Supplementary Material Chapter 3

Supplementary table 1. Full results for main adjusted models (N= 2 334 036).

Stable low	Variable	Preterm birth	SGA
Improving to high	Stable medium	1.04(0.99;1.09)	1.03(0.99;1.07)
Improving to medium	Stable low	1.12(1.07;1.17)	1.19(1.15;1.23)
Declining to medium 1.03(0.97;1.10) 1.03(0.98;1.08)	Improving to high	0.98(0.91;1.06)	0.97(0.92;1.03)
Declining to low	Improving to medium	1.09(1.02;1.18)	1.04(0.98;1.10)
Cohort 2 0.98(0.94;1.03) 0.91(0.88;0.94) Cohort 3 0.97(0.93;1.02) 0.92(0.89;0.95) Cohort 4 0.92(0.88;0.96) 0.93(0.90;0.96) Maternal age (20-34) 1.01(0.97;1.06) 0.97(0.94;1.00) Maternal age (>35) 1.21(1.16;1.27) 1.15(1.11;1.19) Multiparous 0.51(0.51;0.52) 0.46(0.45;0.46) Moroccan 0.81(0.78;0.83) 0.92(0.90;0.94) Turkish 0.91(0.88;0.94) 1.08(1.05;1.11) Suriname 1.47(1.42;1.52) 2.42(2.37;2.48) Antillean 1.33(1.27;1.39) 1.44(1.39;1.49) Other non-western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.90(0.87;0.92) 1.06(1.04;1.07) Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.90) Mousehold income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.60;0.61) Stable medium:Cohort 2 1.0	Declining to medium	1.03(0.97;1.10)	1.03(0.98;1.08)
Cohort 3 0.97(0.93;1.02) 0.92(0.89;0.95) Cohort 4 0.92(0.88;0.96) 0.93(0.90;0.96) Maternal age (20-34) 1.01(0.97;1.06) 0.97(0.94;1.00) Maternal age (35) 1.21(1.16;1.27) 1.15(1.11;1.19) Multiparous 0.51(0.51;0.52) 0.46(0.45;0.46) Moroccan 0.81(0.78;0.83) 0.92(0.90;0.94) Turkish 0.91(0.88;0.94) 1.08(1.05;1.11) Suriname 1.47(1.42;1.52) 2.42(2.37;2.48) Antillean 1.33(1.27;1.39) 1.44(1.39;1.49) Other non-western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.90(0.87;0.92) 1.06(1.04;1.07) Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.94) Migrant second generation 1.06(1.04;1.09) 1.08(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.05(0.66;0.61) Stable medium:Cohort 2 1.04(0.99;1.12) 1.05(0.11;1.09) Improving to mediu	Declining to low	1.12(1.05;1.20)	1.12(1.06;1.18)
Cohort 4 0.92(0.88;0.96) 0.93(0.90;0.96) Maternal age (20-34) 1.01(0.97;1.06) 0.97(0.94;1.00) Maternal age (>35) 1.21(1.16;1.27) 1.15(1.11;1.19) Multiparous 0.51(0.51;0.52) 0.46(0.45;0.46) Moroccan 0.81(0.78;0.83) 0.92(0.90;0.94) Turkish 0.91(0.88;0.94) 1.08(1.05;1.11) Suriname 1.47(1.42;1.52) 2.42(2.37;2.48) Antillean 1.33(1.27;1.39) 1.44(1.39;1.49) Other non-western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.90(0.87;0.92) 1.06(1.04;1.07) Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.94) Migrant second generation 1.06(1.04;1.09) 1.08(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stabl	Cohort 2	0.98(0.94;1.03)	0.91(0.88;0.94)
Maternal age (20-34) 1.01(0.97;1.06) 0.97(0.94;1.00) Maternal age (>35) 1.21(1.16;1.27) 1.15(1.11;1.19) Multiparous 0.51(0.51;0.52) 0.46(0.45;0.46) Moroccan 0.81(0.78;0.83) 0.92(0.90;0.94) Turkish 0.91(0.88;0.94) 1.08(1.05;1.11) Suriname 1.47(1.42;1.52) 2.42(2.37;2.48) Antillean 1.33(1.27;1.39) 1.44(1.39;1.49) Other non-western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.90(0.87;0.92) 1.06(1.04;1.07) Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.94) Migrant second generation 1.06(1.04;1.09) 1.08(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) <	Cohort 3	0.97(0.93;1.02)	0.92(0.89;0.95)
Maternal age (>35) 1.21(1.16;1.27) 1.15(1.11;1.19) Multiparous 0.51(0.51;0.52) 0.46(0.45;0.46) Moroccan 0.81(0.78;0.83) 0.92(0.90;0.94) Turkish 0.91(0.88;0.94) 1.08(1.05;1.11) Suriname 1.47(1.42;1.52) 2.42(2.37;2.48) Antillean 1.33(1.27;1.39) 1.44(1.39;1.49) Other non-western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.90(0.87;0.92) 1.06(1.04;1.07) Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.94) Migrant second generation 1.06(1.04;1.09) 1.083(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) <td>Cohort 4</td> <td>0.92(0.88;0.96)</td> <td>0.93(0.90;0.96)</td>	Cohort 4	0.92(0.88;0.96)	0.93(0.90;0.96)
Multiparous 0.51(0.51;0.52) 0.46(0.45;0.46) Moroccan 0.81(0.78;0.83) 0.92(0.90;0.94) Turkish 0.91(0.88;0.94) 1.08(1.05;1.11) Suriname 1.47(1.42;1.52) 2.42(2.37;2.48) Antillean 1.33(1.27;1.39) 1.44(1.39;1.49) Other non-western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.90(0.87;0.92) 1.06(1.04;1.07) Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.94) Migrant second generation 1.06(1.04;1.09) 1.08(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to low:Cohort 2 0.97(0.89;1.06) 0.99(0.93;1.06)	Maternal age (20-34)	1.01(0.97;1.06)	0.97(0.94;1.00)
Moroccan 0.81(0.78;0.83) 0.92(0.90;0.94) Turkish 0.91(0.88;0.94) 1.08(1.05;1.11) Suriname 1.47(1.42;1.52) 2.42(2.37;2.48) Antillean 1.33(1.27;1.39) 1.44(1.39;1.49) Other non-western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.90(0.87;0.92) 1.06(1.04;1.07) Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.94) Migrant second generation 1.06(1.04;1.09) 1.08(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.02(0.96;1.08) 1.01(0.97;1.05) Improving to high:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.14) Declining to low:Cohort 2 0.99(0.89;1.05) 0.98(0.	Maternal age (>35)	1.21(1.16;1.27)	1.15(1.11;1.19)
Turkish 0.91(0.88;0.94) 1.08(1.05;1.11) Suriname 1.47(1.42;1.52) 2.42(2.37;2.48) Antillean 1.33(1.27;1.39) 1.44(1.39;1.49) Other non-western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.99(0.87;0.92) 1.06(1.04;1.07) Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.94) Migrant second generation 1.06(1.04;1.09) 1.08(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable medium:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to high:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to medium:Cohort 2 0.99(0.89;1.01) 0.99(0.93;1.06) Declining to low:Cohort 3 1.03(0.94;1.11) 0.99(0.93;1.04) Stable medium:Cohort 3 1.03(0.94;1.14)	Multiparous	0.51(0.51;0.52)	0.46(0.45;0.46)
Suriname 1.47(1.4z):1.52) 2.42(2.37;2.48) Antillean 1.33(1.27;1.39) 1.44(1.39;1.49) Other non-western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.90(0.87;0.92) 1.06(1.04;1.07) Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.94) Migrant second generation 1.06(1.04;1.09) 1.08(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.02(0.96;1.08) 1.01(0.97;1.05) Improving to high:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to low:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable low:Cohort 3 1.03(0.94;1.11) 0.99(0.92;1.00) Improving to high:Cohort 3 1.04(0.94	Moroccan	0.81(0.78;0.83)	0.92(0.90;0.94)
Antillean 1.33(1.27;1.39) 1.44(1.39;1.49) Other non-western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.90(0.87;0.92) 1.06(1.04;1.07) Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.94) Migrant second generation 1.06(1.04;1.09) 1.08(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.02(0.96;1.08) 1.01(0.97;1.05) Improving to high:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to medium:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.94;1.11) 0.99(0.92;1.00) Improving to high:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to medium:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10)	Turkish	0.91(0.88;0.94)	1.08(1.05;1.11)
Other non-western 0.93(0.90;0.95) 1.33(1.30;1.35) Other western 0.90(0.87;0.92) 1.06(1.04;1.07) Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.94) Migrant second generation 1.06(1.04;1.09) 1.08(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.02(0.96;1.08) 1.01(0.97;1.05) Improving to high:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to low:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.94;1.11) 0.99(0.92;1.00) Improving to high:Cohort 3 1.04(0.94;1.14) 1.00(0.96;1.04) Stable low:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Coh	Suriname	1.47(1.42;1.52)	2.42(2.37;2.48)
