

## **HRB Bulletin**

National Drug-Related Deaths Index

# **Drug Poisoning Deaths in Ireland in 2022: Data from the National Drug-Related Deaths Index (NDRDI)**

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## Drug Poisoning Deaths in Ireland in 2022:

### Data from the National Drug-Related Deaths Index (NDRDI)

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## E-Appendix A Selected characteristics of the deceased and circumstances of death, NDRDI 2013 and 2022

|                                                    |   | 2013       | 2014       | 2015       | 2016       | 2017       | 2018       | 2019       | 2020       | 2021       | 2022       |
|----------------------------------------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Number of deaths</b>                            |   | <b>324</b> | <b>311</b> | <b>309</b> | <b>309</b> | <b>326</b> | <b>363</b> | <b>379</b> | <b>446</b> | <b>373</b> | <b>343</b> |
| Employed                                           | n | 40         | 34         | 39         | 31         | 44         | 40         | 55         | 67         | 43         | 52         |
|                                                    | % | 12.3       | 10.9       | 12.6       | 10.0       | 13.5       | 11.0       | 14.5       | 15.0       | 11.5       | 15.2       |
| Not in employment <sup>a</sup>                     | n | 197        | 218        | 197        | 197        | 201        | 214        | 230        | 247        | 189        | 154        |
|                                                    | % | 60.8       | 70.1       | 63.8       | 63.8       | 61.7       | 59.0       | 60.7       | 55.4       | 50.7       | 44.9       |
| Stable accommodation                               | n | 235        | 241        | 251        | 246        | 261        | 283        | 304        | 350        | 290        | 237        |
|                                                    | % | 72.5       | 77.5       | 81.2       | 79.6       | 80.1       | 78.0       | 80.2       | 78.5       | 77.7       | 69.1       |
| Relationship status single                         | n | 228        | 238        | 226        | 219        | 227        | 252        | 286        | 335        | 289        | 236        |
|                                                    | % | 70.4       | 76.5       | 73.1       | 70.9       | 69.6       | 69.4       | 75.5       | 75.1       | 77.5       | 68.8       |
| Parent of child(ren) under 18 years                | n | 36         | 45         | 46         | 45         | 28         | 43         | 49         | 60         | 46         | 32         |
|                                                    | % | 11.1       | 14.5       | 14.9       | 14.6       | 8.6        | 11.8       | 12.9       | 13.5       | 12.3       | 9.3        |
| <b>Place of incident</b>                           |   |            |            |            |            |            |            |            |            |            |            |
| Private dwelling                                   | n | 220        | 233        | 252        | 234        | 238        | 260        | 280        | 337        | 283        | 241        |
|                                                    | % | 67.9       | 74.9       | 81.6       | 75.7       | 73.0       | 71.6       | 73.9       | 75.6       | 75.9       | 70.3       |
| Public place <sup>b</sup>                          | n | 34         | 43         | 22         | 35         | 32         | 40         | 53         | 41         | 27         | 27         |
|                                                    | % | 10.5       | 13.8       | 7.1        | 11.3       | 9.8        | 11.0       | 14.0       | 9.2        | 7.2        | 7.9        |
| Accommodation for people who are homeless          | n | 23         | 14         | 18         | 23         | 26         | 26         | 31         | 50         | 42         | 29         |
|                                                    | % | 7.1        | 4.5        | 5.8        | 7.4        | 8.0        | 7.2        | 8.2        | 11.2       | 11.3       | 8.5        |
| <b>With whom at the time of incident</b>           |   |            |            |            |            |            |            |            |            |            |            |
| Alone at the time of incident                      | n | 127        | 136        | 130        | 123        | 139        | 148        | 144        | 180        | 154        | 160        |
|                                                    | % | 39.2       | 43.7       | 42.1       | 39.8       | 42.6       | 40.8       | 38.0       | 40.4       | 41.3       | 46.6       |
| <i>Alone and injecting at the time of incident</i> | n | 27         | 27         | 24         | 18         | 21         | 26         | 20         | 24         | 16         | 16         |
|                                                    | % | 21.3       | 19.9       | 18.5       | 14.6       | 15.1       | 17.6       | 13.9       | 13.3       | 10.4       | 10.0       |

<sup>a</sup> Refers to those unemployed, retired, or unable to work due to disability

<sup>b</sup> Includes public place, street, or park, and derelict or other public building

