

**Web Table 1. Characteristics of included participants and of the remaining original cohort**

	Included		Remaining cohort		p-value
	N with data	Mean (SD), Median (IQR) or % (N)	N with data	Mean (SD), Median (IQR) or % (N)	
<b>Parental characteristics</b>					
Maternal age (years)	1399	29.2 (4.5)	5227	27.5 (5.0)	<0.001
Paternal age (years)	1049	31.3 (5.4)	2906	30.2 (5.7)	<0.001
Maternal smoking before pregnancy	1388	23.3 (324)	4877	34.8 (1698)	<0.001
Paternal smoking before pregnancy	1146	22.4 (257)	3480	33.0 (1147)	<0.001
Maternal smoking in pregnancy	1327	13.3 (176)	4261	26.1 (1111)	<0.001
Paternal smoking in pregnancy	1114	27.8 (310)	3387	40.0 (1354)	<0.001
No maternal alcohol intake	1386	42.8 (593)	4805	46.2 (2221)	0.02
No paternal alcohol intake	1151	2.7 (31)	3502	5.4 (189)	<0.001
Maternal BMI (kg/m <sup>2</sup> )	1294	22.7 (3.6)	4228	22.9 (3.9)	0.03
Paternal BMI (kg/m <sup>2</sup> )	1081	25.1 (3.3)	2948	25.2 (3.3)	0.16
Manual household social class	1399	13.4 (187)	4088	21.4 (875)	<0.001
<b>Fertility and pregnancy characteristics</b>					
Irregular	1375	20.4 (281)	4541	20.7 (940)	0.83

periods in past year					
Seen doctor for possible infertility	1374	12.5 (172)	4522	11.4 (514)	0.24
>12 months to conception	1052	11.9 (125)	3271	11.6 (380)	0.82
Parity 3+	1364	3.6 (49)	4788	6.5 (309)	<0.001
Gestational weight gain (kg)	1285	12.5 (4.4)	4576	12.3 (4.8)	0.17
Gestational age (weeks)	1399	39.6 (1.6)	5259	39.4 (2.5)	<0.001
Birth weight (g)	1287	3393 (477)	4589	3329 (549)	<0.001
Size for gestational age	1287		4589		0.43
SGA		11.3 (145)		12.1 (553)	
AGA		81.4 (1048)		81.5 (3741)	
LGA		7.3 (94)		6.4 (295)	

\* P-value obtained from comparing logged values.

IQR – interquartile range, AMH – anti-Müllerian hormone, BMI – body mass index, SGA – small for gestational age, AGA – appropriate for gestational age, LGA – large for gestational age

**Web Table 2. Associations of maternal and paternal smoking in pregnancy with offspring AMH at age 15.**

	<b>Maternal</b>		<b>Paternal</b>	
	Ratio of geometric means	p-value	Ratio of geometric means	p-value
<b>Smoking in the first trimester</b> (per smoking category) N=1066				
Model 1	0.99 (0.96, 1.02)	0.58		
Model 2	0.99 (0.96, 1.02)	0.61		
Model 3	0.99 (0.96, 1.02)	0.66		
<b>Smoking in the first trimester</b> (per smoking category) N=1066				
Model 1	1.00 (0.96, 1.05)	1.00	0.97 (0.95, 0.99)	0.01
Model 2	1.00 (0.96, 1.05)	0.99	0.97 (0.95, 0.99)	0.01
Model 3	1.00 (0.96, 1.05)	0.91	0.97 (0.95, 0.99)	0.01
<b>Smoking in the second trimester</b> (per smoking category) N=1066				
Model 1	0.98 (0.94, 1.03)	0.41	0.97 (0.95, 1.00)	0.02
Model 2	0.98 (0.94, 1.03)	0.40	0.97 (0.95, 1.00)	0.02
Model 3	0.98 (0.94, 1.03)	0.49	0.97 (0.95, 1.00)	0.03
<b>Smoking in the third trimester</b> (per smoking category*) N=1066				
Model 1	0.98 (0.91, 1.06)	0.63		
Model 2	0.98 (0.91, 1.06)	0.63		
Model 3	0.98 (0.91, 1.06)	0.68		

Model 1 – Unadjusted

Model 2 – adjusted for maternal age and household social class.

Model 3 - adjusted for maternal age, household social class, gestational age, offspring pubertal stage and BMI.

Model 3 - adjusted for maternal age, household social class, gestational age, offspring pubertal stage, BMI and cotinine.

Smoking categories are 0, 1-4, 5-9, 10-14, 15-19, 20-24, 25-29, and 30+ cigarettes per day.

A ratio of geometric means is interpreted as relative (%) differences with a null value of 1.

\* Smoking categories are 0, 1-9, 10-19, and 20+ cigarettes per day.