

# Healthcare use by people who use illicit opioids (HUPIO): development of a cohort based on electronic primary care records in England

## Extended Data

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# 1 Search terms used to identify codes that may represent a history of illicit opioid use

We used the following search terms to identify codes in Read (for Gold) and SNOMED (for AURUM) that may indicate a history of illicit opioid use.

| Population                                                  | Dictionary | Search category         | Search term (anywhere in string)                                                                                                                                                                                                                                        |
|-------------------------------------------------------------|------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Patients prescribed methadone                               | Product    | Drug substance name     | methadone                                                                                                                                                                                                                                                               |
|                                                             |            | Product name            | amidone, dolophine, eptadone, heptadon, metado, methadone, methadose, methex, methodex, physeptone, pinadone, symoron                                                                                                                                                   |
| Patients prescribed buprenorphine                           | Product    | Drug substance name     | buprenorphine                                                                                                                                                                                                                                                           |
|                                                             |            | Product name            | bunavail, buplast, bupramyl, buprenorphine, busiete, butec, butrans, cizdol, espranor, gabup, hapoctasin, natzon, panitaz, prefibin, prenotrix, probuphine, reletrans, relevtec, sevodyne, sublocade, suboxone, subutex, temgesic, trephine, transtec, turgeon, zubsolv |
| People who use illicit opioids or misuse prescribed opioids | Medical    | Read Term / SNOMED Term | abus, addict, buprenorphine, dependen, drug user, heroin, inject, methadone, misus, opiate, opiate substitution, opioid, overdose                                                                                                                                       |

## 2 Codelist for identifying people with a history of illicit opioid use

Column descriptions:

1. Database: A = CPRD AURUM; G = CPRD GOLD
2. Medcode: The internal CPRD code
3. ReadCode / SNOMED: For Aurum, SNOMED CT Concept ID's are provided; for GOLD; Read Codes are provided. Codes have the prefix 'x' to prevent these codes from being read as numeric values by software packages (which can lead to them changing).
4. Type: Pr = prodcode (prescription); Me = Medcode (clinical code)
5. Term: Description of code
6. Meth / bupe: m = methadone; b = buprenorphine
7. Status: Def = definite history of illicit opioid use; Prob = probable history of illicit opioid use; Ex = excluded from phenotype.
8. Number in database: unique patients in full database with the code recorded at any time.
9. Number in cohort: unique patients in the cohort of patients with a history of illicit opioid use with the code recorded at any time
10. Dropped: unique patients with the code that are not included in the cohort of patients with a history of illicit opioid use
11. % dropped: % of patients with the code that are not included in the cohort of patients with a history of illicit opioid use (i.e. the % that do not have another code included in the phenotype). Some percentages are rounded to the nearest 10% to avoid disclosure of small cell counts.
12. Median age: median age of all unique patients with the code (base = 'number in database'), at age when code was first recorded
13. % Male: % of unique patients with the code (base = 'number in database') that are male

| Data-base | Medcode            | ReadCode / SNOMED | Type | Term                                                                         | Meth / bupe | Status | Number in database | Number in cohort | Dropped | % dropped | Median age (IQR) | % Male |
|-----------|--------------------|-------------------|------|------------------------------------------------------------------------------|-------------|--------|--------------------|------------------|---------|-----------|------------------|--------|
| A         | x2052541000033112  | -                 | Pr   | Methadone Hydrochloride Diluent Oral Solution Sugar Free                     | m           | Def    | 95                 | 90-100           | 0-10    | 0%        | 36.0 (32.1-44.6) | 67%    |
| A         | x167441000033112   | -                 | Pr   | Buprenorphine Injection 300 micrograms                                       | b           | Ex     | <50                | <50              | <50     | 90%       | 54.4             | 33%    |
| A         | x885741000033117   | -                 | Pr   | Methadone Hydrochloride Injection 10mg/ml                                    | m           | Ex     | 139                | 110-120          | 20-30   | 20%       | 33.4 (29.2-42.3) | 69%    |
| A         | x1419141000033111  | -                 | Pr   | Temgesic Injection 300 micrograms                                            | b           | Ex     | -                  | -                | -       | -         | -                | -      |
| A         | x2128441000033117  | -                 | Pr   | Methex Oral solution 1 mg/ml                                                 | m           | Ex     | -                  | -                | -       | -         | -                | -      |
| A         | x1073941000033113  | -                 | Pr   | Physeptone Injection 10mg/ml                                                 | m           | Ex     | <50                | <50              | <50     | 10%       | 30.6             | 75%    |
| A         | x1075041000033111  | -                 | Pr   | Physeptone Linctus 2 mg/5 ml                                                 | m           | Ex     | <50                | <50              | <50     | 70%       | 72.2             | 40%    |
| A         | x2267741000033115  | -                 | Pr   | Methadone Hydrochloride Oral Solution, Sugar Free, Tartrazine Free 1 mg/1 ml | m           | Def    | 1069               | 1050-1060        | 10-20   | 0%        | 34.8 (28.9-42.4) | 69%    |
| A         | x6527441000033112  | -                 | Pr   | Prefibin 0.4mg sublingual tablets (Sandoz Ltd)                               | b           | Ex     | -                  | -                | -       | -         | -                | -      |
| A         | x6527741000033117  | -                 | Pr   | Tephine 400microgram sublingual tablets (Sandoz Ltd)                         | b           | Ex     | <50                | <50              | <50     | 0%        | 39.6             | 100%   |
| A         | x10045741000033116 | -                 | Pr   | Gabup 0.4mg sublingual tablets (Martindale Pharmaceuticals Ltd)              | b           | Ex     | -                  | -                | -       | -         | -                | -      |
| A         | x174241000033111   | -                 | Pr   | Buprenorphine 400microgram sublingual tablets sugar free                     | b           | Def    | 8104               | 6855             | 1249    | 15%       | 44.2 (35.1-57.0) | 58%    |
| A         | x1428641000033115  | -                 | Pr   | Temgesic 400microgram sublingual tablets (Indivior UK Ltd)                   | b           | Ex     | 1737               | 298              | 1439    | 83%       | 53.6 (42.4-65.5) | 47%    |
| A         | x1835541000033116  | -                 | Pr   | Subutex 0.4mg sublingual tablets (Indivior UK Ltd)                           | b           | Def    | 1755               | 1720-1730        | 30-40   | 0%        | 35.0 (29.3-40.8) | 74%    |
| A         | x10045841000033114 | -                 | Pr   | Gabup 2mg sublingual tablets (Martindale Pharmaceuticals Ltd)                | b           | Ex     | -                  | -                | -       | -         | -                | -      |
| A         | x6527141000033116  | -                 | Pr   | Prefibin 2mg sublingual tablets (Sandoz Ltd)                                 | b           | Ex     | <50                | <50              | <50     | 0%        | 44.6             | 0%     |
| A         | x1835641000033115  | -                 | Pr   | Subutex 2mg sublingual tablets (Indivior UK Ltd)                             | b           | Def    | 4714               | 4654             | 60      | 1%        | 33.4 (27.9-40.0) | 75%    |
| A         | x1835341000033111  | -                 | Pr   | Buprenorphine 2mg sublingual tablets sugar free                              | b           | Def    | 9951               | 9659             | 292     | 3%        | 36.9 (30.6-44.1) | 73%    |

| Data-base | Medcode             | ReadCode / SNOMED | Type | Term                                                                                      | Meth / bupe | Status | Number in database | Number in cohort | Dropped   | % dropped | Median age (IQR) | % Male |
|-----------|---------------------|-------------------|------|-------------------------------------------------------------------------------------------|-------------|--------|--------------------|------------------|-----------|-----------|------------------|--------|
| A         | x6527241000033111   | -                 | Pr   | Prefibin 8mg sublingual tablets (Sandoz Ltd)                                              | b           | Ex     | <50                | <50              | <50       | 0%        | 32.3             | 100%   |
| A         | x100464141000033110 | -                 | Pr   | Gabup 8mg sublingual tablets (Martindale Pharmaceuticals Ltd)                             | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| A         | x1835441000033117   | -                 | Pr   | Buprenorphine 8mg sublingual tablets sugar free                                           | b           | Def    | 7824               | 7771             | 53        | 1%        | 36.7 (30.8-43.0) | 77%    |
| A         | x1835741000033112   | -                 | Pr   | Subutex 8mg sublingual tablets (Indivior UK Ltd)                                          | b           | Def    | 3653               | 3620-3630        | 20-30     | 0%        | 33.9 (28.5-40.0) | 77%    |
| A         | x6527641000033114   | -                 | Pr   | Tephine 200microgram sublingual tablets (Sandoz Ltd)                                      | b           | Ex     | <50                | <50              | <50       | 90%       | 66.9             | 35%    |
| A         | x1426141000033112   | -                 | Pr   | Temgesic 200microgram sublingual tablets (Indivior UK Ltd)                                | b           | Ex     | 13256              | 582              | 12674     | 96%       | 55.3 (42.7-68.5) | 41%    |
| A         | x172641000033116    | -                 | Pr   | Buprenorphine 200microgram sublingual tablets sugar free                                  | b           | Ex     | 27912              | 2998             | 24914     | 89%       | 56.1 (42.9-70.1) | 39%    |
| A         | x1080541000033116   | -                 | Pr   | Physeptone 5mg tablets (Martindale Pharmaceuticals Ltd)                                   | m           | Ex     | 1059               | 952              | 107       | 10%       | 38.1 (32.5-44.6) | 70%    |
| A         | x897141000033112    | -                 | Pr   | Methadone 5mg tablets                                                                     | m           | Ex     | 2952               | 2155             | 797       | 27%       | 42.5 (33.7-53.5) | 62%    |
| A         | x2092941000033111   | -                 | Pr   | Methadone hydrochloride powder                                                            | m           | Ex     | <50                | <50              | <50       | 50%       | 27.8             | 50%    |
| A         | x2659341000033116   | -                 | Pr   | Methadone 50mg/2ml solution for injection ampoules                                        | m           | Ex     | <50                | <50              | <50       | 20%       | 47.4             | 67%    |
| A         | x3030741000033111   | -                 | Pr   | Synastone 50mg/2ml solution for injection ampoules (Auden McKenzie (Pharma Division) Ltd) | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| A         | x5836741000033118   | -                 | Pr   | Physeptone 50mg/2ml solution for injection ampoules (Martindale Pharmaceuticals Ltd)      | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| A         | x5836641000033110   | -                 | Pr   | Physeptone 50mg/1ml solution for injection ampoules (Martindale Pharmaceuticals Ltd)      | m           | Ex     | <50                | <50              | <50       | 0%        | 44.0             | 67%    |
| A         | x3030641000033119   | -                 | Pr   | Synastone 50mg/1ml solution for injection ampoules (Auden McKenzie (Pharma Division) Ltd) | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| A         | x883141000033115    | -                 | Pr   | Methadone 50mg/1ml solution for injection ampoules                                        | m           | Ex     | 134                | 110-120          | 20-20     | 10%       | 39.7 (33.2-48.9) | 72%    |
| A         | x11029341000033114  | -                 | Pr   | Buteac 5micrograms/hour transdermal patches (Qdem Pharmaceuticals Ltd)                    | b           | Ex     | 43018              | 293              | 42725     | 99%       | 79.1 (66.2-86.9) | 27%    |
| A         | x12409541000033116  | -                 | Pr   | Busiete 5micrograms/hour transdermal patches (Teva UK Ltd)                                | b           | Ex     | 57                 | 0-0              | 50-60     | 100%      | 78.8 (59.8-83.7) | 26%    |
| A         | x12325741000033112  | -                 | Pr   | Bupramyl 5micrograms/hour transdermal patches (Mylan)                                     | b           | Ex     | <50                | <50              | <50       | 100%      | 76.8             | 36%    |
| A         | x12603441000033118  | -                 | Pr   | Bunov 5micrograms/hour transdermal patches (Glenmark Pharmaceuticals Europe Ltd)          | b           | Ex     | 494                | 0-10             | 490-490   | 100%      | 78.4 (63.7-87.0) | 20%    |
| A         | x11732541000033112  | -                 | Pr   | Reletrans 5micrograms/hour transdermal patches (Sandoz Ltd)                               | b           | Ex     | 1981               | 10-20            | 1960-1970 | 100%      | 77.6 (62.9-85.8) | 27%    |
| A         | x11730941000033119  | -                 | Pr   | Panitaz 5micrograms/hour transdermal patches (Dr Reddy's Laboratories (UK) Ltd)           | b           | Ex     | 134                | 0-10             | 130-130   | 100%      | 68.4 (55.8-83.3) | 31%    |
| A         | x11756241000033110  | -                 | Pr   | Sevodyne 5micrograms/hour transdermal patches (Aspire Pharma Ltd)                         | b           | Ex     | 960                | 0-10             | 950-960   | 100%      | 76.1 (60.5-84.3) | 25%    |
| A         | x3343641000033113   | -                 | Pr   | BuTrans 5micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)                   | b           | Ex     | 47902              | 479              | 47423     | 99%       | 75.1 (60.5-84.4) | 28%    |
| A         | x3343341000033117   | -                 | Pr   | Buprenorphine 5micrograms/hour transdermal patches                                        | b           | Ex     | 117312             | 1210             | 116102    | 99%       | 75.9 (61.2-84.9) | 28%    |
| A         | x11029541000033119  | -                 | Pr   | Buteac 20micrograms/hour transdermal patches (Qdem Pharmaceuticals Ltd)                   | b           | Ex     | 11927              | 238              | 11689     | 98%       | 72.4 (57.5-83.2) | 29%    |
| A         | x11756441000033111  | -                 | Pr   | Sevodyne 20micrograms/hour transdermal patches (Aspire Pharma Ltd)                        | b           | Ex     | 342                | 0-10             | 330-340   | 100%      | 67.9 (54.9-79.5) | 30%    |
| A         | x11730841000033110  | -                 | Pr   | Panitaz 20micrograms/hour transdermal patches (Dr Reddy's Laboratories (UK) Ltd)          | b           | Ex     | 85                 | 0-10             | 80-90     | 100%      | 59.6 (48.0-80.7) | 32%    |
| A         | x11732441000033111  | -                 | Pr   | Reletrans 20micrograms/hour transdermal patches (Sandoz Ltd)                              | b           | Ex     | 621                | 10-20            | 600-610   | 100%      | 70.3 (55.9-82.2) | 31%    |
| A         | x12603341000033112  | -                 | Pr   | Bunov 20micrograms/hour transdermal patches (Glenmark Pharmaceuticals Europe Ltd)         | b           | Ex     | 241                | 0-10             | 230-240   | 100%      | 70.9 (58.1-82.1) | 30%    |
| A         | x12326041000033117  | -                 | Pr   | Bupramyl 20micrograms/hour transdermal patches (Mylan)                                    | b           | Ex     | <50                | <50              | <50       | 100%      | 62.1             | 16%    |
| A         | x12409741000033112  | -                 | Pr   | Busiete 20micrograms/hour transdermal patches (Teva UK Ltd)                               | b           | Ex     | <50                | <50              | <50       | 100%      | 79.1             | 27%    |
| A         | x3343541000033112   | -                 | Pr   | Buprenorphine 20micrograms/hour transdermal patches                                       | b           | Ex     | 30630              | 754              | 29876     | 98%       | 71.0 (55.7-81.9) | 31%    |
| A         | x3343841000033114   | -                 | Pr   | BuTrans 20micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)                  | b           | Ex     | 12573              | 275              | 12298     | 98%       | 69.6 (54.6-80.7) | 31%    |
| A         | x11029441000033115  | -                 | Pr   | Buteac 10micrograms/hour transdermal patches (Qdem Pharmaceuticals Ltd)                   | b           | Ex     | 30875              | 338              | 30537     | 99%       | 76.7 (62.6-85.4) | 28%    |
| A         | x12409641000033115  | -                 | Pr   | Busiete 10micrograms/hour transdermal patches (Teva UK Ltd)                               | b           | Ex     | 57                 | 0-0              | 50-60     | 100%      | 78.5 (59.3-83.1) | 28%    |
| A         | x12325941000033110  | -                 | Pr   | Bupramyl 10micrograms/hour transdermal patches (Mylan)                                    | b           | Ex     | <50                | <50              | <50       | 100%      | 76.3             | 33%    |
| A         | x12603241000033119  | -                 | Pr   | Bunov 10micrograms/hour transdermal patches (Glenmark Pharmaceuticals Europe Ltd)         | b           | Ex     | 448                | 0-10             | 440-450   | 100%      | 74.2 (60.6-86.0) | 25%    |
| A         | x11732241000033110  | -                 | Pr   | Reletrans 10micrograms/hour transdermal patches (Sandoz Ltd)                              | b           | Ex     | 1497               | 10-20            | 1470-1480 | 100%      | 74.2 (60.2-84.1) | 29%    |
| A         | x11730741000033117  | -                 | Pr   | Panitaz 10micrograms/hour transdermal patches (Dr Reddy's Laboratories (UK) Ltd)          | b           | Ex     | 149                | 0-10             | 140-150   | 100%      | 68.0 (53.1-82.2) | 29%    |
| A         | x11756341000033117  | -                 | Pr   | Sevodyne 10micrograms/hour transdermal patches (Aspire Pharma Ltd)                        | b           | Ex     | 763                | 0-10             | 750-760   | 100%      | 72.8 (57.5-83.5) | 28%    |
| A         | x3343441000033111   | -                 | Pr   | Buprenorphine 10micrograms/hour transdermal patches                                       | b           | Ex     | 79977              | 1241             | 78736     | 98%       | 73.5 (58.4-83.5) | 30%    |
| A         | x3343741000033116   | -                 | Pr   | BuTrans 10micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)                  | b           | Ex     | 31970              | 436              | 31534     | 99%       | 72.3 (57.4-82.7) | 30%    |
| A         | x4010841000033112   | -                 | Pr   | Suboxone 2mg/500microgram sublingual tablets (Indivior UK Ltd)                            | b           | Def    | 501                | 490-500          | 0-10      | 0%        | 35.7 (30.6-41.3) | 73%    |
| A         | x4010641000033111   | -                 | Pr   | Buprenorphine 2mg / Naloxone 500microgram sublingual tablets sugar free                   | b           | Def    | 419                | 400-410          | 10-20     | 0%        | 37.8 (30.9-44.4) | 76%    |
| A         | x4010741000033119   | -                 | Pr   | Buprenorphine 8mg / Naloxone 2mg sublingual tablets sugar free                            | b           | Def    | 363                | 360-360          | 0-10      | 0%        | 36.8 (30.9-43.5) | 77%    |
| A         | x4010941000033116   | -                 | Pr   | Suboxone 8mg/2mg sublingual tablets (Indivior UK Ltd)                                     | b           | Def    | 495                | 480-490          | 0-10      | 0%        | 35.3 (27.7-41.1) | 73%    |
| A         | x4268241000033115   | -                 | Pr   | Eptadone 5mg/ml oral solution (Dee Pharmaceuticals Ltd)                                   | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| A         | x6067641000033118   | -                 | Pr   | Methadone 100mg capsules                                                                  | m           | Ex     | <50                | <50              | <50       | 50%       | 47.5             | 50%    |
| A         | x5008841000033117   | -                 | Pr   | Methadone 30mg capsules                                                                   | m           | Ex     | <50                | <50              | <50       | 50%       | 49.4             | 64%    |
| A         | x4815541000033118   | -                 | Pr   | Methadone 5mg capsules                                                                    | m           | Def    | 106                | 70-80            | 20-30     | 30%       | 48.7 (38.7-60.1) | 51%    |

