**Supplemental Table A**.Mortality and gestational age by cause of death. Nation-wide cohort born in Norway 1967-1997.

|  |  |  |  |
| --- | --- | --- | --- |
| Cause of deathb Length of gestation  Weeks (w)+days (d)  | Population cohortN=1,562,647 |  | Sibling cohortaN=29,536 |
| Deaths (N) | HRc | 95% CIa |  | Deaths (N) | HRa | 95% CIa |
|  |  |  |  |  |  |  |  |
| All causes of death | 14,919 |  |  |  | 11,570 |  |  |
|  23-27 w+6d  | 12 | 1.6 | 0.9, 2.8 | 8 | 2.0 | 0.6, 6.61.1, 2.00.9, 1.2 |
|  28-33 w+6d | 201 | 1.3 | 1.1, 1.4 | 150 | 1.5 |
|  34-36 w+6d  | 635 | 1.1 | 1.0, 1.2 | 488 | 1.0 |
|  37-41 w+6d | 11,866 | Ref |  |  | 9,187 | Ref |  |
|  >=42 w+0d  | 2,205 | 1.1 | 1.0, 1.1 | 1,737 | 1.1 | 1.0, 1.2 |
|  |  |  |  |  |  |  |  |
| External causes of deathb | 9,744 |  |  |  | 7,649 |  |  |
|  23-27 w+6d | 8 | 1.6 | 0.8, 3.10.9, 2.01.0, 1.2 | 6 | 2.4 | 0.5, 10.31.0, 2.10.8, 1.1 |
|  28-33 w+6d | 127 | 1.2 | 92 | 1.5 |
|  34-36 w+6d | 417 | 1.1 | 320 | 0.9  |
|  37-41 w+6d | 7,793 | Ref |  |  | 6,119 | Ref |  |
|  >=42 w+0d | 1,456 | 1.1 | 1.0, 1.1 | 1,154 | 1.0 | 0.9, 1.1 |
|  |  |  |  |  |  |  |  |
| Cancerb | 1,837 |  |  |  | 1,373 |  |  |
|  23-27 w+6d | 0 | - |  |  | 0 |  |  |
|  28-33 w+6d | 25 | 1.4 | 0.9, 2.00.7, 1.1 | 22 | 1.5 | 0.6, 3.50.4, 1.2 |
|  34-36 w+6d | 58 | 0.9 | 43 | 0.7 |
|  37-41 w+6d | 1,472 | Ref |  |  | 1,113 | Ref |  |
|  >=42 w+0d | 282 | 1.1 | 1.0, 1.3 | 217 | 1.1 | 0.9, 1.4 |
|  |  |  |  |  |  |  |  |
| Cardiovascular Diseases | 833 |  |  |  | 615 |  |  |
|  23-27 w+6d | 0 | - |  |  | 0 |  |  |
|  28-33 w+6d | 15 | 1.6 | 1.0, 2.80.9, 1.6 | 8 | 1.1 | 0.3, 3.90.7, 2.6 |
|  34-36 w+6d | 39 | 1.2 | 29 | 1.4 |
|  37-41 w+6d | 674 | Ref |  |  | 499 | Ref |  |
|  >=42 w+0d | 105 | 0.9 | 07, 1.1 | 79 | 1.0 | 0.7, 1.5 |

a Maternal siblings belonging to a sibling group in which at least one member died during follow-up

b Adjusted for sex, birth cohort (1967-1976, 1977-1986, and 1987-1997), maternal age (<24, 25-29, 30-35, ≥35 years), maternal parity (0,1, 2, ≥3), maternal education (0-2, 3-5, 6-8 years of education after high school), singleton born (y/n)

c Cause of death (ICD10 and ICD9 codes): External causes (V01-Y89 and E800-E999, included drug/alcohol-related deaths F10-19, 303-305); Cancer (C00-D48, 140-239); Cardiovascular Diseases (I00-I99, 390-459)

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**Supplemental Table B.** Mortality and gestational age by external cause of death Nation-wide cohort born in Norway 1967-1997.

|  |  |  |  |
| --- | --- | --- | --- |
| Cause of deathb Length of gestation Weeks(w) +days(d) | Population cohortN=1,562,647 |  | Sibling cohortaN=29,536 |
| Deaths (N) | HRc | 95% CIa |  | Deaths (N) | HRa | 95% CIa |
|  |  |  |  |  |  |  |  |
| Accidents and violencec | 3,975 |  |  |  | 3,154 |  |  |
|  23-27 w+6d | 5 | 2.3 | 1.0, 5.6 |  | 4 | 4.9 | 0.7, 33.6 |
|  28-33 w+6d | 32 | 1.2 | 0.8, 1.7 |  | 23 | 2.2 | 1.1, 4.2 |
|  34-36 w+6d | 180 | 1.0 | 0.9, 1.2 |  | 146 | 1.0 | 0.8, 1.4 |
|  37-41 w+6d | 3,204 | Ref |  |  | 2,538 | Ref |  |
|  >=42 w+0d | 554 | 1.0 | 0.9, 1.1 |  | 443 | 0.9 | 0.8, 1.1 |
|  |  |  |  |  |  |  |  |
| Suicidec | 3,274 |  |  |  | 2,591 |  |  |
|  23-27 w+6d | 2 | 1.2 | 0.3, 4.7 |  | 1 |  |  |
|  28-33 w+6d | 40 | 1.2 | 0.8, 1.6 |  | 27 | 1.9 | 0.9, 3.8 |
|  34-36 w+6d | 142 | 1.1 | 1.0, 1.4 |  | 112 | 1.1 | 0.8, 1.5 |
|  37-41 w+6d  | 2,587 | Ref |  |  | 2,054 | Ref |  |
|  >=42 w+0d | 503 | 1.2 | 1.0, 1.3 |  | 397 | 1.0 | 0.9, 1.2 |
|  |  |  |  |  |  |  |  |
| Substance abuse/overdosec | 2,227 |  |  |  | 1,693 |  |  |
|  23-27 w+6d | 1 | 0.9 | 0.1, 6.4 |  | 1 |  |  |
|  28-33 w+6d | 30 | 1.2 | 0.9, 1.8 |  | 23 | 1.1 | 0.6, 2.2 |
|  34-36 w+6d | 104 | 1.2 | 1.0, 1.5 |  | 69 | 0.6 | 0.4, 1.0 |
|  37-41 w+6d | 1,745 | Ref |  |  | 1,322 | Ref |  |
|  >=42 w+0d | 347 | 1.1 | 1.0, 1.3 |  | 278 | 1.2 | 0.9, 1.4 |

a Maternal siblings belonging to a sibling group in which at least one member died during follow-up

bAdjusted for sex, birth cohort (1967-1976, 1977-1986, and 1987-1997), maternal age (<24, 25-29, 30-35, ≥35 years), maternal parity (0,1, 2, ≥3), maternal education (0-2, 3-5, 6-8 years of education after high school), singleton born (y/n)

c Causes of death (ICD10 and ICD9 codes): Accidents and violence (V01-X39, X50-59, Y85-86, E800-E929), Suicide (X60-X84, Y87.0, E950-E959), Substance abuse/overdoses (F10-F19 X40-49, 303-305)

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