

## EMERGENCY DEPARTMENT VISITS FOR OVERDOSE BY OPIOID, UNSPECIFIED SUBSTANCE AND HEROIN AMONG VIRGINIA RESIDENTS

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**September 2016**

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## Background

The Virginia Department of Health (VDH) receives data on visits to 82 acute care hospital emergency departments (EDs) and 13 free-standing EDs in Virginia for purposes of public health surveillance. The purpose of this report is to characterize ED visit trends for acute unintentional overdose by opioids and heroin among Virginia residents.

Chief complaints and discharge diagnoses of ED visits are analyzed by VDH to identify and monitor issues of public health concern across Virginia. The chief complaint is a free-text field that captures the patient's primary reason for seeking medical care as interpreted by the ED registration staff. The discharge diagnosis is a coded field that uses standardized values outlined by the International Classification of Diseases (ICD) 9<sup>th</sup> and 10<sup>th</sup> Revision code sets.

## Methodology

ED visits that are identified as **unintentional overdose by opioid or unspecified substance** include those with medical and non-medical use of a prescription opioid or where the substance is not specified, given evidence that the majority of fatal overdoses are opioid-related.<sup>1</sup> These visits must meet the following inclusion and exclusion criteria:

- Inclusion terms from Chief Complaint or Discharge Diagnosis: *overdose, OD, sobredosis, opioid, opiate, opium, narcotic, Narcan, naloxone, E850.1, E850.2, 965.00, 965.02, 965.09, 977.9, T40.0X1, T40.0X4, T40.2X1, T40.2X4, T40.3X1, T40.3X4, T40.4X1, T40.4X4, T40.601, T40.604, T40.691, T40.694, T50.901, T50.904*
- Exclusions terms from Chief Complaint or Discharge Diagnosis: *suicide, alcohol overdose alone, withdrawal, detoxification, rehab, addiction, dependency, mental health or psychological evaluation, allergies, constipation, chronic pain, refill requests, and any specified non-opioid drug or medication*

ED visits that are identified as **unintentional overdose by heroin** must meet the following inclusion and exclusion criteria:

- Inclusion terms from Chief Complaint or Discharge Diagnosis: *heroin, herion, 965.01, E850.0, T40.1X1A, T40.1X4A*
- Exclusions terms from Chief Complaint or Discharge Diagnosis: *suicide, withdrawal, detoxification, rehab, and addiction*

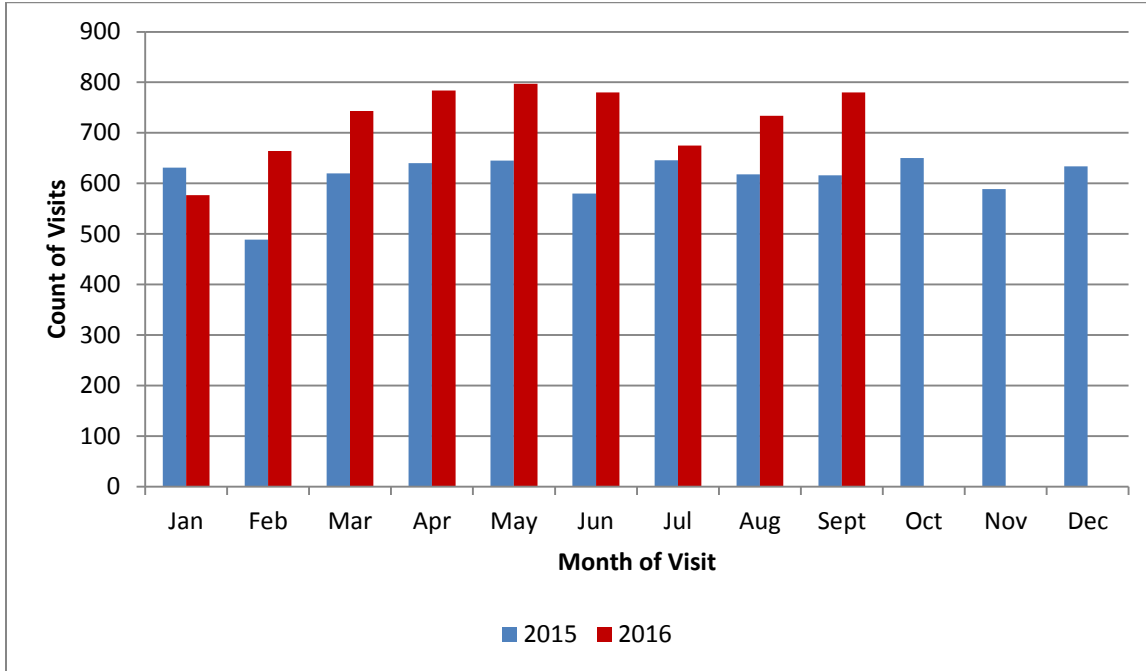
These criteria were revised in September 2016 in order to improve specificity in the identification of ED visits for unintentional drug overdose. Readers are strongly encouraged to review [syndromic surveillance data limitations](#) when interpreting this report.

ED visits for unintentional overdose by opioid or unspecified substance and heroin are presented by count or rate per 100,000 population. Rates are calculated using U.S. Census Bureau 2015 population estimates. To protect confidentiality and maintain accurate rate calculations, ED visit counts of 1 to 4 and rates with numerators of 1 to 4 are suppressed in this report. Counts of 0 are included.

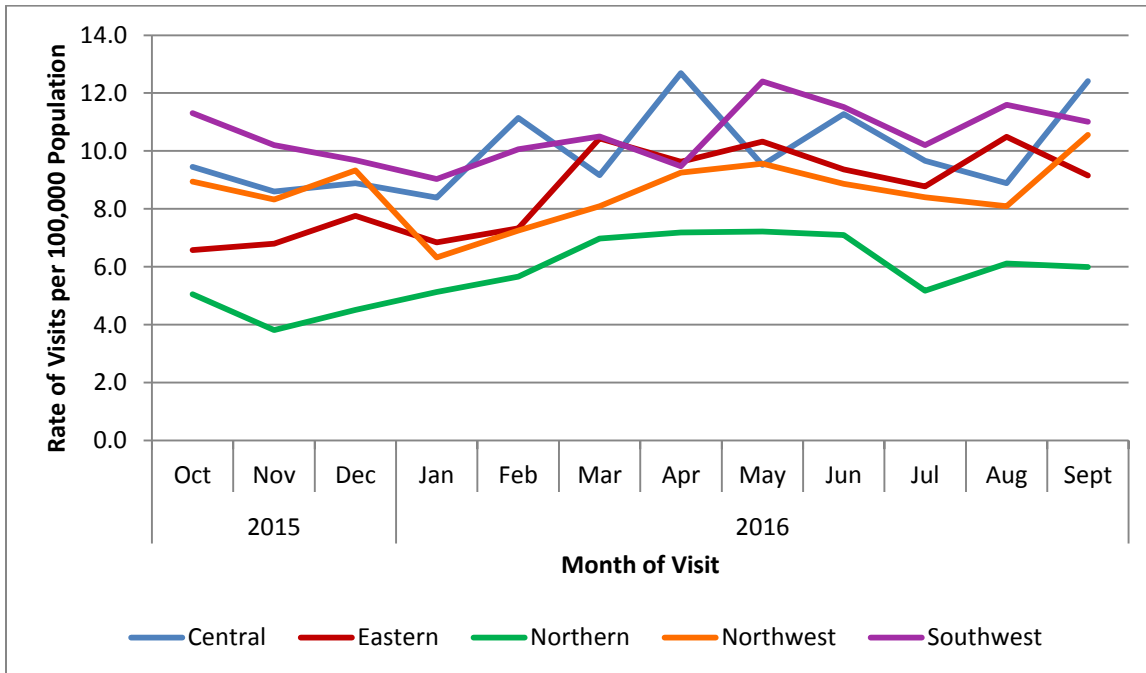
The geographic location is assigned based on the patient's residential zip code provided. A single zip code may span multiple city and county localities in Virginia. If a patient resides in such a zip code, the visit is assigned to the locality where the majority of the population resides. Places where the Virginia city and county populations have been combined to calculate a rate per 100,000 population due to zip codes spanning multiple localities can be found in [Appendix 1](#).