| Data-base | Medcode            | ReadCode / SNOMED | Type | Term                                                                                      | Meth / bupe | Status | Number in database | Number in cohort | Dropped   | % dropped | Median age (IQR) | % Male |
|-----------|--------------------|-------------------|------|-------------------------------------------------------------------------------------------|-------------|--------|--------------------|------------------|-----------|-----------|------------------|--------|
| A         | x10045241000033110 | -                 | Pr   | Buprenorphine 1mg sublingual tablets sugar free                                           | b           | Def    | 54                 | 50-60            | 0-10      | 10%       | 41.2 (32.6-47.3) | 76%    |
| A         | x10045541000033112 | -                 | Pr   | Gabup 1mg sublingual tablets (Martindale Pharmaceuticals Ltd)                             | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| A         | x10045941000033118 | -                 | Pr   | Gabup 4mg sublingual tablets (Martindale Pharmaceuticals Ltd)                             | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| A         | x10045641000033113 | -                 | Pr   | Buprenorphine 4mg sublingual tablets sugar free                                           | b           | Def    | 77                 | 70-80            | 0-10      | 0%        | 38.3 (33.8-44.7) | 73%    |
| A         | x10045441000033111 | -                 | Pr   | Buprenorphine 6mg sublingual tablets sugar free                                           | b           | Def    | 54                 | 50-60            | 0-10      | 0%        | 37.3 (33.0-47.2) | 70%    |
| A         | x10046041000033111 | -                 | Pr   | Gabup 6mg sublingual tablets (Martindale Pharmaceuticals Ltd)                             | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| A         | x11077241000033112 | -                 | Pr   | BuTrans 15micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)                  | b           | Ex     | 1302               | 20-30            | 1270-1280 | 100%      | 72.9 (57.5-82.6) | 29%    |
| A         | x11077041000033116 | -                 | Pr   | Buprenorphine 15micrograms/hour transdermal patches                                       | b           | Ex     | 3864               | 50               | 3814      | 99%       | 74.7 (59.9-83.9) | 29%    |
| A         | x12106841000033113 | -                 | Pr   | Buteac 15micrograms/hour transdermal patches (Qdem Pharmaceuticals Ltd)                   | b           | Ex     | 7203               | 96               | 7107      | 99%       | 75.9 (61.6-85.2) | 28%    |
| A         | x11732341000033117 | -                 | Pr   | Reletrans 15micrograms/hour transdermal patches (Sandoz Ltd)                              | b           | Ex     | 550                | 0-10             | 540-550   | 100%      | 72.3 (57.4-83.8) | 28%    |
| A         | x11707841000033116 | -                 | Pr   | Buprenorphine 16mg / Naloxone 4mg sublingual tablets sugar free                           | b           | Ex     | <50                | <50              | <50       | 30%       | 45.2             | 55%    |
| A         | x11707941000033112 | -                 | Pr   | Suboxone 16mg/4mg sublingual tablets (Indivior UK Ltd)                                    | b           | Ex     | <50                | <50              | <50       | 30%       | 46.2             | 67%    |
| A         | x11789141000033119 | -                 | Pr   | Buprenorphine 2mg oral lyophilisates sugar free                                           | b           | Def    | 87                 | 80-90            | 0-10      | 0%        | 40.2 (35.7-47.3) | 70%    |
| A         | x11789341000033116 | -                 | Pr   | Espranor 2mg oral lyophilisates (Martindale Pharmaceuticals Ltd)                          | b           | Def    | 122                | 120-130          | 0-10      | 0%        | 42.6 (37.2-48.5) | 73%    |
| A         | x11789241000033114 | -                 | Pr   | Buprenorphine 8mg oral lyophilisates sugar free                                           | b           | Def    | 62                 | 60-70            | 0-0       | 0%        | 42.1 (36.4-51.5) | 81%    |
| A         | x11789441000033110 | -                 | Pr   | Espranor 8mg oral lyophilisates (Martindale Pharmaceuticals Ltd)                          | b           | Def    | 113                | 110-120          | 0-10      | 0%        | 42.8 (39.4-49.3) | 80%    |
| A         | x2922641000033116  | -                 | Pr   | Buprenorphine 300micrograms/1ml solution for injection ampoules                           | b           | Ex     | <50                | <50              | <50       | 80%       | 78.9             | 42%    |
| A         | x2922741000033113  | -                 | Pr   | Temgesic 300micrograms/1ml solution for injection ampoules (Indivior UK Ltd)              | b           | Ex     | <50                | <50              | <50       | 100%      | 52.8             | 67%    |
| A         | x8882741000033116  | -                 | Pr   | Hapoctasin 35micrograms/hour transdermal patches (Actavis UK Ltd)                         | b           | Ex     | 272                | 10-20            | 250-260   | 90%       | 61.4 (48.8-77.3) | 31%    |
| A         | x11484341000033112 | -                 | Pr   | Bupeaze 35micrograms/hour transdermal patches (Dr Reddy's Laboratories (UK) Ltd)          | b           | Ex     | 372                | 10-20            | 350-360   | 100%      | 68.6 (54.3-80.7) | 29%    |
| A         | x11507941000033111 | -                 | Pr   | Prenotrix 35micrograms/hour transdermal patches (Genesis Pharmaceuticals Ltd)             | b           | Ex     | <50                | <50              | <50       | 100%      | 62.3             | 50%    |
| A         | x2737541000033111  | -                 | Pr   | Buprenorphine 35micrograms/hour transdermal patches                                       | b           | Ex     | 13636              | 532              | 13104     | 96%       | 68.6 (53.3-80.0) | 33%    |
| A         | x12603541000033117 | -                 | Pr   | Carlosafine 35micrograms/hour transdermal patches (Glenmark Pharmaceuticals Europe Ltd)   | b           | Ex     | <50                | <50              | <50       | 100%      | 40.2             | 0%     |
| A         | x12428441000033117 | -                 | Pr   | Turgeon 35micrograms/hour transdermal patches (Teva UK Ltd)                               | b           | Ex     | <50                | <50              | <50       | 90%       | 70.4             | 30%    |
| A         | x12194941000033112 | -                 | Pr   | Relevtec 35micrograms/hour transdermal patches (Sandoz Ltd)                               | b           | Ex     | 69                 | 0-10             | 60-70     | 90%       | 68.8 (55.8-82.5) | 35%    |
| A         | x11780641000033117 | -                 | Pr   | Buplast 35micrograms/hour transdermal patches (Mylan)                                     | b           | Ex     | <50                | <50              | <50       | 100%      | 74.3             | 33%    |
| A         | x2737841000033113  | -                 | Pr   | Transtec 35micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)                 | b           | Ex     | 6167               | 211              | 5956      | 97%       | 67.4 (52.4-79.4) | 33%    |
| A         | x11577141000033119 | -                 | Pr   | Prenotrix 52.5micrograms/hour transdermal patches (Genesis Pharmaceuticals Ltd)           | b           | Ex     | <50                | <50              | <50       | 100%      | 63.8             | 20%    |
| A         | x11484441000033118 | -                 | Pr   | Bupeaze 52.5micrograms/hour transdermal patches (Dr Reddy's Laboratories (UK) Ltd)        | b           | Ex     | 224                | 0-10             | 210-220   | 100%      | 65.5 (51.8-79.6) | 34%    |
| A         | x8882841000033114  | -                 | Pr   | Hapoctasin 52.5micrograms/hour transdermal patches (Actavis UK Ltd)                       | b           | Ex     | 148                | 0-10             | 130-140   | 90%       | 63.0 (50.0-77.2) | 38%    |
| A         | x12195041000033112 | -                 | Pr   | Relevtec 52.5micrograms/hour transdermal patches (Sandoz Ltd)                             | b           | Ex     | <50                | <50              | <50       | 100%      | 69.9             | 32%    |
| A         | x11780741000033114 | -                 | Pr   | Buplast 52.5micrograms/hour transdermal patches (Mylan)                                   | b           | Ex     | <50                | <50              | <50       | 100%      | 72.9             | 50%    |
| A         | x12428541000033116 | -                 | Pr   | Turgeon 52.5micrograms/hour transdermal patches (Teva UK Ltd)                             | b           | Ex     | <50                | <50              | <50       | 100%      | 77.4             | 29%    |
| A         | x12603641000033116 | -                 | Pr   | Carlosafine 52.5micrograms/hour transdermal patches (Glenmark Pharmaceuticals Europe Ltd) | b           | Ex     | <50                | <50              | <50       | 100%      | 53.4             | 33%    |
| A         | x2737641000033112  | -                 | Pr   | Buprenorphine 52.5micrograms/hour transdermal patches                                     | b           | Ex     | 5508               | 322              | 5186      | 94%       | 66.8 (52.1-78.9) | 35%    |
| A         | x2737941000033117  | -                 | Pr   | Transtec 52.5micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)               | b           | Ex     | 2542               | 119              | 2423      | 95%       | 65.7 (51.4-78.0) | 36%    |
| A         | x8882941000033118  | -                 | Pr   | Hapoctasin 70micrograms/hour transdermal patches (Actavis UK Ltd)                         | b           | Ex     | 91                 | 0-10             | 80-90     | 90%       | 62.5 (51.1-76.6) | 30%    |
| A         | x11484541000033117 | -                 | Pr   | Bupeaze 70micrograms/hour transdermal patches (Dr Reddy's Laboratories (UK) Ltd)          | b           | Ex     | 141                | 0-10             | 130-140   | 90%       | 64.5 (54.5-76.3) | 40%    |
| A         | x11577241000033114 | -                 | Pr   | Prenotrix 70micrograms/hour transdermal patches (Genesis Pharmaceuticals Ltd)             | b           | Ex     | <50                | <50              | <50       | 50%       | 46.0             | 0%     |
| A         | x2737741000033115  | -                 | Pr   | Buprenorphine 70micrograms/hour transdermal patches                                       | b           | Ex     | 2830               | 211              | 2619      | 93%       | 65.5 (50.5-77.8) | 37%    |
| A         | x12603741000033113 | -                 | Pr   | Carlosafine 70micrograms/hour transdermal patches (Glenmark Pharmaceuticals Europe Ltd)   | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| A         | x12428641000033115 | -                 | Pr   | Turgeon 70micrograms/hour transdermal patches (Teva UK Ltd)                               | b           | Ex     | <50                | <50              | <50       | 100%      | 71.2             | 17%    |
| A         | x12195141000033111 | -                 | Pr   | Relevtec 70micrograms/hour transdermal patches (Sandoz Ltd)                               | b           | Ex     | <50                | <50              | <50       | 90%       | 63.4             | 30%    |
| A         | x11780841000033116 | -                 | Pr   | Buplast 70micrograms/hour transdermal patches (Mylan)                                     | b           | Ex     | <50                | <50              | <50       | 100%      | 59.8             | 50%    |
| A         | x2738041000033119  | -                 | Pr   | Transtec 70micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)                 | b           | Ex     | 1371               | 85               | 1286      | 94%       | 65.0 (50.8-77.3) | 38%    |
| A         | x2661441000033119  | -                 | Pr   | Synastone 50mg/5ml solution for injection ampoules (Auden McKenzie (Pharma Division) Ltd) | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| A         | x1977841000033116  | -                 | Pr   | Methadone 50mg/5ml solution for injection ampoules                                        | m           | Ex     | <50                | <50              | <50       | 50%       | 55.2             | 71%    |
| A         | x2069241000033110  | -                 | Pr   | Physeptone 50mg/5ml solution for injection ampoules (Martindale Pharmaceuticals Ltd)      | m           | Ex     | <50                | <50              | <50       | 0%        | 40.9             | 100%   |
| A         | x1654441000033113  | -                 | Pr   | Methadose diluent oral solution sugar free (Rosemont Pharmaceuticals Ltd)                 | m           | Ex     | <50                | <50              | <50       | 0%        | 30.2             | 20%    |
| A         | x2069441000033111  | -                 | Pr   | Methadone 10mg/1ml solution for injection ampoules                                        | m           | Ex     | 167                | 87               | 80        | 48%       | 51.9 (39.2-67.1) | 66%    |
| A         | x2069341000033117  | -                 | Pr   | Physeptone 10mg/1ml solution for injection ampoules (Martindale Pharmaceuticals Ltd)      | m           | Ex     | <50                | <50              | <50       | 20%       | 53.5             | 67%    |