## E-Appendix B Number of drug poisoning deaths by HSE health region of incident, NDRDI 2013 to 2022

|                                      |   | Year of death |      |      |      |      |      |      |      |      |      |
|--------------------------------------|---|---------------|------|------|------|------|------|------|------|------|------|
|                                      |   | 2013          | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| HSE Dublin and North East            | n | 101           | 90   | 93   | 83   | 92   | 80   | 100  | 114  | 105  | 102  |
|                                      | % | 31.2          | 28.9 | 30.1 | 26.9 | 28.2 | 22.0 | 26.4 | 25.6 | 28.1 | 29.7 |
| HSE Dublin and Midlands              | n | 69            | 90   | 88   | 93   | 80   | 105  | 107  | 134  | 85   | 63   |
|                                      | % | 21.3          | 28.9 | 28.5 | 30.1 | 24.5 | 28.9 | 28.2 | 30.0 | 22.8 | 18.4 |
| HSE Dublin and South East            | n | 32            | 50   | 50   | 45   | 45   | 61   | 61   | 69   | 66   | 46   |
|                                      | % | 9.9           | 16.1 | 16.2 | 14.6 | 13.8 | 16.8 | 16.1 | 15.5 | 17.7 | 13.4 |
| HSE South West                       | n | 26            | 31   | 31   | 39   | 38   | 39   | 50   | 58   | 53   | 51   |
|                                      | % | 8.0           | 10.0 | 10.0 | 12.6 | 11.7 | 10.7 | 13.2 | 13.0 | 14.2 | 14.9 |
| HSE Mid West                         | n | 25            | 16   | 12   | 16   | 21   | 26   | 23   | 22   | 29   | 23   |
|                                      | % | 7.7           | 5.1  | 3.9  | 5.2  | 6.4  | 7.2  | 6.1  | 4.9  | 7.8  | 6.7  |
| HSE West and North West              | n | 27            | 16   | 23   | 20   | 25   | 25   | 30   | 36   | 22   | 14   |
|                                      | % | 8.3           | 5.1  | 7.4  | 6.5  | 7.7  | 6.9  | 7.9  | 8.1  | 5.9  | 4.1  |
| Ireland unknown / other <sup>a</sup> | n | 44            | 18   | 12   | 13   | 25   | 27   | 8    | 13   | 13   | 44   |
|                                      | % | 13.6          | 5.8  | 3.9  | 4.2  | 7.7  | 7.4  | 2.1  | 2.9  | 3.5  | 12.8 |

<sup>a</sup> Other: relevant geocodes were not available

### E-Appendix C Number of drug poisoning deaths by HSE health region of residence, NDRDI 2013 to 2022

|                                      |   | Year of death |      |      |      |      |      |      |      |      |      |
|--------------------------------------|---|---------------|------|------|------|------|------|------|------|------|------|
|                                      |   | 2013          | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| HSE Dublin and North East            | n | 114           | 87   | 91   | 83   | 92   | 89   | 97   | 116  | 105  | 100  |
|                                      | % | 35.2          | 28.0 | 29.4 | 26.9 | 28.2 | 24.5 | 25.6 | 26.0 | 28.2 | 29.2 |
| HSE Dublin and Midlands              | n | 71            | 83   | 88   | 84   | 73   | 102  | 106  | 130  | 87   | 80   |
|                                      | % | 21.9          | 26.7 | 28.5 | 27.2 | 22.4 | 28.1 | 28.0 | 29.1 | 23.3 | 23.3 |
| HSE Dublin and South East            | n | 39            | 48   | 52   | 44   | 51   | 71   | 63   | 69   | 71   | 58   |
|                                      | % | 12.0          | 15.4 | 16.8 | 14.2 | 15.6 | 19.6 | 16.6 | 15.5 | 19.0 | 16.9 |
| HSE South West                       | n | 32            | 34   | 35   | 44   | 38   | 36   | 45   | 59   | 54   | 53   |
|                                      | % | 9.9           | 10.9 | 11.3 | 14.2 | 11.7 | 9.9  | 11.9 | 13.2 | 14.5 | 15.5 |
| HSE Mid West                         | n | 28            | 18   | 14   | 17   | 26   | 27   | 27   | 23   | 30   | 25   |
|                                      | % | 8.6           | 5.8  | 4.5  | 5.5  | 8.0  | 7.4  | 7.1  | 5.2  | 8.0  | 7.3  |
| HSE West and North West              | n | 31            | 20   | 24   | 22   | 27   | 26   | 30   | 40   | 21   | 21   |
|                                      | % | 9.6           | 6.4  | 7.8  | 7.1  | 8.3  | 7.2  | 7.9  | 9.0  | 5.6  | 6.1  |
| Ireland unknown / other <sup>a</sup> | n | 9             | 21   | ~    | 15   | 19   | 12   | 11   | 9    | ~    | 6    |
|                                      | % | 2.8           | 6.8  | ~    | 4.9  | 5.8  | 3.3  | 2.9  | 2.0  | ~    | 1.7  |

