Appendix A: Code lists

In order to identify primary diagnoses groups in Table 2 and Figures in Appendix C, we used the following ICD-10 codes:

**Table A1: ICD-10 codes used to define condition groups**

| Primary diagnoses group                                      | ICD-10 codes                                                                 |
|--------------------------------------------------------------|-------------------------------------------------------------------------------|
| **Long-term conditions**                                     |                                                                               |
| Diabetes                                                     | E10-E14, G59.0, G63.2, I79.2, M14.2, N08.3, O24.0, O24.1, O24.2, O24.3, Y42.3 |
| Asthma and chronic lower respiratory disease                | J41-J47                                                                      |
| Epilepsy                                                     | F80.3, G40.0, G40.1, G40.2, G40.3, G40.4, G40.6, G40.7, G41, G40.8, G40.9, R56.8, Y46.0, Y46.1, Y46.2, Y46.3, Y46.4, Y46.5, Y46.6 |
| Non-infective enteritis and colitis / inflammatory bowel disease | K50, K51, K52                                                               |
| **Mental health conditions**                                 |                                                                               |
| Substance use                                                | F10-F19                                                                      |
| Schizophrenia, schizotypical and delusional disorders        | F20-F29                                                                      |
| Personality disorders                                        | F60, F61, F69                                                                |
| Mood disorders                                               | F30-F39                                                                      |
| **Infections**                                               |                                                                               |
| Enteric / gastrointestinal infection                         | A00-A09, I88.0, K23.0, K23.1, K25-K28, K29.3, K29.4, K29.5, K35-K37, K52.8, K52.9, K61, K63.0, K63.2, K65.0, K67.8, K90.8, K93.0, R11 |
| Respiratory infection                                        | A15-A19, A48.1, A48.2, B59, J00-J06, J10-J22, J32, J36, J37, J39.0, J39.1, J40-J42, J43.0, J44.0, J47, J56, J85, J86, J98.8, N74.0, N74.1 |
| Genitourinary infection                                      | N30.0, N34.1, N35.1, N37, N39.0, N41.0, N41.1, N41.2, N41.3, N43.1, N45, N48.1, N48.2, N49, N51, N70-N74, N75.1, N76.4, N87 |
| **Symptoms and signs**                                       |                                                                               |
| Abdominal pain                                               | R10-R19, K59                                                                |
| General symptoms and signs                                   | R50-R69                                                                      |
| Respiratory and circulatory symptoms                         | R00-R09                                                                      |
| Other symptoms                                               | R20-49, R70-R99                                                             |
| **Other conditions**                                         |                                                                               |
| Non-inflammatory disease of the female genitourinary system  | N80-N98                                                                      |
| Other joint/soft tissue disorders                             | M20-M25, M70-M79                                                            |
| Diseases of male genital organs                               | N40-N51                                                                      |
Codes for long-term conditions (apart from sickle cell disease and inflammatory bowel disease) were taken from Hardelid et al.\textsuperscript{1}, codes for infections were taken from Baker et al.\textsuperscript{2}. Other groups are based on ICD-10 subchapters.

1. Hardelid P, Dattani N, Davey J, et al. Overview of child deaths in the four UK countries. HQIP bit.ly/hardelidreport
2. Barker MG, Barnard LT, Kvalsvig A, et al. Increasing incidence of serious infectious diseases and inequalities in New Zealand: a national epidemiological study. \textit{The Lancet} 2012;\textbf{379}:1112-9.