## Emergency Department Visits for Unintentional Overdose by Opioid or Unspecified Substance among Virginia Residents

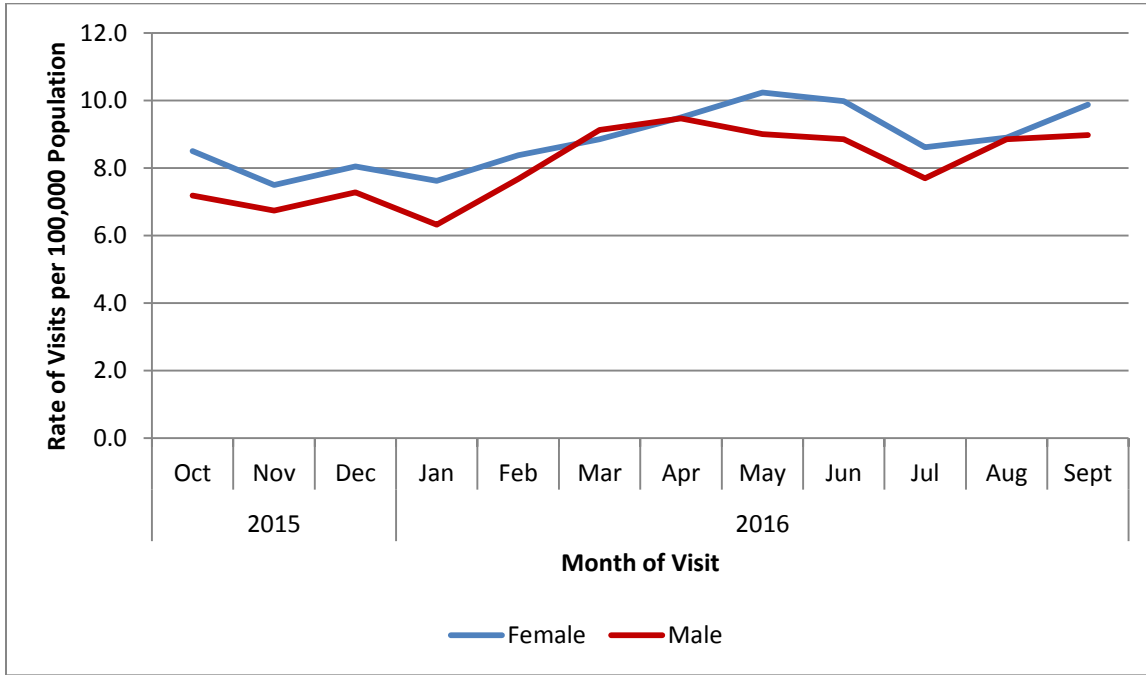
**Figure 1A.** Count of ED Visits for Unintentional Overdose by Opioid or Unspecified Substance among Virginia Residents by Month, 2015 and 2016



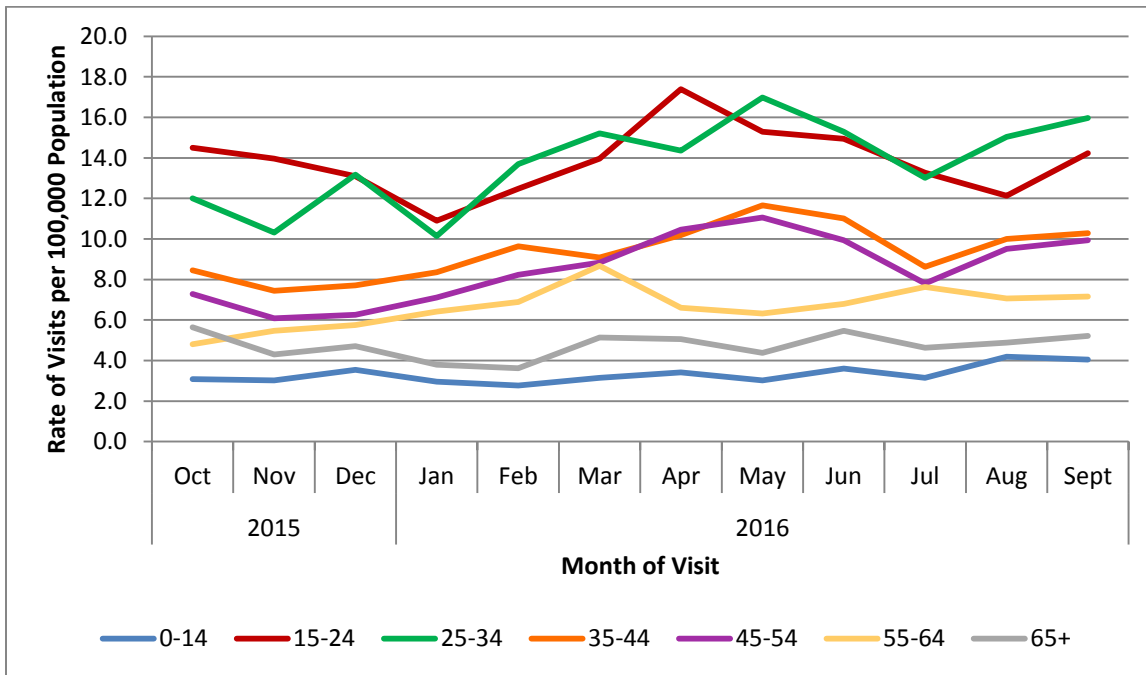
**Figure 1B.** Rate of ED Visits for Unintentional Overdose by Opioid or Unspecified Substance among Virginia Residents by Month and Health Region, Previous 12 Months



**Figure 1C.** Rate of ED Visits for Unintentional Overdose by Opioid or Unspecified Substance among Virginia Residents by Month and Sex, Previous 12 Months



**Figure 1D.** Rate of ED Visits for Unintentional Overdose by Opioid or Unspecified Substance among Virginia Residents by Month and Age Group (Years), Previous 12 Months



**Table 1A.** Count and Rate per 100,000 Population of ED Visits for Unintentional Overdose by Opioid or Unspecified Substance among Virginia Residents by Month and Health District, Previous 6 Months<sup>†\*</sup>

