Mental health conditions and addictions service access and/or treatment data definition

The purpose of this mental health conditions and addictions service access and/or treatment data definition is to identify all this mental health conditions and addictions related interactions for individuals from the data sources available within the IDI.

This definition has been peer-reviewed by Ministry of Health, and is being made publicly available for use by analysts to easily define cohorts or populations that have had interactions with mental health-related services.

The diagnosis categories provided by this definition are not exhaustive, and should be treated as simple high-level inferences made from the IDI data. These should not be treated as definitive medical diagnoses information.

Table 1 shows the datasets used to identify people who access MHA services and/or treatments, and the number of records in each table for the 2014 calendar year.

Note a person can be counted in multiple data sources. For example, a person may have seen a mental health specialist and appeared in PRIMHD and also collected a pharmaceuticals prescription.

**Table 1:** Datasets used to identify population groups who access MHA services and number of people identified in 2014

|  |  |  |
| --- | --- | --- |
| IDI dataset | Indicator of MHA service use | Number of people in 2014 |
| PRIMHD | Any record in PRIMHD | 159,630 |
| Pharmaceutical dispensing data | Pharmaceuticals deemed to be MHA-related (excluding potential MHA category) | 532,998 |
| NMDS (publically funded discharges only) | Any hospitalisation event with an associated MHA diagnosis | 133,941 |
| MSD Incapacity data | Any record with an MHA-related medical certificate for benefit support | 41,568 |

These figures can be used as a sense check for analysts working on building their own MHA dataset for analysis. Please note that these numbers are based on the IDI refresh as on 20 October 2016. The population includes only those individuals who are linked to the IDI spine, and are part of the estimated resident population as on 01 Jan 2014.

Table 2 gives the codes used to identify people who access MHA services and/or treatments in each of the datasets in Table 1.

