**SUPPLEMENTARY MATERIAL**

Web file only

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| **Table S1. The effect of social class at birth, placental weight and placenta/birth weight ratio on future IHD**  **in Swedish men and women born 1915-1929 and followed from 1970-2008, adjusting for own education (n=10,010).** |
|  |  | **Model 1** | **Model 2a** | **Model 2b** |
| **Exposure** |  | **HR (95% CI)** | **HR (95% CI)** | **HR (95% CI)** |
| **I** | **Social Class** |  |  |  |
|  |  High non-manual§ (reference) | 1 | 1 | 1 |
|  |  Entrepreneur/farmers  | 1.19\* (1.03-1.38) | 1.08 (0.93-1.26) | 1.08 (0.93-1.26) |
|  |  Low non-manual | 1.16 (0.98-1.39) | 1.10 (0.91-1.31) | 1.10 (0.92-1.32) |
|  |  Skilled manual | 1.16\* (1.00-1.35) | 1.06 (0.90-1.24) | 1.06 (0.91-1.24) |
|  |  Unskilled manual, production | 1.23\*\* (1.07-1.41) | 1.11 (0.95-1.28) | 1.11 (0.96-1.28) |
|  |  Unskilled manual, service | 1.22\*\* (1.06-1.41) | 1.14 (0.98-1.32) | 1.14 (0.98-1.33) |
|  |  House-daughters | 1.29\*\* (1.07-1.55) | 1.22 (1.00-1.48) | 1.22\* (1.00-1.49) |
|  | p-valuea | 0.09 | 0.52 | 0.52 |
|  |  |  |  |  |
| **II** | **Birth weight (kg)** | 0.88\*\*\*(0.83-0.94) | 0.82\*\*\*(0.75-0.89) | 0.83\*\*\*(0.77-0.89) |
|  |  |  |  |  |
| **III** | **Placental weight (g)**  |  |  |  |
|  |  ≤550 (reference) | 1 | 1 | - |
|  |  551-650 | 0.93 (0.85-1.02) | 0.97(0.88-1.07) | - |
|  |  651-750 | 0.91\* (0.82-1.00) | 0.97 (0.88-1.08) | - |
|  |  >750 | 0.92 (0.84-1.02) | 1.03 (0.92-1.16) | - |
|  | p-valuea | 0.19 | 0.59 |  |
|  | p-valueb | 0.09 | 0.61 |  |
|  |  |  |  |  |
| **IV** | **Placenta weight/birth weight ratio (%)**  |  |  |  |
|  |  ≤16.5 (reference) | 1 | - | 1 |
|  |  16.5-18.5 | 0.98 (0.88-1.08) | - | 0.99 (0.89-1.09) |
|  |  18.5-20.5 | 1.03 (0.93-1.14) | - | 1.03 (0.94-1.14) |
|  |  >20.5 | 1.01 (0.92-1.11) | - | 1.00 (0.91-1.11) |
|  | p-valuea | 0.73 |  | 0.81 |
|  | p-valueb | 0.55 |  | 0.69 |
|  |  |  |  |  |
| **V** | **Educational Level** |  |  |  |
|  |  Low education | 1 | 1 | 1 |
|  |  Medium education | 0.91\* (0.84-0.98) | 0.93 (0.86-1.01) | 0.93 (0.86-1.01) |
|  |  High education | 0.77\*\*\*(0.68-0.87) | 0.83\*\*(0.73-0.95) | 0.83\*\*(0.73-0.95) |
|  | p-valuea | <0.001 | 0.02 | 0.02 |
|  | p-valueb | <0.001 | 0.004 | 0.004 |
| § Includes intermediate non-manual social classaTest for heterogeneity; bTest for linear trendModel 1: Exposures I, II, III, IV & V adjusted for birth cohort, age, sex; Model 2a: Mutual adjustment of social class (exposure I), birth weight (exposure II) and placental weight (exposure III), plus birth cohort, age, sex, parity, gestational age, educational level (1970 Census); Model 2b: Mutual adjustment of social class (exposure I), birth weight (exposure II) and placenta/birth weight (exposure IV), plus birth cohort, age, sex, parity, gestational age, educational level (1970 Census). \*Significance at the 5% level (p <0.05); \*\*Significance at the 1% level (p<0.01); \*\*\* Significance at the 0.1% level (p<0.001) |

