2015

ANNUAL KASPER THRESHOLD ANALYSIS REPORT
2015 KENTUCKY ALL SCHEDULE PRESCRIPTION ELECTRONIC REPORTING (KASPER) ANNUAL THRESHOLD ANALYSIS REPORT

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Introduction

The Kentucky All Schedule Prescription Electronic Reporting (KASPER) System Annual Threshold Analysis Report provides controlled substance dispensing rates by age group, gender, and geographic location, based on KASPER controlled substances dispensing data for calendar year 2015. This report includes state-level analysis by age group and gender for all dispensed Schedule II through V controlled substances, opioid and Schedule II stimulant classes, and five specific drugs including alprazolam, buprenorphine/naloxone combination, hydrocodone, methadone, and oxycodone. The report also includes regional analysis by age group, gender, and geographic location based on the 15 Area Development Districts of Kentucky for four specific drugs: alprazolam, hydrocodone, oxycodone, and buprenorphine/naloxone combination.

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Contents

Introduction .................................................................................................................................................. ii

Executive Summary ..................................................................................................................................... iv

STATEWIDE DATA.......................................................................................................................................... 1
  Age and Gender ........................................................................................................................................ 6

REGIONAL LEVEL DATA ............................................................................................................................. 7
  Area Development District Map ........................................................................................................... 7

SPECIFIC DRUG, AGE, GENDER, AND REGION ........................................................................................... 8

AREA DEVELOPMENT DISTRICT DATA......................................................................................................... 16
  Barren River ADD .................................................................................................................................... 16
  Big Sandy ADD......................................................................................................................................... 19
  Bluegrass ADD......................................................................................................................................... 23
  Buffalo Trace ADD.................................................................................................................................. 26
  Cumberland Valley ADD .......................................................................................................................... 30
  FIVCO ADD............................................................................................................................................... 33
  Gateway ADD.......................................................................................................................................... 37
  Green River ADD.................................................................................................................................... 40
  Kentucky River ADD................................................................................................................................. 44
  KIPDA ADD.............................................................................................................................................. 47
  Lake Cumberland ADD ............................................................................................................................ 51
  Lincoln Trail ADD.................................................................................................................................. 54
  Northern Kentucky ADD .......................................................................................................................... 58
  Pennyrile ADD ......................................................................................................................................... 61
  Purchase ADD.......................................................................................................................................... 65
Executive Summary

1. Females over 17 years of age were dispensed Schedule II-V controlled substances at higher rates than males over 17 years of age. Males aged 0 to 16 years were dispensed controlled substances at higher rates than females the same age.

2. The Schedule II-V controlled substance dispensing rates were fairly consistent across the four quarters of 2015 for all age groups. Females aged 55 to 64 years had the highest Schedule II-V controlled substance dispensing rate.

3. In 2015, the alprazolam dispensing rate in Kentucky was 169 prescriptions/1000 Kentucky residents. Alprazolam dispensing rates declined for both males and females aged 25 to 54 years over the four quarters of 2015. For females and males over 65 years of age, the alprazolam prescriptions dispensing rate increased in both the third and fourth quarters of 2015.

4. In 2015, the buprenorphine/naloxone dispensing rate in Kentucky was 123 prescriptions/1000 Kentucky residents. Over the four quarters of 2015, buprenorphine/naloxone dispensing rates increased across most age/gender groups. The highest buprenorphine/naloxone dispensing rates were for males aged 25 to 34 years.

5. In 2015, the hydrocodone dispensing rate in Kentucky was 557 prescriptions/1000 Kentucky residents. Hydrocodone dispensing rates for males and females aged 25 and 54 years declined during 2015. The highest hydrocodone dispensing rates were for males and females aged 55 to 64 years.

6. In 2015, the oxycodone dispensing rate in Kentucky was 219 prescriptions/1000 Kentucky residents. Oxycodone dispensing rates increased across all age and gender groups in 2015. The highest dispensing rates were for males aged 55 to 64 years.

