# Supplementary Table 2 – Cluster Descriptions

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| Cluster | # Rows | Top 5 ICD-10 Codes (frequency) | Dominant Semantic Terms (top 5) |
| F0 (female) | 187 | 1. F603 (30) 2. F1210 (25) 3. R45851 (24) 4. F609 (22) 5. F17210 (22) | • borderline\_personality\_disorder • suicidal\_ideations • personality\_disorder,\_unspecified • cannabis\_abuse,\_uncomplicated • major\_depressive\_disorder,\_single\_episode,\_unspecified |
| F1 (female) | 310 | 1. F17210 (96) 2. F1210 (92) 3. F603 (35) 4. F1220 (33) 5. F919 (30) | • nicotine\_dependence,\_cigarettes,\_uncomplicated • cannabis\_abuse,\_uncomplicated • borderline\_personality\_disorder • conduct\_disorder,\_unspecified • cannabis\_use,\_unspecified,\_uncomplicated |
| F2 (female) | 322 | 1. F1210 (65) 2. F603 (60) 3. F17210 (54) 4. F1220 (33) 5. F609 (32) | • borderline\_personality\_disorder • cannabis\_abuse,\_uncomplicated • nicotine\_dependence,\_cigarettes,\_uncomplicated • personality\_disorder,\_unspecified • alcohol\_abuse,\_uncomplicated |
| F3 (female) | 296 | 1. F603 (49) 2. F4325 (48) 3. R45851 (40) 4. F1210 (27) 5. F17210 (23) | • adjustment\_disorder • borderline\_personality\_disorder • suicidal\_ideations • major\_depressive\_disorder • oppositional\_defiant\_disorder |
| F4 (female) | 378 | 1. F17210 (104) 2. F1210 (92) 3. F603 (65) 4. F609 (37) 5. F919 (33) | • nicotine\_dependence • cannabis\_abuse • borderline\_personality\_disorder • personality\_disorder • conduct\_disorder |
| F5 (female) | 161 | 1. F603 (26) 2. F1210 (25) 3. R45851 (19) 4. F17210 (18) 5. F912 (15) | • borderline\_personality\_disorder • suicidal\_ideations • cannabis\_abuse • conduct\_disorder\_adolescent • nicotine\_dependence\_unspecified |
| F6 (female) | 210 | 1. F1210 (45) 2. F17210 (33) 3. F1220 (26) 4. F603 (23) 5. F1290 (14) | • cannabis\_abuse • nicotine\_dependence • borderline\_personality\_disorder • cannabis\_dependence • cannabis\_abuse\_with\_psychosis |
| F7 (female) | 170 | 1. F23 (49) 2. F1210 (36) 3. F17210 (33) 4. F39 (30) 5. F70 (25) | • brief\_psychotic\_disorder • mood\_disorder • intellectual\_disabilities • cannabis\_abuse • nicotine\_dependence |
| F8 (female) | 246 | 1. F1210 (51) 2. F17210 (40) 3. F603 (30) 4. F919 (26) 5. F4325 (23) | • cannabis\_abuse • nicotine\_dependence • borderline\_personality\_disorder • conduct\_disorder • adjustment\_disorder |
| F9 (female) | 102 | 1. F29 (91) 2. F1210 (28) 3. F17210 (18) 4. F1220 (12) 5. F17200 (7) | • psychosis • cannabis\_abuse • nicotine\_dependence • cannabis\_dependence • vitamin\_deficiency |
| M0 (male) | 164 | 1. F1210 (40) 2. F1010 (19) 3. F17210 (17) 4. F919 (16) 5. F1220 (13) | • cannabis\_abuse • alcohol\_abuse • conduct\_disorder • ADHD • nicotine\_dependence |
| M1 (male) | 316 | 1. F1210 (68) 2. F17210 (39) 3. F1220 (29) 4. F919 (26) 5. F12159 (24) | • cannabis\_abuse • nicotine\_dependence • conduct\_disorder • cannabis\_dependence • cannabis\_psychosis |
| M2 (male) | 334 | 1. F1210 (73) 2. F17210 (68) 3. F1220 (36) 4. F919 (34) 5. F1290 (27) | • nicotine\_dependence • cannabis\_abuse • conduct\_disorder • cannabis\_dependence • alcohol\_abuse |
| M3 (male) | 243 | 1. F1210 (31) 2. F17210 (31) 3. F919 (26) 4. F17200 (18) 5. F912 (18) | • nicotine\_dependence • conduct\_disorder • cannabis\_abuse • ADHD |
| M4 (male) | 271 | 1. F1210 (61) 2. F17210 (45) 3. F1010 (30) 4. F1220 (27) 5. F919 (19) | • cannabis\_abuse • nicotine\_dependence • alcohol\_abuse • cannabis\_dependence • conduct\_disorder |
| M5 (male) | 284 | 1. F23 (163) 2. F1210 (81) 3. F17210 (47) 4. F1220 (40) 5. F70 (25) | • brief\_psychotic\_disorder • cannabis\_abuse • nicotine\_dependence • cannabis\_dependence • intellectual\_disability |
| M6 (male) | 304 | 1. F1210 (80) 2. F17210 (74) 3. F1220 (34) 4. Z818 (27) 5. F919 (27) | • cannabis\_abuse • nicotine\_dependence • cannabis\_dependence • family\_history • conduct\_disorder |
| M7 (male) | 239 | 1. F29 (222) 2. F1210 (87) 3. F1220 (33) 4. F17210 (26) 5. F1290 (22) | • psychosis • cannabis\_abuse • cannabis\_dependence • cannabis\_use\_unspecified • nicotine\_dependence |
| M8 (male) | 221 | 1. F1210 (40) 2. F17210 (23) 3. F29 (23) 4. F919 (20) 5. F1220 (17) | • cannabis\_abuse • psychosis • nicotine\_dependence • conduct\_disorder |
| M9 (male) | 91 | 1. F12159 (18) 2. F12259 (12) 3. F12959 (10) 4. F12151 (7) 5. F12150 (6) | • cannabis\_psychosis • cannabis\_dependence\_psychosis • cannabis\_hallucinations • cannabis\_delusions |