

Table S1. Short-term PM₁₀ exposure and telomere length. Results expressed as regression coefficients (β) and percentage change (PC) in telomere length, with corresponding 95% confidence intervals (95%CI), per 10 $\mu\text{g}/\text{m}^3$ increase in PM₁₀ concentration occurring daily from the day of recruitment (lag 0) up to 30 days before (lag 30).

Daily lags	β	95%CI	PC	95%CI	<i>p</i>
Lag 0	-0.006	(-0.012; -0.001)	-0.51	(-0.98; -0.05)	0.030
Lag 1	-0.002	(-0.008; 0.004)	-0.17	(-0.64; 0.30)	0.474
Lag 2	-0.003	(-0.009; 0.002)	-0.28	(-0.74; 0.18)	0.232
Lag 3	-0.005	(-0.010; 0.001)	-0.38	(-0.84; 0.07)	0.100
Lag 4	-0.009	(-0.014; -0.003)	-0.68	(-1.12; -0.24)	0.002
Lag 5	-0.008	(-0.013; -0.002)	-0.62	(-1.08; -0.17)	0.007
Lag 6	-0.010	(-0.016; -0.004)	-0.79	(-1.27; -0.32)	0.001
Lag 7	-0.008	(-0.014; -0.003)	-0.67	(-1.13; -0.20)	0.005
Lag 8	-0.008	(-0.014; -0.002)	-0.63	(-1.10; -0.16)	0.009
Lag 9	-0.004	(-0.010; 0.002)	-0.30	(-0.77; 0.16)	0.200
Lag 10	-0.006	(-0.012; -0.001)	-0.50	(-0.96; -0.04)	0.034
Lag 11	-0.004	(-0.010; 0.002)	-0.33	(-0.79; 0.13)	0.161
Lag 12	-0.003	(-0.009; 0.003)	-0.25	(-0.71; 0.21)	0.295
Lag 13	0.003	(-0.004; 0.009)	0.21	(-0.30; 0.72)	0.412
Lag 14	0.005	(-0.002; 0.011)	0.39	(-0.13; 0.90)	0.138
Lag 15	0.007	(0.001; 0.014)	0.61	(0.10; 1.12)	0.019
Lag 16	0.005	(-0.001; 0.011)	0.38	(-0.11; 0.86)	0.128
Lag 17	0.004	(-0.002; 0.010)	0.30	(-0.17; 0.77)	0.214
Lag 18	0.004	(-0.002; 0.010)	0.31	(-0.17; 0.79)	0.210
Lag 19	0.001	(-0.005; 0.007)	0.08	(-0.39; 0.54)	0.747
Lag 20	0.005	(-0.001; 0.011)	0.38	(-0.11; 0.86)	0.127
Lag 21	0.007	(0.001; 0.013)	0.54	(0.04; 1.03)	0.035
Lag 22	0.003	(-0.003; 0.009)	0.25	(-0.21; 0.72)	0.289
Lag 23	0.002	(-0.004; 0.008)	0.14	(-0.33; 0.61)	0.552
Lag 24	-0.002	(-0.009; 0.004)	-0.19	(-0.69; 0.30)	0.437
Lag 25	-0.006	(-0.011; 0.000)	-0.43	(-0.87; 0.01)	0.058
Lag 26	-0.004	(-0.010; 0.002)	-0.31	(-0.75; 0.12)	0.160
Lag 27	0.003	(-0.003; 0.009)	0.22	(-0.27; 0.70)	0.382
Lag 28	0.005	(-0.001; 0.011)	0.37	(-0.12; 0.86)	0.135
Lag 29	0.004	(-0.001; 0.010)	0.35	(-0.12; 0.82)	0.142
Lag 30	0.005	(-0.001; 0.011)	0.41	(-0.09; 0.91)	0.105

Table S2. Short-term PM₁₀ exposure and telomere length. Results expressed as regression coefficients (β) and percentage change (PC) in telomere length, with corresponding 95% confidence intervals (95%CI), per 10 $\mu\text{g}/\text{m}^3$ increase in PM₁₀ concentration values obtained by averaging PM₁₀ levels of the day of recruitment with the levels of the day before (lag 0–1) and of each preceding day up to 30 days before (lag 0–30).