**Table 2:** Derivation of mental health indicator and diagnosis

| Diagnosis | PRIMHD | Pharmaceuticals | NMDS – publicly funded hospital discharges | MSD incapacity |
| --- | --- | --- | --- | --- |
| ADHD |  | Chemical ID = 3887, 1809, 3880 | ICD10 diagnosis code = F900 and/or ICD 9 CM diagnosis code = 31400, 31401 and/or ICD 9 diagnosis code = 3140 |  |
| Anxiety |  | Chemical ID = 1166, 6006, 1780 | ICD-10-AM diagnosis code = F400 - F48 and/or ICD 9 CM-A diagnosis code = 30000-30015, 30020 - 3003, 3005 - 3009, 3060 - 30650, 30652 - 3069, 30780, 30789, 3080 - 3091, 30922 - 30982, 30989, 3099 and/or ICD 9 diagnosis code = 3000-3003, 3005-3009, 306,3078, 3080-3094, 3099 |  |
| Autism |  |  | ICD10 diagnosis code = F840, F841, F842, F843, F844, F845, F848, F849 and/or ICD 9 CM diagnosis code = 29900, 29901, 29910 and/or ICD 9 diagnosis code = 2990, 2991 |  |
| Dementia |  | Chemical ID = 3923, 3750 | ICD10 diagnosis code = F000 - F03, G30 and/or ICD 9 CM diagnosis code = 2900 - 2909, 2941, 3310 and/or ICD 9 diagnosis code = 290, 2941, 3310 |  |
| Eating disorder | Team type = 16 |  | ICD 10 diagnosis code = F500 - F509 and/or ICD 9 CM diagnosis code = 3071, 30750, 30751, 30754, 30759 and/or ICD 9 diagnosis code = 3071, 3075 |  |
| Mood |  | Chemical ID = 1069, 1437, 1438, 2466, 824, 3753, 3901, 1125, 1955, 2285, 2301, 6009, 2636 | ICD-10\_AM diagnosis code= F30 - F39 and/or ICD 9 CM(A) diagnosis code = 296, 3004, 30113, 311 and/or ICD 9 diagnosis code = 296, 3004, 311 |  |
| Mood anxiety |  | Same codes as for Anxiety or Mood and/or Chemical ID = 2632, 1193, 3926, 1760, 2638, 3927, 1030, 1180, 3785 | Same codes as for Anxiety or Mood |  |
| Other MH | All remaining records (where Activity type ≠ T09, T16, T17, T18, T19, T20 and/or Team type ≠ 03, 10, 11, 12, 16, 21, 23) | Not otherwise diagnosed in this table and Chemical ID = 1080, 1729, 1731, 2295, 2484 | Not otherwise diagnosed in this table and any other the following: ICD10 diagnosis code = F04 - F09, F510 - F53, F59, F630 - F639, F680 - F69, F930 - F932, F99 and/or ICD 9 CM diagnosis code = 2930 - 2940, 2948, 2949, 29911 - 29991, 30016, 30019, 30151 , 30270 - 30279, 30651, 3074, 30921, 310, 3123, 3130, 3131 and/or ICD 9 diagnosis code = 2930-2940, 2948, 2949, 2998, 2999, 3027, 3074, 310, 3123, 3130, 3131 | Incapacity code = 009, 160, 163, 165 |
| Personality |  |  | ICD10 diagnosis code = F600, F601, F602, F6030, F6031, F604, F605, F606, F607, F608, F609, F61, F620, F621, F628, F629 and/or ICD 9 CM diagnosis code = 3010, 30110, 30111, 30112, 30120, 30121, 30122, 3013, 3014, 30150, 30159, 3016, 3017, 30181, 30182, 30183, 30184, 30189, 3019 and/or ICD 9 diagnosis code = 3010,3012-3019 |  |
| Schizophrenia and related psychotic conditions (Psychotic) | Activity type = T09 | Chemical ID = 3884, 3878, 1078, 1532, 2820, 1732, 1990, 1994, 2255, 2260 | ICD-10-AM diagnosis code = F20-F29 and/or ICD 9 CM diagnosis code = 295, 297, 298 and/or ICD 9 diagnosis code = 295, 297, 298 | Incapacity code = 161, 162 |
| Intellectual disability | Team type = 12 |  | ICD 10: F70 - F79 and/or ICD 9 CMA, 9 : 317 - 319 and/or ICD 8: 310 - 315 and/or Health Specialty Codes: D60-D74 | Incapacity code = 008, 164 |
| Substance use | Team type = 03, 10, 11, 21, 23 and/or Activity type = T16, T17, T18, T19, T20 | Chemical ID = 2367, 1432, 3793 | ICD10 diagnosis code = F10, F11, F12, F13, F14, F15, F16, F18, F19 and/or ICD 9 CM diagnosis code = 291 - 2929, 30300 - 30503, 30520 - 30593 and/or ICD 9 diagnosis code = 291, 292, 303,304,3050, 3052-3059 | Incapacity code = 006, 007, 170, 171, 172 |
| Potential MHA |  | Chemical ID = 1389, 4037, 1059, 1379, 1876, 1190, 1316, 1397, 1730, 6007, 1283, 2298, 2530, 3803, 3898, 8792, 1273, 1865, 1956, 2224, 2539, 3248, 1583, 1799, 3940, 4025, 3722, 3892, 3920, 3950, 1795, 1007, 1013, 1111, 1226, 1252, 1578, 1841, 2436, 3735, 3935, 1002, 1217, 2166 |  |  |

Analysts are advised to use all categories for general purpose analysis of the whole population, excluding the potential MHA category. This category (or a specific subset of this category) should only be used if the analysts have a specific purpose which requires them and are clear about the reasons for the inclusion of this category in the analysis. They are included in the code to make them easily accessible.

The SIU excludes this category to count MHA service use and/or treatments.

Table 3 shows the chemical names and type.

