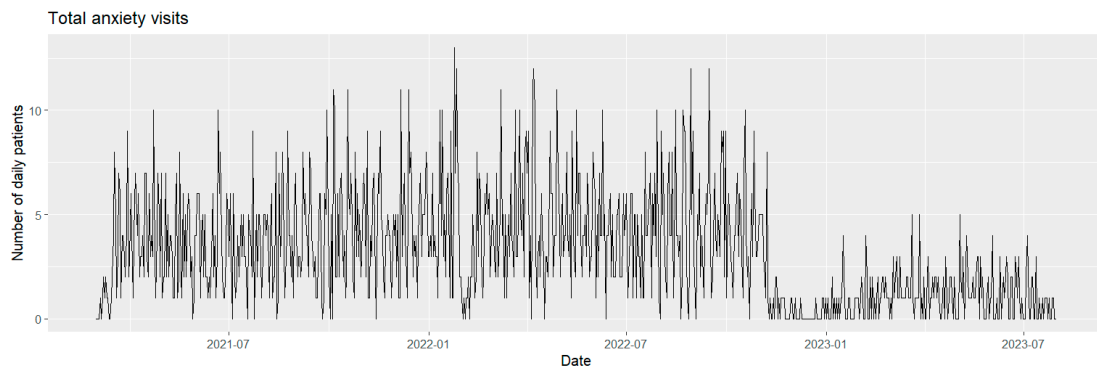
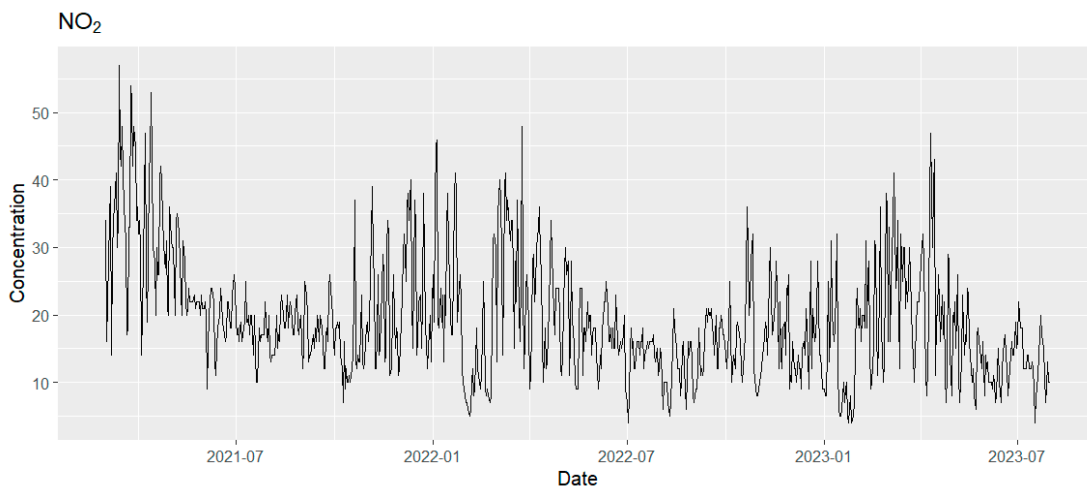
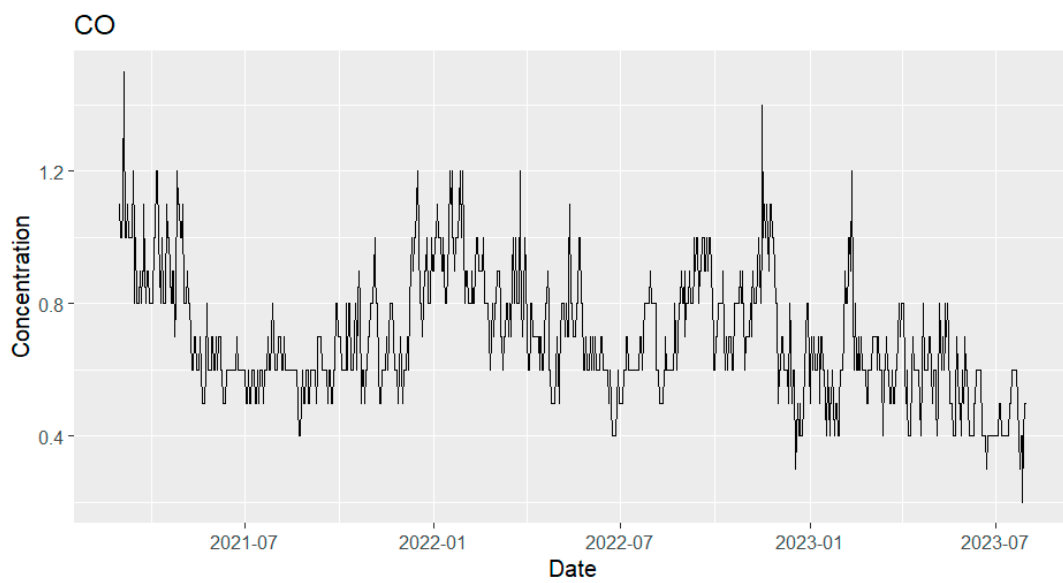


