

This report summarizes all unintentional illicit drug overdose deaths in British Columbia (accidental and undetermined) that occurred between January 1, 2007 and April 30, 2017, inclusive. It includes confirmed and suspected illicit overdose deaths. *Please note that data is subject to change as investigations are concluded.*

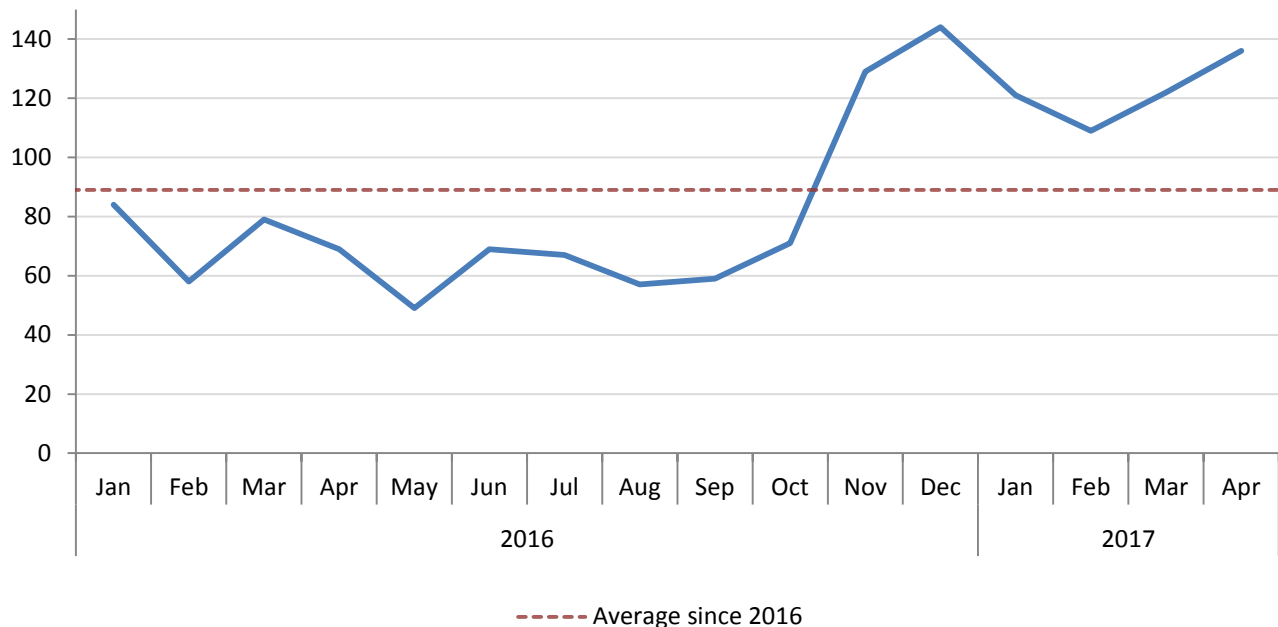
**Inclusion Criteria:** The illicit drug overdose category includes the following:

- Street drugs (Controlled and illegal drugs: heroin, cocaine, MDMA, methamphetamine, illicit fentanyl etc.)
- Medications not prescribed to the decedent but obtained/purchased on the street, from unknown means or where origin of drug not known
- Combinations of the above with prescribed medications

**Summary**

- There were 136 suspected drug overdose deaths in Apr 2017. This is a 97.1% increase over the number of death occurring in Apr 2016 (69).
- The number of illicit drug overdose deaths in Apr 2017 (136) equates to about 4.5 deaths per day for the month.

Illicit Drug Overdose Deaths by Month, 2016-2017<sup>[2]</sup>



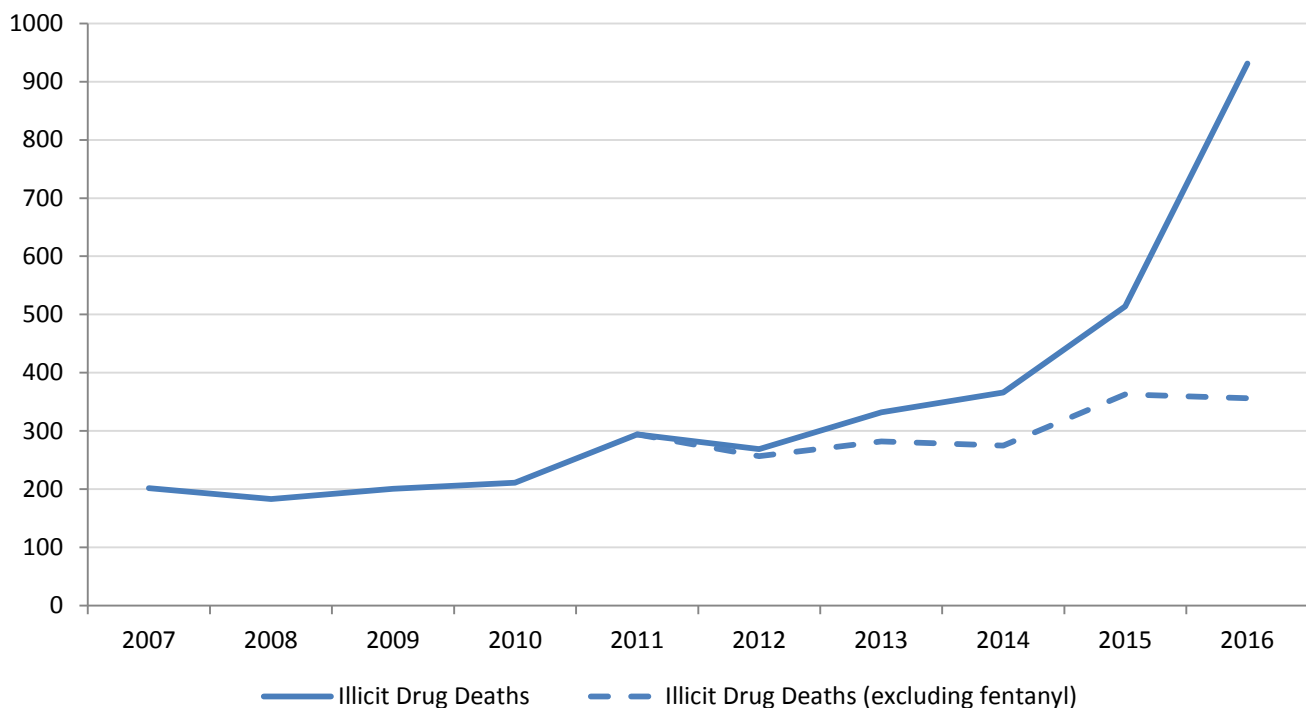
**For the period January – April 30, 2017:**

- Individuals aged 30-39 and 40-49 have accounted for the largest percentage of illicit drug overdose deaths (29.5% and 21.5%, respectively). About 72% of illicit drug overdose deaths were among individuals between the ages of 30-59 years. Males accounted for 82.8% of these suspected illicit drug overdose deaths.
- The top three townships where fatal illicit drug overdoses occurred were Vancouver, Surrey, and Victoria.
- Vancouver Coastal Health Authority had the highest number (171) of illicit drug overdose deaths, making up 35.0% of all illicit drug overdose deaths during this period, followed by Fraser Health Authority (145 deaths; 29.7% of all illicit drug overdose deaths).
- Vancouver Coastal Health Authority had the highest rate of illicit drug overdose deaths (43.5 deaths per 100,000 individuals) and the largest increase in rate from 2016 (95.9% increase) among all the health authorities. Overall, the rate of illicit drug overdose deaths in BC increased 54.8% compared to 2016 to 30.5 deaths per 100,000 individuals.
- Okanagan, Fraser East, Richmond, Vancouver, North Shore/Coast Garibaldi, Central Vancouver Island, and North Vancouver Island health services delivery areas saw greater than 50% increase in illicit drug overdose death rates compared to 2016.
- The number of illicit drug overdose deaths in Fraser (44) and Vancouver Coastal (54) in Apr 2017 matched or surpassed the highest number of overdose deaths ever recorded in those health authorities in a month.
- 89.5% of illicit drug overdose deaths occurred inside (54.1% private residences, 35.5% other inside locations) and 9.6% occurred outside in vehicles, sidewalks, streets, parks, etc.
- There were no deaths at supervised consumption or drug overdose prevention sites.