| Health District       | 2015 Population Estimate | Apr 2016   |            | May 2016   |            | Jun 2016   |            | Jul 2016   |            | Aug 2016   |            | Sept 2016  |            |
|-----------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |                          | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count      | Rate       |
| Alexandria            | 159,571                  | 6          | 3.8        | 12         | 7.5        | 9          | 5.6        | 8          | 5.0        | 13         | 8.1        | *          | *          |
| Alleghany             | 179,604                  | 11         | 6.1        | 17         | 9.5        | 20         | 11.1       | 21         | 11.7       | 16         | 8.9        | 21         | 11.7       |
| Arlington             | 234,678                  | 9          | 3.8        | 13         | 5.5        | 10         | 4.3        | 11         | 4.7        | 13         | 5.5        | 13         | 5.5        |
| Central Shenandoah    | 297,621                  | 13         | 4.4        | 10         | 3.4        | 19         | 6.4        | 19         | 6.4        | 9          | 3.0        | 13         | 4.4        |
| Central Virginia      | 259,900                  | 22         | 8.5        | 25         | 9.6        | 28         | 10.8       | 15         | 5.8        | 21         | 8.1        | 32         | 12.3       |
| Chesapeake            | 238,283                  | 23         | 9.7        | 21         | 8.8        | 30         | 12.6       | 25         | 10.5       | 25         | 10.5       | 29         | 12.2       |
| Chesterfield          | 379,107                  | 42         | 11.1       | 41         | 10.8       | 39         | 10.3       | 36         | 9.5        | 23         | 6.1        | 35         | 9.2        |
| Chickahominy          | 154,089                  | 19         | 12.3       | 13         | 8.4        | 19         | 12.3       | 5          | 3.2        | 15         | 9.7        | 13         | 8.4        |
| Crater                | 157,517                  | 15         | 9.5        | 10         | 6.3        | 10         | 6.3        | *          | *          | 14         | 8.9        | 16         | 10.2       |
| Cumberland Plateau    | 110,381                  | 14         | 12.7       | 8          | 7.2        | 14         | 12.7       | 5          | 4.5        | 16         | 14.5       | 11         | 10.0       |
| Eastern Shore         | 45,692                   | 6          | 13.1       | *          | *          | *          | *          | *          | *          | *          | *          | *          | *          |
| Fairfax               | 1,166,706                | 97         | 8.3        | 87         | 7.5        | 99         | 8.5        | 69         | 5.9        | 69         | 5.9        | 82         | 7.0        |
| Hampton               | 138,626                  | 10         | 7.2        | 15         | 10.8       | 13         | 9.4        | 15         | 10.8       | 20         | 14.4       | 10         | 7.2        |
| Henrico               | 320,717                  | 56         | 17.5       | 32         | 10.0       | 39         | 12.2       | 43         | 13.4       | 37         | 11.5       | 45         | 14.0       |
| Lenowisco             | 91,830                   | 11         | 12.0       | 14         | 15.2       | 21         | 22.9       | 15         | 16.3       | 16         | 17.4       | 10         | 10.9       |
| Lord Fairfax          | 229,120                  | 15         | 6.5        | 22         | 9.6        | 25         | 10.9       | 17         | 7.4        | 20         | 8.7        | 31         | 13.5       |
| Loudoun               | 374,451                  | 21         | 5.6        | 29         | 7.7        | 23         | 6.1        | 25         | 6.7        | 24         | 6.4        | 15         | 4.0        |
| Mount Rogers          | 191,012                  | 16         | 8.4        | 22         | 11.5       | 12         | 6.3        | 15         | 7.9        | 17         | 8.9        | 17         | 8.9        |
| New River             | 182,991                  | 12         | 6.6        | 16         | 8.7        | 9          | 4.9        | 22         | 12.0       | 10         | 5.5        | 10         | 5.5        |
| Norfolk               | 247,189                  | 44         | 17.8       | 24         | 9.7        | 25         | 10.1       | 21         | 8.5        | 24         | 9.7        | 18         | 7.3        |
| Peninsula             | 353,464                  | 25         | 7.1        | 48         | 13.6       | 37         | 10.5       | 29         | 8.2        | 46         | 13.0       | 41         | 11.6       |
| Piedmont              | 104,667                  | 6          | 5.7        | 10         | 9.6        | 8          | 7.6        | 11         | 10.5       | 7          | 6.7        | 12         | 11.5       |
| Pittsylvania-Danville | 105,799                  | 8          | 7.6        | 20         | 18.9       | 11         | 10.4       | *          | *          | 15         | 14.2       | 14         | 13.2       |
| Portsmouth            | 96,874                   | 13         | 13.4       | 21         | 21.7       | 16         | 16.5       | 16         | 16.5       | 28         | 28.9       | 12         | 12.4       |
| Prince William        | 500,740                  | 42         | 8.4        | 35         | 7.0        | 32         | 6.4        | 13         | 2.6        | 30         | 6.0        | 34         | 6.8        |
| Rappahannock          | 350,535                  | 30         | 8.6        | 39         | 11.1       | 26         | 7.4        | 31         | 8.8        | 34         | 9.7        | 46         | 13.1       |
| Rappahannock-Rapidan  | 171,228                  | 35         | 20.4       | 28         | 16.4       | 21         | 12.3       | 18         | 10.5       | 20         | 11.7       | 23         | 13.4       |
| Richmond City         | 217,938                  | 38         | 17.4       | 28         | 12.8       | 42         | 19.3       | 30         | 13.8       | 19         | 8.7        | 44         | 20.2       |
| Roanoke               | 99,681                   | 18         | 18.1       | 17         | 17.1       | 23         | 23.1       | 20         | 20.1       | 23         | 23.1       | 21         | 21.1       |
| Southside             | 84,304                   | *          | *          | *          | *          | *          | *          | 8          | 9.5        | 11         | 13.0       | 11         | 13.0       |
| Thomas Jefferson      | 248,500                  | 27         | 10.9       | 25         | 10.1       | 24         | 9.7        | 24         | 9.7        | 21         | 8.5        | 24         | 9.7        |
| Three Rivers          | 141,609                  | 16         | 11.3       | 26         | 18.4       | 15         | 10.6       | 14         | 9.9        | 13         | 9.2        | 12         | 8.5        |
| Virginia Beach        | 453,500                  | 29         | 6.4        | 24         | 5.3        | 29         | 6.4        | 28         | 6.2        | 30         | 6.6        | 29         | 6.4        |
| West Piedmont         | 141,119                  | 17         | 12.0       | 30         | 21.3       | 19         | 13.5       | 22         | 15.6       | 24         | 17.0       | 14         | 9.9        |
| Western Tidewater     | 153,950                  | 14         | 9.1        | 11         | 7.1        | 6          | 3.9        | 14         | 9.1        | 7          | 4.5        | 16         | 10.4       |
| <b>VIRGINIA TOTAL</b> | <b>8,382,993</b>         | <b>784</b> | <b>9.4</b> | <b>797</b> | <b>9.5</b> | <b>780</b> | <b>9.3</b> | <b>675</b> | <b>8.1</b> | <b>733</b> | <b>8.7</b> | <b>780</b> | <b>9.3</b> |

† Rate per 100,000 population based on 2015 U.S. Census estimates available at [www.census.gov/popest/](http://www.census.gov/popest/)

\* Visit counts of 1 to 4 and rates with numerators of 1 to 4 are suppressed to maintain confidentiality and accurate rate calculations.

**Table 1B.** Count and Rate per 100,000 Population of ED Visits for Unintentional Overdose by Opioid or Unspecified Substance among Virginia Residents by Month and City/County Locality, Previous 6 Months<sup>††\*</sup>

| Locality                         | 2015 Population Estimate | Apr 2016 |      | May 2016 |      | Jun 2016 |      | Jul 2016 |      | Aug 2016 |      | Sept 2016 |      |
|----------------------------------|--------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|-----------|------|
|                                  |                          | Count    | Rate | Count    | Rate | Count    | Rate | Count    | Rate | Count    | Rate | Count     | Rate |
| Accomack County                  | 32,973                   | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Albemarle County <sup>‡</sup>    | 152,300                  | 14       | 9.2  | 14       | 9.2  | 13       | 8.5  | 17       | 11.2 | 9        | 5.9  | 17        | 11.2 |
| Alleghany County <sup>‡</sup>    | 21,335                   | 0        | 0    | *        | *    | *        | *    | *        | *    | 5        | 23.4 | *         | *    |
| Amelia County                    | 12,903                   | 0        | 0    | 0        | 0    | *        | *    | 0        | 0    | 0        | 0    | *         | *    |
| Amherst County                   | 31,914                   | *        | *    | 5        | 15.7 | *        | *    | *        | *    | *        | *    | *         | *    |
| Appomattox County                | 15,414                   | *        | *    | 0        | 0    | *        | *    | 0        | 0    | *        | *    | *         | *    |
| Arlington County                 | 229,164                  | 9        | 3.9  | 13       | 5.7  | 10       | 4.4  | 11       | 4.8  | 13       | 5.7  | 13        | 5.7  |
| Augusta County <sup>‡</sup>      | 120,221                  | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Bath County                      | 4,470                    | 0        | 0    | 0        | 0    | 0        | 0    | 0        | 0    | 0        | 0    | 0         | 0    |
| Bedford County                   | 77,724                   | 5        | 6.4  | 9        | 11.6 | 10       | 12.9 | *        | *    | 7        | 9.0  | 7         | 9.0  |
| Bland County                     | 6,561                    | 0        | 0    | 0        | 0    | 0        | 0    | 0        | 0    | 0        | 0    | 0         | 0    |
| Botetourt County                 | 33,347                   | *        | *    | *        | *    | *        | *    | 5        | 15.0 | *        | *    | *         | *    |
| Brunswick County                 | 16,698                   | *        | *    | 0        | 0    | 0        | 0    | *        | *    | *        | *    | *         | *    |
| Buchanan County                  | 22,776                   | *        | *    | *        | *    | *        | *    | 0        | 0    | 0        | 0    | *         | *    |
| Buckingham County                | 17,032                   | *        | *    | 0        | 0    | *        | *    | *        | *    | 0        | 0    | *         | *    |
| Campbell County                  | 55,086                   | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | 5         | 9.1  |
| Caroline County                  | 29,984                   | 5        | 16.7 | *        | *    | *        | *    | *        | *    | 5        | 16.7 | 8         | 26.7 |
| Carroll County                   | 29,724                   | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Charles City County              | 7,040                    | *        | *    | *        | *    | *        | *    | 0        | 0    | *        | *    | 0         | 0    |
| Charlotte County                 | 12,201                   | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Chesterfield County <sup>‡</sup> | 353,507                  | 38       | 10.7 | 37       | 10.5 | 36       | 10.2 | 30       | 8.5  | 21       | 5.9  | 32        | 9.1  |
| Clarke County                    | 14,363                   | 0        | 0    | *        | *    | 0        | 0    | *        | *    | 0        | 0    | 0         | 0    |
| Craig County                     | 5,211                    | 0        | 0    | *        | *    | *        | *    | 0        | 0    | 0        | 0    | *         | *    |
| Culpeper County                  | 49,432                   | 11       | 22.3 | 9        | 18.2 | 13       | 26.3 | *        | *    | 8        | 16.2 | 6         | 12.1 |
| Cumberland County                | 9,719                    | *        | *    | 0        | 0    | *        | *    | 0        | 0    | *        | *    | *         | *    |
| Dickenson County                 | 15,115                   | *        | *    | *        | *    | *        | *    | *        | *    | 5        | 33.1 | *         | *    |
| Dinwiddie County                 | 27,852                   | *        | *    | 0        | 0    | *        | *    | 0        | 0    | 0        | 0    | 0         | 0    |
| Essex County                     | 11,130                   | *        | *    | 0        | 0    | *        | *    | *        | *    | *        | *    | *         | *    |
| Fairfax County <sup>‡</sup>      | 1,180,139                | 97       | 8.2  | 87       | 7.4  | 99       | 8.4  | 69       | 5.8  | 69       | 5.8  | 82        | 6.9  |
| Fauquier County                  | 68,782                   | 12       | 17.4 | 9        | 13.1 | *        | *    | 6        | 8.7  | 6        | 8.7  | 9         | 13.1 |
| Floyd County                     | 15,651                   | *        | *    | 0        | 0    | 0        | 0    | *        | *    | *        | *    | *         | *    |
| Fluvanna County                  | 26,235                   | 0        | 0    | *        | *    | *        | *    | *        | *    | *        | *    | 0         | 0    |
| Franklin County                  | 56,264                   | 8        | 14.2 | 10       | 17.8 | 6        | 10.7 | 7        | 12.4 | 5        | 8.9  | 7         | 12.4 |
| Frederick County <sup>‡</sup>    | 110,483                  | 7        | 6.3  | 14       | 12.7 | 11       | 10.0 | *        | *    | 11       | 10.0 | 17        | 15.4 |
| Giles County                     | 16,708                   | 0        | 0    | *        | *    | *        | *    | *        | *    | *        | *    | 0         | 0    |
| Gloucester County                | 37,143                   | *        | *    | 12       | 32.3 | *        | *    | *        | *    | *        | *    | *         | *    |
| Goochland County                 | 22,253                   | *        | *    | *        | *    | 0        | 0    | 0        | 0    | *        | *    | 0         | 0    |