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| **Table S2. The effect of placental weight on future IHD stratified by social class at birth in Swedish men and women born 1915-1929 and followed from 1964-2008 (n=10,503).** |
|  | **Low social class (n=5,492)** | **Medium social class (n=2,228)** | **High social class (n=2,783)** |
|  | **Model 1** | **Model 2** | **Model 1** | **Model 2** | **Model 1** | **Model 2** |
|  | **HR (95% CI)** | **HR (95% CI)** | **HR (95% CI)** | **HR (95% CI)** | **HR (95% CI)** | **HR (95% CI)** |
| **Placental weight (g)**  |  |  |  |  |  |  |
| ≤550 (reference) | 1 | 1 | 1 | 1 | 1 | 1 |
| 551-650 | 0.98(0.87-1.11) | 0.98(0.87-1.10) | 0.84(0.69-1.02) | 0.83(0.69-1.01) | 0.95(0.79-1.15) | 0.95(0.78-1.15) |
| 651-750 | 0.89(0.78-1.01) | 0.87\*(0.77-0.99) | 0.82(0.67-1.01) | 0.82(0.66-1.00) | 1.08(0.89-1.30) | 1.06(0.87-1.28) |
| >750 | 0.94(0.82-1.07) | 0.91(0.80-1.04) | 0.73\*\*(0.59-0.90) | 0.72\*\*(0.58-0.89) | 1.14(0.94-1.38) | 1.12(0.92-1.36) |
| p-valuea | 0.28 | 0.15 | 0.03 | 0.02 | 0.21 | 0.30 |
| p-valueb | 0.14 | 0.06 | 0.005 | 0.004 | 0.07 | 0.12 |
| High social class: higher & intermediate non-manual, entrepreneurs & farmers; medium social class: lower non-manual, skilled manual; low social class: unskilled manual (service & production), house-daughters.aTest for heterogeneity; bTest for linear trendModel 1: adjusted for birth cohort, age, sexModel 2: adjusted for birth cohort, age, sex, parity\*Significance at the 5% level (p <0.05); \*\*Significance at the 1% level (p<0.01) |

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| **Table S3. The effect of placental weight on future IHD stratified by educational level (1970 census) in Swedish men and women born 1915-1929 and followed from 1970-2008 (n=10,010).** |
|  | **Low education (n=6,500)** | **Medium education (n=2,621)** | **High education (n=889)** |
|  | **Model 1** | **Model 2** | **Model 1** | **Model 2** | **Model 1** | **Model 2** |
|  | **HR (95% CI)** | **HR (95% CI)** | **HR (95% CI)** | **HR (95% CI)** | **HR (95% CI)** | **HR (95% CI)** |
| **Placental weight (g)**  |  |  |  |  |  |  |
| ≤550 (reference) | 1 | 1 | 1 | 1 | 1 | 1 |
| 551-650 | 0.87\* (0.78-0.98) | 0.87\* (0.78-0.98) | 1.05(0.88-1.26) | 1.04(0.87-1.24) | 1.01(0.72-1.41) | 1.00(0.71-1.40) |
| 651-750 | 0.85\*\*(0.75-0.95) | 0.84\*\*(0.75-0.95) | 1.01(0.84-1.22) | 0.99(0.82-1.20) | 1.11(0.79-1.55) | 1.09(0.78-1.53) |
| >750 | 0.88\*(0.78-1.00) | 0.87\*(0.77-0.99) | 1.03(0.84-1.25) | 1.00(0.82-1.22) | 0.95(0.67-1.35) | 0.94(0.66-1.33) |
| p-valuea | 0.03 | 0.02 | 0.95 | 0.96 | 0.82 | 0.83 |
| p-valueb | 0.04 | 0.02 | 0.94 | 0.88 | 0.93 | 0.87 |
| Low education: less than upper-secondary education; medium education: upper-secondary schooling; high education: any post-secondary education.aTest for heterogeneity; bTest for linear trendModel 1: adjusted for birth cohort, age, sexModel 2: adjusted for birth cohort, age, sex, parity\*Significance at the 5% level (p <0.05); \*\*Significance at the 1% level (p<0.01) |