**Type of Drugs:**

- A review of completed cases from 2015 and 2016 indicates that the top four detected drugs relevant to illicit drug overdose deaths were cocaine (48.4%), fentanyl (44.8%), heroin (36.2%) and methamphetamine/amphetamine (29.3%).
- Drugs tested by Health Canada indicate that fentanyl and its analogues are being detected in samples of cocaine, heroin, and methamphetamine.
- Illicit fentanyl-detected deaths appear to account for the increase in illicit drug overdose deaths since 2012 as the number of illicit drug overdose deaths excluding fentanyl -detected has remained relatively stable since 2011 (average of 305 deaths per year). *This data is subject to change as further analogue testing becomes available.*

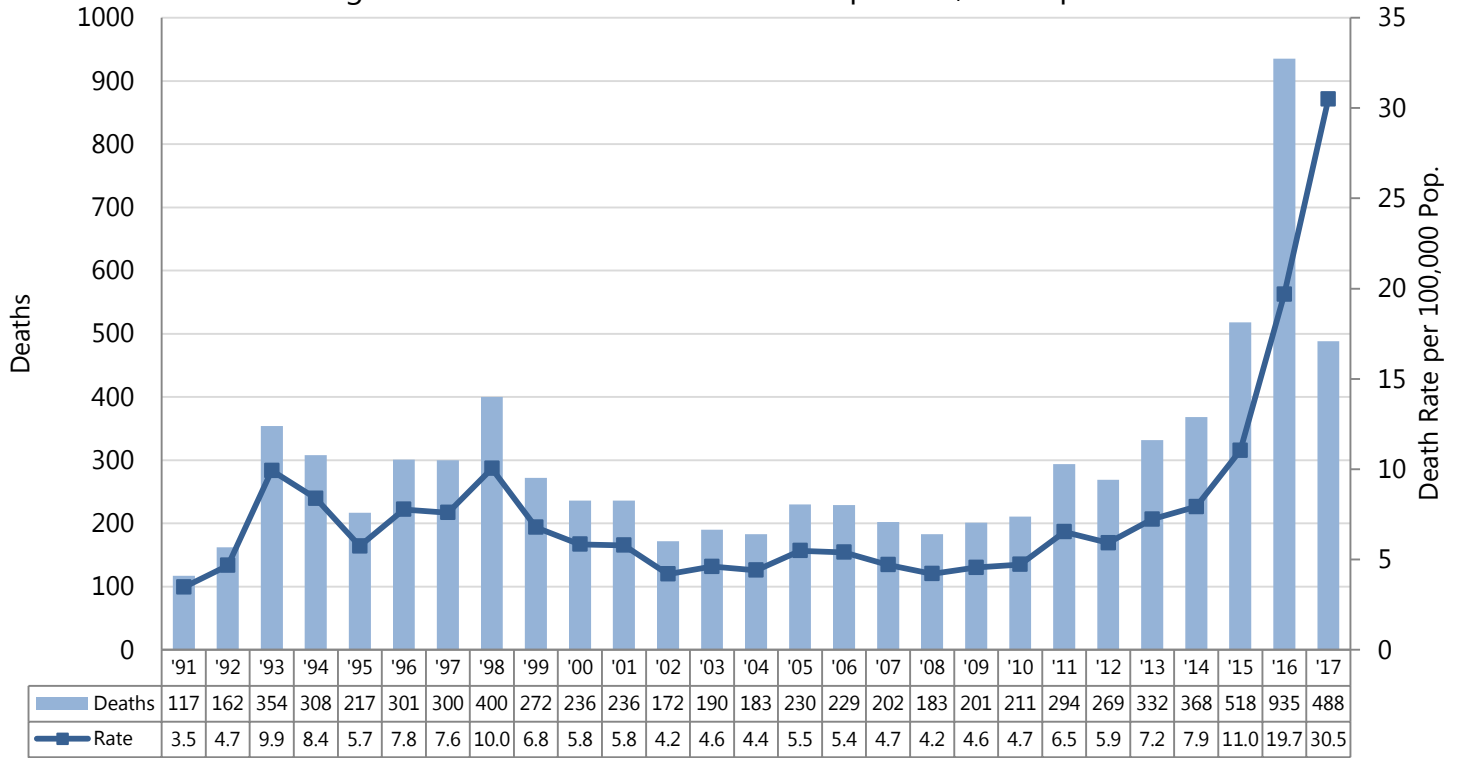
Illicit Drug Overdose Deaths including and excluding Fentanyl, 2007-2016



- Preliminary data suggests that the proportion of illicit drug overdose deaths for which fentanyl was detected (alone or in combination with other drugs) was 61.8% in 2016 and 61.2% in Jan-Feb 2017. *Fentanyl data for March/April was not available for this report.*

**BC Data and Rates**

Illicit Drug Overdose Deaths and Death Rate per 100,000 Population [2,5]



**Illicit Drug Overdose Deaths by Month, British Columbia, 2007-2017<sup>[2]</sup>**

| Month    | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017  |
|----------|------|------|------|------|------|------|------|------|------|------|-------|
| Jan      | 15   | 18   | 23   | 16   | 24   | 20   | 20   | 23   | 41   | 84   | 121   |
| Feb      | 14   | 8    | 15   | 14   | 24   | 17   | 21   | 39   | 31   | 58   | 109   |
| Mar      | 19   | 17   | 10   | 15   | 25   | 25   | 33   | 28   | 30   | 79   | 122   |
| Apr      | 24   | 18   | 8    | 9    | 26   | 31   | 31   | 29   | 34   | 69   | 136   |
| Subtotal | 72   | 61   | 56   | 54   | 99   | 93   | 105  | 119  | 136  | 290  | 488   |
| May      | 10   | 18   | 19   | 22   | 22   | 19   | 28   | 40   | 43   | 49   | -     |
| Jun      | 18   | 18   | 16   | 21   | 22   | 25   | 25   | 28   | 35   | 69   | -     |
| Jul      | 11   | 24   | 19   | 23   | 33   | 29   | 38   | 25   | 36   | 67   | -     |
| Aug      | 21   | 16   | 27   | 24   | 22   | 19   | 21   | 37   | 53   | 57   | -     |
| Sep      | 14   | 12   | 16   | 20   | 22   | 16   | 28   | 31   | 47   | 59   | -     |
| Oct      | 15   | 10   | 13   | 18   | 23   | 19   | 19   | 35   | 53   | 71   | -     |
| Nov      | 19   | 9    | 18   | 18   | 27   | 28   | 31   | 28   | 47   | 129  | -     |
| Dec      | 22   | 15   | 17   | 11   | 24   | 21   | 37   | 25   | 68   | 144  | -     |
| Total    | 202  | 183  | 201  | 211  | 294  | 269  | 332  | 368  | 518  | 935  | 488   |
| Average  | 16.8 | 15.3 | 16.8 | 17.6 | 24.5 | 22.4 | 27.7 | 30.7 | 43.2 | 77.9 | 122.0 |