Other western 0.90(0.87;0.92) 1.06(1.04;1.07) Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.94) Migrant second generation 1.06(1.04;1.09) 1.08(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.02(0.96;1.08) 1.01(0.97;1.05) Improving to high:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to low:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.94;1.11) 0.99(0.93;1.06) Stable low:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to medium:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining	Antillean	1.33(1.27;1.39)	1.44(1.39;1.49)
Migrant first generation 0.94(0.91;0.96) 0.92(0.90;0.94) Migrant second generation 1.06(1.04;1.09) 1.08(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.02(0.96;1.08) 1.01(0.97;1.05) Improving to high:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to low:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.98;1.08) 1.00(0.96;1.04) Stable low:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12)	Other non-western	0.93(0.90;0.95)	1.33(1.30;1.35)
Migrant second generation 1.06(1.04;1.09) 1.08(1.06;1.10) Household income Q2 0.87(0.85;0.89) 0.84(0.83;0.86) Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.02(0.96;1.08) 1.01(0.97;1.05) Improving to high:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to medium:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.98;1.08) 1.00(0.96;1.04) Stable low:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to medium:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 0.95(0.87;1.04) 0.99(0.84;0.96)	Other western	0.90(0.87;0.92)	1.06(1.04;1.07)
Household income Q2	Migrant first generation	0.94(0.91;0.96)	0.92(0.90;0.94)
Household income Q3 0.84(0.82;0.85) 0.73(0.72;0.74) Household income Q4 0.81(0.79;0.82) 0.65(0.64;0.65) Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.02(0.96;1.08) 1.01(0.97;1.05) Improving to high:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to medium:Cohort 2 0.97(0.89;1.09) 1.04(0.96;1.13) Declining to low:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.98;1.08) 1.00(0.96;1.04) Stable low:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to high:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 0.95(0.87;1.04) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Migrant second generation	1.06(1.04;1.09)	1.08(1.06;1.10)
Household income Q4 O.81(0.79;0.82) O.65(0.64;0.65) Household income Q5 (highest) O.78(0.76;0.79) O.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) Stable low:Cohort 2 1.02(0.96;1.08) Improving to high:Cohort 2 1.09(0.97;1.21) Improving to medium:Cohort 2 Declining to medium:Cohort 2 Declining to low:Cohort 2 O.98(0.89;1.09) Declining to low:Cohort 2 O.97(0.89;1.05) Stable medium:Cohort 3 O.97(0.89;1.08) T.00(0.96;1.04) Stable low:Cohort 3 T.01(0.95;1.06) Declining to high:Cohort 3 T.01(0.95;1.06) Declining to medium:Cohort 3 Declining to low:Cohort 3 Declining to low:Cohor	Household income Q2	0.87(0.85;0.89)	0.84(0.83;0.86)
Household income Q5 (highest) 0.78(0.76;0.79) 0.60(0.60;0.61) Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.02(0.96;1.08) 1.01(0.97;1.05) Improving to high:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to medium:Cohort 2 1.03(0.94;1.11) 0.99(0.93;1.06) Declining to low:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.98;1.08) 1.00(0.96;1.04) Stable low:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to high:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 0.95(0.87;1.04) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Household income Q3	0.84(0.82;0.85)	0.73(0.72;0.74)
Stable medium:Cohort 2 1.04(0.99;1.09) 1.05(1.01;1.09) Stable low:Cohort 2 1.02(0.96;1.08) 1.01(0.97;1.05) Improving to high:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to medium:Cohort 2 1.03(0.94;1.11) 0.99(0.93;1.06) Declining to low:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.98;1.08) 1.00(0.96;1.04) Stable low:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to high:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 1.05(0.95;1.16) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)		0.81(0.79;0.82)	0.65(0.64;0.65)
Stable low:Cohort 2 1.02(0.96;1.08) 1.01(0.97;1.05) Improving to high:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to medium:Cohort 2 1.03(0.94;1.11) 0.99(0.93;1.06) Declining to low:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.98;1.08) 1.00(0.96;1.04) Stable low:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to high:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 0.95(0.87;1.04) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Household income Q5 (highest)	0.78(0.76;0.79)	0.60(0.60;0.61)
Improving to high:Cohort 2 1.09(0.97;1.21) 1.04(0.96;1.14) Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to medium:Cohort 2 1.03(0.94;1.11) 0.99(0.93;1.06) Declining to low:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.98;1.08) 1.00(0.96;1.04) Stable low:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to high:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 1.05(0.95;1.16) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Stable medium:Cohort 2	1.04(0.99;1.09)	1.05(1.01;1.09)
Improving to medium:Cohort 2 0.98(0.89;1.09) 1.04(0.96;1.13) Declining to medium:Cohort 2 1.03(0.94;1.11) 0.99(0.93;1.06) Declining to low:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.98;1.08) 1.00(0.96;1.04) Stable low:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to high:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 1.05(0.95;1.16) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Stable low:Cohort 2	1.02(0.96;1.08)	1.01(0.97;1.05)
Declining to medium:Cohort 2 1.03(0.94;1.11) 0.99(0.93;1.06) Declining to low:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.98;1.08) 1.00(0.96;1.04) Stable low:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to high:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 1.05(0.95;1.16) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Improving to high:Cohort 2	1.09(0.97;1.21)	1.04(0.96;1.14)
Declining to low:Cohort 2 0.97(0.89;1.05) 0.98(0.91;1.04) Stable medium:Cohort 3 1.03(0.98;1.08) 1.00(0.96;1.04) Stable low:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to high:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 1.05(0.95;1.16) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Improving to medium:Cohort 2	0.98(0.89;1.09)	1.04(0.96;1.13)
Stable medium:Cohort 3 1.03(0.98;1.08) 1.00(0.96;1.04) Stable low:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to high:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 1.05(0.95;1.16) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Declining to medium:Cohort 2	1.03(0.94;1.11)	0.99(0.93;1.06)
Stable low:Cohort 3 1.01(0.95;1.06) 0.96(0.92;1.00) Improving to high:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 1.05(0.95;1.16) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Declining to low:Cohort 2	0.97(0.89;1.05)	
Improving to high:Cohort 3 1.04(0.94;1.14) 1.02(0.95;1.10) Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 1.05(0.95;1.16) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Stable medium:Cohort 3	1.03(0.98;1.08)	1.00(0.96;1.04)
Improving to medium:Cohort 3 0.94(0.86;1.03) 1.04(0.98;1.12) Declining to medium:Cohort 3 1.05(0.95;1.16) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Stable low:Cohort 3	1.01(0.95;1.06)	0.96(0.92;1.00)
Declining to medium:Cohort 3 1.05(0.95;1.16) 0.95(0.88;1.03) Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Improving to high:Cohort 3	1.04(0.94;1.14)	1.02(0.95;1.10)
Declining to low:Cohort 3 0.95(0.87;1.04) 0.90(0.84;0.96)	Improving to medium:Cohort 3	0.94(0.86;1.03)	1.04(0.98;1.12)
	Declining to medium:Cohort 3	1.05(0.95;1.16)	0.95(0.88;1.03)
Stable medium:Cohort 4 1.03(0.98;1.08) 0.98(0.94;1.02)	Declining to low:Cohort 3	0.95(0.87;1.04)	0.90(0.84;0.96)
	Stable medium:Cohort 4	1.03(0.98;1.08)	0.98(0.94;1.02)