<sup>a</sup> Other: relevant geocodes were not available

~ Five deaths or fewer

E-Appendix D Number of drug poisoning deaths by county of residence, NDRDI 2013 to 2022

|                             | Year of death |            |            |            |            |            |            |            |            |            |
|-----------------------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                             | 2013          | 2014       | 2015       | 2016       | 2017       | 2018       | 2019       | 2020       | 2021       | 2022       |
| <b>Number of deaths</b>     | <b>324</b>    | <b>311</b> | <b>309</b> | <b>309</b> | <b>326</b> | <b>363</b> | <b>379</b> | <b>446</b> | <b>373</b> | <b>343</b> |
| Dublin (city and county)    | 141           | 148        | 135        | 139        | 135        | 141        | 162        | 184        | 163        | 151        |
| Cork (city and county)      | 22            | 31         | 29         | 37         | 41         | 34         | 37         | 52         | 40         | 42         |
| Limerick (city and county)  | 11            | 15         | 8          | 14         | 12         | 14         | 11         | 18         | 15         | 14         |
| Waterford (city and county) | ~             | 7          | 13         | ~          | 10         | 11         | 7          | 14         | 20         | 9          |
| Tipperary                   | 8             | 9          | 13         | 9          | 11         | 18         | 19         | 11         | 13         | 12         |
| Louth                       | 15            | 11         | 10         | 8          | 10         | 12         | 12         | 15         | 10         | 11         |
| Kildare                     | ~             | 6          | 10         | 12         | ~          | 14         | 12         | 20         | 8          | 8          |
| Wicklow                     | 6             | 12         | 7          | 11         | 9          | 11         | 11         | 15         | 11         | 10         |
| Meath                       | 14            | ~          | 6          | 6          | 12         | 10         | 9          | 14         | 10         | ~          |
| Galway                      | 9             | 8          | 10         | 8          | 6          | 7          | 14         | 14         | 10         | 8          |
| Kerry                       | 11            | 8          | 7          | 11         | ~          | ~          | 8          | 7          | 14         | 11         |
| Clare                       | 13            | ~          | ~          | ~          | 9          | 8          | 10         | ~          | 9          | 7          |
| Donegal                     | 11            | 7          | ~          | 8          | ~          | ~          | 7          | 10         | ~          | ~          |
| Wexford                     | ~             | 6          | ~          | ~          | 8          | 14         | 9          | 11         | 9          | 12         |
| Westmeath                   | 6             | ~          | ~          | ~          | ~          | 9          | ~          | 6          | 6          | 8          |
| Laois                       | 8             | 6          | 7          | ~          | 6          | ~          | 8          | 6          | ~          | ~          |
| Kilkenny                    | 7             | 9          | ~          | ~          | ~          | 8          | ~          | 7          | ~          | ~          |
| Cavan                       | ~             | ~          | ~          | 7          | 6          | 7          | ~          | 7          | ~          | ~          |
| Carlow                      | ~             | ~          | 9          | ~          | ~          | ~          | 6          | ~          | 6          | ~          |
| Offaly                      | ~             | ~          | ~          | ~          | ~          | ~          | 7          | 6          | ~          | 7          |
| Sligo                       | ~             | 6          | ~          | 0          | 7          | ~          | ~          | 8          | ~          | ~          |
| Mayo                        | ~             | ~          | ~          | ~          | ~          | ~          | ~          | ~          | ~          | ~          |
| Longford                    | ~             | ~          | ~          | ~          | ~          | ~          | ~          | ~          | ~          | 0          |
| Monaghan                    | ~             | ~          | ~          | ~          | ~          | ~          | ~          | ~          | ~          | ~          |
| Roscommon                   | ~             | ~          | ~          | ~          | 7          | ~          | ~          | ~          | ~          | ~          |
| Leitrim                     | ~             | 0          | ~          | 0          | ~          | ~          | ~          | ~          | 0          | 0          |
| Ireland unknown             | 0             | 0          | ~          | 0          | 0          | ~          | 0          | 0          | 0          | 0          |