| Data-base | Medcode           | ReadCode / SNOMED | Type | Term                                                                                      | Meth / bupe | Status | Number in database | Number in cohort | Dropped | % dropped | Median age (IQR) | % Male |
|-----------|-------------------|-------------------|------|-------------------------------------------------------------------------------------------|-------------|--------|--------------------|------------------|---------|-----------|------------------|--------|
| A         | x2661141000033110 | -                 | Pr   | Synastone 10mg/1ml solution for injection ampoules (Auden McKenzie (Pharma Division) Ltd) | m           | Ex     | -                  | -                | -       | -         | -                | -      |
| A         | x1655941000033119 | -                 | Pr   | Methadone 10mg/ml oral solution sugar free                                                | m           | Def    | 709                | 652              | 57      | 8%        | 41.9 (33.7-52.0) | 66%    |
| A         | x1655741000033117 | -                 | Pr   | Methadose 10mg/ml oral solution concentrate (Rosemont Pharmaceuticals Ltd)                | m           | Ex     | <50                | <50              | <50     | 20%       | 35.8             | 57%    |
| A         | x888541000033115  | -                 | Pr   | Methadone 1mg/ml oral solution                                                            | m           | Def    | 26831              | 26288            | 543     | 2%        | 33.1 (27.1-40.3) | 70%    |
| A         | x2957241000033118 | -                 | Pr   | Physeptone 1mg/ml mixture (Martindale Pharmaceuticals Ltd)                                | m           | Def    | 839                | 830-840          | 0-10    | 0%        | 39.0 (33.3-44.9) | 69%    |
| A         | x4268141000033110 | -                 | Pr   | Eptadone 1mg/ml oral solution (Dee Pharmaceuticals Ltd)                                   | m           | Ex     | <50                | <50              | <50     | 0%        | 30.8             | 100%   |
| A         | x2003041000033115 | -                 | Pr   | Methadone 1mg/ml oral solution sugar free                                                 | m           | Def    | 13751              | 13547            | 204     | 2%        | 36.8 (30.8-44.1) | 70%    |
| A         | x2103941000033113 | -                 | Pr   | Metharose 1mg/ml oral solution sugar free (Rosemont Pharmaceuticals Ltd)                  | m           | Ex     | <50                | <50              | <50     | 10%       | 41.4             | 50%    |
| A         | x2957141000033113 | -                 | Pr   | Physeptone 1mg/ml oral solution sugar free (Martindale Pharmaceuticals Ltd)               | m           | Def    | 2304               | 2290-2300        | 10-20   | 0%        | 38.0 (32.5-44.1) | 71%    |
| A         | x1977541000033118 | -                 | Pr   | Methadone 20mg/2ml solution for injection ampoules                                        | m           | Ex     | <50                | <50              | <50     | 40%       | 49.9             | 67%    |
| A         | x2069041000033119 | -                 | Pr   | Physeptone 20mg/2ml solution for injection ampoules (Martindale Pharmaceuticals Ltd)      | m           | Ex     | <50                | <50              | <50     | 50%       | 38.3             | 100%   |
| A         | x1656041000033112 | -                 | Pr   | Methadone 20mg/ml oral solution sugar free                                                | m           | Def    | 152                | 140-150          | 0-10    | 0%        | 41.9 (35.0-51.1) | 68%    |
| A         | x1655841000033110 | -                 | Pr   | Methadose 20mg/ml oral solution concentrate (Rosemont Pharmaceuticals Ltd)                | m           | Ex     | <50                | <50              | <50     | 40%       | 41.9             | 80%    |
| A         | x887841000033119  | -                 | Pr   | Methadone 2mg/5ml linctus                                                                 | m           | Ex     | 1107               | 106              | 1001    | 90%       | 66.8 (54.2-75.0) | 52%    |
| A         | x1977641000033117 | -                 | Pr   | Methadone 35mg/3.5ml solution for injection ampoules                                      | m           | Ex     | <50                | <50              | <50     | 20%       | 38.2             | 77%    |
| A         | x2069141000033115 | -                 | Pr   | Physeptone 35mg/3.5ml solution for injection ampoules (Martindale Pharmaceuticals Ltd)    | m           | Ex     | <50                | <50              | <50     | 0%        | 38.0             | 100%   |
| A         | x342466013        | x228389003        | Me   | Groin injector                                                                            | -           | Prob   | 63                 | 50-60            | 0-10    | 10%       | 35.8 (31.2-42.9) | 67%    |
| A         | x342474014        | x228396001        | Me   | Does not share drug injection equipment                                                   | -           | Prob   | 161                | 110-120          | 40-50   | 30%       | 37.7 (32.5-46.0) | 73%    |
| A         | x407241000000119  | x248601000000106  | Me   | Neck injector                                                                             | -           | Prob   | <50                | <50              | <50     | 70%       | 44.8             | 86%    |
| A         | x342468014        | x228391006        | Me   | Drug injection behaviour                                                                  | -           | Prob   | <50                | <50              | <50     | 50%       | 34.2             | 70%    |
| A         | x2474734017       | x371435006        | Me   | [V]Personal history of drug abuse by injection                                            | -           | Prob   | 539                | 326              | 213     | 40%       | 31.4 (24.2-40.4) | 77%    |
| A         | x417771000006112  | x295174006        | Me   | [X]Overdose - heroin                                                                      | -           | Prob   | 3329               | 2494             | 835     | 25%       | 30.9 (24.7-38.3) | 80%    |
| A         | x2549886016       | x712545004        | Me   | Abstinent from drug misuse on maintenance replacement                                     | -           | Prob   | 89                 | 80-90            | 0-10    | 10%       | 41.1 (36.4-47.1) | 76%    |
| A         | x467941000006119  | x292056009        | Me   | Adverse reaction to heroin, diamorphine                                                   | -           | Prob   | 72                 | 20-30            | 40-50   | 60%       | 35.3 (28.1-51.8) | 50%    |
| A         | x1772531000006119 | x1772531000006103 | Me   | Clinical Opiate Withdrawal Scale                                                          | -           | Prob   | <50                | <50              | <50     | 0%        | 57.3             | 100%   |
| A         | x1774961000000119 | x763699005        | Me   | Clinical opiate withdrawal scale                                                          | -           | Prob   | 92                 | 50-60            | 30-40   | 40%       | 43.4 (35.3-52.2) | 57%    |
| A         | x968671000006118  | x968671000006102  | Me   | Currently injecting drugs                                                                 | -           | Prob   | 477                | 460-470          | 10-20   | 0%        | 36.9 (32.0-41.1) | 74%    |
| A         | x512101000000118  | x277091000000105  | Me   | H/O methadone misuse                                                                      | -           | Def    | 256                | 250-250          | 0-10    | 0%        | 34.7 (25.9-41.1) | 65%    |
| A         | x339576014        | x226034001        | Me   | Injecting drug user                                                                       | -           | Prob   | 3231               | 2716             | 515     | 16%       | 32.8 (26.2-39.7) | 75%    |
| A         | x342465012        | x228388006        | Me   | Intravenous drug user                                                                     | -           | Prob   | 5330               | 3889             | 1441    | 27%       | 32.0 (25.0-39.5) | 72%    |
| A         | x1971531000006116 | x1971531000006100 | Me   | Mental & behav dis due to use opioids: psychotic disorder, predominantly polymorphic      | -           | Def    | <50                | <50              | <50     | 50%       | 49.7             | 100%   |
| A         | x969121000006115  | x969121000006104  | Me   | Misuse of Anileridine                                                                     | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x969271000006114  | x969271000006105  | Me   | Misuse of Codeine linctus                                                                 | -           | Def    | <50                | <50              | <50     | 20%       | 49.7             | 64%    |
| A         | x969231000006111  | x969231000006107  | Me   | Misuse of Codeine tablets                                                                 | -           | Prob   | 965                | 310              | 655     | 68%       | 37.7 (30.9-47.1) | 42%    |
| A         | x969061000006110  | x969061000006106  | Me   | Misuse of Dextromoramide                                                                  | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x969251000006116  | x969251000006100  | Me   | Misuse of Dextropropoxyphene                                                              | -           | Def    | <50                | <50              | <50     | 50%       | 52.7             | 100%   |
| A         | x968811000006111  | x968811000006107  | Me   | Misuse of Diamorphine Hydrochl amps                                                       | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x969151000006112  | x969151000006108  | Me   | Misuse of Ethioheptazine                                                                  | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x969301000006111  | x969301000006107  | Me   | Misuse of Gee's linctus                                                                   | -           | Def    | <50                | <50              | <50     | 50%       | 38.9             | 100%   |
| A         | x969211000006117  | x969211000006101  | Me   | Misuse of Meptazinol                                                                      | -           | Def    | <50                | <50              | <50     | 50%       | 68.7             | 25%    |
| A         | x969261000006119  | x969261000006103  | Me   | Misuse of Opiate containing mixture                                                       | -           | Def    | <50                | <50              | <50     | 10%       | 40.6             | 56%    |
| A         | x969281000006112  | x969281000006108  | Me   | Misuse of Pentazocine                                                                     | -           | Def    | <50                | <50              | <50     | 50%       | 48.9             | 50%    |
| A         | x969191000006118  | x969191000006102  | Me   | Misuse of Phenazocine                                                                     | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x969181000006116  | x969181000006100  | Me   | Misuse of Phenoperidine                                                                   | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x882501000006119  | x191816009        | Me   | Morphine/cocaine dependence                                                               | -           | Def    | 1489               | 1460-1470        | 20-30   | 0%        | 26.6 (21.8-32.6) | 73%    |
| A         | x882501000006119  | x191816009        | Me   | Morphine/cocaine dependence                                                               | -           | Def    | 1489               | 1460-1470        | 20-30   | 0%        | 26.6 (21.8-32.6) | 73%    |
| A         | x988901000006116  | x191816009        | Me   | Morphine/cocaine dependence                                                               | -           | Def    | <50                | <50              | <50     | 30%       | 43.9             | 100%   |
| A         | x988901000006116  | x191816009        | Me   | Morphine/cocaine dependence                                                               | -           | Def    | <50                | <50              | <50     | 30%       | 43.9             | 100%   |
| A         | x882501000006119  | x191816009        | Me   | Morphine/cocaine dependence                                                               | -           | Def    | 1489               | 1460-1470        | 20-30   | 0%        | 26.6 (21.8-32.6) | 73%    |
| A         | x882501000006119  | x191816009        | Me   | Morphine/cocaine dependence                                                               | -           | Def    | 1489               | 1460-1470        | 20-30   | 0%        | 26.6 (21.8-32.6) | 73%    |
| A         | x988901000006116  | x191816009        | Me   | Morphine/cocaine dependence                                                               | -           | Def    | <50                | <50              | <50     | 30%       | 43.9             | 100%   |

| Data-base | Medcode           | ReadCode / SNOMED | Type | Term                                                                                                           | Meth / bupe | Status | Number in database | Number in cohort | Dropped | % dropped | Median age (IQR) | % Male |
|-----------|-------------------|-------------------|------|----------------------------------------------------------------------------------------------------------------|-------------|--------|--------------------|------------------|---------|-----------|------------------|--------|
| A         | x988901000006116  | x191816009        | Me   | Morphine/cocaine dependence                                                                                    | -           | Def    | <50                | <50              | <50     | 30%       | 43.9             | 100%   |
| A         | x2639961000000113 | x1047881000000106 | Me   | Opioid analgesic dependence                                                                                    | -           | Prob   | 206                | 20-30            | 170-180 | 90%       | 53.7 (41.4-64.2) | 39%    |
| A         | x2548992019       | x416479009        | Me   | Previously injecting drug user                                                                                 | -           | Prob   | 2313               | 2092             | 221     | 10%       | 38.5 (32.5-45.1) | 72%    |
| A         | x342473015        | x228395002        | Me   | Sharing of drug injecting equipment                                                                            | -           | Prob   | <50                | <50              | <50     | 30%       | 38.2             | 80%    |
| A         | x968661000006113  | x968661000006109  | Me   | Previously injected drugs                                                                                      | -           | Prob   | <50                | <50              | <50     | 0%        | 35.0             | 0%     |
| A         | x295297018        | x191914006        | Me   | Nondependent opioid abuse in remission                                                                         | -           | Def    | <50                | <50              | <50     | 0%        | 22.0             | 50%    |
| A         | x295232014        | x191869005        | Me   | Combined opioid with other drug dependence in remission                                                        | -           | Def    | <50                | <50              | <50     | 0%        | 32.7             | 72%    |
| A         | x295156018        | x191821007        | Me   | Opioid dependence in remission                                                                                 | -           | Def    | 717                | 710-720          | 0-10    | 0%        | 31.8 (26.2-38.6) | 73%    |
| A         | x477031000000112  | x278031000000108  | Me   | Previous history of opiate misuse                                                                              | -           | Def    | 197                | 190-200          | 0-10    | 0%        | 36.0 (28.3-42.9) | 64%    |
| A         | x475831000000113  | x277431000000104  | Me   | Previous history of methadone misuse                                                                           | -           | Def    | <50                | <50              | <50     | 0%        | 34.5             | 50%    |
| A         | x1976531000006113 | x1976531000006109 | Me   | Mental and behav dis due to use opioids: dependence syndr, currently abstinent, but in a protected environment | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x475531000000111  | x277281000000101  | Me   | Previous history of heroin misuse                                                                              | -           | Def    | 621                | 610-620          | 0-10    | 0%        | 33.2 (27.5-42.2) | 68%    |
| A         | x328544015        | x216463005        | Me   | Accidental poisoning by heroin                                                                                 | -           | Prob   | -                  | -                | -       | -         | -                | -      |
| A         | x1220925010       | x13187008         | Me   | Heroin poisoning                                                                                               | -           | Prob   | -                  | -                | -       | -         | -                | -      |
| A         | x361941000006116  | x216463005        | Me   | [X]Accidental poisoning with heroin                                                                            | -           | Prob   | -                  | -                | -       | -         | -                | -      |
| A         | x295296010        | x191913000        | Me   | Nondependent opioid abuse, episodic                                                                            | -           | Def    | <50                | <50              | <50     | 10%       | 29.0             | 44%    |
| A         | x295228015        | x191865004        | Me   | Combined opioid with other drug dependence                                                                     | -           | Def    | 749                | 740-750          | 0-10    | 0%        | 32.0 (25.2-38.9) | 70%    |
| A         | x295295014        | x191912005        | Me   | Nondependent opioid abuse, continuous                                                                          | -           | Def    | <50                | <50              | <50     | 0%        | 30.1             | 50%    |
| A         | x295154015        | x191819002        | Me   | Continuous opioid dependence                                                                                   | -           | Def    | 2166               | 2120-2130        | 40-40   | 0%        | 33.7 (27.4-40.1) | 67%    |
| A         | x295155019        | x191820008        | Me   | Episodic opioid dependence                                                                                     | -           | Def    | 412                | 400-410          | 0-10    | 0%        | 31.7 (25.8-39.1) | 70%    |
| A         | x295231019        | x191868002        | Me   | Combined opioid with other drug dependence, episodic                                                           | -           | Def    | <50                | <50              | <50     | 0%        | 34.0             | 81%    |
| A         | x295230018        | x191867007        | Me   | Combined opioid with other drug dependence, continuous                                                         | -           | Def    | 99                 | 90-100           | 0-10    | 0%        | 30.9 (27.0-36.7) | 76%    |
| A         | x295290016        | x191909007        | Me   | Nondependent opioid abuse                                                                                      | -           | Def    | 357                | 340-350          | 10-20   | 0%        | 29.4 (23.4-37.4) | 67%    |
| A         | x346951016        | x231480002        | Me   | Opium dependence                                                                                               | -           | Def    | 560                | 540-550          | 10-20   | 0%        | 32.1 (26.9-40.3) | 75%    |
| A         | x346949015        | x231478008        | Me   | Methadone dependence                                                                                           | -           | Def    | 7519               | 7425             | 94      | 1%        | 33.9 (27.5-41.2) | 68%    |
| A         | x346950015        | x231479000        | Me   | Morphine dependence                                                                                            | -           | Def    | 930                | 875              | 55      | 6%        | 31.1 (24.4-41.8) | 63%    |
| A         | x346947018        | x231477003        | Me   | Heroin dependence                                                                                              | -           | Def    | 28514              | 28223            | 291     | 1%        | 27.3 (22.1-34.1) | 72%    |
| A         | x1485129010       | x391102000        | Me   | Failed heroin detoxification                                                                                   | -           | Def    | 886                | 880-880          | 0-10    | 0%        | 28.0 (24.0-34.0) | 71%    |
| A         | x303011000000111  | x200031000000103  | Me   | Drug addiction maintenance therapy - methadone                                                                 | -           | Def    | 5459               | 5402             | 57      | 1%        | 36.3 (30.0-43.6) | 70%    |
| A         | x314821000000113  | x205231000000102  | Me   | Opiate dependence detoxification                                                                               | -           | Def    | 3311               | 3248             | 63      | 2%        | 34.7 (28.6-41.7) | 71%    |
| A         | x309921000000119  | x202991000000100  | Me   | Heroin misuse                                                                                                  | -           | Def    | 3062               | 3030-3040        | 30-40   | 0%        | 31.8 (24.7-40.5) | 72%    |
| A         | x316931000000112  | x206131000000102  | Me   | Drug addiction detoxification therapy - buprenorphine                                                          | -           | Def    | 879                | 870-880          | 0-10    | 0%        | 37.6 (31.2-45.0) | 76%    |
| A         | x302981000000113  | x200021000000100  | Me   | Drug addiction detoxification therapy - methadone                                                              | -           | Def    | 3415               | 3380-3390        | 20-30   | 0%        | 33.0 (26.7-39.9) | 69%    |
| A         | x316901000000118  | x206121000000104  | Me   | Drug addiction maintenance therapy - buprenorphine                                                             | -           | Def    | 1484               | 1470-1480        | 10-10   | 0%        | 38.8 (32.7-45.2) | 77%    |
| A         | x512241000000113  | x277221000000102  | Me   | H/O daily heroin misuse                                                                                        | -           | Def    | 526                | 520-530          | 0-10    | 0%        | 34.3 (27.6-42.4) | 77%    |
| A         | x512651000000113  | x279461000000104  | Me   | Uses heroin on top of substitution therapy                                                                     | -           | Def    | 502                | 490-500          | 0-10    | 0%        | 38.3 (32.6-44.6) | 71%    |
| A         | x495611000000112  | x286841000000101  | Me   | Reinduction to methadone maintenance therapy                                                                   | -           | Def    | 120                | 110-120          | 0-10    | 0%        | 37.2 (31.7-44.9) | 75%    |
| A         | x512201000000110  | x276981000000107  | Me   | H/O opiate misuse                                                                                              | -           | Def    | 1342               | 1300-1310        | 30-40   | 0%        | 36.0 (28.9-43.6) | 67%    |
| A         | x512281000000117  | x277371000000108  | Me   | H/O weekly methadone misuse                                                                                    | -           | Def    | <50                | <50              | <50     | 10%       | 33.0             | 63%    |
| A         | x512441000000112  | x278001000000102  | Me   | H/O infrequent opiate misuse                                                                                   | -           | Def    | <50                | <50              | <50     | 10%       | 37.7             | 47%    |
| A         | x512261000000114  | x277311000000103  | Me   | H/O infrequent heroin misuse                                                                                   | -           | Def    | 92                 | 80-90            | 0-10    | 0%        | 35.8 (25.0-43.4) | 73%    |
| A         | x512271000000119  | x277341000000102  | Me   | H/O daily methadone misuse                                                                                     | -           | Def    | <50                | <50              | <50     | 0%        | 35.6             | 67%    |
| A         | x512421000000117  | x277941000000101  | Me   | H/O daily opiate misuse                                                                                        | -           | Def    | 213                | 200-210          | 0-10    | 0%        | 39.4 (31.0-47.7) | 58%    |
| A         | x541451000000111  | x304681000000107  | Me   | Opioid agonist substitution therapy                                                                            | -           | Def    | 340                | 330-340          | 0-10    | 0%        | 38.8 (32.9-45.6) | 77%    |
| A         | x475771000000117  | x277401000000105  | Me   | H/O infrequent methadone misuse                                                                                | -           | Def    | <50                | <50              | <50     | 10%       | 34.5             | 56%    |
| A         | x512431000000115  | x277971000000107  | Me   | H/O weekly opiate misuse                                                                                       | -           | Def    | <50                | <50              | <50     | 10%       | 35.2             | 65%    |
| A         | x495671000000119  | x286871000000107  | Me   | Reinduction to buprenorphine maintenance therapy                                                               | -           | Def    | 54                 | 50-60            | 0-10    | 0%        | 43.3 (36.1-48.4) | 67%    |
| A         | x512631000000118  | x279441000000100  | Me   | H/O heroin misuse                                                                                              | -           | Def    | 2837               | 2800-2810        | 30-30   | 0%        | 31.0 (24.7-39.4) | 71%    |
| A         | x512251000000111  | x277251000000107  | Me   | H/O weekly heroin misuse                                                                                       | -           | Def    | 107                | 100-110          | 0-10    | 0%        | 37.9 (30.9-44.6) | 74%    |
| A         | x512661000000111  | x279491000000105  | Me   | Does not use heroin on top of substitution therapy                                                             | -           | Def    | 287                | 280-290          | 0-10    | 0%        | 40.8 (35.0-47.7) | 75%    |

