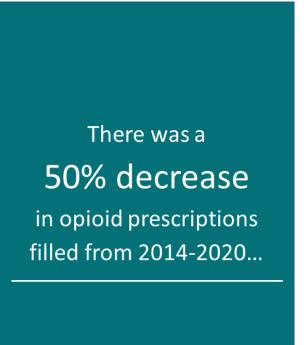
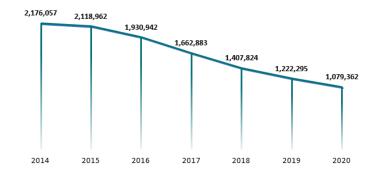
West Virginia Board of Pharmacy Prescription Opioid Indicators Report

### Boone County – 2020

The West Virginia Violence and Injury Prevention Program (WV VIPP), in collaboration with the West Virginia Board of Pharmacy, under the direction of the Centers for Disease Control and Prevention (CDC), continues to work to address prescription drug misuse, diversion, and overdose within the state of West Virginia. Prescription drug overdose continues to be a major issue in West Virginia. Preliminary data from the West Virginia Heath Statistics Center shows that in 2019, more than 880 people died in association with drug misuse (including prescription and illicit drugs) with a rate of 52.8 per 100,000 population. This is nearly two and a half times the national average. To help combat this epidemic, CDC provided specific indicators to identify high-risk areas within the state to allow for intervention and community education.





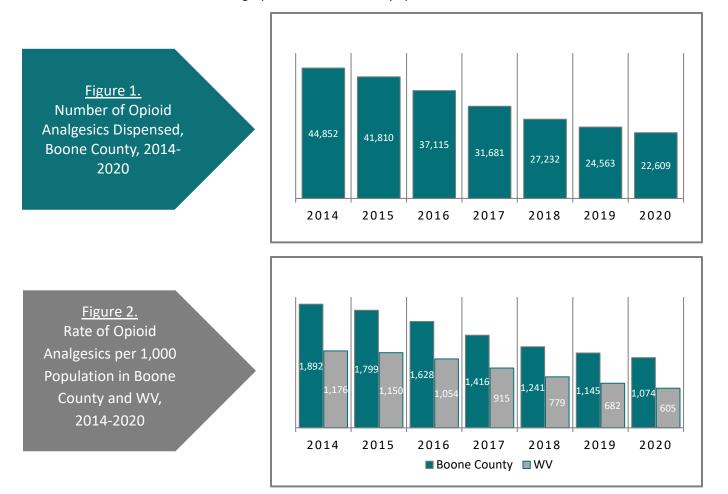


### ...with over **10 million** fewer opioid pills dispensed from 2019 to 2020 in West Virginia.

Source: West VirginiaControlled Substance Monitoring Program

#### Indicator 1: Number and rate of opioid analgesics per 1,000 state residents.

This indicator includes all opioid prescriptions that are classified as either Schedule II, III, IV, or V. The figures below show the total number of opioid prescriptions for Boone County and the rate per 1,000 population compared to the state. Census data was used to obtain demographic information and population size.



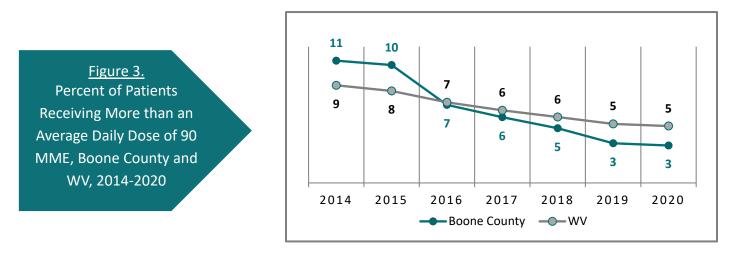
Source: West Virginia Controlled Substance Monitoring Program

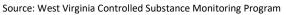
### What Does This Mean?

This indicator is important because it provides information about prescription opioid use for each county. These data will help determine areas where high prescribing/dispensing are occurring around the state and allow for education on responsible opioid prescribing. High rates of opioid dispensing mean large quantities of opioids that are out in the community. There is an overall decrease in the rate and number of opioids being prescribed in Boone County and the state from 2014-2020. The rate for Boone County was considerably higher than the state.