**Table 3:** Chemical ID names and types

| CHEMICAL\_ID | CHEMICAL\_NAME | Type |
| --- | --- | --- |
| 1011 | Risperidone | Antipsychotics |
| 1030 | Sertraline Hydrochloride | Antidepressants |
| 1069 | Amoxapine | Antidepressants |
| 1078 | Clozapine | Antipsychotics |
| 1080 | Amylobarbitone sodium | Sedatives and Hypnotics |
| 1125 | Nefazodone | Antidepressants |
| 1140 | Olanzapine | Antipsychotics |
| 1166 | Bromazepam | Anxiolytics |
| 1180 | Venlafaxine | Antidepressants |
| 1183 | Quetiapine | Antipsychotics |
| 1183 | Quetiapine Fumarate | Antipsychotics |
| 1193 | Citalopram hydrobromide | Antidepressants |
| 1315 | Clomipramine hydrochloride | Antidepressants |
| 1432 | Disulfiram | Treatments for Substance Dependence |
| 1437 | Dothiepin hydrochloride | Antidepressants |
| 1438 | Doxepin hydrochloride | Antidepressants |
| 1532 | Flupenthixol decanoate | Antipsychotics |
| 1533 | Fluphenazine decanoate | Antipsychotics |
| 1535 | Fluphenazine hydrochloride | Antipsychotics |
| 1642 | Imipramine hydrochloride | Antidepressants |
| 1729 | Loprazolam mesylate | Sedatives and Hypnotics |
| 1731 | Lormetazepam | Sedatives and Hypnotics |
| 1732 | Loxapine succinate | Antipsychotics |
| 1760 | Maprotiline hydrochloride | Antidepressants |
| 1780 | Meprobamate | Anxiolytics |
| 1809 | Methylphenidate hydrochloride | Stimulants/ADHD Treatments |
| 1824 | Mianserin hydrochloride | Antidepressants |
| 1911 | Oxazepam | Anxiolytics |
| 1950 | Pericyazine | Antipsychotics |
| 1955 | Phenelzine sulphate | Antidepressants |
| 1990 | Pimozide | Antipsychotics |
| 1994 | Pipothiazine palmitate | Antipsychotics |
| 2255 | Thioridazine hydrochloride | Antipsychotics |
| 2260 | Thiothixene | Antipsychotics |
| 2285 | Tranylcypromine sulphate | Antidepressants |
| 2295 | Triazolam | Sedatives and Hypnotics |
| 2301 | Trimipramine maleate | Antidepressants |
| 2367 | Calcium carbimide | Stimulants/ADHD Treatments |
| 2466 | Lithium carbonate | Antipsychotics |
| 2484 | Zopiclone | Sedatives and Hypnotics |
| 2632 | Alprazolam | Anxiolytics |
| 2636 | Fluoxetine hydrochloride | Antidepressants |
| 2638 | Moclobemide | Antidepressants |
| 2820 | Fluspirilene | Antipsychotics |
| 3750 | Rivastigmine | Stimulants/ADHD Treatments |
| 3753 | Mirtazapine | Antidepressants |
| 3785 | Venlafaxine | Antidepressants |
| 3793 | Naltrexone hydrochloride | Treatments for Substance Dependence |
| 3873 | Ziprasidone | Antipsychotics |
| 3878 | Aripiprazole | Antipsychotics |
| 3880 | Methylphenidate hydrochloride extended-release | Stimulants/ADHD Treatments |
| 3884 | Amisulpride | Antipsychotics |
| 3887 | Atomoxetine | Stimulants/ADHD Treatments |
| 3901 | Mirtazapine | Antidepressants |
| 3923 | Donepezil hydrochloride | Treatments for Dementia |
| 3926 | Escitalopram | Antidepressants |
| 3927 | Sertraline | Antidepressants |
| 6006 | Buspirone hydrochloride | Anxiolytics |
| 6009 | Paroxetine hydrochloride | Antidepressants |
| 1389 | Dexamfetamine sulfate | TBC, not used in SIU general MHA analysis |
| 4037 | Rivastigmine | TBC, not used in SIU general MHA analysis |
