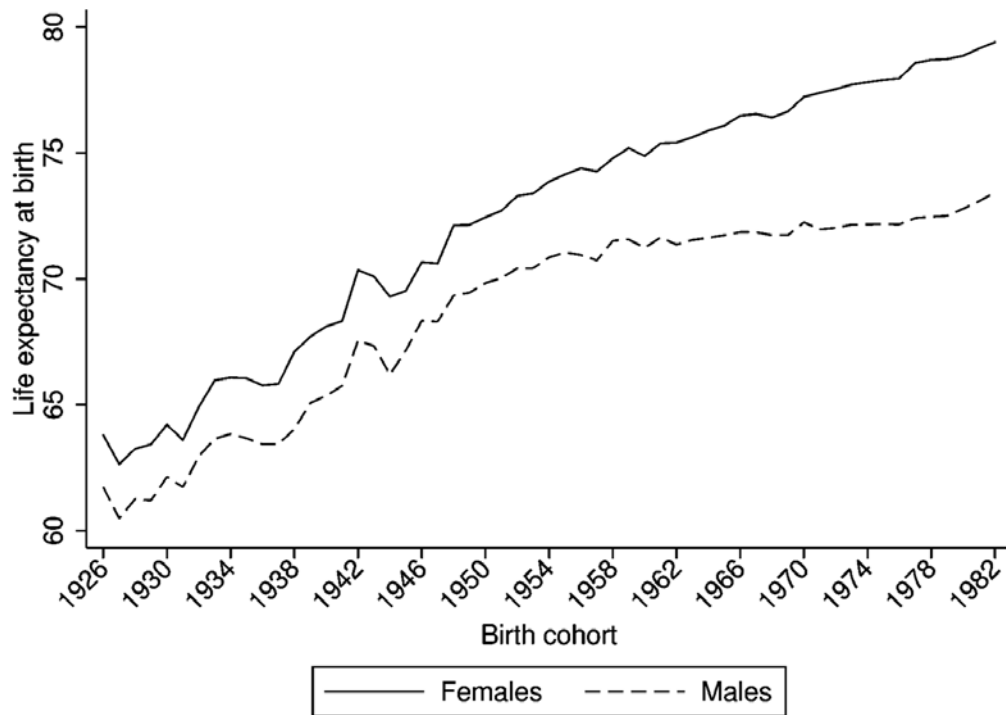


Appendix

Figure A

Life Expectancy at Birth. Males and Females.

