

Supplementary Tables

Supplementary Table 1

	Follow-up Completed	Lost/Deferred	Withdrawn	Deceased	Included in this analysis
Birth Cohort	2868	NA	NA	NA	2616
Year 1	2441	174/204	21	28	1900
Year 3	2280	158/321	79	30	1316
Year 5	2237	135/399	127	30	1644
Year 8	2140	124/376	198	30	1578
Year 10	2047	162/281	348	30	1450
Year 14	1860	207/357	412	32	1305
Year 17	1754	184/414	480	36	1038
Year 20	1473	236/602	519	37	1151

Supplementary table 2 –Eligible cohort recruited at birth vs eligible cohort followed up to age 20 years.

	Original Birth Cohort n = 2616	Eligible Cohort Followed up to Age 20 n = 1151
Infant Characteristics		
Sex (% male)	50% (1308)	51.4% (529)
Gestation (weeks)	39.2 (2.35)	39.4 (2.0) *
Birth weight (g)	3288 (618)	3345 (549) *
Birthweight z-score	-0.05 (0.96)	-0.04 (0.95)
Head Circumference (cm)	34.3 (2.0)	34.5 (1.78) *
Maternal Characteristics		
Maternal Age (years)	29.4 (5.7)	29.4 (5.8)
Maternal BMI (kg/m ²)	22.3 (4.3)	22.1 (3.9)
Smoking in Late Pregnancy (%)	28.7% (750)	22.1% (255)*
Multiple Pregnancies (%)	3.6% (96)	4.2% (48)
Gestational Diabetes (%)	1.9% (50)	1.7% (20)
Hypertensive Pregnancy (%)	21.7% (567)	21.8% (252)

* Differs from Original Birth Cohort $p < 0.05$

Supplementary table 3 – Metabolic measures at earlier ages by pregnancy hypertension and preterm categories

	All Normotensive	All Hypertensive	Term P.I.H	Complicated Hypertension	Term Normotensive	Term PET	Preterm NT	Preterm HTN
14 Years	n = 904	n = 272	n = 221	n = 51	n = 842	n = 17	n = 62	n = 34
Glucose (mmo/L)	4.81 (0.55)	4.79 (0.39)	4.80 (0.40)	4.74 (0.35)	4.80 (0.56)	4.72 (0.32)	4.84 (0.37)	4.74 (0.37)
Insulin (pmol/L)	11.89 (8.71)	12.70 (8.24)*	12.97 (8.90)	11.54 (4.19)	11.92 (8.87)	11.52 (4.77)	11.60 (6.32)	11.50 (3.95)
Total cholesterol (mmol/L)	4.19 (0.71)	4.12 (0.68)	4.10 (0.70)	4.19 (0.55)	4.17 (0.70)	4.14 (0.55)	4.42 (0.75) +	4.21 (0.56)
Triglycerides (mmol/L)	1.00 (0.56)	0.98 (0.44)	0.99 (0.45)	0.95 (0.36)	0.99 (0.57)	1.03 (0.45)	1.02 (0.35)	0.91 (0.31)
HDL – Cholesterol (mmol/L)	1.40 (0.32)	1.37 (0.29)	1.37 (0.30)	1.36 (0.22)	1.41 (0.32)	1.39 (0.27)	1.39 (0.29)	1.34 (0.20)
LDL – Cholesterol (mmol/L)	2.32 (0.62)	2.29 (0.63)	2.27 (0.66)	2.40 (0.51)	2.30 (0.62)	2.28 (0.50)	2.56 (0.62)+	2.45 (0.51)
17 Years	n= 834	n = 260	n = 213	n = 47	n = 782	n = 17	n =52	n = 32
Glucose (mmo/L)	4.74 (0.44)	4.77 (0.53)	4.76 (0.54)	4.78 (0.49)	4.75(0.44)	4.77 (0.33)	4.71 (0.39)	4.79 (0.56)
Insulin (pmol/L)	9.40 (10.82)	9.72 (10.16)	9.87 (10.82)	9.04 (6.48)	9.36 (10.94)	7.54 (5.78)	9.96 (9.01)	9.89 (6.78)
Total cholesterol (mmol/L)	4.12 (0.76)	4.08 (0.80)	4.02 (0.78)	4.38 (0.85)	4.24 (0.81)	4.24 (0.81)	4.26 (0.76)	4.46 (0.87)+
Triglycerides (mmol/L)	1.07 (0.56)	1.93 (0.50)	1.02 (0.50)	1.08 (0.52)	1.07 (0.57)	0.97 (0.36)	1.00 (0.41)	1.13 (0.59)
HDL – Cholesterol (mmol/L)	1.30 (0.29)	1.26 (0.28)	1.25 (0.28)	1.30 (0.25)	1.29 (0.29)	1.31 (0.19)	1.32 (0.28)	1.28 (0.28)
LDL – Cholesterol (mmol/L)	2.33 (0.67)	2.35 (0.67)	2.29 (0.64)	2.59 (0.77)	2.32 (0.67)	2.47 (0.64)	2.47 (0.60)	2.64 (0.83)+

*Significantly different from All Normotensive, + Significantly different from Term Normotensive (All significant values < 0.05)

Supplementary table 4 – Additional birth characteristics by pregnancy hypertension and preterm categories

