Supplementary Table S1. Distributions of covariates by ethnic group. Live singleton births at 22+ weeks, England and Wales 2006-2012.

| Ethnic group | % of births |
|--------------|-------------|
|               | White British | White Non-British | Pakistani | Indian | Bangladesh | Black, African | Mixed Black-African | White | Black | Caribbean | Mixed Black-Carib-White | Other / Unspecific | Unstated |
| Parent mar/reg | Within Marriage | 46.2 | 64.8 | 95.7 | 96.2 | 94.6 | 61.3 | 45.7 | 26.5 | 20.9 | 68.3 | 57.1 |
|               | Joint, same addr. | 36.7 | 26.8 | 1.9 | 2.1 | 2.7 | 14.5 | 26.3 | 21.7 | 33.6 | 16.5 | 28.5 |
|               | Joint, diff. addr. | 10.9 | 4.0 | 1.1 | 0.9 | 1.6 | 12.4 | 15.8 | 32.0 | 28.3 | 8.5 | 8.3 |
|               | Sole registration | 6.2 | 4.4 | 1.3 | 0.9 | 1.2 | 11.8 | 12.3 | 19.8 | 17.2 | 6.7 | 6.1 |
| Mother COB | Non-UK | 3.9 | 80.1 | 62.9 | 66.0 | 78.2 | 92.7 | 45.2 | 36.7 | 9.4 | 67.6 | 26.4 |
|               | UK | 96.1 | 19.9 | 37.1 | 34.0 | 21.8 | 7.3 | 54.8 | 63.3 | 90.6 | 32.4 | 73.6 |
| Deprivation, IMD | 1 = Advantaged | 18.0 | 14.0 | 3.4 | 11.4 | 2.3 | 3.0 | 9.3 | 2.4 | 8.2 | 10.6 | 16.2 |
|               | 2 | 18.9 | 16.2 | 5.4 | 13.6 | 4.3 | 5.4 | 12.4 | 4.8 | 11.1 | 12.7 | 18.6 |
|               | 3 | 19.5 | 20.0 | 10.8 | 20.8 | 8.8 | 11.9 | 17.3 | 13.0 | 15.8 | 17.4 | 20.1 |
|               | 4 | 20.2 | 26.1 | 25.1 | 29.9 | 24.8 | 29.6 | 26.1 | 29.9 | 25.4 | 25.9 | 23.1 |
|               | 5 = Disadvantaged | 23.4 | 23.7 | 55.3 | 24.3 | 59.8 | 50.1 | 34.9 | 49.8 | 39.4 | 33.4 | 22.0 |
| Gestation, weeks | 37+ | 94.5 | 95.4 | 94.0 | 94.0 | 93.7 | 93.8 | 94.5 | 91.8 | 93.6 | 94.5 | 94.4 |
|               | 32-36 | 4.7 | 4.0 | 5.0 | 5.1 | 5.5 | 4.6 | 4.5 | 6.2 | 5.3 | 4.6 | 4.7 |
|               | 22-31 | 0.8 | 0.6 | 1.0 | 0.9 | 0.8 | 1.6 | 1.0 | 2.0 | 1.1 | 0.9 | 0.9 |
| Mother age, years | 30+ | 47.1 | 52.7 | 37.5 | 50.5 | 35.3 | 54.3 | 45.9 | 43.6 | 34.9 | 51.1 | 49.7 |
|               | 25-29 | 25.8 | 29.7 | 37.6 | 36.6 | 37.0 | 29.3 | 27.7 | 25.6 | 25.3 | 27.8 | 26.5 |
|               | 20-24 | 20.0 | 15.0 | 22.9 | 12.2 | 25.5 | 13.9 | 20.4 | 22.3 | 27.6 | 16.9 | 18.0 |
|               | <20 | 7.1 | 2.6 | 2.0 | 0.7 | 2.2 | 2.6 | 6.0 | 8.5 | 12.3 | 4.2 | 5.8 |
| Sex | Girl | 48.7 | 48.5 | 49.0 | 48.7 | 49.3 | 49.4 | 48.8 | 49.2 | 48.8 | 48.6 | 48.6 |
|               | Boy | 51.3 | 51.5 | 51.0 | 51.3 | 50.7 | 50.6 | 51.2 | 50.8 | 51.2 | 51.4 | 51.4 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Number of births | 3,009,144 | 340,515 | 180,265 | 132,646 | 62,944 | 154,071 | 29,313 | 47,503 | 46,445 | 344,186 | 287,732 |

Parent mar/reg, parents’ marital/registration status; COB, country of birth; Gestation, gestational age at birth.

Data for Figure 1 in ‘Ethnic variation in unexplained deaths in infancy, including sudden infant death syndrome (SIDS), England and Wales 2006-2012: national birth cohort study using routine data’. 
Supplementary Table S2. Unexplained death in infancy by recorded cause. Deaths by age at death (completed months). Deaths per 1000 live singleton births by year of birth. Live singleton births at 22+ weeks, England and Wales 2006-2012.

| Recorded cause       | Sudden Infant Death Syndrome | Unascertained |
|----------------------|------------------------------|---------------|
|                      | Age at death (months)        | N deaths      | N deaths | %   | N deaths | %   |
|                      | 0                             | 274           | 162      | 59.1% | 112      | 40.9% |
|                      | 1                             | 430           | 290      | 67.4% | 140      | 32.6% |
|                      | 2                             | 302           | 222      | 73.5% | 80       | 26.5% |
|                      | 3                             | 175           | 129      | 73.7% | 46       | 26.3% |
|                      | 4                             | 126           | 88       | 69.8% | 38       | 30.2% |
|                      | 5                             | 83            | 60       | 72.3% | 23       | 27.7% |
|                      | 6                             | 51            | 33       | 64.7% | 18       | 35.3% |
|                      | 7                             | 37            | 26       | 70.3% | 11       | 29.7% |
|                      | 8                             | 36            | 24       | 66.7% | 12       | 33.3% |
|                      | 9                             | 19            | 11       | 57.9% | 8        | 42.1% |
|                      | 10 or 11                      | 26            | 17       | 65.4% | 9        | 34.6% |
| **Total**            | 1,559                        | 1,062         | 68.1%    | 497     | 31.9%    |

| Year of birth | N births | N deaths | Rate/1000 | N deaths | Rate/1000 |
|---------------|----------|----------|-----------|----------|-----------|
| 2006          | 631,676  | 159      | 0.2517    | 72       | 0.1140    |
| 2007          | 646,862  | 179      | 0.2767    | 70       | 0.1082    |
| 2008          | 663,899  | 158      | 0.2380    | 78       | 0.1175    |
| 2009          | 659,783  | 152      | 0.2304    | 78       | 0.1182    |
| 2010          | 671,249  | 129      | 0.1922    | 77       | 0.1147    |
| 2011          | 675,057  | 141      | 0.2089    | 68       | 0.1007    |
| 2012          | 686,238  | 144      | 0.2098    | 54       | 0.0787    |
| **Total**     | 4,634,764| 1,062    | 0.2291    | 497      | 0.1072    |

Data for Figure 2 in ‘Ethnic variation in unexplained deaths in infancy, including sudden infant death syndrome (SIDS), England and Wales 2006-2012: national birth cohort study using routine data’.