

Appendix Table 4. Additional adjustment for the length of time from pre-pregnancy examination to pregnancy or for the year participated NFPHEP

	Events	Model 1 [‡]		Model 2 [†]	
		IRR(95%CI)	P	IRR(95%CI)	P
Preterm birth					
Group 1 (N=124288)	6562(5.28%)	1.05(1.02-1.08)	0.002	1.06(1.03-1.09)	<0.001
Group 2 (N=405190)	20284(5.01%)	1.00(reference)	...	1.00(reference)	...
Group 3 (N=61389)	3107(5.06%)	1.01(0.96-1.03)	0.072	1.03(0.99-1.07)	0.165
Group 4 (N=12395)	668(5.39%)	1.06(0.98-1.15)	0.059	1.07(0.99-1.15)	0.101
Group 5 (N=5515)	314(5.69%)	1.13(1.04-1.24)	0.009	1.13(1.02-1.26)	0.030
Group 6 (N=19824)	1035(5.22%)	1.04(0.98-1.11)	0.192	1.03(0.97-1.10)	0.299
Group 7 (N=4329)	241(5.57%)	1.09(0.99-1.20)	0.051	1.09(0.97-1.24)	0.104
Group 8 (N=1100)	83(7.55%)	1.44(1.18-1.79)	<0.001	1.45(1.17-1.79)	<0.001
Early preterm birth					
Group 1 (N=124288)	1480(1.19%)	1.08(1.03-1.09)	0.006	1.08(1.02-1.15)	0.015
Group 2 (N=405190)	4488(1.11%)	1.00(reference)	...	1.00(reference)	...
Group 3 (N=61389)	674(1.10%)	0.97(0.91-1.07)	0.429	0.97(0.90-1.07)	0.872
Group 4 (N=12395)	162(1.31%)	1.16(0.98-1.35)	0.056	1.15(0.98-1.35)	0.059
Group 5 (N=5515)	56(1.02%)	0.92(0.72-1.19)	0.331	0.91(0.70-1.19)	0.489
Group 6 (N=19824)	209(1.05%)	0.95(0.83-1.09)	0.498	0.95(0.83-1.09)	0.441
Group 7 (N=4329)	40(0.92%)	0.83(0.60-1.14)	0.425	0.84(0.62-1.14)	0.272
Group 8 (N=1100)	14(1.27%)	1.11(0.65-1.86)	0.464	1.12(0.65-1.89)	0.593
Large for gestational age					
Group 1 (N=124288)	7128(5.74%)	0.83(0.81-0.85)	<0.001	0.83(0.81-0.85)	<0.001
Group 2 (N=405190)	28928(7.14%)	1.00(reference)	...	1.00(reference)	...
Group 3 (N=61389)	5242(8.54%)	1.16(1.13-1.20)	<0.001	1.15(1.12-1.18)	<0.001
Group 4 (N=12395)	1171(9.45%)	1.29(1.22-1.37)	<0.001	1.28(1.21-1.35)	<0.001
Group 5 (N=5515)	368(6.67%)	0.95(0.86-1.05)	0.214	0.97(0.88-1.07)	0.549
Group 6 (N=19824)	1478(7.46%)	1.03(0.98-1.08)	0.244	1.04(0.99-1.09)	0.128
Group 7 (N=4329)	430(9.93%)	1.33(1.23-1.47)	<0.001	1.33(1.22-1.46)	<0.001
Group 8 (N=1100)	156(14.18%)	1.88(1.63-2.18)	<0.001	1.88(1.62-2.17)	<0.001
Severe large for gestational age					
Group 1 (N=124288)	2575(2.07%)	0.84(0.80-0.87)	<0.001	0.85(0.81-0.88)	<0.001
Group 2 (N=405190)	10142(2.50)	1.00(reference)	...	1.00(reference)	...
Group 3 (N=61389)	1834(2.99%)	1.17(1.11-1.23)	<0.001	1.18(1.12-1.24)	<0.001
Group 4 (N=12395)	463(3.74%)	1.46(1.32-1.60)	<0.001	1.48(1.35-1.63)	<0.001
Group 5 (N=5515)	123(2.23%)	0.90(0.76-1.07)	0.099	0.90(0.76-1.08)	0.262
Group 6 (N=19824)	565(2.85%)	1.12(1.03-1.23)	0.020	1.13(1.04-1.22)	0.005
Group 7 (N=4329)	170(3.93%)	1.52(1.30-1.78)	<0.001	1.53(1.32-1.78)	<0.001
Group 8 (N=1100)	64(5.82%)	2.25(1.74-2.88)	<0.001	2.27(1.79-2.88)	<0.001

BMI: body mass index; FSG: fasting serum glucose. Pre-pregnancy status of FSG and BMI are defined as follows: Group 1: Underweight (BMI<18.5) plus normoglycaemia (FSG<6.1mmol/L); Group 2: Normal weight (18.5-24.0) plus normoglycaemia; Group 3: Overweight (27.9≥BMI≥24) plus normoglycaemia; Group 4: Obesity (BMI≥28) plus normoglycaemia; Group 5: Underweight plus IFG (7.0 mmol/L >FSG≥6.1 mmol/L); Group 6: normal weight plus IFG; Group 7: Overweight plus IFG; Group 8: Obesity plus IFG.

[‡] Model 1: risk ratios were adjusted for sociodemographic characteristics of maternal (age, education level, occupation, ethnicity, region and migrant population); for history of pregnancy (first gestation and primipara) and history of adverse pregnancy outcomes (preterm birth, miscarriage, induced abortion, birth defect, and stillbirth); for pre-pregnancy body mass index, active smoking, passive smoking, husband smoking and alcohol consumption status of maternal before pregnancy and active smoking, husband smoking, alcohol drinking status during early stage of pregnancy; infant's sex; and the length of time from pre-pregnancy examination to last menstrual period.

[†] Model 2: risk ratios were adjusted for the year participated NFPHEP in additional to the covariates in Model 1 except for the length of time from pre-pregnancy examination to last menstrual period.