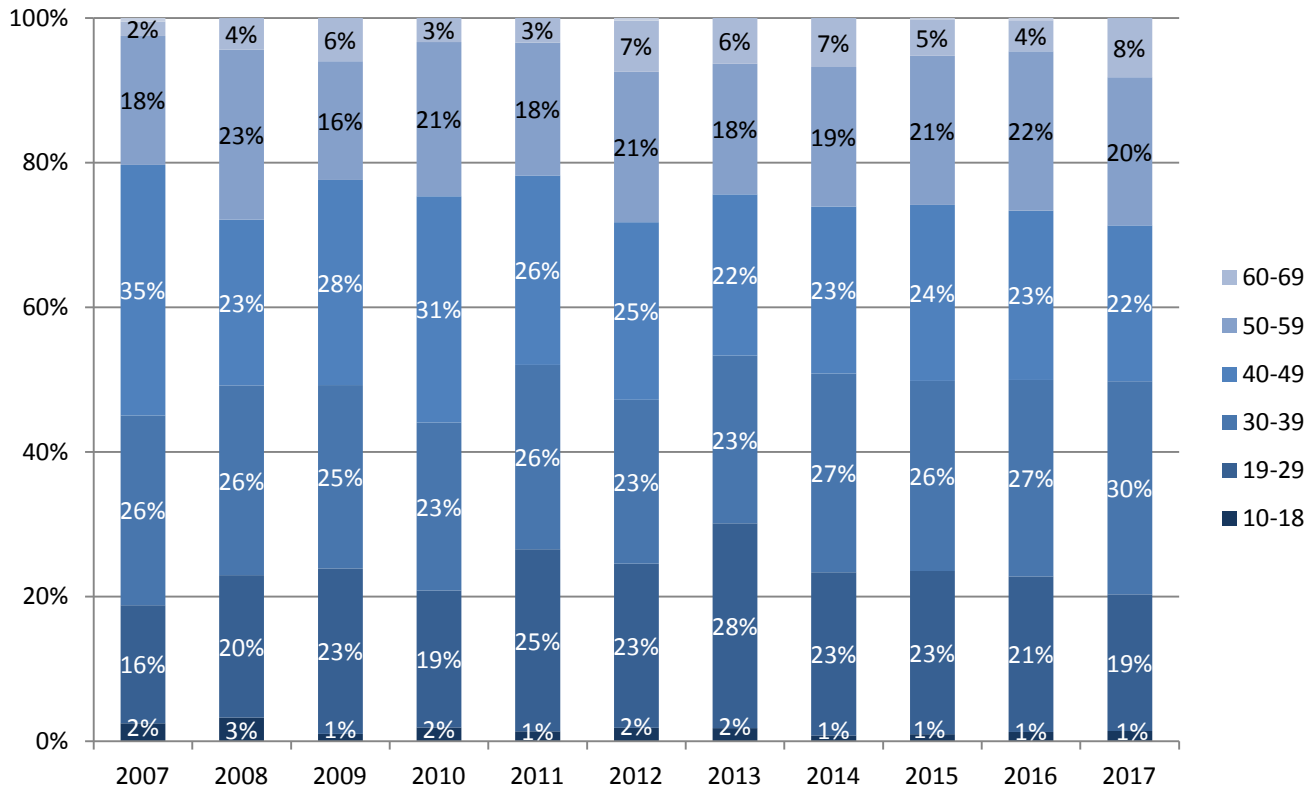
**BC Data by Gender/Age:**

| <b>Illicit Drug Overdose Deaths by Gender, 2007-2017<sup>[2]</sup></b> |            |            |            |            |            |            |            |            |            |            |            |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Gender   | 2007       | 2008       | 2009       | 2010       | 2011       | 2012       | 2013       | 2014       | 2015       | 2016       | 2017       |
| Female   | 47         | 49         | 55         | 49         | 82         | 75         | 79         | 86         | 101        | 184        | 84         |
| Male   | 155        | 134        | 146        | 162        | 212        | 194        | 253        | 282        | 417        | 751        | 404        |
| <b>Total</b>   | <b>202</b> | <b>183</b> | <b>201</b> | <b>211</b> | <b>294</b> | <b>269</b> | <b>332</b> | <b>368</b> | <b>518</b> | <b>935</b> | <b>488</b> |

| <b>Illicit Drug Overdose Deaths by Age Group, 2007-2017<sup>[2]</sup></b> |            |            |            |            |            |            |            |            |            |            |            |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Age Group   | 2007       | 2008       | 2009       | 2010       | 2011       | 2012       | 2013       | 2014       | 2015       | 2016       | 2017       |
| 10-18   | 5          | 6          | 2          | 4          | 4          | 5          | 6          | 3          | 5          | 12         | 7          |
| 19-29   | 33         | 36         | 46         | 40         | 74         | 61         | 94         | 83         | 117        | 201        | 92         |
| 30-39   | 53         | 48         | 51         | 49         | 75         | 61         | 77         | 101        | 136        | 254        | 144        |
| 40-49   | 70         | 42         | 57         | 66         | 77         | 66         | 74         | 85         | 126        | 219        | 105        |
| 50-59   | 36         | 43         | 33         | 45         | 54         | 56         | 60         | 71         | 107        | 206        | 100        |
| 60-69   | 4          | 8          | 12         | 7          | 10         | 19         | 21         | 25         | 26         | 40         | 40         |
| 70-79   | 1          | 0          | 0          | 0          | 0          | 1          | 0          | 0          | 1          | 3          | 0          |
| <b>Total</b>  | <b>202</b> | <b>183</b> | <b>201</b> | <b>211</b> | <b>294</b> | <b>269</b> | <b>332</b> | <b>368</b> | <b>518</b> | <b>935</b> | <b>488</b> |

*Note: The age range of decedents of illicit drug overdose between 2007-2017 ranged from 14 to 74 years of age.*

Illicit Drug Overdose Deaths by Age Group, 2007-2017



Age-Specific Illicit Drug Overdose Death Rates per 100,000, 2007-2017<sup>[5,7]</sup>

| Age Group    | 2007       | 2008       | 2009       | 2010       | 2011       | 2012       | 2013       | 2014       | 2015        | 2016        | 2017        |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|
| 10-18        | 1.0        | 1.3        | 0.4        | 0.9        | 0.9        | 1.1        | 1.3        | 0.7        | 1.1         | 2.7         | 4.8         |
| 19-29        | 5.2        | 5.5        | 6.9        | 5.9        | 10.9       | 8.9        | 13.7       | 11.9       | 16.7        | 28.5        | 39.3        |
| 30-39        | 9.1        | 8.2        | 8.6        | 8.3        | 12.6       | 10.1       | 12.6       | 16.2       | 21.6        | 39.6        | 66.3        |
| 40-49        | 10.1       | 6.1        | 8.3        | 9.7        | 11.4       | 9.9        | 11.3       | 13.2       | 19.8        | 34.6        | 49.7        |
| 50-59        | 5.8        | 6.8        | 5.1        | 6.8        | 8.0        | 8.2        | 8.6        | 10.1       | 15.2        | 29.3        | 42.9        |
| 60-69        | 1.0        | 1.8        | 2.6        | 1.5        | 2.0        | 3.7        | 3.9        | 4.5        | 4.5         | 6.7         | 19.7        |
| 70-79        | 0.4        | 0.0        | 0.0        | 0.0        | 0.0        | 0.3        | 0.0        | 0.0        | 0.3         | 0.9         | 0.0         |
| <b>Total</b> | <b>4.7</b> | <b>4.2</b> | <b>4.6</b> | <b>4.7</b> | <b>6.5</b> | <b>5.9</b> | <b>7.2</b> | <b>7.9</b> | <b>11.0</b> | <b>19.7</b> | <b>30.5</b> |