Cumulative daily lags	β	95%CI	PC	95%CI	<i>p</i>
Lag 0–1	–0.005	(–0.011; 0.001)	–0.41	(–0.92; 0.11)	0.120
Lag 0–2	–0.005	(–0.012; 0.002)	–0.43	(–0.98; 0.13)	0.130
Lag 0–3	–0.006	(–0.014; 0.001)	–0.51	(–1.09; 0.08)	0.089
Lag 0–4	–0.009	(–0.016; –0.001)	–0.69	(–1.30; –0.08)	0.027
Lag 0–5	–0.011	(–0.019; –0.003)	–0.84	(–1.48; –0.20)	0.010
Lag 0–6	–0.013	(–0.021; –0.004)	–0.99	(–1.66; –0.32)	0.004
Lag 0–7	–0.014	(–0.023; –0.005)	–1.12	(–1.81; –0.42)	0.002
Lag 0–8	–0.016	(–0.025; –0.007)	–1.24	(–1.97; –0.52)	0.001
Lag 0–9	–0.017	(–0.026; –0.007)	–1.29	(–2.05; –0.54)	0.001
Lag 0–10	–0.018	(–0.028; –0.008)	–1.41	(–2.19; –0.64)	0.000
Lag 0–11	–0.019	(–0.030; –0.009)	–1.49	(–2.30; –0.69)	0.000
Lag 0–12	–0.020	(–0.030; –0.009)	–1.53	(–2.36; –0.70)	0.000
Lag 0–13	–0.019	(–0.030; –0.008)	–1.49	(–2.36; –0.63)	0.001
Lag 0–14	–0.018	(–0.030; –0.007)	–1.42	(–2.32; –0.52)	0.002
Lag 0–15	–0.013	(–0.026; –0.001)	–1.04	(–2.00; –0.07)	0.036
Lag 0–16	–0.012	(–0.025; 0.001)	–0.90	(–1.90; 0.10)	0.078
Lag 0–17	–0.011	(–0.024; 0.003)	–0.82	(–1.84; 0.21)	0.117
Lag 0–18	–0.008	(–0.022; 0.005)	–0.66	(–1.73; 0.40)	0.223
Lag 0–19	–0.007	(–0.021; 0.007)	–0.58	(–1.68; 0.52)	0.303
Lag 0–20	–0.005	(–0.020; 0.009)	–0.42	(–1.55; 0.70)	0.458
Lag 0–21	–0.003	(–0.017; 0.012)	–0.20	(–1.34; 0.95)	0.733
Lag 0–22	–0.001	(–0.016; 0.014)	–0.10	(–1.26; 1.06)	0.865
Lag 0–23	0.001	(–0.015; 0.016)	0.04	(–1.12; 1.20)	0.944
Lag 0–24	–0.000	(–0.015; 0.015)	–0.01	(–1.18; 1.16)	0.991
Lag 0–25	–0.002	(–0.017; 0.014)	–0.14	(–1.32; 1.03)	0.812
Lag 0–26	–0.002	(–0.017; 0.014)	–0.12	(–1.31; 1.08)	0.850
Lag 0–27	0.001	(–0.016; 0.017)	0.04	(–1.18; 1.26)	0.950
Lag 0–28	0.002	(–0.014; 0.018)	0.15	(–1.08; 1.38)	0.816
Lag 0–29	0.003	(–0.013; 0.020)	0.25	(–0.99; 1.50)	0.690
Lag 0–30	0.006	(–0.011; 0.022)	0.44	(–0.84; 1.72)	0.498