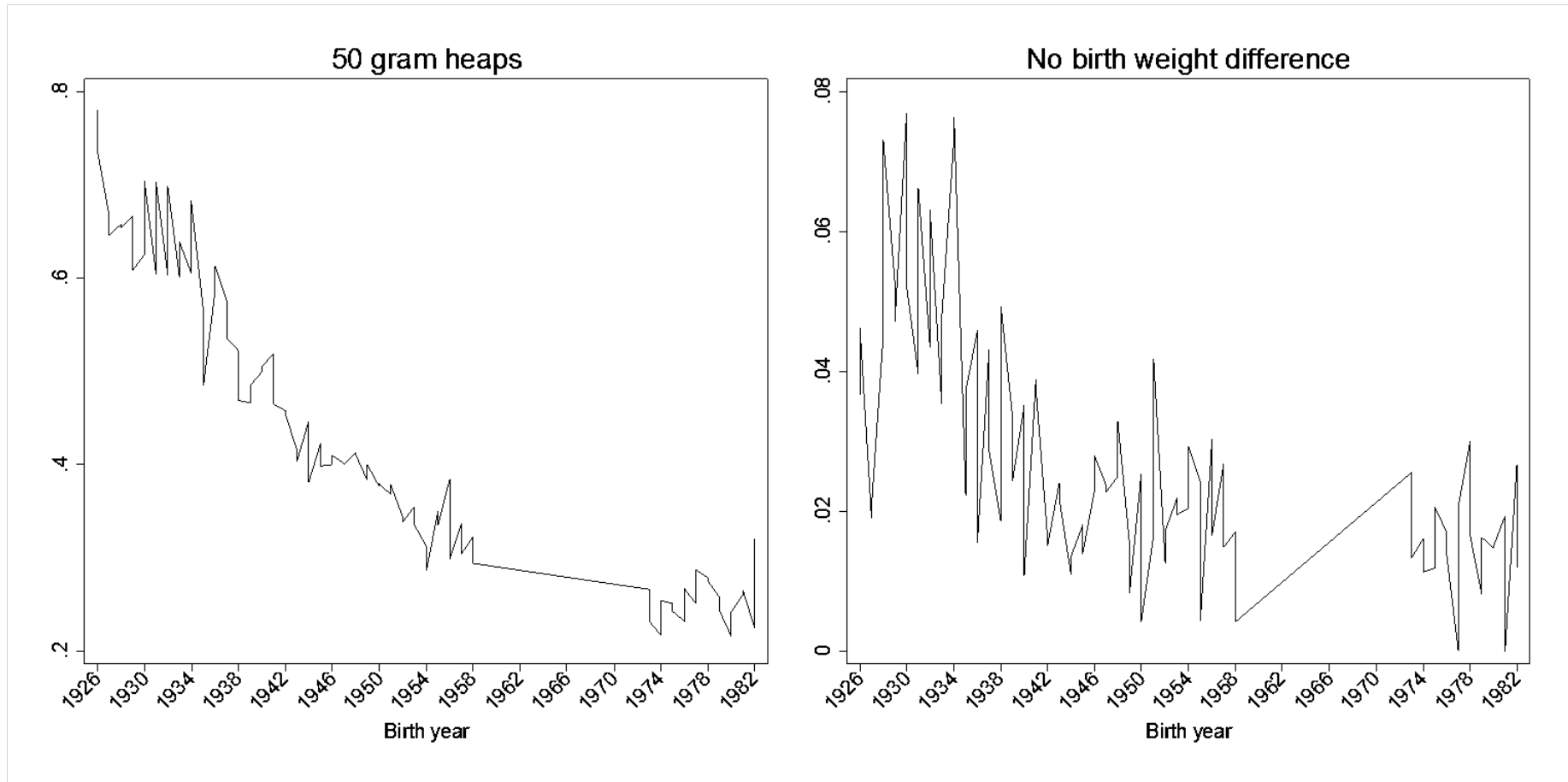


Source: www.mortality.org.

Notes: This graph plots average life expectancy at birth for the cohorts born 1926-1958.

Figure B

Birth weight measurement across cohorts born 1926-1982.



Notes: These graphs plot fraction of twins where birth weight is measured in 50 gram bins (left panel) and fraction of twin pairs with zero difference in birth weight. Cohorts born 1926-1958 and 1973-1982.

Table A

Effects of birth weight on selected outcomes for cohorts born 1973 and onwards and cohorts born 1926-1958. Males.

| Dependent variable | Singletons | | | Twins | |
|---------------------------------|------------------------|------------------------|------------------------|-------------------------|------------------------|
| | OLS | Sibling FE | Sibling FE restricted | OLS | Twins FE |
| Panel A: Cohorts born 1973- | | | | | |
| One-year mortality | -102.402 (1.941)*** | -153.328 (2.910)*** | -131.539 (2.826)*** | -214.389 (10.360)*** | -68.971 (15.569)*** |
| <i>N</i> | 780,341 | 780,335 | | 22,456 | |
| Baseline mean | 5.98 | 5.98 | 5.91 | 26.45 | 26.45 |
| Five minute APGAR score | 0.745 (0.013)*** | 1.083 (0.019)*** | 0.919 (0.020)*** | 1.666 (0.062)*** | 0.466 (0.107)*** |
| <i>N</i> | 701,972 | 701,967 | | 20,522 | |
| Baseline mean | 9.62 | 9.62 | 9.62 | 9.31 | 9.31 |
| High school completion | 0.054 (0.007)*** | -0.007 (0.011) | 0.006 (0.014) | 0.061 (0.030)** | 0.067 (0.050) |
| <i>N</i> | 146,766 | 146,765 | | 4,992 | |
| Baseline mean | 0.78 | 0.78 | 0.78 | 0.79 | 0.79 |
| ln(earnings) Ages 25-33 | 0.060 (0.007)*** | 0.047 (0.013)*** | 0.078 (0.016)*** | 0.039 (0.028) | 0.121 (0.054)** |
| <i>N</i> | 86,365 | 80,739 | | 3,180 | |
| Baseline mean | 287,971 | 287,971 | 288,118 | 287,977 | 287,977 |
| Panel B: Cohorts born 1926-1958 | | | | | |
| High school completion | - | - | - | 0.049 (0.023)** | 0.111 (0.038)*** |
| <i>N</i> | - | - | - | 12,888 | |
| Baseline mean | | | | 0.39 | 0.39 |
| ln(earnings) Ages 25-33 | - | - | - | 0.017 (0.021) | 0.083 (0.036)** |
| <i>N</i> | - | - | - | 8,232 | |
| Baseline mean | | | | 199,529 | 199,529 |
| Years of schooling | - | - | - | 0.114 (0.139) | 0.554 (0.210)*** |
| <i>N</i> | - | - | - | 12,888 | |
| Baseline mean | | | | 10.85 | 10.85 |