**BC Data by Township of Injury:**

| <b>Illicit Drug Overdose Deaths by Top Townships of Injury, 2007-2017* [2,4]</b> |            |            |            |            |            |            |            |            |            |            |            |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Township   | 2007       | 2008       | 2009       | 2010       | 2011       | 2012       | 2013       | 2014       | 2015       | 2016       | 2017       |
| Vancouver  | 59         | 38         | 60         | 42         | 69         | 65         | 80         | 101        | 136        | 219        | 144        |
| Surrey   | 22         | 20         | 23         | 33         | 42         | 44         | 36         | 43         | 76         | 113        | 51         |
| Victoria   | 19         | 29         | 13         | 13         | 17         | 17         | 25         | 20         | 20         | 66         | 37         |
| Kelowna  | 6          | 2          | 5          | 9          | 14         | 8          | 12         | 12         | 19         | 47         | 32         |
| Abbotsford   | 3          | 4          | 4          | 10         | 16         | 7          | 10         | 7          | 27         | 39         | 21         |
| Nanaimo  | 2          | 2          | 6          | 4          | 8          | 6          | 20         | 16         | 19         | 28         | 19         |
| Burnaby  | 9          | 12         | 8          | 9          | 10         | 10         | 13         | 11         | 16         | 36         | 15         |
| Kamloops   | 11         | 7          | 7          | 10         | 2          | 5          | 8          | 7          | 7          | 41         | 13         |
| Langley  | 3          | 6          | 2          | 3          | 10         | 5          | 10         | 10         | 10         | 29         | 12         |
| Richmond   | 0          | 1          | 3          | 4          | 4          | 1          | 3          | 3          | 6          | 11         | 12         |
| New Westminster  | 1          | 4          | 2          | 6          | 6          | 3          | 5          | 9          | 12         | 10         | 8          |
| Maple Ridge  | 5          | 2          | 6          | 4          | 4          | 5          | 10         | 14         | 29         | 27         | 7          |
| Chilliwack   | 3          | 4          | 2          | 2          | 8          | 8          | 6          | 6          | 10         | 9          | 7          |
| Campbell River   | 2          | 1          | 1          | 2          | 6          | 2          | 0          | 5          | 3          | 13         | 7          |
| Other Township   | 57         | 51         | 59         | 60         | 78         | 83         | 94         | 104        | 128        | 247        | 103        |
| <b>Total</b>   | <b>202</b> | <b>183</b> | <b>201</b> | <b>211</b> | <b>294</b> | <b>269</b> | <b>332</b> | <b>368</b> | <b>518</b> | <b>935</b> | <b>488</b> |

\*sorted by 2017 totals

**BC Data by Day of Week:**

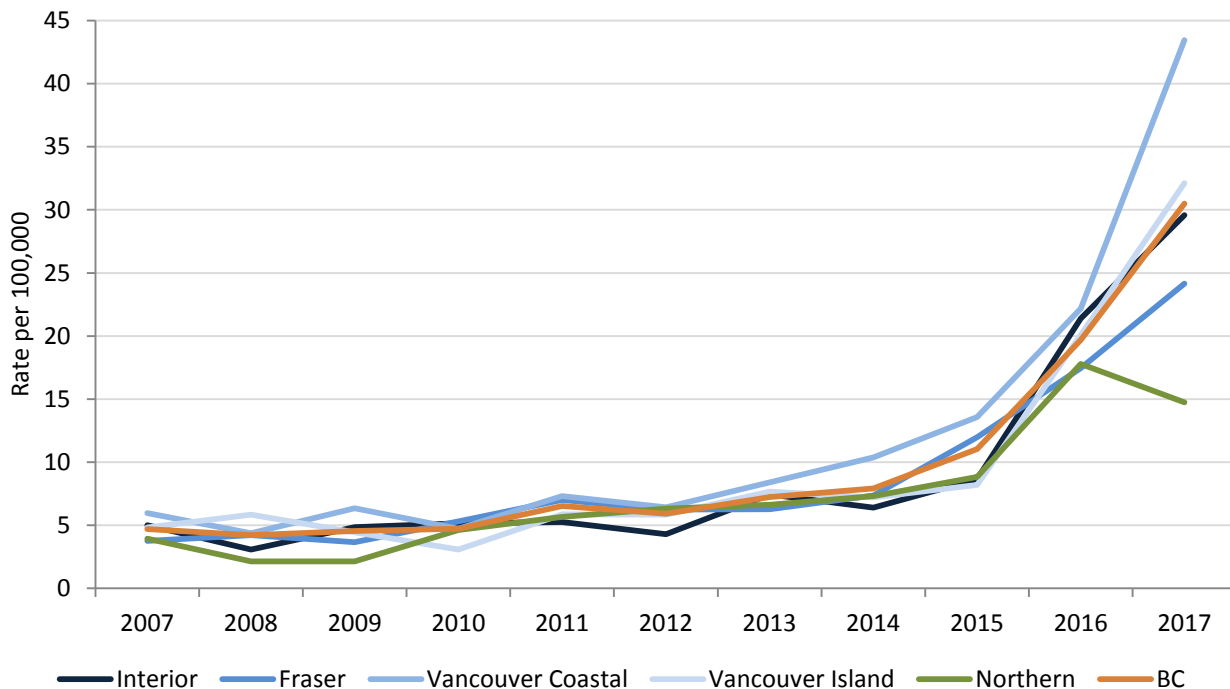
| <b>Illicit Drug Overdose Deaths by Day of Week of Injury, British Columbia, 2007-2017<sup>[2,3]</sup></b> |            |            |            |            |            |            |            |            |            |            |            |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Day   | 2007       | 2008       | 2009       | 2010       | 2011       | 2012       | 2013       | 2014       | 2015       | 2016       | 2017       |
| Monday  | 25         | 21         | 15         | 29         | 39         | 32         | 33         | 38         | 69         | 97         | 50         |
| Tuesday   | 23         | 24         | 24         | 26         | 27         | 35         | 42         | 37         | 61         | 110        | 62         |
| Wednesday   | 24         | 25         | 31         | 30         | 35         | 37         | 35         | 48         | 68         | 124        | 69         |
| Thursday  | 24         | 25         | 27         | 33         | 51         | 34         | 41         | 59         | 74         | 141        | 73         |
| Friday  | 38         | 31         | 28         | 33         | 42         | 32         | 57         | 61         | 79         | 132        | 86         |
| Saturday  | 34         | 34         | 34         | 35         | 53         | 46         | 72         | 72         | 88         | 170        | 73         |
| Sunday  | 34         | 23         | 42         | 25         | 47         | 53         | 52         | 53         | 79         | 161        | 75         |
| <b>Total</b>  | <b>202</b> | <b>183</b> | <b>201</b> | <b>211</b> | <b>294</b> | <b>269</b> | <b>332</b> | <b>368</b> | <b>518</b> | <b>935</b> | <b>488</b> |

**Health Authority Data:**

| Illicit Drug Overdose Deaths by Health Authority, 2007-2017 <sup>[2,4,6]</sup> |      |      |      |      |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|------|------|------|------|
| HA   | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Interior   | 35   | 22   | 35   | 37   | 38   | 31   | 54   | 47   | 64   | 159  | 74   |
| Fraser   | 57   | 65   | 58   | 86   | 115  | 104  | 106  | 126  | 209  | 311  | 145  |
| Vancouver Coastal  | 64   | 47   | 69   | 52   | 81   | 72   | 95   | 119  | 157  | 259  | 171  |
| Vancouver Island   | 35   | 43   | 33   | 23   | 44   | 44   | 58   | 55   | 63   | 156  | 84   |
| Northern   | 11   | 6    | 6    | 13   | 16   | 18   | 19   | 21   | 25   | 50   | 14   |
| BC   | 202  | 183  | 201  | 211  | 294  | 269  | 332  | 368  | 518  | 935  | 488  |

| Illicit Drug Overdose Death Rates by Health Authority per 100,000, 2007-2017 <sup>[4-7]</sup> |      |      |      |      |      |      |      |      |      |      |      |
|---|------|------|------|------|------|------|------|------|------|------|------|
| HA  | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Interior  | 5.0  | 3.1  | 4.9  | 5.2  | 5.3  | 4.3  | 7.5  | 6.4  | 8.7  | 21.4 | 29.6 |
| Fraser  | 3.8  | 4.2  | 3.7  | 5.3  | 7.0  | 6.2  | 6.3  | 7.4  | 12.0 | 17.5 | 24.2 |
| Vancouver Coastal   | 6.0  | 4.4  | 6.3  | 4.7  | 7.3  | 6.4  | 8.4  | 10.4 | 13.6 | 22.2 | 43.5 |
| Vancouver Island  | 4.8  | 5.9  | 4.5  | 3.1  | 5.9  | 5.8  | 7.7  | 7.2  | 8.2  | 20.1 | 32.1 |
| Northern  | 3.9  | 2.1  | 2.1  | 4.6  | 5.7  | 6.3  | 6.6  | 7.3  | 8.8  | 17.8 | 14.7 |
| BC  | 4.7  | 4.2  | 4.6  | 4.7  | 6.5  | 5.9  | 7.2  | 7.9  | 11.0 | 19.7 | 30.5 |

