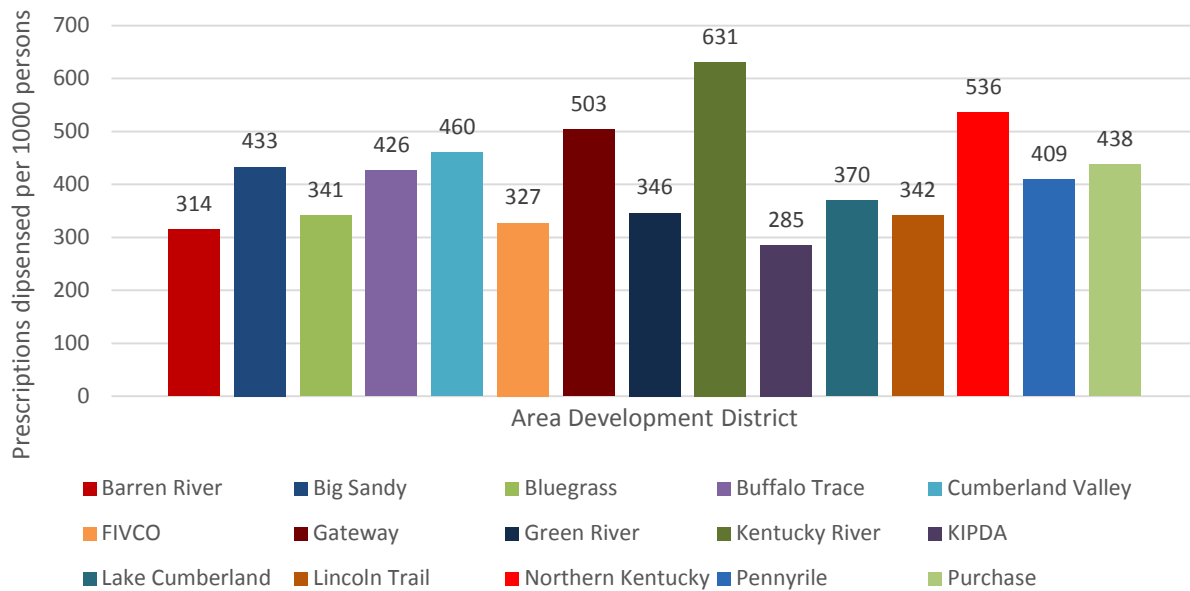
Rates of Oxycodone Prescriptions Dispensed to Residents Ages 25-34 years by Area Development District, Kentucky 2016



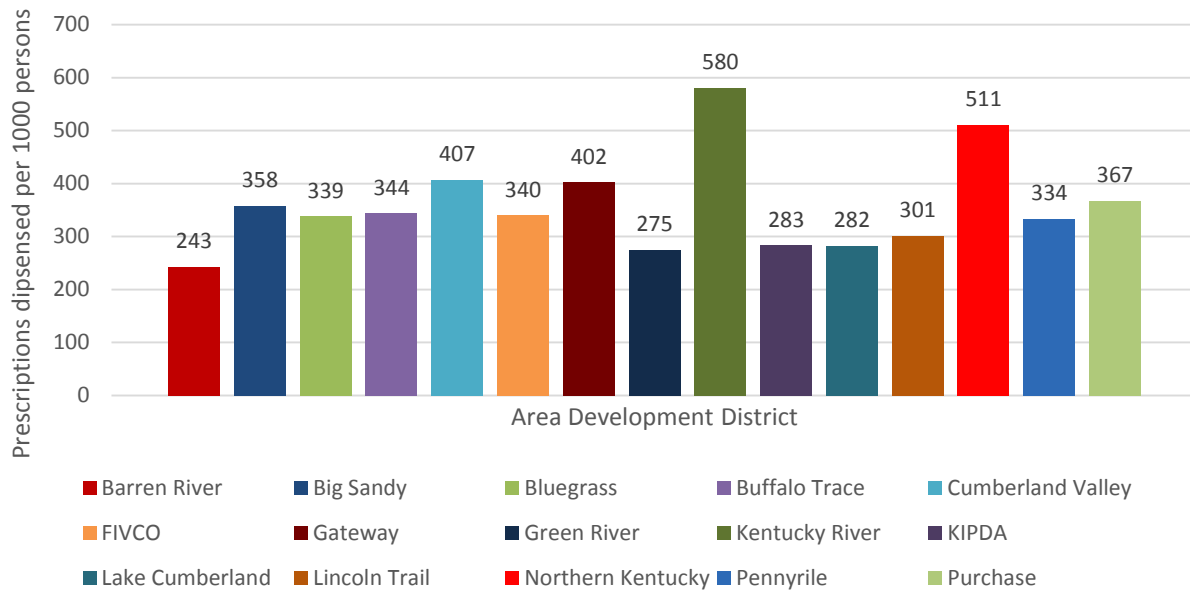
Rates of Oxycodone Prescriptions Dispensed to Residents Ages 35-44 years by Area Development District, Kentucky 2016



Rates of Oxycodone Prescriptions Dispensed to Residents Ages 45-54 years by Area Development District, Kentucky 2016

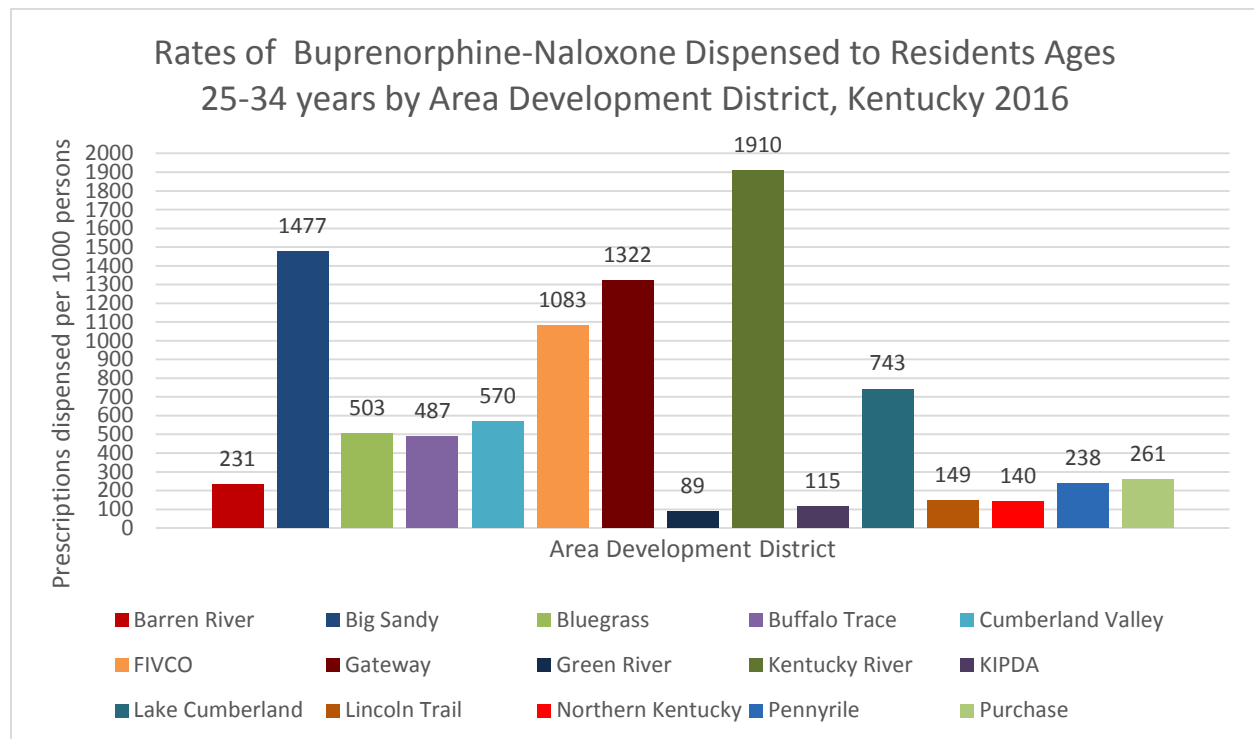
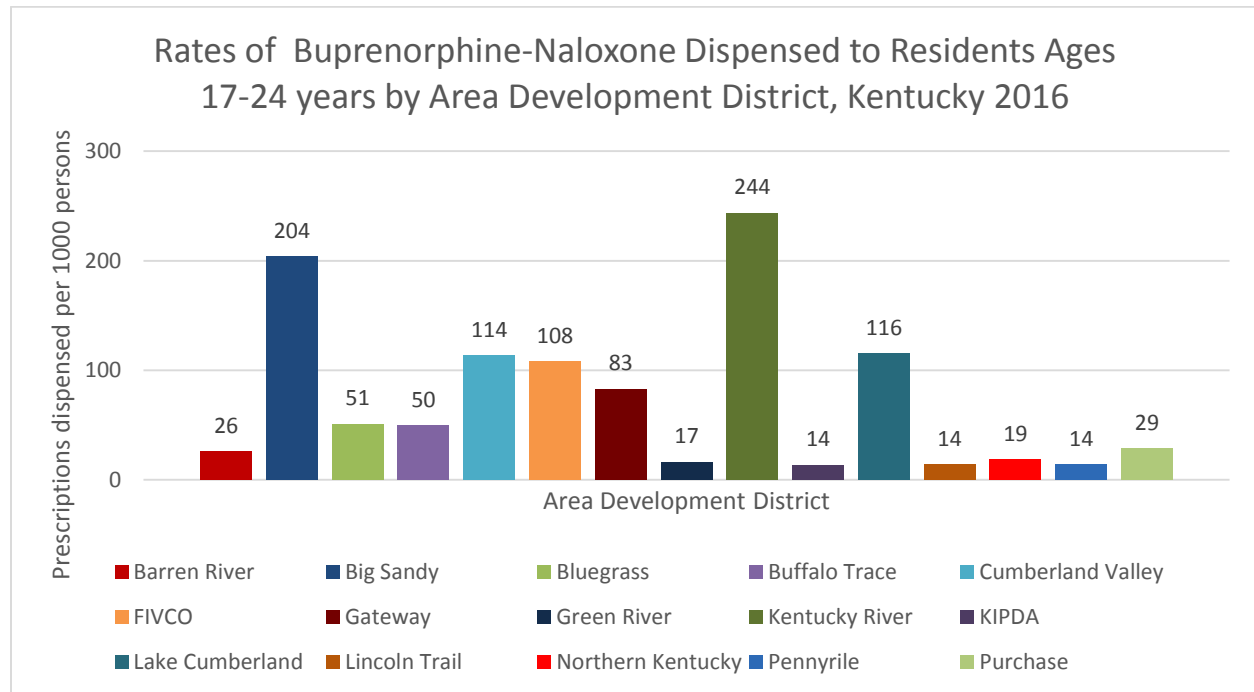


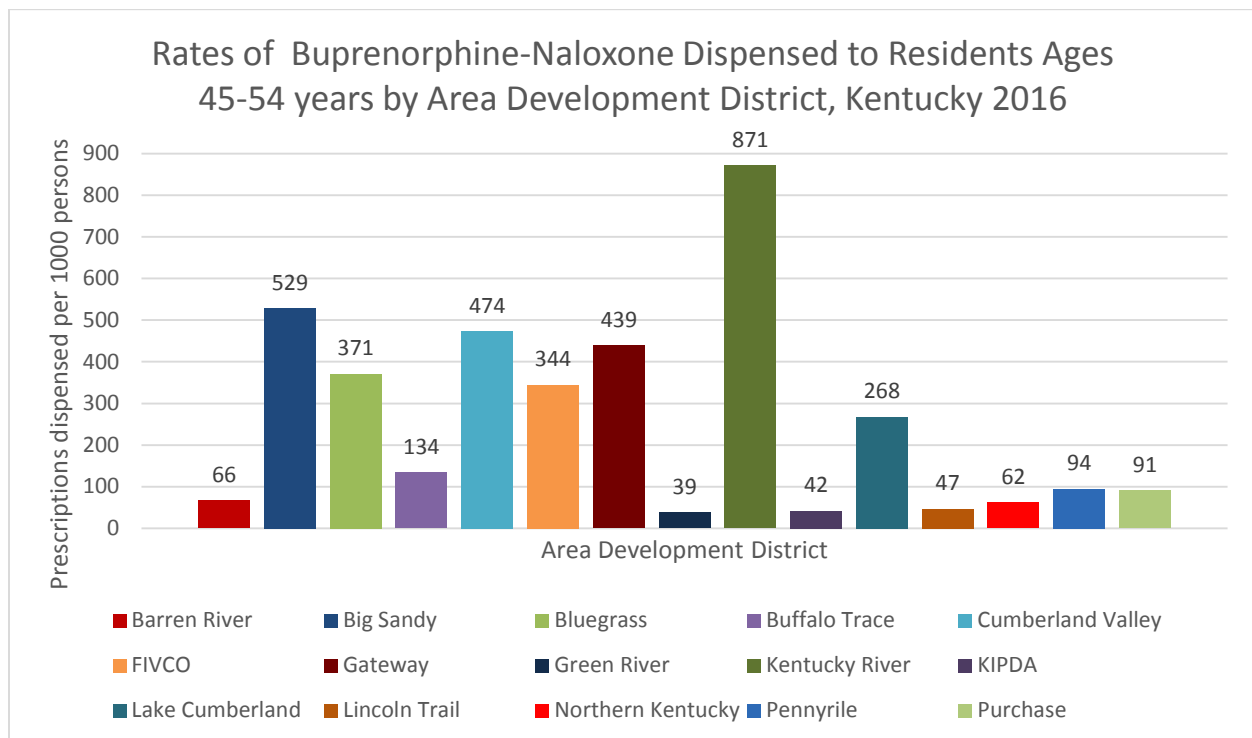
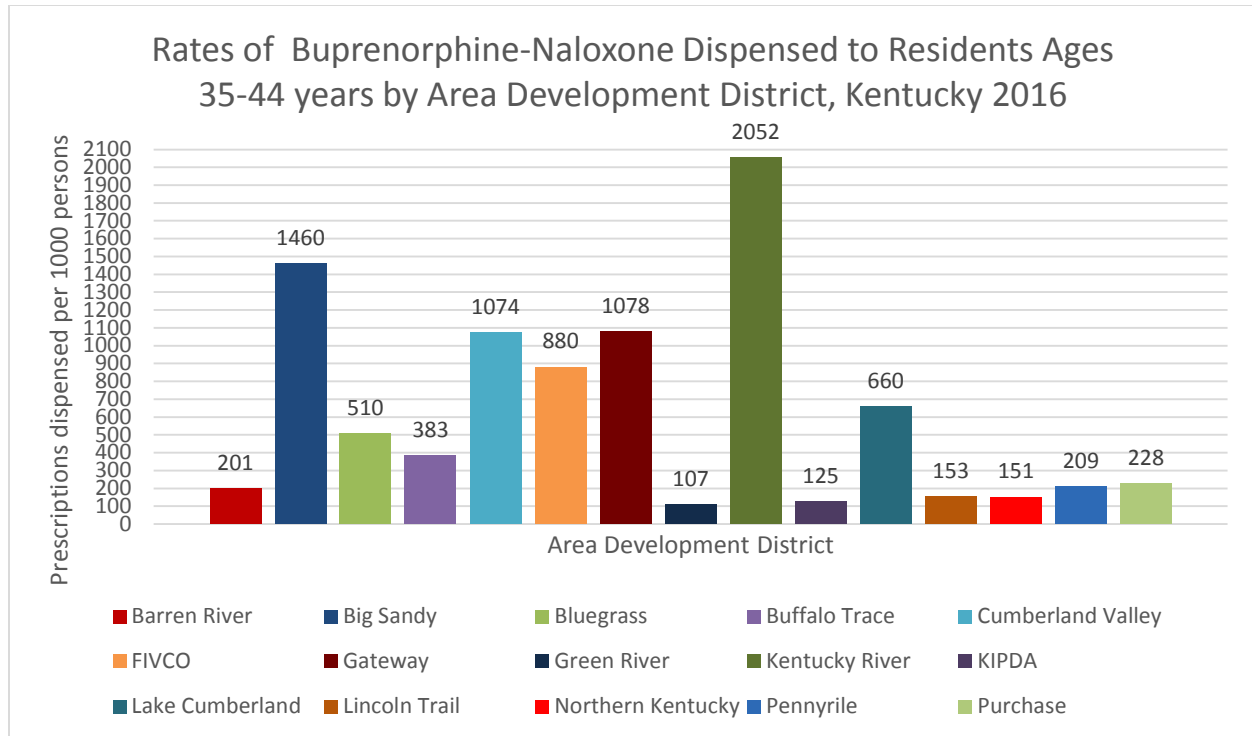
Rates of Oxycodone Prescriptions Dispensed to Residents Ages 65 years and older by Area Development District, Kentucky 2016

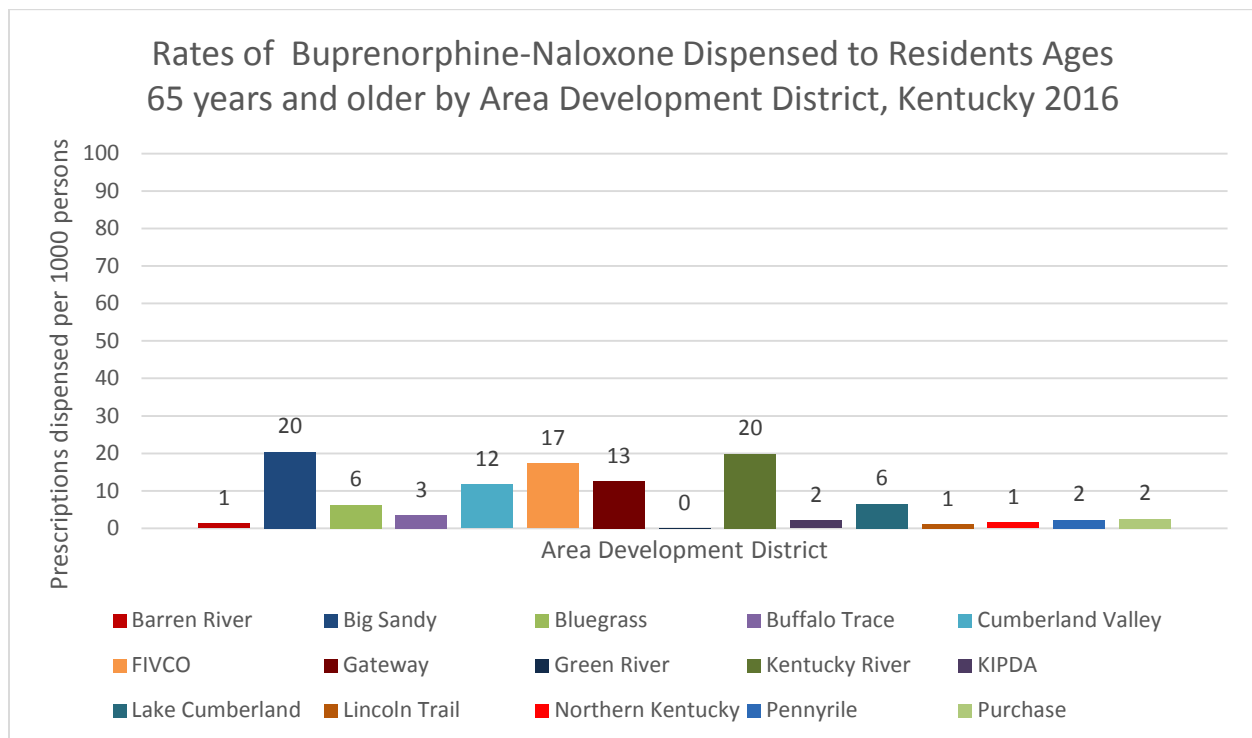
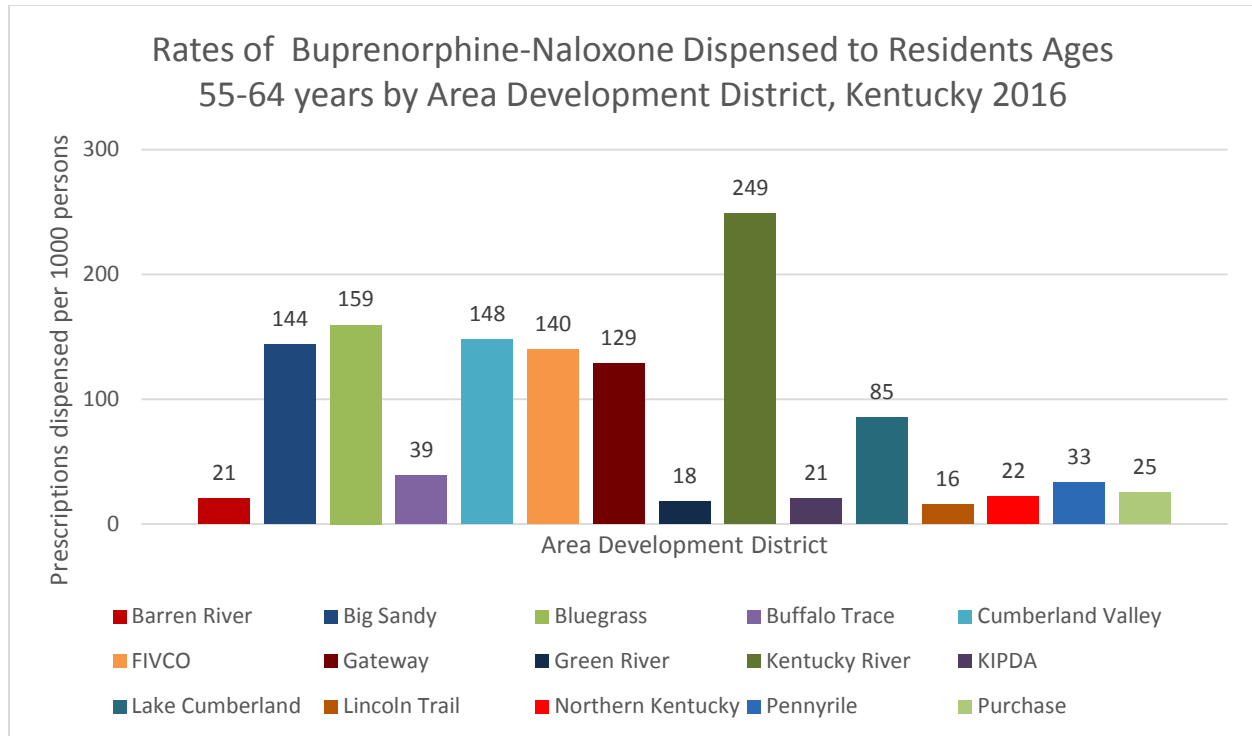


Buprenorphine-Naloxone by Age and Area Development District

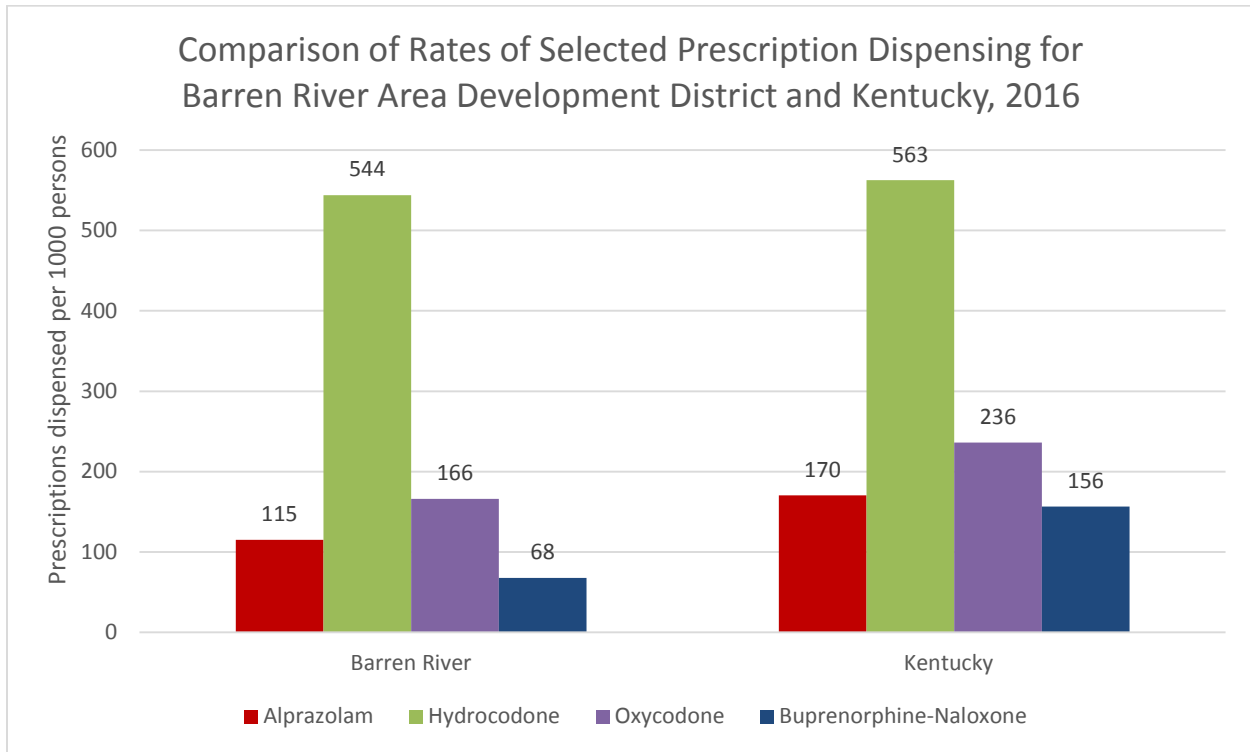
No graph was produced for Buprenorphine-Naloxone Dispensed to Residents Ages 0-16 due to low dispensing volumes to this age group.