Stable low:Cohort 4	1.02(0.96;1.07)	0.95(0.91;0.99)
Improving to high:Cohort 4	1.01(0.90;1.13)	1.05(0.96;1.14)
Improving to medium:Cohort 4	0.99(0.89;1.10)	0.95(0.88;1.04)
Declining to medium:Cohort 4	1.00(0.91;1.11)	0.97(0.90;1.04)
Declining to low:Cohort 4	0.98(0.90;1.07)	0.94(0.88;1.01)

Models adjusted for maternal age, parity, migration background (ethnicity and generation) and household income. For categorical variables, omitted categories are reference categories.

Supplementary table 2. Sensitivity analysis 1: Models adjusted for individual-level characteristics and duration of residence in the neighbourhood (N= 2 334 036).

Variable	Preterm birth	SGA
Stable medium	1.04(0.99;1.09)	1.03(0.99;1.07)
Stable low	1.12(1.08;1.17)	1.19(1.15;1.23)
Improving to high	0.98(0.91;1.06)	0.97(0.92;1.03)
Improving to medium	1.09(1.02;1.18)	1.04(0.98;1.10)
Declining to medium	1.03(0.97;1.10)	1.03(0.98;1.08)
Declining to low	1.12(1.05;1.20)	1.12(1.06;1.17)
Cohort 2	0.99(0.94;1.03)	0.91(0.88;0.94)
Cohort 3	0.97(0.93;1.02)	0.92(0.89;0.95)
Cohort 4	0.93(0.89;0.97)	0.92(0.89;0.95)
Maternal age (20-34)	1.01(0.97;1.06)	0.98(0.95;1.01)
Maternal age (>35)	1.21(1.15;1.26)	1.16(1.12;1.19)
Multiparous	0.51(0.51;0.52)	0.46(0.45;0.46)
Moroccan	0.81(0.78;0.84)	0.92(0.90;0.94)
Turkish	0.91(0.88;0.94)	1.08(1.06;1.11)
Suriname	1.47(1.42;1.52)	2.42(2.37;2.48)
Antillean	1.33(1.27;1.39)	1.44(1.39;1.48)
Other non-western	0.93(0.91;0.95)	1.33(1.30;1.35)
Other western	0.89(0.87;0.92)	1.05(1.04;1.07)
Migrant first generation	0.93(0.91;0.96)	0.92(0.90;0.94)
Migrant second generation	1.07(1.04;1.09)	1.08(1.06;1.10)
Household income Q2	0.87(0.85;0.89)	0.85(0.83;0.86)
Household income Q3	0.84(0.82;0.85)	0.73(0.72;0.74)
Household income Q4	0.81(0.79;0.83)	0.65(0.64;0.66)
Household income Q5 (highest)	0.78(0.76;0.79)	0.61(0.60;0.62)
Time in address	1.00(1.00;1.00)	1.00(1.00;1.00)
Stable medium:Cohort 2	1.03(0.98;1.09)	1.05(1.01;1.09)
Stable low:Cohort 2	1.02(0.96;1.07)	1.01(0.97;1.05)
Improving to high:Cohort 2	1.08(0.97;1.21)	1.04(0.96;1.14)
Improving to medium:Cohort 2	0.98(0.89;1.09)	1.04(0.96;1.13)
Declining to medium:Cohort 2	1.03(0.94;1.11)	1.00(0.93;1.06)
Declining to low:Cohort 2	0.97(0.88;1.05)	0.98(0.92;1.05)
Stable medium:Cohort 3	1.03(0.98;1.08)	1.00(0.96;1.04)
Stable low:Cohort 3	1.00(0.95;1.06)	0.97(0.93;1.01)
Improving to high:Cohort 3	1.04(0.94;1.14)	1.02(0.95;1.10)
Improving to medium:Cohort 3	0.94(0.86;1.03)	1.04(0.98;1.12)
Declining to medium:Cohort 3	1.05(0.95;1.16)	0.95(0.88;1.03)
Declining to low:Cohort 3	0.95(0.87;1.04)	0.90(0.84;0.96)
Stable medium:Cohort 4	1.03(0.98;1.08)	0.98(0.94;1.02)
Stable low:Cohort 4	1.01(0.96;1.07)	0.95(0.92;0.99)

Improving to high:Cohort 4	1.00(0.89;1.13)	1.05(0.96;1.14)
Improving to medium:Cohort 4	0.99(0.89;1.10)	0.95(0.88;1.04)
Declining to medium:Cohort 4	1.00(0.91;1.11)	0.97(0.90;1.04)
Declining to low:Cohort 4	0.98(0.90;1.07)	0.95(0.89;1.01)

Models adjusted for maternal age, parity, migration background (ethnicity and generation) and household income and duration of residence in the neighbourhood.
For categorical variables, omitted categories are reference categories.

Supplementary table 3. Models excluding observations from years 2006, 2010 and 2014 from the analysis (N= 1 860 958).

Variable	Preterm birth	SGA
Stable medium	1.05(0.99;1.10)	1.04(0.99;1.08)
Stable low	1.12(1.08;1.17)	1.20(1.16;1.25)
Improving to high	0.98(0.91;1.06)	0.97(0.91;1.03)
Improving to medium	1.09(1.01;1.18)	1.05(0.99;1.11)
Declining to medium	1.03(0.97;1.10)	1.04(0.98;1.09)
Declining to low	1.12(1.05;1.19)	1.12(1.07;1.18)
Cohort 2	0.98(0.94;1.03)	0.90(0.87;0.93)
Cohort 3	0.97(0.93;1.02)	0.95(0.91;0.98)
Cohort 4	0.92(0.88;0.97)	0.93(0.90;0.97)
Maternal age (20-34)	1.00(0.95;1.05)	0.98(0.94;1.01)
Maternal age (>35)	1.19(1.13;1.25)	1.15(1.11;1.20)
Multiparous	0.51(0.50;0.51)	0.46(0.45;0.46)
Moroccan	0.81(0.79;0.85)	0.92(0.89;0.94)
Turkish	0.91(0.88;0.95)	1.09(1.06;1.12)
Suriname	1.47(1.42;1.53)	2.43(2.37;2.49)
Antillean	1.37(1.30;1.44)	1.45(1.40;1.50)
Other non-western	0.94(0.91;0.96)	1.33(1.31;1.36)
Other western	0.90(0.88;0.92)	1.06(1.04;1.08)
Migrant first generation	0.94(0.91;0.96)	0.92(0.90;0.94)
Migrant second generation	1.07(1.04;1.09)	1.08(1.06;1.10)
Household income Q2	0.87(0.85;0.89)	0.85(0.83;0.86)
Household income Q3	0.84(0.82;0.86)	0.73(0.72;0.74)
Household income Q4	0.81(0.80;0.83)	0.64(0.63;0.65)
Household income Q5 (highest)	0.78(0.76;0.80)	0.60(0.59;0.61)
Stable medium:Cohort 2	1.04(0.98;1.10)	1.04(1.00;1.08)
Stable low:Cohort 2	1.00 (0.94;1.06)	1.00 (0.96;1.05)
Improving to high:Cohort 2	1.07(0.95;1.20)	1.07(0.97;1.17)
Improving to medium:Cohort 2	0.99(0.89;1.11)	1.04(0.95;1.13)
Declining to medium:Cohort 2	1.01(0.93;1.10)	0.98(0.91;1.05)
Declining to low:Cohort 2	0.98(0.89;1.08)	0.97(0.91;1.04)
Stable medium:Cohort 3	1.02(0.96;1.07)	0.98(0.94;1.02)
Stable low:Cohort 3	0.99(0.93;1.05)	0.95(0.91;1.00)
Improving to high:Cohort 3	1.03(0.93;1.14)	1.02(0.94;1.10)
Improving to medium:Cohort 3	0.94(0.86;1.04)	1.03(0.96;1.10)
Declining to medium:Cohort 3	1.06(0.95;1.19)	0.95(0.87;1.04)
Declining to low:Cohort 3	0.92(0.83;1.01)	0.88(0.81;0.94)
Stable medium:Cohort 4	1.02(0.96;1.07)	0.98(0.94;1.02)
Stable low:Cohort 4	1.00 (0.95;1.07)	0.95(0.91;0.99)