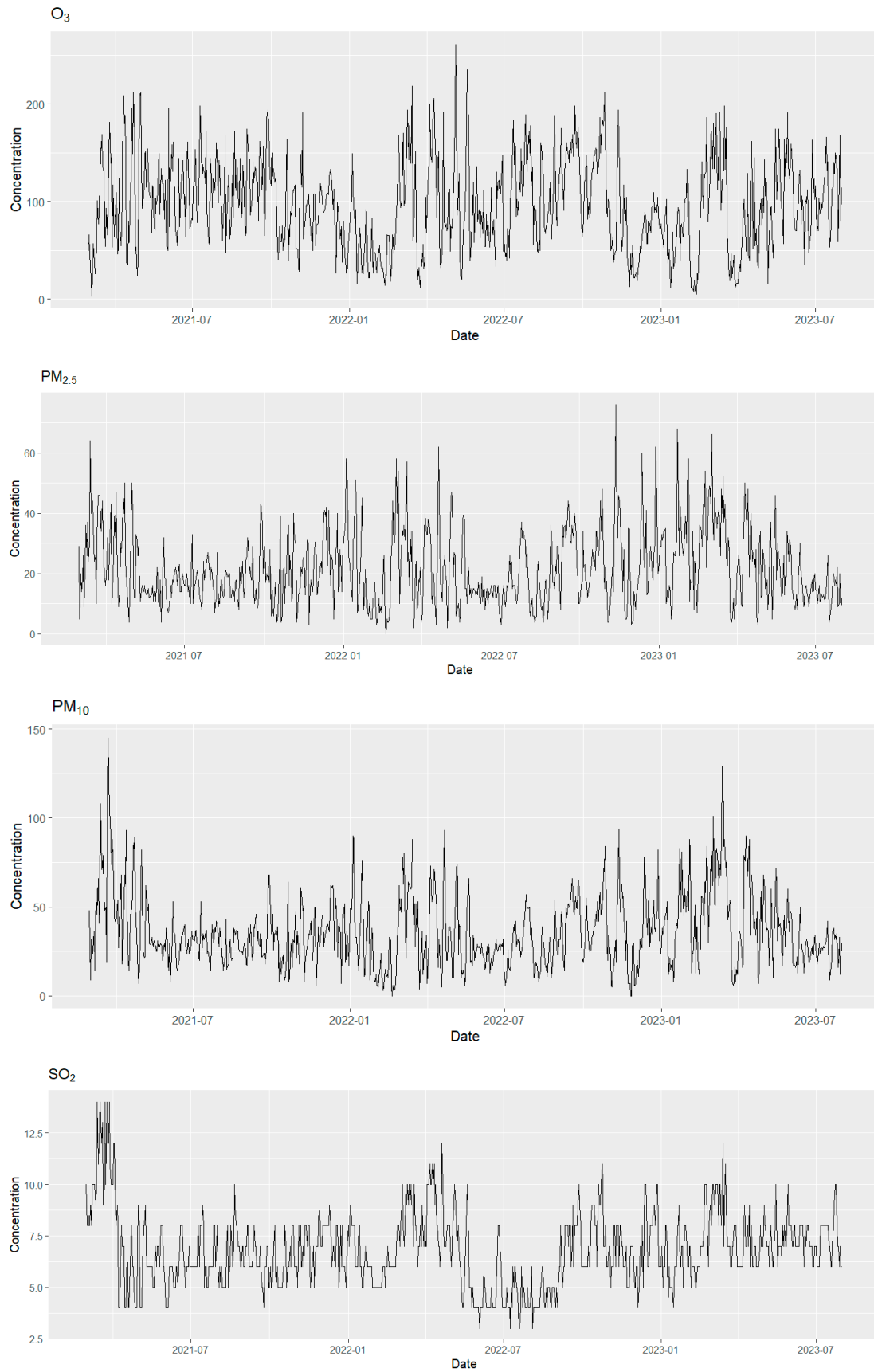
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