# Indicator 2: Percent of patients receiving more than an average daily dose of 90 morphine milligram equivalents (MME).

This indicator shows the total average daily dose of MMEs that a patient is taking. It includes all opioid prescriptions that are classified as either Schedule II, III, IV, or V. MMEs are used as a measure to describe the potency of an opioid. Calculating MMEs is important to determine which patients may be at risk for an overdose. The figure below shows the percent of patients with greater than an average daily dose of 90 MMEs in Boone County compared to the state during 2014-2020.



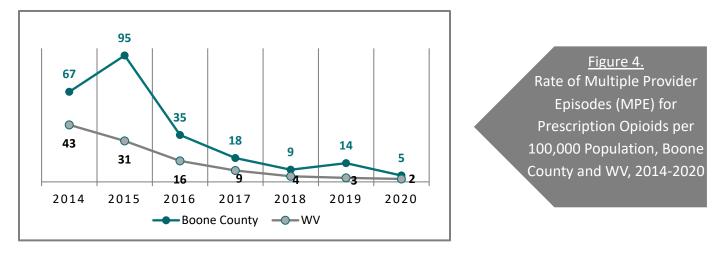


### What Does This Mean?

This indicator is important because it provides information for prescribers about how much morphine equivalent drug the patient is receiving. MMEs help determine the amount of morphine an opioid dose is equal to when prescribed, often used as a gauge of the abuse and overdose potential of the amount of opioid that is being given at a particular time. It is also a useful tool to identify high-burden areas in the state, which is important for public health surveillance at the county level. From 2016-2020, Boone County's percent of patients receiving more than an average daily dose of 90 MMEs was lower than the state average and decreased during this time.

### Indicator 3: Rate of multiple provider episodes for prescription opioids (5 or more prescribers and 5 or more pharmacies in a 6-month period) per 100,00 residents.

This indicator shows the rate of patients who went to 5 or more prescribers and 5 or more pharmacies within a 6-month period, or multiple provider episode (MPE). The rate is calculated per 100,000 population. It includes all opioid prescriptions that are classified as either Schedule II, III, IV, or V.



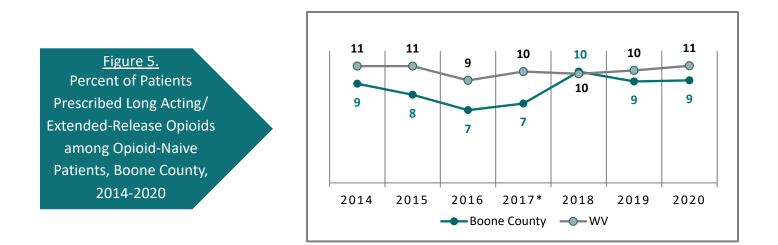
Source: West Virginia Controlled Substance Monitoring Program

### What Does This Mean?

This indicator is important because provides valuable information on prescription filling behaviors. Patients who receive prescriptions from more than five doctors and who fill at more than five pharmacies are at greater risk of drug overdose. This indicator helps determine patients who may have drug-seeking habits (i.e., "doctor shopping"). From 2014-2020, Boone County had a considerable decrease in the rate of patients who qualified as having an MPE.

# Indicator 4: Percent of patients prescribed long-acting/extended-release opioids among opioid-naïve patients.

This indicator represents the percent of patients with no prescribed opioid prescriptions in the previous 45 days\* who were prescribed at least one long acting/extended-release (LA/ER) opioid, among all patients with LA/ER opioid prescriptions. It includes all opioid prescriptions that are classified as either Schedule II, III, IV, or V.



Source: West Virginia Controlled Substance Monitoring Program

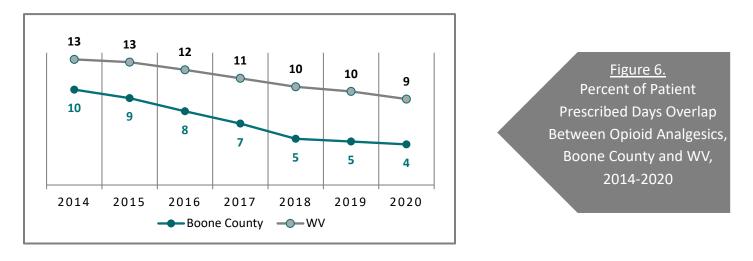
### What Does This Mean?