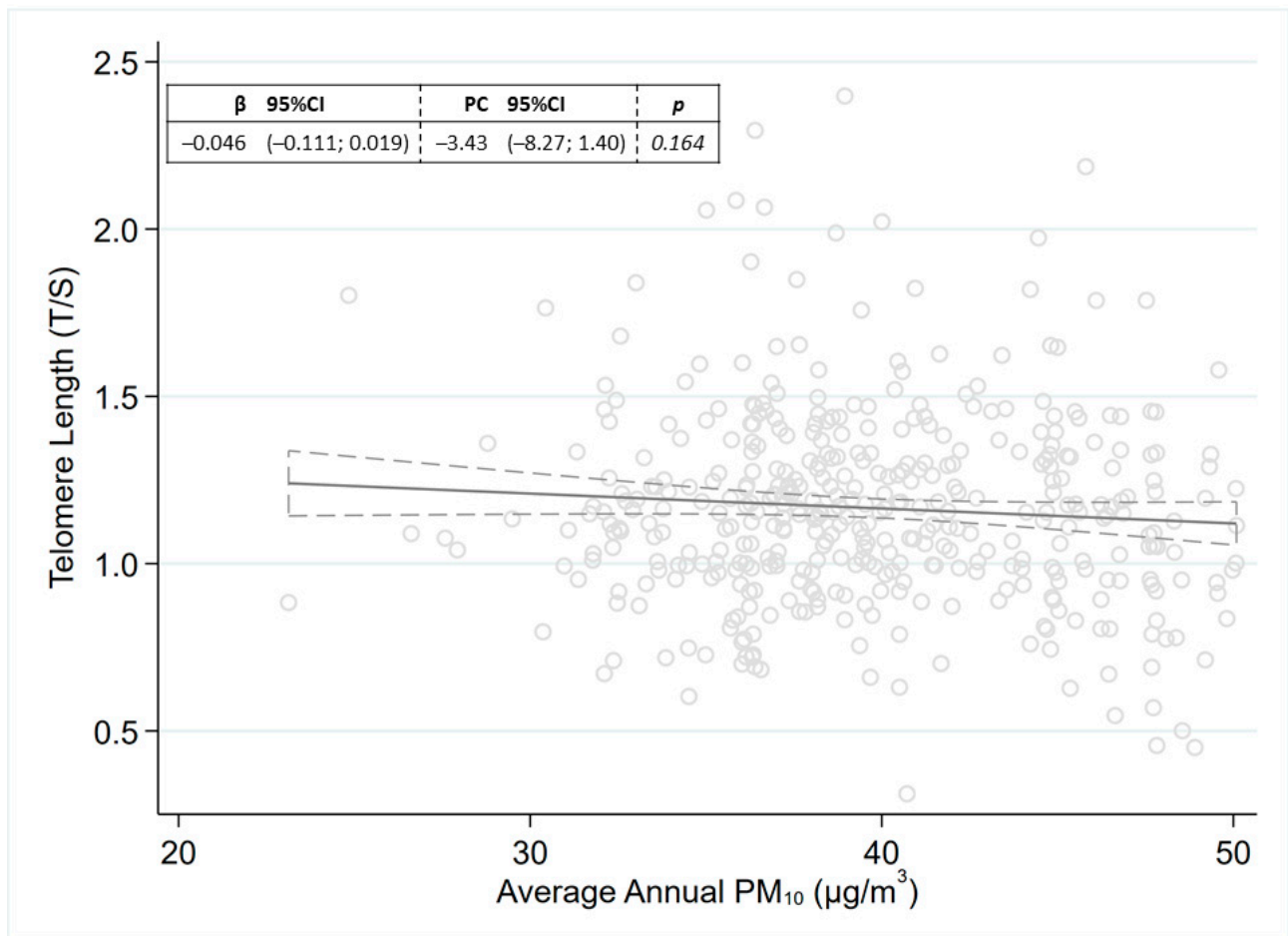


Figure S1. Long-term PM₁₀ exposure and telomere length among subjects with overweight (BMI < 30, number of non-missing observations = 415). Results expressed as regression coefficient (β) and percentage change (PC) in telomere length, with corresponding 95% confidence intervals (95%CI), per 10 $\mu\text{g}/\text{m}^3$ increase in the average of PM₁₀ levels of the 365 days preceding recruitment.