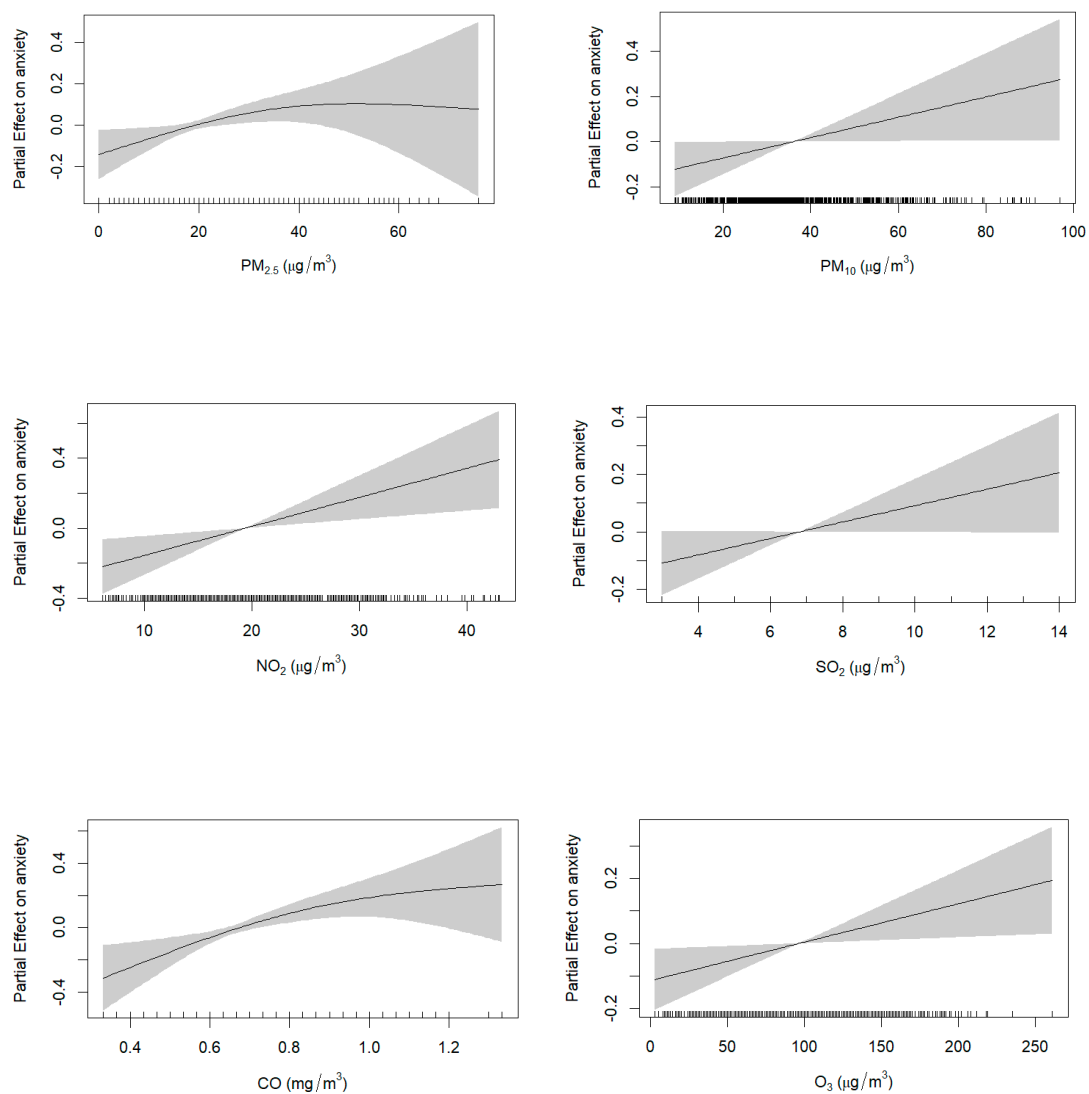