Improving to high:Cohort 4	1.00 (0.88;1.14)	1.08(0.98;1.19)
Improving to medium:Cohort 4	0.96(0.85;1.08)	0.93(0.85;1.02)
Declining to medium:Cohort 4	0.99(0.89;1.10)	0.97(0.89;1.05)
Declining to low:Cohort 4	1.01(0.92;1.11)	0.94(0.88;1.01)

Models adjusted for maternal age, parity, migration background (ethnicity and generation) and household income. For categorical variables, omitted categories are reference categories.

Supplementary table 4. Sensitivity analysis 3a: Analysis restricted to women that have been living for at least 1 year in the same address at the time of delivery(N=2 274 449).

Variable	Preterm birth	SGA
Stable medium	1.04(0.99;1.09)	1.03(0.99;1.08)
Stable low	1.11(1.07;1.16)	1.19(1.15;1.24)
Improving to high	0.97(0.89;1.05)	0.99(0.93;1.05)
Improving to medium	1.10(1.02;1.18)	1.04(0.99;1.11)
Declining to medium	1.03(0.96;1.10)	1.03(0.98;1.08)
Declining to low	1.11(1.04;1.19)	1.13(1.07;1.18)
Cohort 2	0.98(0.94;1.03)	0.91(0.88;0.94)
Cohort 3	0.97(0.93;1.01)	0.92(0.89;0.96)
Cohort 4	0.92(0.88;0.96)	0.93(0.90;0.96)
Maternal age (20-34)	1.03(0.98;1.08)	0.97(0.94;1.00)
Maternal age (>35)	1.23(1.17;1.30)	1.15(1.11;1.19)
Multiparous	0.51(0.50;0.52)	0.46(0.45;0.46)
Moroccan	0.82(0.79;0.84)	0.93(0.91;0.95)
Turkish	0.92(0.89;0.95)	1.09(1.07;1.12)
Suriname	1.47(1.42;1.52)	2.45(2.39;2.50)
Antillean	1.33(1.27;1.40)	1.44(1.39;1.49)
Other non-western	0.93(0.91;0.96)	1.34(1.31;1.36)
Other western	0.90(0.88;0.92)	1.06(1.04;1.08)
Migrant first generation	0.94(0.91;0.96)	0.92(0.90;0.94)
Migrant second generation	1.06(1.04;1.09)	1.08(1.06;1.10)
Household income Q2	0.87(0.86;0.89)	0.85(0.84;0.86)
Household income Q3	0.84(0.82;0.86)	0.74(0.73;0.75)
Household income Q4	0.81(0.80;0.83)	0.65(0.64;0.66)
Household income Q5 (highest)	0.78(0.76;0.80)	0.61(0.60;0.62)
Stable medium:Cohort 2	1.04(0.99;1.09)	1.05(1.01;1.09)
Stable low:Cohort 2	1.02(0.96;1.08)	1.01(0.97;1.05)
Improving to high:Cohort 2	1.11(0.99;1.23)	1.04(0.95;1.13)
Improving to medium:Cohort 2	0.97(0.88;1.08)	1.05(0.97;1.14)
Declining to medium:Cohort 2	1.03(0.94;1.12)	0.99(0.93;1.06)
Declining to low:Cohort 2	0.97(0.89;1.06)	0.97(0.91;1.04)
Stable medium:Cohort 3	1.03(0.98;1.09)	0.99(0.96;1.03)
Stable low:Cohort 3	1.01(0.96;1.07)	0.96(0.92;1.01)
Improving to high:Cohort 3	1.05(0.95;1.16)	1.01(0.94;1.09)
Improving to medium:Cohort 3	0.94(0.86;1.03)	1.04(0.97;1.12)
Declining to medium:Cohort 3	1.06(0.96;1.18)	0.95(0.88;1.03)
Declining to low:Cohort 3	0.96(0.88;1.06)	0.89(0.83;0.96)
Stable medium:Cohort 4	1.03(0.98;1.08)	0.98(0.94;1.01)
Stable low:Cohort 4	1.02(0.97;1.08)	0.95(0.91;0.99)
Improving to high:Cohort 4	1.03(0.91;1.16)	1.03(0.95;1.13)

Improving to medium:Cohort 4	0.98(0.88;1.09)	0.94(0.87;1.03)
Declining to medium:Cohort 4	1.02(0.92;1.13)	0.97(0.90;1.05)
Declining to low:Cohort 4	0.99(0.91;1.08)	0.95(0.89;1.01)

Models adjusted for maternal age, parity, migration background (ethnicity and generation) and household income.

For categorical variables, omitted categories are reference categories.

Supplementary table 5. Sensitivity analysis 3b: Analysis restricted to women living in the same address throughout the entire 4-years period corresponding to the assigned exposure (neighbourhood SES trajectory) (N= 1 164 759).