Notes: The table shows estimates of the relationship between birth weight and selected

outcomes for the cohorts born 1973 and onwards and cohorts born 1926-1958. The number of

cohorts included depend on the outcome studied, see data section for details. In the OLS

regressions, we control for year and month of birth, mother's education, birth order, mother's

year of birth, and sex of the child. Sibling FE regressions control for all of the above except for mother's year of birth and mother's education. Twin FE regressions control for sex. The third column shows siblingFE results when controlling for gestational ages and when restricting the birth weight range to that in the corresponding twin sample. In the OLS regressions for the cohorts born 1926-1958, we control sex of the child and birth cohort. Clustered standard errors in parentheses. ***p<0.01, **p 0.05, *p 0.1.

Table B

Effects of birth weight on selected outcomes for cohorts born 1973 and onwards and cohorts born 1926-1958. Females.

| Dependent variable | Singletons | | | Twins | |
|---------------------------------|-----------------------|------------------------|------------------------|-------------------------|-----------------------|
| | OLS | Sibling FE | Sibling FE restricted | OLS | Twins FE |
| Panel A: Cohorts born 1973- | | | | | |
| One-year mortality | -86.389 (1.970)*** | -133.421 (3.034)*** | -118.091 (2.926)*** | -172.516 (10.721)*** | -29.857 (12.733)** |
| <i>N</i> | 701,817 | | 701,813 | 21,754 | |
| Baseline mean | 4.76 | 4.76 | 4.55 | 20.04 | 20.04 |
| Five minute APGAR score | 0.652 (0.013)*** | 0.990 (0.020)*** | 0.820 (0.020)*** | 1.499 (0.067)*** | 0.547 (0.099)*** |
| <i>N</i> | 628,488 | | 628,485 | 19,750 | |
| Baseline mean | 9.66 | 9.66 | 9.66 | 9.38 | 9.38 |
| High school completion | 0.053 (0.007)*** | -0.007 (0.011)*** | 0.007 (0.013)*** | 0.016 (0.025) | 0.075 (0.040)* |
| <i>N</i> | 131,016 | | 131,014 | 5,050 | |
| Baseline mean | 0.84 | 0.84 | 0.84 | 0.85 | 0.85 |
| ln(earnings) Ages 25-33 | 0.027 (0.008)*** | 0.037 (0.014)*** | 0.048 (0.017)** | 0.001 (0.028) | 0.141 (0.060)** |
| <i>N</i> | 66,937 | | 64,618 | 2,864 | |
| Baseline mean | 226,942 | 226,942 | 226,865 | 228,458 | 228,458 |
| Panel B: Cohorts born 1926-1958 | | | | | |
| High school completion | - | - | - | 0.054 (0.020)*** | 0.087 (0.033)*** |
| <i>N</i> | - | - | - | 13,266 | |
| Baseline mean | - | - | - | 0.33 | 0.33 |
| ln(earnings) Ages 25-33 | - | - | - | -0.029 (0.038) | 0.100 (0.075) |
| <i>N</i> | - | - | - | 8,168 | |
| Baseline mean | - | - | - | 123,024 | 123,024 |
| Years of schooling | - | - | - | 0.374 (0.120)*** | 0.604 (0.184)*** |
| <i>N</i> | - | - | - | 13,266 | |
| Baseline mean | - | - | - | 10.81 | 10.81 |

Notes: The table shows estimates of the relationship between birth weight and selected

outcomes for the cohorts born 1973 and onwards and cohorts born 1926-1958. The number of cohorts included depend on the outcome studied, see data section for detailed information. In the OLS regressions, we control for year and month of birth, mother's education, birth order,

mother's year of birth, and sex of the child. Sibling FE regressions control for all of the above except for mother's year of birth and mother's education. Twin FE regressions control for sex. The third column shows sibling FE results when controlling for gestational age and when restricting the birth weight range to that in the corresponding twin sample. In the OLS regressions for the cohorts born 1926-1958, we control sex of the child and birth cohort. Clustered standard errors in parentheses. *** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$.