Illicit Drug Overdose Death Rates by Health Authority, 2007-2017





| Illicit Drug Overdose Deaths by Month of Death and Health Authority and Township, 2016-2017 <sup>[4,6]</sup> |       |                    |        |                      |                     |          |           |
|--|-------|--------------------|--------|----------------------|---------------------|----------|-----------|
| Year   | Month | Health Authorities |        |                      |                     |          | Township  |
|  |       | Interior           | Fraser | Vancouver<br>Coastal | Vancouver<br>Island | Northern | Vancouver |
| 2016   | Jan   | 16                 | 28     | 22                   | 14                  | 4        | 19        |
|  | Feb   | 10                 | 20     | 16                   | 10                  | 2        | 14        |
|  | Mar   | 12                 | 30     | 14                   | 15                  | 8        | 13        |
|  | Apr   | 9                  | 24     | 15                   | 15                  | 6        | 10        |
|  | May   | 10                 | 21     | 6                    | 8                   | 4        | 4         |
|  | Jun   | 10                 | 29     | 19                   | 7                   | 4        | 16        |
|  | Jul   | 8                  | 24     | 16                   | 15                  | 4        | 13        |
|  | Aug   | 7                  | 20     | 18                   | 10                  | 2        | 16        |
|  | Sep   | 13                 | 17     | 15                   | 12                  | 2        | 13        |
|  | Oct   | 15                 | 15     | 22                   | 16                  | 3        | 16        |
|  | Nov   | 19                 | 44     | 47                   | 18                  | 1        | 41        |
|  | Dec   | 30                 | 39     | 49                   | 16                  | 10       | 44        |
| 2017   | Jan   | 18                 | 33     | 50                   | 19                  | 1        | 45        |
|  | Feb   | 18                 | 31     | 32                   | 23                  | 5        | 29        |
|  | Mar   | 22                 | 37     | 35                   | 22                  | 6        | 27        |
|  | Apr   | 16                 | 44     | 54                   | 20                  | 2        | 43        |
| Total  |       | 233                | 456    | 430                  | 240                 | 64       | 363       |
| Average  |       | 14.6               | 28.5   | 26.9                 | 15.0                | 4.0      | 22.7      |

**Illicit Drug Overdose Deaths by Health Services Delivery Area, 2007-2017<sup>[2,4,6]</sup>**

| HSDA                        | 2007       | 2008       | 2009       | 2010       | 2011       | 2012       | 2013       | 2014       | 2015       | 2016       | 2017       |
|-----------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| East Kootenay               | 2          | 2          | 1          | 0          | 1          | 2          | 4          | 4          | 2          | 11         | 2          |
| Kootenay Boundary           | 4          | 0          | 2          | 3          | 4          | 4          | 2          | 3          | 7          | 9          | 3          |
| Okanagan                    | 13         | 9          | 15         | 18         | 28         | 16         | 33         | 27         | 42         | 76         | 50         |
| Thompson Cariboo            | 16         | 11         | 17         | 16         | 5          | 9          | 15         | 13         | 13         | 63         | 19         |
| Fraser East                 | 9          | 14         | 9          | 22         | 31         | 20         | 20         | 16         | 42         | 61         | 38         |
| Fraser North                | 19         | 22         | 23         | 26         | 25         | 30         | 35         | 51         | 74         | 97         | 41         |
| Fraser South                | 29         | 29         | 26         | 38         | 59         | 54         | 51         | 59         | 93         | 153        | 66         |
| Richmond                    | 0          | 1          | 3          | 4          | 4          | 1          | 3          | 3          | 6          | 11         | 12         |
| Vancouver                   | 59         | 38         | 60         | 42         | 69         | 65         | 80         | 101        | 136        | 219        | 144        |
| North Shore/Coast Garibaldi | 5          | 8          | 6          | 6          | 8          | 6          | 12         | 15         | 15         | 29         | 15         |
| South Vancouver Island      | 21         | 31         | 15         | 13         | 17         | 20         | 26         | 23         | 24         | 75         | 37         |
| Central Vancouver Island    | 8          | 6          | 13         | 6          | 17         | 20         | 24         | 25         | 31         | 56         | 33         |
| North Vancouver Island      | 6          | 6          | 5          | 4          | 10         | 4          | 8          | 7          | 8          | 25         | 14         |
| Northwest                   | 2          | 2          | 0          | 3          | 1          | 0          | 6          | 2          | 6          | 12         | 3          |
| Northern Interior           | 7          | 3          | 5          | 7          | 8          | 12         | 8          | 11         | 15         | 20         | 9          |
| Northeast                   | 2          | 1          | 1          | 3          | 7          | 6          | 5          | 8          | 4          | 18         | 2          |
| <b>Total</b>                | <b>202</b> | <b>183</b> | <b>201</b> | <b>211</b> | <b>294</b> | <b>269</b> | <b>332</b> | <b>368</b> | <b>518</b> | <b>935</b> | <b>488</b> |

**Illicit Drug Overdose Death Rates by Health Services Delivery Area per 100,000, 2007-2017<sup>[4-7]</sup>**

| HSDA                        | 2007       | 2008       | 2009       | 2010       | 2011       | 2012       | 2013       | 2014       | 2015        | 2016        | 2017        |
|-----------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|
| East Kootenay               | 2.7        | 2.6        | 1.3        | 0.0        | 1.3        | 2.6        | 5.2        | 5.1        | 2.6         | 14.1        | 7.7         |
| Kootenay Boundary           | 5.2        | 0.0        | 2.6        | 3.9        | 5.1        | 5.1        | 2.6        | 3.8        | 8.9         | 11.4        | 11.6        |
| Okanagan                    | 3.9        | 2.6        | 4.3        | 5.2        | 8.1        | 4.6        | 9.4        | 7.6        | 11.7        | 20.9        | 40.4        |
| Thompson Cariboo            | 7.5        | 5.1        | 7.8        | 7.4        | 2.3        | 4.1        | 6.8        | 5.9        | 5.8         | 28.1        | 25.4        |
| Fraser East                 | 3.3        | 5.1        | 3.2        | 7.8        | 10.9       | 7.0        | 7.0        | 5.5        | 14.2        | 20.3        | 37.5        |
| Fraser North                | 3.3        | 3.8        | 3.8        | 4.2        | 4.0        | 4.8        | 5.5        | 7.9        | 11.3        | 14.6        | 18.2        |
| Fraser South                | 4.3        | 4.2        | 3.7        | 5.3        | 8.0        | 7.2        | 6.7        | 7.6        | 11.7        | 18.7        | 24.1        |
| Richmond                    | 0.0        | 0.5        | 1.6        | 2.0        | 2.0        | 0.5        | 1.5        | 1.5        | 2.9         | 5.2         | 16.8        |
| Vancouver                   | 9.5        | 6.1        | 9.6        | 6.6        | 10.9       | 10.1       | 12.3       | 15.3       | 20.4        | 32.6        | 63.6        |
| North Shore/Coast Garibaldi | 1.9        | 3.0        | 2.2        | 2.2        | 2.9        | 2.2        | 4.3        | 5.3        | 5.3         | 10.3        | 15.7        |
| South Vancouver Island      | 5.9        | 8.6        | 4.1        | 3.5        | 4.6        | 5.4        | 7.0        | 6.2        | 6.4         | 19.6        | 28.7        |
| Central Vancouver Island    | 3.2        | 2.3        | 5.0        | 2.3        | 6.5        | 7.6        | 9.1        | 9.4        | 11.6        | 20.5        | 36.1        |
| North Vancouver Island      | 5.2        | 5.1        | 4.2        | 3.4        | 8.3        | 3.3        | 6.6        | 5.8        | 6.6         | 20.5        | 33.9        |
| Northwest                   | 2.7        | 2.7        | 0.0        | 4.1        | 1.4        | 0.0        | 8.2        | 2.7        | 8.4         | 17.1        | 12.2        |
| Northern Interior           | 5.0        | 2.1        | 3.6        | 5.0        | 5.6        | 8.4        | 5.6        | 7.7        | 10.7        | 14.5        | 19.3        |
| Northeast                   | 3.1        | 1.5        | 1.5        | 4.5        | 10.4       | 8.6        | 7.1        | 11.2       | 5.6         | 24.9        | 8.4         |
| <b>Total</b>                | <b>4.7</b> | <b>4.2</b> | <b>4.6</b> | <b>4.7</b> | <b>6.5</b> | <b>5.9</b> | <b>7.2</b> | <b>7.9</b> | <b>11.0</b> | <b>19.7</b> | <b>30.5</b> |