Variable	Preterm birth	SGA
Stable medium	1.05(0.99;1.13)	1.02(0.97;1.06)
Stable low	1.17(1.09;1.25)	1.17(1.11;1.23)
Improving to high	1.02(0.90;1.14)	0.98(0.90;1.07)
Improving to medium	1.12(1.01;1.26)	1.00(0.92;1.09)
Declining to medium	1.00(0.91;1.11)	1.04(0.96;1.12)
Declining to low	1.09(1.01;1.18)	1.12(1.04;1.20)
Cohort 2	1.00(0.93;1.06)	0.90(0.86;0.95)
Cohort 3	0.99(0.93;1.06)	0.87(0.83;0.91)
Cohort 4	0.96(0.90;1.02)	0.89(0.85;0.93)
Maternal age (20-34)	1.06(0.98;1.14)	0.96(0.90;1.01)
Maternal age (>35)	1.30(1.20;1.41)	1.14(1.07;1.20)
Multiparous	0.46(0.45;0.47)	0.43(0.42;0.43)
Moroccan	0.89(0.85;0.94)	0.95(0.91;0.98)
Turkish	1.07(1.02;1.12)	1.16(1.12;1.20)
Suriname	1.63(1.55;1.71)	2.60(2.51;2.69)
Antillean	1.45(1.35;1.55)	1.49(1.41;1.57)
Other non-western	1.10(1.05;1.14)	1.34(1.30;1.38)
Other western	0.98(0.95;1.02)	1.09(1.06;1.12)
Migrant first generation	0.99(0.93;1.03)	0.92(0.90;0.94)
Migrant second generation	1.01(0.97;1.04)	1.07(1.05;1.10)
Household income Q2	0.87(0.85;0.90)	0.85(0.83;0.87)
Household income Q3	0.84(0.81;0.86)	0.73(0.72;0.75)
Household income Q4	0.80(0.78;0.82)	0.66(0.64;0.67)
Household income Q5 (highest)	0.77(0.74;0.79)	0.62(0.60;0.63)
Stable medium:Cohort 2	1.03(0.96;1.11)	1.06(1.00;1.12)
Stable low:Cohort 2	0.97(0.90;1.06)	1.03(0.97;1.09)
Improving to high:Cohort 2	1.06(0.90;1.24)	1.03(0.91;1.16)
Improving to medium:Cohort 2	0.94(0.81;1.09)	1.05(0.94;1.18)
Declining to medium:Cohort 2	1.08(0.96;1.23)	1.00(0.91;1.10)
Declining to low:Cohort 2	0.99(0.86;1.12)	0.99(0.90;1.09)
Stable medium:Cohort 3	1.02(0.94;1.09)	1.03(0.97;1.09)
Stable low:Cohort 3	0.95(0.87;1.03)	1.01(0.95;1.07)
Improving to high:Cohort 3	0.99(0.86;1.14)	1.02(0.92;1.14)
Improving to medium:Cohort 3	0.90(0.79;1.02)	1.14(1.03;1.26)
Declining to medium:Cohort 3	0.99(0.85;1.15)	0.98(0.88;1.11)
Declining to low:Cohort 3	0.96(0.84;1.09)	0.92(0.83;1.02)
Stable medium:Cohort 4	0.98(0.91;1.06)	1.00(0.95;1.06)
Stable low:Cohort 4	0.96(0.88;1.04)	0.98(0.92;1.05)
Improving to high:Cohort 4	0.94(0.79;1.11)	1.05(0.92;1.19)

Improving to medium:Cohort 4	0.93(0.79;1.09)	0.99(0.87;1.12)
Declining to medium:Cohort 4	1.04(0.90;1.20)	0.98(0.88;1.09)
Declining to low:Cohort 4	1.01(0.89;1.16)	0.98(0.89;1.08)

Models adjusted for maternal age, parity, migration background (ethnicity and generation) and household income and. For categorical variables, omitted categories are reference categories.

Supplementary table 6. Sensitivity analysis 4: Additionally adjusting for maternal educational level (N= 2 334 036).

Neighbourhood trajectory	Preterm birth	SGA
Stable medium	1.03(0.99;1.07)	1.02(0.99;1.05)
Stable low	1.11(1.06;1.16)	1.18(1.14;1.22)
Improving to high	0.98(0.90;1.06)	0.97(0.91;1.03)
Improving to medium	1.08(1.01;1.17)	1.03(0.97;1.09)
Declining to medium	1.02(0.96;1.09)	1.02(0.97;1.07)
Declining to low	1.10(1.03;1.18)	1.11(1.05;1.16)
Cohort 2	0.99(0.95;1.04)	0.92(0.89;0.95)
Cohort 3	0.98(0.94;1.02)	0.94(0.91;0.97)
Cohort 4	0.93(0.89;0.97)	0.95(0.92;0.99)
Maternal age (20-34)	1.13(1.08;1.18)	1.11(1.08;1.15)
Maternal age (>35)	1.36(1.30;1.43)	1.32(1.28;1.37)
Multiparous	0.52(0.51;0.52)	0.46(0.45;0.46)
Moroccan	0.74(0.72;0.76)	0.83(0.81;0.85)
Turkish	0.83(0.80;0.86)	0.97(0.95;1.00)
Suriname	1.39(1.35;1.44)	2.29(2.24;2.34)
Antillean	1.27(1.22;1.33)	1.37(1.33;1.42)
Other non-western	0.87(0.85;0.89)	1.23(1.21;1.25)
Other western	0.86(0.84;0.88)	1.01(0.99;1.02)
Migrant first generation	0.89(0.87;0.92)	0.86(0.84;0.88)
Migrant second generation	1.11(1.08;1.13)	1.14(1.12;1.16)
Household income Q2	0.90(0.88;0.92)	0.88(0.87;0.89)
Household income Q3	0.89(0.87;0.91)	0.78(0.77;0.79)
Household income Q4	0.90(0.88;0.91)	0.72(0.71;0.73)
Household income Q5 (highest)	0.90(0.88;0.92)	0.71(0.70;0.73)
Stable medium:Cohort 2	1.03(0.98;1.08)	1.04(1.00;1.08)
Stable low:Cohort 2	1.01(0.95;1.06)	1.00(0.96;1.04)
Improving to high:Cohort 2	1.08(0.97;1.20)	1.04(0.95;1.13)
Improving to medium:Cohort 2	0.97(0.88;1.08)	1.03(0.95;1.12)
Declining to medium:Cohort 2	1.03(0.95;1.12)	1.00(0.93;1.06)
Declining to low:Cohort 2	0.97(0.89;1.05)	0.97(0.91;1.04)
Stable medium:Cohort 3	1.01(0.96;1.07)	0.98(0.95;1.02)
Stable low:Cohort 3	0.99(0.94;1.05)	0.95(0.91;0.99)
Improving to high:Cohort 3	1.03(0.94;1.14)	1.02(0.94;1.09)
Improving to medium:Cohort 3	0.94(0.86;1.02)	1.03(0.97;1.10)
Declining to medium:Cohort 3	1.05(0.94;1.16)	0.95(0.88;1.03)
Declining to low:Cohort 3	0.94(0.86;1.03)	0.88(0.82;0.95)
Stable medium:Cohort 4	1.01(0.97;1.07)	0.97(0.93;1.00)
Stable low:Cohort 4	1.01(0.95;1.06)	0.94(0.90;0.98)
Improving to high:Cohort 4	1.00(0.89;1.12)	1.04(0.95;1.13)
Improving to medium:Cohort 4	0.98(0.88;1.09)	0.94(0.87;1.02)

Declining to medium:Cohort 4	1.00(0.91;1.10)	0.96(0.89;1.04)
Declining to low:Cohort 4	0.97(0.89;1.06)	0.93(0.87;0.99)
Mother's education (medium)	1.27(1.25;1.29)	1.31(1.29;1.32)
Mother's education (low)	1.57(1.53;1.61)	1.70(1.67;1.72)
Mother's education (missing)	1.22(1.20;1.24)	1.28(1.26;1.30)

Models adjusted for maternal age, parity, migration background (ethnicity and generation), household income, and mother's education. For categorical variables, omitted categories are reference categories.

Mother's education categories (percentage of total N): High (33.46%), Medium (38.12%), Low (8.81%), and Missing(19.61%).

Supplementary table 7. Sensitivity analysis 5: Additionally adjusting for maternal comorbidities (pre-existing diabetes and hypertension), and unhealthy life-style factors (smoking, alcohol consumption, drug use) (N= 2 334 036).