**Figure S1 A time series plot of the number of daily anxiety visits**





**Figure S2 Time series plots of air pollutants during the study period**



**Figure S3** The exposure-response curves of air pollutants with daily visits for anxiety disorders. The lines represent the point estimates and the shadings indicate corresponding 95% CIs.

**Table S1 Spearman's correlations between air pollutants and meteorological factors**

	PM <sub>2.5</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO	O <sub>3</sub>	WIN	TMP	RH	PRS	PRE
PM <sub>2.5</sub>	1.00										
PM <sub>10</sub>	<b>0.95*</b>	1.00									
SO <sub>2</sub>	0.54*	0.60*	1.00								
NO <sub>2</sub>	0.54*	0.57*	0.40*	1.00							
CO	0.29*	0.18*	0.03	0.36*	1.00						
O <sub>3</sub>	0.49*	0.57*	0.36*	0.22*	-0.08*	1.00					
WIN	-0.13*	-0.12*	0.06	-0.18*	0.05	-0.28*	1.00				
TMP	-0.05	0.03	-0.11*	-0.04	-0.33*	0.51*	-0.43*	1.00			
RH	-0.39*	-0.45*	-0.43*	0.04	0.12*	-0.57*	-0.08*	0.00	1.00		
PRS	0.17*	0.11*	0.22*	0.03	0.28*	-0.21*	0.30*	<b>-0.82*</b>	-0.32*	1.00	
PRE	-0.39*	-0.41*	-0.39*	-0.08*	-0.08*	-0.38*	-0.10*	0.19*	<b>0.81*</b>	-0.44*	1.00

\* $P < 0.05$ ; correlation coefficients greater than 0.7 are highlighted in bold;

WIN: wind speed, TMP: temperature, RH: relative humidity, PRS: surface air pressure, PRE: precipitation.

**Table S2 The results (OR with 95% CI) of daily anxiety visits associated with IQR increase in PM<sub>2.5</sub>, PM<sub>10</sub>, CO, SO<sub>2</sub>, NO<sub>2</sub> and O<sub>3</sub> for different lag structures**