| Data-base | Medcode          | ReadCode / SNOMED | Type | Term                                                          | Meth / bupe | Status | Number in database | Number in cohort | Dropped | % dropped | Median age (IQR) | % Male |
|-----------|------------------|-------------------|------|---------------------------------------------------------------|-------------|--------|--------------------|------------------|---------|-----------|------------------|--------|
| A         | x968901000006119 | x968901000006103  | Me   | Misuse of Methadone mixture                                   | -           | Def    | <50                | <50              | <50     | 10%       | 44.7             | 65%    |
| A         | x969021000006116 | x969021000006100  | Me   | Misuse of Morphine Sulphate                                   | -           | Prob   | 52                 | 10-20            | 30-40   | 70%       | 37.9 (25.4-53.8) | 48%    |
| A         | x969161000006114 | x969161000006105  | Me   | Misuse of Fentanyl                                            | -           | Def    | <50                | <50              | <50     | 30%       | 59.6             | 39%    |
| A         | x969381000006119 | x969381000006103  | Me   | Misuse of Kaolin and Morphine                                 | -           | Def    | <50                | <50              | <50     | 20%       | 42.5             | 60%    |
| A         | x987521000006119 | x987521000006103  | Me   | Drugs used within the past month - Heroin                     | -           | Def    | 125                | 120-130          | 0-10    | 0%        | 40.1 (33.4-49.4) | 68%    |
| A         | x969051000006113 | x969051000006109  | Me   | Misuse of Dihydrocodeine                                      | -           | Def    | 245                | 220-230          | 20-30   | 10%       | 37.9 (31.0-47.8) | 51%    |
| A         | x969101000006113 | x969101000006109  | Me   | Misuse of Hydromorphone                                       | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x969141000006110 | x969141000006106  | Me   | Misuse of Oxycodone                                           | -           | Def    | <50                | <50              | <50     | 30%       | 42.1             | 47%    |
| A         | x987531000006116 | x987531000006100  | Me   | Drugs used within the past month - Methadone                  | -           | Def    | <50                | <50              | <50     | 0%        | 38.2             | 60%    |
| A         | x968841000006110 | x968841000006106  | Me   | Substance misuse of Methadone                                 | -           | Def    | 131                | 120-130          | 0-10    | 0%        | 34.1 (26.1-43.7) | 70%    |
| A         | x969041000006111 | x969041000006107  | Me   | Misuse of Opium                                               | -           | Def    | <50                | <50              | <50     | 0%        | 32.0             | 91%    |
| A         | x968821000006115 | x968821000006104  | Me   | Misuse of Diamorphine Hydrochl reefer                         | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x968981000006111 | x968981000006107  | Me   | Misuse of Methadone suppositories                             | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x969081000006117 | x969081000006101  | Me   | Misuse of Pethidine                                           | -           | Def    | <50                | <50              | <50     | 10%       | 40.0             | 38%    |
| A         | x969111000006111 | x969111000006107  | Me   | Misuse of Oxymorphone                                         | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x969241000006118 | x969241000006102  | Me   | Misuse of Tramadol Hydrochloride                              | -           | Prob   | 426                | 91               | 335     | 79%       | 39.8 (30.3-53.4) | 43%    |
| A         | x969291000006110 | x969291000006106  | Me   | Misuse of Buprenorphine                                       | -           | Def    | 68                 | 60-70            | 0-10    | 0%        | 38.1 (30.7-42.5) | 71%    |
| A         | x969331000006115 | x969331000006104  | Me   | Misuse of Opiate compound analgesics                          | -           | Def    | 95                 | 80-90            | 10-20   | 10%       | 39.0 (29.9-48.6) | 55%    |
| A         | x968961000006118 | x968961000006102  | Me   | Misuse of Methadone amps                                      | -           | Def    | <50                | <50              | <50     | 20%       | 38.3             | 83%    |
| A         | x968741000006115 | x968741000006104  | Me   | Substance misuse of Heroin                                    | -           | Def    | 4236               | 4200-4210        | 30-30   | 0%        | 31.8 (24.2-39.6) | 73%    |
| A         | x968771000006111 | x968771000006107  | Me   | Misuse of Diamorphine                                         | -           | Def    | <50                | <50              | <50     | 10%       | 28.0             | 72%    |
| A         | x969001000006114 | x969001000006105  | Me   | Substance misuse of other Opiates                             | -           | Def    | 183                | 180-190          | 0-10    | 0%        | 33.6 (24.7-42.3) | 73%    |
| A         | x969091000006119 | x969091000006103  | Me   | Misuse of Morphine Sulphate amps                              | -           | Def    | <50                | <50              | <50     | 30%       | 64.9             | 67%    |
| A         | x969391000006116 | x969391000006100  | Me   | Misuse of other Opiates                                       | -           | Def    | 103                | 90-100           | 0-10    | 0%        | 35.9 (28.5-44.0) | 69%    |
| A         | x968761000006116 | x968761000006100  | Me   | Misuse of Heroin illicit                                      | -           | Def    | 524                | 510-510          | 10-20   | 0%        | 32.9 (26.5-40.8) | 72%    |
| A         | x968791000006112 | x968791000006108  | Me   | Misuse of Diamorphine Hydrochl elixir                         | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x968871000006119 | x968871000006103  | Me   | Misuse of Methadone unspecified                               | -           | Def    | 126                | 120-120          | 0-10    | 0%        | 32.3 (25.0-41.8) | 66%    |
| A         | x968951000006115 | x968951000006104  | Me   | Misuse of Methadone tablets                                   | -           | Def    | <50                | <50              | <50     | 10%       | 35.8             | 89%    |
| A         | x969011000006112 | x969011000006108  | Me   | Misuse of Opiates unspecified                                 | -           | Def    | 1633               | 1580-1590        | 40-50   | 0%        | 34.9 (27.9-43.4) | 68%    |
| A         | x969071000006115 | x969071000006104  | Me   | Misuse of Dipipanone                                          | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x969171000006119 | x969171000006103  | Me   | Misuse of Levorphanol                                         | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x969221000006113 | x969221000006109  | Me   | Misuse of Piriramide                                          | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x969311000006114 | x969311000006105  | Me   | Misuse of Codeine unspecified                                 | -           | Prob   | 232                | 69               | 163     | 70%       | 37.3 (31.2-47.0) | 45%    |
| A         | x969361000006112 | x969361000006108  | Me   | Misuse of Alphaprodine                                        | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x295229011       | x191865004        | Me   | Combined opioid with other drug dependence, unspecified       | -           | Def    | 89                 | 80-90            | 0-10    | 0%        | 31.0 (25.0-37.1) | 74%    |
| A         | x295293019       | x191909007        | Me   | Nondependent opioid abuse, unspecified                        | -           | Def    | <50                | <50              | <50     | 0%        | 28.4             | 70%    |
| A         | x295157010       | x75544000         | Me   | Opioid drug dependence NOS                                    | -           | Def    | 7955               | 7794             | 161     | 2%        | 32.0 (25.2-40.7) | 69%    |
| A         | x295803018       | x14784000         | Me   | [X]Mental and behavioural disorders due to use of opioids     | -           | Def    | 1609               | 1590-1600        | 10-20   | 0%        | 38.6 (31.2-45.5) | 72%    |
| A         | x295153014       | x75544000         | Me   | Unspecified opioid dependence                                 | -           | Def    | 1106               | 1060-1070        | 30-40   | 0%        | 32.9 (26.9-41.3) | 68%    |
| A         | x295233016       | x191865004        | Me   | Combined opioid with other drug dependence NOS                | -           | Def    | 73                 | 60-70            | 0-10    | 10%       | 34.0 (27.0-44.5) | 69%    |
| A         | x44291000006113  | x75544000         | Me   | Opioid type drug dependence                                   | -           | Def    | 34642              | 33993            | 649     | 2%        | 31.2 (24.7-39.3) | 70%    |
| A         | x371181000006118 | x87132004         | Me   | [X]Cold turkey, opiate withdrawal                             | -           | Def    | 835                | 698              | 137     | 16%       | 36.4 (27.9-52.0) | 56%    |
| A         | x397661000006117 | x943071000000104  | Me   | [X]Mental & behav dis due to use opioids: psychotic disorder  | -           | Def    | 91                 | 80-90            | 0-10    | 0%        | 33.6 (25.5-40.9) | 65%    |
| A         | x397901000006111 | x5602001          | Me   | [X]Mental and behav dis due to use of opioids: harmful use    | -           | Def    | 309                | 300-310          | 0-10    | 0%        | 36.3 (29.0-44.1) | 71%    |
| A         | x397941000006113 | x87132004         | Me   | [X]Mental and behav dis due to use opioids: withdrawal state  | -           | Def    | 187                | 150-160          | 30-40   | 20%       | 36.8 (27.3-53.3) | 54%    |
| A         | x397231000006112 | x91388009         | Me   | [X]Men & behav dis due opioid: withdrawal state with delirium | -           | Def    | <50                | <50              | <50     | 10%       | 42.9             | 43%    |
| A         | x397931000006115 | x75544000         | Me   | [X]Mental and behav dis due to use opioids: dependence syndr  | -           | Def    | 2565               | 2540-2550        | 20-30   | 0%        | 32.5 (25.0-41.9) | 72%    |
| A         | x379281000006110 | x75544000         | Me   | [X]Drug addiction - opioids                                   | -           | Def    | 4077               | 3958             | 119     | 3%        | 31.9 (25.3-39.8) | 65%    |
| A         | x397451000006116 | x91388009         | Me   | [X]Ment & behav dis due use opioids: unsp ment & behav dis    | -           | Def    | 83                 | 80-90            | 0-10    | 0%        | 41.2 (29.8-46.8) | 64%    |
| A         | x630131000006118 | x310653000        | Me   | Drug addictn therap-methadone                                 | -           | Def    | 21026              | 20852            | 174     | 1%        | 32.7 (26.6-39.6) | 70%    |
| A         | x388831000006113 | x75544000         | Me   | [X]Heroin addiction                                           | -           | Def    | 16920              | 16711            | 209     | 1%        | 26.2 (21.9-32.7) | 73%    |

| Data-base | Medcode           | ReadCode / SNOMED | Type | Term                                                                                                                                                      | Meth / bupe | Status | Number in database | Number in cohort | Dropped | % dropped | Median age (IQR) | % Male |
|-----------|-------------------|-------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|--------------------|------------------|---------|-----------|------------------|--------|
| A         | x397261000006115  | x14784000         | Me   | [X]Men & behav dis due to use opioids: oth men & behav dis                                                                                                | -           | Def    | 52                 | 50-60            | 0-10    | 0%        | 36.2 (29.9-43.6) | 69%    |
| A         | x397651000006119  | x77721001         | Me   | [X]Mental & behav dis due to use opioids: acute intoxication                                                                                              | -           | Def    | 64                 | 50-60            | 10-10   | 20%       | 39.9 (29.3-50.4) | 52%    |
| A         | x397921000006118  | x91388009         | Me   | [X]Mental and behav dis due to use opioids: amnesic syndrome                                                                                              | -           | Def    | <50                | <50              | <50     | 0%        | 44.2             | 82%    |
| A         | x298101000000113  | x198021000000102  | Me   | Buprenorphine maintenance therapy                                                                                                                         | -           | Def    | 907                | 870-880          | 30-40   | 0%        | 39.1 (33.1-46.3) | 72%    |
| A         | x1715521000000114 | x768711000000101  | Me   | Drug addiction maintenance therapy - lofexidine                                                                                                           | -           | Def    | <50                | <50              | <50     | 0%        | 35.7             | 67%    |
| A         | x1880021000006116 | x1880021000006100 | Me   | Opioid substitution therapy monitoring                                                                                                                    | -           | Def    | -                  | -                | -       | -         | -                | -      |
| A         | x1880021000006119 | x1880021000006100 | Me   | Opioid substitution therapy monitoring                                                                                                                    | -           | Def    | -                  | -                | -       | -         | -                | -      |
| A         | x2296901000000113 | x891951000000109  | Me   | Opioid substitution therapy monitoring                                                                                                                    | -           | Def    | 91                 | 80-90            | 0-10    | 10%       | 42.5 (37.4-49.1) | 71%    |
| A         | x2296901000000113 | x891951000000109  | Me   | Opioid substitution therapy monitoring                                                                                                                    | -           | Def    | 91                 | 80-90            | 0-10    | 10%       | 42.5 (37.4-49.1) | 71%    |
| A         | x1971461000006112 | x1971461000006108 | Me   | Men & behav dis due opioid: withdrawal state with delirium, with convulsions                                                                              | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1971521000006119 | x1971521000006103 | Me   | Mental & behav dis due to use opioids: psychotic disorder, predominantly hallucinatory                                                                    | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1971601000006113 | x1971601000006109 | Me   | Mental & behav dis due to use opioids: psychotic disorder, predominantly manic symptoms                                                                   | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1971711000006115 | x1971711000006104 | Me   | Mental & behav dis due to use opioids: resid & late-onset psychot dis, other persisting cognitive impairment                                              | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1971421000006118 | x1971421000006102 | Me   | Mental and behav dis due to use opioids: withdrawal state, uncomplicated                                                                                  | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1971451000006110 | x1971451000006106 | Me   | Men & behav dis due opioid: withdrawal state with delirium, without convulsions                                                                           | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1971471000006117 | x1971471000006101 | Me   | Mental & behav dis due to use opioids: psychotic disorder, schizophrenia-like                                                                             | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1971571000006118 | x1971571000006102 | Me   | Mental & behav dis due to use opioids: psychotic disorder, predominantly depressive symptoms                                                              | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1971671000006119 | x1971671000006103 | Me   | Mental & behav dis due to use opioids: resid & late-onset psychot dis, personality or behaviour disorder                                                  | -           | Def    | <50                | <50              | <50     | 30%       | 45.1             | 67%    |
| A         | x1971441000006113 | x1971441000006109 | Me   | Mental and behav dis due to use opioids: withdrawal state, with convulsions                                                                               | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1971741000006116 | x1971741000006100 | Me   | Mental & behav dis due to use opioids: resid & late-onset psychot dis, late-onset psychotic disorder                                                      | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1976471000006112 | x1976471000006108 | Me   | Mental & behav dis due to use opioids: acute intoxication, with convulsions                                                                               | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1976551000006118 | x1976551000006102 | Me   | Mental and behav dis due to use opioids: dependence syndr, currently on a clinically supervised maintenance or replacement regime [controlled dependence] | -           | Def    | <50                | <50              | <50     | 10%       | 48.6             | 90%    |
| A         | x1971501000006112 | x1971501000006108 | Me   | Mental & behav dis due to use opioids: psychotic disorder, predominantly delusional                                                                       | -           | Def    | <50                | <50              | <50     | 50%       | 59.8             | 100%   |
| A         | x1971631000006117 | x1971631000006101 | Me   | Mental & behav dis due to use opioids: psychotic disorder, mixed                                                                                          | -           | Def    | <50                | <50              | <50     | 20%       | 39.7             | 50%    |
| A         | x1971651000006112 | x1971651000006108 | Me   | Mental & behav dis due to use opioids: resid & late-onset psychot dis, flashbacks                                                                         | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1971681000006116 | x1971681000006100 | Me   | Mental & behav dis due to use opioids: resid & late-onset psychot dis, residual affective disorder                                                        | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1976301000006110 | x1976301000006106 | Me   | Mental & behav dis due to use opioids: acute intoxication, with trauma or other bodily injury                                                             | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1976591000006112 | x1976591000006108 | Me   | Mental and behav dis due to use opioids: dependence syndr, currently using the substance [active dependence]                                              | -           | Def    | <50                | <50              | <50     | 20%       | 35.7             | 60%    |
| A         | x1976501000006117 | x1976501000006101 | Me   | Mental and behav dis due to use opioids: dependence syndr, currently abstinent                                                                            | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1976351000006114 | x1976351000006105 | Me   | Mental & behav dis due to use opioids: acute intoxication, with delirium                                                                                  | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1976621000006114 | x1976621000006105 | Me   | Mental and behav dis due to use opioids: dependence syndr, episodic use [dipsomania]                                                                      | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1976281000006111 | x1976281000006107 | Me   | Mental & behav dis due to use opioids: acute intoxication, uncomplicated                                                                                  | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1976331000006119 | x1976331000006103 | Me   | Mental & behav dis due to use opioids: acute intoxication, with other medical complications                                                               | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1976421000006111 | x1976421000006107 | Me   | Mental & behav dis due to use opioids: acute intoxication, with perceptual distortions                                                                    | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1976581000006114 | x1976581000006105 | Me   | Mental and behav dis due to use opioids: dependence syndr, currently abstinent, but receiving treatment with aversive or blocking drugs                   | -           | Def    | <50                | <50              | <50     | 30%       | 39.4             | 100%   |
| A         | x1880021000006116 | x1880021000006100 | Me   | Opioid substitution therapy monitoring                                                                                                                    | -           | Def    | -                  | -                | -       | -         | -                | -      |
| A         | x1880021000006116 | x1880021000006100 | Me   | Opioid substitution therapy monitoring                                                                                                                    | -           | Def    | -                  | -                | -       | -         | -                | -      |
| A         | x2296901000000113 | x891951000000109  | Me   | Opioid substitution therapy monitoring                                                                                                                    | -           | Def    | 91                 | 80-90            | 0-10    | 10%       | 42.5 (37.4-49.1) | 71%    |
| A         | x2296901000000113 | x891951000000109  | Me   | Opioid substitution therapy monitoring                                                                                                                    | -           | Def    | 91                 | 80-90            | 0-10    | 10%       | 42.5 (37.4-49.1) | 71%    |
| A         | x1971701000006118 | x1971701000006102 | Me   | Mental & behav dis due to use opioids: resid & late-onset psychot dis, dementia                                                                           | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x2000501000006119 | x2000501000006103 | Me   | Uses other opioids on top of substitution therapy                                                                                                         | -           | Def    | <50                | <50              | <50     | 0%        | 33.5             | 100%   |
| A         | x2000491000006110 | x2000491000006106 | Me   | Does not use opioids on top of substitution therapy                                                                                                       | -           | Def    | <50                | <50              | <50     | 0%        | 48.1             | 100%   |
| A         | x1715481000000114 | x768691000000103  | Me   | Drug addiction maintenance therapy - naltrexone                                                                                                           | -           | Def    | <50                | <50              | <50     | 0%        | 35.8             | 64%    |
| A         | x397161000006110  | x943071000000104  | Me   | [X]Men & beh dis due opioids: resid & late-onset psychot dis                                                                                              | -           | Def    | <50                | <50              | <50     | 0%        | 45.4             | 100%   |
| A         | x968931000006110  | x968931000006106  | Me   | Misuse of Methadone linctus                                                                                                                               | -           | Def    | <50                | <50              | <50     | 50%       | 40.1             | 75%    |
| A         | x969201000006115  | x969201000006104  | Me   | Misuse of Papaveretum                                                                                                                                     | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1976611000006118 | x1976611000006102 | Me   | Mental and behav dis due to use opioids: dependence syndr, continuous use                                                                                 | -           | Def    | <50                | <50              | <50     | 0%        | 43.1             | 88%    |
| A         | x969341000006113  | x969341000006109  | Me   | Misuse of Nalbuphine                                                                                                                                      | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |
| A         | x1976441000006116 | x1976441000006100 | Me   | Mental & behav dis due to use opioids: acute intoxication, with coma                                                                                      | -           | Def    | <50                | <50              | <50     | 100%      | 73.4             | 100%   |