Variable	Pretei	rm birth	SG	A
	Model A	Model B	Model A	Model B
Stable medium	1.04(0.99;1.09)	1.04(0.99;1.09)	1.03(0.99;1.06)	1.03(0.99;1.07)
Stable low	1.12(1.07;1.17)	1.12(1.07;1.17)	1.19(1.15;1.23)	1.19(1.15;1.23)
Improving to high	0.98(0.91;1.06)	0.98(0.91;1.06)	0.97(0.92;1.03)	0.97(0.92;1.03)
Improving to medium	1.09(1.02;1.18)	1.09(1.02;1.18)	1.04(0.98;1.10)	1.04(0.98;1.10)
Declining to medium	1.03(0.97;1.10)	1.03(0.97;1.10)	1.03(0.98;1.08)	1.03(0.98;1.08)
Declining to low	1.12(1.05;1.20)	1.12(1.05;1.20)	1.12(1.07;1.18)	1.12(1.06;1.17)
Cohort 2	0.98(0.94;1.03)	0.98(0.94;1.03)	0.91(0.88;0.94)	0.91(0.88;0.94)
Cohort 3	0.97(0.93;1.01)	0.97(0.93;1.01)	0.92(0.89;0.95)	0.92(0.89;0.95)
Cohort 4	0.92(0.88;0.96)	0.92(0.88;0.96)	0.93(0.90;0.96)	0.93(0.90;0.96)
Maternal age (20-34)	1.01(0.96;1.05)	1.01(0.97;1.06)	0.97(0.94;1.00)	0.98(0.95;1.01)
Maternal age (>35)	1.20(1.15;1.26)	1.20(1.15;1.26)	1.15(1.11;1.18)	1.15(1.12;1.19)
Multiparous	0.51(0.51;0.52)	0.51(0.51;0.52)	0.46(0.45;0.46)	0.46(0.45;0.46)
Moroccan	0.81(0.78;0.83)	0.81(0.78;0.83)	0.92(0.90;0.94)	0.93(0.91;0.95)
Turkish	0.91(0.88;0.94)	0.91(0.88;0.94)	1.08(1.06;1.11)	1.09(1.06;1.11)
Suriname	1.46(1.41;1.51)	1.46(1.41;1.51)	2.43(2.37;2.48)	2.44(2.38;2.49)
Antillean	1.32(1.26;1.39)	1.33(1.27;1.39)	1.44(1.39;1.49)	1.45(1.40;1.50)
Other non-western	0.93(0.90;0.95)	0.93(0.91;0.95)	1.33(1.31;1.35)	1.34(1.32;1.37)
Other western	0.90(0.88;0.92)	0.90(0.88;0.92)	1.06(1.04;1.07)	1.06(1.04;1.08)
Migrant first generation	0.94(0.91;0.96)	0.94(0.91;0.96)	0.92(0.90;0.94)	0.92(0.90;0.94)
Migrant second generation	1.06(1.04;1.09)	1.06(1.04;1.09)	1.08(1.06;1.10)	1.08(1.06;1.10)
Household income Q2	0.87(0.85;0.89)	0.87(0.86;0.89)	0.84(0.83;0.86)	0.85(0.84;0.86)
Household income Q3	0.84(0.82;0.85)	0.84(0.82;0.85)	0.73(0.72;0.74)	0.74(0.73;0.75)
Household income Q4	0.81(0.79;0.82)	0.81(0.80;0.83)	0.65(0.64;0.65)	0.65(0.64;0.66)
Household income Q5 (highest)	0.78(0.76;0.79)	0.78(0.76;0.80)	0.60(0.60;0.61)	0.61(0.60;0.62)
Hypertension	2.25(2.08;2.42)	2.25(2.09;2.43)	1.73(1.62;1.84)	1.73(1.63;1.85)
Diabetes	3.00(2.73;3.30)	3.00(2.73;3.30)	3.10(2.75;3.28)	0.42(0.36;0.48)
Stable medium:Cohort 2	1.04(0.98;1.09)	1.04(0.98;1.09)	1.05(1.01;1.09)	1.05(1.01;1.09)
Stable low:Cohort 2	1.02(0.96;1.08)	1.02(0.96;1.08)	1.01(0.97;1.05)	1.01(0.97;1.05)
Improving to high:Cohort 2	1.08(0.97;1.21)	1.08(0.97;1.21)	1.04(0.96;1.14)	1.04(0.96;1.14)
Improving to medium:Cohort 2	0.98(0.89;1.09)	0.98(0.89;1.09)	1.04(0.96;1.13)	1.04(0.96;1.13)
Declining to medium:Cohort 2	1.03(0.94;1.11)	1.03(0.94;1.11)	0.99(0.93;1.06)	1.00(0.93;1.06)
Declining to low:Cohort 2	0.97(0.89;1.05)	0.97(0.89;1.05)	0.98(0.91;1.04)	0.98(0.92;1.04)
Stable medium:Cohort 3	1.03(0.98;1.08)	1.03(0.98;1.08)	1.00(0.96;1.04)	1.00(0.96;1.04)
Stable low:Cohort 3	1.00(0.95;1.06)	1.00(0.95;1.06)	0.96(0.92;1.00)	0.96(0.93;1.01)
Improving to high:Cohort 3	1.04(0.94;1.14)	1.03(0.94;1.14)	1.02(0.95;1.10)	1.02(0.95;1.10)
Improving to medium:Cohort 3	0.94(0.86;1.03)	0.94(0.86;1.03)	1.04(0.97;1.11)	1.04(0.97;1.11)
Declining to medium:Cohort 3	1.05(0.95;1.16)	1.05(0.95;1.16)	0.95(0.88;1.03)	0.95(0.88;1.03)
Declining to low:Cohort 3	0.95(0.87;1.04)	0.95(0.87;1.04)	0.90(0.84;0.96)	0.90(0.84;0.96)

Stable medium:Cohort 4	1.03(0.98;1.08)	1.03(0.98;1.08)	0.98(0.94;1.02)	0.97(0.94;1.01)
Stable low:Cohort 4	1.01(0.96;1.07)	1.01(0.96;1.07)	0.95(0.91;0.99)	0.94(0.90;0.98)
Improving to high:Cohort 4	1.01(0.90;1.13)	1.01(0.89;1.13)	1.05(0.96;1.14)	1.04(0.96;1.14)
Improving to medium:Cohort 4	0.99(0.89;1.10)	0.99(0.89;1.10)	0.95(0.88;1.04)	0.95(0.87;1.03)
Declining to medium:Cohort 4	1.00(0.91;1.10)	1.00(0.91;1.10)	0.97(0.90;1.04)	0.97(0.90;1.04)
Declining to low:Cohort 4	0.98(0.90;1.07)	0.98(0.90;1.07)	0.94(0.88;1.01)	0.94(0.88;1.00)
Drug use		1.71(1.42;2.05)		2.62(2.31;2.97)
Alcohol consumption		1.70(0.90;3.22)		2.90(1.86;4.51)
Smoking		1.24(1.15;1.34)		2.31(2.21;2.43)

Models A adjusted for maternal age, parity, migration background (ethnicity and generation), pre-existent hypertension and diabetes, and household income.

Model B additionally adjusted for smoking, alcohol consumption, drug abuse.

For categorical variables, omitted categories are reference categories.

Supplementary table 8. Sensitivity analysis 6: Restricted the analysis to only spontaneous births (N= 1 757 999).

