

Identified studies on lung function in school-aged children

Study	Year of Publication	Cohort	Study Location	Population evaluated	Years of follow-up	Exposure	Outcome	Potential confounders allowed for	Methodological quality score
Belousova	2011	Childhood Asthma Prevention Study (CAPS)	Australia	418 children, birth	8 years	Maternal smoking during and after pregnancy	FEV ₁ , FVC, FEF ₂₅₋₇₅ , PEF, FOT, R _{RS} , G _{RS} , X _{RS}	Parental education, gender, height, age, breastfed, birth weight, CAPS interventions	6
Brown	2009	Manchester Birth Cohort Study	UK	829 children, birth	5 years	Maternal smoking during and after pregnancy	sRaw	None	4
Dijkstra	1990	Dutch Cohort Study	The Netherlands	331 children, 6-12 years	2 years	Household smoking	FEV ₁	None	6
Dodge	1982	Arizona Children's Study	USA	558 children, 8-10 years	1-2 years	Parental smoking	FEV ₁	None	3
Gilliand	2003	Children's Health Study	USA	5933 children, 7-18 years	8 years	Maternal smoking during and after pregnancy	FEV ₁ , FEF ₂₅₋₇₅	Income, parental education, insurance status, BMI, LBW, early chest illness, hay fever, house water damage, live plants in house, vigorous exercise, respiratory illness, age, height	6

Jedrychowski	2010	Krakov Birth cohort Study	Poland	176 children, birth	5 years	Maternal passive smoking during and after pregnancy	FEV ₁ , FEV _{0.5} , FVC	Age, height, gender, wheeze, birth weight, prenatal PM _{2.5} levels	6
Lebowitz	1982	Tucson Epidemiological Study of Airways Obstructive Diseases	USA	230 children, 4-19 years	First 10 surveys	Parental smoking	FVC, FEV ₁ , V _{msx75%}	Age, sex, height, personal smoking	5
Prabhu	2010	Aberdeen Birth Cohort Study	UK	594 children, birth	5 years	Maternal smoking during pregnancy	FEV ₁ , FVC	Sex, height, maternal height, maternal asthma, plasma α -tocopherol, cholesterol at enrolment	5
Sebastian	2011	Pulmonary Function Cohort Study	USA	355 children, 2 years	5 years	Any smoking (hair cotinine levels)	FEV ₁ , PEF	Income, height, weight, gender, age, chest circumference, parental asthma, race	6
Sherrill	1992	New Zealand Cohort/ Dunedin Multidisciplinary Health and Development Study	New Zealand	634 children, 3 years	12 years	Maternal smoking during pregnancy, parental smoking	FEV ₁ , FEV, FEV ₁ /FVC	Age, personal smoking, height, wheeze	6
Tager	1983	East Boston Cohort Study	USA	1156 children, 5-	6 years	Maternal smoking	FEV ₁	Age, sex, initial height, increase in	5

				9 years				height, personal smoking status	
Wang	1994	Harvard Six Cities Study	USA	8820 children, 6-8 years	Up to 13 years	Parental smoking	FVC, FEV ₁ , FEV ₁ /FVC, FEF ₂₅₋₇₅	Age, height, city of residence, maternal smoking in first 5 years of life	6

FEV Forced Expiratory Volume, FVC Forced Vital Capacity, FEF Forced Expiratory Flow, PEF Peak Expiratory Flow, $V_{msx75\%}$ Flow of Expired Vital Capacity, sRAW Specific Airway Resistance, FOT Forced Oscillation Technique, R_{RS} Mean Resistance, G_{RS} Mean Conductance, X_{RS} Mean Reactance