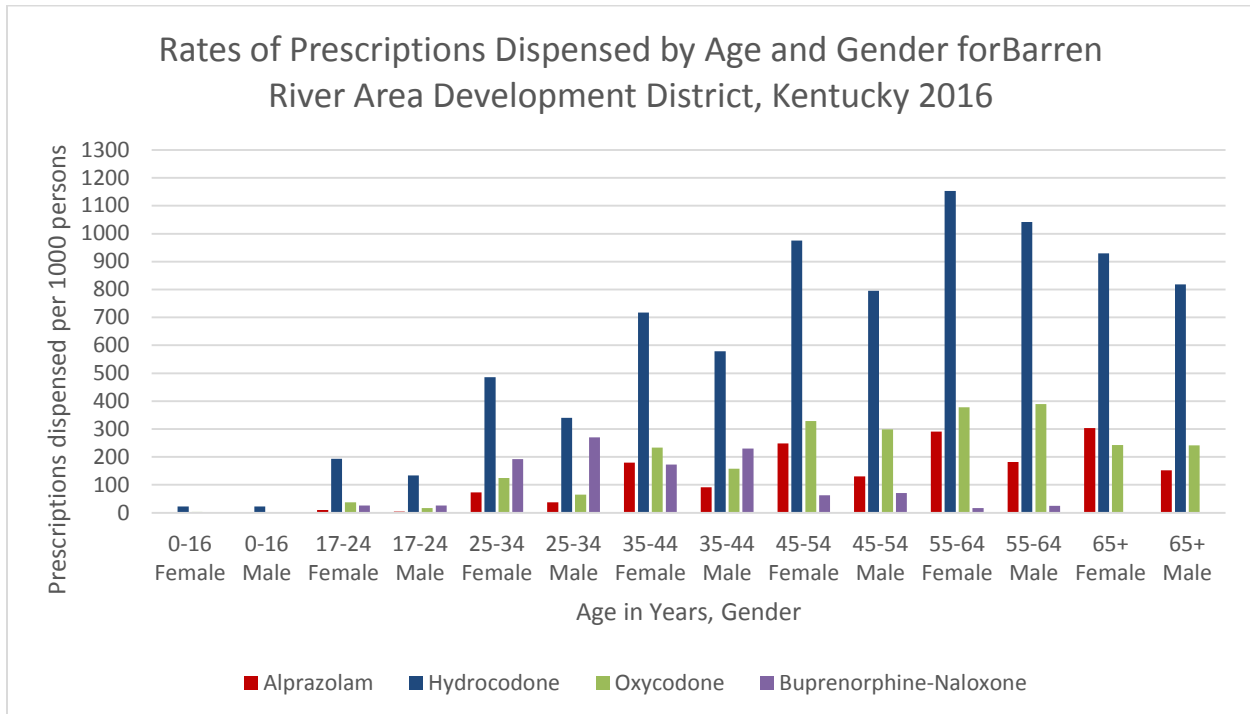




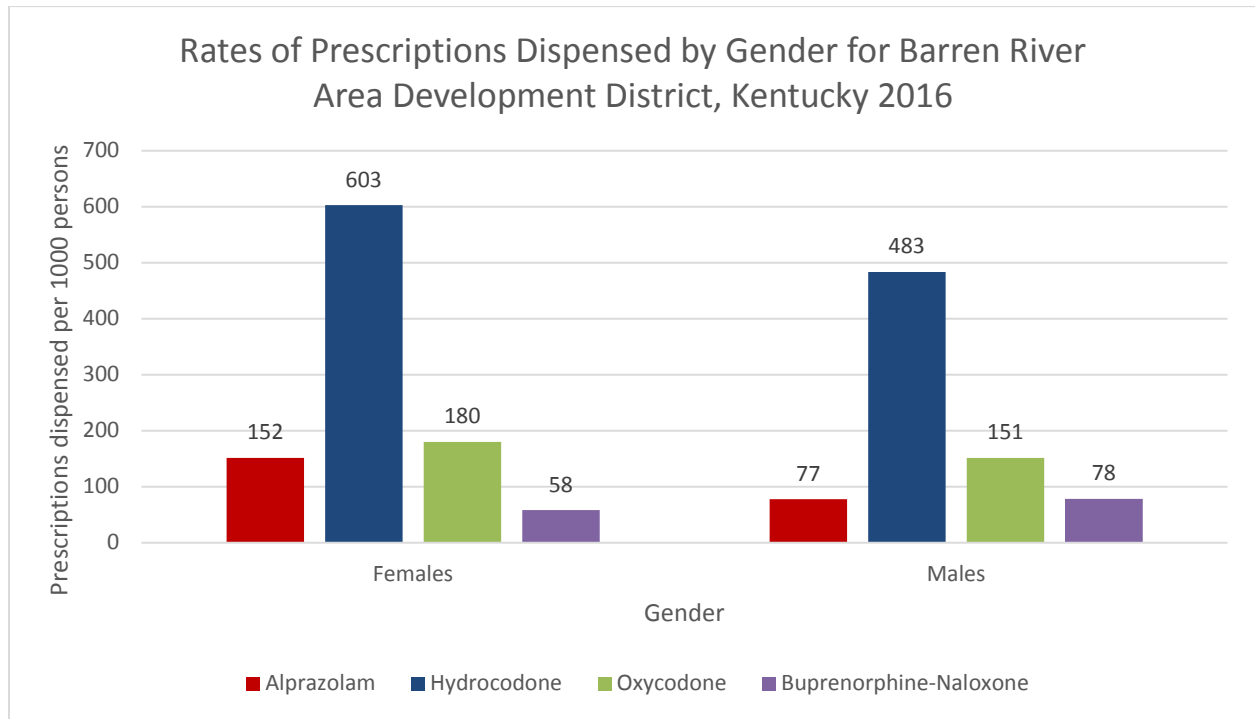
Barren River Area Development District



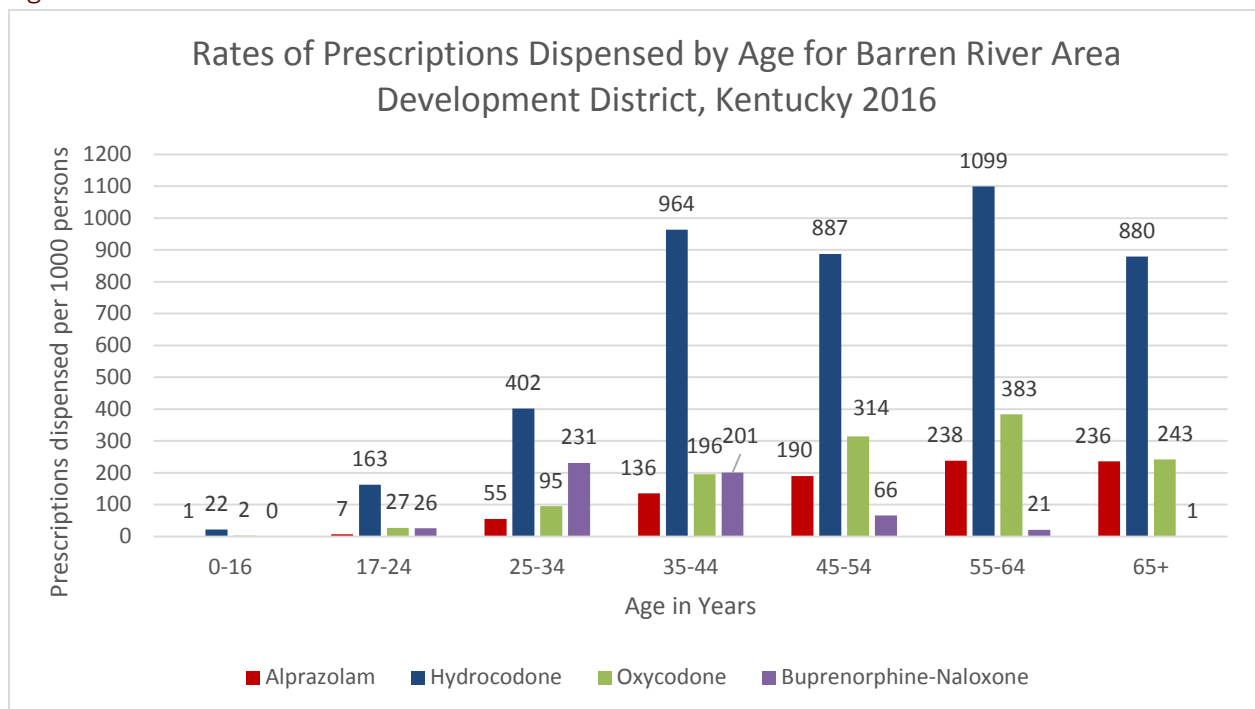
Age and Gender



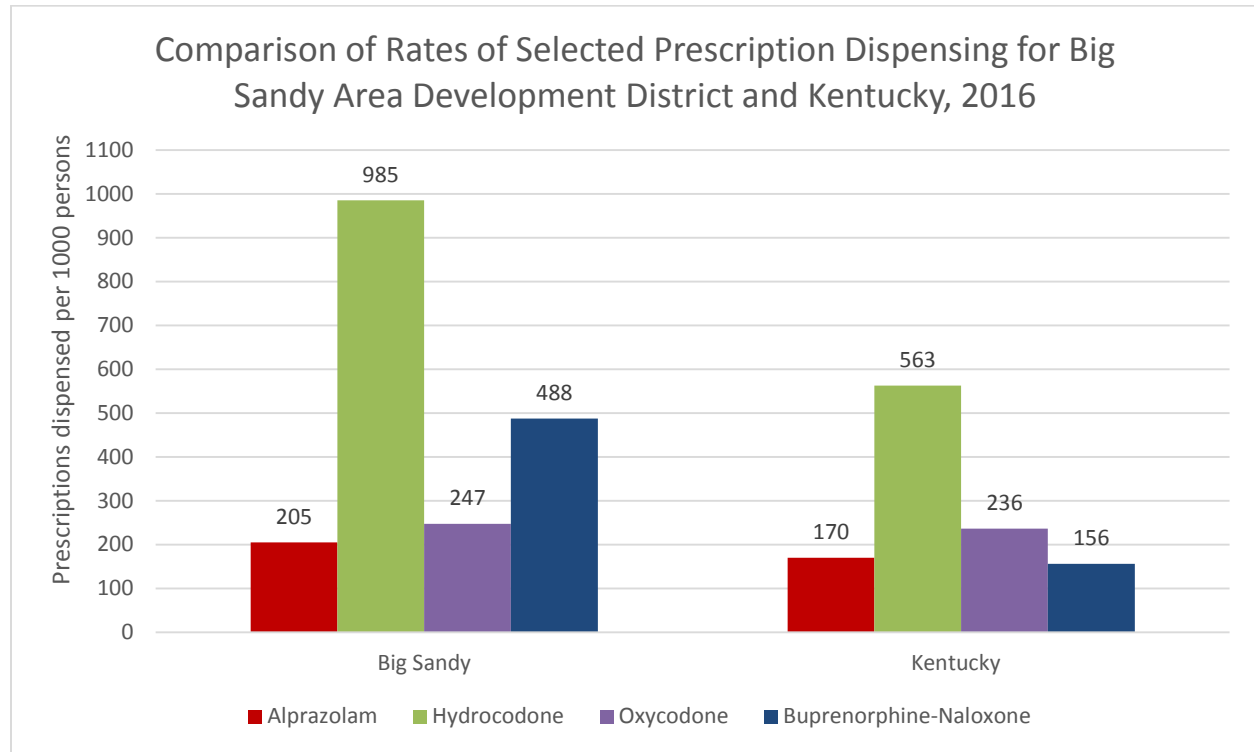
Gender



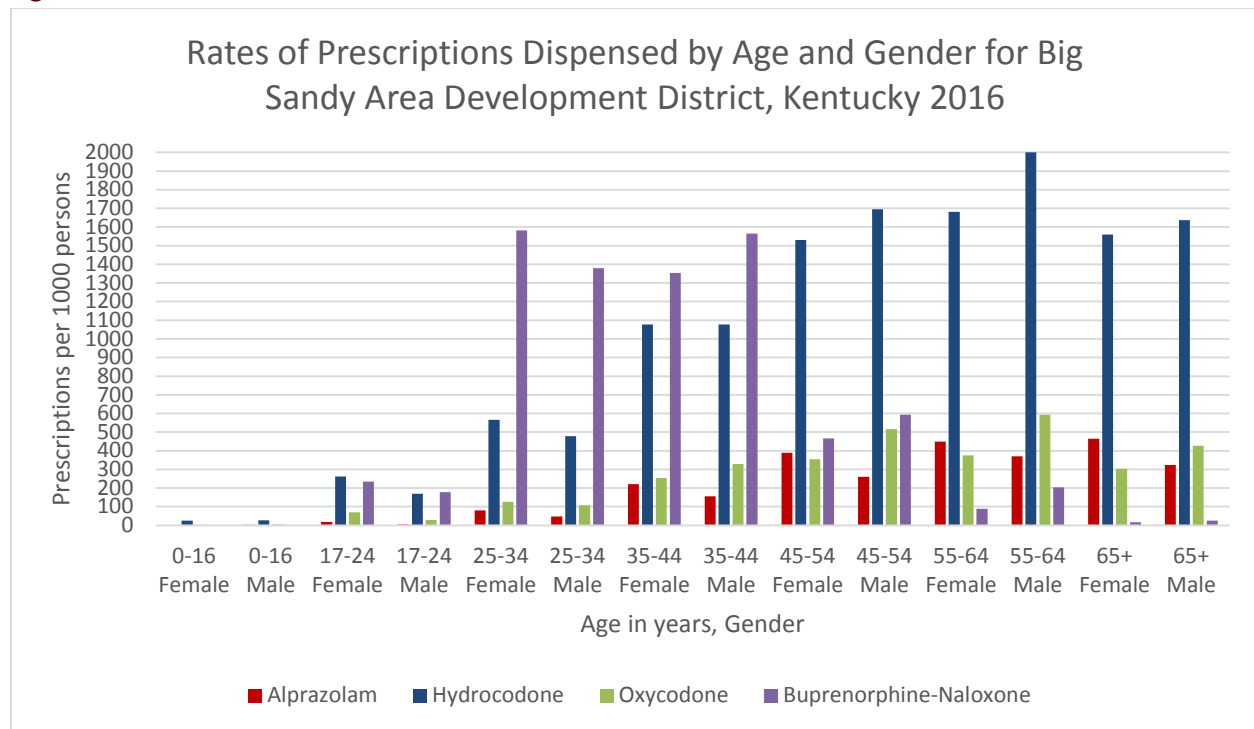
Age



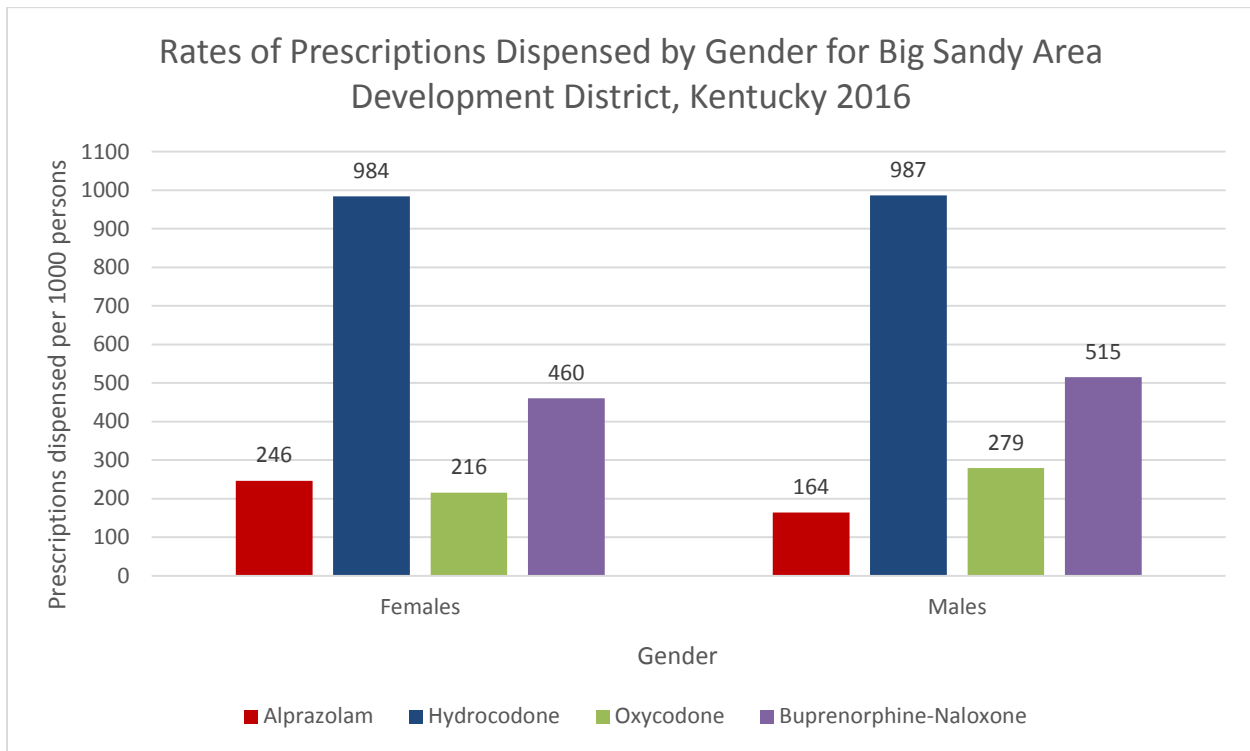
Big Sandy Area Development District



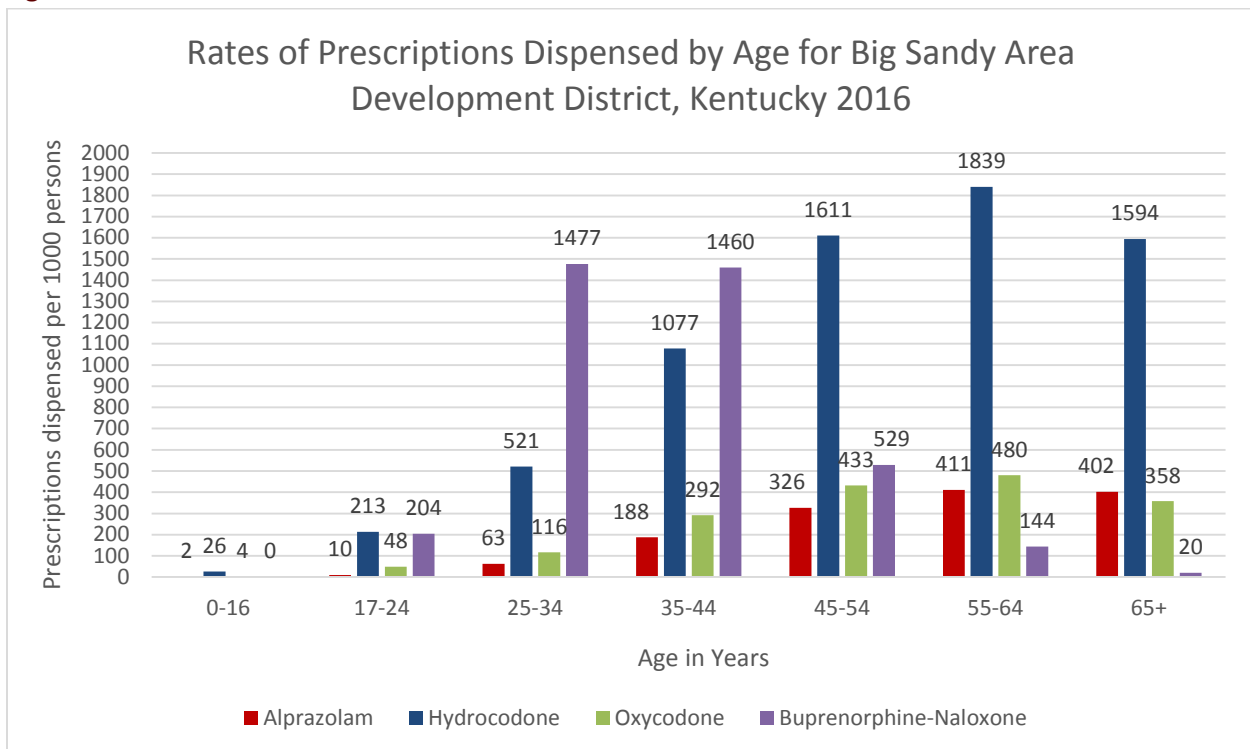
Age and Gender



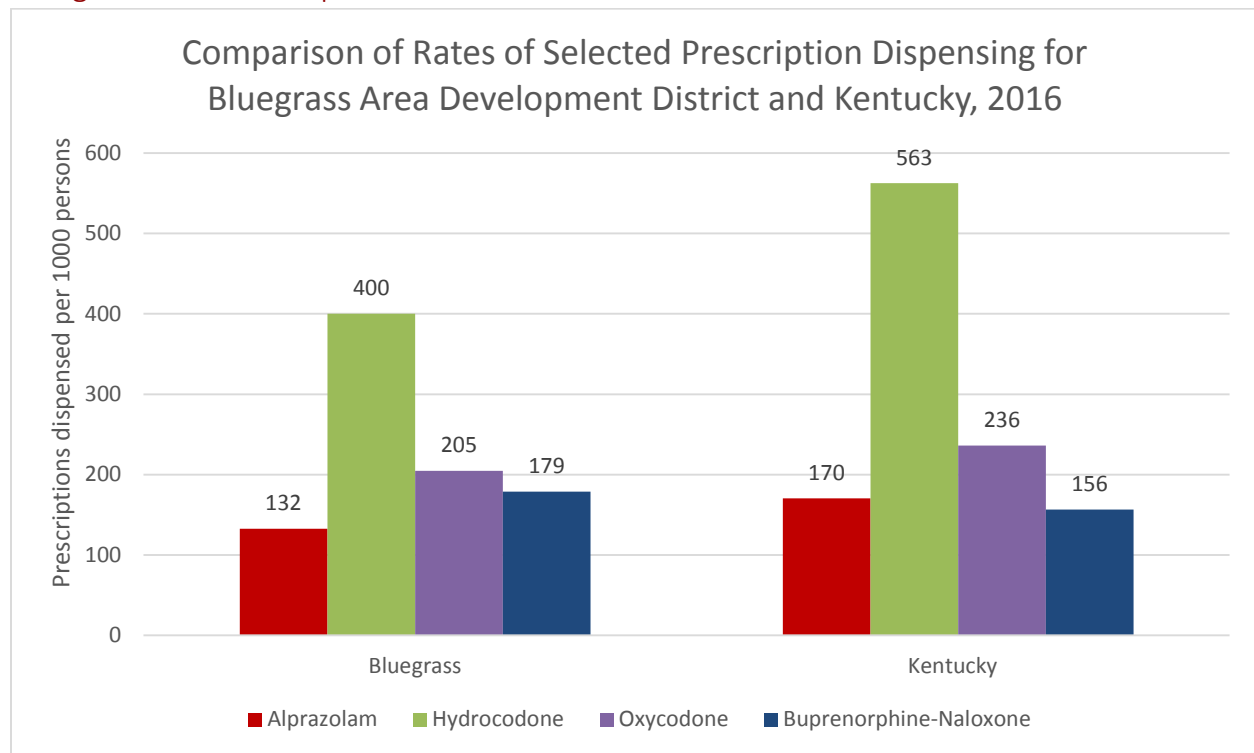
Gender



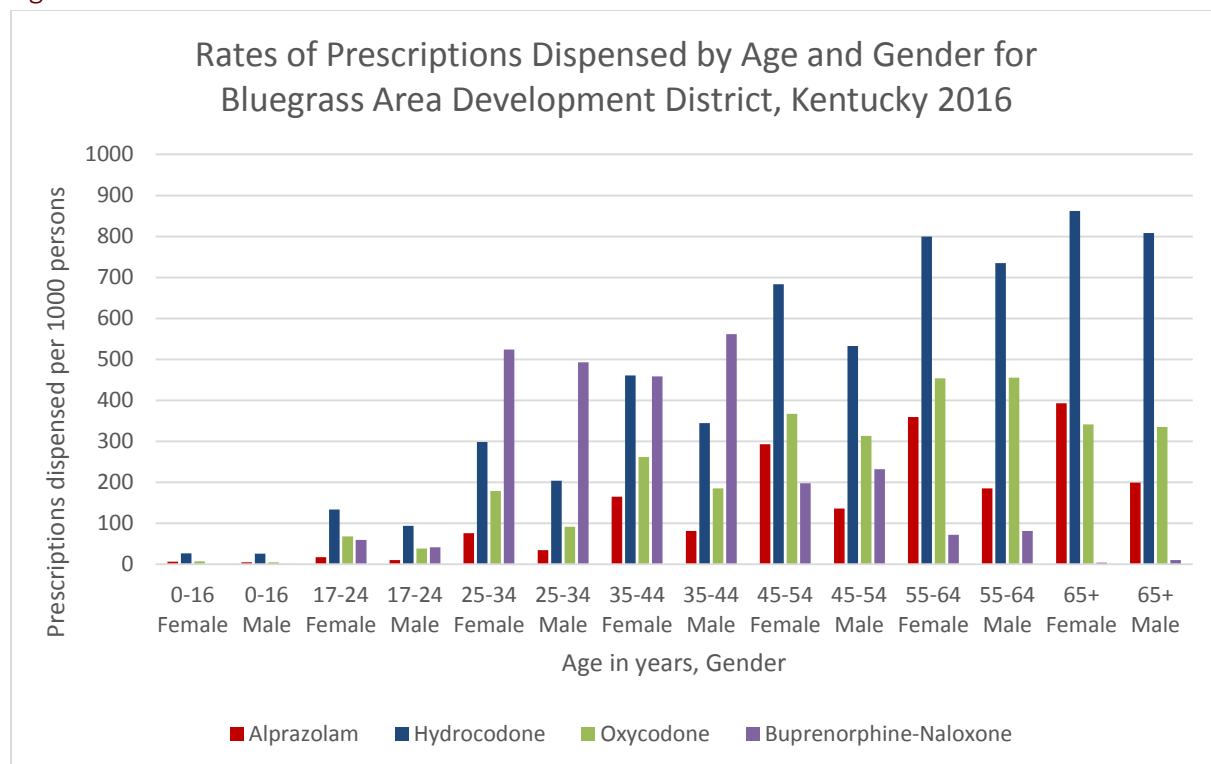
Age



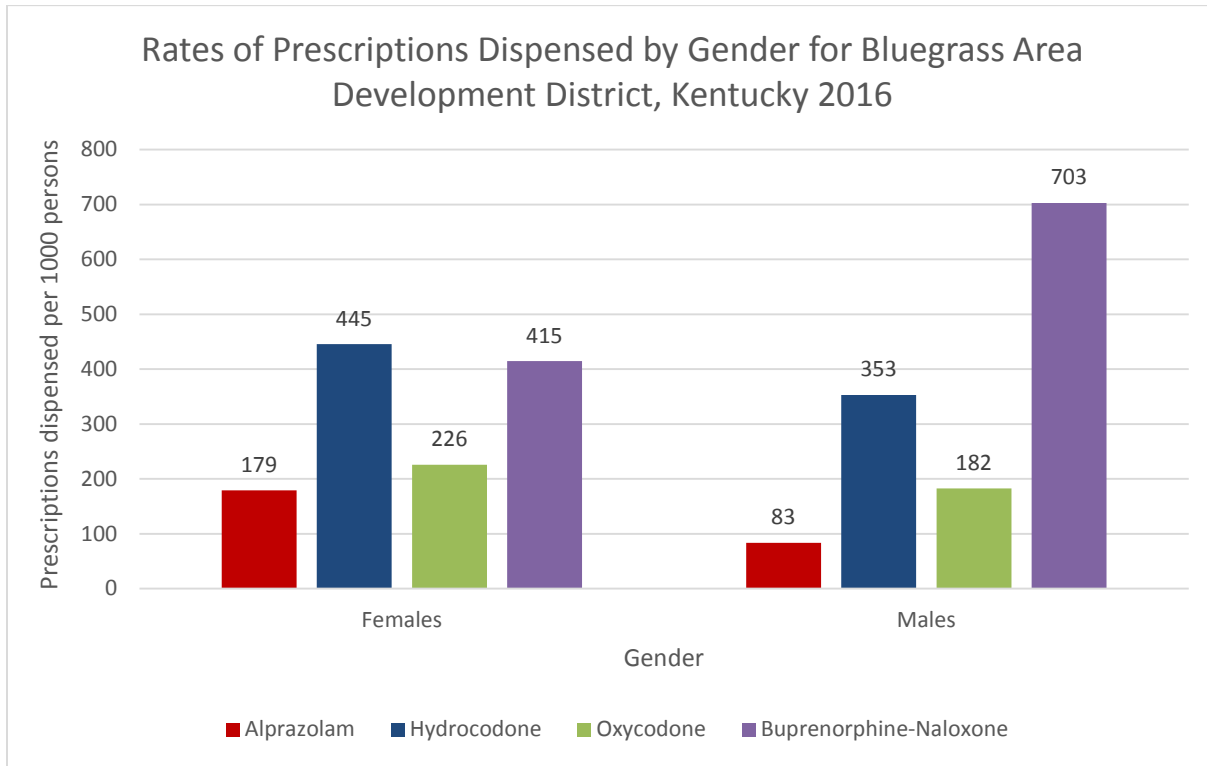
