

APPENDIX A:

Table 1: Path coefficients from path analysis models for lung function at age 10 years

		FEV ₁			FVC			FEV ₁ /FVC			FEF ₂₅₋₇₅		
		Direct	Indirect	Total	Direct	Indirect	Total	Direct	Indirect	Total	Direct	Indirect	Total
Birth weight	Estimate	0.08	0.15	0.22	0.04	0.16	0.20	0.06	-0.04	0.02	0.10	0.07	0.17
	SE	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.01	0.03	0.03	0.01	0.03
	P-value	0.0014	<.0001	<.0001	0.0729	<.0001	<.0001	0.0594	<.0001	0.5181	0.0001	<.0001	<.0001
Maternal smoking during pregnancy	Estimate	-0.003	-0.03	-0.04	-0.01	-0.03	-0.03	0.02	-0.01	0.00	-0.03	-0.03	-0.06
	SE	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.01	0.03	0.03	0.01	0.03
	P-value	0.9054	0.1092	0.2397	0.6959	0.2422	0.2577	0.593	0.0946	0.9214	0.2711	0.0092	0.0471
Sex	Estimate	-0.10	-0.005	-0.11	-0.18	0.01	-0.18	0.19	-0.02	0.16	0.10	-0.01	0.09
	SE	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.01	0.03	0.03	0.01	0.03
	P-value	<.0001	0.8131	0.0003	<.0001	0.8179	<.0001	<.0001	0.0085	<.0001	0.0006	0.1847	0.0044
Gestational age	Estimate		0.09	0.09		0.08	0.08		0.01	0.01		0.07	0.07
	SE		0.02	0.02		0.02	0.02		0.01	0.01		0.02	0.02
	P-value		<.0001	<.0001		<.0001	<.0001		0.477	0.477		<.0001	<.0001
Height at 10 years	Estimate	0.60		0.6	0.62		0.62	-0.06		-0.06	0.30		0.30
	SE	0.03		0.03	0.03		0.03	0.04		0.04	0.03		0.03
	P-value	<.0001		<.0001	<.0001		<.0001	0.2007		0.2007	<.0001		<.0001
Weight at 10 years	Estimate	0.07	0.5115	0.56	0.12	0.53	0.65	-0.14	-0.05	-0.18		0.25	0.25
	SE	0.03	0.92	0.93	0.03	0.93	0.93	0.04	0.10	0.09		0.47	0.47
	P-value	0.0224	1	0.9999	<.0001	0.5713	0.4836	0.0016	0.625	0.052		0.5877	0.5877

Goodness of Fit Criteria:

FEV₁: Chi-squared test statistic=10.0, p-value=0.07; AGFI=0.97; CFI=0.99; RMSEA=0.03

FVC: Chi-squared test statistic=10.1, p-value=0.07; AGFI=0.97; CFI=0.99; RMSEA=0.03

FEV₁/FVC: Chi-squared test statistic=11.0, p-value=0.05; AGFI=0.97; CFI=0.99; RMSEA=0.03

FEF₂₅₋₇₅: Chi-squared test statistic=11.7, p-value=0.16; AGFI=0.98; CFI=0.99; RMSEA=0.01

Table 2: Path coefficients from path analysis models for lung function at age 18 years

		FEV ₁			FVC			FEV ₁ /FVC			FEF ₂₅₋₇₅		
		Direct	Indirect	Total	Direct	Indirect	Total	Direct	Indirect	Total	Direct	Indirect	Total
Birth weight	Estimate	-0.01	0.16	0.15	0.01	0.15	0.16	-0.05	0.00	-0.05	-0.03	0.12	0.09
	SE	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.03	0.03	0.02	0.03
	P-value	0.6301	<.0001	<.0001	0.6557	<.0001	<.0001	0.1510	0.8702	0.1502	0.2754	<.0001	0.0015
Maternal smoking during pregnancy	Estimate	-0.01	-0.03	-0.04	0.03	-0.03	0.01	-0.10	0.00	-0.10	-0.05	-0.04	-0.09
	SE	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.03	0.02	0.02	0.03
	P-value	0.6450	0.0997	0.1169	0.0311	0.1155	0.7062	0.0010	0.8725	0.0035	0.0374	0.0441	0.0023
Sex	Estimate	-0.34	-0.38	-0.71	-0.27	-0.45	-0.72	-0.11	0.21	0.10	-0.37	-0.08	-0.45
	SE	0.03	0.02	0.02	0.03	0.02	0.01	0.05	0.04	0.03	0.04	0.04	0.03
	P-value	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	0.0276	<.0001	0.0029	<.0001	0.0267	<.0001
FEV ₁ or FVC or FEV ₁ /FVC or FEF ₂₅₋₇₅ at age 10	Estimate	0.51		0.51	0.50		0.50	0.54		0.54	0.59		0.59
	SE	0.02		0.02	0.02		0.02	0.03		0.03	0.02		0.02
	P-value	<.0001		<.0001	<.0001		<.0001	<.0001		<.0001	<.0001		<.0001
Gestational age	Estimate		0.04	0.04		0.04	0.04		-0.02	-0.02		0.03	0.03
	SE		0.01	0.01		0.01	0.01		0.02	0.02		0.01	0.01
	P-value		0.0094	0.0094		0.0048	0.0048		0.2619	0.2619		0.0649	0.0649
Height at 10 years	Estimate	-0.27	2.21	1.95	-0.30	2.32	2.03	0.06	-0.32	-0.25	-0.09	1.00	0.90
	SE	0.04	2.28	2.28	0.04	2.40	2.40	0.06	0.43	0.41	0.03	0.99	0.98
	P-value	<.0001	0.3318	0.3934	<.0001	0.3338	0.3988	0.2912	0.4650	0.5370	0.0071	0.3122	0.3576
Height at 18 years	Estimate	0.45		0.45	0.47		0.47	-0.07		-0.07	0.20		0.20
	SE	0.03		0.03	0.03		0.03	0.06		0.06	0.05		0.05
	P-value	<.0001		<.0001	<.0001		<.0001	0.2858		0.2858	<.0001		<.0001
Weight at 10 years	Estimate	-0.01	0.52	0.50	-0.05	0.60	0.55	0.13	-0.27	-0.14		0.25	0.25
	SE	0.03	27893.00	27893.00	0.03	2.90	2.90	0.06	0.12	0.12		1.42	1.42
	P-value	0.6602	1.0000	1.0000	0.1362	0.8356	0.8486	0.0315	0.0261	0.2384		0.8614	0.8614
Weight at 18 years	Estimate	0.04	0.08	0.12	0.11	0.09	0.19	-0.19	-0.01	-0.20		0.04	0.04
	SE	0.03	0.88	0.88	0.03	0.92	0.92	0.05	0.14	0.14		0.38	0.38
	P-value	0.1258	0.9247	0.8880	<.0001	0.9238	0.8340	<.0001	0.9277	0.1554		0.9275	0.9275