Table C

Effect of birth weight on permanent income by birth cohort categories. Twins FE models.

| | (1) | (2) | (3) | (4) |
|------------------------------|----------|---------|----------|---------|
| | Model A | | Model B | |
| Log birth weight | 0.106*** | 0.111* | 0.105*** | 0.109* |
| | (0.035) | (0.058) | (0.035) | (0.057) |
| Log birth weight*C_1940-1949 | | 0.008 | | 0.013 |
| | | (0.078) | | (0.077) |
| Log birth weight*C_1933-1939 | | -0.053 | | -0.051 |
| | | (0.102) | | (0.100) |
| Observations | 22,588 | 22,588 | 22,588 | 22,588 |
| Number of twin pairs | 11,294 | 11,294 | 11,294 | 11,294 |

Notes: This table shows twins FE estimates of log(birth weight) on permanent income (ages 35-45) across cohorts born 1933-1939, 1940-1949, and 1950-1958. Permanent income is calculated as the average income between the ages 35 and 45. Column (1) shows the estimate for the combined sample of men and women. Column (2) interacts birth weight with the birth cohort categories, i.e. these estimates come from the same regression. Columns (3) and (4) repeats the analysis in Columns (1) and (2), but recodes the birth weight data into 50g bins, i.e., analyzes whether measurement error matters. *p<0.10, **p<0.05, ***p<0.01.

Table D

Literature overview on OLS and twins fixed effects estimates.

| Paper | Short-run outcomes | Medium-run outcomes | Long-run outcomes |
|-------------------------------|--------------------------------------|--|---|
| Almond et al. (2005) | OLS>FE (mortality) | na | na |
| Black et al. (2007) | OLS>FE (mortality & APGAR) | OLS>FE (height) OLS<FE (BMI, IQ) OLS~FE (high school completion) | OLS>FE (full time work) OLS~FE (log earnings) |
| Royer (2009) | OLS>FE (mortality) | OLS~FE (education) | OLS~FE (zip code poverty) OLS>FE (zip code median income, child's birthweight, gestational length, diabetes, labor complications, NICU transfer) OLS<FE (hypertension, pregnancy complications, csection) |
| Oreopolous et al. (2008) | OLS>FE (mortality, physician visits) | OLS>FE (language arts score) | OLS~FE (social assistance after age 18) |
| Figlio et al. (2014) | na | OLS<FE (test scores in school) | na |
| Bharadwaj et al., forthcoming | na | OLS<FE (test scores in school) | na |
| Behrman and Rosenzweig (2004) | | OLS<FE (schooling) OLS>FE (BMI) OLS~FE (height) | OLS<FE (log wage) |
| Nakamuro et al. (2013) | na | OLS<FE (test scores, college ranking) OLS>FE (highest years of schooling) | na |

Notes: This table summarizes the findings from studies that have compared OLS and twin fixed effects estimates of the effect of birth weight on various short-, medium-, and long-run outcomes. See text for details.

Table E

Birth weight and permanent income (ages 35-45). Non-linear specifications. Twin FE models.