Bluegrass Area Development District



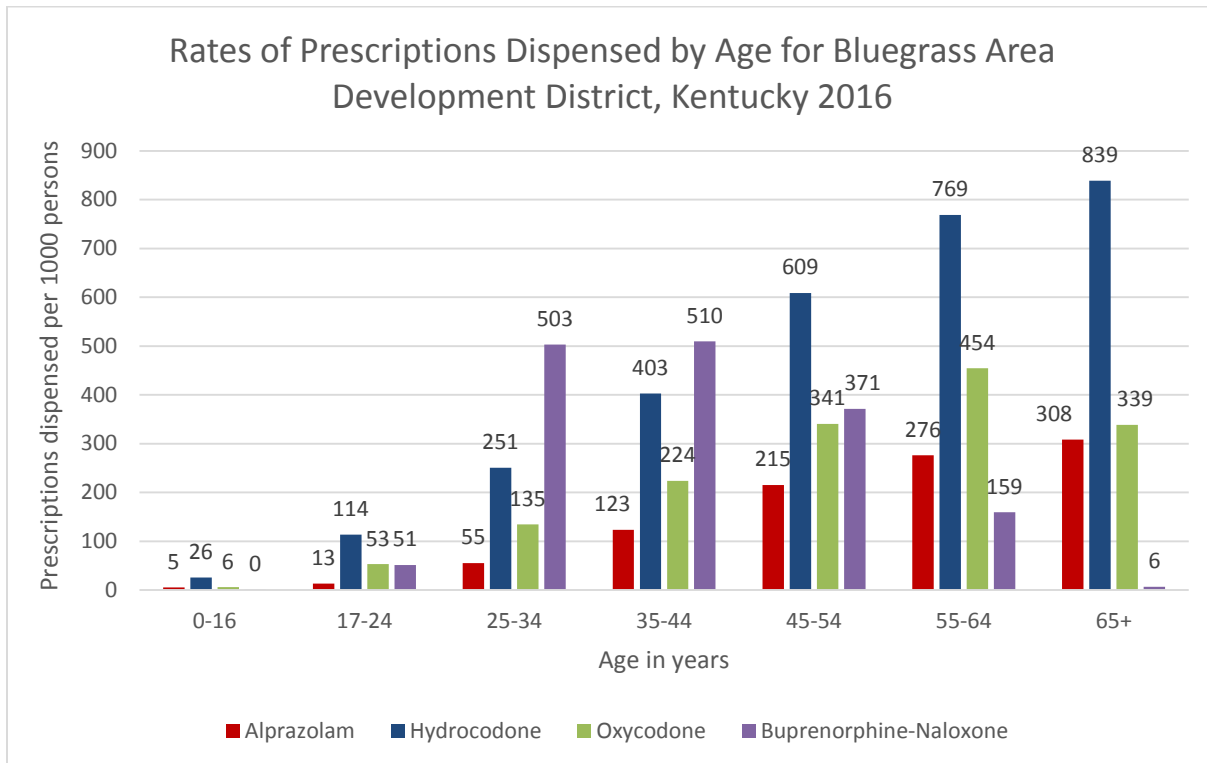
Age and Gender



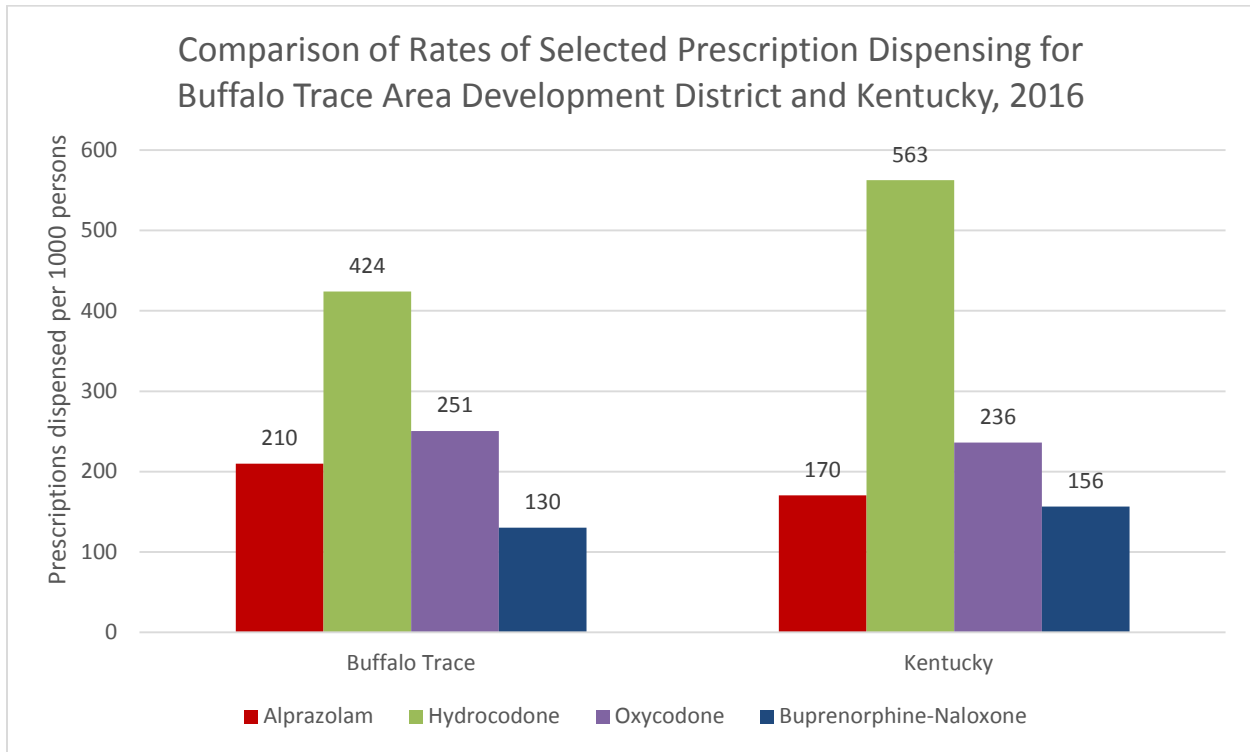
Gender



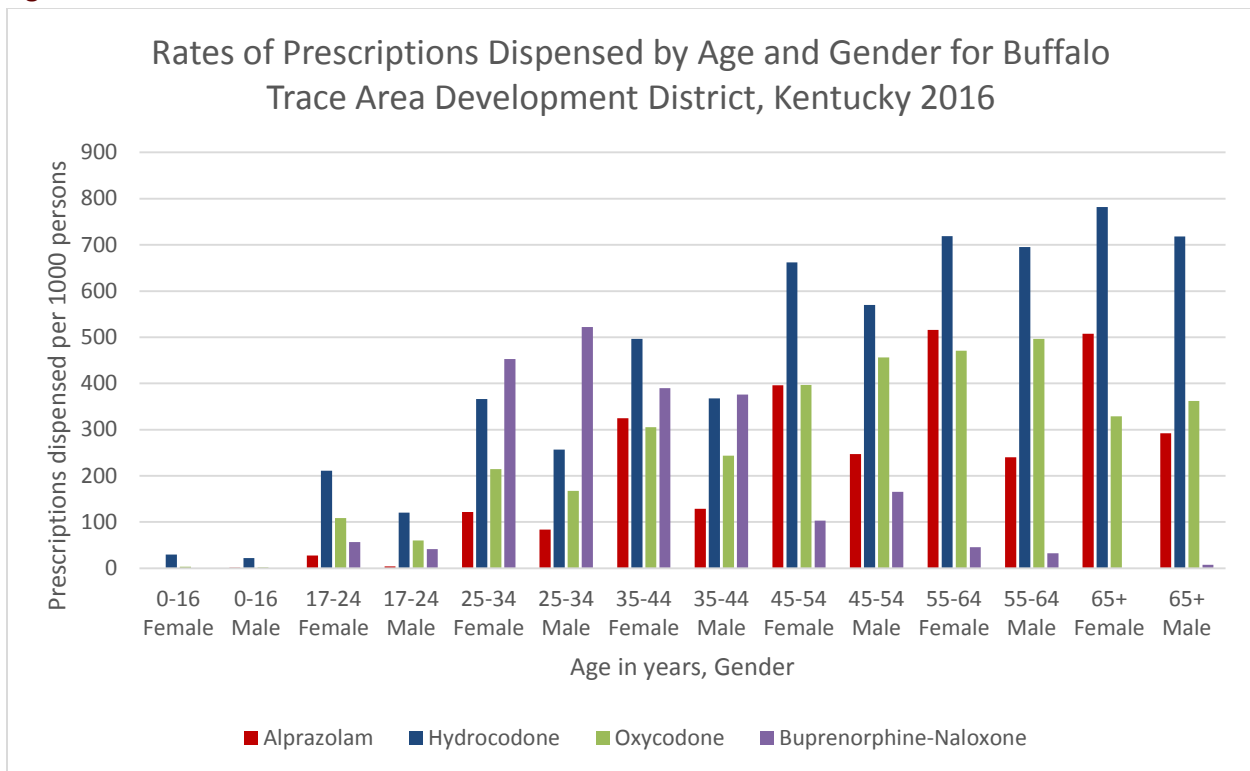
Age



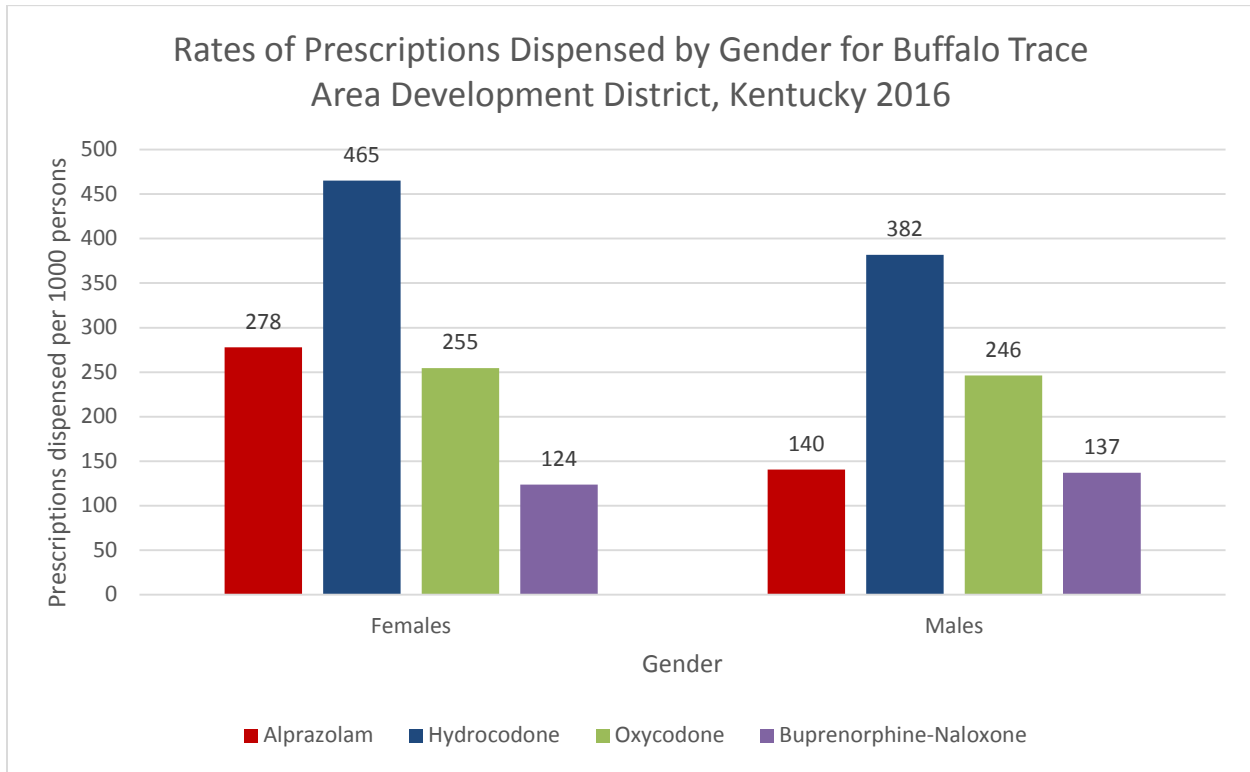
Buffalo Trace Area Development District



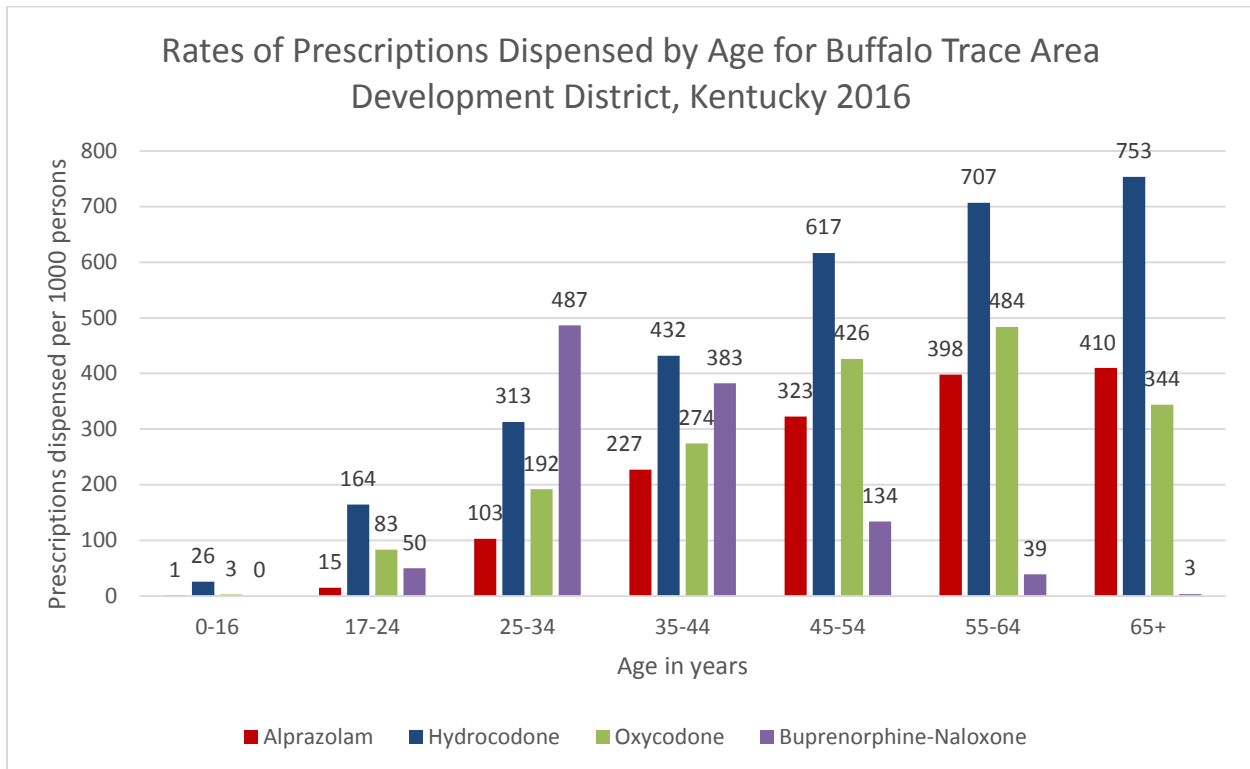
Age and Gender



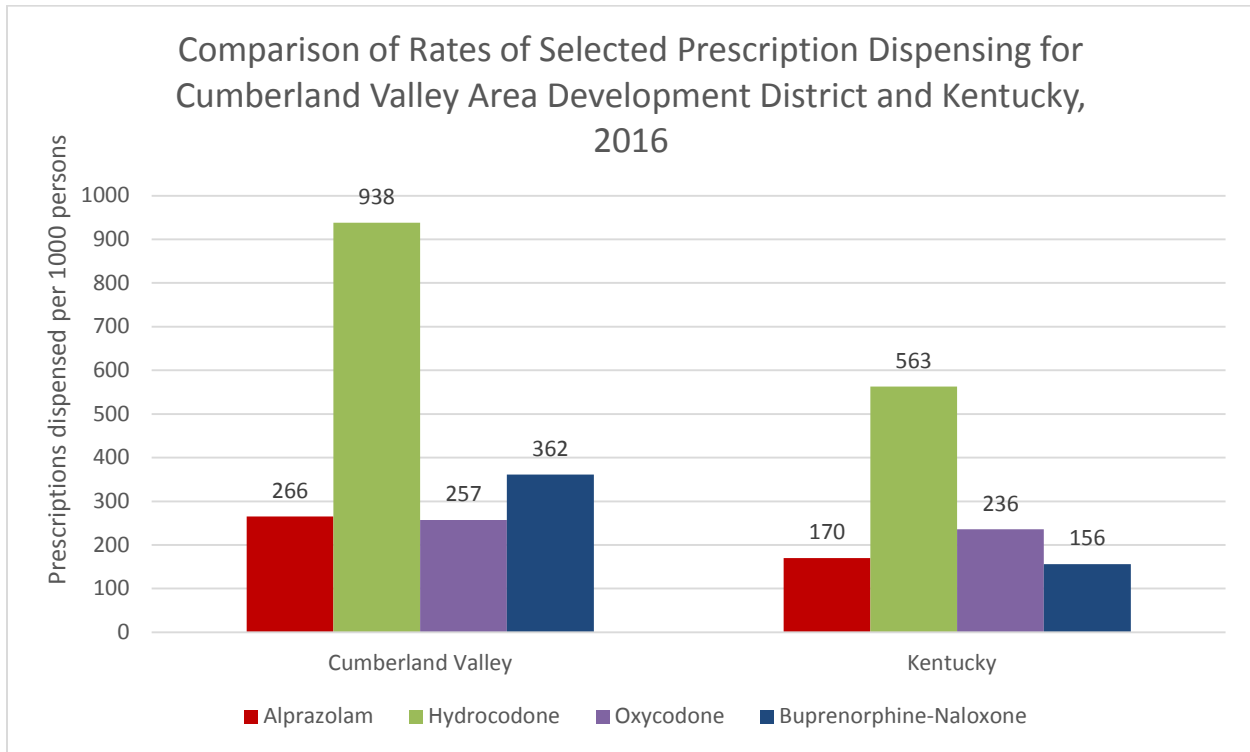
Gender



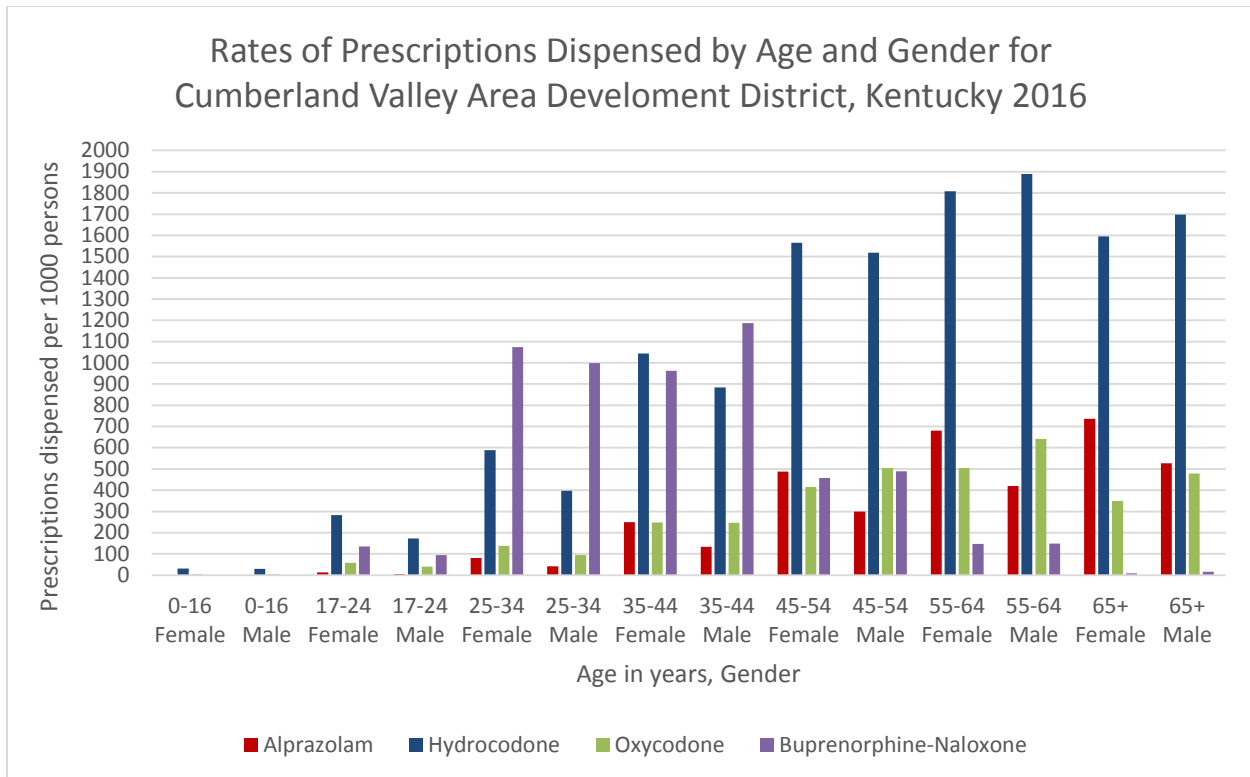
Age



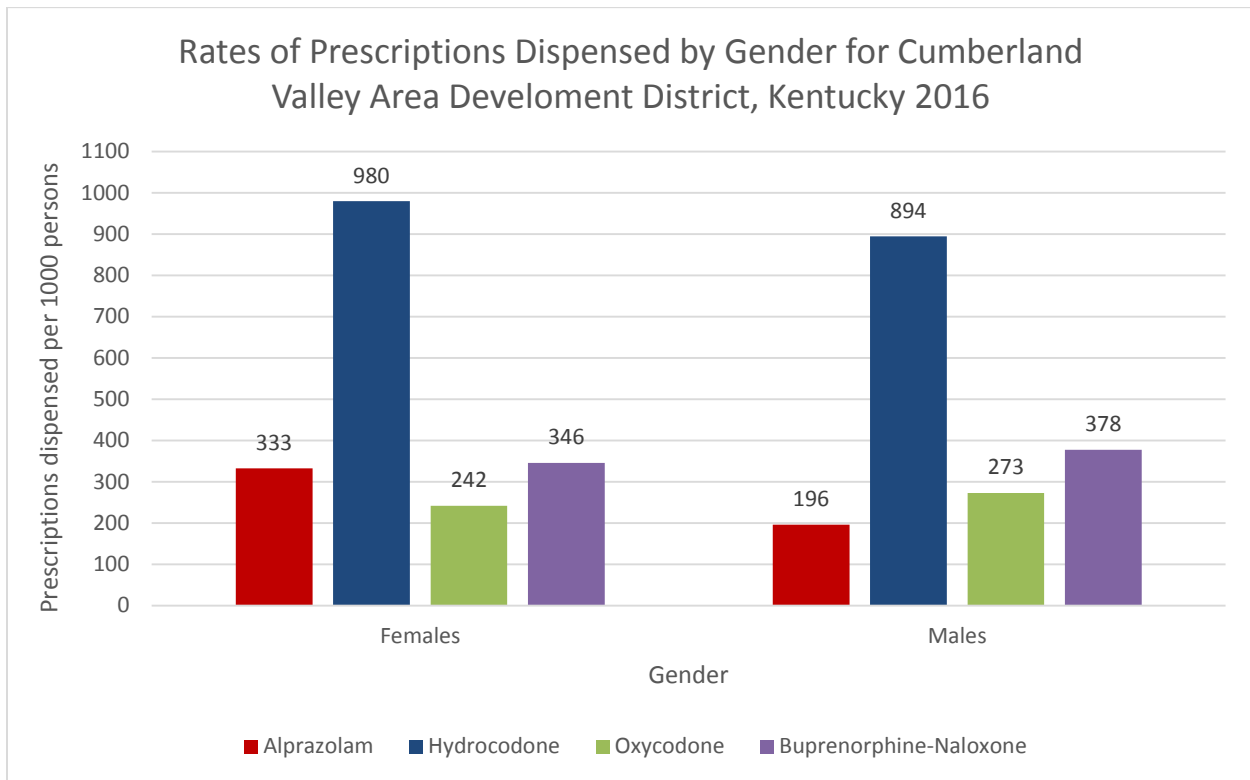
Cumberland Valley Area Development District



