

Supplementary Material

Table S1. Summary of parameters considered for inhalation dose estimation, specifically the concentration of PM both indoor and outdoor in the seven sampled fire station (A); the time of exposure both indoor and outdoor (B) and the Inhalation Rate in males and in females, by age category, unadjusted for body weight (C).

Parameters considered for inhalation dose estimation:								
A. Mean concentration of PM (µg/m³):								
		FS1	FS2	FS3	FS4	FS5	FS6	FS7
Indoors								
	PM ₁₀	16.10	7.90	7.50	11.90	9.30	11.50	9.20
	PM _{2.5}	14.10	6.30	6.40	10.50	7.70	9.20	6.70
Outdoors								
	PM ₁₀	19.00	15.80	27.00	25.00	17.00	23.00	21.60
	PM _{2.5}	4.00	2.30	7.70	6.00	6.00	3.00	2.70
B. Time of exposure:								
Daily time spent in FC (hours/day) ^a	Daily time spent indoors (hours/day) ^b	Daily time spent indoors (min/day)	Daily time spent outdoors (hours/day) ^c	Daily time spent outdoors (min/day)				
12.00	3.60	216	8.40	504				
8.00	2.40	144	5.60	336				
C. Inhalation Rate by Age Group:								
Age (years)	Males		Females					
	Daily Inhalation Rate (m³/day) ^d	Inhalation Rate Min (m³/min)	Daily Inhalation Rate (m³/day) ^e	Inhalation Rate Min (m³/min)				
16 to <21	17.21	1.19 × 10 ⁻²	13.59	9.44 × 10 ⁻³				
21 to <31	18.82	1.31 × 10 ⁻²	14.57	1.01 × 10 ⁻²				
31 to <41	20.29	1.41 × 10 ⁻²	14.98	1.04 × 10 ⁻²				
41 to <51	20.94	1.45 × 10 ⁻²	16.20	1.13 × 10 ⁻²				
51 to <61	20.91	1.45 × 10 ⁻²	16.19	1.12 × 10 ⁻²				
61 to <71	17.94	1.25 × 10 ⁻²	12.99	9.02 × 10 ⁻³				

^a Information retrieved from the questionnaire; ^b Considering a reported permanence of 30%; ^c Considering a reported permanence of 70%; ^d Adapted from Table 6.14 of Exposure Factors Handbook (USEPA, 2011); ^e Adapted from Table 6.15 from Exposure Factor Handbook (USEPA, 2011).