This indicator is important to understand because it provides information about individuals who are not accustomed to opioid medications, which may potentially increase the risk of opioid dependence, misuse, or overdose. CDC opioid prescribing guidelines recommend using immediate release (IR) opioids before taking LA/ER. From 2014-2016, Boone County saw a decrease in patients who were opioid-naïve and was lower than the state average but increased in 2017 and 2018. However, there was a decrease from 2018-2020.

\*Note that CDC changed the definition of "opioid-naïve" from 60 days to 45 days in 2017.

# Indicator 5: Percent of patient prescription days with overlapping opioid prescriptions.

This indicator shows the percent of days in which more than one prescribed opioid prescription during the same time period were dispensed, among all prescription days. It includes all opioid prescriptions that are classified as either Schedule II, III, IV, or V.



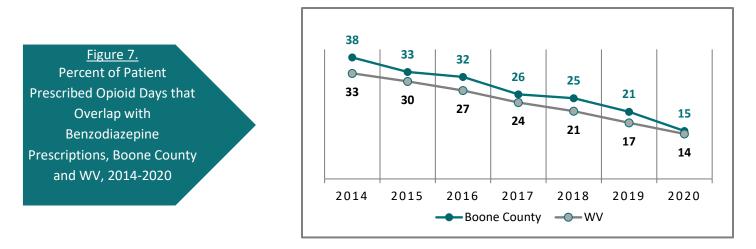
Source: West Virginia Controlled Substance Monitoring Program

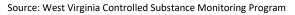
### What Does This Mean?

This indicator represents the patients who may potentially be using their opioid prescriptions not as prescribed or may show areas where drug diversion is occurring. Using multiple opioid prescriptions during the same time period increased the risk for drug dependency and overdose. It is important to understand this because a considerable number of drug overdose deaths include more than one opioid. During 2014-2020, Boone County had a considerably lower percent of prescription overlap compared to the state average and saw a decrease during this time.

## Indicator 6: Percent of patient prescriptions days with overlapping opioid and benzodiazepine prescriptions.

This indicator represents the percent of patients who have an opioid and a benzodiazepine (i.e., Lorazepam, Diazepam) prescription on the same day among all opioid prescription days. It includes all opioid prescriptions that are classified as either Schedule II, III, IV, or V.





### What Does This Mean?

This indicator is important because it shows areas in the state where patients are using both opioids and benzodiazepine drugs at the same time. Taking an opioid with a benzodiazepine increases the risk for drug overdose and death, as both classes of medication depress the central nervous system. From 2014-2020, Boone County had a higher percent of days where there was an overlapping opioid and benzodiazepine prescription than the state average but decreased over this time.