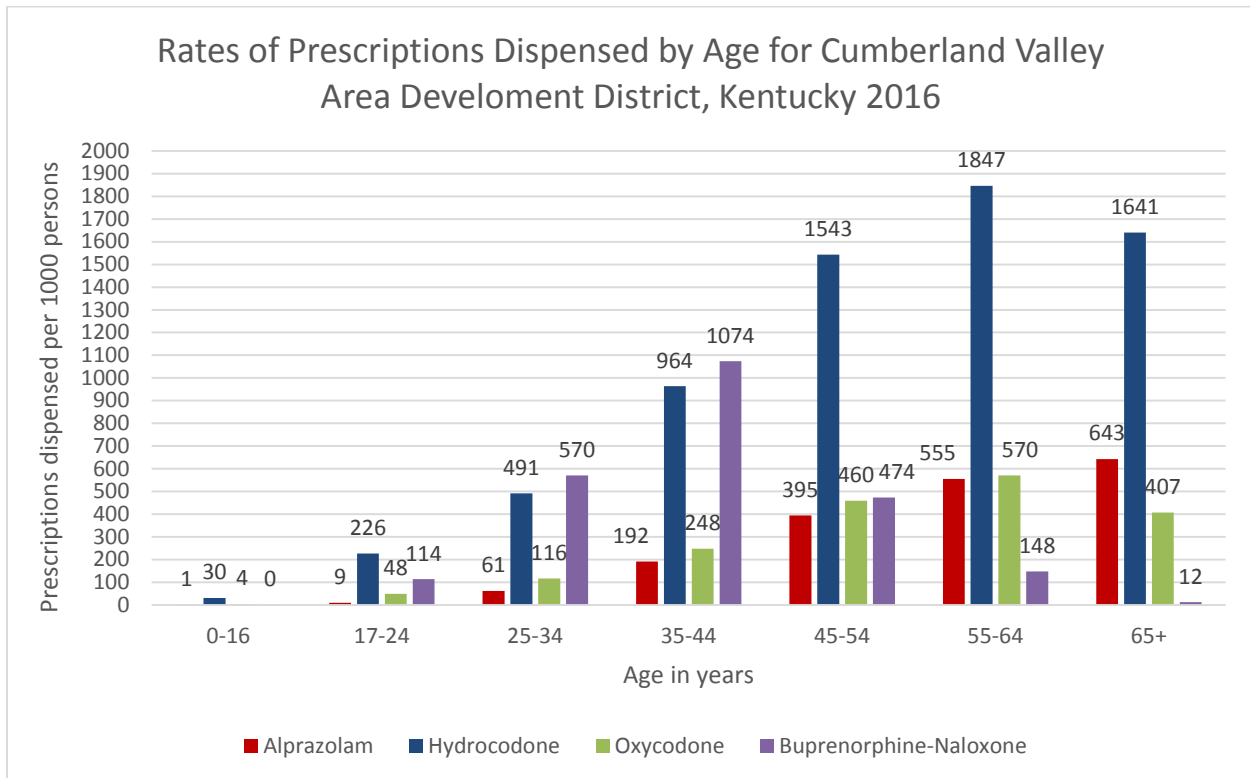
Age and Gender



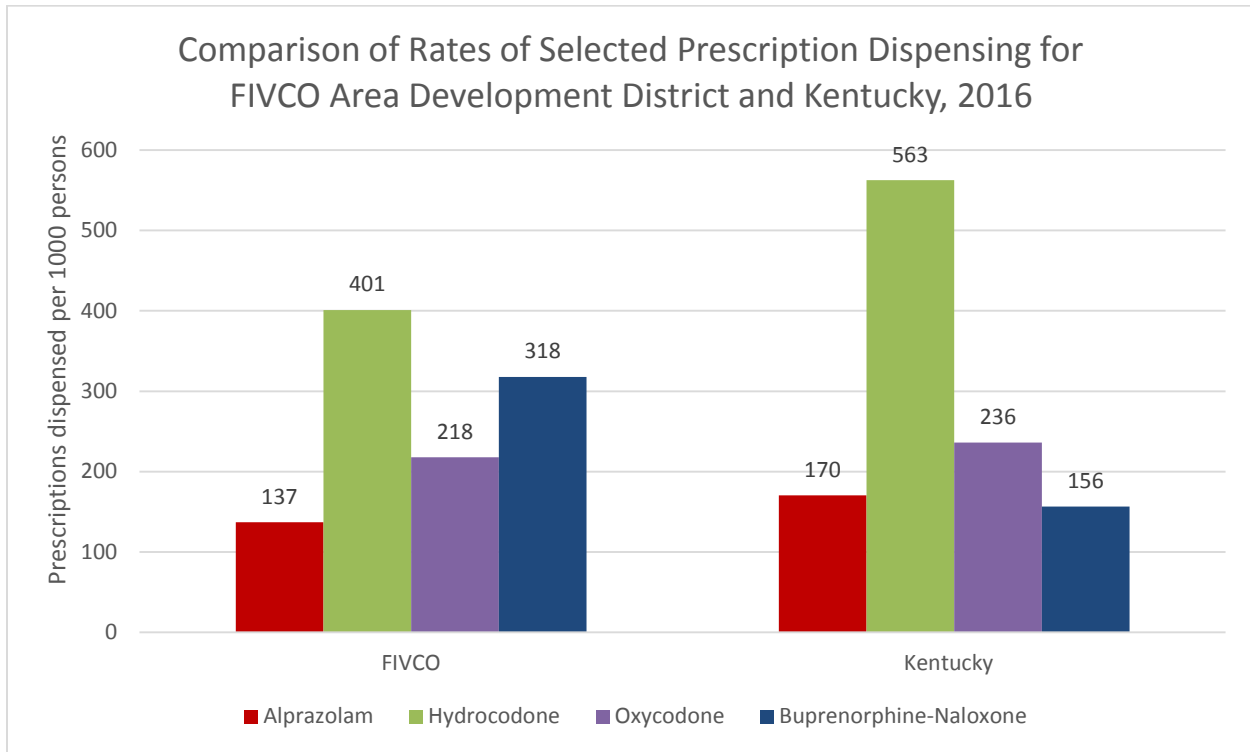
Gender



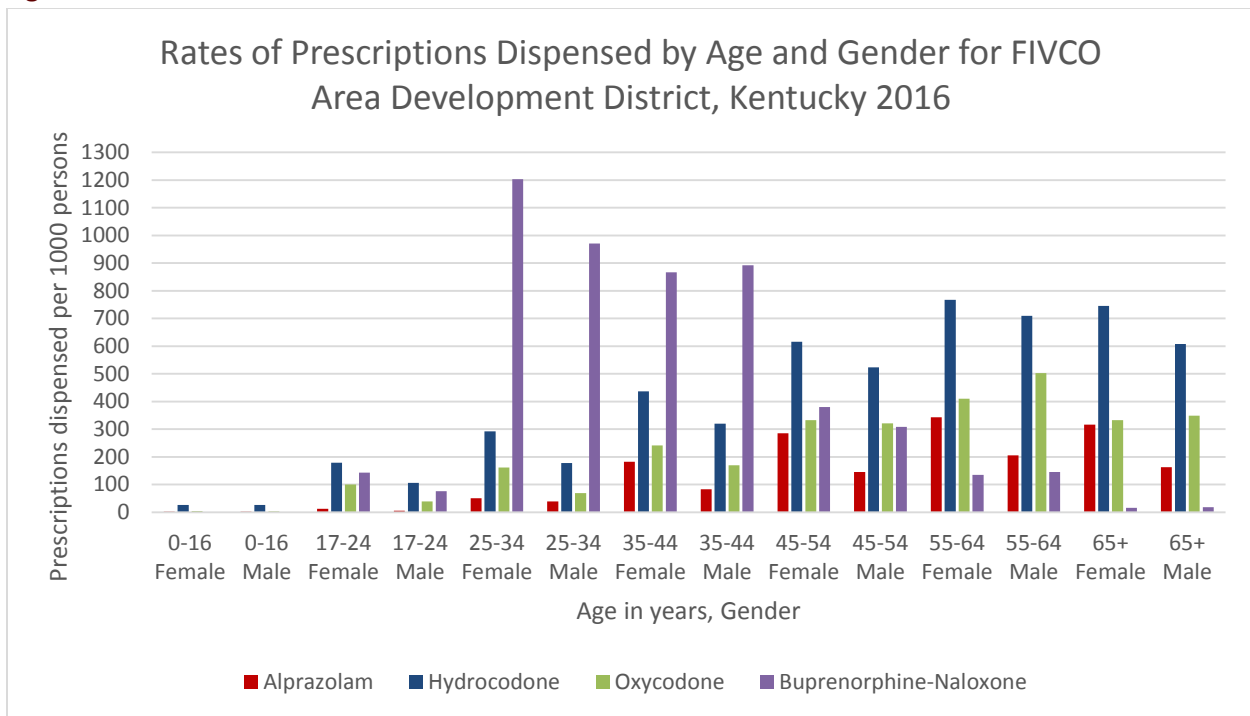
Age



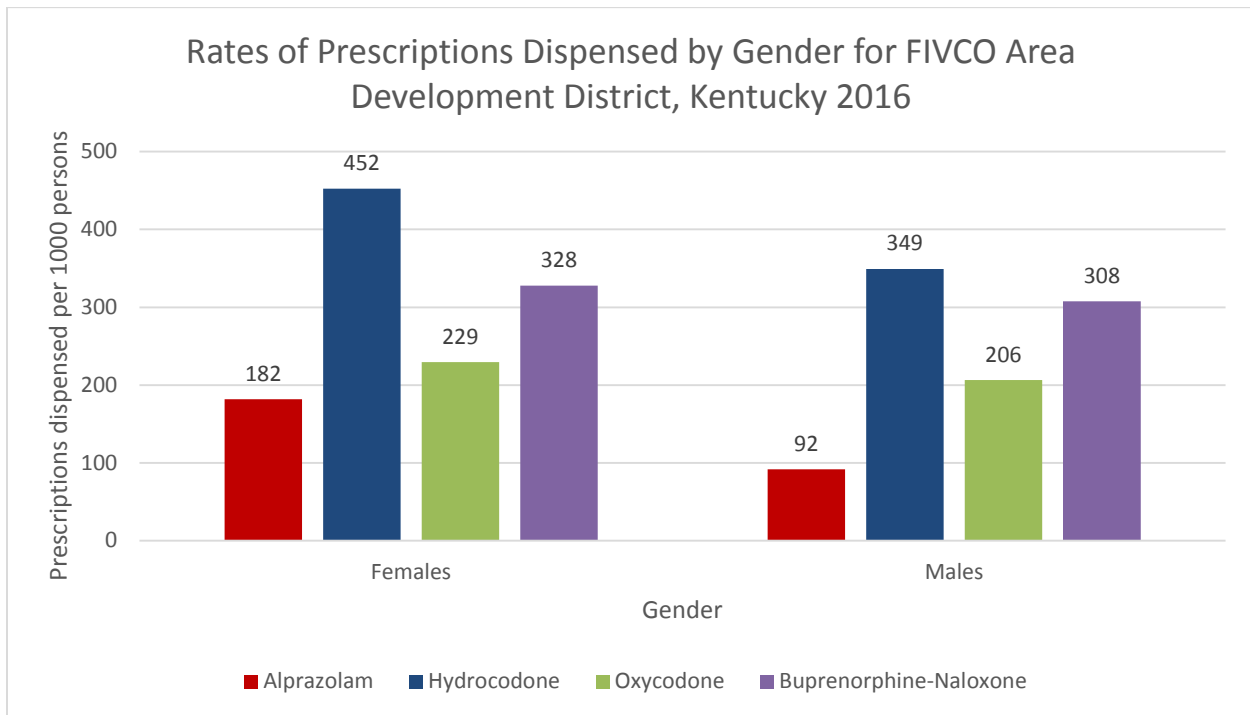
FIVCO Area Development District



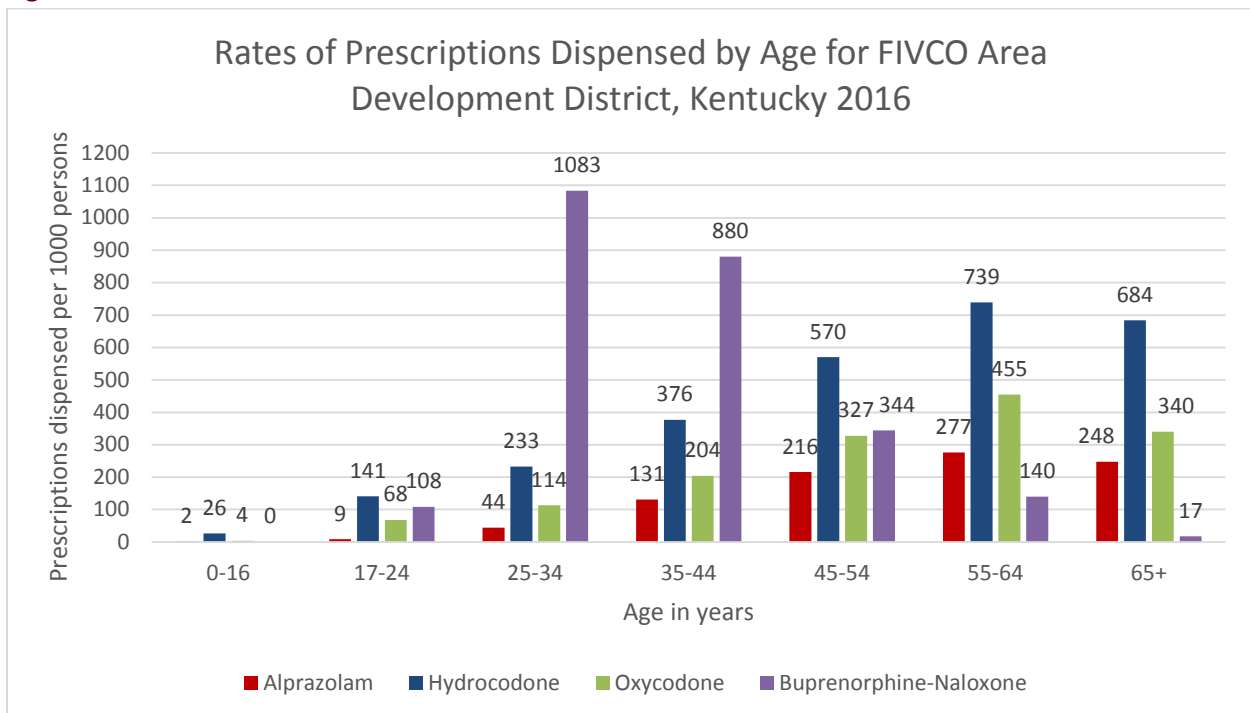
Age and Gender



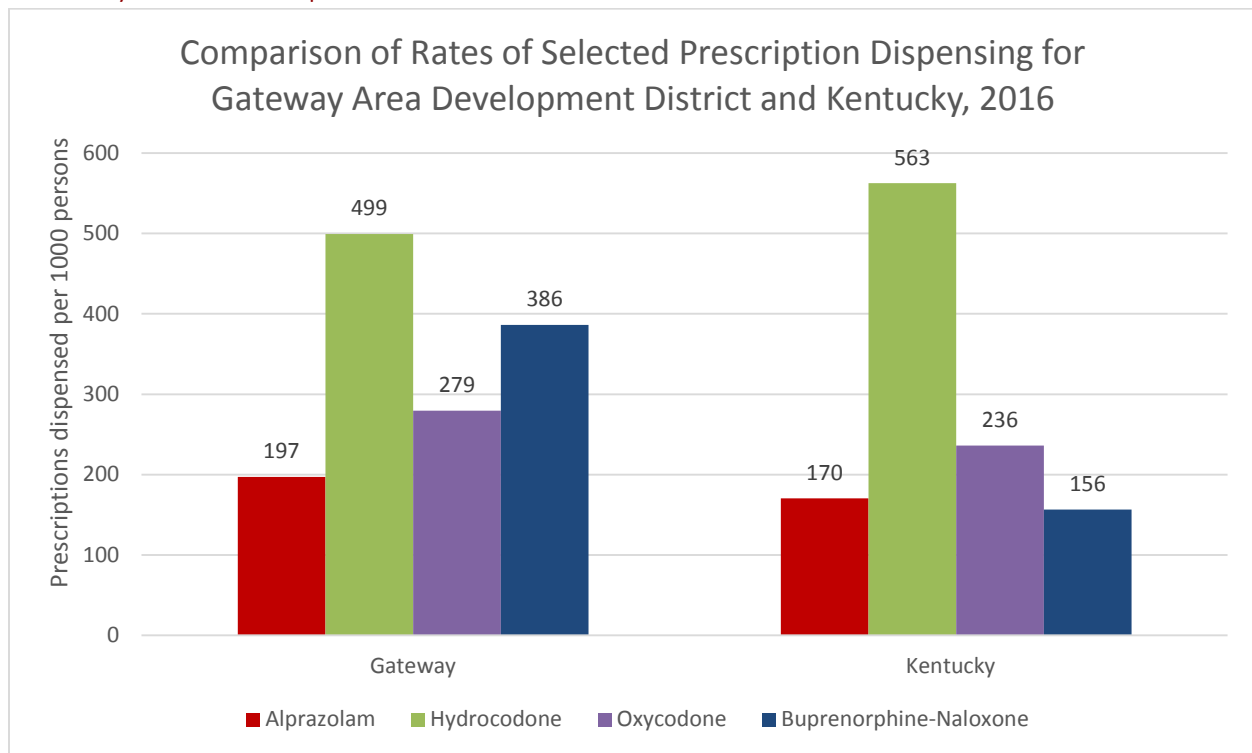
Gender



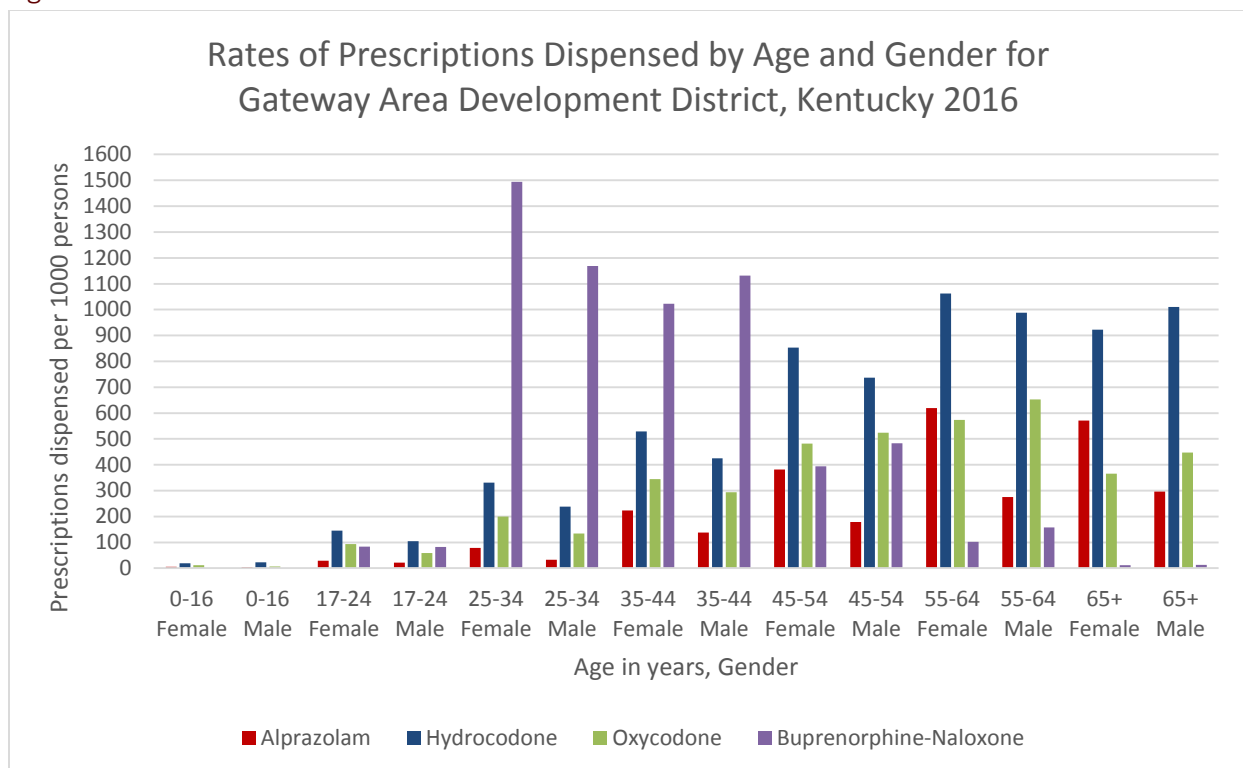
Age



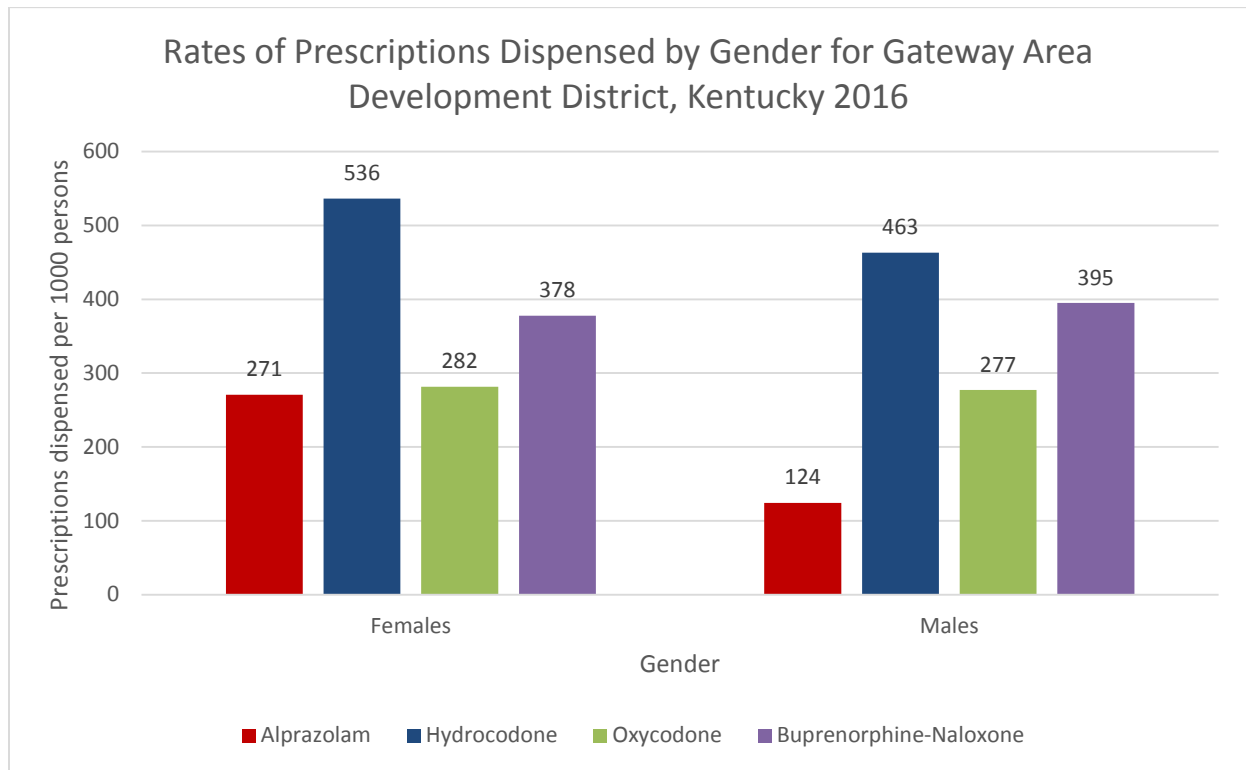
Gateway Area Development District