~ Five deaths or fewer

E-Appendix E Characteristics of the deceased and deaths due to alcohol-only poisoning, NDRDI 2013 to 2022

|                                            |   | 2013          | 2014          | 2015          | 2016          | 2017            | 2018          | 2019          | 2020            | 2021            | 2022          |
|--------------------------------------------|---|---------------|---------------|---------------|---------------|-----------------|---------------|---------------|-----------------|-----------------|---------------|
| <b>Number of deaths</b>                    |   | <b>61</b>     | <b>51</b>     | <b>48</b>     | <b>59</b>     | <b>66</b>       | <b>64</b>     | <b>68</b>     | <b>72</b>       | <b>64</b>       | <b>67</b>     |
| Male                                       | n | 49            | 39            | 31            | 45            | 48              | 49            | 50            | 45              | 51              | 47            |
|                                            | % | 80.3          | 76.5          | 64.6          | 76.3          | 72.7            | 76.6          | 73.5          | 62.5            | 79.7            | 70.1          |
| Female                                     | n | 12            | 12            | 17            | 14            | 18              | 15            | 18            | 27              | 13              | 20            |
|                                            | % | 19.7          | 23.5          | 35.4          | 23.7          | 27.3            | 23.4          | 26.5          | 37.5            | 20.3            | 29.9          |
| Median age<br>(range <sup>a</sup> )        |   | 50<br>(25-71) | 49<br>(26-70) | 54<br>(27-68) | 52<br>(33-66) | 48.5<br>(31-71) | 55<br>(28-68) | 53<br>(30-69) | 51.5<br>(31-72) | 56.5<br>(28-75) | 54<br>(31-76) |
| Homelessness <sup>b</sup>                  | n | ~             | ~             | ~             | 7             | ~               | ~             | 7             | 6               | 6               | ~             |
|                                            | % | ~             | ~             | ~             | 12.3          | ~               | ~             | 10.3          | 8.3             | 9.4             | ~             |
| <b>Heath and health behaviours</b>         |   |               |               |               |               |                 |               |               |                 |                 |               |
| History of alcohol dependency              | n | 35            | 22            | 23            | 33            | 40              | 31            | 42            | 48              | 40              | 43            |
|                                            | % | 57.4          | 43.1          | 47.9          | 55.9          | 60.6            | 48.4          | 61.8          | 66.7            | 62.5            | 64.2          |
| History of other drug misuse or dependency | n | 8             | ~             | ~             | ~             | 10              | ~             | 9             | 10              | ~               | 6             |
|                                            | % | 13.1          | ~             | ~             | ~             | 15.2            | ~             | 13.2          | 13.9            | ~               | 9.0           |
| History of mental health issues            | n | 10            | 8             | 6             | 13            | 15              | 10            | 19            | 20              | 10              | 20            |
|                                            | % | 16.4          | 15.7          | 12.5          | 22.0          | 22.7            | 15.6          | 27.9          | 27.8            | 15.6            | 29.9          |
| Ever treated for any substance             | n | 9             | ~             | ~             | 15            | 11              | 8             | 12            | 15              | 6               | 14            |
|                                            | % | 14.8          | ~             | ~             | 25.4          | 16.7            | 12.5          | 17.6          | 20.8            | 9.4             | 20.9          |
| <b>Place of incident</b>                   |   |               |               |               |               |                 |               |               |                 |                 |               |
| Private dwelling                           | n | 54            | 43            | 43            | 41            | 58              | 45            | 54            | 60              | 50              | 55            |
|                                            | % | 88.5          | 84.3          | 89.6          | 69.5          | 87.9            | 70.3          | 79.4          | 83.3            | 78.1            | 82.1          |
| <b>With whom at the time of incident</b>   |   |               |               |               |               |                 |               |               |                 |                 |               |
| Alone                                      | n | 40            | 32            | 24            | 28            | 34              | 30            | 32            | 31              | 31              | 38            |
|                                            | % | 65.6          | 62.7          | 50.0          | 47.5          | 51.5            | 46.9          | 47.1          | 43.1            | 48.4            | 56.7          |

