Appendix

Association of adult asthma and lung function with maternal smoking in childhood in men and women according to smoking status

	Never smokers		Ex-smokers		Current smokers	
	Paternal smoking	Maternal smoking	Paternal smoking	Maternal smoking	Paternal smoking	Maternal smoking
	OR (95% CI)*	OR (95% CI)*	OR (95% CI)*	OR (95% CI)*	OR (95% CI)*	OR (95% CI)*
Men						
Wheeze	1.21 (0.96 to 1.50)	0.87 (0.68 to 1.10)	0.97 (0.72 to 1.29)	1.24 (0.92 to 1.68)	1.19 (0.98 to 1.44)	1.24 (1.02 to 1.50
>3 asthma symptoms	1.13 (0.87 to 1.47)	0.72 (0.53 to 0.97)	1.07 (0.77 to 1.50)	1.12 (0.79 to 1.58)	1.38 (1.09 to 1.75)	1.37 (1.10 to 1.71
Asthma	1.08 (0.76 to 1.54)	0.81 (0.54 to 1.23)	(small numbers)	(small numbers)	0.69 (0.43 to 1.13)	1.63 (1.00 to 2.64
Chronic bronchitis	1.00 (0.70 to 1.42)	1.07 (0.73 to 1.56)	1.14 (0.71 to 1.85)	0.99 (0.61 to 1.60)	1.35 (1.06 to 1.70)	1.25 (0.98 to 1.55
	β coeff (95% CI)†	β coeff (95% CI)†	β coeff (95% CI)†	β coeff (95% CI)†	β coeff (95% CI)†	β coeff (95% CI)†
FEV_1 (ml)	3 (−38 to 43)	−2 (−49 to 44)	−17 (−80 to 45)	24 (−44 to 91)	−45 (−91 to 2)	−79 (−127 to −31)
FVC (ml)	15 (−32–62)	−10 (−64 to 44)	6 (−64 to 76)	43 (−33 to 119)	−20 (−74 to 34)	−27 (−83 to 28)
FEV_1/FVC ratio (%)	−0.2 (−0.7 to 0.3)	0.1 (−0.4 to 0.7)	−0.3 (−1.0 to 0.4)	−0.3 (−1.1 to 0.4)	−0.4 (−1.0 to 0.1)	−1.1 (−1.7 to −0.5)
BHR (ECRHS slope)	−0.07 (−0.23 to 0.09)	0.19 (0.01 to 0.38)	0.03 (−0.20 to 0.27)	0.21 (−0.05 to 0.47)	0.01 (−0.17 to 0.18)	−0.14 (−0.32 to 0.0
Women						

	Never smokers		Ex-smokers		Current smokers	
	Paternal smoking	**Maternal smoking**	**Paternal smoking**	**Maternal smoking**	**Paternal smoking**	**Maternal smoking**
	OR (95% CI)*	**OR (95% CI)***	**OR (95% CI)***	**OR (95% CI)***	**OR (95% CI)***	**OR (95% CI)***
	OR (95% CI)*	**OR (95% CI)***	**OR (95% CI)***	**OR (95% CI)***	**OR (95% CI)***	**OR (95% CI)***
Wheeze	0.93 (0.76 to 1.13)	1.21 (0.98 to 1.51)	0.72 (0.53 to 0.97)	1.35 (0.98 to 1.85)	1.06 (0.87 to 1.30)	1.06 (0.88 to 1.29)
>3 asthma symptoms	0.89 (0.72 to 1.10)	1.20 (0.95 to 1.52)	0.86 (0.61 to 1.21)	1.27 (0.90 to 1.78)	1.19 (0.94 to 1.50)	1.12 (0.90 to 1.39)
Asthma	0.67 (0.49 to 0.91)	1.10 (0.78 to 1.55)	0.88 (0.53 to 1.48)	1.17 (0.70 to 1.94)	1.22 (0.75 to 1.97)	1.10 (0.73 to 1.66)
Regular cough and phlegm	0.94 (0.70 to 1.25)	1.13 (0.82 to 1.56)	1.08 (0.65 to 1.80)	2.23 (1.38 to 3.60)	1.09 (0.82 to 1.44)	1.13 (0.90 to 1.46)
	β coeff (95% CI)†	**β coeff (95% CI)†**	**β coeff (95% CI)†**	**β coeff (95% CI)†**	**β coeff (95% CI)†**	**β coeff (95% CI)†**
FEV_1 (ml)	16 (−12 to 44)	−25 (−58 to 8)	9 (−33 to 51)	3 (−40 to 46)	−20 (−58 to 17)	−53 (−90 to −17)
FVC (ml)	5 (−27 to 38)	4 (−34 to 41)	29 (−20 to 77)	33 (−17 to 83)	−12 (−55 to 31)	−42 (−84 to 0)
FEV_1/FVC ratio (%)	0.2 (−0.2 to 0.6)	−0.8 (−1.3 to −0.3)	−0.3 (−0.1 to 0.3)	−0.7 (−1.4 to −0.1)	−0.3 (−0.1 to 0.3)	−0.5 (−1.0 to 0.1)
BHR (ECRHS slope)	0.18 (0.01 to 0.35)	0.11 (−0.08 to 0.31)	0.00 (−0.27 to 0.26)	0.10 (−0.16 to 0.37)	−0.19 (−0.41 to 0.03)	−0.22 (−0.43 to 0.0)

*Odds ratios with 95% confidence intervals as estimated by logistic regression adjusting for age, body mass index, number of siblings,

current environmental tobacco smoking, current occupation, and study centre.

†Analysed with adjustment for height, age, weight, weight squared, number of siblings, current environmental tobacco smoking, current

occupation, and study centre.