| 1059 | Amitriptyline | TBC, not used in SIU general MHA analysis |
| 1379 | Desipramine hydrochloride | TBC, not used in SIU general MHA analysis |
| 1876 | Nortriptyline hydrochloride | TBC, not used in SIU general MHA analysis |
| 1190 | Citalopram hydrobromide (Celapram) | TBC, not used in SIU general MHA analysis |
| 1316 | Clonazepam | TBC, not used in SIU general MHA analysis |
| 1397 | Diazepam | TBC, not used in SIU general MHA analysis |
| 1730 | Lorazepam | TBC, not used in SIU general MHA analysis |
| 6007 | Chlordiazepoxide hydrochloride | TBC, not used in SIU general MHA analysis |
| 1283 | Chlorpromazine hydrochloride | TBC, not used in SIU general MHA analysis |
| 2298 | Trifluoperazine hydrochloride | TBC, not used in SIU general MHA analysis |
| 2530 | Haloperidol decanoate | TBC, not used in SIU general MHA analysis |
| 3803 | Zuclopenthixol decanoate | TBC, not used in SIU general MHA analysis |
| 3898 | Zuclopenthixol hydrochloride | TBC, not used in SIU general MHA analysis |
| 8792 | Droperidol | TBC, not used in SIU general MHA analysis |
| 1273 | Chlormethiazole edisylate | TBC, not used in SIU general MHA analysis |
| 1865 | Nitrazepam | TBC, not used in SIU general MHA analysis |
| 1956 | Phenobarbitone sodium | TBC, not used in SIU general MHA analysis |
| 2224 | Temazepam | TBC, not used in SIU general MHA analysis |
| 2539 | Midazolam | TBC, not used in SIU general MHA analysis |
| 3248 | Chloral hydrate | TBC, not used in SIU general MHA analysis |
| 1583 | Haloperidol | TBC, not used in SIU general MHA analysis |
| 1799 | Levomepromazine maleate | TBC, not used in SIU general MHA analysis |
| 3940 | Olanzapine pamoate monohydrate | TBC, not used in SIU general MHA analysis |
| 4025 | Paliperidone | TBC, not used in SIU general MHA analysis |
| 3722 | Nicotine | TBC, not used in SIU general MHA analysis |
| 3892 | Bupropion hydrochloride | TBC, not used in SIU general MHA analysis |
| 3920 | Varenicline tartrate | TBC, not used in SIU general MHA analysis |
| 3950 | Buprenorphine with naloxone | TBC, not used in SIU general MHA analysis |
| 1795 | Methadone hydrochloride | TBC, not used in SIU general MHA analysis |
| 1007 | Sulpiride | TBC, not used in SIU general MHA analysis |
| 1013 | Guanethidine sulphate | TBC, not used in SIU general MHA analysis |
| 1111 | Dexfenfluramine | TBC, not used in SIU general MHA analysis |
| 1226 | Zuclopenthixol dihydrochloride | TBC, not used in SIU general MHA analysis |
| 1252 | Naltrexone hydrochloride | TBC, not used in SIU general MHA analysis |
| 1578 | Glycopyrronium Bromide | TBC, not used in SIU general MHA analysis |
| 1841 | Naloxone hydrochloride | TBC, not used in SIU general MHA analysis |
| 2436 | Flunitrazepam | TBC, not used in SIU general MHA analysis |
| 3735 | Melatonin | TBC, not used in SIU general MHA analysis |
| 3935 | Modafinil | TBC, not used in SIU general MHA analysis |
| 1002 | Lamotrigine | TBC, not used in SIU general MHA analysis |
| 1217 | Carbamazepine | TBC, not used in SIU general MHA analysis |
| 2166 | Sodium valproate | TBC, not used in SIU general MHA analysis |