<sup>a</sup> Age range is 5th percentile to 95th percentile (90% of cases are included within this range)

<sup>b</sup> Homelessness is based on the ETHOS Framework definition<sup>11</sup>

~ Five deaths or fewer

## E-Appendix F Characteristics of the deceased and deaths due to alcohol-related poisoning, NDRDI 2013 to 2022

|                                            |   | 2013            | 2014            | 2015            | 2016            | 2017            | 2018              | 2019            | 2020            | 2021              | 2022              |
|--------------------------------------------|---|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-------------------|
| <b>Number of deaths</b>                    |   | <b>144</b>      | <b>122</b>      | <b>116</b>      | <b>150</b>      | <b>138</b>      | <b>140</b>        | <b>161</b>      | <b>161</b>      | <b>162</b>        | <b>132</b>        |
| Male                                       | n | 104             | 91              | 77              | 105             | 98              | 94                | 115             | 105             | 117               | 91                |
|                                            | % | 72.2            | 74.6            | 66.4            | 70.0            | 71.0            | 67.1              | 71.4            | 65.2            | 72.2              | 68.9              |
| Female                                     | n | 40              | 31              | 39              | 45              | 40              | 46                | 46              | 56              | 45                | 41                |
|                                            | % | 27.8            | 25.4            | 33.6            | 30.0            | 29.0            | 32.9              | 28.6            | 34.8            | 27.8              | 31.1              |
|                                            |   |                 |                 |                 |                 |                 |                   |                 |                 |                   |                   |
| Median age (range <sup>a</sup> )           |   | 47<br>(23 - 67) | 43<br>(24 - 70) | 45<br>(24 - 66) | 46<br>(29 - 67) | 47<br>(28 - 67) | 48.5<br>(27 - 68) | 50<br>(26 - 69) | 46<br>(26 - 69) | 49.5<br>(26 - 73) | 49.5<br>(30 - 75) |
|                                            |   |                 |                 |                 |                 |                 |                   |                 |                 |                   |                   |
| Homelessness <sup>b</sup>                  | n | 13              | 11              | 13              | 25              | 19              | 16                | 16              | 18              | 23                | 11                |
|                                            | % | 9.0             | 9.1             | 11.2            | 16.9            | 13.9            | 11.4              | 9.9             | 11.2            | 14.2              | 8.3               |
| <b>Health and health behaviours</b>        |   |                 |                 |                 |                 |                 |                   |                 |                 |                   |                   |
| History of alcohol dependency              | n | 71              | 61              | 55              | 79              | 85              | 67                | 83              | 90              | 83                | 78                |
|                                            | % | 49.3            | 50.0            | 47.4            | 52.7            | 61.6            | 47.9              | 51.6            | 55.9            | 51.2              | 59.1              |
| History of other drug misuse or dependency | n | 51              | 47              | 47              | 65              | 55              | 44                | 67              | 70              | 57                | 39                |
|                                            | % | 35.4            | 38.5            | 40.5            | 43.3            | 39.9            | 31.4              | 41.6            | 43.5            | 35.2              | 29.5              |
| History of mental health issues            | n | 49              | 31              | 43              | 57              | 44              | 46                | 56              | 68              | 55                | 43                |
|                                            | % | 34.0            | 25.4            | 37.1            | 38.0            | 31.9            | 32.9              | 34.8            | 42.2            | 34.0              | 32.6              |
| Ever treated for any substance             | n | 30              | 27              | 24              | 53              | 30              | 24                | 39              | 38              | 32                | 37                |
|                                            | % | 20.8            | 22.1            | 20.7            | 35.3            | 21.7            | 17.1              | 24.2            | 23.6            | 19.8              | 28.0              |
| <b>Place of incident</b>                   |   |                 |                 |                 |                 |                 |                   |                 |                 |                   |                   |
| Private dwelling                           | n | 115             | 99              | 91              | 107             | 110             | 98                | 119             | 125             | 123               | 99                |
|                                            | % | 79.9            | 81.1            | 78.4            | 71.3            | 79.7            | 70.0              | 73.9            | 77.6            | 75.9              | 75.0              |
| <b>With whom at the time of incident</b>   |   |                 |                 |                 |                 |                 |                   |                 |                 |                   |                   |
| Alone                                      | n | 77              | 68              | 54              | 64              | 69              | 72                | 63              | 77              | 74                | 75                |
|                                            | % | 53.5            | 55.7            | 46.6            | 42.7            | 50.0            | 51.4              | 39.1            | 47.8            | 45.7              | 56.8              |