Patient County Indicator 1 Indicator 3 Indicator 4 Indicator 5 Indicator 5   BARBOUR 30 20 36.5 44.5 2 30   BERNELEY 35 4 15 44.5 2 40   BOONE 1 46 8 39.5 48 4   BRANTON 43 19 36.5 36 20 32   BRONK 26 28 36.5 36 30.5 12   CALHOUN 44 41 36.5 37 16 48.5   CALHOUN 44 36.5 37 16 48.5   FAVETTE 19 38 7 15 34 34.5   GRANT 40 48 36.5 41 14 23.5 20   HAMCKC 13 15 36.5 32.7 6 27.5   MARCON 49 30 36.5 27 6 27.5   J	County Rankings by Indicator							
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BRAXTON 43 19 36.5 36 20 32   BROOKE 26 28 36.5 23 10.5 42.5   CABELL 9 43 17 23 36.5 12   CALHOUN 44 41 35.5 37 16 48.5   CALHOUN 44 41 36.5 37 16 48.5   DODDRIDE 54 7 36.5 37 16 48.5   FAVETTE 19 38 7 15 34 34.5   GRANT 40 48 36.5 41 14 23.5   GREENBRIER 15 13 36.5 32 8 49.5   HANCOCK 13 15 36.5 37 6 27.5   HARDY 49 30 36.5 37.7 6 27.5   HARDY 49 3 31 42 27.5   HARDY 49 <td< td=""><td>BERKELEY</td><td>35</td><td>4</td><td>15</td><td>44.5</td><td>2</td><td>40</td></td<>	BERKELEY	35	4	15	44.5	2	40	
BROOKE 26 28 36.5 23 10.5 42.5   CABELL 9 43 17 23 36.5 12   CALHOUN 44 41 36.5 33 44 50   CLAY 5 25 36.5 37 16 48.5   DODDRIDGE 54 7 36.5 37 16 48.5   GILMER 50 23 36.5 17 17.5 36.5   GRANT 40 48 36.5 41 14 23.5   GRANT 40 48 36.5 32 30.5 20   HANDY 49 30 36.5 32 8 48.5   HARDY 49 30 36.5 37.5 24 9.5   JACKSON 45 54 11 10 43 33   JEFFENSON 39 3 12 38 4 46   KANAWHA 14 <td>BOONE</td> <td>1</td> <td>46</td> <td>8</td> <td>39.5</td> <td>48</td> <td>4</td>	BOONE	1	46	8	39.5	48	4	
CABELL 9 43 17 23 36.5 12   CALHOUN 44 41 36.5 3 44 50   CLAY 5 25 36.5 35 28 55   DODDRIDGE 54 7 36.5 37 16 48.5   FAVETTE 19 38 7 15 34 34.5   GRANN 40 48 36.5 41 14 23.5   GRENBRIER 15 13 36.5 23 30.5 20   HAMCOCK 13 15 36.5 32 8 48.5   HARDY 49 30 36.5 37.7 6 27.5   JACKSON 41 17 36.5 34 44 46   KAANWHA 14 49 9 31 42 27.5   JACKSON 42 36.5 47.5 26.5 2.0   JACKSON 32 3	BRAXTON	43	19	36.5	36	20	32	
CALHOUN 44 41 36.5 3 44 50   CLAY 5 25 36.5 35 28 55   DODDRIDGE 54 7 36.5 37 16 48.5   FAYETTE 19 38 7 15 34 34.5   GILMER 50 23 36.5 17 17.5 36.5   GRANT 40 48 36.5 23 30.5 20   HAMPSHIRE 29 2 36.5 32 8 48.5   HARDY 49 30 36.5 32.5 24 9.5   JACKSON 11 17 36.5 39.5 24 9.5   JACKSON 45 54 11 10 43 33   JACKSON 45 54 11 10 44 65 13 13 30.5 7.5   LINCOLN 4 32 36.5 47.5 49 </td <td>BROOKE</td> <td>26</td> <td>28</td> <td>36.5</td> <td>23</td> <td>10.5</td> <td>42.5</td>	BROOKE	26	28	36.5	23	10.5	42.5	
CLAY 5 25 36,5 35 28 55   DODDDRDE 54 7 36,5 37 16 48,5   GILMER 19 38 7 15 34 34,5   GILMER 50 23 36,5 17 17,5 36,5   GRENT 40 48 36,5 41 14 23,5   GRENT 40 48 36,5 43 3 47   HAMPSHIRE 29 2 36,5 32 8 48,5   HARDY 49 30 36,5 37 6 27,5   JACKSON 45 54 11 10 43 33   JEFFERSON 39 3 12 38 4 46   KANAWHA 14 49 9 31 42 27,5   LINCOLN 4 32 36,5 341 33 30,5   LINCOLN 4	CABELL	9	43	17	23	36.5	12	
DODDRIDGE 54 7 36.5 37 16 48.5   FAYETTE 19 38 7 15 34 34.5   GILMER 50 23 36.5 17 17.5 36.5   GRANT 40 48 36.5 23 30.5 20   HAMPSHIRE 15 13 36.5 23 30.5 20   HANCOCK 13 15 36.5 32 8 48.5   HARDY 49 30 36.5 27 6 27.5   JACKSON 45 54 11 10 43 33   JACKSON 45 54 11 10 43 30.5   LINCOLN 4 32 36.5 47.5 26.5 2   LOGAN 2 44 5 44.5 49 3   MARION 28 31 36.5 18.5 34 44   MASON 32<	CALHOUN	44	41	36.5	3	44	50	
