# Supplementary Table 2 – Cluster Descriptions (ICD + Term)

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| Cluster | # Rows | Top 5 ICD-10 Codes with Semantic Terms |
| F0 (female) | 187 | • F603 (30): borderline\_personality\_disorder • F1210 (25): suicidal\_ideations • R45851 (24): personality\_disorder,\_unspecified • F609 (22): cannabis\_abuse,\_uncomplicated • F17210 (22): major\_depressive\_disorder,\_single\_episode,\_unspecified |
| F1 (female) | 310 | • F17210 (96): nicotine\_dependence,\_cigarettes,\_uncomplicated • F1210 (92): cannabis\_abuse,\_uncomplicated • F603 (35): borderline\_personality\_disorder • F1220 (33): conduct\_disorder,\_unspecified • F919 (30): cannabis\_use,\_unspecified,\_uncomplicated |
| F2 (female) | 322 | • F1210 (65): borderline\_personality\_disorder • F603 (60): cannabis\_abuse,\_uncomplicated • F17210 (54): nicotine\_dependence,\_cigarettes,\_uncomplicated • F1220 (33): personality\_disorder,\_unspecified • F609 (32): alcohol\_abuse,\_uncomplicated |
| F3 (female) | 296 | • F603 (49): adjustment\_disorder\_with\_mixed\_disturbance\_of\_emotions\_and\_conduct • F4325 (48): borderline\_personality\_disorder • R45851 (40): suicidal\_ideations • F1210 (27): major\_depressive\_disorder,\_single\_episode,\_unspecified • F17210 (23): oppositional\_defiant\_disorder |
| F4 (female) | 378 | • F17210 (104): nicotine\_dependence,\_cigarettes,\_uncomplicated • F1210 (92): cannabis\_abuse,\_uncomplicated • F603 (65): borderline\_personality\_disorder • F609 (37): personality\_disorder,\_unspecified • F919 (33): conduct\_disorder,\_unspecified |
| F5 (female) | 161 | • F603 (26): borderline\_personality\_disorder • F1210 (25): suicidal\_ideations • R45851 (19): cannabis\_abuse,\_uncomplicated • F17210 (18): conduct\_disorder,\_adolescent-onset\_type • F912 (15): nicotine\_dependence,\_unspecified,\_uncomplicated |
| F6 (female) | 210 | • F1210 (45): cannabis\_abuse,\_uncomplicated • F17210 (33): nicotine\_dependence,\_cigarettes,\_uncomplicated • F1220 (26): borderline\_personality\_disorder • F603 (23): cannabis\_dependence,\_uncomplicated • F1290 (14): cannabis\_abuse\_with\_psychotic\_disorder,\_unspecified |
| F7 (female) | 170 | • F23 (49): brief\_psychotic\_disorder • F1210 (36): unspecified\_mood\_[affective]\_disorder • F17210 (33): mild\_intellectual\_disabilities • F39 (30): cannabis\_abuse,\_uncomplicated • F70 (25): nicotine\_dependence,\_cigarettes,\_uncomplicated |
| F8 (female) | 246 | • F1210 (51): cannabis\_abuse,\_uncomplicated • F17210 (40): nicotine\_dependence,\_cigarettes,\_uncomplicated • F603 (30): borderline\_personality\_disorder • F919 (26): conduct\_disorder,\_unspecified • F4325 (23): adjustment\_disorder\_with\_mixed\_disturbance\_of\_emotions\_and\_conduct |
| F9 (female) | 102 | • F29 (91): unspecified\_psychosis\_not\_due\_to\_a\_substance\_or\_known\_physiological\_condition • F1210 (28): cannabis\_abuse,\_uncomplicated • F17210 (18): nicotine\_dependence,\_cigarettes,\_uncomplicated • F1220 (12): cannabis\_dependence,\_uncomplicated • F17200 (7): deficiency\_of\_other\_specified\_b\_group\_vitamins |