| Data-base | Medcode | ReadCode / SNOMED | Type | Term                                                                                        | Meth / bupe | Status | Number in database | Number in cohort | Dropped   | % dropped | Median age (IQR) | % Male |
|-----------|---------|-------------------|------|---------------------------------------------------------------------------------------------|-------------|--------|--------------------|------------------|-----------|-----------|------------------|--------|
| G         | x68989  | x43VZ.00          | Pr   | Buprenorphine 2mg oral lyophilisates sugar free                                             | b           | Ex     | <50                | <50              | <50       | 80%       | 47.1             | 44%    |
| G         | x76523  | x5649SB           | Pr   | Methadone 1mg/ml oral solution (Teva UK Ltd)                                                | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x24361  | x7B00200          | Pr   | Methadose 20mg/ml oral solution concentrate (Rosemont Pharmaceuticals Ltd)                  | m           | Ex     | <50                | <50              | <50       | 0%        | 45.1             | 100%   |
| G         | x24343  | x23Z..00          | Pr   | Methadose 10mg/ml oral solution concentrate (Rosemont Pharmaceuticals Ltd)                  | m           | Ex     | <50                | <50              | <50       | 70%       | 42.7             | 54%    |
| G         | x29304  | x2693.00          | Pr   | Physeptone 10mg/1ml solution for injection ampoules (Martindale Pharmaceuticals Ltd)        | m           | Ex     | <50                | <50              | <50       | 50%       | 43.6             | 100%   |
| G         | x21337  | x14A8.11          | Pr   | METHADONE 15 MG SUP                                                                         | m           | Ex     | <50                | <50              | <50       | 50%       | 43.3             | 0%     |
| G         | x71711  | xK534200          | Pr   | Busiete 10micrograms/hour transdermal patches (Teva UK Ltd)                                 | b           | Ex     | <50                | <50              | <50       | 100%      | 74.0             | 0%     |
| G         | x60944  | xZ375.00          | Pr   | Methadone 5mg capsules                                                                      | m           | Ex     | <50                | <50              | <50       | 100%      | 39.3             | 100%   |
| G         | x71695  | xSLD2.00          | Pr   | Prefibin 0.4mg sublingual tablets (Sandoz Ltd)                                              | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x74863  | x9450L            | Pr   | Buprenorphine 400microgram sublingual tablets sugar free (Kent Pharmaceuticals Ltd)         | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x61100  | xP51y.11          | Pr   | Tephine 400microgram sublingual tablets (Sandoz Ltd)                                        | b           | Ex     | <50                | <50              | <50       | 0%        | 39.6             | 100%   |
| G         | x6547   | x2B70.00          | Pr   | Buprenorphine 2mg sublingual tablets sugar free                                             | b           | Def    | 1935               | 1309             | 626       | 32%       | 36.6 (30.2-45.6) | 65%    |
| G         | x33475  | xS321200          | Pr   | Methadone 35mg/ml Injection                                                                 | m           | Ex     | <50                | <50              | <50       | 100%      | 73.3             | 0%     |
| G         | x40212  | x46TS.00          | Pr   | Buprenorphine 8mg sublingual tablets sugar free (Teva UK Ltd)                               | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x7555   | xK20..15          | Pr   | BuTrans 5micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)                     | b           | Ex     | 51269              | 247              | 51022     | 100%      | 74.8 (61.1-84.0) | 28%    |
| G         | x17671  | x4322000          | Pr   | Methadone 50mg/1ml solution for injection ampoules                                          | m           | Ex     | <50                | <50              | <50       | 60%       | 37.4             | 74%    |
| G         | x68988  | x46PE.00          | Pr   | Buprenorphine 8mg oral lyophilisates sugar free                                             | b           | Ex     | <50                | <50              | <50       | 90%       | 41.2             | 56%    |
| G         | x64155  | x7015y00          | Pr   | Buprenorphine 400microgram sublingual tablets sugar free (Teva UK Ltd)                      | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x67018  | xBB5D.00          | Pr   | Buprenorphine 35micrograms/hour transdermal patches (A A H Pharmaceuticals Ltd)             | b           | Ex     | <50                | <50              | <50       | 100%      | 76.4             | 0%     |
| G         | x74562  | xK964 HA          | Pr   | Carlosafine 35micrograms/hour transdermal patches (Glenmark Pharmaceuticals Europe Ltd)     | b           | Ex     | <50                | <50              | <50       | 100%      | 91.0             | 0%     |
| G         | x46578  | xH321.00          | Pr   | Physeptone 20mg/2ml solution for injection ampoules (Martindale Pharmaceuticals Ltd)        | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x6056   | x13H3.00          | Pr   | Buprenorphine 8mg sublingual tablets sugar free                                             | b           | Def    | 1226               | 833              | 393       | 32%       | 34.5 (29.1-41.0) | 74%    |
| G         | x63788  | xSD3z.00          | Pr   | Buprenorphine 1mg sublingual tablets sugar free                                             | b           | Ex     | <50                | <50              | <50       | 80%       | 47.5             | 55%    |
| G         | x5322   | x7E1..00          | Pr   | Physeptone 5mg tablets (Martindale Pharmaceuticals Ltd)                                     | m           | Ex     | 380                | 226              | 154       | 41%       | 38.1 (32.2-45.5) | 68%    |
| G         | x50380  | xSP35400          | Pr   | Subutex 2mg sublingual tablets (Lexon (UK) Ltd)                                             | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x33832  | x133..00          | Pr   | Methadone 1mg/ml oral solution (Martindale Pharmaceuticals Ltd)                             | m           | Def    | 103                | 0-10             | 100-110   | 100%      | 27.6 (23.3-33.9) | 69%    |
| G         | x69243  | xPB52z00          | Pr   | Bupeaze 52.5micrograms/hour transdermal patches (Dr Reddy's Laboratories (UK) Ltd)          | b           | Ex     | <50                | <50              | <50       | 90%       | 63.5             | 33%    |
| G         | x30531  | x7H0B000          | Pr   | Methadone 1mg/ml oral solution sugar free (Rosemont Pharmaceuticals Ltd)                    | m           | Ex     | <50                | <50              | <50       | 20%       | 36.3             | 60%    |
| G         | x62675  | x461W.00          | Pr   | Buprenorphine 200microgram sublingual tablets sugar free (A A H Pharmaceuticals Ltd)        | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x12132  | xS91..00          | Pr   | METHADONE 5 MG/ML INJ                                                                       | m           | Ex     | <50                | <50              | <50       | 20%       | 28.5             | 71%    |
| G         | x68559  | xU100000          | Pr   | Panitaz 10micrograms/hour transdermal patches (Dr Reddy's Laboratories (UK) Ltd)            | b           | Ex     | <50                | <50              | <50       | 100%      | 60.7             | 33%    |
| G         | x72098  | x66H5.00          | Pr   | Turgeon 35micrograms/hour transdermal patches (Teva UK Ltd)                                 | b           | Ex     | <50                | <50              | <50       | 100%      | 54.2             | 0%     |
| G         | x22620  | x2E3..00          | Pr   | PHYSEPTONE 2 MG LIN                                                                         | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x40211  | x44LB.00          | Pr   | Buprenorphine 2mg sublingual tablets sugar free (Teva UK Ltd)                               | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x38311  | xSP22.00          | Pr   | Naloxone hc 2mg + 8mg Tablet                                                                | b           | Ex     | <50                | <50              | <50       | 0%        | 31.9             | 100%   |
| G         | x57454  | xZ897K11          | Pr   | Prefibin 8mg sublingual tablets (Sandoz Ltd)                                                | b           | Ex     | <50                | <50              | <50       | 0%        | 32.3             | 100%   |
| G         | x13031  | xTJC2400          | Pr   | Subutex 0.4mg sublingual tablets (Indivior UK Ltd)                                          | b           | Def    | 961                | 783              | 178       | 19%       | 33.6 (27.6-39.4) | 72%    |
| G         | x67342  | xBB5U100          | Pr   | Methadone 50mg/1ml solution for injection ampoules (Alliance Healthcare (Distribution) Ltd) | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x62776  | xQ037.11          | Pr   | Buprenorphine 4mg sublingual tablets sugar free                                             | b           | Ex     | <50                | <50              | <50       | 50%       | 36.6             | 73%    |
| G         | x37507  | xBBM5.00          | Pr   | Physeptone 50mg/1ml solution for injection ampoules (Martindale Pharmaceuticals Ltd)        | m           | Ex     | <50                | <50              | <50       | 0%        | 37.2             | 100%   |
| G         | x70461  | xT328100          | Pr   | Bupramyl 5micrograms/hour transdermal patches (Mylan)                                       | b           | Ex     | <50                | <50              | <50       | 100%      | 84.2             | 39%    |
| G         | x23158  | x46QZ.00          | Pr   | Methadone 20mg/ml oral solution sugar free                                                  | m           | Ex     | <50                | <50              | <50       | 40%       | 39.8             | 74%    |
| G         | x32526  | x14AA.00          | Pr   | METHADONE GREEN S/F                                                                         | m           | Ex     | <50                | <50              | <50       | 70%       | 22.5             | 33%    |
| G         | x35170  | x7NA5V00          | Pr   | Suboxone 2mg/500microgram sublingual tablets (Indivior UK Ltd)                              | b           | Def    | 674                | 195              | 479       | 71%       | 35.9 (30.9-42.0) | 69%    |
| G         | x6441   | x26..00           | Pr   | Methadone 5mg tablets                                                                       | m           | Ex     | 1140               | 591              | 549       | 48%       | 41.4 (32.0-54.8) | 60%    |
| G         | x75719  | xY10 HC           | Pr   | Physeptone 50mg/2ml solution for injection ampoules (Martindale Pharmaceuticals Ltd)        | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x7236   | x7C08400          | Pr   | Buprenorphine 10micrograms/hour transdermal patches                                         | b           | Ex     | 20432              | 200              | 20232     | 99%       | 72.4 (58.0-82.4) | 30%    |
| G         | x70117  | xS950200          | Pr   | Panitaz 20micrograms/hour transdermal patches (Dr Reddy's Laboratories (UK) Ltd)            | b           | Ex     | <50                | <50              | <50       | 100%      | 74.3             | 13%    |
| G         | x73146  | xAyu8B00          | Pr   | Prefibin 2mg sublingual tablets (Sandoz Ltd)                                                | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x66695  | x7M26200          | Pr   | Buteac 20micrograms/hour transdermal patches (Qdem Pharmaceuticals Ltd)                     | b           | Ex     | 1920               | 10-10            | 1910-1910 | 100%      | 71.4 (58.4-82.5) | 32%    |
| G         | x37518  | xC0A3.00          | Pr   | Methadone 35mg/3.5ml solution for injection ampoules                                        | m           | Ex     | <50                | <50              | <50       | 0%        | 60.7             | 100%   |

| Data-base | Medcode | ReadCode / SNOMED | Type | Term                                                                                           | Meth / bupe | Status | Number in database | Number in cohort | Dropped   | % dropped | Median age (IQR) | % Male |
|-----------|---------|-------------------|------|------------------------------------------------------------------------------------------------|-------------|--------|--------------------|------------------|-----------|-----------|------------------|--------|
| G         | x24584  | x25D.11           | Pr   | Methadone 50mg/2ml solution for injection ampoules                                             | m           | Ex     | <50                | <50              | <50       | 80%       | 48.6             | 63%    |
| G         | x66921  | x7A6H400          | Pr   | Methadone 1mg/ml oral solution sugar free (Waymade Healthcare Plc)                             | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x62874  | x2IB2.00          | Pr   | Buprenorphine 6mg sublingual tablets sugar free                                                | b           | Ex     | <50                | <50              | <50       | 40%       | 41.8             | 75%    |
| G         | x70065  | x0812.00          | Pr   | Espranor 2mg oral lyophilisates (Martindale Pharmaceuticals Ltd)                               | b           | Ex     | <50                | <50              | <50       | 100%      | 33.6             | 43%    |
| G         | x66463  | xPG1wz00          | Pr   | Buprenorphine 15micrograms/hour transdermal patches                                            | b           | Ex     | 387                | 0-10             | 380-390   | 100%      | 74.8 (60.6-83.6) | 21%    |
| G         | x54806  | x42N6.00          | Pr   | Transtec 52.5micrograms/hour transdermal patches (DE Pharmaceuticals)                          | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x70631  | x8BA0.00          | Pr   | Relevtec 52.5micrograms/hour transdermal patches (Sandoz Ltd)                                  | b           | Ex     | <50                | <50              | <50       | 100%      | 59.0             | 42%    |
| G         | x68196  | xSJB1.00          | Pr   | Reletrans 15micrograms/hour transdermal patches (Sandoz Ltd)                                   | b           | Ex     | 217                | 0-10             | 210-220   | 100%      | 75.4 (63.7-85.1) | 25%    |
| G         | x68959  | xJ23z300          | Pr   | Methadone 20mg/5ml oral solution                                                               | m           | Ex     | <50                | <50              | <50       | 100%      | 32.1             | 0%     |
| G         | x62708  | xS49Ez00          | Pr   | Methadone hydrochloride powder                                                                 | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x71410  | x2I95.00          | Pr   | Suboxone 8mg/2mg sublingual tablets (Mawdsley-Brooks & Company Ltd)                            | b           | Ex     | <50                | <50              | <50       | 100%      | 34.2             | 67%    |
| G         | x69942  | xZM53N00          | Pr   | Buprenorphine 400microgram sublingual tablets sugar free (Phoenix Healthcare Distribution Ltd) | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x63640  | xF461B11          | Pr   | Subutex 2mg sublingual tablets (DE Pharmaceuticals)                                            | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x59473  | x0AH5.00          | Pr   | Hapoctasin 52.5micrograms/hour transdermal patches (Actavis UK Ltd)                            | b           | Ex     | <50                | <50              | <50       | 100%      | 62.4             | 37%    |
| G         | x26277  | x7B38400          | Pr   | Physeptone 1mg/ml mixture (Martindale Pharmaceuticals Ltd)                                     | m           | Def    | 231                | 133              | 98        | 42%       | 37.7 (32.4-44.5) | 68%    |
| G         | x71310  | x7M23100          | Pr   | Bupramyl 20micrograms/hour transdermal patches (Mylan)                                         | b           | Ex     | <50                | <50              | <50       | 100%      | 71.7             | 0%     |
| G         | x35169  | x7646y00          | Pr   | Suboxone 8mg/2mg sublingual tablets (Indivior UK Ltd)                                          | b           | Def    | 630                | 198              | 432       | 69%       | 36.0 (31.1-41.8) | 70%    |
| G         | x39437  | x7A4A300          | Pr   | Eptadone 1mg/ml oral solution (Dee Pharmaceuticals Ltd)                                        | m           | Ex     | <50                | <50              | <50       | 0%        | 49.1             | 0%     |
| G         | x70124  | xS499700          | Pr   | Relevtec 70micrograms/hour transdermal patches (Sandoz Ltd)                                    | b           | Ex     | <50                | <50              | <50       | 100%      | 77.3             | 13%    |
| G         | x70066  | x0449.00          | Pr   | Espranor 8mg oral lyophilisates (Martindale Pharmaceuticals Ltd)                               | b           | Ex     | <50                | <50              | <50       | 100%      | 33.7             | 44%    |
| G         | x41608  | x7B27600          | Pr   | Methadone 1mg/ml oral solution (Rosemont Pharmaceuticals Ltd)                                  | m           | Ex     | <50                | <50              | <50       | 100%      | 38.6             | 100%   |
| G         | x68172  | xZ121700          | Pr   | Reletrans 20micrograms/hour transdermal patches (Sandoz Ltd)                                   | b           | Ex     | 305                | 0-0              | 300-310   | 100%      | 71.7 (61.1-82.7) | 28%    |
| G         | x35681  | x64U5.00          | Pr   | Buprenorphine 2mg / Naloxone 500microgram sublingual tablets sugar free                        | b           | Def    | 77                 | 30-40            | 40-50     | 50%       | 38.1 (31.3-48.3) | 66%    |
| G         | x71630  | xSH42.11          | Pr   | Natzon 0.4mg sublingual tablets (Morningside Healthcare Ltd)                                   | b           | Ex     | <50                | <50              | <50       | 100%      | 57.7             | 100%   |
| G         | x59295  | x7313413          | Pr   | Methadone 100mg capsules                                                                       | m           | Ex     | <50                | <50              | <50       | 100%      | 27.1             | 0%     |
| G         | x69053  | xA702.00          | Pr   | Pinadone methadone 1mg/ml Oral solution sugar free (Pinewood Healthcare)                       | m           | Ex     | <50                | <50              | <50       | 100%      | 19.5             | 100%   |
| G         | x60943  | xZ134100          | Pr   | Transtec 35micrograms/hour transdermal patches (Sigma Pharmaceuticals Plc)                     | b           | Ex     | <50                | <50              | <50       | 100%      | 49.2             | 0%     |
| G         | x68889  | xBBE4.00          | Pr   | Sevodyne 10micrograms/hour transdermal patches (Aspire Pharma Ltd)                             | b           | Ex     | <50                | <50              | <50       | 100%      | 79.1             | 33%    |
| G         | x32237  | x13pP.00          | Pr   | Methex 1mg/ml Mixture (Generics (UK) Ltd)                                                      | m           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x29769  | xSP09300          | Pr   | Methadone 2mg/5ml Oral solution (Martindale Pharmaceuticals Ltd)                               | m           | Ex     | <50                | <50              | <50       | 100%      | 67.1             | 100%   |
| G         | x35682  | xC390.11          | Pr   | Buprenorphine 8mg / Naloxone 2mg sublingual tablets sugar free                                 | b           | Def    | 58                 | 30-30            | 20-30     | 50%       | 39.7 (32.1-44.6) | 76%    |
| G         | x7334   | xN06z511          | Pr   | Buprenorphine 5micrograms/hour transdermal patches                                             | b           | Ex     | 28996              | 201              | 28795     | 99%       | 74.4 (60.6-83.8) | 27%    |
| G         | x40473  | x7B42.00          | Pr   | Buprenorphine 300micrograms/1ml solution for injection ampoules                                | b           | Ex     | <50                | <50              | <50       | 80%       | 77.0             | 17%    |
| G         | x70267  | xPF5y600          | Pr   | Methadone 15mg/5ml oral solution                                                               | m           | Ex     | <50                | <50              | <50       | 100%      | 52.5             | 0%     |
| G         | x58766  | x7J0z.00          | Pr   | BuTrans 10micrograms/hour transdermal patches (Waymade Healthcare Plc)                         | b           | Ex     | <50                | <50              | <50       | 100%      | 76.8             | 0%     |
| G         | x67356  | xJ111400          | Pr   | Transtec 70micrograms/hour transdermal patches (Lexon (UK) Ltd)                                | b           | Ex     | <50                | <50              | <50       | 100%      | 39.8             | 0%     |
| G         | x14086  | x62G8.00          | Pr   | Methadone 10mg/ml Injection                                                                    | m           | Ex     | 148                | 100-110          | 40-50     | 30%       | 34.4 (28.7-42.3) | 68%    |
| G         | x66689  | xU602316          | Pr   | Butech 5micrograms/hour transdermal patches (Qdem Pharmaceuticals Ltd)                         | b           | Ex     | 6274               | 10-20            | 6260-6270 | 100%      | 77.2 (64.3-85.8) | 28%    |
| G         | x6181   | xH061400          | Pr   | Transtec 70micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)                      | b           | Ex     | 1244               | 40-40            | 1200-1210 | 100%      | 63.6 (50.5-76.0) | 37%    |
| G         | x396    | xN05.11           | Pr   | Buprenorphine 200microgram sublingual tablets sugar free                                       | b           | Ex     | 12116              | 869              | 11247     | 93%       | 56.1 (43.0-69.5) | 38%    |
| G         | x11584  | xZLD3B00          | Pr   | Buprenorphine 70micrograms/hour transdermal patches                                            | b           | Ex     | 1291               | 72               | 1219      | 94%       | 65.3 (51.6-77.6) | 35%    |
| G         | x6210   | x1517.11          | Pr   | Subutex 8mg sublingual tablets (Indivior UK Ltd)                                               | b           | Def    | 2120               | 1717             | 403       | 19%       | 31.9 (26.5-37.8) | 75%    |
| G         | x320    | x7M37100          | Pr   | Buprenorphine HCl 300micrograms injection                                                      | b           | Ex     | <50                | <50              | <50       | 90%       | 50.4             | 31%    |
| G         | x70464  | xN081500          | Pr   | Subutex 2mg sublingual tablets (Waymade Healthcare Plc)                                        | b           | Ex     | <50                | <50              | <50       | 100%      | 37.5             | 100%   |
| G         | x68910  | xZRVV900          | Pr   | Suboxone 16mg/4mg sublingual tablets (Indivior UK Ltd)                                         | b           | Ex     | <50                | <50              | <50       | 100%      | 41.4             | 76%    |
| G         | x60053  | xByu.00           | Pr   | Tephine 200microgram sublingual tablets (Sandoz Ltd)                                           | b           | Ex     | <50                | <50              | <50       | 80%       | 58.8             | 50%    |
| G         | x6917   | xS336.00          | Pr   | Buprenorphine 52.5micrograms/hour transdermal patches                                          | b           | Ex     | 2440               | 99               | 2341      | 96%       | 65.4 (51.9-77.6) | 34%    |
| G         | x6040   | xN226500          | Pr   | Transtec 52.5micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)                    | b           | Ex     | 2424               | 55               | 2369      | 98%       | 63.6 (51.0-76.6) | 36%    |
| G         | x24414  | x9DG0.00          | Pr   | TEMGESIC                                                                                       | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x41720  | xSD01.11          | Pr   | Methadone 1mg/ml Mixture (Macarthy Medical Ltd)                                                | m           | Ex     | <50                | <50              | <50       | 100%      | 32.1             | 100%   |
| G         | x59146  | x9832.00          | Pr   | BuTrans 20micrograms/hour transdermal patches (Waymade Healthcare Plc)                         | b           | Ex     | <50                | <50              | <50       | 100%      | 60.0             | 0%     |