| | Pooled | | Males | | Females | |
|---|---------------------|---------------------|--------------------|---------------------|--------------------|---------------------|
| | (1) | (2) | (3) | (4) | (5) | (6) |
| Panel A: Permanent income (age 35-45) | | | | | | |
| A. Less than 1500 grams | -0.033 (0.047) | -0.023 (0.046) | -0.084 (0.060) | -0.060 (0.058) | -0.002 (0.070) | -0.001 (0.069) |
| B. Less than 2000 grams | -0.032 (0.018)* | -0.028 (0.018) | -0.041 (0.023)* | -0.044 (0.022)** | -0.026 (0.027) | -0.018 (0.027) |
| C. Less than 2500 grams | -0.025 (0.012)** | -0.021 (0.012)* | -0.017 (0.013) | -0.013 (0.013) | -0.032 (0.019)* | -0.029 (0.019) |
| Observations | 22,588 | 22,588 | 11,214 | 11,214 | 11,374 | 11,374 |
| # twin pairs | 11,294 | 11,294 | 5,607 | 5,607 | 5,687 | 5,687 |
| Baseline mean | 12.08 | 12.08 | 12.36 | 12.36 | 11.81 | 11.81 |
| Panel B: Permanent labor income (age 35-45) | | | | | | |
| A. Less than 1500 grams | -0.082 (0.054) | -0.069 (0.053) | -0.085 (0.074) | -0.057 (0.072) | -0.080 (0.078) | -0.078 (0.077) |
| B. Less than 2000 grams | -0.038 (0.021)* | -0.033 (0.021) | -0.021 (0.028) | -0.023 (0.028) | -0.048 (0.030) | -0.039 (0.030) |
| C. Less than 2500 grams | -0.034 (0.014)** | -0.029 (0.013)** | -0.019 (0.017) | -0.014 (0.016) | -0.048 (0.021) | -0.043 (0.021)** |
| Observations | 22,200 | 22,200 | 11,060 | 11,060 | 11,140 | 11,140 |
| # twin pairs | 11,100 | 11,100 | 5,530 | 5,530 | 5,570 | 5,570 |
| Baseline mean | 12.02 | 12.02 | 12.31 | 12.31 | 11.73 | 11.73 |
| Control for schooling | No | Yes | No | Yes | No | Yes |

Notes: This table shows twins FE estimates of having a birth weight below various thresholds on permanent income for cohorts born 1933-1958. Columns (1) to (2) show results for the pooled sample of males and females. Columns (3) and (4) show results for males and columns (5) and (6) for females. Panel A show results for permanent total income and Panel B show results for permanent labor income. Income is defined as labor income from employment and self-employment plus taxable benefits, whereas labor income excludes the latter. Permanent income is calculated as the average income between the ages 35 and 45. Years of schooling is included in columns (2), (4), and (6) and is controlled for using discrete categories. The regressions on permanent income include cohorts born 1933-1958. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table F

Birth weight and *income* across the lifecycle. Balanced panels. Twins FE models.

| | Age | | | | | |
|------------------------|--------------------------------|--------------------|--------------------|-------------------|-------------------|-------------------|
| | 30 | 35 | 40 | 45 | 50 | 55 |
| <i>Balanced panels</i> | | | | | | |
| | Panel A: Income, males | | | | | |
| Log birth weight | 0.123 (0.049)** | 0.112 (0.047)** | 0.106 (0.049)** | 0.076 (0.054) | 0.055 (0.062) | 0.052 (0.068) |
| Observations | 7,722 | 7,722 | 7,722 | 7,722 | 7,722 | 7,722 |
| Number of twin pairs | 3,861 | 3,861 | 3,861 | 3,861 | 3,861 | 3,861 |
| Baseline mean | 12.18 | 12.28 | 12.34 | 12.39 | 12.45 | 12.49 |
| | Panel B: Labor income, males | | | | | |
| Log birth weight | 0.122 (0.048)** | 0.116 (0.051)** | 0.110 (0.054)** | 0.099 (0.077) | 0.021 (0.087) | -0.073 (0.108) |
| Observations | 6,668 | 6,668 | 6,668 | 6,668 | 6,668 | 6,668 |
| Number of twin pairs | 3,334 | 3,334 | 3,334 | 3,334 | 3,334 | 3,334 |
| Baseline mean | 12.20 | 12.29 | 12.35 | 12.44 | 12.42 | 12.39 |
| | Panel C: Income, females | | | | | |
| Log birth weight | 0.358 (0.138)*** | 0.239 (0.109)** | 0.082 (0.077) | -0.002 (0.058) | 0.061 (0.056) | 0.089 (0.061) |
| Observations | 7,722 | 7,722 | 7,722 | 7,722 | 7,722 | 7,722 |
| Number of twin pairs | 3,861 | 3,861 | 3,861 | 3,861 | 3,861 | 3,861 |
| Baseline mean | 11.27 | 11.58 | 11.84 | 12.03 | 12.16 | 12.24 |
| | Panel D: Labor income, females | | | | | |
| Log birth weight | 0.284 (0.153)* | 0.193 (0.122) | 0.041 (0.087) | -0.035 (0.073) | -0.009 (0.091) | -0.004 (0.135) |
| Observations | 5,536 | 5,536 | 5,536 | 5,536 | 5,536 | 5,536 |
| Number of twin pairs | 2,768 | 2,768 | 2,768 | 2,768 | 2,768 | 2,768 |
| Baseline mean | 11.31 | 11.58 | 11.83 | 12.09 | 12.11 | 12.11 |

