**List of variables**

Id: subject’s ID

id\_school: School’s ID

no: nitric oxide (NO) levels, expressed in μg/m3

no2: nitrogen dioxide (NO2) levels, expressed in μg/m3

nox: nitric oxides (NOx) levels, expressed in μg/m3

o3: ozone (O3) levels, expressed in μg/m3

ox: total oxidants levels (NO2 and O3) levels, expressed in μg/m3

pm10: PM10 levels, expressed in μg/m3

pm10exh: exhausted PM10 levels, expressed in μg/m3

pm10nonex: non exhausted PM10 levels, expressed in μg/m3

pm25: PM2.5 levels, expressed in μg/m3

pm25exh: exhausted PM2.5 levels, expressed in μg/m3

pm25nonexh: non exhausted PM2.5 levels, expressed in μg/m3

pmcoarse: PM coarse fraction levels, expressed in μg/m3

fvc: FVC expressed in liters

fev1: FEV1 expressed in liters

fef25: FEF25 expressed in liters/second

fef50: FEF50 expressed in liters/second

fef75: FEF75 expressed in liters/second

month: month when the lung function measurement was performed

trunk: trunk length expressed in cm.

ethnic: ethnic group of the subject (1:White European 2: Black African-Caribbean 3: South Asian 4: Asian other 5: Other ethnicity)

observer: field technician who performed the lung function measurements

sex: 0 male; 1 female

age: age expressed in quartiles

temp\_room: indoor room temperature, standardized and expressed as z-value

cotinine: serum cotinine levels, expressed in ng/ml

imd: Index of Multiple Deprivation

nssec: NS-SEC group: 1 Managerial & professional occupations; 2 Intermediate occupations; 3 Routine & manual occupations; 4 Inactive; 5 Unclassified ; 6 missing.

sum\_skf: sum of skinfolds expressed in mm

fmi: Fat Mass Index expressed in kg/m5

pet: having a pet at home