	Normotensive Pregnancy n = 899	Hypertensive Pregnancy n = 252	PIH n = 206	Complicated Hypertension n =46	Term Normotensive N= 843	Term Preeclamptic N=14	Preterm Normotensive N = 56	Preterm Hypertensive N = 32
C-Section Delivery (%)	19.4% (174)	23.4% (59)	18.9% (39)	43.5% (20)+§	17.8% (150)	26.8% (4)	42.9% (24) +	50.0% (16) +
Antenatal Steroids (%)	1.7% (15)	3.6% (9) *	1.9% (4)	17.4% (8)+§	1.8% (15)	7.1% (1)	16.1% (9) +	25.0% (8) +
APGAR 5 > 7 (%)	98.7% (885)	97.2% (243)	98.5% (201)	91.3% (4)+§	99.3% (830)	100% (14)	89.3% (50) +	87.5% (28) +
Placental Weight (g)	605 (132)	608 (114)	615 (130)	581 (194)	606 (124)	647 (123)	582 (215) +	552 (213) +
Neonatal Hospital Care								
ICU admission	4.1% (37)	5.2% (13)	0.5% (1)	26.1% (12)+§	1.8% (15)	0% (0)	39.3% (22) +	37.5% (12) +
SCBU admission	16.4% (147)	30.6% (77) *	23.3%(48) +	63% (29)+§	12.7% (107)	21.4% (3) +	71.4% (40) +	81.3% (26) +
Ventilation	1.3% (12)	2.4% (6)	0% (0)	13% (6)+§	0.1% (1)	0% (0)	19.6% (11) +	18.8% (6) +
Neonatal Sepsis	6.2 (56)	8.3% (21)	7.8% (16)	10.9% (5)	4.9% (41)	0% (0)	26.8% (15) +	15.6% (5) +
Length of Stay	5.8 (5.9)	6.9 (7.1) *	5.42 (2.2) +	13.76 (14.2)+§	5.02 (2.0)	6.93 (4.1) +	17 (19) +	17 (16) +
Breast Fed at Discharge	90.4% (813)	90.1% (227)	91.3% (188)	84.8% (40)+	90.6 (764)	100% (14)	87.5% (49) +	78.1% (25) +

* Significantly different from All Normotensive, + Significantly different from Term Normotensive, § significantly different from PIH, ^ significantly different from Preterm

NT (All significant values p < 0.05)

Supplementary table 5 – Infant, maternal and cardiovascular risk factors at age 20 years by pregnancy hypertension and preterm categories.

	Term Normotensive N= 843	Term PIH N= 206	Term Preeclamptic N=14	Preterm Normotensive N = 56	Preterm Hypertensive N = 32
Infant Characteristics					
Sex (% male)	50.5% (426)	59.2% (122)	57.1% (8)	37.5% (21)	46.9% (15)
Gestation (weeks)	39.8 (1.2)	39.7 (1.4)	39.0 (1.4)	34.60 (2.7) +	34.75 (2.1) +
Birth weight (g)	3429 (448)	3422 (481)	3405 (438)	2374 (639) +	2331 (630) +
Birthweight z-score	-0.05 (0.9)	-0.03 (1.0)	0.17 (1.0)	0.16 (1.04)	-0.16 (1.02)
Head Circumference (cm)	34.7 (1.5)	34.8 (1.6)	34.6 (1.7)	31.97 (2.85) +	31.98 (2.33) +
Maternal Characteristics					
Maternal Age (years)	29.4 (5.8)	28.99 (5.3)	29.35 (6.30)	29.91 (5.30)	30.03 (5.81)
Maternal BMI (kg/m ²)	21.76 (3.83)	23.07 (4.16) +	22.49 (3.40) +	21.31 (2.58) +	23.37 (3.91) +§
Smoking in Late Pregnancy (%)	23.3% (196)	20.9% (43)	14.3 (2)	20% (11)	9% (3)
Multiple Pregnancies (%)	2.2% (18)	1% (2)	14.2% (2)	28.6% (16) +	31.2 (10) +
Gestational Diabetes (%)	1.5% (13)	2.9% (6)	7.1% (1)	0% (0)	0% (0)
Cardiovascular Risk Factors					
Age 20 years					
BMI	24.2 (4.8)	25.3 (5.5) +	24.1 (5.5)	23.7 (4.5)	25.0 (5.5)
Systolic Blood Pressure	116.4 (12.9)	119.7 (12.6) +	121.2 (15.0) +	114.3 (14.0)	122.0 (13.7) +§
Diastolic Blood Pressure	64.9 (7.9)	66.5 (8.4)	63.6 (9.5)	65.02 (9.6)	66.0 (8.6)
Smokers (%)	15.7% (121)	13.3% (24)	30.8% (4)	15% (9)	11.1% (4)
Metabolic Factors					
	n = 729	n = 185	n = 13	n = 49	n = 24
Glucose (mmo/L)	4.95 (0.41)	4.97 (0.47)	4.90 (0.35)	4.91 (0.33)	5.14 (0.81)
Insulin (pmol/L)	4.64 (5.69)	4.37 (4.00)	3.12 (2.17)	4.46 (5.71)	5.08 (4.87)
Total cholesterol (mmol/L)	4.33 (0.80)	4.20 (0.74)	4.30 (0.79)	4.43 (0.82)	4.39 (0.86)
Triglycerides (mmol/L)	1.09 (0.82)	1.08 (0.59)	1.05 (0.39)	1.35 (0.26)	1.26 (0.33)
HDL – Cholesterol (mmol/L)	1.34 (0.33)	1.29 (0.32)	1.31 (0.32)	1.02 (0.42)	1.17(0.76)
LDL – Cholesterol (mmol/L)	2.49 (0.68)	2.41 (0.62)	2.51 (0.53)	2.61 (0.71)	2.58 (0.63)

+ Significantly different from Term Normotensive, § significantly different from Preterm NT (All significant values < 0.05)