Variable	Preterm birth	SGA
Stable medium	1.04(0.99;1.09)	1.04(0.99;1.09)
Stable low	1.12(1.07;1.17)	1.21(1.16;1.25)
Improving to high	0.99(0.91;1.07)	0.99(0.93;1.06)
Improving to medium	1.09(1.01;1.17)	1.06(0.99;1.13)
Declining to medium	1.02(0.95;1.09)	1.02(0.96;1.08)
Declining to low	1.12(1.05;1.20)	1.13(1.07;1.20)
Cohort 2	0.98(0.94;1.02)	0.93(0.89;0.96)
Cohort 3	0.97(0.93;1.01)	0.93(0.90;0.97)
Cohort 4	0.92(0.88;0.96)	0.93(0.9;0.97)
Maternal age (20-34)	1.02(0.97;1.07)	0.98(0.94;1.01)
Maternal age (>35)	1.21(1.16;1.27)	1.16(1.11;1.20)
Multiparous	0.52(0.51;0.52)	0.47(0.47;0.48)
Moroccan	0.79(0.76;0.82)	0.98(0.96;1.01)
Turkish	0.89(0.86;0.92)	1.09(1.06;1.12)
Suriname	1.42(1.37;1.47)	2.51(2.45;2.58)
Antillean	1.26(1.20;1.32)	1.46(1.40;1.52)
Other non-western	0.91(0.88;0.93)	1.39(1.36;1.42)
Other western	0.89(0.87;0.91)	1.09(1.07;1.11)
Migrant first generation	0.94(0.91;0.96)	0.92(0.90;0.94)
Migrant second generation	1.07(1.04;1.10)	1.08(1.06;1.10)
Household income Q2	0.87(0.86;0.89)	0.85(0.84;0.87)
Household income Q3	0.84(0.82;0.85)	0.74(0.73;0.75)
Household income Q4	0.81(0.80;0.83)	0.65(0.64;0.66)
Household income Q5 (highest)	0.78(0.76;0.79)	0.61(0.60;0.63)
Stable medium:Cohort 2	1.04(0.99;1.10)	1.03(0.98;1.07)
Stable low:Cohort 2	1.02(0.96;1.08)	0.98(0.94;1.03)
Improving to high:Cohort 2	1.08(0.96;1.20)	1.04(0.94;1.14)
Improving to medium:Cohort 2	0.99(0.89;1.10)	1.03(0.94;1.13)
Declining to medium:Cohort 2	1.04(0.96;1.13)	1.00(0.92;1.07)
Declining to low:Cohort 2	0.97(0.89;1.06)	0.96(0.89;1.04)
Stable medium:Cohort 3	1.03(0.98;1.09)	0.98(0.93;1.02)
Stable low:Cohort 3	1.00(0.94;1.06)	0.93(0.89;0.98)
Improving to high:Cohort 3	1.03(0.93;1.13)	0.99(0.91;1.08)
Improving to medium:Cohort 3	0.95(0.87;1.04)	1.00(0.92;1.08)
Declining to medium:Cohort 3	1.05(0.94;1.16)	0.94(0.85;1.04)
Declining to low:Cohort 3	0.94(0.86;1.03)	0.88(0.81;0.95)
Stable medium:Cohort 4	1.03(0.98;1.09)	0.96(0.92;1.00)
Stable low:Cohort 4	1.01(0.96;1.07)	0.91(0.87;0.96)
Improving to high:Cohort 4	0.99(0.88;1.12)	1.01(0.91;1.12)
Improving to medium:Cohort 4	0.99(0.89;1.11)	0.92(0.83;1.02)

Declining to medium:Cohort 4	1.03(0.93;1.13)	0.98(0.89;1.07)
Declining to low:Cohort 4	0.98(0.89;1.07)	0.92(0.85;0.99)

Odds ratios (95% CI). Models adjusted for maternal age, parity, migration background (ethnicity and generation) and household income. For categorical variables, omitted categories are reference categories.

Supplementary table 9. Sensitivity analysis 7: Excluded observations with implausible birthweight given gestational age values (N= 2 328 351).

Variable	Preterm birth	SGA
Stable medium	1.04(0.99;1.09)	1.03(0.99;1.07)
Stable low	1.12(1.07;1.17)	1.19(1.15;1.23)
Improving to high	0.99(0.91;1.07)	0.98(0.92;1.04)
Improving to medium	1.09(1.01;1.17)	1.04(0.98;1.10)
Declining to medium	1.02(0.95;1.09)	1.03(0.98;1.08)
Declining to low	1.12(1.05;1.20)	1.12(1.06;1.17)
Cohort 2	0.98(0.94;1.02)	0.91(0.88;0.94)
Cohort 3	0.97(0.93;1.01)	0.92(0.89;0.96)
Cohort 4	0.92(0.88;0.96)	0.93(0.90;0.96)
Maternal age (20-34)	1.02(0.97;1.07)	0.97(0.94;1.00)
Maternal age (>35)	1.21(1.16;1.27)	1.14(1.10;1.18)
Multiparous	0.52(0.51;0.52)	0.46(0.45;0.46)
Moroccan	0.79(0.76;0.82)	0.92(0.90;0.94)
Turkish	0.89(0.86;0.92)	1.08(1.05;1.10)
Suriname	1.42(1.37;1.47)	2.42(2.37;2.48)
Antillean	1.26(1.20;1.32)	1.43(1.38;1.48)
Other non-western	0.91(0.88;0.93)	1.33(1.30;1.35)
Other western	0.89(0.87;0.91)	1.06(1.04;1.08)
Migrant first generation	0.94(0.91;0.96)	0.92(0.90;0.94)
Migrant second generation	1.07(1.05;1.10)	1.08(1.07;1.10)
Household income Q2	0.87(0.86;0.89)	0.85(0.83;0.86)
Household income Q3	0.84(0.82;0.85)	0.73(0.72;0.74)
Household income Q4	0.81(0.80;0.83)	0.65(0.64;0.65)
Household income Q5 (highest)	0.78(0.76;0.79)	0.60(0.60;0.61)
Stable medium:Cohort 2	1.04(0.99;1.10)	1.05(1.01;1.09)
Stable low:Cohort 2	1.02(0.96;1.08)	1.01(0.97;1.05)
Improving to high:Cohort 2	1.08(0.96;1.20)	1.04(0.95;1.13)
Improving to medium:Cohort 2	0.99(0.89;1.10)	1.04(0.96;1.13)
Declining to medium:Cohort 2	1.04(0.96;1.13)	0.99(0.93;1.06)
Declining to low:Cohort 2	0.97(0.89;1.06)	0.98(0.92;1.05)
Stable medium:Cohort 3	1.03(0.98;1.09)	1.00(0.96;1.04)
Stable low:Cohort 3	1.00(0.94;1.06)	0.96(0.92;1.00)
Improving to high:Cohort 3	1.03(0.93;1.13)	1.02(0.94;1.09)
Improving to medium:Cohort 3	0.95(0.87;1.04)	1.04(0.98;1.12)
Declining to medium:Cohort 3	1.05(0.94;1.16)	0.96(0.88;1.04)
Declining to low:Cohort 3	0.94(0.86;1.03)	0.89(0.83;0.96)
Stable medium:Cohort 4	1.03(0.98;1.09)	0.98(0.94;1.02)
Stable low:Cohort 4	1.01(0.96;1.07)	0.95(0.91;0.99)
Improving to high:Cohort 4	0.99(0.88;1.12)	1.04(0.95;1.14)
Improving to medium:Cohort 4	0.99(0.89;1.11)	0.95(0.87;1.03)

Declining to medium:Cohort 4	1.03(0.93;1.13)	0.97(0.90;1.05)
Declining to low:Cohort 4	0.98(0.89;1.07)	0.95(0.89;1.01)

Odds ratios (95% CI). Models adjusted for maternal age, parity, migration background (ethnicity and generation) and household income. For categorical variables, omitted categories are reference categories.

Supplementary table 10. Sensitivity analysis 8: Joint regression models for binary outcomes (N= 2 334 036).