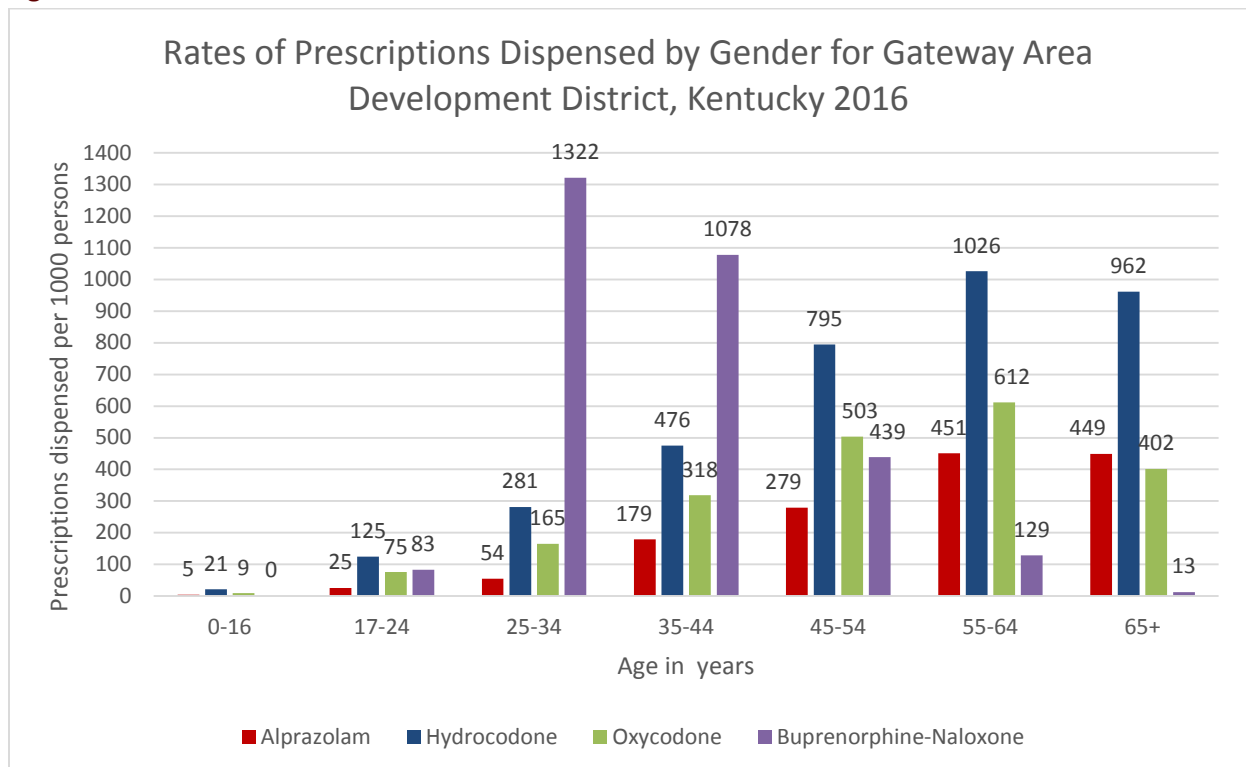
Age and Gender



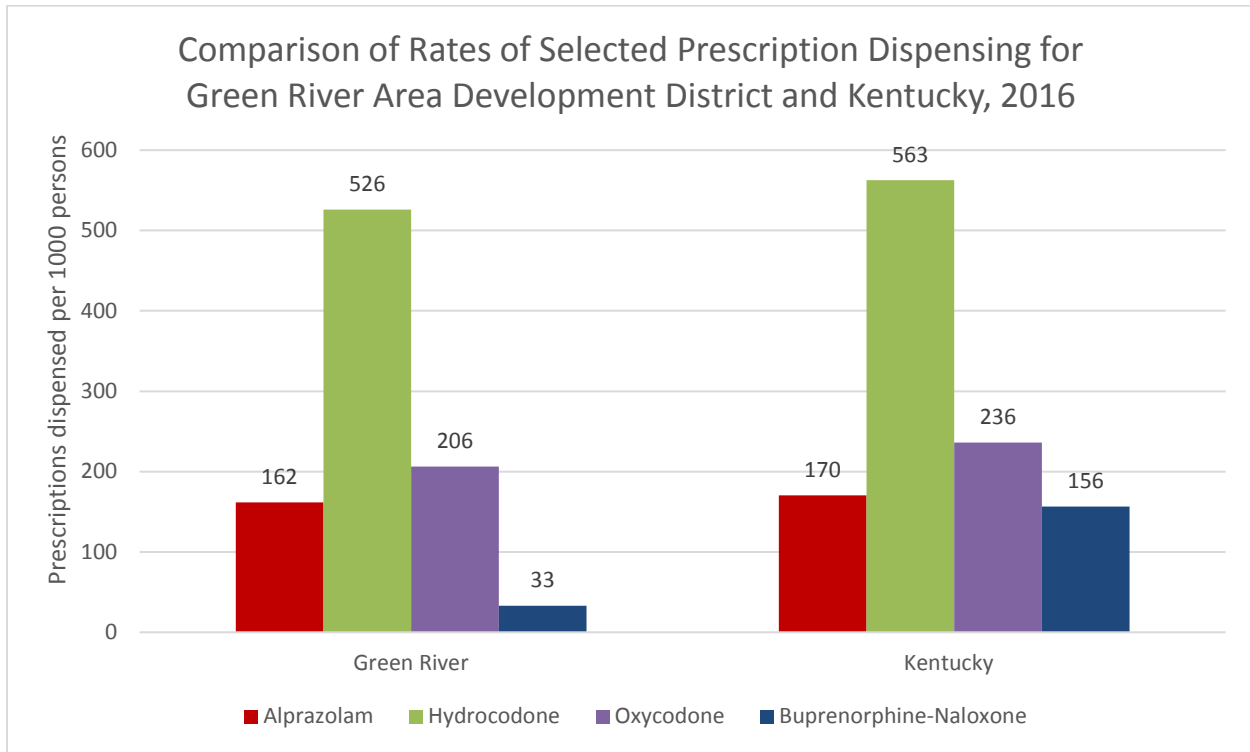
Gender



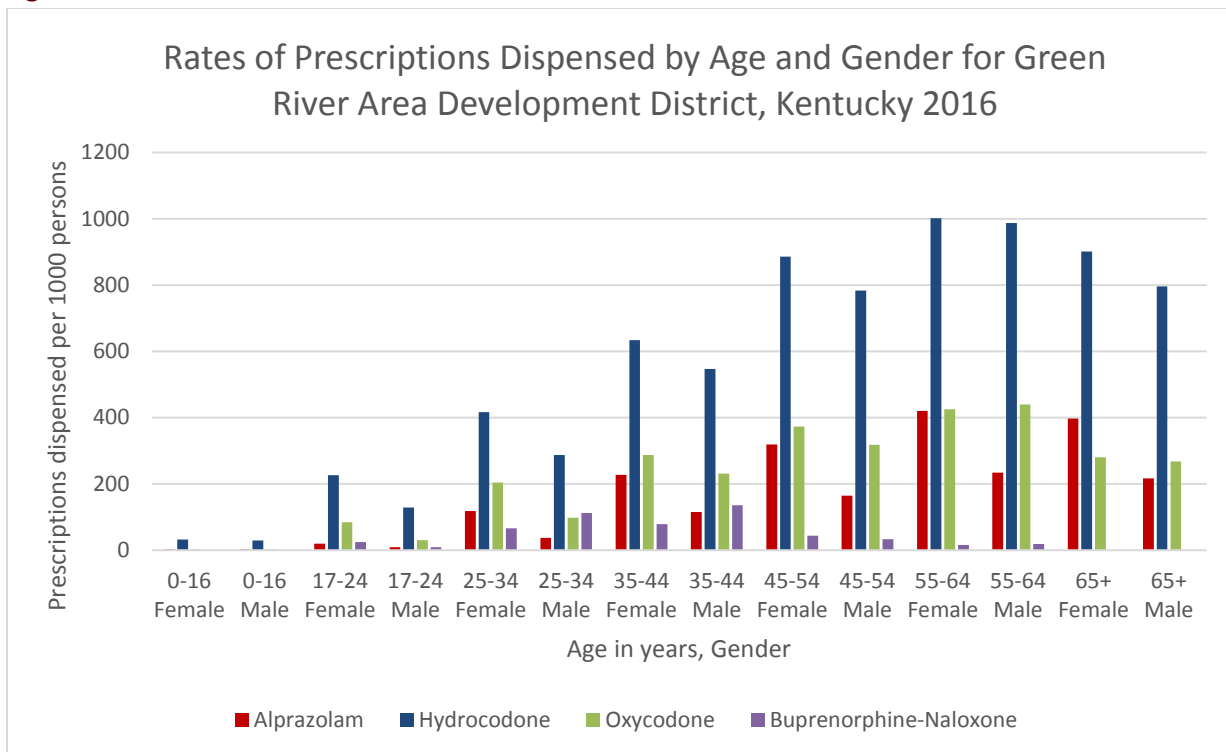
Age



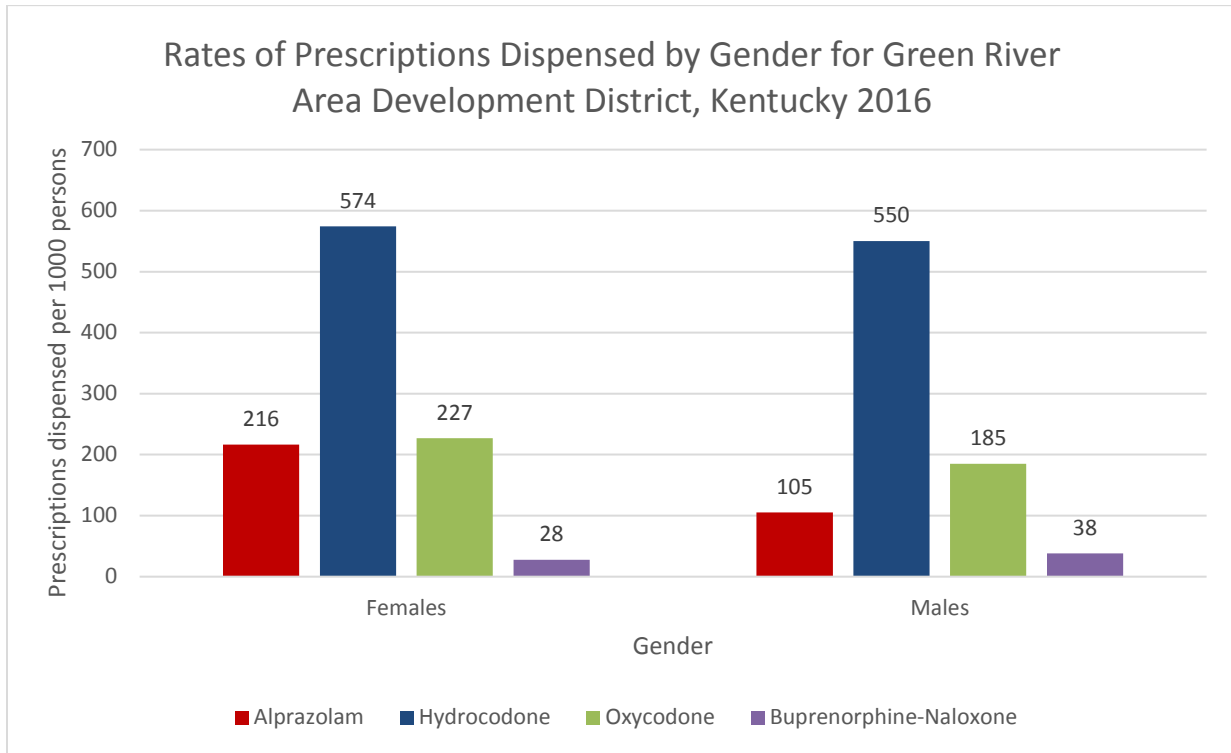
Green River Area Development District



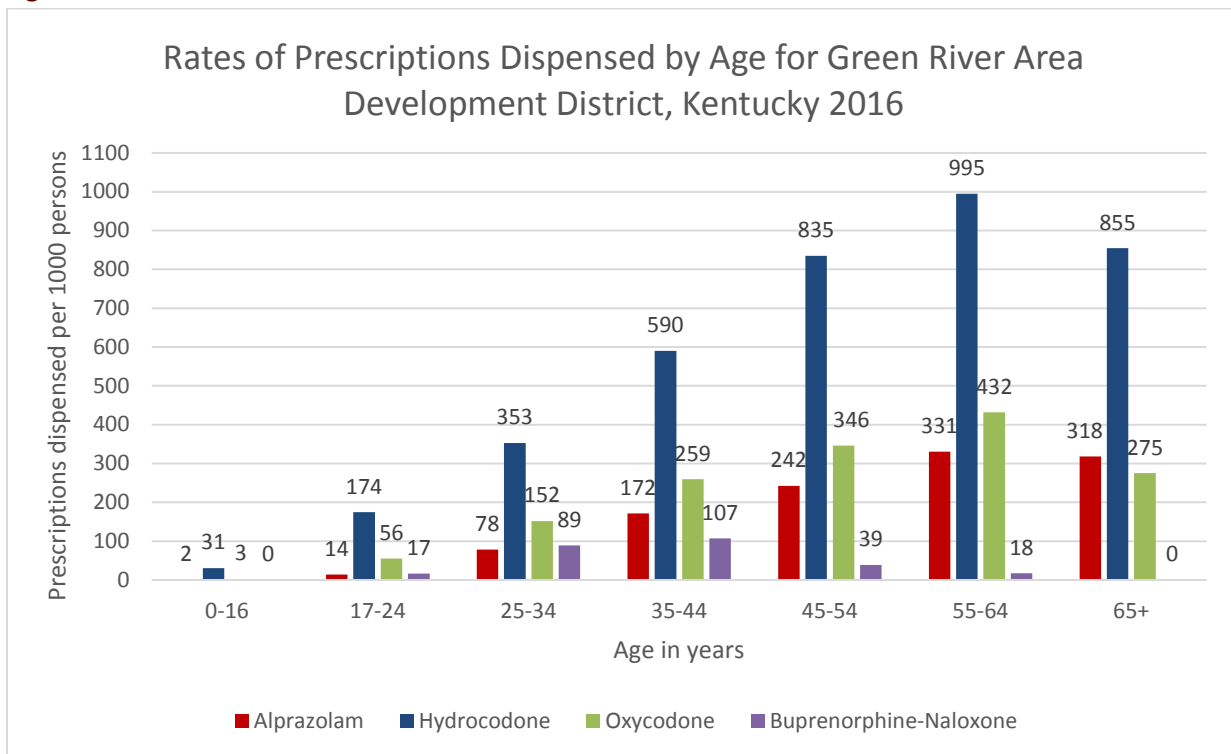
Age and Gender



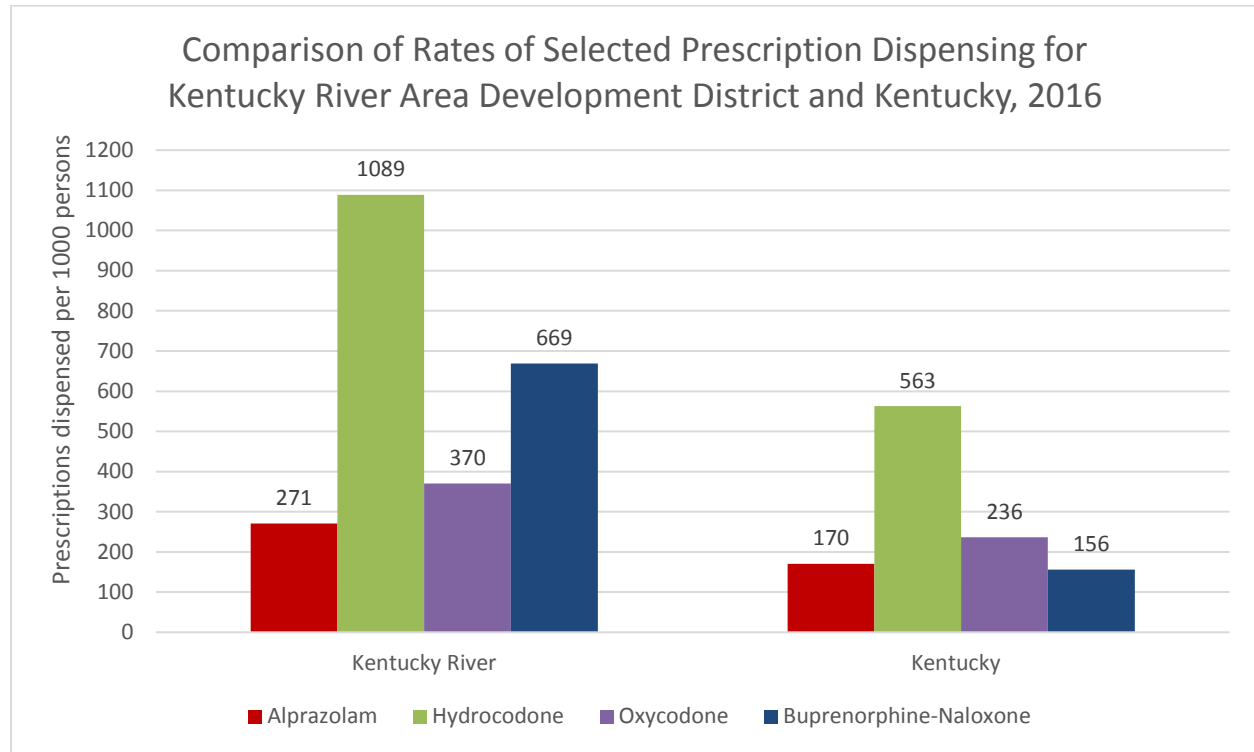
Gender



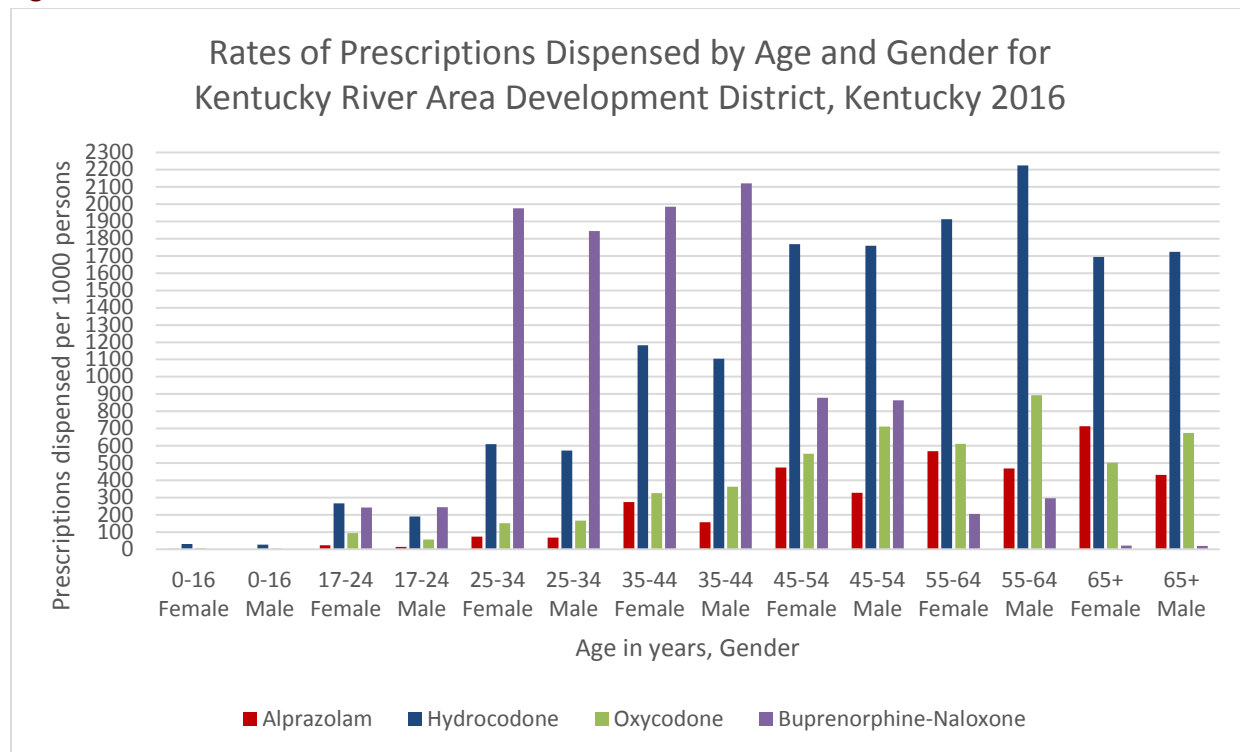
Age



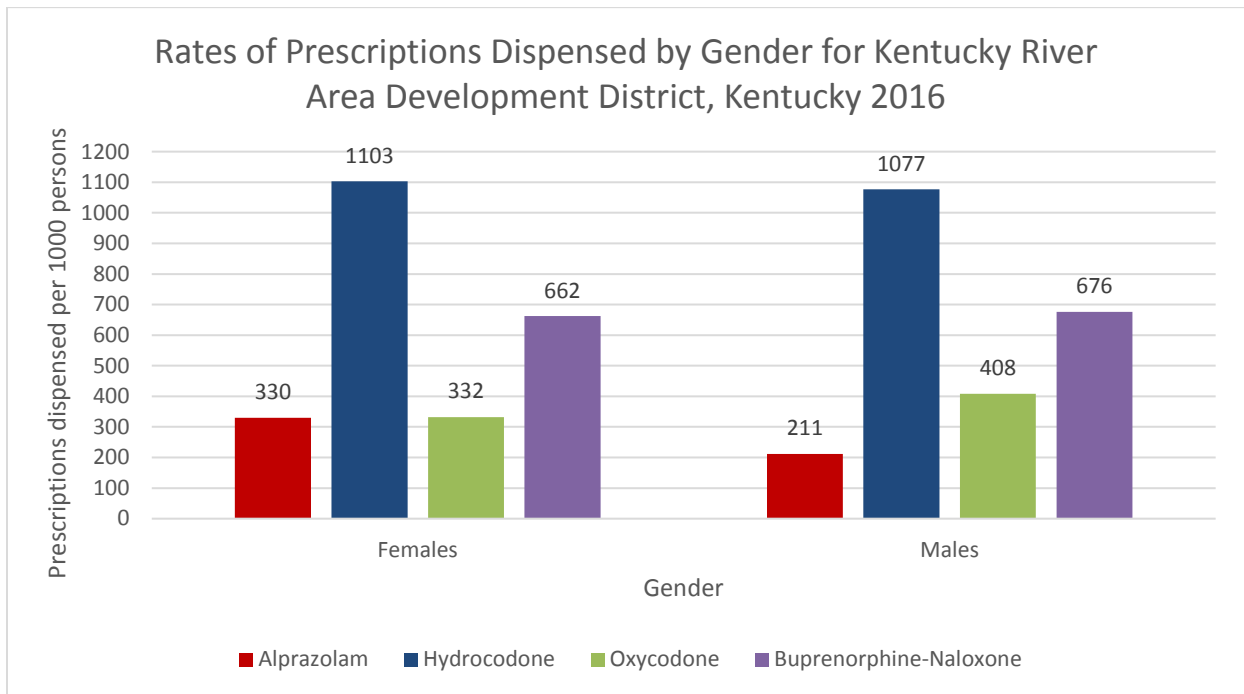
Kentucky River Area Development District