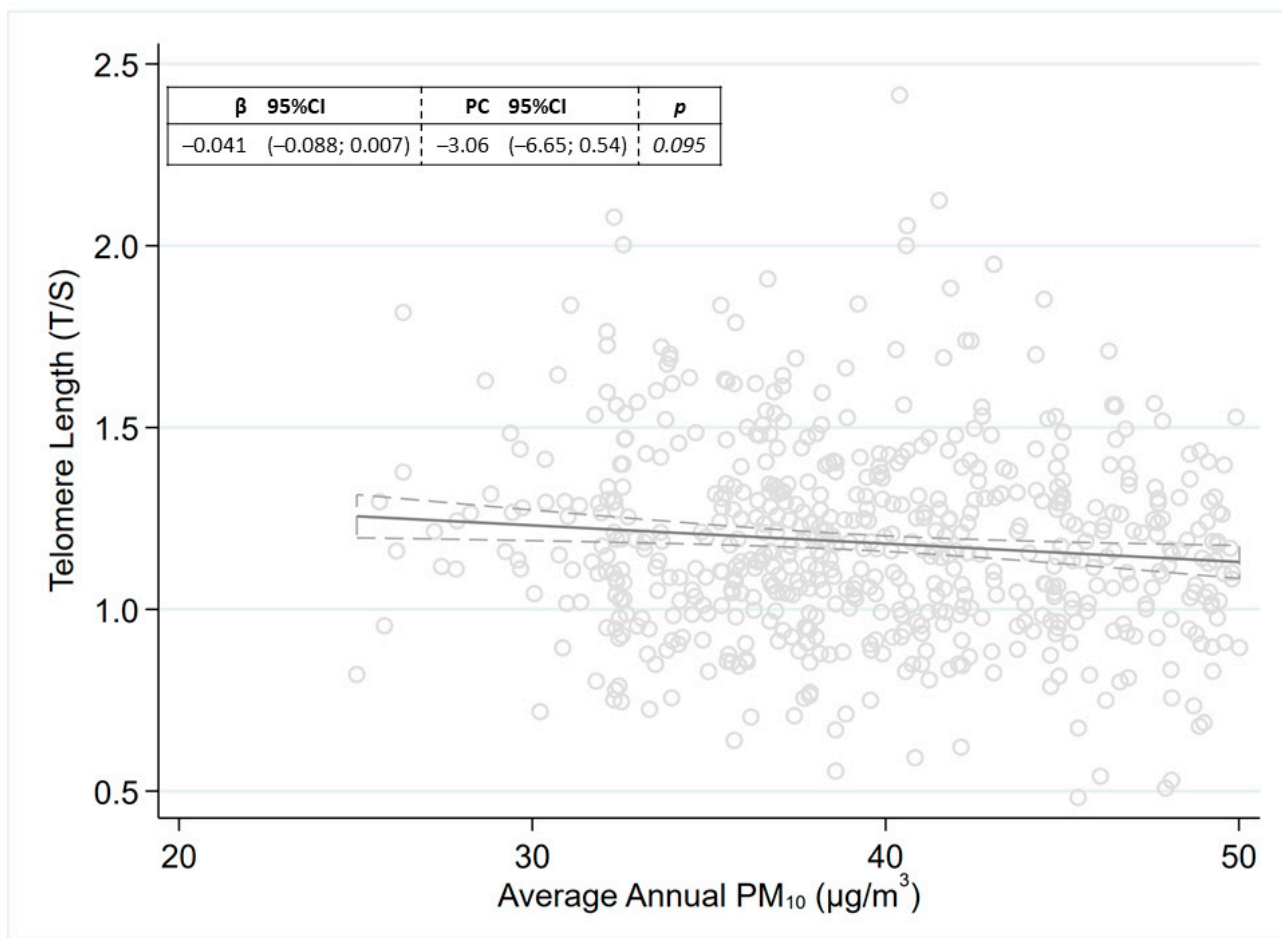


Figure S2. Long-term PM₁₀ exposure and telomere length among subjects with obesity class I (BMI = 30–34.99, number of non-missing observations = 592). Results expressed as regression coefficient (β) and percentage change (PC) in telomere length, with corresponding 95% confidence intervals (95%CI), per 10 $\mu\text{g}/\text{m}^3$ increase in the average of PM₁₀ levels of the 365 days preceding recruitment.