<sup>a</sup> Age range is 5th percentile to 95th percentile (90% of cases are included within this range)

<sup>b</sup> Homelessness is based on the ETHOS Framework definition<sup>11</sup>

### E-Appendix G Most common additional drugs implicated in alcohol-related poisoning deaths, NDRDI 2013 to 2022

|                                                             |   | 2013       | 2014       | 2015       | 2016       | 2017       | 2018       | 2019       | 2020       | 2021       | 2022       |
|-------------------------------------------------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Number of deaths</b>                                     |   | <b>144</b> | <b>122</b> | <b>116</b> | <b>150</b> | <b>138</b> | <b>140</b> | <b>161</b> | <b>161</b> | <b>162</b> | <b>132</b> |
| <b>Most common additional drugs implicated with alcohol</b> |   |            |            |            |            |            |            |            |            |            |            |
| Diazepam                                                    | n | 30         | 30         | 33         | 33         | 22         | 29         | 23         | 22         | 26         | 26         |
|                                                             | % | 20.8       | 24.6       | 28.4       | 22.0       | 15.9       | 20.7       | 14.3       | 13.7       | 16.0       | 19.7       |
| Alprazolam                                                  | n | 12         | 6          | 13         | 18         | 12         | 27         | 20         | 24         | 19         | 19         |
|                                                             | % | 8.3        | 4.9        | 11.2       | 12.0       | 8.7        | 19.3       | 12.4       | 14.9       | 11.7       | 14.4       |
| Cocaine                                                     | n | 6          | 9          | 12         | 13         | 9          | 15         | 17         | 25         | 24         | 14         |
|                                                             | % | 4.2        | 7.4        | 10.3       | 8.7        | 6.5        | 10.7       | 10.6       | 15.5       | 14.8       | 10.6       |
| Methadone                                                   | n | 11         | 19         | 15         | 25         | 15         | 13         | 24         | 19         | 22         | 13         |
|                                                             | % | 7.6        | 15.6       | 12.9       | 16.7       | 10.9       | 9.3        | 14.9       | 11.8       | 13.6       | 9.8        |
| Zopiclone                                                   | n | 18         | 19         | 14         | 24         | 7          | 7          | 19         | 12         | 16         | 12         |
|                                                             | % | 12.5       | 15.6       | 12.1       | 16.0       | 5.1        | 5.0        | 11.8       | 7.5        | 9.9        | 9.1        |
| Heroin                                                      | n | 20         | 22         | 17         | 25         | 20         | 20         | 26         | 23         | 17         | 11         |
|                                                             | % | 13.9       | 18.0       | 14.7       | 16.7       | 14.5       | 14.3       | 16.1       | 14.3       | 10.5       | 8.3        |
| Chlordiazepoxide                                            | n | 8          | ~          | ~          | ~          | 8          | 9          | 6          | 8          | 6          | 7          |
|                                                             | % | 5.6        | ~          | ~          | ~          | 5.8        | 6.4        | 3.7        | 5.0        | 3.7        | 5.3        |
| Olanzapine                                                  | n | 6          | ~          | ~          | 8          | 6          | ~          | 6          | ~          | 6          | 7          |
|                                                             | % | 4.2        | ~          | ~          | 5.3        | 4.3        | ~          | 3.7        | ~          | 3.7        | 5.3        |
| Pregabalin                                                  | n | 0          | ~          | 6          | 16         | 11         | 13         | 14         | 17         | 16         | 7          |
|                                                             | % | 0.0        | ~          | 5.2        | 10.7       | 8.0        | 9.3        | 8.7        | 10.6       | 9.9        | 5.3        |
| Tramadol hydrochloride                                      | n | 9          | ~          | ~          | ~          | 7          | ~          | ~          | 8          | 7          | 7          |
|                                                             | % | 6.3        | ~          | ~          | ~          | 5.1        | ~          | ~          | 5.0        | 4.3        | 5.3        |

a Pregabalin was included in routine postmortem toxicology screening by the State Laboratory from 2013

~ Five deaths or fewer