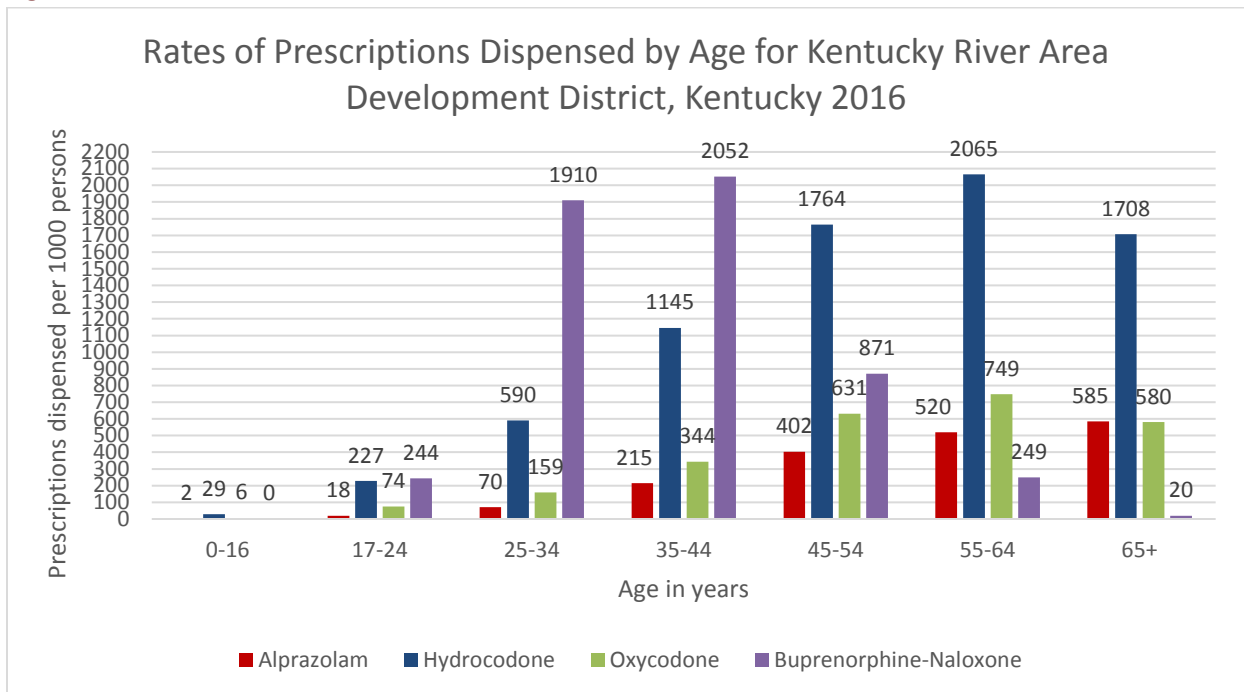
Age and Gender



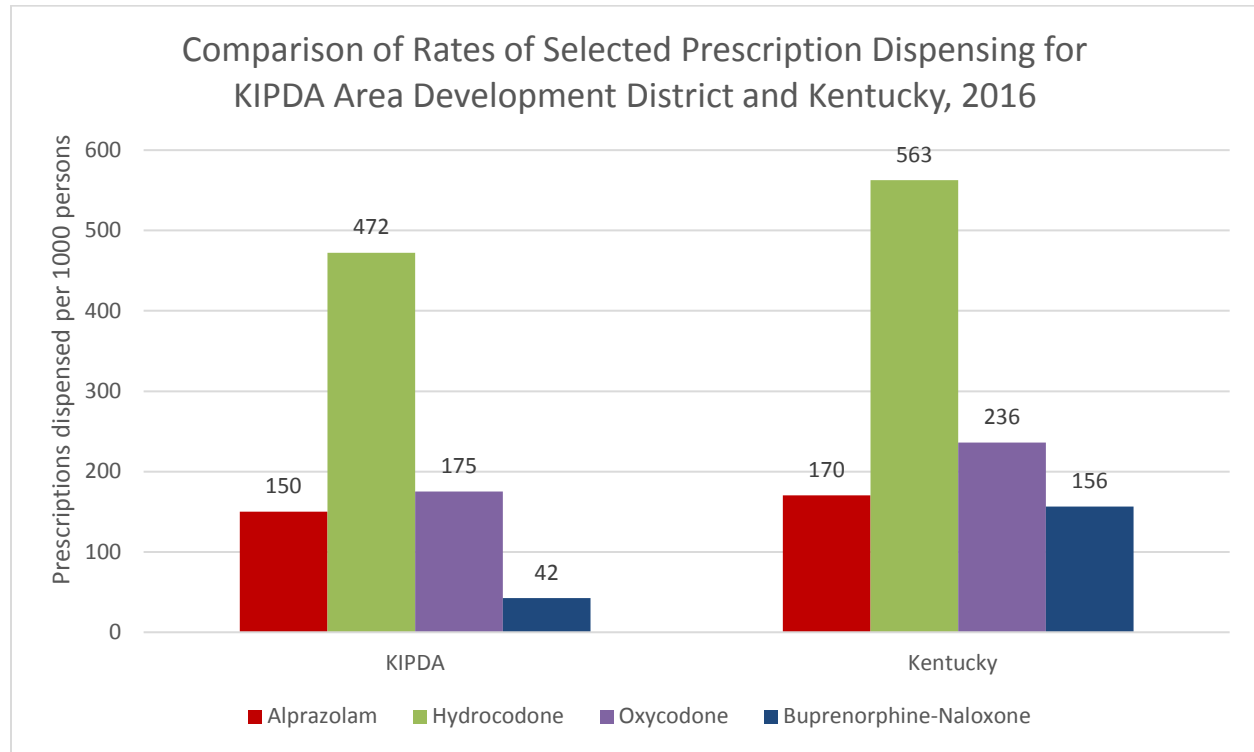
Gender



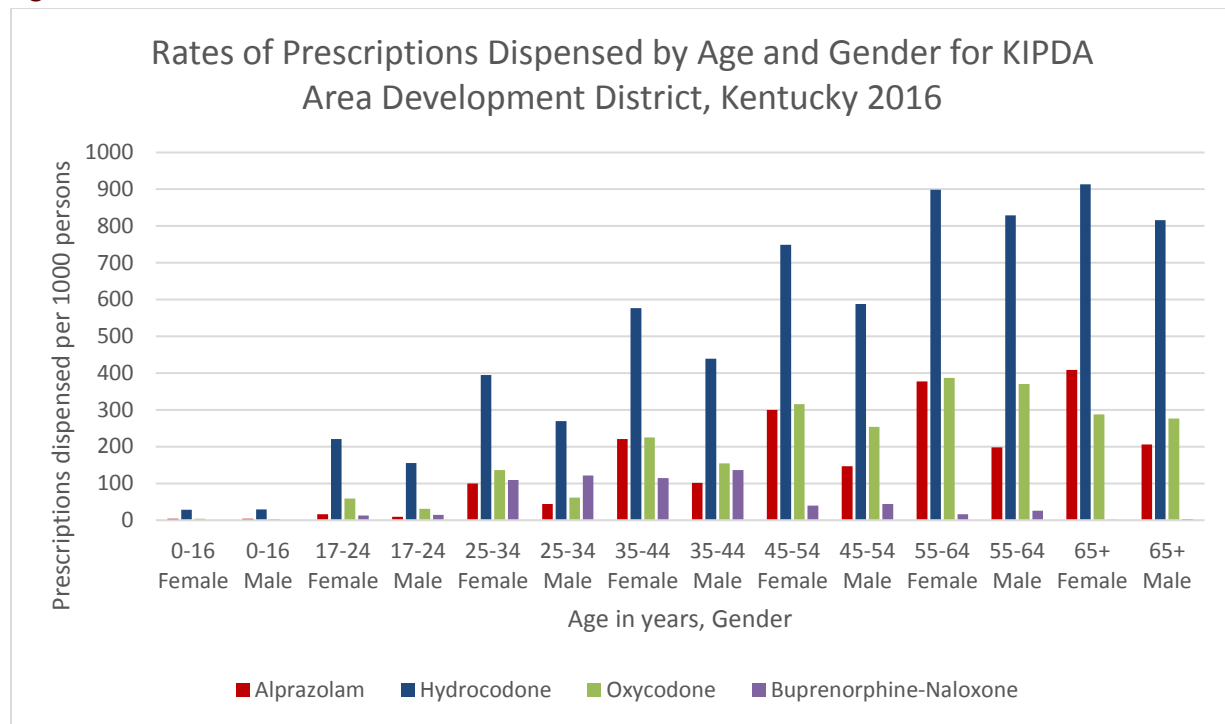
Age



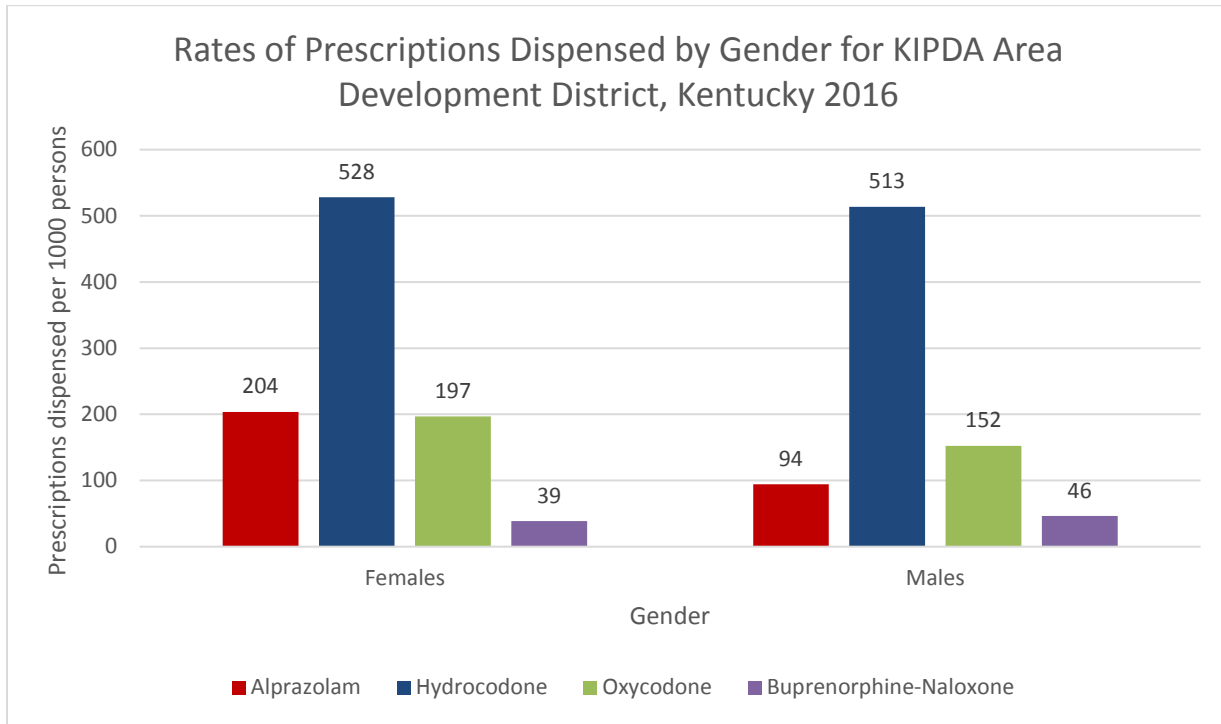
KIPDA Area Development District



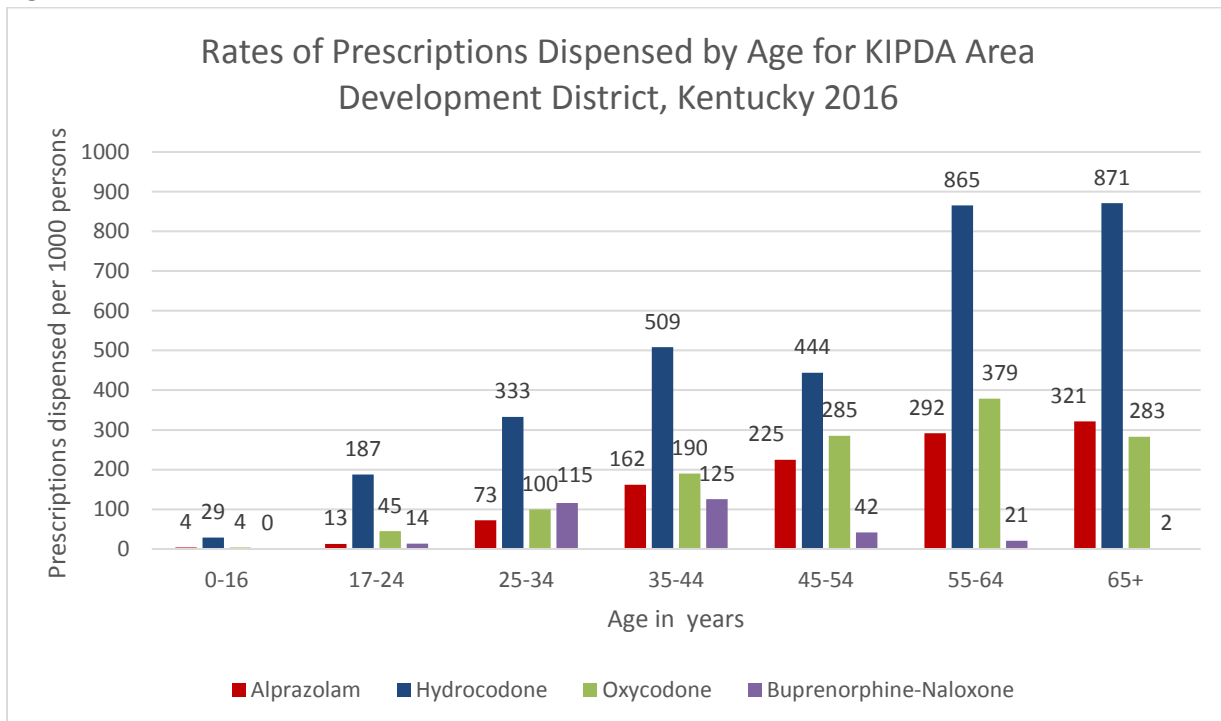
Age and Gender



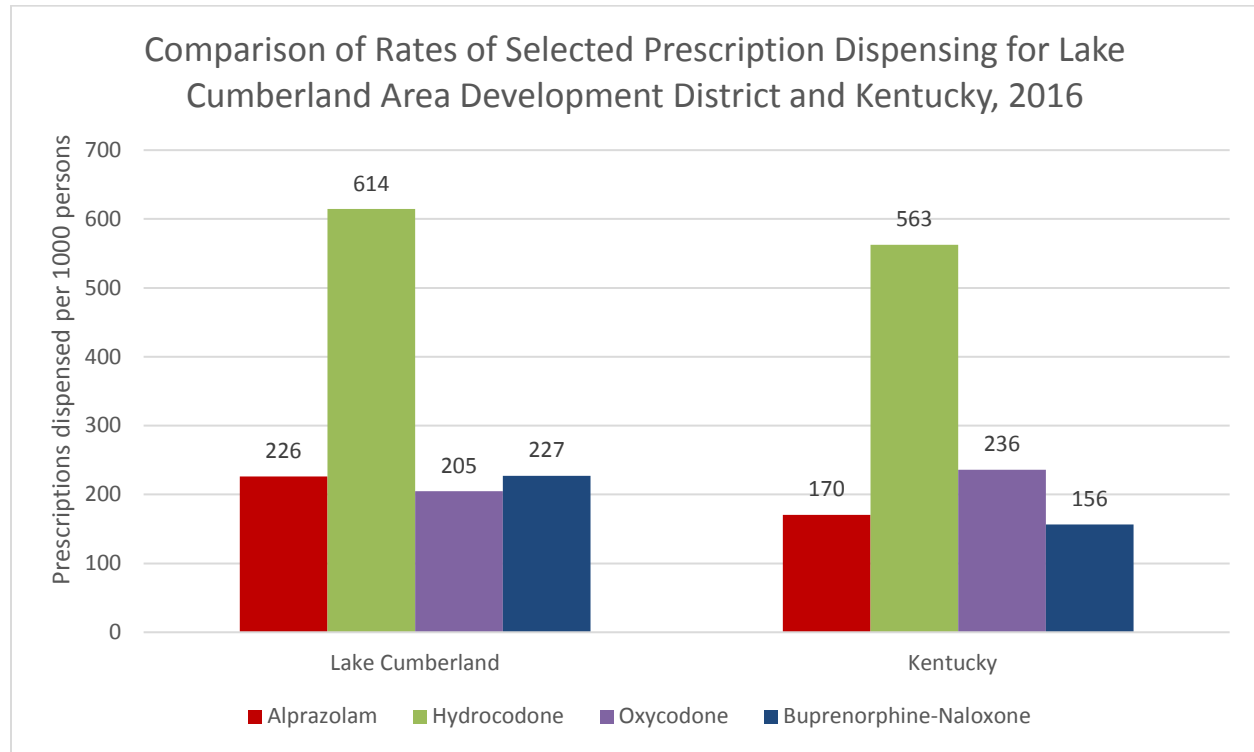
Gender



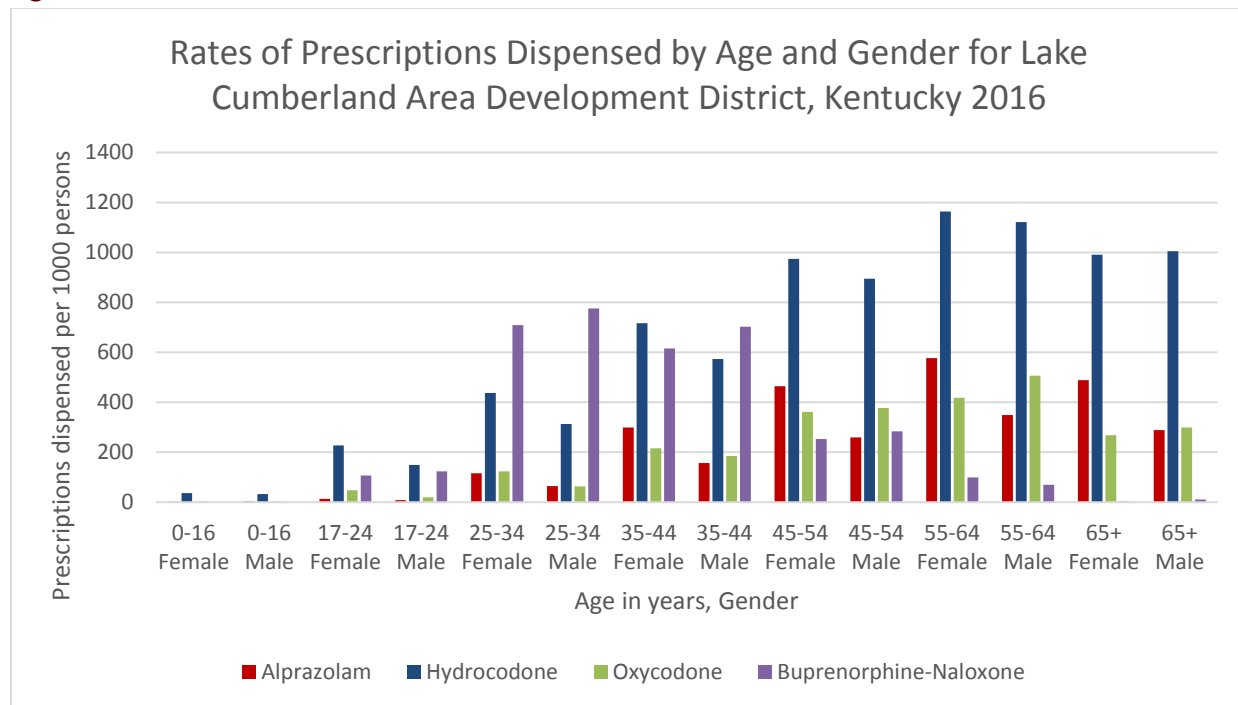
Age



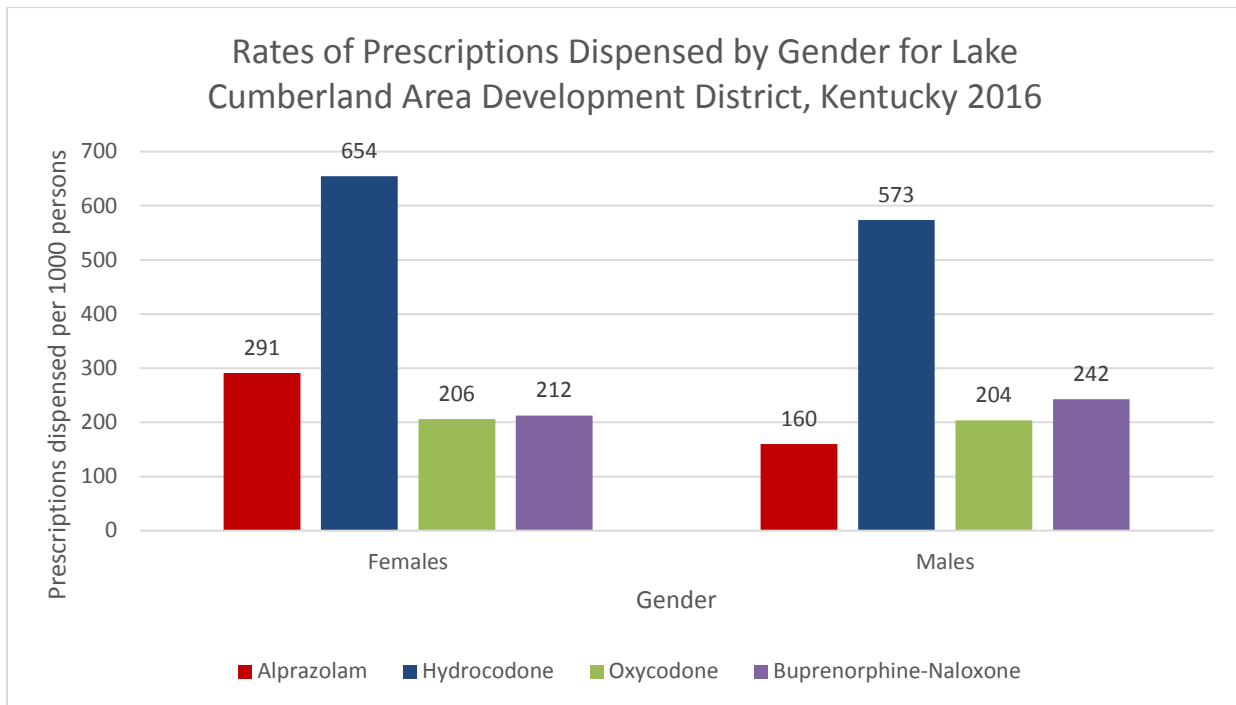
Lake Cumberland Area Development District



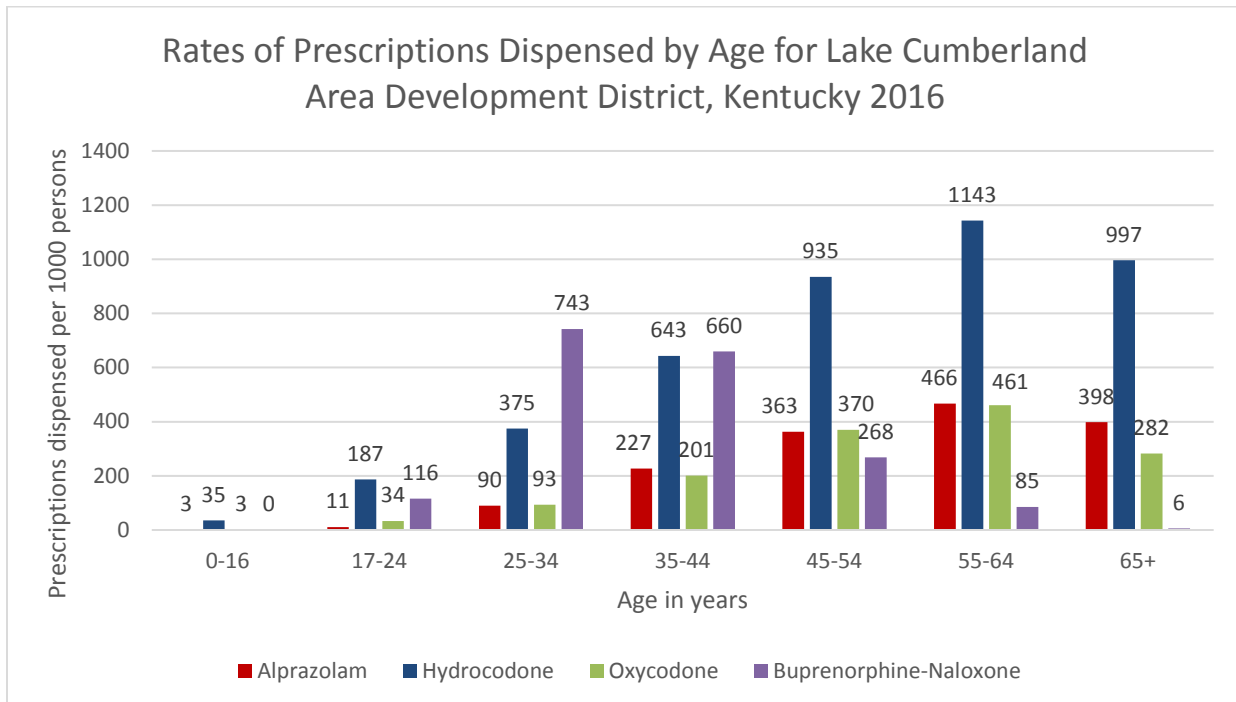
Age and Gender



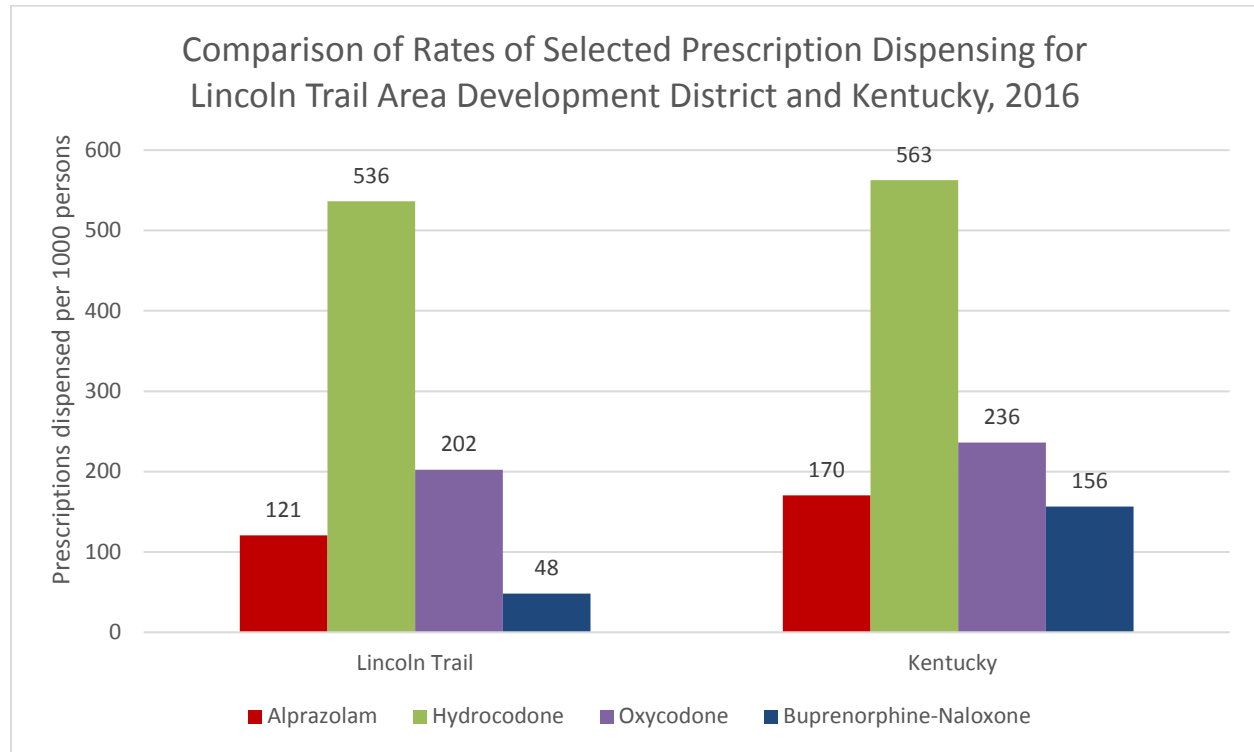
Gender



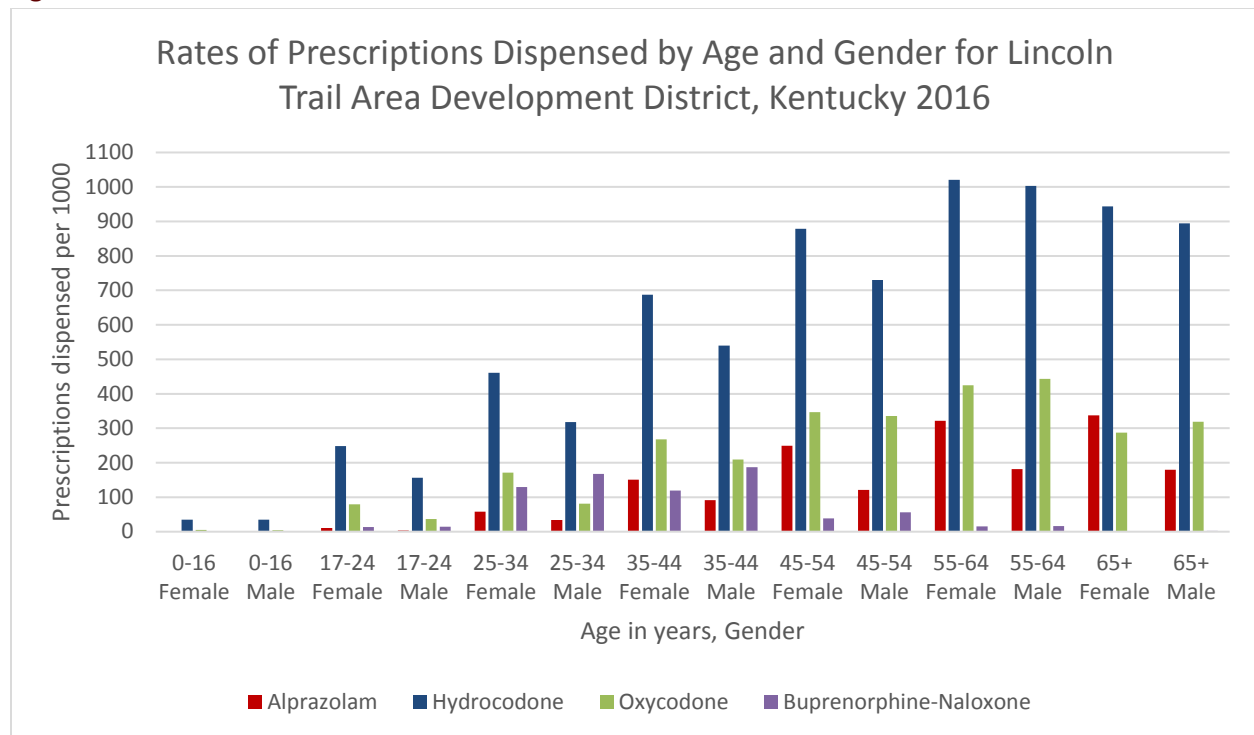
Age



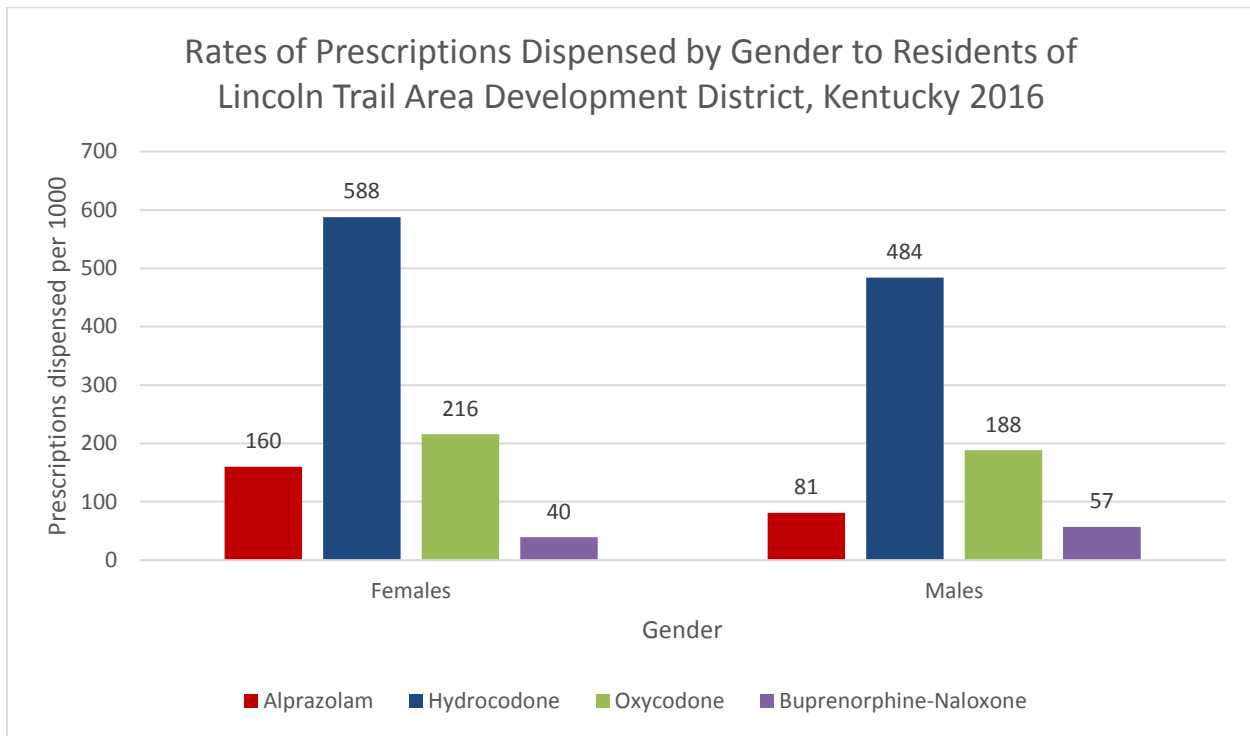
Lincoln Trail Area Development District



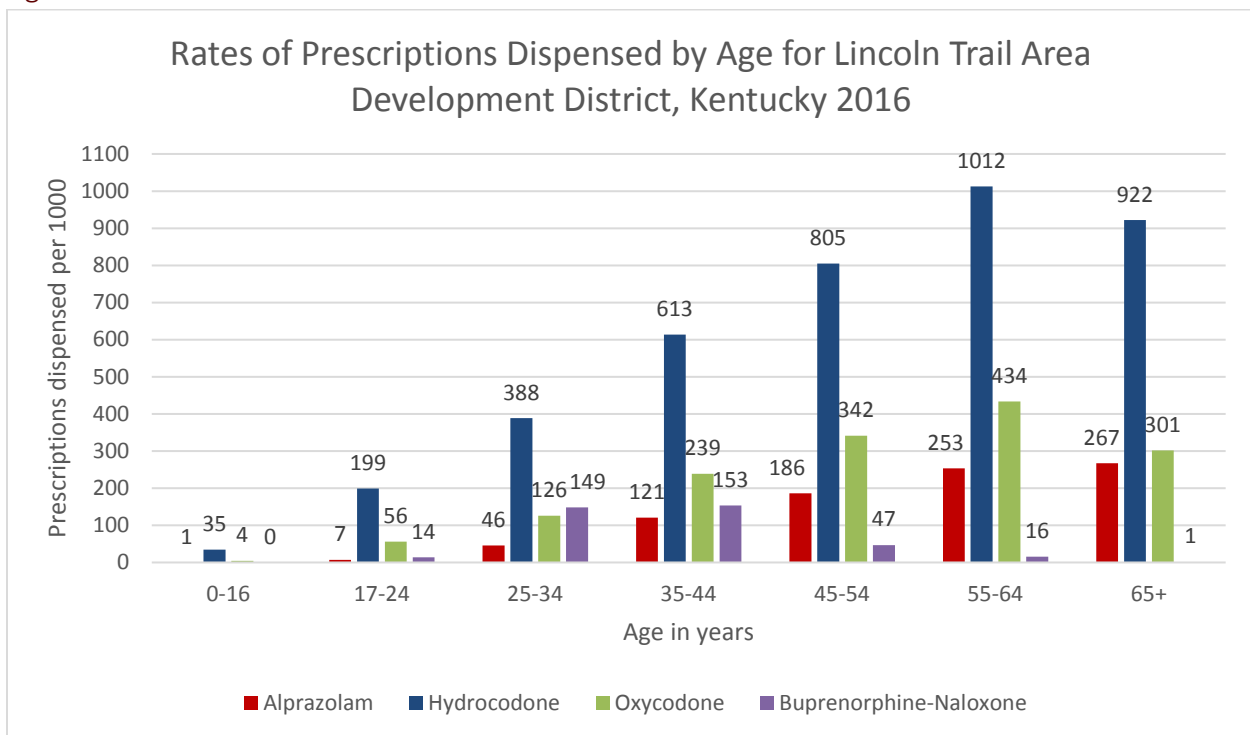
Age and Gender



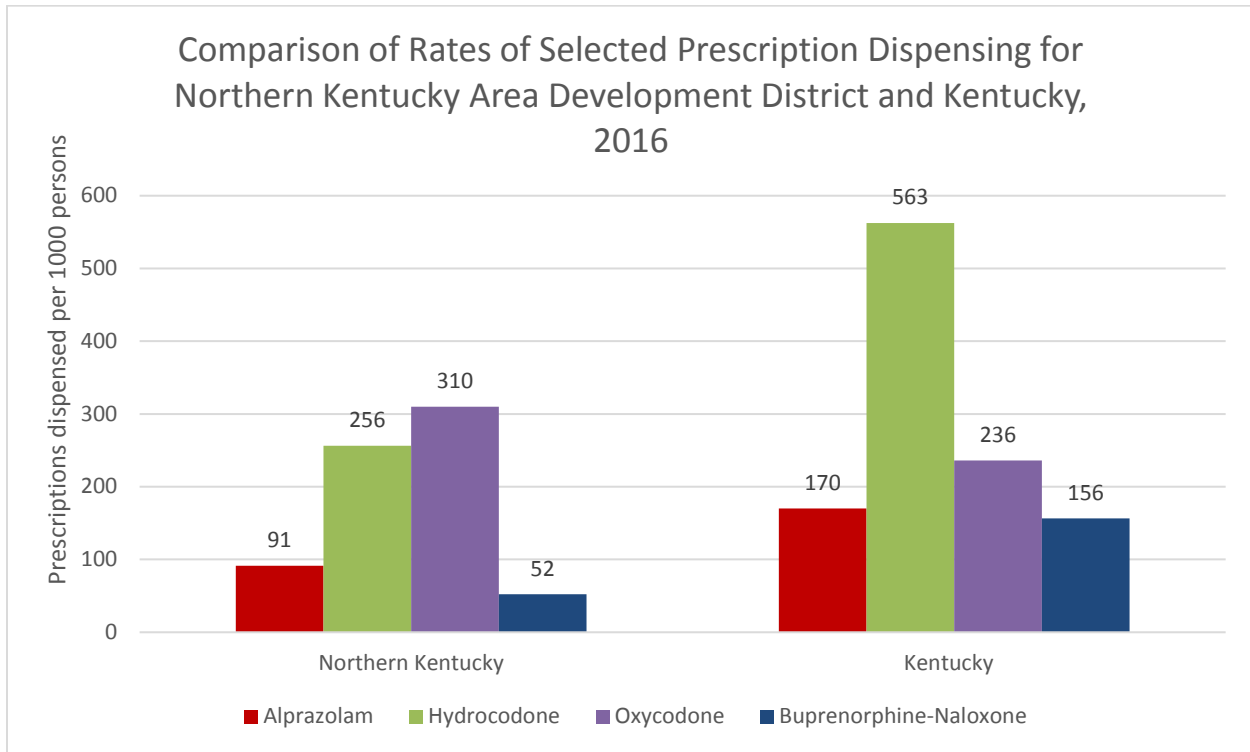
Gender



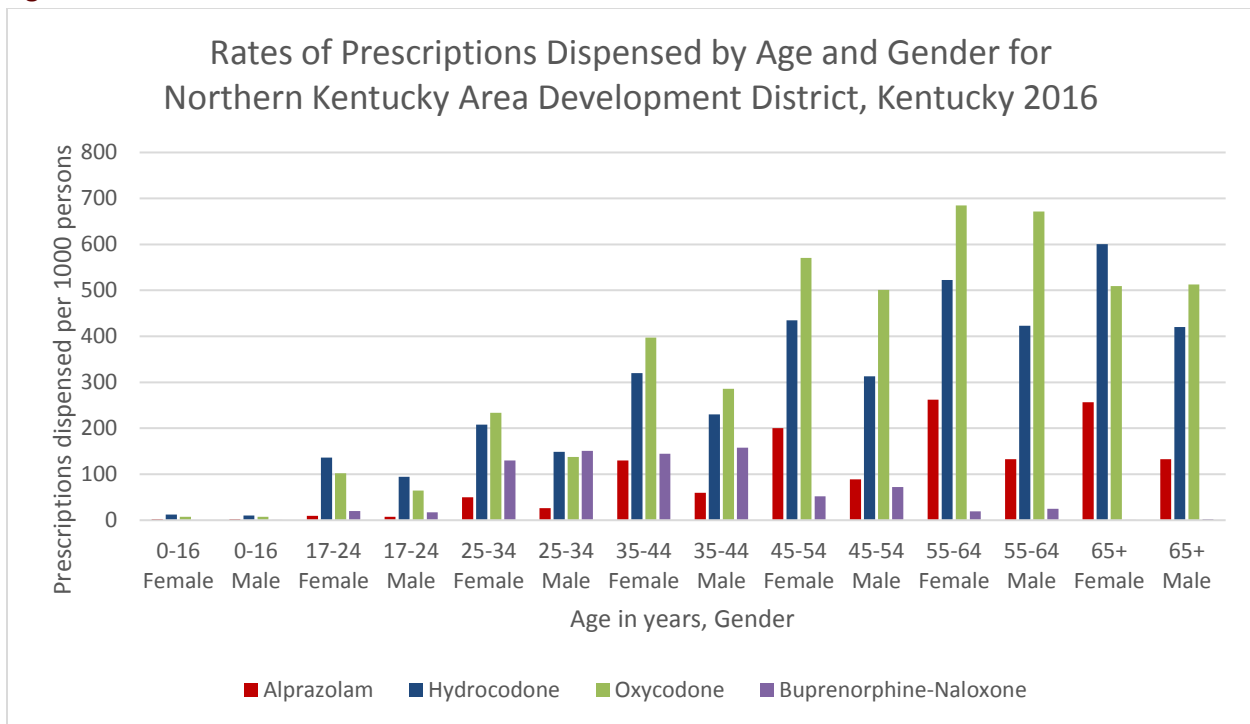
Age



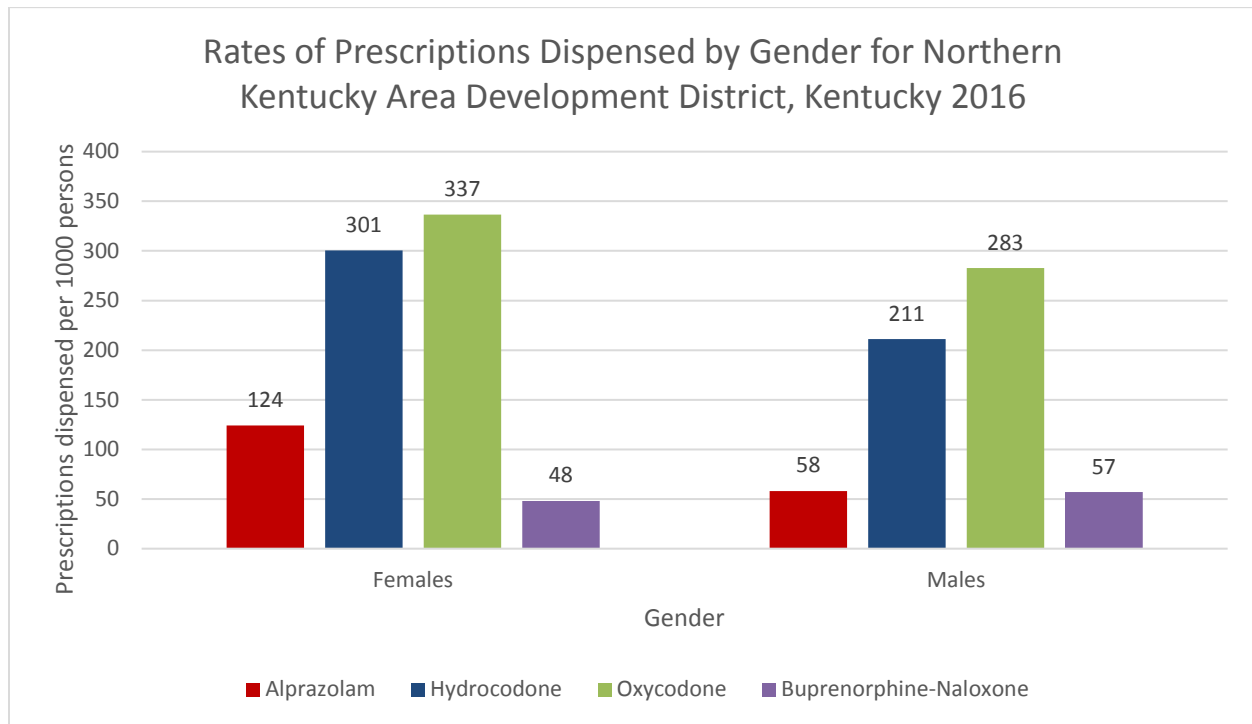
Northern Kentucky Area Development District