| Data-base | Medcode | ReadCode / SNOMED | Type | Term                                                                              | Meth / bupe | Status | Number in database | Number in cohort | Dropped | % dropped | Median age (IQR) | % Male |
|-----------|---------|-------------------|------|-----------------------------------------------------------------------------------|-------------|--------|--------------------|------------------|---------|-----------|------------------|--------|
| G         | x55825  | x7A12y00          | Pr   | Methadone 1mg/ml oral solution sugar free (Thornton & Ross Ltd)                   | m           | Def    | 52                 | 50-50            | 0-10    | 0%        | 28.1 (23.8-33.1) | 85%    |
| G         | x69795  | xPF01800          | Pr   | Prenotrix 35micrograms/hour transdermal patches (Genesis Pharmaceuticals Ltd)     | b           | Ex     | <50                | <50              | <50     | 100%      | 86.3             | 100%   |
| G         | x3522   | xTE53100          | Pr   | Temgesic 200microgram sublingual tablets (Indivior UK Ltd)                        | b           | Ex     | 11791              | 271              | 11520   | 98%       | 53.8 (41.9-67.2) | 40%    |
| G         | x7238   | x7H1B200          | Pr   | Buprenorphine 20micrograms/hour transdermal patches                               | b           | Ex     | 8878               | 137              | 8741    | 99%       | 70.1 (55.3-80.7) | 31%    |
| G         | x72160  | x4I3G.00          | Pr   | Turgeon 52.5micrograms/hour transdermal patches (Teva UK Ltd)                     | b           | Ex     | <50                | <50              | <50     | 100%      | 69.8             | 0%     |
| G         | x70460  | x7B10000          | Pr   | Bupramyl 10micrograms/hour transdermal patches (Mylan)                            | b           | Ex     | <50                | <50              | <50     | 100%      | 73.6             | 33%    |
| G         | x59618  | xA862.00          | Pr   | Transtec 35micrograms/hour transdermal patches (Mawdsley-Brooks & Company Ltd)    | b           | Ex     | -                  | -                | -       | -         | -                | -      |
| G         | x68402  | x7A33C00          | Pr   | Panitaz 5micrograms/hour transdermal patches (Dr Reddy's Laboratories (UK) Ltd)   | b           | Ex     | <50                | <50              | <50     | 100%      | 72.6             | 14%    |
| G         | x28861  | xL398500          | Pr   | METHADONE 50 MG SUP                                                               | m           | Ex     | <50                | <50              | <50     | 0%        | 26.7             | 100%   |
| G         | x70283  | xZR6v100          | Pr   | Buprenorphine 16mg / Naloxone 4mg sublingual tablets sugar free                   | b           | Ex     | <50                | <50              | <50     | 100%      | 31.6             | 100%   |
| G         | x67901  | xH24y100          | Pr   | Transtec 52.5micrograms/hour transdermal patches (Lexon (UK) Ltd)                 | b           | Ex     | -                  | -                | -       | -         | -                | -      |
| G         | x64847  | x9883.00          | Pr   | Gabup 8mg sublingual tablets (Martindale Pharmaceuticals Ltd)                     | b           | Ex     | <50                | <50              | <50     | 0%        | 29.8             | 100%   |
| G         | x24446  | xG63y100          | Pr   | METHADONE 100 MG SUP                                                              | m           | Ex     | -                  | -                | -       | -         | -                | -      |
| G         | x5211   | x8771.00          | Pr   | Methadone 2mg/5ml linctus                                                         | m           | Ex     | 609                | 51               | 558     | 92%       | 66.7 (55.3-75.4) | 53%    |
| G         | x68848  | xN07y400          | Pr   | Buplast 52.5micrograms/hour transdermal patches (Mylan)                           | b           | Ex     | <50                | <50              | <50     | 100%      | 82.3             | 0%     |
| G         | x35269  | x94Z0.00          | Pr   | Temgesic 300micrograms/1ml solution for injection ampoules (Indivior UK Ltd)      | b           | Ex     | <50                | <50              | <50     | 80%       | 65.6             | 20%    |
| G         | x73406  | x7614200          | Pr   | Bunov 5micrograms/hour transdermal patches (Glenmark Pharmaceuticals Europe Ltd)  | b           | Ex     | -                  | -                | -       | -         | -                | -      |
| G         | x33068  | x0421.00          | Pr   | Methadone 10mg/1ml solution for injection ampoules                                | m           | Def    | 89                 | 30-40            | 50-60   | 60%       | 47.8 (39.7-60.7) | 65%    |
| G         | x23948  | xPCy2000          | Pr   | METHADONE 20 MG SUP                                                               | m           | Ex     | <50                | <50              | <50     | 0%        | 27.2             | 78%    |
| G         | x66280  | x0C59.00          | Pr   | BuTrans 15micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)          | b           | Ex     | 703                | 0-10             | 690-700 | 100%      | 74.5 (59.4-82.9) | 29%    |
| G         | x68472  | xZ622111          | Pr   | Prenotrix 52.5micrograms/hour transdermal patches (Genesis Pharmaceuticals Ltd)   | b           | Ex     | <50                | <50              | <50     | 100%      | 56.3             | 50%    |
| G         | x25046  | x2272.00          | Pr   | Methadone diluent Liquid                                                          | m           | Ex     | <50                | <50              | <50     | 70%       | 31.7             | 78%    |
| G         | x60170  | xN090W00          | Pr   | Hapoctasin 35micrograms/hour transdermal patches (Actavis UK Ltd)                 | b           | Ex     | 91                 | 0-10             | 90-90   | 100%      | 63.8 (54.8-81.6) | 34%    |
| G         | x24192  | xK57y300          | Pr   | TEMGESIC                                                                          | b           | Ex     | -                  | -                | -       | -         | -                | -      |
| G         | x17896  | xJ053.00          | Pr   | Physeptone 10mg/ml Injection (Martindale Pharmaceuticals Ltd)                     | m           | Ex     | <50                | <50              | <50     | 20%       | 37.2             | 67%    |
| G         | x2952   | xK310111          | Pr   | Methadone 1mg/ml oral solution                                                    | m           | Def    | 11302              | 6606             | 4696    | 42%       | 31.5 (26.0-38.2) | 69%    |
| G         | x43766  | xZ1G2121          | Pr   | Eptadone 5mg/ml oral solution (Dee Pharmaceuticals Ltd)                           | m           | Ex     | <50                | <50              | <50     | 0%        | 50.5             | 0%     |
| G         | x68890  | xZC26500          | Pr   | Sevodyne 5micrograms/hour transdermal patches (Aspire Pharma Ltd)                 | b           | Ex     | <50                | <50              | <50     | 100%      | 79.8             | 42%    |
| G         | x68888  | xP65..11          | Pr   | Sevodyne 20micrograms/hour transdermal patches (Aspire Pharma Ltd)                | b           | Ex     | <50                | <50              | <50     | 100%      | 71.5             | 33%    |
| G         | x3064   | x7E04.12          | Pr   | Buprenorphine 400microgram sublingual tablets sugar free                          | b           | Def    | 2581               | 1570             | 1011    | 39%       | 47.9 (36.8-62.1) | 50%    |
| G         | x47706  | x7M14.00          | Pr   | Methadone 1mg/ml oral solution sugar free (Martindale Pharmaceuticals Ltd)        | m           | Def    | 93                 | 0-0              | 90-100  | 100%      | 25.9 (23.0-31.8) | 67%    |
| G         | x69254  | xL264200          | Pr   | Buplast 35micrograms/hour transdermal patches (Mylan)                             | b           | Ex     | <50                | <50              | <50     | 100%      | 85.9             | 0%     |
| G         | x59392  | x7319.00          | Pr   | Hapoctasin 70micrograms/hour transdermal patches (Actavis UK Ltd)                 | b           | Ex     | <50                | <50              | <50     | 90%       | 58.8             | 24%    |
| G         | x26801  | x04A7.00          | Pr   | Methadone colourant for Liquid                                                    | m           | Ex     | <50                | <50              | <50     | 60%       | 30.4             | 71%    |
| G         | x64463  | xS5J..00          | Pr   | Methadone 30mg capsules                                                           | m           | Ex     | -                  | -                | -       | -         | -                | -      |
| G         | x5936   | x1CA2.00          | Pr   | Transtec 35micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)         | b           | Ex     | 5714               | 83               | 5631    | 99%       | 66.8 (52.8-78.5) | 33%    |
| G         | x7457   | xG576.00          | Pr   | Temgesic 0.3mg/ml Injection (Reckitt Benckiser Healthcare (UK) Ltd)               | b           | Ex     | 221                | 0-10             | 210-220 | 100%      | 50.8 (39.2-65.2) | 42%    |
| G         | x36436  | x3318.11          | Pr   | Methadone 50mg/5ml solution for injection ampoules                                | m           | Ex     | <50                | <50              | <50     | 60%       | 48.0             | 60%    |
| G         | x13300  | xQ477.00          | Pr   | BuTrans 20micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)          | b           | Ex     | 13174              | 145              | 13029   | 99%       | 69.9 (55.5-80.8) | 31%    |
| G         | x9728   | x1DCZ..00         | Pr   | Methadone 1mg/ml oral solution sugar free                                         | m           | Def    | 6265               | 3073             | 3192    | 51%       | 33.2 (27.9-39.5) | 66%    |
| G         | x58273  | xY10..B           | Pr   | Buprenorphine 2mg sublingual tablets sugar free (A A H Pharmaceuticals Ltd)       | b           | Ex     | -                  | -                | -       | -         | -                | -      |
| G         | x8017   | xN013.00          | Pr   | Temgesic 400microgram sublingual tablets (Indivior UK Ltd)                        | b           | Ex     | 1459               | 145              | 1314    | 90%       | 52.4 (41.7-64.9) | 47%    |
| G         | x33380  | x63C2.00          | Pr   | Methadose diluent oral solution sugar free (Rosemont Pharmaceuticals Ltd)         | m           | Ex     | <50                | <50              | <50     | 70%       | 36.5             | 67%    |
| G         | x75334  | xK914 EB          | Pr   | Bunov 10micrograms/hour transdermal patches (Glenmark Pharmaceuticals Europe Ltd) | b           | Ex     | -                  | -                | -       | -         | -                | -      |
| G         | x29911  | xS4F..00          | Pr   | Methadone 2mg/5ml linctus (Thornton & Ross Ltd)                                   | m           | Ex     | <50                | <50              | <50     | 100%      | 71.7             | 0%     |
| G         | x68743  | xC30..00          | Pr   | Bupeaze 35micrograms/hour transdermal patches (Dr Reddy's Laboratories (UK) Ltd)  | b           | Ex     | <50                | <50              | <50     | 100%      | 68.9             | 10%    |
| G         | x69315  | xJ09y400          | Pr   | Buteac 15micrograms/hour transdermal patches (Qdem Pharmaceuticals Ltd)           | b           | Ex     | 839                | 0-10             | 830-840 | 100%      | 72.9 (58.8-82.8) | 27%    |
| G         | x23947  | x7M2C200          | Pr   | METHADONE 30 MG SUP                                                               | m           | Ex     | <50                | <50              | <50     | 0%        | 24.6             | 100%   |
| G         | x63077  | xQ00y.00          | Pr   | Methadone 1mg/5ml oral suspension                                                 | m           | Ex     | <50                | <50              | <50     | 100%      | 86.2             | 100%   |
| G         | x21562  | xH121200          | Pr   | Physeptone 1mg/ml oral solution sugar free (Martindale Pharmaceuticals Ltd)       | m           | Def    | 488                | 335              | 153     | 31%       | 35.9 (30.7-43.0) | 69%    |
| G         | x68167  | xT0y0z00          | Pr   | Reletrans 5micrograms/hour transdermal patches (Sandoz Ltd)                       | b           | Ex     | 890                | 0-10             | 880-890 | 100%      | 80.8 (70.1-87.7) | 24%    |