| Locality                           | 2015 Population Estimate | Apr 2016 |      | May 2016 |      | Jun 2016 |      | Jul 2016 |      | Aug 2016 |      | Sept 2016 |      |
|------------------------------------|--------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|-----------|------|
|                                    |                          | Count    | Rate | Count    | Rate | Count    | Rate | Count    | Rate | Count    | Rate | Count     | Rate |
| Grayson County <sup>‡</sup>        | 22,926                   | 5        | 21.8 | *        | *    | 5        | 21.8 | *        | *    | 6        | 26.2 | *         | *    |
| Greene County                      | 19,162                   | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Greensville County <sup>‡</sup>    | 17,381                   | *        | *    | *        | *    | *        | *    | 0        | 0    | *        | *    | *         | *    |
| Halifax County                     | 35,125                   | *        | *    | 0        | 0    | 0        | 0    | *        | *    | 5        | 14.2 | *         | *    |
| Hanover County                     | 103,227                  | 11       | 10.7 | 5        | 4.8  | 17       | 16.5 | 5        | 4.8  | 9        | 8.7  | 11        | 10.7 |
| Henrico County                     | 325,155                  | 56       | 17.2 | 32       | 9.8  | 39       | 12.0 | 43       | 13.2 | 37       | 11.4 | 45        | 13.8 |
| Henry County <sup>‡</sup>          | 65,526                   | 8        | 12.2 | 19       | 29.0 | 13       | 19.8 | 14       | 21.4 | 18       | 27.5 | 7         | 10.7 |
| Highland County                    | 2,214                    | 0        | 0    | 0        | 0    | 0        | 0    | 0        | 0    | 0        | 0    | 0         | 0    |
| Isle of Wight County               | 36,314                   | 5        | 13.8 | *        | *    | 0        | 0    | *        | *    | *        | *    | *         | *    |
| James City County                  | 73,147                   | 7        | 9.6  | 7        | 9.6  | 7        | 9.6  | *        | *    | 5        | 6.8  | 10        | 13.7 |
| King and Queen County              | 7,158                    | 0        | 0    | *        | *    | 0        | 0    | *        | *    | *        | *    | 0         | 0    |
| King George County                 | 25,515                   | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| King William County                | 16,269                   | *        | *    | *        | *    | 0        | 0    | *        | *    | *        | *    | *         | *    |
| Lancaster County                   | 10,965                   | *        | *    | *        | *    | 5        | 45.6 | *        | *    | 0        | 0    | *         | *    |
| Lee County                         | 24,742                   | 0        | 0    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Loudoun County                     | 375,629                  | 21       | 5.6  | 29       | 7.7  | 23       | 6.1  | 25       | 6.7  | 24       | 6.4  | 15        | 4.0  |
| Louisa County                      | 34,602                   | 6        | 17.3 | 7        | 20.2 | 6        | 17.3 | *        | *    | 6        | 17.3 | 6         | 17.3 |
| Lunenburg County                   | 12,299                   | 0        | 0    | *        | *    | *        | *    | 0        | 0    | *        | *    | *         | *    |
| Madison County                     | 13,134                   | *        | *    | *        | *    | 0        | 0    | 0        | 0    | 0        | 0    | *         | *    |
| Mathews County                     | 8,862                    | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Mecklenburg County                 | 31,081                   | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | 5         | 16.1 |
| Middlesex County                   | 10,606                   | *        | *    | *        | *    | 0        | 0    | 0        | 0    | *        | *    | 0         | 0    |
| Montgomery County <sup>‡</sup>     | 115,056                  | *        | *    | 6        | 5.2  | 6        | 5.2  | 10       | 8.7  | 5        | 4.3  | 5         | 4.3  |
| Nelson County                      | 14,785                   | *        | *    | 0        | 0    | *        | *    | *        | *    | *        | *    | 0         | 0    |
| New Kent County                    | 20,392                   | *        | *    | 5        | 24.5 | *        | *    | 0        | 0    | *        | *    | *         | *    |
| Northampton County                 | 12,155                   | *        | *    | 0        | 0    | *        | *    | 0        | 0    | *        | *    | *         | *    |
| Northumberland County              | 12,232                   | *        | *    | 0        | 0    | *        | *    | 0        | 0    | 0        | 0    | *         | *    |
| Nottoway County                    | 15,673                   | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Orange County                      | 35,385                   | 9        | 25.4 | 8        | 22.6 | *        | *    | 10       | 28.3 | 6        | 17.0 | *         | *    |
| Page County                        | 23,726                   | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Patrick County                     | 18,045                   | *        | *    | *        | *    | 0        | 0    | *        | *    | *        | *    | 0         | 0    |
| Pittsylvania County <sup>‡</sup>   | 104,276                  | 8        | 7.7  | 20       | 19.2 | 11       | 10.5 | *        | *    | 15       | 14.4 | 14        | 13.4 |
| Powhatan County                    | 28,031                   | *        | *    | *        | *    | *        | *    | 6        | 21.4 | *        | *    | *         | *    |
| Prince Edward County               | 22,952                   | 0        | 0    | *        | *    | *        | *    | 5        | 21.8 | *        | *    | *         | *    |
| Prince George County               | 92,717                   | 12       | 12.9 | *        | *    | 6        | 6.5  | *        | *    | 10       | 10.8 | 12        | 12.9 |
| Prince William County <sup>‡</sup> | 509,211                  | 42       | 8.2  | 35       | 6.9  | 32       | 6.3  | 13       | 2.6  | 30       | 5.9  | 34        | 6.7  |
| Pulaski County                     | 34,332                   | 7        | 20.4 | 6        | 17.5 | *        | *    | *        | *    | *        | *    | *         | *    |
| Rappahannock County                | 7,378                    | *        | *    | *        | *    | 0        | 0    | 0        | 0    | 0        | 0    | 0         | 0    |
| Richmond County                    | 8,908                    | *        | *    | *        | *    | *        | *    | 0        | 0    | *        | *    | 0         | 0    |
| Roanoke County <sup>‡</sup>        | 219,738                  | 28       | 12.7 | 28       | 12.7 | 34       | 15.5 | 33       | 15.0 | 33       | 15.0 | 34        | 15.5 |