**BC Data by Place of Injury**

| Illicit Drug Overdose Deaths by Place of Injury, BC, 2016-2017 <sup>[2]</sup> |             |             |
|---|-------------|-------------|
|   | 2016        | 2017        |
| Inside:   |             |             |
| Private Residence   | 570 (61.0%) | 264 (54.1%) |
| Other Residence   | 228 (24.4%) | 146 (29.9%) |
| Other Inside  | 42 (4.5%)   | 27 (5.5%)   |
| Outside   | 86 (9.2%)   | 47 (9.6%)   |
| Unknown   | 9 (1.0%)    | 4 (0.8%)    |
| <b>Total</b>  | <b>935</b>  | <b>488</b>  |

Preliminary circumstances suggest that the majority of fatal illicit drug overdoses in 2017 occurred in inside locations (89.5%) while 9.6% occurred outside.

Private Residence – includes driveways garages, trailer homes and either decedent’s own or another’s residence.

Other Residence - includes hotels, motels, rooming houses, shelters, etc.

Other Inside– includes facilities, occupational sites, public buildings, and businesses.

Outside – includes vehicles, streets, sidewalks, parking lots, public parks, wooded areas, and campgrounds

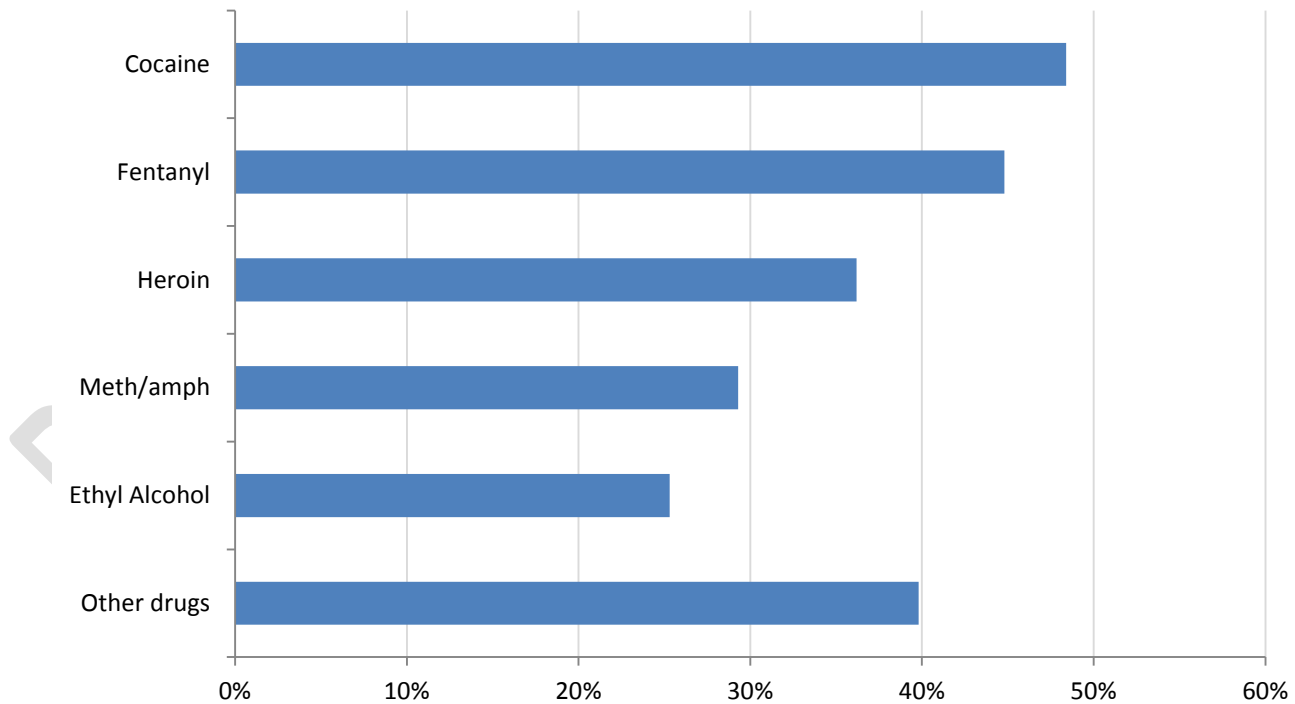
**BC Data by Relevant Drugs Detected:**

| <b>Top Relevant Drugs Detected Among Illicit Drug Overdose Deaths, 2015-2016</b> |            |
|--|------------|
| Drug Detected  | BC (n=734) |
| Cocaine  | 48.4%      |
| Fentanyl   | 44.8%      |
| Heroin   | 36.2%      |
| Meth/amph <sup>α</sup>   | 29.3%      |
| Ethyl alcohol  | 25.3%      |
| Other drugs  | 39.8%      |

<sup>α</sup> Methamphetamine and/or amphetamine.

*Note: Relevant drugs are drugs noted by the coroner as being relevant to the death. Drug information is only available for concluded investigations. As deaths could involve multiple drugs, percentages can add up to more than 100%. Other drug includes other opiates, benzodiazepines & Z-drugs, antidepressants, antiepileptics, antipsychotics, MDMA/MDA, cannabinoids, over-the-counter drugs, and other drugs not listed.*

