

**Table S1** Characteristics of the whole Euro-DEN Plus cohort over the 8-year period 2014-2021.

|  | <b>n(%), N=61274</b> |
|--|----------------------|
| <i>Patient sex</i>   |                      |
| Male   | 46993 (76.7)         |
| Female   | 14274 (23.3)         |
| Missing  | 7 (0.0)              |
| <i>Patient age, years</i>                                    |                      |
| Mean [SD]  | 33.2 [10.9]          |
| ≤18  | 3534 (5.8)           |
| 19-34  | 32330 (52.8)         |
| ≥35  | 24812 (40.2)         |
| Missing  | 598 (1.0)            |
| <i>Calendar year of ED presentation occurrence</i>           |                      |
| 2014   | 5444 (8.9)           |
| 2015   | 5265 (8.6)           |
| 2016   | 5324 (8.7)           |
| 2017   | 7914 (12.9)          |
| 2018   | 9901 (16.2)          |
| 2019   | 9785 (16.0)          |
| 2020   | 9343 (15.3)          |
| 2021   | 8298 (13.5)          |
| <i>Drugs reported in ≥5% of ED presentations</i>             |                      |
| Cocaine  | 13359 (21.8)         |
| Cannabis   | 13236 (21.6)         |
| Heroin   | 10987 (17.9)         |
| GHB/GBL  | 7670 (12.5)          |
| Amphetamine  | 6021 (9.8)           |
| MDMA   | 4772 (7.8)           |
| Unknown  | 3406 (5.6)           |
| <i>Ethanol co-ingestion</i>                                  |                      |
| Yes  | 24674 (40.3)         |
| No   | 21226 (34.6)         |
| Missing  | 15374 (25.1)         |
| <i>Clinical features of acute recreational drug toxicity</i> |                      |
| <i>Agitation</i>   |                      |
| Yes  | 16207 (26.5)         |
| No   | 44006 (71.8)         |
| Missing  | 1061 (1.7)           |

|                            |              |
|----------------------------|--------------|
| <i>Anxiety</i>             |              |
| Yes                        | 12358 (20.2) |
| No                         | 47858 (78.1) |
| Missing                    | 1058 (1.7)   |
| <i>Vomiting</i>            |              |
| Yes                        | 5786 (9.4)   |
| No                         | 54392 (88.8) |
| Missing                    | 1096 (1.8)   |
| <i>Seizures</i>            |              |
| Yes                        | 2338 (3.8)   |
| No                         | 57852 (94.4) |
| Missing                    | 1084 (1.8)   |
| <i>Hallucinations</i>      |              |
| Yes                        | 4604 (7.5)   |
| No                         | 55597 (90.7) |
| Missing                    | 1073 (1.8)   |
| <i>Arrhythmias</i>         |              |
| Yes                        | 1151 (1.9)   |
| No                         | 56766 (92.6) |
| Missing                    | 3357 (5.5)   |
| <i>Psychosis</i>           |              |
| Yes                        | 4551 (7.4)   |
| No                         | 55646 (90.8) |
| Missing                    | 1077 (1.8)   |
| <i>Headache</i>            |              |
| Yes                        | 2667 (4.4)   |
| No                         | 57537 (93.9) |
| Missing                    | 1070 (1.8)   |
| <i>Chest pain</i>          |              |
| Yes                        | 5181 (8.5)   |
| No                         | 55006 (89.8) |
| Missing                    | 1087 (1.8)   |
| <i>Cerebellar features</i> |              |
| Yes                        | 1082 (1.8)   |
| No                         | 31712 (51.8) |
| Missing                    | 28480 (46.5) |
| <i>Palpitations</i>        |              |
| Yes                        | 5280 (8.6)   |
| No                         | 54918 (89.6) |

|                                      |              |
|--------------------------------------|--------------|
| Missing                              | 1076 (1.8)   |
| <i>Final disposition from the ED</i> |              |
| Medical discharge                    | 37306 (60.9) |
| Self-discharge                       | 8653 (14.1)  |
| Admission to critical care           | 3448 (5.6)   |
| Admission to other hospital wards    | 8122 (13.3)  |
| Admission to a psychiatric ward      | 3242 (5.3)   |
| Death                                | 84 (0.1)     |
| Unknown                              | 419 (0.7)    |

*Abbreviations:* ED, emergency department; SD, standard deviation; GHB/GBL, gamma-hydroxybutyrate/gamma-butyrolactone; MDMA, 3,4-methylenedioxymethamphetamine