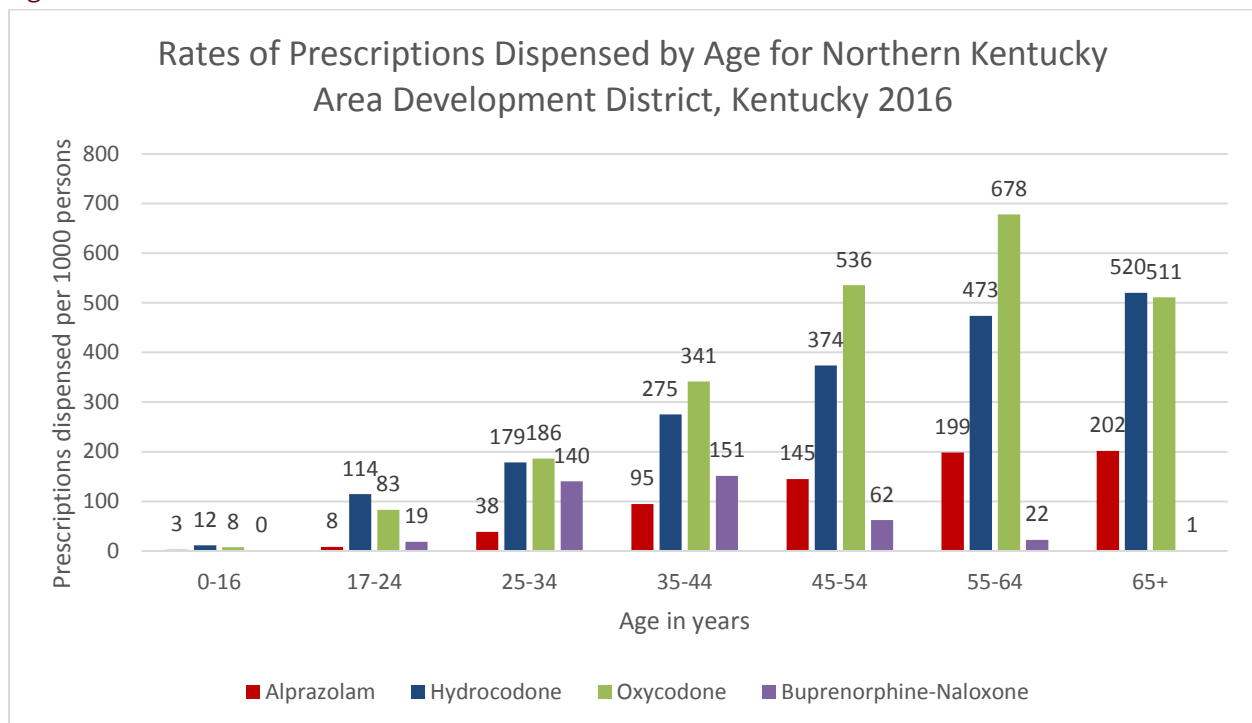
Age and Gender



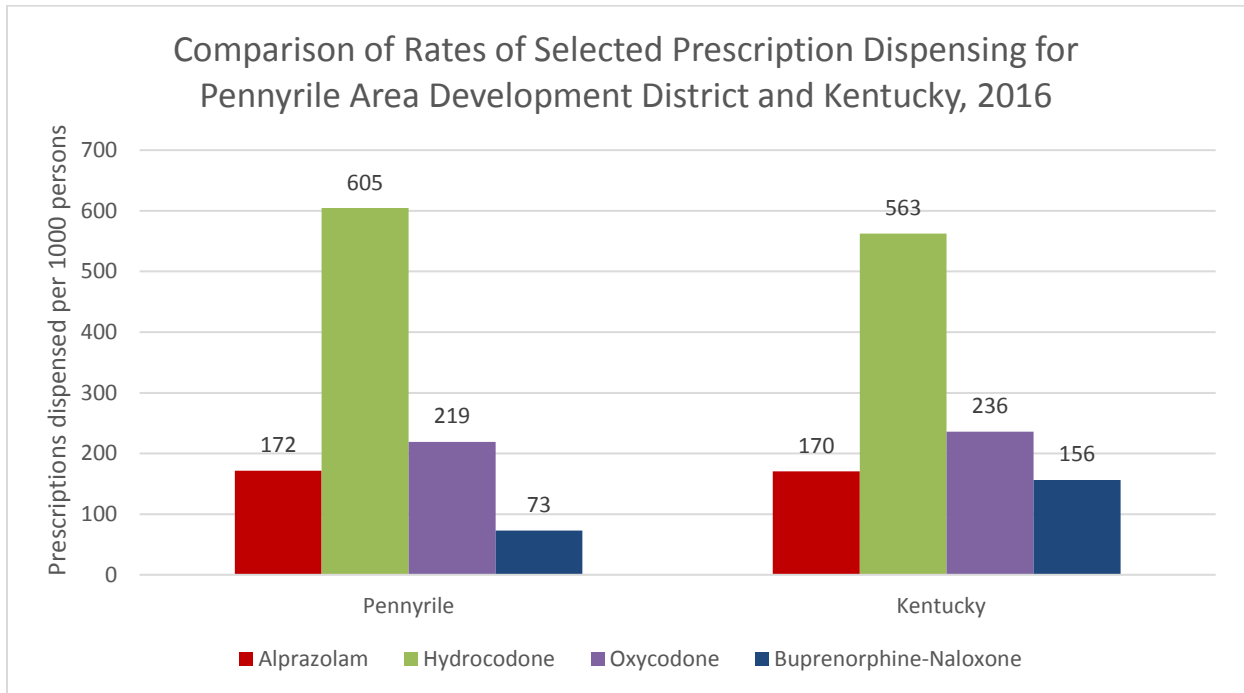
Gender



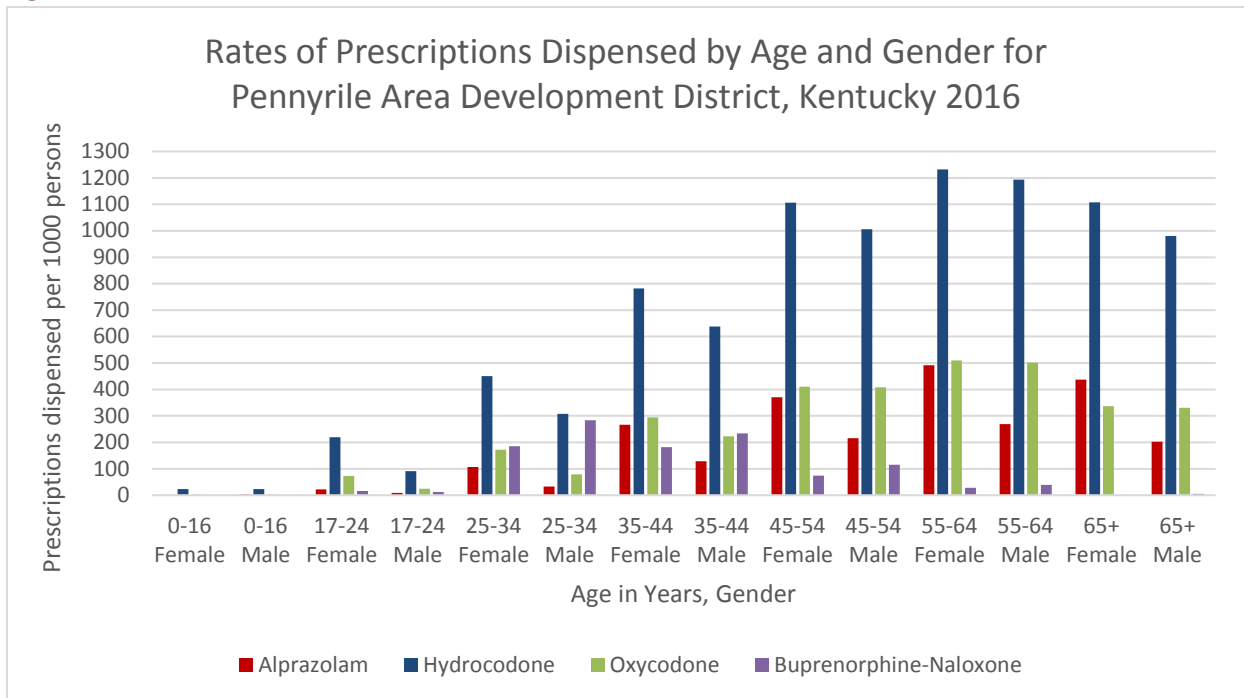
Age



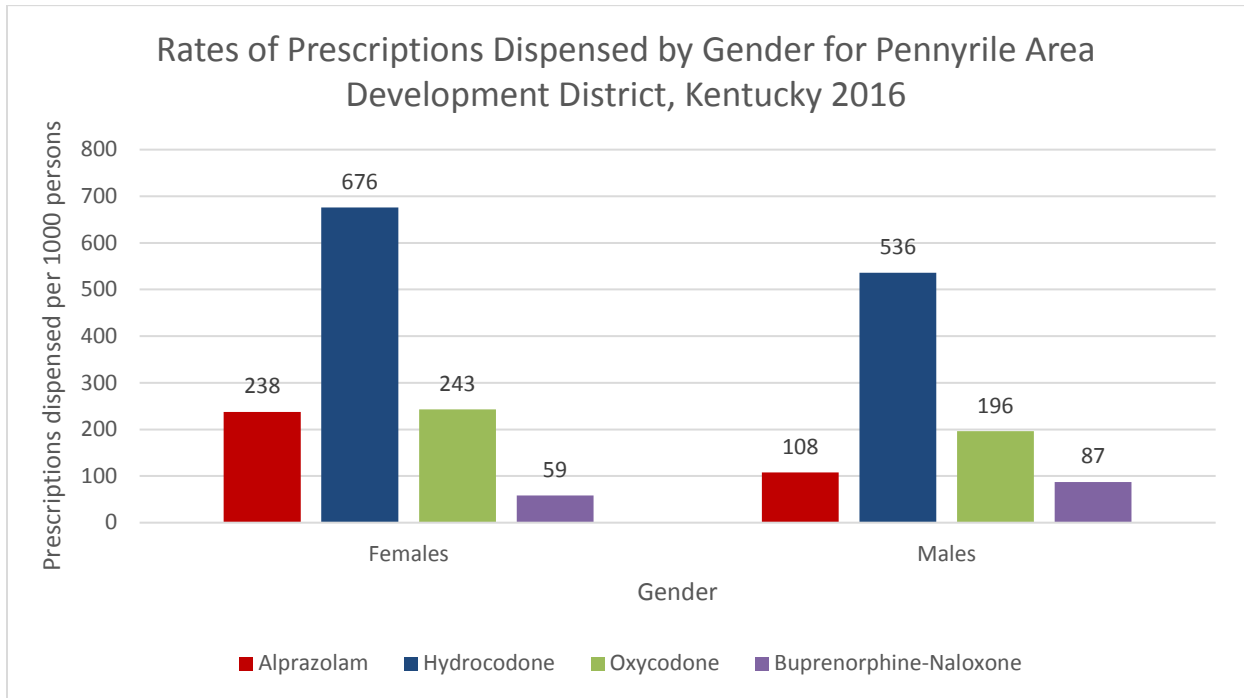
Pennyrile Area Development District



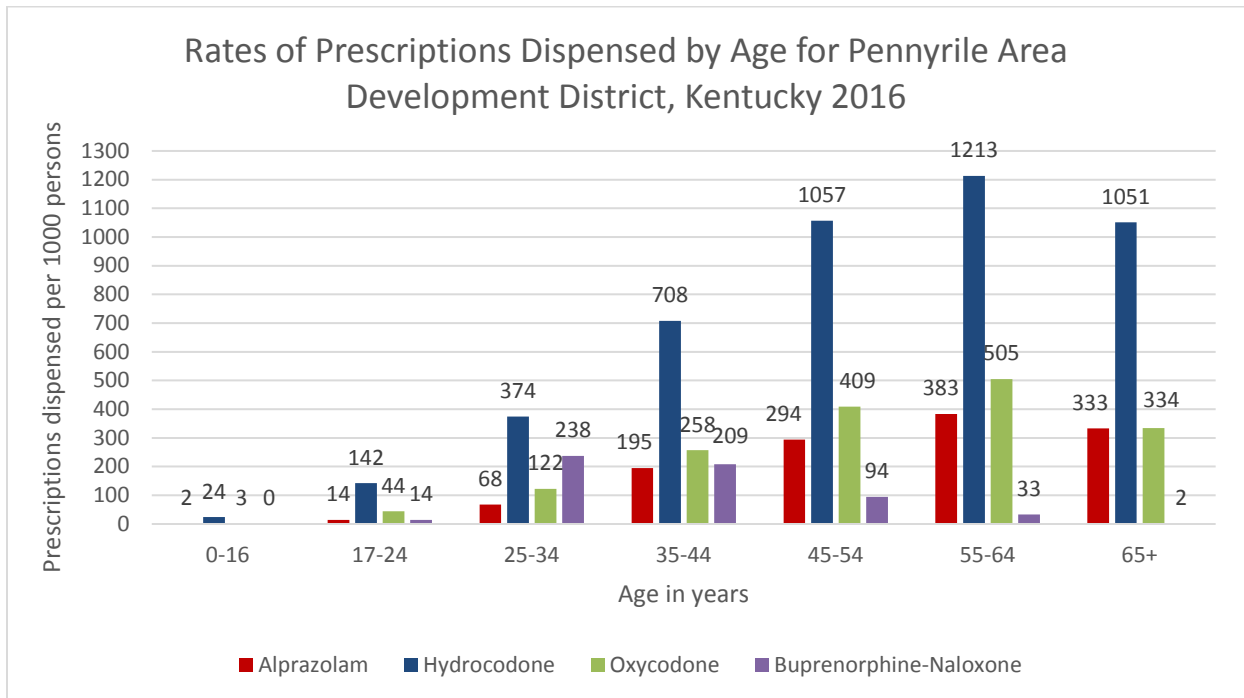
Age and Gender



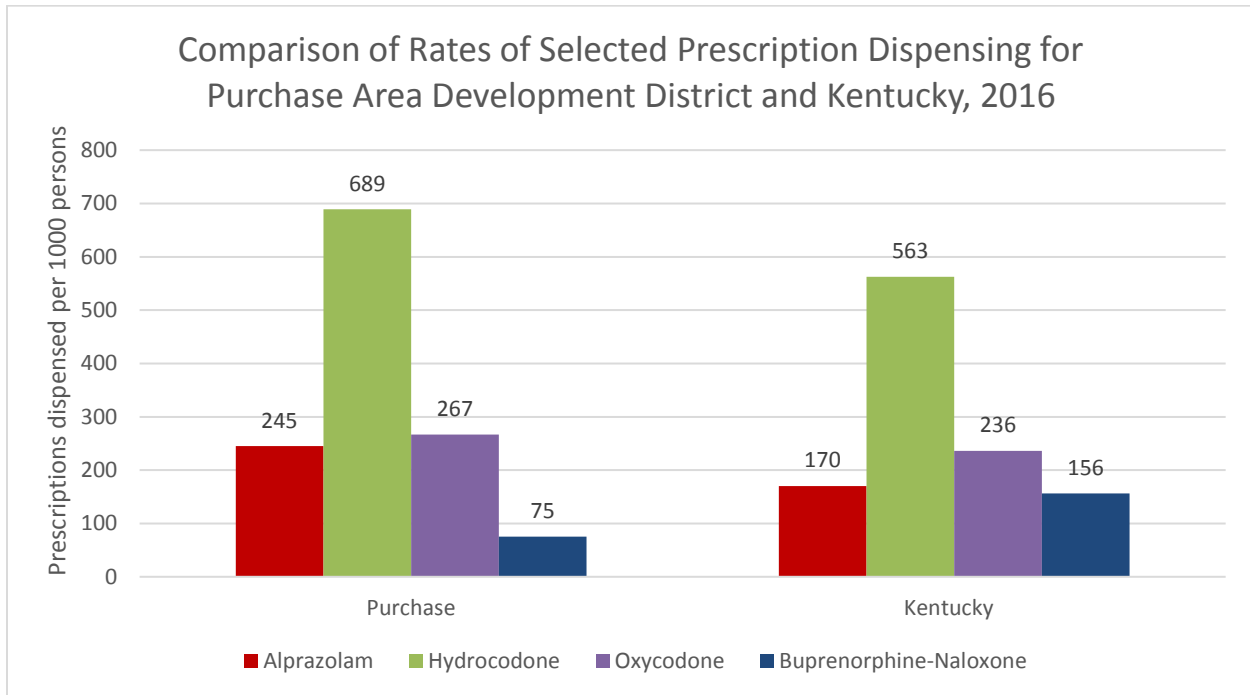
Gender



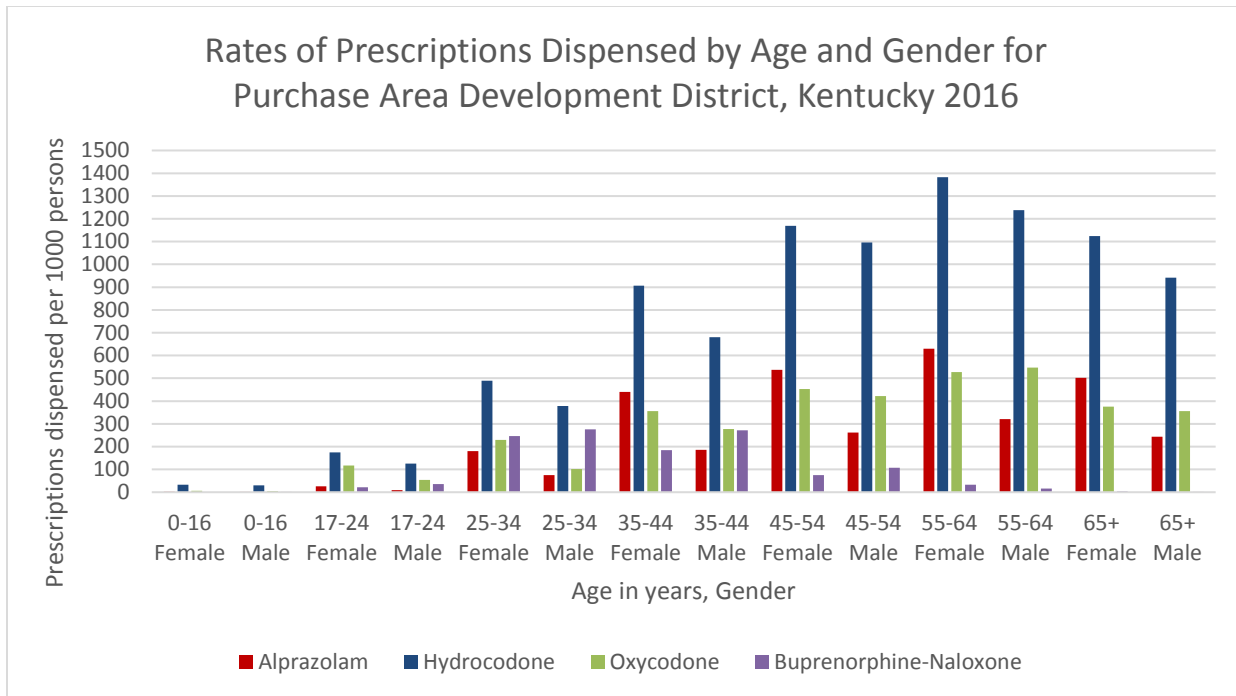
Age



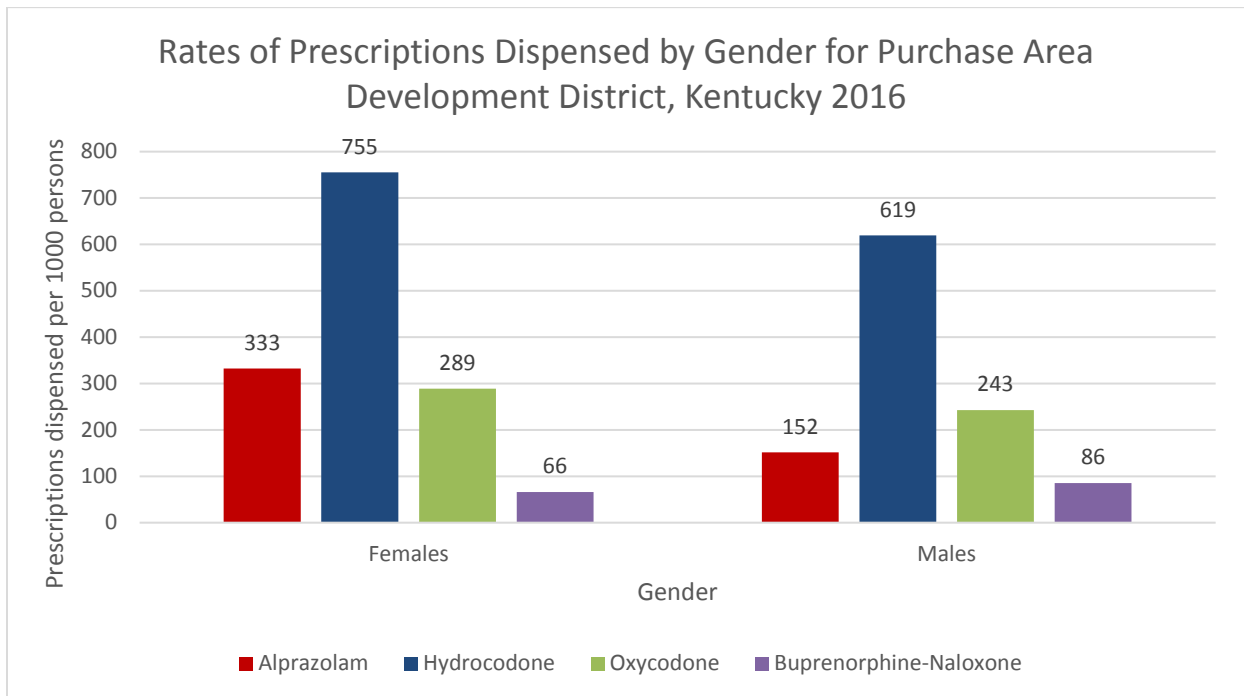
Purchase Area Development District



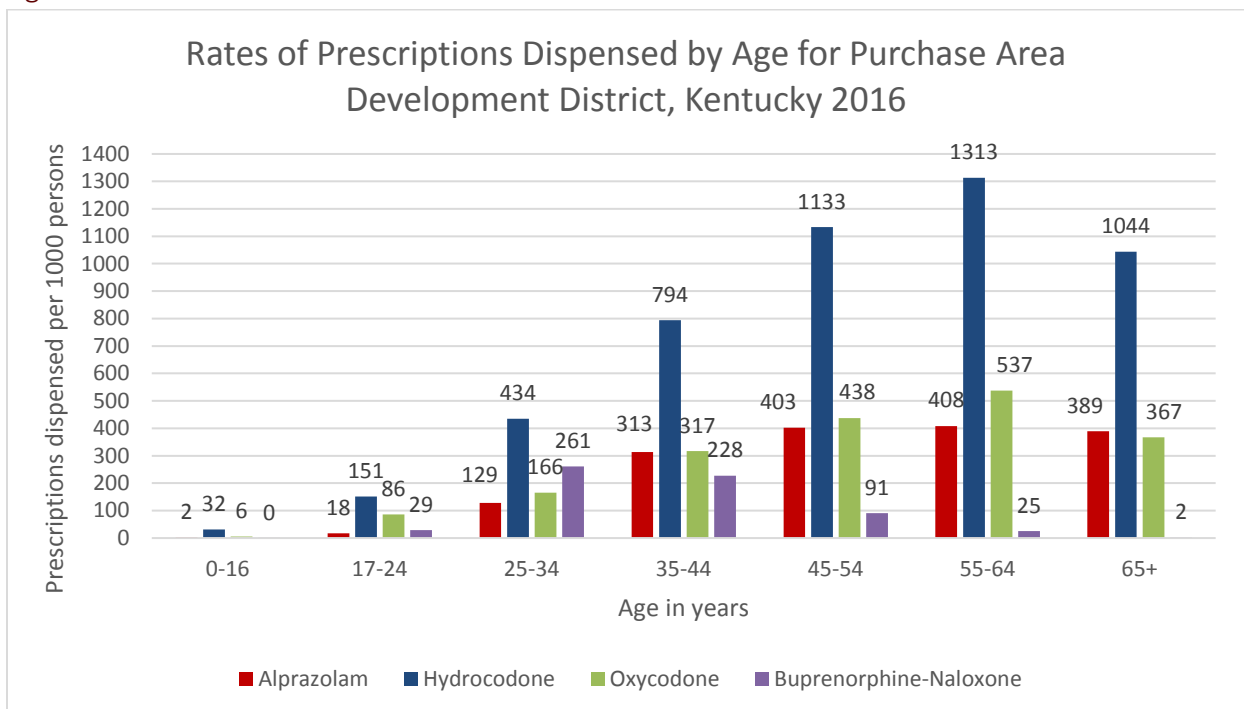
Age and Gender



Gender



Age



Differences in Dispensing from 2015 to 2016

Statewide

Comparison of Selected Prescription Dispensing Rates, Kentucky 2015-2016																				
Kentucky and Age and Gender Group	All Controlled Substances				Opioids, excluding Buprenorphine Naloxone				Alprazolam				Buprenorphine-Naloxone				Schedule II Stimulants			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
Kentucky	2,421	2,367	-2.2	*	1,115	1,067	-4.3	*	182	170	-6.4	*	134	156	16.7	*	225	235	4.3	*
0-16 Female	429	432	0.8	*	56	54	-4.8	*	3	3	2.7	*	0	0	-49.9		320	327	2.5	*
0-16 Male	869	873	0.4	*	56	52	-6.6	*	3	3	-9.5	*	0	0	54.0		756	765	1.2	*
17-24 Female	880	858	-2.5	*	396	369	-6.9	*	19	18	-5.0	*	57	57	0.1		229	243	5.9	*
17-24 Male	703	685	-2.5	*	237	213	-10.1	*	9	9	1.5		55	50	-9.4	*	309	324	4.8	*
25-34 Female	2,320	2,215	-4.6	*	931	826	-11.3	*	110	95	-13.8	*	402	452	12.5	*	224	244	8.9	*
25-34 Male	1,574	1,471	-6.5	*	601	499	-17.0	*	55	45	-18.3	*	439	457	4.1	*	182	198	8.8	*
35-44 Female	3,394	3,299	-2.8	*	1,375	1,270	-7.6	*	257	228	-11.4	*	332	420	26.4	*	218	240	10.4	*
35-44 Male	2,408	2,341	-2.8	*	1,095	974	-11.1	*	130	115	-11.4	*	424	503	18.6	*	135	153	13.4	*
45-54 Female	4,091	3,977	-2.8	*	1,866	1,773	-5.0	*	381	350	-8.3	*	129	170	32.1	*	157	174	10.7	*
45-54 Male	2,982	2,897	-2.8	*	1,632	1,535	-5.9	*	204	182	-10.8	*	146	194	33.5	*	80	88	10.0	*
55-64 Female	4,477	4,399	-1.7	*	2,156	2,134	-1.0	*	461	439	-4.6	*	39	56	43.4	*	96	102	6.0	*
55-64 Male	3,699	3,581	-3.2	*	2,134	2,066	-3.2	*	273	254	-7.1	*	57	68	19.8	*	49	52	5.3	*
65+ Female	3,999	3,912	-2.2	*	2,033	2,006	-1.3	*	465	449	-3.4	*	3	4	24.3	*	25	27	10.6	*
65+ Male	3,275	3,221	-1.6	*	1,849	1,832	-0.9	*	257	247	-3.9	*	5	8	43.7	*	19	21	6.6	*
All rates are based on prescriptions dispensed per 1000 residents.																				