Variable	Preterm birth	SGA
Stable medium	1.05(0.99;1.12)	1.04(0.99;1.09)
Stable low	1.10(1.04;1.16)	1.19(1.15;1.23)
Improving to high	1.02(0.94;1.11)	0.99(0.93;1.06)
Improving to medium	1.11(1.02;1.20)	1.04(0.98;1.11)
Declining to medium	1.03(0.96;1.10)	1.03(0.98;1.08)
Declining to low	1.11(1.02;1.20)	1.11(1.06;1.17)
Cohort 2	1.01(0.96;1.06)	0.92(0.88;0.95)
Cohort 3	1.01(0.96;1.06)	0.94(0.90;0.97)
Cohort 4	0.95(0.90;0.99)	0.95(0.92;0.98)
Maternal age (20-34)	0.98(0.93;1.03)	0.96(0.93;0.99)
Maternal age (>35)	1.11(1.05;1.17)	1.09(1.06;1.13)
Multiparous	0.56(0.55;0.57)	0.48(0.47;0.48)
Moroccan	0.82(0.79;0.85)	0.94(0.92;0.97)
Turkish	0.89(0.86;0.93)	1.09(1.07;1.12)
Suriname	1.22(1.18;1.27)	2.34(2.29;2.40)
Antillean	1.21(1.15;1.28)	1.38(1.33;1.43)
Other non-western	0.87(0.85;0.90)	1.34(1.32;1.37)
Other western	0.90(0.88;0.92)	1.08(1.06;1.10)
Migrant first generation	0.94(0.91;0.96)	0.92(0.90;0.94)
Migrant second generation	1.07(1.04;1.10)	1.08(1.06;1.10)
Household income Q2	0.89(0.88;0.91)	0.85(0.84;0.87)
Household income Q3	0.88(0.86;0.90)	0.74(0.73;0.75)
Household income Q4	0.87(0.85;0.89)	0.66(0.65;0.67)
Household income Q5 (highest)	0.85(0.83;0.87)	0.62(0.61;0.63)
Stable medium:Cohort 2	1.00(0.95;1.06)	1.03(0.99;1.07)
Stable low:Cohort 2	1.01(0.95;1.07)	1.00(0.96;1.05)
Improving to high:Cohort 2	1.06(0.94;1.19)	1.03(0.94;1.12)
Improving to medium:Cohort 2	0.97(0.87;1.09)	1.05(0.96;1.14)
Declining to medium:Cohort 2	1.02(0.93;1.12)	0.99(0.92;1.06)
Declining to low:Cohort 2	0.99(0.90;1.09)	0.99(0.92;1.06)
Stable medium:Cohort 3	1.00(0.95;1.06)	0.98(0.94;1.02)
Stable low:Cohort 3	0.98(0.92;1.05)	0.95(0.91;0.99)
Improving to high:Cohort 3	0.99(0.90;1.10)	1.00(0.92;1.08)
Improving to medium:Cohort 3	0.92(0.83;1.01)	1.04(0.97;1.11)
Declining to medium:Cohort 3	1.05(0.94;1.18)	0.95(0.87;1.03)
Declining to low:Cohort 3	0.94(0.85;1.04)	0.88(0.82;0.95)
Stable medium:Cohort 4	1.01(0.95;1.06)	0.96(0.93;1.00)
Stable low:Cohort 4	1.01(0.95;1.07)	0.94(0.90;0.98)

Improving to high:Cohort 4	0.95(0.83;1.08)	1.02(0.93;1.12)
Improving to medium:Cohort 4	0.98(0.87;1.10)	0.94(0.87;1.03)
Declining to medium:Cohort 4	1.00(0.90;1.12)	0.96(0.89;1.04)
Declining to low:Cohort 4	0.98(0.89;1.08)	0.94(0.88;1.00)

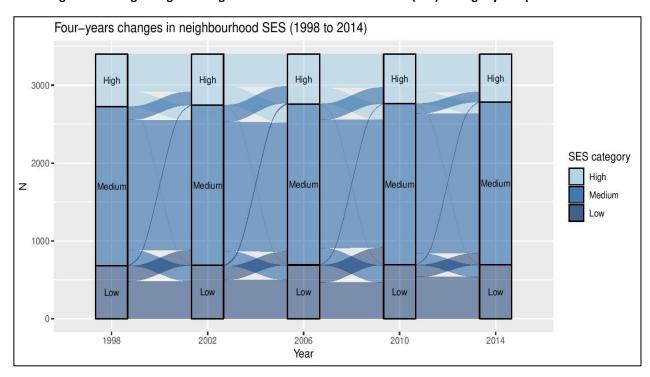
Models adjusted for maternal age, parity, migration background (ethnicity and generation) and household income. For categorical variables, omitted categories are reference categories. Dependence parameter θ (95% CI)= 0.19(0.17-0.21).

Supplementary table 11. Sensitivity analysis 9: Siblings-comparison analysis (N= 2 334 036).

Variable	Preterm birth	SGA
Stable medium	1.07(0.99;1.15)	1.07(0.99;1.20)
Stable low	1.12(1.05;1.20)	1.10(1.04;1.16)
Improving to high	1.07(0.99;1.15)	1.05(0.99;1.12)
Improving to medium	1.11(1.03;1.21)	1.07(0.98;1.16)
Declining to medium	1.09(0.99;1.19)	1.04(0.98;1.10)
Declining to low	1.10(1.02;1.19)	1.06(1.01;1.12)
Cohort 2	0.71(0.69;0.73)	0.59(0.57;0.60)
Cohort 3	0.71(0.51;0.55)	0.36(0.35;0.37)
Cohort 4	0.36(0.34;0.38)	0.22(0.21;0.23)
Maternal age (20-34)	1.06(0.97;1.17)	1.01(0.94;1.09)
Maternal age (>35)	0.98(0.88;1.09)	0.83(0.77;0.90)
Multiparous	0.51(0.51;0.52)	0.47(0.47;0.48)
Household income Q2	0.95(0.87;0.95)	0.95(0.92;0.98)
Household income Q3	1.05(1.00;1.10)	1.09(1.05;1.13)
Household income Q4	1.31(1.25;1.38)	1.35(1.29;1.40)
Household income Q5 (highest)	1.81(1.70;1.92)	1.73(1.65;1.82)
Stable medium:Cohort 2	1.04(0.99;1.10)	1.03(0.98;1.07)
Stable low:Cohort 2	1.02(0.96;1.08)	0.98(0.94;1.03)
Improving to high:Cohort 2	1.08(0.96;1.20)	1.04(0.94;1.14)
Improving to medium:Cohort 2	0.99(0.89;1.1)	1.03(0.94;1.13)
Declining to medium:Cohort 2	1.04(0.96;1.13)	1.00(0.92;1.07)
Declining to low:Cohort 2	0.97(0.89;1.06)	0.96(0.89;1.04)
Stable medium:Cohort 3	1.03(0.98;1.09)	0.98(0.93;1.02)
Stable low:Cohort 3	1.00(0.94;1.06)	0.93(0.89;0.98)
Improving to high:Cohort 3	1.03(0.93;1.13)	0.99(0.91;1.08)
Improving to medium:Cohort 3	0.95(0.87;1.04)	1.00(0.92;1.08)
Declining to medium:Cohort 3	1.05(0.94;1.16)	0.94(0.85;1.04)
Declining to low:Cohort 3	0.94(0.86;1.03)	0.88(0.81;0.95)
Stable medium:Cohort 4	1.03(0.98;1.09)	0.96(0.92;1.00)
Stable low:Cohort 4	1.01(0.96;1.07)	0.91(0.87;0.96)
Improving to high:Cohort 4	0.99(0.88;1.12)	1.01(0.91;1.12)
Improving to medium:Cohort 4	0.99(0.89;1.11)	0.92(0.83;1.02)
Declining to medium:Cohort 4	1.03(0.93;1.13)	0.98(0.89;1.07)
Declining to low:Cohort 4	0.98(0.89;1.07)	0.92(0.85;0.99)

Odds ratios (95% CI). Models adjusted for time-varying covariates: maternal age, parity, and household income. For categorical variables, omitted categories are reference categories. Dependence parameter θ (95% CI)= 0.19(0.17-0.21).

Supplementary figure 1. Alluvial diagram showing changes in neighbourhood socioeconomic status (SES) during 4-years periods in the Netherlands (1998-2014)



Supplementary Figure 2. Changes in the relationship between neighbourhood SES trajectories and birth outcomes across birth periods 1 (2003-2005) and 4 (2014-2017).