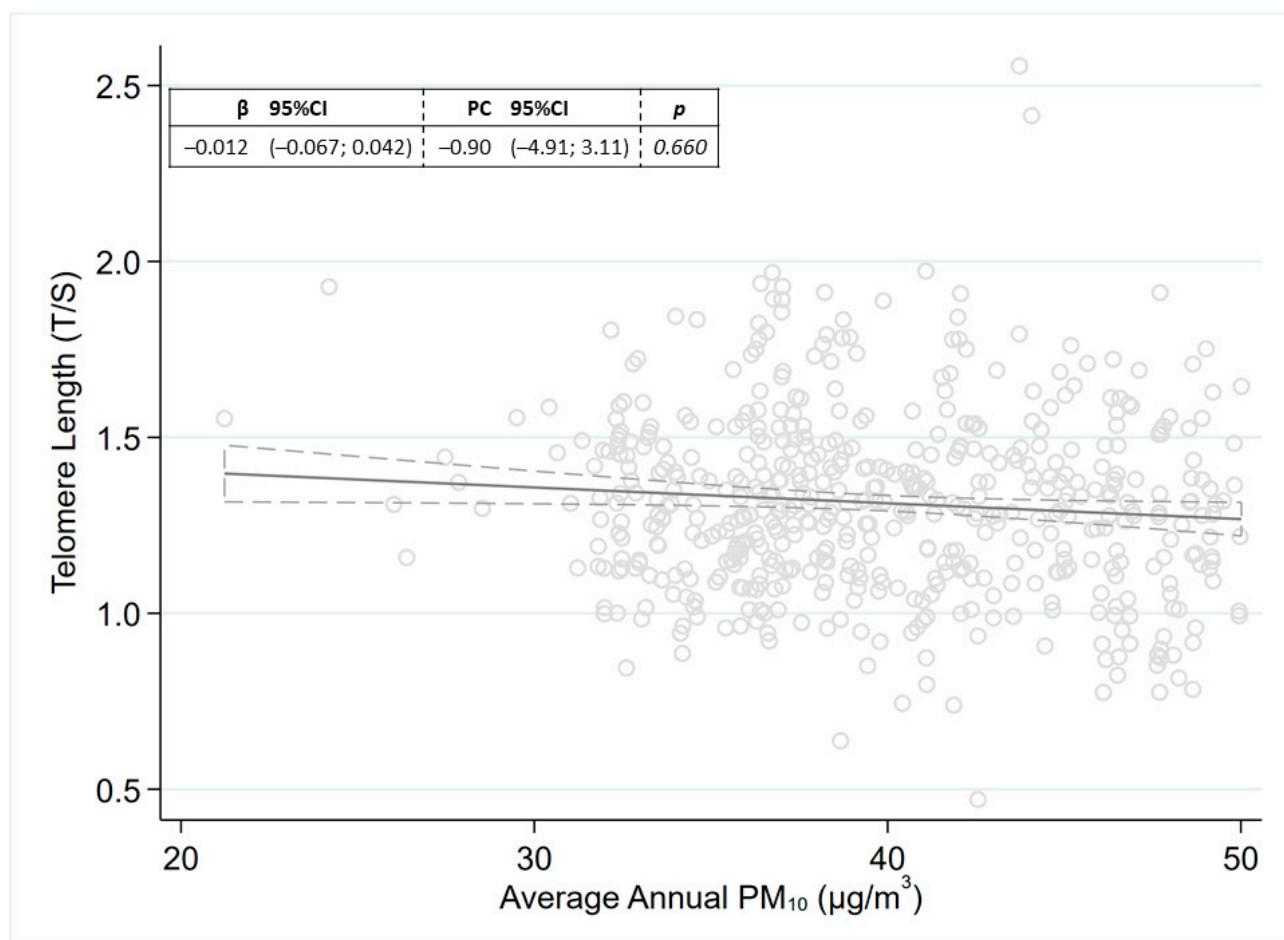


Figure S3. Long-term PM₁₀ exposure and telomere length among subjects with obesity class II and III (BMI ≥ 35 , number of non-missing observations = 525). Results expressed as regression coefficient (β) and percentage change (PC) in telomere length, with corresponding 95% confidence intervals (95%CI), per 10 $\mu\text{g}/\text{m}^3$ increase in the average of PM₁₀ levels of the 365 days preceding recruitment.