7. There were regional differences in rates of dispensing of alprazolam, buprenorphine/naloxone, hydrocodone, and oxycodone in 2015. Rates were calculated for each of Kentucky’s 15 Area Development Districts (ADD).

   a. The highest alprazolam dispensing rates were in the Cumberland Valley ADD (301 prescriptions dispensed/1000 ADD residents), Kentucky River ADD (288 prescriptions dispensed/1000 ADD residents), and Lake Cumberland ADD (268 prescriptions dispensed/1000 ADD residents). The lowest alprazolam dispensing rate was in the Northern Kentucky ADD at 98 prescriptions dispensed/1000 ADD residents.

   b. The highest buprenorphine/naloxone dispensing rates were in the Kentucky River ADD (681 prescriptions dispensed/1000 ADD residents), Big Sandy ADD (457 prescriptions dispensed/1000 ADD residents), and Cumberland Valley ADD
(392 prescriptions dispensed/1000 ADD residents). The lowest buprenorphine/naloxone dispensing rate was in the KIPDA ADD at 41 prescriptions/1000 ADD residents.

c. The highest hydrocodone dispensing rates were in the Kentucky River ADD (1,157 prescriptions dispensed/1000 ADD residents), Big Sandy ADD (1,029 prescriptions dispensed/1000 ADD residents), and Cumberland Valley ADD (990 prescriptions dispensed/1000 ADD residents). The lowest hydrocodone dispensing rate was in the Northern Kentucky ADD at 285 prescriptions/1000 ADD residents.

d. The highest oxycodone dispensing rates were in Kentucky River ADD (362 prescriptions dispensed/1000 ADD residents), Northern Kentucky ADD (320 prescriptions/1000 ADD residents), and Gateway ADD (287 prescriptions dispensed/1000 ADD residents). The lowest oxycodone dispensing rate was in the Barren River ADD at 156 prescriptions dispensed/1000 ADD residents.
STATEWIDE DATA

Rates of Specific Controlled Substances Dispensed in Kentucky, 2015

- Alprazolam
- Buprenorphine/Naloxone
- Hydrocodone
- Oxycodone

Rate of Schedule II-V Controlled Substance Prescriptions Dispensed by Age and Gender, Kentucky 2015

- 1st Quarter
- 2nd Quarter
- 3rd Quarter
- 4th Quarter
Rate of Aprazolam Prescriptions Dispensed by Age and Gender, Kentucky 2015

Rate of Buprenorphine/Naloxone Prescriptions Dispensed by Age and Gender, Kentucky 2015
Rate of Schedule II Stimulant Prescriptions Dispensed by Age and Gender, Kentucky 2015

Prescriptions dispensed per 1000 persons

Gender and Age (in Years)

1st Quarter 2nd Quarter 3rd Quarter 4th Quarter

0-16 Female 0-16 Male 17-24 Female 17-24 Male

25-34 Female 25-34 Male 35-44 Female 35-44 Male

45-54 Female 45-54 Male 55-64 Female 55-64 Male

65+ Female 65+ Male
Age and Gender

Rate of Controlled Substances Dispensed to Female Residents by Age Group, Kentucky 2015

Rate of Controlled Substances Dispensed to Male Residents by Age Group, Kentucky 2015
Rates of Controlled Substances Prescriptions Dispensed to Residents by Area Development District, Kentucky 2015

Rates of Alprazolam Prescriptions Dispensed to Residents by Area Development District, Kentucky 2015
Rate of Alprazolam Prescriptions Dispensed by Age and Gender by Area Development District, Kentucky 2015

Barren River  Big Sandy  Bluegrass  Buffalo Trace  Cumberland Valley
FIVCO  Gateway  Green River  Kentucky River  KIPDA
Lake Cumberland  Lincoln Trail  Northern Kentucky  Pennyrile  Purchase

PRESCRIPTIONS DISPENSED PER 1000 FEMALES

PRESCRIPTIONS DISPENSED PER 1000 MALES

AGE (IN YEARS) AND GENDER
Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents by Area Development District, Kentucky 2015

Prescriptions dispensed per 1000 persons

Area Development District
Rate of Buprenorphine-Naloxone Prescriptions Dispensed by Age and Gender by Area Development Districts, Kentucky 2015

PRESCRIPTIONS DISPENSED PER 1000 FEMALES

AGE (IN YEARS) AND GENDER

PRESCRIPTIONS DISPENSED PER 1000 MALES
Rates of Hydrocodone Prescriptions Dispensed to Residents by Area Development District, Kentucky 2015

Prescriptions dispensed per 1000 persons

Area Development District
Rate of Hydrocodone Prescriptions by Age and Gender by Area Development District, Kentucky 2015

PRESCRIPTIONS DISPENSED PER 1000 FEMALES

PRESCRIPTIONS DISPENSED PER 1000 MALES

AGE (IN YEARS) AND GENDER
Rates of Oxycodone Prescriptions Dispensed to Residents by Area Development District, Kentucky 2015
Rate of Oxycodone Prescriptions Dispensed by Age and Gender by Area Development District, Kentucky 2015