All rates are based on prescriptions dispensed per 1000 residents.

Area Development Districts

Comparison of Selected Prescription Dispensing Rates for Kentucky and Area Development Districts, 2015-2016																
Kentucky and Area Development Districts	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
Kentucky	182	170	-6.4	*	597	563	-5.7	*	235	236	0.5	*	134	156	16.7	*
Barren River	129	115	-10.4	*	570	544	-4.5	*	156	166	6.4	*	47	68	44.0	*
Big Sandy	219	205	-6.4	*	1029	985	-4.2	*	235	247	5.0	*	411	488	18.5	*
Bluegrass	140	132	-5.7	*	430	400	-6.9	*	213	205	-4.1	*	153	179	17.0	*
Buffalo Trace	213	210	-1.6		447	424	-5.2	*	261	251	-4.0	*	102	130	28.3	*
Cumberland Valley	301	266	-11.7	*	990	938	-5.3	*	266	257	-3.4	*	350	362	3.2	*
FIVCO	146	137	-6.4	*	410	401	-2.2	*	222	218	-1.8	*	291	318	9.2	*
Gateway	207	197	-5.0	*	548	499	-8.9	*	287	279	-2.7	*	283	386	36.7	*
Green River	169	162	-4.4	*	556	526	-5.3	*	195	206	6.0	*	26	33	27.7	*
Kentucky River	288	271	-5.9	*	1157	1089	-5.9	*	362	370	2.1	*	544	669	23.0	*
KIPDA	157	150	-4.4	*	503	472	-6.1	*	173	175	1.2	*	36	42	16.3	*
Lake Cumberland	268	226	-15.6	*	674	614	-8.9	*	210	205	-2.3	*	194	227	17.2	*
Lincoln Trail	128	121	-5.7	*	545	536	-1.6	*	194	202	4.5	*	39	48	23.2	*
Northern Kentucky	98	91	-7.1	*	285	256	-10.0	*	320	310	-3.2	*	43	52	22.6	*
Pennyrite	169	172	1.3		628	605	-3.7	*	202	219	8.6	*	57	73	28.3	*
Purchase	246	245	-0.7		698	689	-1.3	*	240	267	11.0	*	54	75	39.0	*
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

Barren River Area Development District

Comparison of Selected Prescriptions Dispensing Rates, Barren River Area Development District, Kentucky 2015-2016																
Age in years and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	1	1	0.0		26	23	-13.3	*	3	3	-10.8		0	0	0.0	
0-16 Male	1	1	0.0	*	23	22	-5.0		3	2	-12.0		0	0	0	
17-24 Female	11	10	-9.1		208	193	-7.3	*	38	38	-0.6		14	25	78.6	*
17-24 Male	5	5	0.0	*	153	134	-12.2	*	15	17	9.0	*	22	26	25.0	*
25-34 Female	87	73	-16.9	*	535	486	-9.1	*	125	125	0.0		132	192	45.5	*
25-34 Male	50	38	-24.0	*	405	340	-16.0	*	70	65	-6.3		232	271	16.8	*
35-44 Female	219	179	-18.3	*	779	718	-7.9	*	216	233	8.0	*	99	173	74.7	*
35-44 Male	97	91	-6.2		621	579	-6.8	*	172	158	-8.0	*	140	230	64.3	*
45-54 Female	284	248	-12.7	*	1022	975	-4.6	*	293	329	12.2	*	42	62	47.6	*
45-54 Male	153	130	-15.0	*	847	796	-6.1	*	287	299	4.4	*	47	70	48.9	*
55-64 Female	323	291	-9.9	*	1157	1153	-0.3		341	378	10.9	*	10	17	70.0	*
55-64 Male	196	181	-7.7	*	1076	1042	-3.2	*	375	389	3.9	*	16	25	56.3	*
65+ Female	314	304	-3.3	*	931	929	-0.2		216	243	12.6	*	1	2	100.0	*
65+ Male	173	153	-11.6	*	832	818	-1.6		223	242	8.5	*	2	1	-100.0	
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

Big Sandy Area Development District

Comparison of Selected Prescription Dispensing Rates, Big Sandy Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	0	0	0.0	*	23	26	13.0	*	4	3	-25.0		0	0	0.0	
0-16 Male	3	3	0.0	*	29	27	-6.9		6	4	-33.3	*	0	0	0.0	
17-24 Female	13	18	38.5	*	298	262	-12.1	*	73	70	-4.1		227	234	3.1	
17-24 Male	1	3	200.0	*	195	170	-12.8	*	31	29	-6.5	*	187	178	-4.8	
25-34 Female	115	80	-30.4	*	707	566	-19.9	*	154	126	-18.2	*	1513	1582	4.6	*
25-34 Male	63	47	-25.4	*	595	478	-19.7	*	120	108	-10.0		1253	1379	10.0	*
35-44 Female	309	221	-28.5	*	1190	1078	-9.4	*	252	254	0.8		1052	1354	28.7	*
35-44 Male	191	156	-18.3	*	1205	1077	-10.6	*	330	329	-0.3	*	1240	1564	26.1	*
45-54 Female	402	389	-3.2		1591	1531	-3.8	*	337	355	5.3	*	328	467	42.4	*
45-54 Male	276	260	-5.8	*	1794	1695	-5.5	*	474	515	8.6	*	440	594	35.0	*
55-64 Female	474	450	-5.1	*	1712	1682	-1.8		364	375	3.0	*	71	88	23.9	*
55-64 Male	383	371	-3.1		2093	2007	-4.1	*	567	592	4.4	*	159	204	28.3	*
65+ Female	471	464	-1.5		1527	1560	2.2		265	303	14.3	*	8	16	100.0	*
65+ Male	322	324	0.6		1616	1637	1.3		379	426	12.4	*	18	26	44.4	*
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

Bluegrass Area Development District

Comparison of Selected Prescription Dispensing Rates, Bluegrass Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	5	6	20.0	*	28	26	-7.1		7	7	0.0	*	0	0	0.0	
0-16 Male	5	4	-20.0	*	26	25	-4.0		6	5	-16.7	*	0	0	0.0	
17-24 Female	16	17	6.3	*	143	133	-7.0	*	74	68	-8.1	*	55	59	7.3	*
17-24 Male	8	10	25.0	*	103	94	-8.7	*	43	38	-11.6	*	54	42	-22.2	*
25-34 Female	85	76	-10.6	*	351	298	-15.1	*	195	179	-8.2	*	436	524	20.2	*
25-34 Male	45	34	-24.4	*	238	204	-14.3	*	101	91	-9.9	*	488	493	1.0	
35-44 Female	192	165	-14.1	*	545	461	-15.4	*	290	262	-9.7	*	362	459	26.8	*
35-44 Male	91	81	-11.0	*	395	344	-12.9	*	218	185	-15.1	*	493	562	14.0	*
45-54 Female	317	293	-7.6	*	733	683	-6.8	*	403	367	-8.9	*	155	197	27.1	*
45-54 Male	155	136	-12.3	*	595	533	-10.4	*	345	313	-9.3	*	169	232	37.3	*
55-64 Female	375	359	-4.3	*	837	800	-4.4	*	444	453	2.0	*	45	71	57.8	*
55-64 Male	200	185	-7.5	*	779	735	-5.5	*	458	455	-0.7		59	81	37.3	*
65+ Female	398	393	-1.3		891	862	-3.3		327	341	4.3	*	3	4	33.3	
65+ Male	199	199	0.0		827	808	-2.3		336	335	-0.3		5	10	100.0	*
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

Buffalo Trace Area Development District

Comparison of Selected Prescription Dispensing Rates, Buffalo Trace Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	1	1	0.0		24	30	25.0	*	8	3	-62.5	*	0	0	0.0	
0-16 Male	1	1	0.0	*	23	22	-4.3		5	2	-60.0	*	0	0	0.0	
17-24 Female	27	27	0.0		238	211	-11.3	*	107	109	1.9		69	57	-17.4	
17-24 Male	5	4	-20.0		145	120	-17.2	*	69	60	-13.0		36	41	13.8	
25-34 Female	141	122	-13.5	*	400	366	-8.5	*	251	215	-14.3	*	318	453	42.5	*
25-34 Male	112	83	-25.9	*	331	257	-22.4	*	188	168	-10.6	*	381	522	37.0	*
35-44 Female	378	325	-14.0	*	587	496	-15.5	*	345	305	-11.6	*	282	390	38.3	*
35-44 Male	149	129	-13.4	*	462	368	-20.3	*	304	243	-20.1	*	324	376	16.0	*
45-54 Female	406	396	-2.5		724	662	-8.6	*	453	397	-12.4	*	91	103	13.2	
45-54 Male	233	247	6.0	*	610	570	-6.6	*	420	457	8.8	*	121	166	37.2	*
55-64 Female	492	516	4.9	*	706	719	1.8		440	471	7.0	*	44	45	2.3	
55-64 Male	270	240	-11.1	*	753	695	-7.7	*	549	497	-9.5	*	25	32	28.0	*
65+ Female	494	507	2.6		743	782	5.2	*	322	329	2.2		1	0	-100.0	
65+ Male	266	292	9.8	*	702	718	2.3		333	362	8.7	*	8	7	-12.5	
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

Cumberland Valley Area Development District

Comparison of Selected Prescription Dispensing Rates, Cumberland Valley Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	1	1	-3.0	*	33	32	-3.0	*	5	4	-20.0	*	0	0	0.0	
0-16 Male	1	0	-100.0	*	27	29	7.4	*	4	5	25.0	*	0	0	0.0	
17-24 Female	16	12	-25.0	*	317	283	-10.7	*	63	58	-7.9		154	135	-12.3	*
17-24 Male	9	6	-33.3	*	183	173	-5.5		48	40	-16.7	*	160	94	-41.3	*
25-34 Female	104	82	-21.2	*	676	588	-13.0	*	149	138	-7.4	*	1117	1074	-3.8	*
25-34 Male	56	41	-26.8	*	511	397	-22.3	*	122	94	-23.0	*	1141	999	-12.4	*
35-44 Female	308	250	-18.8	*	1143	1044	-8.7	*	276	248	-10.1	*	830	962	15.9	*
35-44 Male	172	134	-22.1	*	978	884	-9.6	*	289	247	-14.5	*	1108	1186	7.0	*
45-54 Female	589	487	-17.3	*	1707	1566	-8.3	*	438	416	-5.0	*	375	458	22.1	*
45-54 Male	359	300	-16.4	*	1593	1519	-4.6	*	543	505	-7.0	*	396	490	23.7	*
55-64 Female	757	680	-10.2	*	1839	1808	-1.7	*	497	504	1.4		104	147	41.3	*
55-64 Male	515	420	-18.4	*	1984	1889	-4.8	*	644	641	-0.5		140	149	6.4	*
65+ Female	781	736	-5.8	*	1626	1595	-1.9	*	343	350	2.0		12	8	-33.3	*
65+ Male	546	526	-3.7	*	1727	1697	-1.7	*	458	478	4.4		11	16	45.5	*
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

FIVCO Area Development District

Comparison of Selected Prescription Dispensing Rates, FIVCO Area Development District, Kentucky 2015-2016																			
Age and Gender	Alprazolam				Significant	Hydrocodone				Significant	Oxycodone				Significant	Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	2015 Rate		2016 Rate	% Change	2015 Rate	2016 Rate		% Change	2015 Rate	2016 Rate	% Change		2015 Rate	2016 Rate	% Change	Significant
0-16 Female	2	2	0.0	*	28	26	-7.1	*	6	5	-16.7	*	0	0	0.0				
0-16 Male	1	2	100.0	*	23	26	13.0	*	4	4	0.0	*	0	0	0.0				
17-24 Female	9	12	33.3	*	176	179	1.7		93	100	7.5		182	143	-21.4	*			
17-24 Male	4	6	50.0		104	106	1.9		34	39	14.7		108	76	-29.6	*			
25-34 Female	77	50	-35.1	*	313	292	-6.7	*	155	162	4.5		1284	1204	-6.2	*			
25-34 Male	39	39	0.0		210	177	-15.7	*	76	68	-10.5		960	971	1.1				
35-44 Female	186	182	-2.2		420	437	4.0		234	242	3.4		725	867	19.6	*			
35-44 Male	93	83	-10.8	*	328	320	-2.4		177	170	-4.0		738	893	21.0	*			
45-54 Female	297	286	-3.7		638	616	-3.4		342	333	-2.6		290	380	31.0	*			
45-54 Male	164	146	-11.0	*	554	524	-5.4	*	384	321	-16.4	*	265	308	16.2	*			
55-64 Female	363	343	-5.5	*	780	767	-1.7		409	410	0.2		95	135	42.1	*			
55-64 Male	211	206	-2.4		723	710	-1.8		513	503	-1.9		109	146	33.9	*			
65+ Female	341	316	-7.3	*	766	746	-2.6		340	333	-2.1		15	16	6.7				
65+ Male	183	163	-10.9	*	621	608	-2.1		335	349	4.2		10	19	90.0	*			
All rates are based on prescriptions dispensed per 1000 residents.																			

All rates are based on prescriptions dispensed per 1000 residents.

Gateway Area Development District

Comparison of Selected Prescription Dispensing Rates, Gateway Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	5	5	0.0	*	30	19	-36.7	*	8	11	37.5	*	0	0	0.0	
0-16 Male	4	4	0.0	*	27	23	-14.8	*	8	7	-12.5	*	0	0	0.0	
17-24 Female	25	29	16.0		157	146	-7.0		87	93	6.9		119	84	-29.4	*
17-24 Male	14	21	50.0	*	108	105	-2.8		50	59	18.0		103	82	-20.4	*
25-34 Female	102	78	-23.5	*	423	331	-21.7	*	213	200	-6.1		1080	1494	38.3	*
25-34 Male	41	33	-19.5		295	238	-19.3	*	163	134	-17.8	*	953	1169	22.7	*
35-44 Female	237	224	-5.5		621	529	-14.8	*	355	344	-3.1		644	1023	58.9	*
35-44 Male	135	138	2.2		510	425	-16.7	*	341	293	-14.1	*	803	1131	40.8	*
45-54 Female	437	382	-12.6	*	997	854	-14.3	*	514	482	-6.2	*	254	394	55.1	*
45-54 Male	208	178	-14.4	*	791	736	-7.0	*	598	524	-12.4	*	348	483	38.8	*
55-64 Female	620	619	-0.2		1074	1063	-1.0		531	574	8.1	*	58	101	74.1	*
55-64 Male	280	275	-1.8		1042	998	-4.2	*	640	652	1.9		91	157	72.5	*
65+ Female	586	571	-2.6		997	923	-7.4	*	374	365	-2.4		10	12	20.0	
65+ Male	335	297	-11.3	*	1087	1010	-7.1	*	431	447	3.7		8	13	62.5	*
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

Green River Area Development District

Comparison of Selected Prescription Dispensing Rates, Green River Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	2	2	0.0	*	35	32	-8.6	*	4	3	-25.0	*	0	0	0.0	
0-16 Male	3	2	-33.3	*	28	30	7.1	*	2	2	0.0	*	0	0	0.0	
17-24 Female	23	19	-17.4		237	227	-4.2		96	84	-12.5	*	14	25	78.6	*
17-24 Male	12	9	-25.0	*	139	128	-7.9	*	34	30	-11.8		17	9	-47.1	*
25-34 Female	132	118	-10.6	*	486	417	-14.2	*	211	205	-2.8		45	66	46.7	*
25-34 Male	46	37	-19.6	*	345	287	-16.8	*	128	98	-23.4	*	94	112	19.1	*
35-44 Female	259	227	-12.4	*	726	634	-12.7	*	270	287	6.3	*	62	79	27.4	*
35-44 Male	124	116	-6.5		589	547	-7.1	*	213	231	8.5	*	107	136	27.1	*
45-54 Female	348	319	-8.3	*	933	886	-5.0	*	338	373	10.4	*	35	44	25.7	*
45-54 Male	174	164	-5.7		854	784	-8.2	*	314	318	1.3		26	34	30.8	*
55-64 Female	421	420	-0.2		1013	1001	-1.2		387	426	10.1	*	14	16	14.3	*
55-64 Male	232	234	0.9		1025	988	-3.6	*	410	439	7.1	*	9	19	111.1	*
65+ Female	412	397	-3.6	*	929	901	-3.0	*	257	281	9.3	*	0	0	0.0	
65+ Male	210	217	3.3		788	796	1.0		227	268	18.1	*	0	0	0.0	
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

Kentucky River Area Development District

Comparison of Selected Prescription Dispensing Rates, Kentucky River Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	3	3	0.0	*	31	31	0.0	*	6	7	16.7	*	0	0	0.0	
0-16 Male	3	2	-33.3	*	33	27	-18.2	*	5	5	0.0	*	0	0	0.0	
17-24 Female	21	23	9.5		341	267	-21.7	*	83	94	13.3		276	243	-12.0	*
17-24 Male	15	14	-6.7		256	190	-25.8	*	63	56	-11.1		223	244	9.4	*
25-34 Female	117	73	-37.6	*	741	609	-17.8	*	163	152	-6.7		1615	1976	22.4	*
25-34 Male	77	68	-11.7		794	572	-28.0	*	173	166	-4.0		1553	1844	18.7	*
35-44 Female	315	273	-13.3	*	1334	1183	-11.3	*	329	326	-0.9		1631	1986	21.8	*
35-44 Male	203	156	-23.2	*	1297	1105	-14.8	*	397	363	-8.6	*	1705	2121	24.4	*
45-54 Female	536	475	-11.4	*	1924	1769	-8.1	*	586	553	-5.6	*	588	879	49.5	*
45-54 Male	346	327	-5.5		1816	1758	-3.2	*	680	712	4.7	*	563	864	53.5	*
55-64 Female	599	569	-5.0	*	1888	1913	1.3		567	611	7.8	*	158	205	29.7	*
55-64 Male	508	469	-7.7	*	2256	2225	-1.4		898	894	-0.4		246	295	19.9	*
65+ Female	717	714	-0.4		1719	1694	-1.5		467	502	7.5	*	13	21	61.5	*
65+ Male	414	431	4.1		1736	1724	-0.7		612	674	10.1	*	17	19	11.8	
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

KIPDA Area Development District

Comparison of Selected Prescription Dispensing Rates, KIPDA Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	4	4	0.0	*	27	28	3.7	*	5	4	-20.0	*	0	0	0.0	
0-16 Male	4	4	0.0	*	31	29	-6.5	*	4	3	-25.0	*	0	0	0.0	
17-24 Female	20	17	-15.0	*	233	221	-5.2	*	67	59	-11.9	*	16	13	-18.8	*
17-24 Male	9	9	0.0		176	155	-11.9	*	32	31	-3.1	*	16	14	-12.5	*
25-34 Female	105	100	-4.8	*	448	395	-11.8	*	146	137	-6.2	*	96	110	14.6	*
25-34 Male	53	44	-17.0	*	318	270	-15.1	*	67	62	-7.5	*	114	122	7.0	*
35-44 Female	230	221	-3.9	*	640	577	-9.8	*	234	225	-3.8	*	83	115	38.6	*
35-44 Male	109	102	-6.4	*	498	439	-11.8	*	160	155	-3.1	*	123	136	10.6	*
45-54 Female	318	300	-5.7	*	797	749	-6.0	*	316	316	0.0	*	31	39	25.8	*
45-54 Male	159	147	-7.5	*	660	588	-10.9	*	262	254	-3.1	*	36	44	22.2	*
55-64 Female	388	377	-2.8	*	928	898	-3.2	*	365	387	6.0	*	11	17	54.5	*
55-64 Male	216	198	-8.3	*	873	829	-5.0	*	358	370	3.4	*	22	26	18.2	*
65+ Female	424	409	-3.5	*	940	913	-2.9	*	273	288	5.5	*	0	1	100.0	*
65+ Male	211	206	-2.4	*	836	816	-2.4	*	263	277	5.3	*	2	3	50.0	*
All rates are based on prescriptions dispensed per 1000 residents.																

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Lake Cumberland Area Development District

Comparison of Selected Prescription Dispensing Rates, Lake Cumberland Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	2	2	0.0	*	34	37	8.8	*	3	3	0.0	*	0	0	0.0	
0-16 Male	2	3	50.0	*	36	33	-8.3	*	4	3	-25.0	*	0	0	0.0	
17-24 Female	22	13	-40.9	*	244	227	-7.0	*	51	48	-5.9		107	107	0.0	
17-24 Male	16	9	-43.8	*	149	149	0.0		26	20	-23.1	*	93	124	33.3	*
25-34 Female	169	116	-31.4	*	497	437	-12.1	*	137	124	-9.5	*	676	709	4.9	*
25-34 Male	100	64	-36.0	*	413	314	-24.0	*	83	64	-22.9	*	748	775	3.6	*
35-44 Female	430	299	-30.5	*	826	716	-13.3	*	249	216	-13.3	*	514	616	19.8	*
35-44 Male	217	157	-27.6	*	695	573	-17.6	*	218	186	-14.7	*	576	702	21.9	*
45-54 Female	568	465	-18.1	*	1078	974	-9.6	*	372	362	-2.7		181	253	39.8	*
45-54 Male	335	260	-22.4	*	1005	894	-11.0	*	394	377	-4.3	*	190	284	49.5	*
55-64 Female	645	577	-10.5	*	1288	1163	-9.7	*	414	418	1.0		60	100	66.7	*
55-64 Male	387	350	-9.6	*	1188	1122	-5.6	*	515	506	-1.7		73	70	-4.1	
65+ Female	523	489	-6.5	*	1051	990	-5.8	*	255	269	5.5	*	3	3	0.0	
65+ Male	324	289	-10.8	*	1070	1005	-6.1	*	282	299	6.0	*	10	10	0.0	
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

Lincoln Trail Area Development District

Comparison of Selected Prescription Dispensing Rates, Lincoln Trail Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	1	1	0.0	*	35	35	0.0	*	4	5	25.0	*	0	0	0.0	
0-16 Male	1	1	0.0	*	34	35	2.9	*	5	4	-20.0	*	0	0	0.0	
17-24 Female	11	11	0.0		248	249	0.4		89	79	-11.2	*	14	14	0.0	*
17-24 Male	3	3	0.0		162	156	-3.7		36	37	2.8		16	14	-12.5	
25-34 Female	69	58	-15.9	*	490	461	-5.9	*	180	171	-5.0		107	129	20.6	*
25-34 Male	42	34	-19.0	*	356	318	-10.7	*	91	81	-11.0	*	162	168	3.7	
35-44 Female	176	151	-14.2	*	711	688	-3.2	*	266	268	0.8		87	119	36.8	*
35-44 Male	102	92	-9.8	*	577	540	-6.4	*	203	210	3.4		135	187	38.5	*
45-54 Female	278	249	-10.4	*	894	879	-1.7		339	347	2.4		27	38	40.7	*
45-54 Male	133	121	-9.0	*	768	730	-4.9	*	333	336	0.9		34	56	64.7	*
55-64 Female	340	322	-5.3	*	1010	1021	1.1		369	425	15.2	*	12	16	33.3	*
55-64 Male	190	182	-4.2		1017	1003	-1.4		427	443	3.7	*	13	16	23.1	*
65+ Female	350	337	-3.7	*	952	943	-0.9		278	287	3.2		0	0	0.0	*
65+ Male	192	180	-6.3	*	950	895	-5.8	*	309	319	3.2		2	2	0.0	
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

Northern Kentucky Area Development District

Comparison of Selected Prescription Dispensing Rates, Northern Kentucky Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	2	3	50.0	*	14	13	-7.1	*	8	8	0.0	*	0	0	0.0	
0-16 Male	2	3	50.0	*	13	11	-15.4	*	8	8	0.0	*	0	0	0.0	*
17-24 Female	9	10	11.1		158	136	-13.9	*	111	102	-8.1	*	11	20	81.8	*
17-24 Male	6	7	16.7		105	94	-10.5	*	72	65	-9.7	*	24	17	-29.2	*
25-34 Female	61	50	-18.0	*	268	208	-22.4	*	258	234	-9.3	*	100	130	30.0	*
25-34 Male	31	27	-12.9	*	184	149	-19.0	*	154	138	-10.4	*	148	151	2.0	
35-44 Female	145	130	-10.3	*	372	320	-14.0	*	426	397	-6.8	*	107	145	35.5	*
35-44 Male	73	60	-17.8	*	273	230	-15.8	*	319	286	-10.3	*	131	158	20.6	*
45-54 Female	222	201	-9.5	*	479	435	-9.2	*	591	570	-3.6	*	34	52	52.9	*
45-54 Male	104	89	-14.4	*	355	313	-11.8	*	525	501	-4.6	*	53	72	35.8	*
55-64 Female	274	262	-4.4	*	562	523	-6.9	*	686	685	-0.1		13	20	53.8	*
55-64 Male	139	133	-4.3	*	449	423	-5.8	*	682	672	-1.5		23	25	8.7	
65+ Female	274	256	-6.6	*	650	601	-7.5	*	530	509	-4.0	*	0	1	100.0	
65+ Male	134	133	-0.7		452	420	-7.1	*	499	513	2.8		1	3	200.0	*
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

Pennyriple Area Development District

Comparison of Selected Prescription Dispensing Rates, Pennyriple Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	1	1	0.0	*	29	24	-17.2	*	3	3	0.0	*	0	0	0.0	
0-16 Male	4	3	-25.0	*	24	24	0.0	*	2	2	0.0	*	0	0	0.0	
17-24 Female	30	22	-26.7	*	236	219	-7.2	*	74	73	-1.4		10	17	70.0	*
17-24 Male	7	9	28.6	*	106	91	-14.2	*	25	25	0.0		20	12	-40.0	*
25-34 Female	113	107	-5.3		504	451	-10.5	*	164	172	4.9		148	185	25.0	*
25-34 Male	31	33	6.5		331	307	-7.3	*	86	79	-8.1	*	214	283	32.2	*
35-44 Female	270	266	-1.5		801	782	-2.4		280	295	5.4	*	138	181	31.2	*
35-44 Male	124	129	4.0		708	639	-9.7	*	216	223	3.2		188	234	24.5	*
45-54 Female	373	370	-0.8		1156	1106	-4.3	*	379	410	8.2	*	50	74	48.0	*
45-54 Male	231	216	-6.5	*	1080	1006	-6.9	*	395	408	3.3		87	115	32.2	*
55-64 Female	464	492	6.0	*	1236	1232	-0.3		442	509	15.2	*	15	29	93.3	*
55-64 Male	246	269	9.3	*	1227	1193	-2.8	*	431	501	16.2	*	39	38	-2.6	*
65+ Female	436	438	0.5		1127	1107	-1.8		309	337	9.1	*	0	0	0.0	
65+ Male	204	202	-1.0		986	981	-0.5		305	331	8.5	*	3	5	66.7	*
All rates are based on prescriptions dispensed per 1000 residents.																

All rates are based on prescriptions dispensed per 1000 residents.

Purchase Area Development District

Comparison of Selected Prescription Dispensing Rates, Purchase Area Development District, Kentucky 2015-2016																
Age and Gender	Alprazolam				Hydrocodone				Oxycodone				Buprenorphine-Naloxone			
	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant	2015 Rate	2016 Rate	% Change	Significant
0-16 Female	4	2	-50.0	*	33	33	0.0	*	6	6	0.0	*	0	0	0.0	
0-16 Male	3	1	-66.7	*	31	31	0.0	*	5	5	0.0	*	0	0	0.0	
17-24 Female	26	26	0.0		183	175	-4.4		103	117	13.6	*	5	21	320.0	*
17-24 Male	11	9	-18.2		138	126	-8.7	*	58	54	-6.9		30	36	20.0	*
25-34 Female	204	181	-11.3	*	558	489	-12.4	*	227	229	0.9		164	246	50.0	*
25-34 Male	81	75	-7.4		400	379	-5.3	*	103	101	-1.9		217	276	27.2	*
35-44 Female	427	440	3.0		923	907	-1.7		311	356	14.5	*	123	185	50.4	*
35-44 Male	193	186	-3.6		751	680	-9.5	*	261	277	6.1	*	203	271	33.5	*
45-54 Female	549	537	-2.2		1177	1169	-0.7		394	453	15.0	*	61	75	23.0	*
45-54 Male	267	261	-2.2		1067	1096	2.7	*	386	421	9.1	*	62	108	74.2	*
55-64 Female	617	630	2.1		1374	1383	0.7		472	528	11.9	*	21	33	57.1	*
55-64 Male	322	320	-0.6		1253	1237	-1.3		477	548	14.9	*	22	16	-27.3	*
65+ Female	494	503	1.8		1120	1124	0.4		331	376	13.6	*	4	4	0.0	
65+ Male	260	244	-6.2	*	957	941	-1.7		332	356	7.2	*	0	1	100.0	*
All rates are based on prescriptions dispensed per 1000 residents.																

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