| Locality                           | 2015<br>Population<br>Estimate | Apr 2016 |      | May 2016 |      | Jun 2016 |      | Jul 2016 |      | Aug 2016 |      | Sept 2016 |      |
|------------------------------------|--------------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|-----------|------|
|                                    |                                | Count    | Rate | Count    | Rate | Count    | Rate | Count    | Rate | Count    | Rate | Count     | Rate |
| Rockbridge County <sup>†</sup>     | 36,234                         | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Rockingham County <sup>†</sup>     | 131,131                        | 9        | 6.9  | 7        | 5.3  | 14       | 10.7 | 12       | 9.2  | 5        | 3.8  | 8         | 6.1  |
| Russell County                     | 27,891                         | 5        | 17.9 | *        | *    | 6        | 21.5 | *        | *    | 5        | 17.9 | *         | *    |
| Scott County                       | 22,126                         | *        | *    | 0        | 0    | 0        | 0    | 0        | 0    | 0        | 0    | 0         | 0    |
| Shenandoah County                  | 43,190                         | 5        | 11.6 | *        | *    | 5        | 11.6 | *        | *    | *        | *    | 8         | 18.5 |
| Smyth County                       | 31,470                         | 5        | 15.9 | 9        | 28.6 | *        | *    | 7        | 22.2 | 7        | 22.2 | 8         | 25.4 |
| Southampton County <sup>†</sup>    | 26,599                         | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Spotsylvania County                | 130,475                        | 14       | 10.7 | 17       | 13.0 | 5        | 3.8  | 12       | 9.2  | 12       | 9.2  | 16        | 12.3 |
| Stafford County                    | 142,003                        | 7        | 4.9  | 12       | 8.5  | 11       | 7.7  | 11       | 7.7  | 11       | 7.7  | 15        | 10.6 |
| Surry County                       | 6,709                          | 0        | 0    | *        | *    | 0        | 0    | 0        | 0    | *        | *    | *         | *    |
| Sussex County                      | 11,715                         | 0        | 0    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Tazewell County                    | 42,899                         | *        | *    | *        | *    | *        | *    | *        | *    | 6        | 14.0 | *         | *    |
| Warren County                      | 39,083                         | *        | *    | *        | *    | 8        | 20.5 | 6        | 15.4 | 5        | 12.8 | 5         | 12.8 |
| Washington County <sup>†</sup>     | 71,732                         | 5        | 7.0  | 6        | 8.4  | *        | *    | *        | *    | *        | *    | *         | *    |
| Westmoreland County                | 17,629                         | *        | *    | *        | *    | *        | *    | 0        | 0    | *        | *    | *         | *    |
| Wise County <sup>†</sup>           | 43,657                         | 10       | 22.9 | 11       | 25.2 | 19       | 43.5 | 14       | 32.1 | 14       | 32.1 | 7         | 16.0 |
| Wythe County                       | 29,119                         | 0        | 0    | *        | *    | *        | *    | 0        | 0    | 0        | 0    | 0         | 0    |
| York County                        | 67,837                         | *        | *    | *        | *    | 8        | 11.8 | 8        | 11.8 | 6        | 8.8  | 6         | 8.8  |
| Alexandria City                    | 153,511                        | 6        | 3.9  | 12       | 7.8  | 9        | 5.9  | 8        | 5.2  | 13       | 8.5  | *         | *    |
| Bristol City <sup>†</sup>          | 71,732                         | 5        | 7.0  | 6        | 8.4  | *        | *    | *        | *    | *        | *    | *         | *    |
| Buena Vista City <sup>†</sup>      | 36,234                         | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Charlottesville City <sup>†</sup>  | 152,300                        | 14       | 9.2  | 14       | 9.2  | 13       | 8.5  | 17       | 11.2 | 9        | 5.9  | 17        | 11.2 |
| Chesapeake City                    | 235,429                        | 23       | 9.8  | 21       | 8.9  | 30       | 12.7 | 25       | 10.6 | 25       | 10.6 | 29        | 12.3 |
| Colonial Heights City <sup>†</sup> | 353,507                        | 38       | 10.7 | 37       | 10.5 | 36       | 10.2 | 30       | 8.5  | 21       | 5.9  | 32        | 9.1  |
| Covington City <sup>†</sup>        | 21,335                         | 0        | 0    | *        | *    | *        | *    | *        | *    | 5        | 23.4 | *         | *    |
| Danville City <sup>†</sup>         | 104,276                        | 8        | 7.7  | 20       | 19.2 | 11       | 10.5 | *        | *    | 15       | 14.4 | 14        | 13.4 |
| Emporia City <sup>†</sup>          | 17,381                         | *        | *    | *        | *    | *        | *    | 0        | 0    | *        | *    | *         | *    |
| Fairfax City <sup>†</sup>          | 1,180,139                      | 97       | 8.2  | 87       | 7.4  | 99       | 8.4  | 69       | 5.8  | 69       | 5.8  | 82        | 6.9  |
| Falls Church City <sup>†</sup>     | 1,180,139                      | 97       | 8.2  | 87       | 7.4  | 99       | 8.4  | 69       | 5.8  | 69       | 5.8  | 82        | 6.9  |
| Franklin City <sup>†</sup>         | 26,599                         | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Fredericksburg City                | 28,118                         | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Galax City <sup>†</sup>            | 22,926                         | 5        | 21.8 | *        | *    | 5        | 21.8 | *        | *    | 6        | 26.2 | *         | *    |
| Hampton City                       | 136,454                        | 10       | 7.3  | 15       | 11.0 | 13       | 9.5  | 15       | 11.0 | 20       | 14.7 | 10        | 7.3  |
| Harrisonburg City <sup>†</sup>     | 131,131                        | 9        | 6.9  | 7        | 5.3  | 14       | 10.7 | 12       | 9.2  | 5        | 3.8  | 8         | 6.1  |
| Hopewell City <sup>†</sup>         | 92,717                         | 12       | 12.9 | *        | *    | 6        | 6.5  | *        | *    | 10       | 10.8 | 12        | 12.9 |
| Lexington City <sup>†</sup>        | 36,234                         | *        | *    | *        | *    | *        | *    | *        | *    | *        | *    | *         | *    |
| Lynchburg City                     | 79,812                         | 12       | 15.0 | 9        | 11.3 | 12       | 15.0 | 8        | 10.0 | 7        | 8.8  | 14        | 17.5 |
| Manassas City <sup>†</sup>         | 509,211                        | 42       | 8.2  | 35       | 6.9  | 32       | 6.3  | 13       | 2.6  | 30       | 5.9  | 34        | 6.7  |
| Manassas Park City <sup>†</sup>    | 509,211                        | 42       | 8.2  | 35       | 6.9  | 32       | 6.3  | 13       | 2.6  | 30       | 5.9  | 34        | 6.7  |
| Martinsville City <sup>†</sup>     | 65,526                         | 8        | 12.2 | 19       | 29.0 | 13       | 19.8 | 14       | 21.4 | 18       | 27.5 | 7         | 10.7 |