PRESCRIPTIONS DISPENSED PER 1000 FEMALES

PRESCRIPTIONS DISPENSED PER 1000 MALES

AGE (IN YEARS) AND GENDER
AREA DEVELOPMENT DISTRICT DATA

Barren River ADD

Rates of Controlled Substance Prescriptions Dispensed to Residents of Barren River Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Female Residents of Barren River Area Development District, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Male Residents of Barren River Development District, Kentucky 2015

Rates of Alprazolam Prescriptions Dispensed to Residents of Barren River Area Development District by Age and Gender, Kentucky 2015
Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents of Barren River Area Development District by Age and Gender, Kentucky 2015

Rates of Hydrocodone Prescriptions Dispensed to Residents of Barren River Area Development District by Age and Gender, Kentucky 2015
Rates of Oxycodone Prescriptions Dispensed to Residents of Barren River Area Development District by Age and Gender, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Residents of Big Sandy Area Development District, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Female Residents of Big Sandy Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Male Residents of Big Sandy Area Development District, Kentucky 2015
Rates of Alprazolam Prescriptions Dispensed to Residents of Big Sandy Area Development District by Age and Gender, Kentucky 2015

Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents of Big Sandy Area Development District by Age and Gender, Kentucky 2015
Rates of Hydrocodone Prescriptions Dispensed to Residents of Big Sandy Development District by Age and Gender, Kentucky 2015

Rates of Oxycodone Prescriptions Dispensed to Residents of Big Sandy Area Development District by Age and Gender, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Residents of Bluegrass Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Female Residents of Bluegrass Area Development District, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Male Residents of Bluegrass Area Development District, Kentucky 2015

Rates of Alprazolam Prescriptions Dispensed to Residents of Bluegrass Area Development District by Age and Gender, Kentucky 2015
Rates of Oxycodone Prescriptions Dispensed to Residents of Bluegrass Area Development District by Age and Gender, Kentucky 2015

Rate of Controlled Substance Prescriptions Dispensed to Residents of Buffalo Trace Area Development District, Kentucky 2015

Buffalo Trace ADD

Alprazolam  Hydrocodone  Oxycodone  Buprenorphine-Naloxone
Rates of Controlled Substance Prescriptions Dispensed to Female Residents of Buffalo Trace Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Male Residents of Buffalo Trace Area Development District, Kentucky 2015
Rates of Alprazolam Prescriptions Dispensed to Residents of Buffalo Trace Area Development District by Age and Gender, Kentucky 2015

Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents of Buffalo Trace Area Development District by Age and Gender, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Residents of Cumberland Valley Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Female Residents of Cumberland Valley Area Development District, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Male Residents of Cumberland Valley Area Development District, Kentucky 2015

Rates of Alprazolam Prescriptions Dispensed to Residents of Cumberland Valley Area Development District by Age and Gender, Kentucky 2015
Rates of Oxycodone Prescriptions Dispensed to Residents of Cumberland Valley Area Development District by Age and Gender, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Residents of FIVCO Area Development District, Kentucky 2015

FIVCO ADD
Rates of Controlled Substance Prescriptions Dispensed to Female Residents of FIVCO Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Male Residents of FIVCO Area Development District, Kentucky 2015
Rates of Alprazolam Prescriptions Dispensed to Residents of FIVCO Area Development District by Age and Gender, Kentucky 2015

Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents of FIVCO Area Development District by Age and Gender, Kentucky 2015
Rates of Hydrocodone Prescriptions Dispensed to Residents of FIVCO Area Development District by Age and Gender, Kentucky 2015

Rates of Oxycodone Prescriptions Dispensed to Residents of FIVCO Area Development District by Age and Gender, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Residents of Gateway Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Female Residents of Gateway Area Development District, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Male Residents of Gateway Area Development District, Kentucky 2015

Rates of Alprazolam Prescriptions Dispensed to Residents of Gateway Area Development District by Age and Gender, Kentucky 2015
Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents of Gateway Area Development District by Age and Gender, Kentucky 2015

Rates of Hydrocodone Prescriptions Dispensed to Residents of Gateway Area Development District by Age and Gender, Kentucky 2015
Rates of Oxycodone Prescriptions Dispensed Residents of Gateway Area Development District by Age and Gender, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Residents of Green River Area Development District, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Female Residents of Green River Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Male Residents of Green River Area Development District, Kentucky 2015
Rates of Alprazolam Prescriptions Dispensed to Residents of Green River Area Development District by Age and Gender, Kentucky 2015

Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents of Green River Area Development District by Age and Gender, Kentucky 2015
Rates of Hydrocodone Prescriptions Dispensed to Residents of Green River Area Development District by Age and Gender, Kentucky 2015

Rates of Oxycodone Prescriptions Dispensed to Residents of Green River Area Development District by Age and Gender, Kentucky 2015
Kentucky River ADD

Rates of Controlled Substance Prescriptions Dispensed to Residents of Kentucky River Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Female Residents in the Kentucky River Area Development District, Kentucky 2015
Rate of Controlled Substance Prescriptions Dispensed to Male Residents in the Kentucky River Area Development District, Kentucky 2015

Rates of Alprazolam Prescriptions Dispensed to Residents of Kentucky River Area Development District, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Female Residents of KIPDA Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Male Residents of KIPDA Area Development District, Kentucky, 2015
Rate of Alprazolam Prescriptions Dispensed to Residents of KIPDA Area Development District, Kentucky 2015

Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents of KIPDA Area Development District, Kentucky 2015

49
Rates of Hydrocodone Prescriptions Dispensed to Residents of KIPDA Area Development District, Kentucky 2015

Rates of Oxycodone Prescriptions Dispensed to Residents of KIPDA Area Development District, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Residents of Lake Cumberland Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Female Residents of Lake Cumberland Area Development District, Kentucky 2015
Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents of Lake Cumberland Area Development District, Kentucky 2015

Rates of Hydrocodone Prescriptions Dispensed to Residents of Lake Cumberland Area Development District, Kentucky 2015
Rates of Oxycodone Prescriptions Dispensed to Residents of Lake Cumberland Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Residents of Lincoln Trail Area Development District, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Female Residents of Lincoln Trail Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Male Residents of Lincoln Trail Area Development District, Kentucky 2015
Rates of Alprazolam Prescriptions Dispensed to Residents of Lincoln Trail Area Development District, Kentucky 2015

Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents of Lincoln Trail Area Development District, Kentucky 2015
Rates of Hydrocodone Prescriptions Dispensed to Residents of Lincoln Trail Area Development District, Kentucky 2015

Rates of Oxycodone Prescriptions Dispensed to Residents of Lincoln Trail Area Development District, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Residents of Northern Kentucky Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Female Residents of Northern Kentucky Area Development District, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Male Residents of Northern Kentucky Area Development District, Kentucky 2015

Prescriptions dispensed per 1000 males

Age (in Years)

Rates of Alprazolam Prescriptions Dispensed to Residents of Northern Kentucky Area Development District, Kentucky 2015

Prescriptions dispensed per 1000 persons

Age (in Years) and Gender
Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents of Northern Kentucky Area Development District, Kentucky 2015

Rates of Hydrocodone Prescriptions Dispensed to Residents of Northern Kentucky Area Development District, Kentucky 2015
Rates of Oxycodone Prescriptions Dispensed to Residents of Northern Kentucky Area Development District, Kentucky 2015

Rate of Controlled Substance Prescriptions Dispensed to Residents of Pennyrile Area Development District, Kentucky 2015

Pennyrile ADD
Rates of Controlled Substance Prescriptions Dispensed to Female Residents of Pennyrile Area Development District, Kentucky 2015

Rates of Controlled Substance Prescriptions Dispensed to Male Residents of Pennyrile Area Development District, Kentucky 2015
Rates of Alprazolam Prescriptions Dispensed to Residents of Pennyrile Area Development District, Kentucky 2015

Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents of Pennyrile Area Development District, Kentucky 2015
Rates of Hydrocodone Prescriptions Dispensed to Residents of Pennyrile Area Development District, Kentucky 2015

Rates of Oxycodone Prescriptions Dispensed to Residents of Pennyrile Area Development District, Kentucky 2015
Rates of Controlled Substance Prescriptions Dispensed to Male Residents of Pennyrile Area Development District, Kentucky 2015

Rates of Alprazolam Prescriptions Dispensed to Residents of Pennyrile Area Development District, Kentucky 2015
Rates of Buprenorphine-Naloxone Prescriptions Dispensed to Residents of Pennyrile Area Development District, Kentucky 2015

Rates of Hydrocodone Prescriptions Dispensed to Residents of Pennyrile Area Development District, Kentucky 2015
Rates of Oxycodone Prescriptions Dispensed to Residents of Pennyrile Area Development District, Kentucky 2015

Prescriptions dispensed per 1000 persons

Age (in Years) and Gender