Notes: This table shows twins FE estimates of log(birth weight) on income for a balanced panel across the lifecycle for the cohorts born 1926-

1958. Panels A and B show regressions on average five-year income and average five-year labor income among males. Panels C and D shows the

corresponding regressions for females. Income is defined as labor income from employment and self-employment plus taxable benefits, whereas labor income excludes the latter. The ages in the table refer to the midpoints of the five-year averages. No controls for schooling are made. The cohorts included in the regressions vary, see the text for details. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table G

Birth weight and *income* across the lifecycle. Non-linear specifications. Twins FE models.

| | Age | | | | | | |
|-------------------------|---------------------|--------------------|-------------------|---------------------|---------------------|---------------------|-------------------|
| | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| Male twins, unbalanced | | | | | | | |
| A. Less than 1500 grams | -0.043 (0.069) | -0.042 (0.068) | -0.083 (0.070) | -0.156 (0.077)** | -0.127 (0.084) | -0.037 (0.091) | -0.033 (0.111) |
| B. Less than 2000 grams | -0.060 (0.026)** | -0.038 (0.026) | -0.025 (0.026) | -0.024 (0.028) | -0.054 (0.030)* | -0.045 (0.034) | -0.019 (0.039) |
| C. Less than 2500 grams | -0.034 (0.015)** | -0.029 (0.015)* | -0.022 (0.015) | -0.018 (0.017) | -0.017 (0.018) | 0.006 (0.020) | -0.020 (0.023) |
| Observations | 10,636 | 11,632 | 12,554 | 12,368 | 12,044 | 9,886 | 7,292 |
| Number of twin pairs | 5,318 | 5,816 | 6,277 | 6,184 | 6,022 | 4,943 | 3,646 |
| Baseline mean | 12.16 | 12.27 | 12.33 | 12.39 | 12.44 | 12.44 | 12.43 |
| Male twins, balanced | | | | | | | |
| A. Less than 1500 grams | -0.032 (0.074) | -0.081 (0.072) | -0.087 (0.075) | -0.049 (0.083) | -0.127 (0.095) | 0.012 (0.103) | - - |
| B. Less than 2000 grams | -0.040 (0.028) | -0.032 (0.028) | -0.043 (0.029) | -0.034 (0.032) | -0.075 (0.036)** | -0.081 (0.039)** | - - |
| C. Less than 2500 grams | -0.029 (0.016)* | -0.019 (0.016) | -0.011 (0.017) | -0.006 (0.018) | 0.016 (0.021) | 0.014 (0.022) | - - |
| Observations | 7,722 | 7,722 | 7,722 | 7,722 | 7,722 | 7,722 | - |
| Number of twin pairs | 3,861 | 3,861 | 3,861 | 3,861 | 3,861 | 3,861 | - |
| Baseline mean | 12.18 | 12.28 | 12.34 | 12.39 | 12.45 | 12.49 | |

(continued)

Table G (continued)

| | | | | | | | |
|--------------------------|-------------------|--------------------|-------------------|-------------------|---------------------|--------------------|-----------------------|
| Female twins, unbalanced | | | | | | | |
| A. Less than 1500 grams | -0.063 (0.138) | 0.197 (0.121) | 0.105 (0.100) | -0.035 (0.080) | -0.010 (0.074) | -0.127 (0.081) | -0.288 (0.104) *** |
| B. Less than 2000 grams | -0.034 (0.054) | -0.061 (0.047) | -0.056 (0.039) | 0.025 (0.031) | 0.0019 (0.029) | -0.059 (0.031)* | -0.020 (0.037) |
| C. Less than 2500 grams | -0.018 (0.038) | -0.049 (0.033) | -0.017 (0.027) | -0.009 (0.022) | -0.042 (0.020)** | -0.042 (0.022)* | -0.057 (0.025)** |
| Observations | 9,656 | 11,064 | 12,228 | 12,484 | 12,434 | 10,428 | 8,126 |
| Number of twin pairs | 4,828 | 5,532 | 6,114 | 6,242 | 6,217 | 5,214 | 4,063 |
| Baseline mean | 11.33 | 11.47 | 11.69 | 11.91 | 12.04 | 12.09 | 12.06 |
| Female twins, balanced | | | | | | | |
| A. Less than 1500 grams | -0.166 (0.175) | 0.172 (0.137) | 0.106 (0.098) | 0.030 (0.073) | 0.012 (0.071) | -0.005 (0.076) | - |
| B. Less than 2000 grams | -0.080 (0.065) | -0.099 (0.051)* | -0.046 (0.037) | 0.037 (0.027) | 0.002 (0.026) | -0.011 (0.029) | - |
| C. Less than 2500 grams | -0.019 (0.047) | -0.021 (0.037) | 0.021 (0.026) | 0.034 (0.020)* | 0.0153 (0.019) | -0.005 (0.021) | - |
| Observations | 6,980 | 6,980 | 6,980 | 6,980 | 6,980 | 6,980 | - |
| Number of twin pairs | 3,490 | 3,490 | 3,490 | 3,490 | 3,490 | 3,490 | - |
| Baseline mean | 11.31 | 11.58 | 11.83 | 12.09 | 12.11 | 12.11 | |