| Data-base | Medcode | ReadCode / SNOMED | Type | Term                                                                             | Meth / bupe | Status | Number in database | Number in cohort | Dropped   | % dropped | Median age (IQR) | % Male |
|-----------|---------|-------------------|------|----------------------------------------------------------------------------------|-------------|--------|--------------------|------------------|-----------|-----------|------------------|--------|
| G         | x66470  | xZV12300          | Pr   | Buteac 10micrograms/hour transdermal patches (Qdem Pharmaceuticals Ltd)          | b           | Ex     | 4503               | 10-20            | 4480-4490 | 100%      | 75.2 (61.4-84.6) | 28%    |
| G         | x10077  | x7K6P.L00         | Pr   | Subutex 2mg sublingual tablets (Indivior UK Ltd)                                 | b           | Def    | 2663               | 2164             | 499       | 19%       | 31.5 (26.2-37.5) | 72%    |
| G         | x73545  | xJ045500          | Pr   | Busiete 20micrograms/hour transdermal patches (Teva UK Ltd)                      | b           | Ex     | <50                | <50              | <50       | 100%      | 73.7             | 0%     |
| G         | x56671  | xTGy2.00          | Pr   | BuTrans 5micrograms/hour transdermal patches (Waymade Healthcare Plc)            | b           | Ex     | <50                | <50              | <50       | 100%      | 79.4             | 0%     |
| G         | x43260  | x46HZ.00          | Pr   | Methadone Oral solution                                                          | m           | Ex     | <50                | <50              | <50       | 100%      | 35.1             | 83%    |
| G         | x11722  | x7K6aD00          | Pr   | Methadone 10mg/ml oral solution sugar free                                       | m           | Def    | 195                | 109              | 86        | 44%       | 44.8 (36.1-55.3) | 60%    |
| G         | x23769  | xPA13.00          | Pr   | METHADONE 25 MG SUP                                                              | m           | Ex     | <50                | <50              | <50       | 0%        | 35.2             | 100%   |
| G         | x62969  | x7J16400          | Pr   | Buprenorphine 8mg sublingual tablets sugar free (Zentiva)                        | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x28328  | xZLF3100          | Pr   | Metharose 1mg/ml oral solution sugar free (Rosemont Pharmaceuticals Ltd)         | m           | Ex     | <50                | <50              | <50       | 60%       | 32.1             | 33%    |
| G         | x74337  | xK691.TB          | Pr   | Busiete 5micrograms/hour transdermal patches (Teva UK Ltd)                       | b           | Ex     | <50                | <50              | <50       | 100%      | 45.8             | 0%     |
| G         | x68479  | xBBc7.11          | Pr   | Bupeaze 70micrograms/hour transdermal patches (Dr Reddy's Laboratories (UK) Ltd) | b           | Ex     | <50                | <50              | <50       | 100%      | 68.9             | 30%    |
| G         | x24440  | xF410500          | Pr   | Methodex 1mg/ml Mixture (Link Pharmaceuticals Ltd)                               | m           | Ex     | <50                | <50              | <50       | 0%        | 27.4             | 0%     |
| G         | x68241  | x44uO.00          | Pr   | Reletrans 10micrograms/hour transdermal patches (Sandoz Ltd)                     | b           | Ex     | 656                | 0-10             | 650-660   | 100%      | 75.8 (63.7-84.8) | 25%    |
| G         | x42074  | x7K50z00          | Pr   | Naloxone hc 500micrograms + 2mg Tablet                                           | b           | Ex     | <50                | <50              | <50       | 0%        | 33.8             | 100%   |
| G         | x36994  | x3983.00          | Pr   | Methadone 5mg/ml oral solution                                                   | m           | Ex     | <50                | <50              | <50       | 40%       | 42.9             | 48%    |
| G         | x35506  | xZX11300          | Pr   | Methadone 20mg/2ml solution for injection ampoules                               | m           | Ex     | <50                | <50              | <50       | 90%       | 58.2             | 40%    |
| G         | x15449  | x8B3C.00          | Pr   | METHADONE 40 MG SUP                                                              | m           | Ex     | <50                | <50              | <50       | 0%        | 29.8             | 50%    |
| G         | x6879   | xA57y111          | Pr   | Buprenorphine 35micrograms/hour transdermal patches                              | b           | Ex     | 5953               | 158              | 5795      | 97%       | 67.4 (53.6-79.0) | 31%    |
| G         | x10205  | xZG9..00          | Pr   | BuTrans 10micrograms/hour transdermal patches (Napp Pharmaceuticals Ltd)         | b           | Ex     | 33419              | 232              | 33187     | 99%       | 72.5 (58.4-82.5) | 30%    |
| G         | x59970  | x0E29.12          | Pr   | Buprenorphine 2mg sublingual tablets sugar free (Actavis UK Ltd)                 | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x65157  | x6744.00          | Pr   | Buprenorphine 2mg sublingual tablets sugar free (Sigma Pharmaceuticals Plc)      | b           | Ex     | -                  | -                | -         | -         | -                | -      |
| G         | x70139  | xP401300          | Pr   | Relevtec 35micrograms/hour transdermal patches (Sandoz Ltd)                      | b           | Ex     | <50                | <50              | <50       | 100%      | 75.8             | 42%    |
| G         | x111551 | x1V33.00          | Me   | Groin injector                                                                   | -           | Prob   | <50                | <50              | <50       | 100%      | 36.9             | 100%   |
| G         | x106705 | x1V3A.00          | Me   | Does not share drug injection equipment                                          | -           | Prob   | <50                | <50              | <50       | 50%       | 38.7             | 100%   |
| G         | x107780 | x1V32.00          | Me   | Neck injector                                                                    | -           | Prob   | <50                | <50              | <50       | 100%      | 49.9             | 0%     |
| G         | x95957  | x13cN.00          | Me   | Has never shared drug injection equipment                                        | -           | Prob   | <50                | <50              | <50       | 30%       | 30.3             | 89%    |
| G         | x97000  | x1V3..00          | Me   | Drug injection behaviour                                                         | -           | Prob   | <50                | <50              | <50       | 80%       | 42.1             | 67%    |
| G         | x27960  | xE240300          | Me   | Opioid dependence in remission                                                   | -           | Def    | 89                 | 60-70            | 20-30     | 30%       | 31.1 (25.9-40.1) | 76%    |
| G         | x52451  | xE248300          | Me   | Combined opioid with other drug dependence in remission                          | -           | Def    | <50                | <50              | <50       | 50%       | 30.5             | 50%    |
| G         | x86771  | x1T13.00          | Me   | Previous history of methadone misuse                                             | -           | Def    | <50                | <50              | <50       | 30%       | 36.7             | 56%    |
| G         | x88372  | x1T02.00          | Me   | Previous history of heroin misuse                                                | -           | Def    | 188                | 122              | 66        | 35%       | 31.6 (26.2-37.6) | 63%    |
| G         | x95953  | xE255300          | Me   | Nondependent opioid abuse in remission                                           | -           | Def    | -                  | -                | -         | -         | -                | -      |
| G         | x689    | xE240.11          | Me   | Heroin dependence                                                                | -           | Def    | 14896              | 11319            | 3577      | 24%       | 26.7 (22.0-32.5) | 71%    |
| G         | x4564   | xEu11212          | Me   | [X]Heroin addiction                                                              | -           | Def    | 10501              | 7715             | 2786      | 27%       | 26.4 (22.0-32.1) | 71%    |
| G         | x6111   | x8B23.11          | Me   | Drug addictn therap-methadone                                                    | -           | Def    | 11133              | 5952             | 5181      | 47%       | 31.5 (26.0-37.9) | 67%    |
| G         | x10538  | xEu11211          | Me   | [X]Drug addiction - opioids                                                      | -           | Def    | 3287               | 2295             | 992       | 30%       | 30.2 (24.7-37.3) | 69%    |
| G         | x16243  | xE240.00          | Me   | Opioid type drug dependence                                                      | -           | Def    | 7602               | 5038             | 2564      | 34%       | 29.8 (24.0-37.0) | 69%    |
| G         | x16374  | xE240.12          | Me   | Methadone dependence                                                             | -           | Def    | 2215               | 1645             | 570       | 26%       | 32.1 (26.5-38.2) | 67%    |
| G         | x20962  | xE240200          | Me   | Episodic opioid dependence                                                       | -           | Def    | 67                 | 30-40            | 20-30     | 40%       | 28.8 (22.5-33.4) | 66%    |
| G         | x30711  | xZV11500          | Me   | [V]Personal history of drug abuse by injection                                   | -           | Prob   | -                  | -                | -         | -         | -                | -      |
| G         | x24441  | xE240z00          | Me   | Opioid drug dependence NOS                                                       | -           | Def    | 2442               | 1069             | 1373      | 56%       | 33.0 (26.2-40.8) | 66%    |
| G         | x25527  | xEu11311          | Me   | [X]Cold turkey, opiate withdrawal                                                | -           | Def    | 695                | 395              | 300       | 43%       | 34.4 (27.2-47.2) | 58%    |
| G         | x26061  | xE248.00          | Me   | Combined opioid with other drug dependence                                       | -           | Def    | 165                | 120-130          | 40-50     | 20%       | 30.2 (24.7-35.6) | 72%    |
| G         | x26831  | xE255.00          | Me   | Nondependent opioid abuse                                                        | -           | Def    | 204                | 136              | 68        | 33%       | 27.2 (23.0-32.5) | 67%    |
| G         | x27652  | xEu11700          | Me   | [X]Men & beh dis due opioids: resid & late-onset psychot dis                     | -           | Def    | <50                | <50              | <50       | 40%       | 34.2             | 60%    |
| G         | x28976  | x8B2N.00          | Me   | Drug addiction detoxification therapy - methadone                                | -           | Def    | 2040               | 1254             | 786       | 39%       | 32.1 (26.8-38.8) | 67%    |
| G         | x30565  | x146C.00          | Me   | Failed heroin detoxification                                                     | -           | Def    | 576                | 419              | 157       | 27%       | 29.6 (24.7-34.8) | 72%    |
| G         | x30694  | x8B2P.00          | Me   | Drug addiction maintenance therapy - methadone                                   | -           | Def    | 2492               | 1094             | 1398      | 56%       | 35.0 (29.4-41.8) | 65%    |
| G         | x32804  | xE240.14          | Me   | Opium dependence                                                                 | -           | Def    | 168                | 120-130          | 40-40     | 20%       | 32.4 (26.4-41.3) | 79%    |
| G         | x34249  | xEu11200          | Me   | [X]Mental and behav dis due to use opioids: dependence syndr                     | -           | Def    | 443                | 249              | 194       | 44%       | 28.6 (23.0-35.5) | 72%    |
| G         | x36241  | xEu11300          | Me   | [X]Mental and behav dis due to use opioids: withdrawal state                     | -           | Def    | 58                 | 20-30            | 30-30     | 50%       | 34.8 (26.6-41.3) | 50%    |

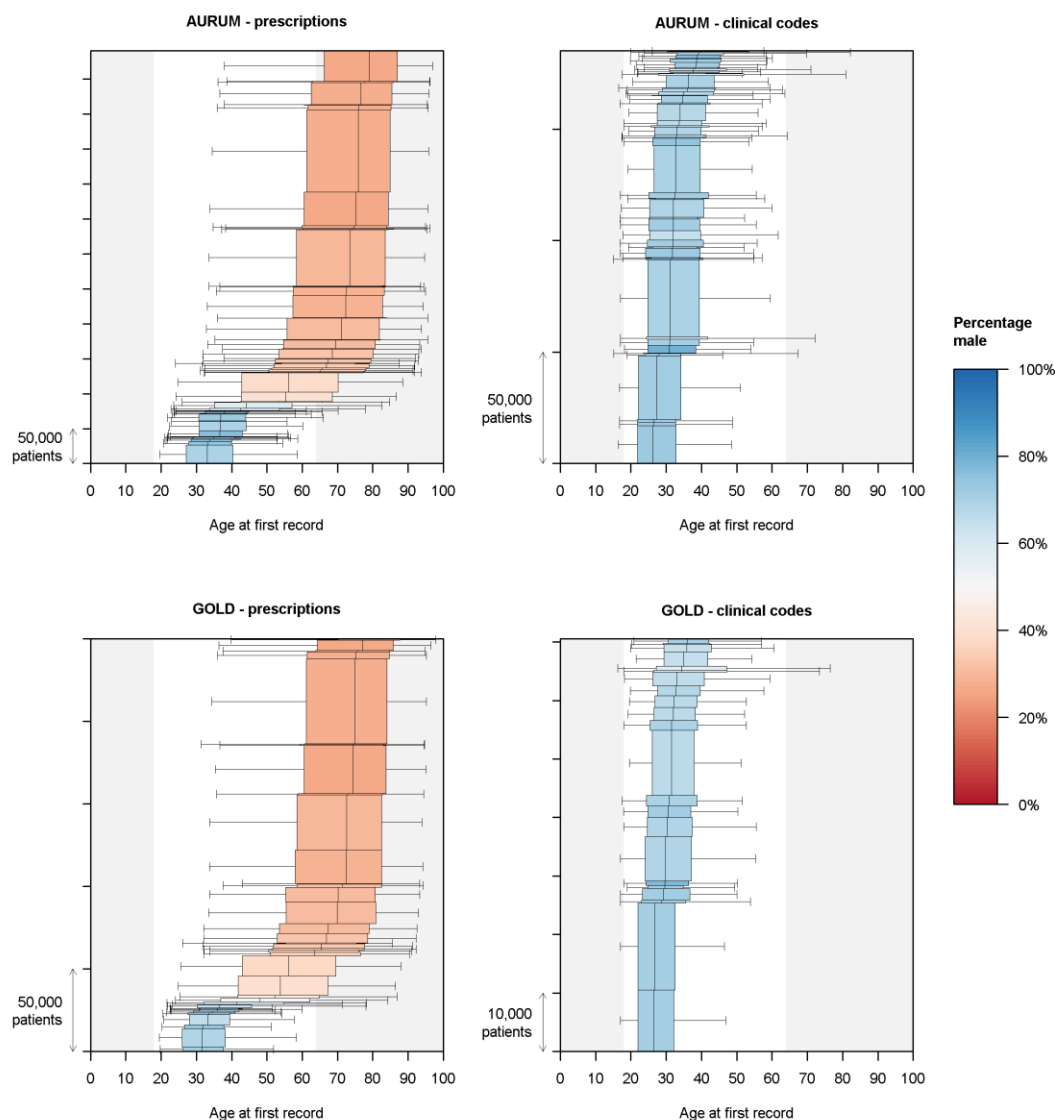
| Data-base | Medcode | ReadCode / SNOMED | Type | Term                                                          | Meth / bupe | Status | Number in database | Number in cohort | Dropped | % dropped | Median age (IQR) | % Male |
|-----------|---------|-------------------|------|---------------------------------------------------------------|-------------|--------|--------------------|------------------|---------|-----------|------------------|--------|
| G         | x37568  | xEu11100          | Me   | [X]Mental and behav dis due to use of opioids: harmful use    | -           | Def    | <50                | <50              | <50     | 40%       | 31.7             | 74%    |
| G         | x38034  | xE240000          | Me   | Unspecified opioid dependence                                 | -           | Def    | 121                | 64               | 57      | 47%       | 29.8 (25.6-36.5) | 66%    |
| G         | x43075  | xE240100          | Me   | Continuous opioid dependence                                  | -           | Def    | 195                | 92               | 103     | 53%       | 28.0 (22.3-33.7) | 70%    |
| G         | x47083  | x8B2M.00          | Me   | Buprenorphine maintenance therapy                             | -           | Def    | 192                | 109              | 83      | 43%       | 36.4 (30.8-42.8) | 70%    |
| G         | x47335  | xEu11.00          | Me   | [X]Mental and behavioural disorders due to use of opioids     | -           | Def    | 199                | 160-170          | 30-40   | 20%       | 35.6 (28.7-44.0) | 72%    |
| G         | x50964  | xEu11500          | Me   | [X]Mental & behav dis due to use opioids: psychotic disorder  | -           | Def    | <50                | <50              | <50     | 40%       | 33.4             | 76%    |
| G         | x51052  | x8B2R.00          | Me   | Drug addiction detoxification therapy - buprenorphine         | -           | Def    | 126                | 74               | 52      | 41%       | 35.0 (29.6-42.6) | 70%    |
| G         | x52739  | xEu11y00          | Me   | [X]Men & behav dis due to use opioids: oth men & behav dis    | -           | Def    | <50                | <50              | <50     | 50%       | 37.5             | 50%    |
| G         | x56194  | xE248000          | Me   | Combined opioid with other drug dependence, unspecified       | -           | Def    | <50                | <50              | <50     | 50%       | 29.3             | 69%    |
| G         | x58731  | xE255100          | Me   | Nondependent opioid abuse, continuous                         | -           | Def    | <50                | <50              | <50     | 30%       | 42.3             | 67%    |
| G         | x60355  | xZ1Q6200          | Me   | Methadone maintenance                                         | -           | Def    | 173                | 95               | 78      | 45%       | 36.5 (30.9-43.7) | 70%    |
| G         | x64265  | xE248100          | Me   | Combined opioid with other drug dependence, continuous        | -           | Def    | <50                | <50              | <50     | 40%       | 31.1             | 94%    |
| G         | x64277  | xE248200          | Me   | Combined opioid with other drug dependence, episodic          | -           | Def    | <50                | <50              | <50     | 40%       | 31.4             | 86%    |
| G         | x64382  | xE255200          | Me   | Nondependent opioid abuse, episodic                           | -           | Def    | <50                | <50              | <50     | 30%       | 28.0             | 82%    |
| G         | x69508  | xE255z00          | Me   | Nondependent opioid abuse NOS                                 | -           | Def    | <50                | <50              | <50     | 80%       | 24.8             | 60%    |
| G         | x73737  | xE248z00          | Me   | Combined opioid with other drug dependence NOS                | -           | Def    | <50                | <50              | <50     | 80%       | 29.4             | 67%    |
| G         | x82479  | x1T0..00          | Me   | H/O heroin misuse                                             | -           | Def    | 1690               | 1113             | 577     | 34%       | 31.6 (25.4-38.9) | 70%    |
| G         | x85097  | x1T1..00          | Me   | H/O methadone misuse                                          | -           | Def    | 273                | 210              | 63      | 23%       | 35.8 (29.0-42.3) | 65%    |
| G         | x85953  | x1TF..00          | Me   | Does not use heroin on top of substitution therapy            | -           | Def    | <50                | <50              | <50     | 10%       | 36.1             | 81%    |
| G         | x86002  | x1T00.00          | Me   | H/O daily heroin misuse                                       | -           | Def    | 248                | 172              | 76      | 31%       | 31.4 (25.5-39.4) | 72%    |
| G         | x86036  | x1TD..00          | Me   | H/O opiate misuse                                             | -           | Def    | 1176               | 793              | 383     | 33%       | 35.8 (29.3-42.8) | 65%    |
| G         | x86041  | x1TE..00          | Me   | Uses heroin on top of substitution therapy                    | -           | Def    | 157                | 100-110          | 40-50   | 30%       | 35.6 (29.8-40.8) | 69%    |
| G         | x88760  | x1TD0.00          | Me   | H/O daily opiate misuse                                       | -           | Def    | 97                 | 60-70            | 20-30   | 30%       | 35.9 (29.8-43.5) | 56%    |
| G         | x89145  | x1T03.00          | Me   | H/O infrequent heroin misuse                                  | -           | Def    | <50                | <50              | <50     | 20%       | 37.1             | 62%    |
| G         | x90198  | x8BE0.00          | Me   | Reinduction to methadone maintenance therapy                  | -           | Def    | 52                 | 30-40            | 10-20   | 30%       | 34.2 (27.1-39.6) | 62%    |
| G         | x91029  | x1TD2.00          | Me   | H/O infrequent opiate misuse                                  | -           | Def    | <50                | <50              | <50     | 30%       | 39.5             | 57%    |
| G         | x91256  | x1TD3.00          | Me   | Previous history of opiate misuse                             | -           | Def    | 105                | 70-80            | 30-30   | 30%       | 35.7 (29.7-43.0) | 68%    |
| G         | x91801  | xEu11z00          | Me   | [X]Ment & behav dis due use opioids: unsp ment & behav dis    | -           | Def    | <50                | <50              | <50     | 60%       | 33.6             | 88%    |
| G         | x92404  | x1T10.00          | Me   | H/O daily methadone misuse                                    | -           | Def    | <50                | <50              | <50     | 20%       | 33.4             | 68%    |
| G         | x93109  | x1T11.00          | Me   | H/O weekly methadone misuse                                   | -           | Def    | <50                | <50              | <50     | 0%        | 31.6             | 80%    |
| G         | x93554  | x1T01.00          | Me   | H/O weekly heroin misuse                                      | -           | Def    | <50                | <50              | <50     | 20%       | 35.5             | 82%    |
| G         | x93980  | x8B2S.00          | Me   | Opioid agonist substitution therapy                           | -           | Def    | <50                | <50              | <50     | 30%       | 38.7             | 65%    |
| G         | x95460  | xZ1Q6214          | Me   | Heroin maintenance                                            | -           | Def    | <50                | <50              | <50     | 0%        | 26.6             | 100%   |
| G         | x96081  | x8BE1.00          | Me   | Reinduction to buprenorphine maintenance therapy              | -           | Def    | <50                | <50              | <50     | 0%        | 34.9             | 100%   |
| G         | x96925  | x1V65.00          | Me   | Heroin misuse                                                 | -           | Def    | 1773               | 1017             | 756     | 43%       | 30.9 (24.4-38.8) | 70%    |
| G         | x100632 | xZ1Q6212          | Me   | Methadone therapy                                             | -           | Def    | <50                | <50              | <50     | 20%       | 37.3             | 73%    |
| G         | x101377 | x1TD1.00          | Me   | H/O weekly opiate misuse                                      | -           | Def    | <50                | <50              | <50     | 30%       | 49.0             | 67%    |
| G         | x103991 | xEu11600          | Me   | [X]Mental and behav dis due to use opioids: amnesic syndrome  | -           | Def    | <50                | <50              | <50     | 0%        | 48.2             | 100%   |
| G         | x106342 | x1T12.00          | Me   | H/O infrequent methadone misuse                               | -           | Def    | <50                | <50              | <50     | 50%       | 33.3             | 100%   |
| G         | x108251 | x66c4.00          | Me   | Opioid substitution therapy monitoring                        | -           | Def    | <50                | <50              | <50     | 60%       | 43.5             | 54%    |
| G         | x43487  | x8B2Q.00          | Me   | Drug addiction maintenance therapy - buprenorphine            | -           | Def    | 218                | 170-180          | 40-50   | 20%       | 35.0 (29.9-40.7) | 75%    |
| G         | x97488  | xEu11400          | Me   | [X]Men & behav dis due opioid: withdrawal state with delirium | -           | Def    | <50                | <50              | <50     | 30%       | 26.1             | 67%    |
| G         | x42456  | xEu11000          | Me   | [X]Mental & behav dis due to use opioids: acute intoxication  | -           | Def    | <50                | <50              | <50     | 60%       | 29.4             | 59%    |
| G         | x28710  | xU205.11          | Me   | [X]Overdose - heroin                                          | -           | Prob   | 749                | 270              | 479     | 64%       | 29.6 (24.2-36.4) | 78%    |
| G         | x68327  | x13r3.00          | Me   | Abstinent from drug misuse on maintenance replacement         | -           | Prob   | 73                 | 30-30            | 40-50   | 60%       | 46.4 (37.4-50.5) | 73%    |
| G         | x37527  | xTJ50.00          | Me   | Adverse reaction to heroin, diamorphine                       | -           | Prob   | <50                | <50              | <50     | 70%       | 34.7             | 57%    |
| G         | x109966 | x8B23100          | Me   | Drug addiction maintenance therapy - lofexidine               | -           | Def    | <50                | <50              | <50     | 0%        | 45.4             | 100%   |
| G         | x109730 | x8B23000          | Me   | Drug addiction maintenance therapy - naltrexone               | -           | Def    | <50                | <50              | <50     | 30%       | 38.1             | 70%    |
| G         | x20458  | xSL50100          | Me   | Heroin poisoning                                              | -           | Prob   | -                  | -                | -       | -         | -                | -      |
| G         | x22079  | x13c0.00          | Me   | Injecting drug user                                           | -           | Prob   | 1949               | 580              | 1369    | 70%       | 30.5 (24.7-36.9) | 72%    |
| G         | x51334  | xU1A5.11          | Me   | [X]Accidental poisoning with heroin                           | -           | Prob   | -                  | -                | -       | -         | -                | -      |