**Top Relevant Drugs Detected Among Illicit Drug Overdose Deaths, 2015-2016**

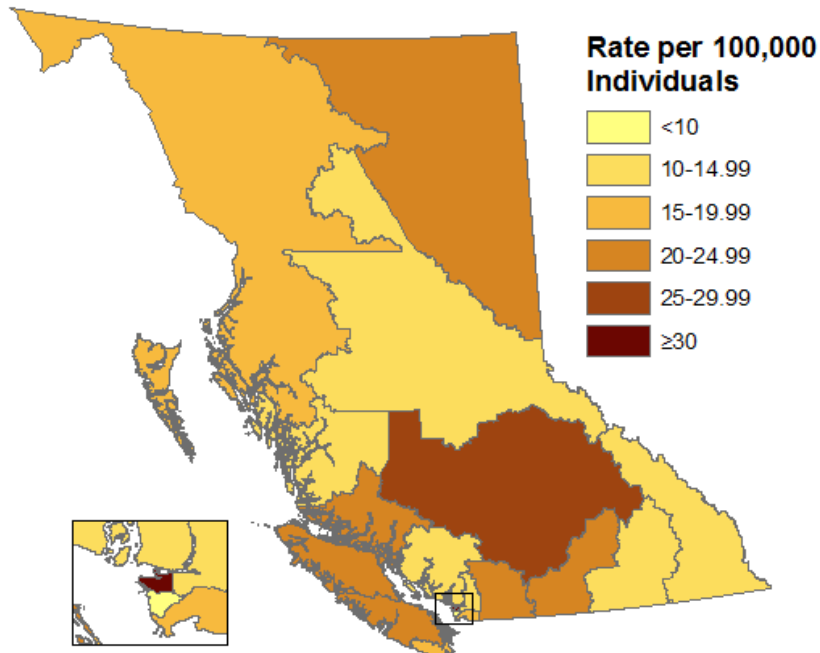


**Notes:**

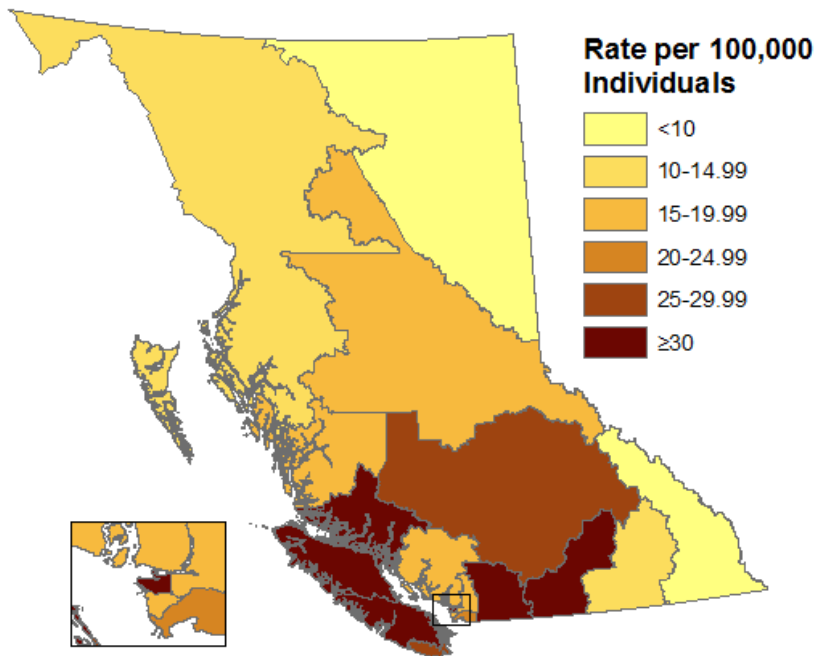
1. The BCCS operates in a live database environment. Some data for more recent years is based on preliminary circumstances and is subject to change as investigations are concluded. Data are not directly comparable to published counts from previous years.
2. 2017 data includes January 1, 2017 to April 30, 2017.
3. Date of death was used in tables where date of injury was unknown.
4. Death township was used in 13 cases of unknown or out of province injury township.
5. Population estimates were taken from:  
<http://www.bcstats.gov.bc.ca/StatisticsBySubject/Demography/PopulationEstimates.aspx>
6. Health Region breakdowns can be found at:  
<http://www.bcstats.gov.ca/statisticsbysubject/geography/referencemaps/health.aspx>
7. 2017 population estimates were taken from: <http://www2.gov.bc.ca/gov/content/data/statistics/people-population-community/population/population-projections>. 2017 rates were calculated by multiplying the population estimate by the fraction of months that have passed in the year for this reporting period. ≥

# Illicit Drug Overdose Death Rate Maps by Health Services Delivery Area

2016 Illicit Drug Overdose Death Rates by Health Services Delivery Area



2017 Illicit Drug Overdose Death Rates by Health Services Delivery Area



References for health regions can be found at:

<http://www.bcstats.gov.bc.ca/statisticsbysubject/geography/referencemaps/health.aspx>

## List of Townships and Corresponding Health Regions

| Township Name   | Health Authority  | Health Services Delivery Area |
|-----------------|-------------------|-------------------------------|
| 100 Mile House  | Interior          | Thompson Cariboo Shuswap      |
| 108 Mile Ranch  | Interior          | Thompson Cariboo Shuswap      |
| 150 Mile House  | Interior          | Thompson Cariboo Shuswap      |
| Abbotsford      | Fraser            | Fraser East                   |
| Kent            | Fraser            | Fraser East                   |
| Langley         | Fraser            | Fraser South                  |
| Alert Bay       | Vancouver Island  | North Vancouver Island        |
| Armstrong       | Interior          | Okanagan                      |
| Arras           | Northern          | Northeast                     |
| Beasley         | Interior          | Kootenay Boundary             |
| Beaver Falls    | Interior          | Kootenay Boundary             |
| Blue River      | Interior          | Thompson Cariboo Shuswap      |
| Bowen Island    | Vancouver Coastal | North Shore/Coast Garibaldi   |
| Bowser          | Vancouver Island  | Central Vancouver Island      |
| Burnaby         | Fraser            | Fraser North                  |
| Burns Lake      | Northern          | Northern Interior             |
| Cache Creek     | Interior          | Thompson Cariboo Shuswap      |
| Campbell River  | Vancouver Island  | North Vancouver Island        |
| Canal Flats     | Interior          | East Kootenay                 |
| Salmon Arm      | Interior          | Thompson Cariboo Shuswap      |
| Castlegar       | Interior          | Kootenay Boundary             |
| Cawston         | Interior          | Okanagan                      |
| Cedar           | Vancouver Island  | Central Vancouver Island      |
| Central Saanich | Vancouver Island  | South Vancouver Island        |
| Charlie Lake    | Northern          | Northeast                     |
| Chase           | Interior          | Thompson Cariboo Shuswap      |
| Chemainus       | Vancouver Island  | Central Vancouver Island      |
| Chetwynd        | Northern          | Northeast                     |
| Chilliwack      | Fraser            | Fraser East                   |
| Christina Lake  | Interior          | Kootenay Boundary             |
| Clearwater      | Interior          | Thompson Cariboo Shuswap      |
| Cobble Hill     | Vancouver Island  | Central Vancouver Island      |
| Coldstream      | Interior          | Okanagan                      |
| Colwood         | Vancouver Island  | South Vancouver Island        |
| Comox           | Vancouver Island  | North Vancouver Island        |
| Coombs          | Vancouver Island  | Central Vancouver Island      |
| Coquitlam       | Fraser            | Fraser North                  |
| Cortes Island   | Vancouver Island  | North Vancouver Island        |
| Courtenay       | Vancouver Island  | North Vancouver Island        |
| Cowichan Bay    | Vancouver Island  | Central Vancouver Island      |
| Cranbrook       | Interior          | East Kootenay                 |
| Crescent Valley | Interior          | Kootenay Boundary             |

## List of Townships and Corresponding Health Regions

| Township Name             | Health Authority  | Health Services Delivery Area |
|---------------------------|-------------------|-------------------------------|
| Creston                   | Interior          | East Kootenay                 |
| North Cowichan            | Vancouver Island  | Central Vancouver Island      |
| Cultus Lake               | Fraser            | Fraser East                   |
| Cumberland                | Vancouver Island  | North Vancouver Island        |
| Dawson Creek              | Northern          | Northeast                     |
| Dease Lake                | Northern          | Northwest                     |
| Delta                     | Fraser            | Fraser South                  |
| Duncan                    | Vancouver Island  | Central Vancouver Island      |
| Edgewood                  | Interior          | Kootenay Boundary             |
| Elkford                   | Interior          | East Kootenay                 |
| Enderby                   | Interior          | Okanagan                      |
| Errington                 | Vancouver Island  | Central Vancouver Island      |
| Esquimalt                 | Vancouver Island  | South Vancouver Island        |
| Fairmont Hot Springs      | Interior          | East Kootenay                 |
| Falkland                  | Interior          | Thompson Cariboo Shuswap      |
| Fort Nelson               | Northern          | Northeast                     |
| Fort St. James            | Northern          | Northern Interior             |
| Fort St. John             | Northern          | Northeast                     |
| Gabriola Island           | Vancouver Island  | Central Vancouver Island      |
| Galiano Island            | Vancouver Island  | South Vancouver Island        |
| Gibsons                   | Vancouver Coastal | North Shore/Coast Garibaldi   |
| Gillies Bay               | Vancouver Coastal | North Shore/Coast Garibaldi   |
| Gold River                | Vancouver Island  | North Vancouver Island        |
| Golden                    | Interior          | East Kootenay                 |
| Grand Forks               | Interior          | Kootenay Boundary             |
| Harrison Hot Springs      | Fraser            | Fraser East                   |
| Hope                      | Fraser            | Fraser East                   |
| Horsefly                  | Interior          | Thompson Cariboo Shuswap      |
| Houston                   | Northern          | Northwest                     |
| Invermere                 | Interior          | East Kootenay                 |
| Isle Pierre               | Northern          | Northern Interior             |
| Kamloops                  | Interior          | Thompson Cariboo Shuswap      |
| Kaslo                     | Interior          | Kootenay Boundary             |
| Kelowna                   | Interior          | Okanagan                      |
| Kimberley                 | Interior          | East Kootenay                 |
| Kispiox                   | Northern          | Northwest                     |
| Kitamaat Village          | Northern          | Northwest                     |
| Kitimat                   | Northern          | Northwest                     |
| Kitseguecla (Gitsegukla)  | Northern          | Northwest                     |
| Lac La Hache              | Interior          | Thompson Cariboo Shuswap      |
| Ladysmith                 | Vancouver Island  | Central Vancouver Island      |
| Lake Country, District Of | Interior          | Okanagan                      |