| M0 (male) | 164 | • F1210 (40): cannabis\_abuse,\_uncomplicated • F1010 (19): alcohol\_abuse,\_uncomplicated • F17210 (17): conduct\_disorder,\_unspecified • F919 (16): ADHD • F1220 (13): nicotine\_dependence,\_cigarettes,\_uncomplicated |
| M1 (male) | 316 | • F1210 (68): cannabis\_abuse,\_uncomplicated • F17210 (39): nicotine\_dependence,\_cigarettes,\_uncomplicated • F1220 (29): conduct\_disorder,\_unspecified • F919 (26): cannabis\_dependence,\_uncomplicated • F12159 (24): cannabis\_abuse\_with\_psychotic\_disorder,\_unspecified |
| M2 (male) | 334 | • F1210 (73): nicotine\_dependence,\_cigarettes,\_uncomplicated • F17210 (68): cannabis\_abuse,\_uncomplicated • F1220 (36): conduct\_disorder,\_unspecified • F919 (34): cannabis\_dependence,\_uncomplicated • F1290 (27): alcohol\_abuse,\_uncomplicated |
| M3 (male) | 243 | • F1210 (31): nicotine\_dependence,\_cigarettes,\_uncomplicated • F17210 (31): conduct\_disorder,\_unspecified • F919 (26): cannabis\_abuse,\_uncomplicated • F17200 (18): conduct\_disorder,\_adolescent-onset\_type • F912 (18): ADHD |
| M4 (male) | 271 | • F1210 (61): cannabis\_abuse,\_uncomplicated • F17210 (45): nicotine\_dependence,\_cigarettes,\_uncomplicated • F1010 (30): alcohol\_abuse,\_uncomplicated • F1220 (27): cannabis\_dependence,\_uncomplicated • F919 (19): other\_conduct\_disorders |
| M5 (male) | 284 | • F23 (163): brief\_psychotic\_disorder • F1210 (81): cannabis\_abuse,\_uncomplicated • F17210 (47): nicotine\_dependence,\_cigarettes,\_uncomplicated • F1220 (40): cannabis\_dependence,\_uncomplicated • F70 (25): mild\_intellectual\_disabilities |
| M6 (male) | 304 | • F1210 (80): cannabis\_abuse,\_uncomplicated • F17210 (74): nicotine\_dependence,\_cigarettes,\_uncomplicated • F1220 (34): cannabis\_dependence,\_uncomplicated • Z818 (27): family\_history\_of\_other\_mental\_and\_behavioral\_disorders • F919 (27): conduct\_disorder,\_unspecified |
| M7 (male) | 239 | • F29 (222): unspecified\_psychosis\_not\_due\_to\_a\_substance\_or\_known\_physiological\_condition • F1210 (87): cannabis\_abuse,\_uncomplicated • F1220 (33): cannabis\_dependence,\_uncomplicated • F17210 (26): cannabis\_use,\_unspecified,\_uncomplicated • F1290 (22): nicotine\_dependence,\_cigarettes,\_uncomplicated |
| M8 (male) | 221 | • F1210 (40): cannabis\_abuse,\_uncomplicated • F17210 (23): unspecified\_psychosis\_not\_due\_to\_a\_substance\_or\_known\_physiological\_condition • F29 (23): nicotine\_dependence,\_cigarettes,\_uncomplicated • F919 (20): conduct\_disorder,\_unspecified • F1220 (17): conduct\_disorder,\_adolescent-onset\_type |
| M9 (male) | 91 | • F12159 (18): cannabis\_abuse\_with\_psychotic\_disorder,\_unspecified • F12259 (12): cannabis\_dependence\_with\_psychotic\_disorder,\_unspecified • F12959 (10): cannabis\_use,\_unspecified\_with\_psychotic\_disorder,\_unspecified • F12151 (7): cannabis\_abuse\_with\_psychotic\_disorder\_with\_hallucinations • F12150 (6): cannabis\_abuse\_with\_psychotic\_disorder\_with\_delusions |