| Data-base | Medcode | ReadCode / SNOMED | Type | Term                                               | Meth / bupe | Status | Number in database | Number in cohort | Dropped | % dropped | Median age (IQR) | % Male |
|-----------|---------|-------------------|------|----------------------------------------------------|-------------|--------|--------------------|------------------|---------|-----------|------------------|--------|
| G         | x54560  | xT800.00          | Me   | Accidental poisoning by heroin                     | -           | Prob   | -                  | -                | -       | -         | -                | -      |
| G         | x103842 | x38G1.00          | Me   | Clinical opiate withdrawal scale                   | -           | Prob   | -                  | -                | -       | -         | -                | -      |
| G         | x30251  | x13c1.00          | Me   | Intravenous drug user                              | -           | Prob   | 1971               | 592              | 1379    | 70%       | 29.3 (23.3-36.7) | 72%    |
| G         | x22059  | xE240.13          | Me   | Morphine dependence                                | -           | Def    | 250                | 198              | 52      | 21%       | 34.3 (26.4-47.3) | 59%    |
| G         | x40536  | xE255000          | Me   | Nondependent opioid abuse, unspecified             | -           | Def    | <50                | <50              | <50     | 80%       | 28.2             | 50%    |
| G         | x30598  | x8BA0.00          | Me   | Opiate dependence detoxification                   | -           | Def    | 1642               | 1052             | 590     | 36%       | 32.8 (27.6-39.6) | 68%    |
| G         | x32709  | x13cJ.00          | Me   | Previously injecting drug user                     | -           | Prob   | 761                | 223              | 538     | 71%       | 36.1 (30.6-41.9) | 71%    |
| G         | x58560  | xZRk7.00          | Me   | Severity of opiate dependence questionnaire        | -           | Prob   | 136                | 0-10             | 120-130 | 90%       | 32.9 (28.1-38.4) | 76%    |
| G         | x97811  | x1V38.00          | Me   | Sharing of drug injecting equipment                | -           | Prob   | -                  | -                | -       | -         | -                | -      |
| G         | x60243  | xZRk7.11          | Me   | SODQ - Severity of opiate dependence questionnaire | -           | Prob   | <50                | <50              | <50     | 30%       | 22.8             | 67%    |

### 3 Age- and sex-distribution of patients by product and clinical codes

We identified methadone and buprenorphine products (prescriptions) that are likely to be specific to OAT by examining the age- and sex-distribution of patients when they first received those prescriptions. The charts below show that prescriptions fell into two groups: those mainly prescribed to younger men, and those mainly prescribed to older women. We excluded the products mainly prescribed to older women as they are likely to be used for other indications. A prescribing professional reviewed the remaining products to check whether they are indicated for OAT. The charts showing the age- and sex-distribution of patients for each clinical code are also provided for completeness.

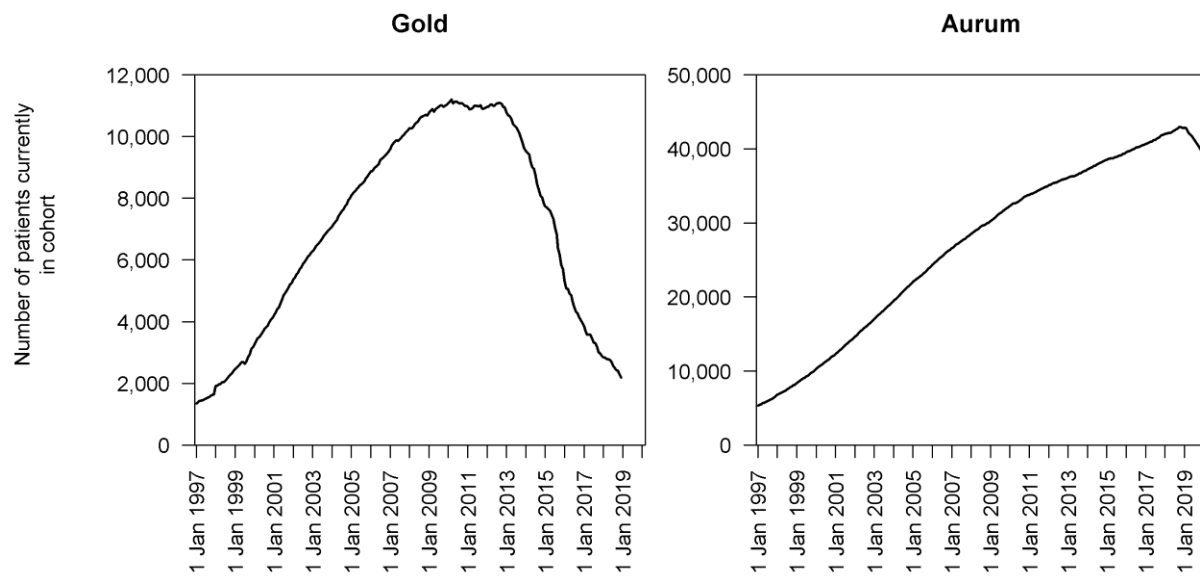
**Figure: Age- and sex-distribution of patients at first record of product codes and clinical codes. Boxes show the 0.25, 0.5, and 0.75 quantiles of age. Whiskers show the minimum and maximum age.**



## 4 Detailed table of mortality rates and ratios

| Data-base | Sex    | Age group       | Sample size    | Person-years   | Observed deaths | Epected deaths | CMR (95% CI)            | SMR (95% CI)         |
|-----------|--------|-----------------|----------------|----------------|-----------------|----------------|-------------------------|----------------------|
| Gold      | Female | 18-29           | 3,565          | 10,154         | 31              | 3.1            | 3.1 (2.1-4.3)           | 10.0 (6.8-14.2)      |
|           |        | 30-39           | 3,276          | 16,362         | 88              | 9.4            | 5.4 (4.3-6.6)           | 9.4 (7.5-11.5)       |
|           |        | 40-49           | 1,628          | 11,444         | 123             | 15.3           | 10.7 (8.9-12.8)         | 8.0 (6.7-9.6)        |
|           |        | 50-64           | 881            | 6,868          | 160             | 27.2           | 23.3 (19.8-27.2)        | 5.9 (5.0-6.9)        |
|           |        | 65+             | -              | 1,347          | 36              | 17.9           | 26.7 (18.7-37.0)        | 2.0 (1.4-2.8)        |
|           |        | <b>All ages</b> | <b>9,350</b>   | <b>46,174</b>  | <b>438</b>      | <b>72.9</b>    | <b>9.5 (8.6-10.4)</b>   | <b>6.0 (5.5-6.6)</b> |
|           | Male   | 18-29           | 7,020          | 20,666         | 120             | 16.0           | 5.8 (4.8-6.9)           | 7.5 (6.2-9.0)        |
|           |        | 30-39           | 8,451          | 42,895         | 276             | 46.6           | 6.4 (5.7-7.2)           | 5.9 (5.2-6.7)        |
|           |        | 40-49           | 4,238          | 28,725         | 333             | 60.3           | 11.6 (10.4-12.9)        | 5.5 (4.9-6.1)        |
|           |        | 50-64           | 1,432          | 12,507         | 342             | 70.0           | 27.3 (24.5-30.4)        | 4.9 (4.4-5.4)        |
|           |        | 65+             | -              | 1,342          | 55              | 24.9           | 41.0 (30.9-53.3)        | 2.2 (1.7-2.9)        |
|           |        | <b>All ages</b> | <b>21,141</b>  | <b>106,136</b> | <b>1,126</b>    | <b>217.9</b>   | <b>10.6 (10.0-11.2)</b> | <b>5.2 (4.9-5.5)</b> |
|           | Both   | 18-29           | 10,585         | 30,820         | 151             | 19.1           | 4.9 (4.1-5.7)           | 7.9 (6.7-9.3)        |
|           |        | 30-39           | 11,727         | 59,256         | 364             | 56.0           | 6.1 (5.5-6.8)           | 6.5 (5.8-7.2)        |
|           |        | 40-49           | 5,866          | 40,169         | 456             | 75.6           | 11.4 (10.3-12.4)        | 6.0 (5.5-6.6)        |
|           |        | 50-64           | 2,313          | 19,375         | 502             | 97.2           | 25.9 (23.7-28.3)        | 5.2 (4.7-5.6)        |
|           |        | 65+             | -              | 2,689          | 91              | 42.9           | 33.8 (27.2-41.5)        | 2.1 (1.7-2.6)        |
|           |        | <b>All ages</b> | <b>30,491</b>  | <b>152,309</b> | <b>1,564</b>    | <b>290.8</b>   | <b>10.3 (9.8-10.8)</b>  | <b>5.4 (5.1-5.7)</b> |
| Aurum     | Female | 18-29           | 10,645         | 30,113         | 99              | 9.1            | 3.3 (2.7-4.0)           | 10.9 (8.8-13.2)      |
|           |        | 30-39           | 12,258         | 64,330         | 364             | 37.3           | 5.7 (5.1-6.3)           | 9.8 (8.8-10.8)       |
|           |        | 40-49           | 6,765          | 53,709         | 612             | 71.4           | 11.4 (10.5-12.3)        | 8.6 (7.9-9.3)        |
|           |        | 50-64           | 3,537          | 34,235         | 795             | 127.8          | 23.2 (21.6-24.9)        | 6.2 (5.8-6.7)        |
|           |        | 65+             | -              | 5,596          | 200             | 70.5           | 35.7 (31.0-41.0)        | 2.8 (2.5-3.3)        |
|           |        | <b>All ages</b> | <b>33,205</b>  | <b>187,982</b> | <b>2,070</b>    | <b>316.1</b>   | <b>11.0 (10.5-11.5)</b> | <b>6.5 (6.3-6.8)</b> |
|           | Male   | 18-29           | 19,799         | 58,602         | 334             | 44.5           | 5.7 (5.1-6.3)           | 7.5 (6.7-8.4)        |
|           |        | 30-39           | 29,993         | 159,555        | 1,106           | 172.9          | 6.9 (6.5-7.4)           | 6.4 (6.0-6.8)        |
|           |        | 40-49           | 18,190         | 140,079        | 1,718           | 296.4          | 12.3 (11.7-12.9)        | 5.8 (5.5-6.1)        |
|           |        | 50-64           | 7,083          | 71,588         | 1,796           | 384.3          | 25.1 (23.9-26.3)        | 4.7 (4.5-4.9)        |
|           |        | 65+             | -              | 7,269          | 320             | 133.3          | 44.0 (39.3-49.1)        | 2.4 (2.1-2.7)        |
|           |        | <b>All ages</b> | <b>75,065</b>  | <b>437,093</b> | <b>5,274</b>    | <b>1031.4</b>  | <b>12.1 (11.7-12.4)</b> | <b>5.1 (5.0-5.3)</b> |
|           | Both   | 18-29           | 30,444         | 88,714         | 433             | 53.7           | 4.9 (4.4-5.4)           | 8.1 (7.3-8.9)        |
|           |        | 30-39           | 42,251         | 223,884        | 1,470           | 210.1          | 6.6 (6.2-6.9)           | 7.0 (6.6-7.4)        |
|           |        | 40-49           | 24,955         | 193,788        | 2,330           | 367.8          | 12.0 (11.5-12.5)        | 6.3 (6.1-6.6)        |
|           |        | 50-64           | 10,620         | 105,823        | 2,591           | 512.1          | 24.5 (23.6-25.4)        | 5.1 (4.9-5.3)        |
|           |        | 65+             | -              | 12,866         | 520             | 203.8          | 40.4 (37.0-44.0)        | 2.6 (2.3-2.8)        |
|           |        | <b>All ages</b> | <b>108,270</b> | <b>625,075</b> | <b>7,344</b>    | <b>1347.6</b>  | <b>11.7 (11.5-12.0)</b> | <b>5.4 (5.3-5.6)</b> |

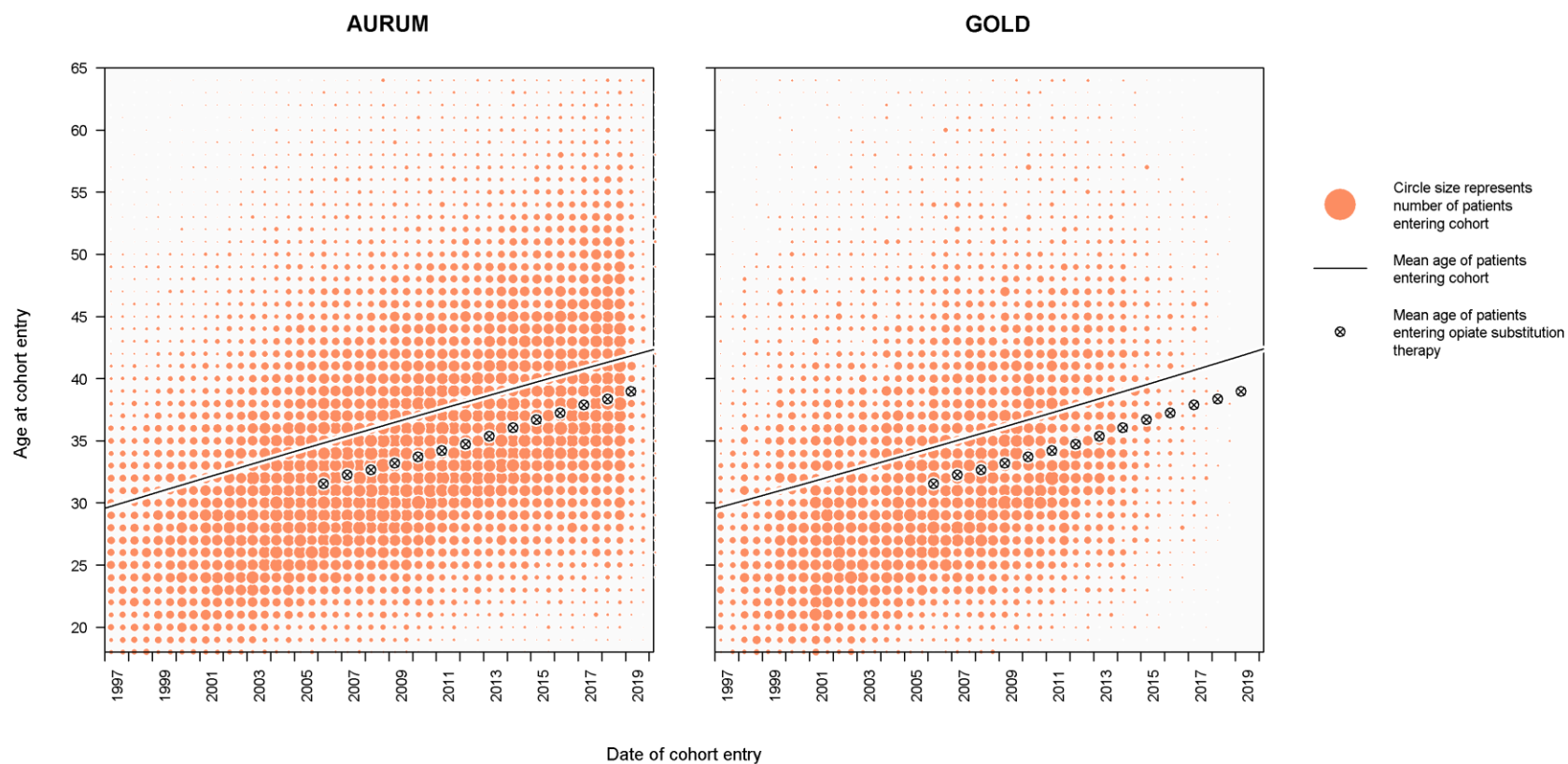
## 5 Number of patients currently in the cohort



## 6 Age of patients at cohort entry

### 6.1 Age at cohort entry over time

Age of patients at cohort entry, compared to patients starting treatment for opiate dependence in England (NDTMS), by half-year



## 6.2 Age group at cohort entry

Age group of patients at cohort entry, compared to patients starting treatment for opiate dependence in England