Notes: This table shows twins FE estimates of having a birth weight below different thresholds on average five-year income at different ages.

The coefficients come from separate regressions. The ages in the tables refer to the midpoints of the five-year averages. No controls for schooling are made. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table H

Birth weight and *labor* income across the lifecycle. Non-linear specifications. Twins FE models.

| | Age | | | | | | |
|-------------------------|----------------------|--------------------|--------------------|----------------------|----------------------|-------------------|-------------------|
| | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| Male twins, unbalanced | | | | | | | |
| A. Less than 1500 grams | -0.037 (0.072) | -0.047 (0.076) | -0.097 (0.087) | -0.307 (0.104)*** | -0.427 (0.130)*** | -0.022 (0.181) | -0.037 (0.358) |
| B. Less than 2000 grams | -0.062 (0.027)** | -0.041 (0.029) | 0.005 (0.032) | -0.028 (0.038) | -0.129 (0.046)*** | -0.085 (0.064) | -0.125 (0.123) |
| C. Less than 2500 grams | -0.045 (0.016)*** | -0.033 (0.017)* | -0.004 (0.019) | -0.047 (0.023)** | 0.006 (0.027) | 0.056 (0.038) | -0.053 (0.074) |
| Observations | 10,518 | 11,400 | 12,126 | 11,712 | 11,058 | 8,662 | 5,840 |
| Number of twin pairs | 5,259 | 5,700 | 6,063 | 5,856 | 5,529 | 4,331 | 2,920 |
| Baseline mean | 12.14 | 12.24 | 12.28 | 12.42 | 12.37 | 12.33 | 12.14 |
| Male twins, balanced | | | | | | | |
| A. Less than 1500 grams | -0.018 (0.076) | -0.107 (0.079) | -0.077 (0.084) | -0.212 (0.119)* | -0.107 (0.135) | 0.050 (0.168) | - |
| B. Less than 2000 grams | -0.043 (0.029) | -0.027 (0.030) | -0.053 (0.032)* | -0.056 (0.045) | -0.086 (0.051)* | -0.084 (0.063) | - |
| C. Less than 2500 grams | -0.029 (0.016)* | -0.016 (0.017) | -0.018 (0.018) | -0.019 (0.025) | 0.011 (0.029) | 0.036 (0.036) | - |
| Observations | 6,668 | 6,668 | 6,668 | 6,668 | 6,668 | 6,668 | - |
| Number of twin pairs | 3,334 | 3,334 | 3,334 | 3,334 | 3,334 | 3,334 | - |
| Baseline mean | 12.20 | 12.29 | 12.35 | 12.44 | 12.42 | 12.39 | |

(continued)

Table H (continued)