**List of Townships and Corresponding Health Regions**

| Township Name   | Health Authority  | Health Services Delivery Area |
|-----------------|-------------------|-------------------------------|
| Lake Cowichan   | Vancouver Island  | Central Vancouver Island      |
| Langford        | Vancouver Island  | South Vancouver Island        |
| Lantzville      | Vancouver Island  | Central Vancouver Island      |
| Lee Creek       | Interior          | Thompson Cariboo Shuswap      |
| Lillooet        | Interior          | Thompson Cariboo Shuswap      |
| Lions Bay       | Vancouver Coastal | North Shore/Coast Garibaldi   |
| Logan Lake      | Interior          | Thompson Cariboo Shuswap      |
| Lumby           | Interior          | Okanagan                      |
| Mabel Lake      | Interior          | Okanagan                      |
| Mackenzie       | Northern          | Northern Interior             |
| Madeira Park    | Vancouver Coastal | North Shore/Coast Garibaldi   |
| Malakwa         | Interior          | Thompson Cariboo Shuswap      |
| Maple Ridge     | Fraser            | Fraser North                  |
| Mayne Island    | Vancouver Island  | South Vancouver Island        |
| Merritt         | Interior          | Thompson Cariboo Shuswap      |
| Mill Bay        | Vancouver Island  | Central Vancouver Island      |
| Mission         | Fraser            | Fraser East                   |
| Nakusp          | Interior          | Kootenay Boundary             |
| Nanaimo         | Vancouver Island  | Central Vancouver Island      |
| Nanoose Bay     | Vancouver Island  | Central Vancouver Island      |
| Nelson          | Interior          | Kootenay Boundary             |
| New Denver      | Interior          | Kootenay Boundary             |
| New Hazelton    | Northern          | Northwest                     |
| New Westminster | Fraser            | Fraser North                  |
| North Vancouver | Vancouver Coastal | North Shore/Coast Garibaldi   |
| Oak Bay         | Vancouver Island  | South Vancouver Island        |
| Okanagan Falls  | Interior          | Okanagan                      |
| Olalla          | Interior          | Okanagan                      |
| Oliver          | Interior          | Okanagan                      |
| Osoyoos         | Interior          | Okanagan                      |
| Parksville      | Vancouver Island  | Central Vancouver Island      |
| Peachland       | Interior          | Okanagan                      |
| Pemberton       | Vancouver Coastal | North Shore/Coast Garibaldi   |
| Pender Island   | Vancouver Island  | South Vancouver Island        |
| Penticton       | Interior          | Okanagan                      |
| Pink Mountain   | Northern          | Northeast                     |
| Pitt Meadows    | Fraser            | Fraser North                  |
| Port Alberni    | Vancouver Island  | Central Vancouver Island      |
| Port Alice      | Vancouver Island  | North Vancouver Island        |
| Port Coquitlam  | Fraser            | Fraser North                  |
| Port Hardy      | Vancouver Island  | North Vancouver Island        |
| Port McNeill    | Vancouver Island  | North Vancouver Island        |

**List of Townships and Corresponding Health Regions**

| Township Name        | Health Authority  | Health Services Delivery Area |
|----------------------|-------------------|-------------------------------|
| Port Moody           | Fraser            | Fraser North                  |
| Powell River         | Vancouver Coastal | North Shore/Coast Garibaldi   |
| Prince George        | Northern          | Northern Interior             |
| Prince Rupert        | Northern          | Northwest                     |
| Princeton            | Interior          | Okanagan                      |
| Prophet River        | Northern          | Northeast                     |
| Quadra Island        | Vancouver Island  | North Vancouver Island        |
| Qualicum Beach       | Vancouver Island  | Central Vancouver Island      |
| Queen Charlotte City | Northern          | Northwest                     |
| Quesnel              | Northern          | Northern Interior             |
| Radium Hot Springs   | Interior          | East Kootenay                 |
| Revelstoke           | Interior          | Thompson Cariboo Shuswap      |
| Richmond             | Vancouver Coastal | Richmond                      |
| Roberts Creek        | Vancouver Coastal | North Shore/Coast Garibaldi   |
| Rock Creek           | Interior          | Kootenay Boundary             |
| Saanich              | Vancouver Island  | South Vancouver Island        |
| Salmo                | Interior          | Kootenay Boundary             |
| Salt Spring Island   | Vancouver Island  | South Vancouver Island        |
| Sayward              | Vancouver Island  | North Vancouver Island        |
| Sechelt              | Vancouver Coastal | North Shore/Coast Garibaldi   |
| Seton Portage        | Interior          | Thompson Cariboo Shuswap      |
| Shawnigan Lake       | Vancouver Island  | Central Vancouver Island      |
| Sicamous             | Interior          | Thompson Cariboo Shuswap      |
| Smithers             | Northern          | Northwest                     |
| Sointula             | Vancouver Island  | North Vancouver Island        |
| Sooke                | Vancouver Island  | South Vancouver Island        |
| South Slokan         | Interior          | Kootenay Boundary             |
| South Wellington     | Vancouver Island  | Central Vancouver Island      |
| Sparwood             | Interior          | East Kootenay                 |
| Squamish             | Vancouver Coastal | North Shore/Coast Garibaldi   |
| Sullivan Bay         | Vancouver Island  | North Vancouver Island        |
| Summerland           | Interior          | Okanagan                      |
| Surrey               | Fraser            | Fraser South                  |
| Terrace              | Northern          | Northwest                     |
| Trail                | Interior          | Kootenay Boundary             |
| Tumbler Ridge        | Northern          | Northeast                     |
| Ucluelet             | Vancouver Island  | Central Vancouver Island      |
| Vancouver            | Vancouver Coastal | Vancouver                     |
| Vanderhoof           | Northern          | Northern Interior             |
| Vernon               | Interior          | Okanagan                      |
| Victoria             | Vancouver Island  | South Vancouver Island        |
| West Kelowna         | Interior          | Okanagan                      |

**List of Townships and Corresponding Health Regions**

| Township Name  | Health Authority  | Health Services Delivery Area |
|----------------|-------------------|-------------------------------|
| West Vancouver | Vancouver Coastal | North Shore/Coast Garibaldi   |
| Whisky Creek   | Vancouver Island  | Central Vancouver Island      |
| Whistler       | Vancouver Coastal | North Shore/Coast Garibaldi   |
| White Rock     | Fraser            | Fraser South                  |
| Williams Lake  | Interior          | Thompson Cariboo Shuswap      |
| Winlaw         | Interior          | Kootenay Boundary             |
| Wonowon        | Northern          | Northeast                     |
| Yale           | Fraser            | Fraser East                   |
| Ymir           | Interior          | Kootenay Boundary             |
| Youbou         | Vancouver Island  | Central Vancouver Island      |
| Zeballos       | Vancouver Island  | North Vancouver Island        |