Table S1. Adjusted effect estimates of percent change in systolic (SBP) and diastolic (DBP) blood pressure per interquartile range (IQR) change in cumulative exposure to black carbon during the 10 hours and 7 days before SBP and DBP measurements: pollutant model with random intercept using QCDL or CCDL. All models were adjusted for age; sex; BMI; cholesterol; hypertensive (yes, no); cigarette smoker (never, ever); alcohol drinker (yes, no); fasting blood glucose (FBG) level; years of service; graduate of a 4-year degree (yes, no); traffic enforcer's duty post; temperature; relative humidity; and a natural spline for long–term time trend (date, degrees of freedom = 4).

Health Outcome/ Exposure Window	Quadratic Constrained Distributed Lag	Cubic Constrained Distributed Lag
	% Change in Blood Pressure (95% Confidence Interval)	
Systolic Blood Pressure		
10 hours	-0.4 (-1.1, 0.3)	-0.5 (-1.2, 0.3)
7 days	1.2 (0.1, 2.3)	1.1 (-0.2, 2.4)
Diastolic Blood Pressure		
10 hours	-0.6 (-1.4, 0.2)	-0.7 (-1.6, 0.1)
7 days	0.5 (-0.8, 1.7)	0.4 (-1.0, 1.9)

Table S2. Adjusted effect estimates of percent change in systolic (SBP) and diastolic (DBP) blood pressure per interquartile range (IQR) change in cumulative exposure to black carbon during the 10 hours before SBP and DBP measurements, by participant characteristics [sex (male, female), smoking (ever, never), obesity (obese (+): body mass index ≥ 30, obese (-): body mass index < 30), smoking status (ever smoker, never smoker), drinking status (drinker (+): yes, drinker (-): no), and hypertension status (hyper (+): yes, hyper (-): no)].

Parameters/Health Outcome	Modifiers	% Change in Blood Pressure (95% Confidence Interval)
Sex		
Systolic blood pressure	Female	4.0 (2.1, 5.9)
	Male	-0.8 (-1.5, 0.0)
Diastolic blood pressure	Female	0.9 (-1.2, 3.1)
	Male	-0.7 (-1.5, 0.2)
Obesity Status		
Systolic blood pressure	Obese	2.9 (1.0, 4.8)
	Non-obese	-0.8 (-1.5, 0.0)
Diastolic blood pressure	Obese	-0.1 (-2.1, 2.1)

		Non-obese	-0.8 (-1.6, 0.1)
Smoking status			
Systolic pressure	blood	Ever	-0.2 (-1.2, 0.9)
		Never	-1.0 (-1.9, -0.1)
Diastolic pressure	blood	Ever	-0.5 (-1.7, 0.7)
		Never	-1.1 (-2.1, -0.1)
Drinking status			
Systolic pressure	blood	Drinker	-0.5 (-1.3, 0.3)
		Non-drinker	-0.3 (-1.7, 1.1)
Diastolic pressure	blood	Drinker	-0.6 (-1.5, 0.3)
		Non-drinker	-1.1 (-2.6, 0.5)

Table S3. Adjusted effect estimates of percent change in systolic (SBP) and diastolic (DBP) blood pressure per interquartile range (IQR) change in cumulative exposure to black carbon during the 7 days before SBP and DBP measurements, by participant characteristics [sex (male, female), smoking (ever, never), obesity (obese (+): body mass index ≥ 30, obese (-): body mass index < 30), smoking status (ever smoker, never smoker), drinking status (drinker (+): yes, drinker (-): no), and hypertension status (hyper (+): yes, hyper (-): no)].

Parameters	Modifiers	% Change in Blood Pressure (95% Confidence Interval)

Sex			
Systolic blood pressure		Male	0.9 (-0.2, 2.1)
		Female	3.3 (0.4, 6.3)
Diastolic blood pressure		Male	0.4 (-0.9, 1.7)
		Female	1.1 (-2.2, 4.5)
Obesity Status			
Systolic blood pressure		Obese	1.6 (-1.0, 4.3)
		Non-obese	1.1 (-0.1, 2.2)
Diastolic blood pressure		Obese	1.2 (-1.7, 4.3)
		Non-obese	0.2 (-1.1, 1.5)
Smoking status			
Systolic blood pressure		Ever	1.5 (0.0, 3.1)
		Never	1.0 (-0.3, 2.4)
Diastolic blood pressure		Ever	1.1 (-0.6, 2.9)
		Never	0.2 (-1.4, 1.7)
Drinking status			
Systolic blood pressure		Drinker	1.1 (-0.1, 2.4)
		Non-drinker	2.4 (0.5, 4.4)
Diastolic blood pressure		Drinker	0.1 (-1.2, 1.5)
		Non-drinker	2.2 (0.0, 4.5)