FAVETTE 19 38 7 15 34 34.5   GILMER 50 23 36.5 17 17.5 36.5   GRENRIER 15 13 36.5 23 30.5 20   HAMPSHIRE 29 2 36.5 43 3 47   HARDY 49 30 36.5 32 8 48.5   HARDY 49 30 36.5 32.5 24 9.5   JACKSON 41 10 43 33 12 38 4 46   KANAWHA 14 49 9 31 42 27.5 1   LINCOLN 4 32 36.5 34.1 13 30.5 1   LINCOLN 4 32 36.5 147.5 26.5 2 2   LINCOLN 4 32 36.5 147.5 34.4 44   MARION 28 31 36.5 18.	CLAY	5	25	36.5	35	28	55	
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GREENBRIER 15 13 36.5 23 30.5 20   HAMPSHIRE 29 2 36.5 43 3 47   HAMPCOCK 13 15 36.5 32 8 48.5   HARDY 49 30 36.5 27 6 27.5   HARRISON 11 17 36.5 39.5 24 9.5   JACKSON 45 54 11 10 43 33   JEFFERSON 39 3 12 38 4 46   KANAWHA 14 49 9 31 42 27.5   UNCOLN 4 32 36.5 34.1 13 30.5 7.5   MARSHALL 16 10 14 18.5 34 44 44   MARSHALL 16 13 13 21 7.5   MARSON 32 50 3 14 50.5 21   MARS	GILMER	50	23	36.5	17	17.5	36.5	
HAMPSHIRE 29 2 36.5 43 3 47   HANCOCK 13 15 36.5 32 8 48.5   HARDY 49 30 36.5 27 6 27.5   HARRISON 11 17 36.5 39.5 24 9.5   JACKSON 45 54 11 10 43 33   JEFFERSON 39 3 12 38 4 46   KANAWHA 14 49 9 31 42 27.5   LIWOLN 4 32 36.5 34 13 30.5   LINCOLN 4 32 36.5 14.5 49 3   MARION 28 31 36.5 18.5 34 44   MARSHALL 16 10 14 18.5 30.5 7.5   MARION 32 50 3 14 50.5 21.5 MARION 21 7.	GRANT	40	48	36.5	41	14	23.5	
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HARRISON 11 17 36.5 39.5 24 9.5   JACKSON 45 54 11 10 43 33   JEFFERSON 39 3 12 38 4 46   KANAWHA 14 49 9 31 42 27.5   LEWIS 12 18 36.5 344 13 30.5   LINCOUN 4 32 36.5 47.5 26.5 2   LOGAN 2 44 5 44.5 49 3   MARION 28 31 36.5 18.5 34 44   MARSHALL 16 10 14 18.5 30.5 7.5   MASON 32 50 3 14 50.5 21.5 16   MARION 32 250 13 13 21 7.5 18.5   MARCER 25 16 13 13 21 7.5 14	HANCOCK		15	36.5		8	48.5	
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KANAWHA 14 49 9 31 42 27.5   LEWIS 12 18 36.5 34 13 30.5   LINCOLN 4 32 36.5 47.5 26.5 2   LOGAN 2 44 5 44.5 49 3   MARION 28 31 36.5 18.5 34 44   MARION 22 50 3 14 50.5 25.5   MASON 32 50 3 14 50.5 25.5   MCDOWELL 8 12 36.5 23 22 18.5   MINERAL 33 22 36.5 46 5 21.5   MINRGO 21 45 36.5 12 12 42.5   MONOGALIA 55 11 36.5 52 23 16.5   MORGAN 17 1 36.5 52 23 16.5   OHIO 36 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>						-		
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	WYOMING		27	36.5	55	45.5		

\*Each county is ranked from 1 to 55, where a rank of 1 is assigned to the county with the highest (worst) rate or percentage and a 55 to the county with the lowest (best) rate or percentage. Counties with a ".5" in the rank had the same rank as another county and the average rank was returned.

Percent of Boone County residents with a controlled substance prescription

33%

Percent of Boone County residents with an opioid prescription

22%

Percent of Boone County residents with a benzodiazepine prescription

11%

Source: West Virginia Controlled Substance Monitoring Program

For more information regarding this county profile or the West Virginia Controlled Substance Monitoring Program (CSMP), please see contact information below.

#### **Contact Information:**

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https://dhhr.wv.gov/vip/county-reports/Pages/default.aspx