| Locality                     | 2015<br>Population<br>Estimate | Apr 2016   |            | May 2016   |            | Jun 2016   |            | Jul 2016   |            | Aug 2016   |            | Sept 2016  |            |
|------------------------------|--------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                              |                                | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count      | Rate       |
| Newport News City            | 182,385                        | 14         | 7.7        | 35         | 19.2       | 20         | 11.0       | 13         | 7.1        | 30         | 16.4       | 22         | 12.1       |
| Norfolk City                 | 246,393                        | 44         | 17.9       | 24         | 9.7        | 25         | 10.1       | 21         | 8.5        | 24         | 9.7        | 18         | 7.3        |
| Norton City <sup>‡</sup>     | 43,657                         | 10         | 22.9       | 11         | 25.2       | 19         | 43.5       | 14         | 32.1       | 14         | 32.1       | 7          | 16.0       |
| Petersburg City <sup>‡</sup> | 92,717                         | 12         | 12.9       | *          | *          | 6          | 6.5        | *          | *          | 10         | 10.8       | 12         | 12.9       |
| Poquoson City                | 12,059                         | 0          | 0          | *          | *          | *          | *          | *          | *          | 5          | 41.5       | *          | *          |
| Portsmouth City              | 96,201                         | 13         | 13.5       | 21         | 21.8       | 16         | 16.6       | 16         | 16.6       | 28         | 29.1       | 12         | 12.5       |
| Radford City <sup>‡</sup>    | 115,056                        | *          | *          | 6          | 5.2        | 6          | 5.2        | 10         | 8.7        | 5          | 4.3        | 5          | 4.3        |
| Richmond City                | 220,289                        | 38         | 17.3       | 28         | 12.7       | 42         | 19.1       | 30         | 13.6       | 19         | 8.6        | 44         | 20.0       |
| Roanoke City <sup>‡</sup>    | 219,738                        | 28         | 12.7       | 28         | 12.7       | 34         | 15.5       | 33         | 15.0       | 33         | 15.0       | 34         | 15.5       |
| Salem City <sup>‡</sup>      | 219,738                        | 28         | 12.7       | 28         | 12.7       | 34         | 15.5       | 33         | 15.0       | 33         | 15.0       | 34         | 15.5       |
| Staunton City <sup>‡</sup>   | 120,221                        | *          | *          | *          | *          | *          | *          | *          | *          | *          | *          | *          | *          |
| Suffolk City                 | 88,161                         | 7          | 7.9        | 5          | 5.7        | *          | *          | 10         | 11.3       | 5          | 5.7        | 10         | 11.3       |
| Virginia Beach City          | 452,745                        | 29         | 6.4        | 24         | 5.3        | 29         | 6.4        | 28         | 6.2        | 30         | 6.6        | 29         | 6.4        |
| Waynesboro City <sup>‡</sup> | 120,221                        | *          | *          | *          | *          | *          | *          | *          | *          | *          | *          | *          | *          |
| Williamsburg City            | 15,052                         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
| Winchester City <sup>‡</sup> | 110,483                        | 7          | 6.3        | 14         | 12.7       | 11         | 10.0       | *          | *          | 11         | 10.0       | 17         | 15.4       |
| <b>VIRGINIA TOTAL</b>        | <b>8,382,993</b>               | <b>784</b> | <b>9.4</b> | <b>797</b> | <b>9.5</b> | <b>780</b> | <b>9.3</b> | <b>675</b> | <b>8.1</b> | <b>733</b> | <b>8.7</b> | <b>780</b> | <b>9.3</b> |

† Rate per 100,000 population based on 2015 U.S. Census estimates available at [www.census.gov/popest/](http://www.census.gov/popest/)

‡ The rate per 100,000 population for each locality within a combined group is based on the aggregated total population of the combined group. Refer to [Appendix 1](#) for the list of localities that are combined.

\* Visit counts of 1 to 4 and rates with numerators of 1 to 4 are suppressed to maintain confidentiality and accurate rate calculations.

**Table 1C.** Count and Rate per 100,000 Population of ED Visits for Unintentional Overdose by Opioid or Unspecified Substance among Virginia Residents by Month and Virginia State Police Division, Previous 6 Months<sup>†§</sup>

| VSP Division          | 2015 Population Estimate | Apr 2016   |            | May 2016   |            | Jun 2016   |            | Jul 2016   |            | Aug 2016   |            | Sept 2016  |            |
|-----------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                       |                          | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count      | Rate       |
| Division 1            | 1,403,431                | 192        | 13.7       | 148        | 10.5       | 174        | 12.4       | 137        | 9.8        | 125        | 8.9        | 177        | 12.6       |
| Division 2            | 836,683                  | 82         | 9.8        | 89         | 10.6       | 80         | 9.6        | 74         | 8.8        | 71         | 8.5        | 97         | 11.6       |
| Division 3            | 655,338                  | 45         | 6.9        | 42         | 6.4        | 46         | 7.0        | 48         | 7.3        | 47         | 7.2        | 63         | 9.6        |
| Division 4            | 441,778                  | 48         | 10.9       | 54         | 12.2       | 50         | 11.3       | 43         | 9.7        | 53         | 12.0       | 41         | 9.3        |
| Division 5            | 1,823,018                | 175        | 9.6        | 187        | 10.3       | 165        | 9.1        | 159        | 8.7        | 196        | 10.8       | 168        | 9.2        |
| Division 6            | 775,091                  | 67         | 8.6        | 101        | 13.0       | 92         | 11.9       | 88         | 11.4       | 92         | 11.9       | 88         | 11.4       |
| Division 7            | 2,447,654                | 175        | 7.1        | 176        | 7.2        | 173        | 7.1        | 126        | 5.1        | 149        | 6.1        | 146        | 6.0        |
| <b>VIRGINIA TOTAL</b> | <b>8,382,993</b>         | <b>784</b> | <b>9.4</b> | <b>797</b> | <b>9.5</b> | <b>780</b> | <b>9.3</b> | <b>675</b> | <b>8.1</b> | <b>733</b> | <b>8.7</b> | <b>780</b> | <b>9.3</b> |

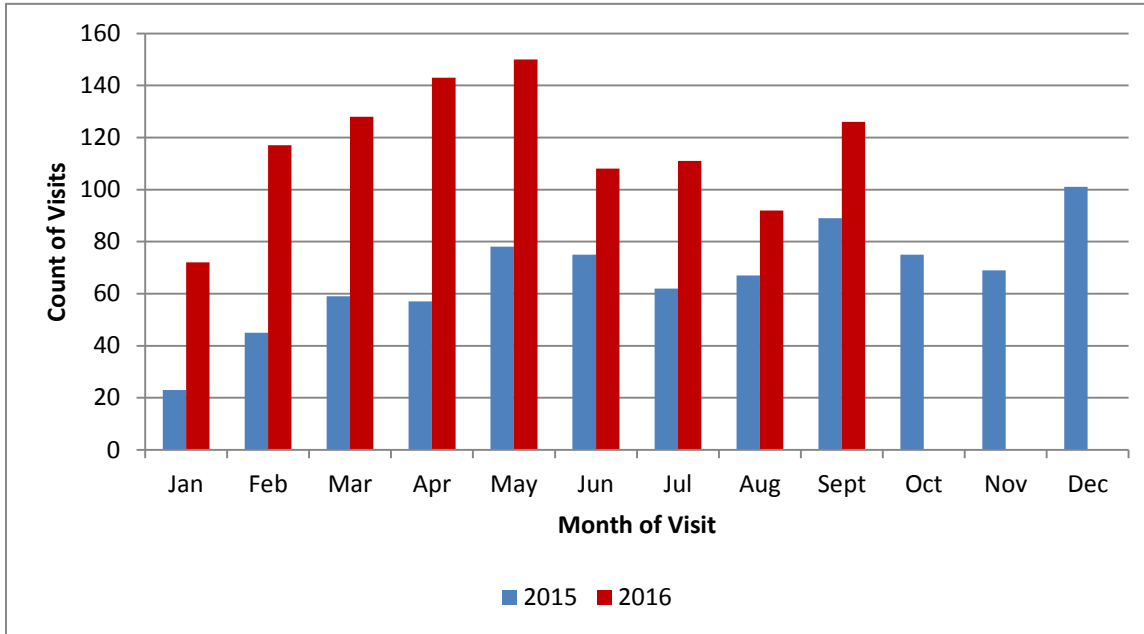
† Rate per 100,000 population based on 2015 U.S. Census estimates available at [www.census.gov/popest/](http://www.census.gov/popest/)

\* Visit counts of 1 to 4 and rates with numerators of 1 to 4 are suppressed to maintain confidentiality and accurate rate calculations.