| | | | | | | | |
|--------------------------|-------------------|--------------------|-------------------|-------------------|--------------------|--------------------|---------------------|
| Female twins, unbalanced | | | | | | | |
| A. Less than 1500 grams | -0.071 (0.142) | 0.094 (0.124) | 0.057 (0.110) | -0.127 (0.097) | -0.038 (0.130) | -0.176 (0.157) | -0.565 (0.285)** |
| B. Less than 2000 grams | -0.018 (0.055) | -0.063 (0.048) | -0.046 (0.043) | 0.028 (0.037) | 0.014 (0.050) | -0.071 (0.062) | -0.158 (0.110) |
| C. Less than 2500 grams | -0.018 (0.039) | -0.058 (0.034)* | -0.046 (0.030) | -0.017 (0.026) | -0.067 (0.035)* | -0.082 (0.042)* | -0.107 (0.071) |
| Observations | 9,426 | 10,618 | 11,526 | 11,504 | 10,984 | 8,666 | 5,964 |
| Number of twin pairs | 4,713 | 5,309 | 5,763 | 5,752 | 5,492 | 4,333 | 2,982 |
| Baseline mean | 11.30 | 11.42 | 11.62 | 11.94 | 11.92 | 11.92 | 11.74 |
| Female twins, balanced | | | | | | | |
| A. Less than 1500 grams | -0.098 (0.189) | 0.235 (0.150) | 0.141 (0.108) | 0.070 (0.090) | 0.112 (0.112) | 0.055 (0.167) | - |
| B. Less than 2000 grams | -0.057 (0.074) | -0.055 (0.058) | -0.033 (0.042) | 0.029 (0.035) | 0.007 (0.044) | 0.001 (0.065) | - |
| C. Less than 2500 grams | -0.021 (0.051) | -0.035 (0.041) | 0.019 (0.029) | 0.010 (0.025) | 0.025 (0.030) | -0.017 (0.045) | - |
| Observations | 5,536 | 5,536 | 5,536 | 5,536 | 5,536 | 5,536 | - |
| Number of twin pairs | 2,768 | 2,768 | 2,768 | 2,768 | 2,768 | 2,768 | - |
| Baseline mean | 11.31 | 11.58 | 11.83 | 12.09 | 12.11 | 12.11 | - |

Notes: This table shows twins FE estimates of having a birth weight below different thresholds on average five-year labor income at different ages. The coefficients come from separate regressions. The ages in the tables refer to the midpoints of the five-year averages. No controls for schooling are made. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table I

Descriptive statistics. Hospitalizations. Means and SDs.

| | Old cohorts (1926-1958) | |
|--------------------------------|-------------------------|------------------|
| | Twins | |
| | Males | Females |
| Any hospitalization | 0.633 (0.482) | 0.670 (0.470) |
| Cancer hospitalization | 0.101 (0.302) | 0.184 (0.388) |
| CVD hospitalization | 0.208 (0.406) | 0.140 (0.347) |
| Mental disease hospitalization | 0.049 (0.215) | 0.042 (0.202) |
| Respiratory hospitalization | 0.083 (0.276) | 0.074 (0.262) |
| Diabetes hospitalization | 0.019 (0.135) | 0.013 (0.111) |
| Observations | 13,022 | 13,392 |
| # twin pairs (families) | 6,511 | 6,696 |

Notes: The table shows descriptive statistics for hospitalizations for the “old” cohorts born

1926-1958. The variables measure the fraction that had any hospitalization for various causes during the time period 1987-2008.

Table J

Birth weight and adult cause-specific mortality. Cox proportional hazard models. Males and Females.

| | Males | | | | Females | | | |
|-------------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|--------------------|
| | Cancer | CVD | Resp | Nerve | Cancer | CVD | Resp | Nerve |
| A. Log birth weight | 0.464 (0.258) | 1.069 (0.597) | 1.232 (1.661) | 0.0840 (0.152) | 1.394 (0.714) | 0.614 (0.461) | 0.910 (1.495) | 21.156 (52.830) |
| B. Less than 2500 grams | 0.787 (0.152) | 1.089 (0.225) | 1.400 (0.820) | 6.000 (6.481)* | 0.934 (0.154) | 1.167 (0.290) | 1.750 (1.097) | 0.800 (0.537) |
| C. Lighter twin | 1.130 (0.106) | 1.000 (0.098) | 1.130 (0.324) | 2.500 (1.046)** | 0.873 (0.076) | 1.010 (0.142) | 1.043 (0.304) | 0.650 (0.232) |
| Observations | 13,022 | 13,022 | 13,022 | 13,022 | 13,392 | 13,392 | 13,392 | 13,392 |
| Number of twin pairs | 6,511 | 6,511 | 6,511 | 6,511 | 6,696 | 6,696 | 6,696 | 6,696 |

Notes: This table shows estimates of log(birth weight) on cause-specific mortality for the cohorts born 1926-1958. All coefficients are from Cox proportional hazard models with twin fixed effects (twin-pair specific baseline hazards). The coefficients represent hazard ratios. The coefficients come from separate regressions. No controls for education or income are made. *p<0.10, **p<0.05, ***p<0.01.