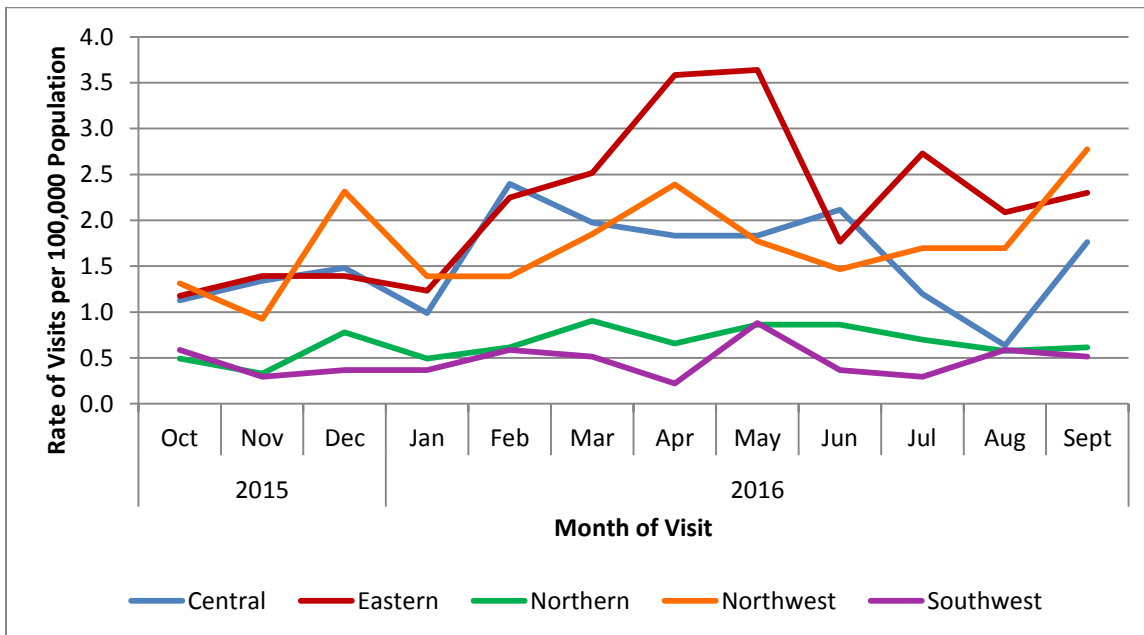
§ Virginia State Police Divisions available at [http://www.vsp.state.va.us/Office\\_Locations.shtm](http://www.vsp.state.va.us/Office_Locations.shtm)

## Emergency Department Visits for Unintentional Overdose by Heroin among Virginia Residents

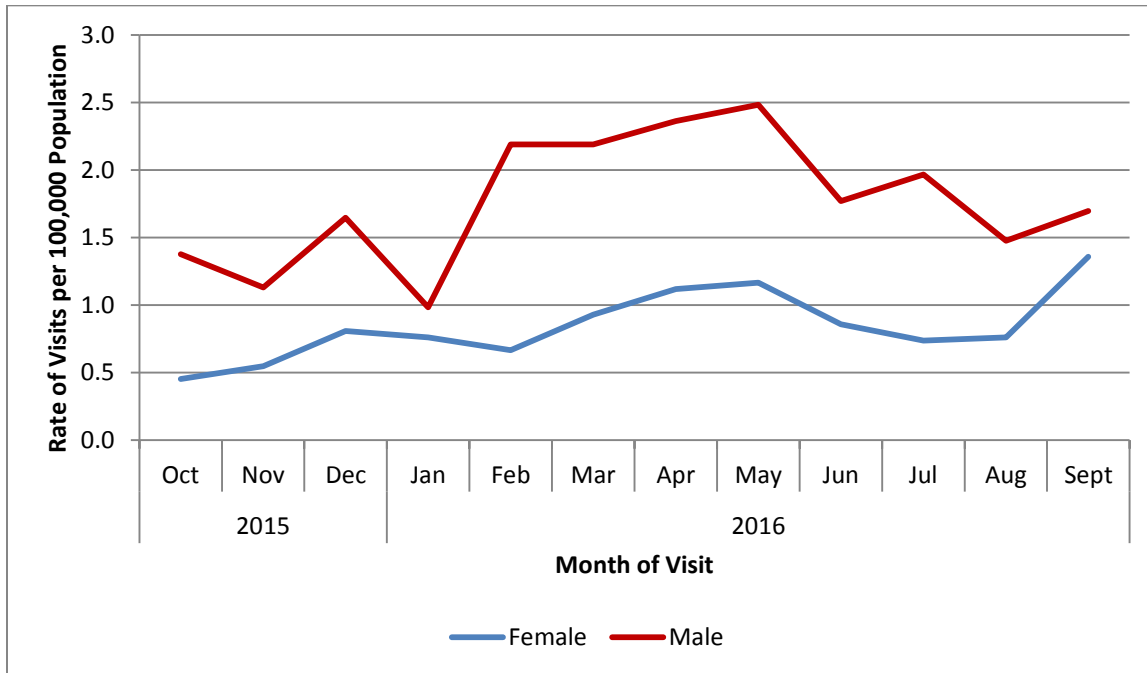
**Figure 2A.** Count of ED Visits for Unintentional Overdose by Heroin among Virginia Residents by Month, 2015 and 2016



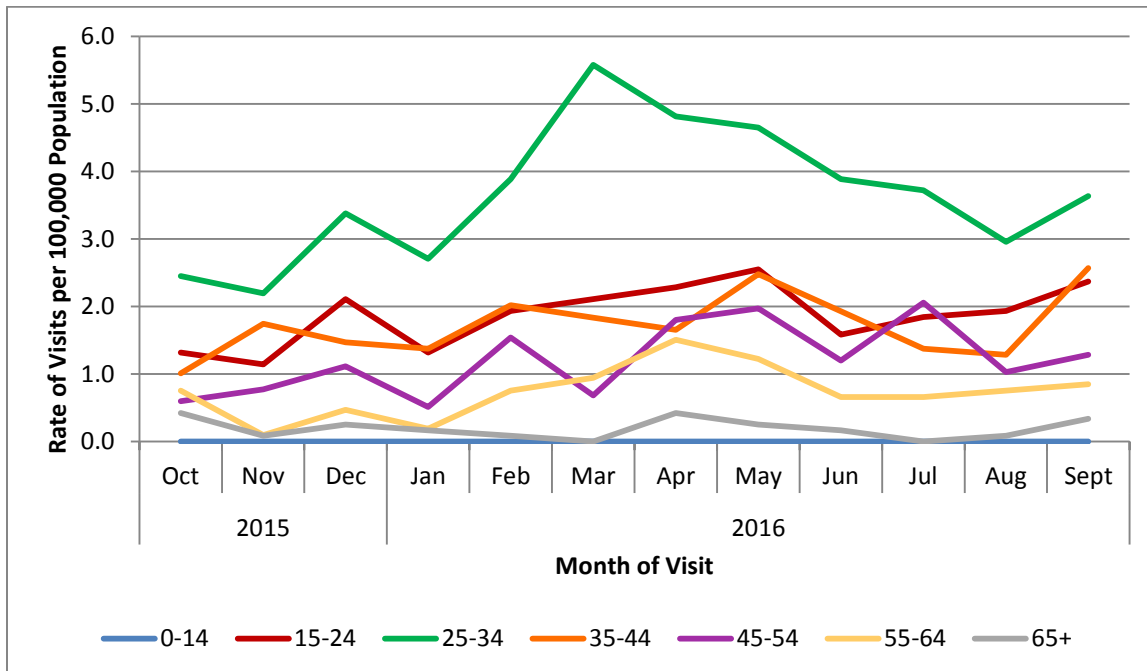
**Figure 2B.** Rate of ED Visits for Unintentional Overdose by Heroin among Virginia Residents by Month and Health Region, Previous 12 Months



**Figure 2C.** Rate of ED Visits for Unintentional Overdose by Heroin among Virginia Residents by Month and Sex, Previous 12 Months



**Figure 2D.** Rate of ED Visits for Unintentional Overdose by Heroin among Virginia Residents by Month and Age Group (Years), Previous 12 Months



**Table 2A.** Count and Rate per 100,000 Population of ED Visits for Unintentional Overdose by Heroin among Virginia Residents by Month and Health District, Previous 6 Months<sup>†\*</sup>

| Health District       | 2015 Population Estimate | Apr 2016   |            | May 2016   |            | Jun 2016   |            | Jul 2016   |            | Aug 2016  |            | Sept 2016  |            |
|-----------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|
|                       |                          | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count     | Rate       | Count      | Rate       |
| Alexandria            | 159,571                  | *          | *          | 0          | 0          | *          | *          | *          | *          | *         | *          | 0          | 0          |
| Alleghany             | 179,604                  | *          | *          | 5          | 2.8        | *          | *          | 0          | 0          | 5         | 2.8        | *          | *          |
| Arlington             | 234,678                  | *          | *          | 0          | 0          | *          | *          | 0          | 0          | 0         | 0          | *          | *          |
| Central Shenandoah    | 297,621                  | *          | *          | 0          | 0          | 0          | 0          | *          | *          | *         | *          | *          | *          |
| Central Virginia      | 259,900                  | *          | *          | *          | *          | 0          | 0          | 0          | 0          | 0         | 0          | *          | *          |
| Chesapeake            | 238,283                  | 16         | 6.7        | 9          | 3.8        | 5          | 2.1        | 6          | 2.5        | 8         | 3.4        | 5          | 2.1        |
| Chesterfield          | 379,107                  | *          | *          | *          | *          | 9          | 2.4        | *          | *          | 0         | 0          | *          | *          |
| Chickahominy          | 154,089                  | *          | *          | *          | *          | *          | *          | *          | *          | 0         | 0          | 5          | 3.2        |
| Crater                | 157,517                  | 0          | 0          | *          | *          | 0          | 0          | *          | *          | *         | *          | 0          | 0          |
| Cumberland Plateau    | 110,381                  | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0          | 0          |
| Eastern Shore         | 45,692                   | *          | *          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0          | 0          |
| Fairfax               | 1,166,706                | 9          | 0.8        | 11         | 0.9        | 10         | 0.9        | 10         | 0.9        | 8         | 0.7        | 8          | 0.7        |
| Hampton               | 138,626                  | 5          | 3.6        | 9          | 6.5        | *          | *          | 6          | 4.3        | *         | *          | *          | *          |
| Henrico               | 320,717                  | 15         | 4.7        | 8          | 2.5        | *          | *          | 6          | 1.9        | *         | *          | 6          | 1.9        |
| Lenowisco             | 91,830                   | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0          | 0          |
| Lord Fairfax          | 229,120                  | *          | *          | 8          | 3.5        | *          | *          | 6          | 2.6        | 5         | 2.2        | 6          | 2.6        |
| Loudoun               | 374,451                  | *          | *          | *          | *          | 0          | 0          | *          | *          | 0         | 0          | *          | *          |
| Mount Rogers          | 191,012                  | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0          | 0          |
| New River             | 182,991                  | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0          | *          | *          |
| Norfolk               | 247,189                  | 20         | 8.1        | 16         | 6.5        | 7          | 2.8        | 7          | 2.8        | 12        | 4.9        | 12         | 4.9        |
| Peninsula             | 353,464                  | 6          | 1.7        | 7          | 2.0        | *          | *          | 7          | 2.0        | *         | *          | 7          | 2.0        |
| Piedmont              | 104,667                  | 0          | 0          | 0          | 0          | *          | *          | 0          | 0          | 0         | 0          | 0          | 0          |
| Pittsylvania-Danville | 105,799                  | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0          | 0          |
| Portsmouth            | 96,874                   | 5          | 5.2        | 10         | 10.3       | 7          | 7.2        | 7          | 7.2        | 6         | 6.2        | 6          | 6.2        |
| Prince William        | 500,740                  | *          | *          | 7          | 1.4        | 8          | 1.6        | *          | *          | 5         | 1.0        | *          | *          |
| Rappahannock          | 350,535                  | 7          | 2.0        | *          | *          | 5          | 1.4        | *          | *          | 11        | 3.1        | 10         | 2.9        |
| Rappahannock-Rapidan  | 171,228                  | 14         | 8.2        | 5          | 2.9        | 5          | 2.9        | 7          | 4.1        | *         | *          | 11         | 6.4        |
| Richmond City         | 217,938                  | 8          | 3.7        | 11         | 5.0        | 12         | 5.5        | 6          | 2.8        | *         | *          | 9          | 4.1        |
| Roanoke               | 99,681                   | 0          | 0          | 6          | 6.0        | *          | *          | *          | *          | *         | *          | *          | *          |
| Southside             | 84,304                   | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0          | *          | *          |
| Thomas Jefferson      | 248,500                  | 6          | 2.4        | 6          | 2.4        | 5          | 2.0        | *          | *          | *         | *          | 8          | 3.2        |
| Three Rivers          | 141,609                  | *          | *          | 0          | 0          | *          | *          | *          | *          | 0         | 0          | 0          | 0          |
| Virginia Beach        | 453,500                  | 10         | 2.2        | 14         | 3.1        | 6          | 1.3        | 9          | 2.0        | *         | *          | 9          | 2.0        |
| West Piedmont         | 141,119                  | *          | *          | 0          | 0          | 0          | 0          | *          | *          | *         | *          | 0          | 0          |
| Western Tidewater     | 153,950                  | *          | *          | *          | *          | *          | *          | 5          | 3.2        | 5         | 3.2        | *          | *          |
| <b>VIRGINIA TOTAL</b> | <b>8,382,993</b>         | <b>143</b> | <b>1.7</b> | <b>150</b> | <b>1.8</b> | <b>108</b> | <b>1.3</b> | <b>111</b> | <b>1.3</b> | <b>92</b> | <b>1.1</b> | <b>126</b> | <b>1.5</b> |

<sup>†</sup> Rate per 100,000 population based on 2015 U.S. Census estimates available at [www.census.gov/popest/](http://www.census.gov/popest/)

\* Visit counts of 1 to 4 and rates with numerators of 1 to 4 are suppressed to maintain confidentiality and accurate rate calculations.

**Table 2B.** Count and Rate per 100,000 Population of ED Visits for Unintentional Overdose by Heroin among Virginia Residents by Month and Virginia State Police Division, Previous 6 Months<sup>†\*§</sup>

| VSP Division          | 2015 Population Estimate | Apr 2016   |            | May 2016   |            | Jun 2016   |            | Jul 2016   |            | Aug 2016  |            | Sept 2016  |            |
|-----------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|
|                       |                          | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count      | Rate       | Count     | Rate       | Count      | Rate       |
| Division 1            | 1,403,431                | 32         | 2.3        | 29         | 2.1        | 30         | 2.1        | 20         | 1.4        | 11        | 0.8        | 25         | 1.8        |
| Division 2            | 836,683                  | 24         | 2.9        | 16         | 1.9        | 14         | 1.7        | 17         | 2.0        | 20        | 2.4        | 25         | 3.0        |
| Division 3            | 655,338                  | *          | *          | *          | *          | 5          | 0.8        | *          | *          | 0         | 0          | 10         | 1.5        |
| Division 4            | 441,778                  | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0          | 0          |
| Division 5            | 1,823,018                | 66         | 3.6        | 69         | 3.8        | 33         | 1.8        | 50         | 2.7        | 39        | 2.1        | 43         | 2.4        |
| Division 6            | 775,091                  | *          | *          | 11         | 1.4        | 5          | 0.6        | 5          | 0.6        | 8         | 1.0        | 8          | 1.0        |
| Division 7            | 2,447,654                | 16         | 0.7        | 21         | 0.9        | 21         | 0.9        | 17         | 0.7        | 14        | 0.6        | 15         | 0.6        |
| <b>VIRGINIA TOTAL</b> | <b>8,382,993</b>         | <b>143</b> | <b>1.7</b> | <b>150</b> | <b>1.8</b> | <b>108</b> | <b>1.3</b> | <b>111</b> | <b>1.3</b> | <b>92</b> | <b>1.1</b> | <b>126</b> | <b>1.5</b> |

† Rate per 100,000 population based on 2015 U.S. Census estimates available at [www.census.gov/popest/](http://www.census.gov/popest/)

\* Visit counts of 1 to 4 and rates with numerators of 1 to 4 are suppressed to maintain confidentiality and accurate rate calculations.

§ Virginia State Police Divisions available at [http://www.vsp.state.va.us/Office\\_Locations.shtm](http://www.vsp.state.va.us/Office_Locations.shtm)

## Appendix 1

Virginia Localities that were Combined for the Purposes of Calculating Rate per 100,000 Population

- Alleghany County and Covington City
- Albemarle County and Charlottesville City
- Augusta County, Staunton City, and Waynesboro City
- Chesterfield County and Colonial Heights City
- Frederick County and Winchester City
- Fairfax County, Fairfax City, and Falls Church City
- Grayson County and Galax City
- Greensville County and Emporia City
- Henry County and Martinsville City
- Montgomery County and Radford City
- Pittsylvania County and Danville City
- Prince George County, Hopewell City, and Petersburg City
- Prince William County, Manassas City, and Manassas Park City
- Roanoke County, Roanoke City, and Salem City
- Rockingham County and Harrisonburg City
- Rockbridge County, Buena Vista City, and Lexington City
- Southampton County and Franklin City
- Washington County and Bristol City
- Wise County and Norton City