Lag days	PM <sub>2.5</sub>	PM <sub>10</sub>	CO	NO <sub>2</sub>	SO <sub>2</sub>	O <sub>3</sub>
0	1.02(0.94, 1.10)	1.04(0.96, 1.12)	<b>1.10(1.03, 1.18) *</b>	1.02(0.94, 1.10)	1.01(0.94, 1.08)	0.98(0.89, 1.08)
1	<b>1.08(1.01, 1.16)</b>	1.06(1.00, 1.14)	<b>1.11(1.04, 1.19) *</b>	1.03(0.96, 1.10)	1.03(0.97, 1.10)	1.03(0.95, 1.11)
2	1.05(0.98, 1.12)	1.05(0.99, 1.12)	<b>1.09(1.02, 1.16)</b>	1.05(0.99, 1.12)	1.04(0.98, 1.11)	1.02(0.95, 1.10)
3	1.04(0.97, 1.10)	1.04(0.98, 1.11)	1.04(0.98, 1.11)	<b>1.09(1.03, 1.16)</b>	1.05(0.99, 1.11)	1.02(0.95, 1.09)
4	1.02(0.96, 1.08)	1.03(0.97, 1.10)	1.00(0.94, 1.07)	<b>1.08(1.01, 1.14)</b>	1.05(0.99, 1.11)	1.00(0.93, 1.06)
5	1.01(0.95, 1.07)	1.02(0.96, 1.08)	0.98(0.92, 1.05)	1.05(0.99, 1.12)	1.03(0.97, 1.09)	0.98(0.92, 1.05)
6	1.01(0.95, 1.07)	1.03(0.97, 1.09)	0.99(0.93, 1.06)	1.04(0.98, 1.10)	1.02(0.96, 1.08)	1.02(0.95, 1.09)
7	1.06(1.00, 1.12)	<b>1.07(1.01, 1.14)</b>	1.06(0.99, 1.13)	1.06(1.00, 1.13)	<b>1.06(1.00, 1.12)</b>	<b>1.08(1.01, 1.15)</b>
01	1.07(0.99, 1.16)	1.07(0.99, 1.16)	<b>1.13(1.05, 1.22) *</b>	1.03(0.95, 1.13)	1.03(0.95, 1.11)	1.01(0.91, 1.12)
02	1.08(0.99, 1.18)	1.08(0.99, 1.18)	<b>1.14(1.05, 1.23) *</b>	1.06(0.97, 1.17)	1.04(0.96, 1.13)	1.03(0.92, 1.14)
03	1.09(0.99, 1.19)	1.09(1.00, 1.19)	<b>1.13(1.04, 1.22) *</b>	<b>1.12(1.01, 1.24)</b>	1.05(0.97, 1.14)	1.03(0.92, 1.15)
04	1.09(0.98, 1.20)	1.09(0.99, 1.20)	<b>1.11(1.02, 1.21)</b>	<b>1.15(1.03, 1.28)</b>	1.06(0.98, 1.15)	1.02(0.92, 1.15)
05	1.08(0.97, 1.20)	1.09(0.99, 1.21)	<b>1.09(1.00, 1.19)</b>	<b>1.16(1.04, 1.30)</b>	1.06(0.98, 1.16)	1.01(0.90, 1.13)
06	1.08(0.97, 1.20)	1.09(0.98, 1.21)	1.08(0.99, 1.19)	<b>1.17(1.04, 1.32)</b>	1.06(0.97, 1.16)	1.02(0.90, 1.15)
07	1.10(0.98, 1.23)	<b>1.12(1.00, 1.25)</b>	1.10(1.00, 1.20)	<b>1.19(1.05, 1.34)</b>	1.07(0.98, 1.17)	1.05(0.93, 1.19)

*P*<0.05 are highlighted in bold. The model covariates include long-term and seasonal trends, temperature, relative humidity, day of week, holiday and COVID-19.

**Table S3 The results (OR with 95% *CI*) of daily anxiety visits associated with IQR increase in PM<sub>2.5</sub>, PM<sub>10</sub>, CO, SO<sub>2</sub>, NO<sub>2</sub> and O<sub>3</sub> stratified by sex.**

	Lag days	PM <sub>2.5</sub>	PM <sub>10</sub>	CO	NO <sub>2</sub>	SO <sub>2</sub>	O <sub>3</sub>
Female	0	1.02(0.94, 1.12)	1.04(0.96, 1.13)	<b>1.15(1.06, 1.24)</b>	1.05(0.96, 1.14)	0.99(0.91, 1.07)	1.01(0.91, 1.13)
	1	<b>1.08(1.00, 1.17)</b>	1.06(0.99, 1.15)	<b>1.15(1.06, 1.24)</b>	1.04(0.96, 1.13)	1.02(0.95, 1.10)	1.02(0.93, 1.11)
	2	1.06(0.98, 1.14)	1.06(0.99, 1.14)	<b>1.11(1.03, 1.20)</b>	1.04(0.96, 1.12)	1.05(0.98, 1.13)	1.01(0.93, 1.09)
	3	1.05(0.97, 1.12)	1.05(0.98, 1.13)	1.05(0.98, 1.14)	1.07(0.99, 1.15)	1.04(0.97, 1.11)	1.01(0.93, 1.09)
	4	1.03(0.96, 1.11)	1.05(0.98, 1.12)	1.01(0.94, 1.10)	<b>1.07(1.00, 1.15)</b>	1.05(0.98, 1.12)	1.00(0.93, 1.08)
	5	1.03(0.96, 1.10)	1.03(0.96, 1.11)	1.02(0.94, 1.10)	1.07(0.99, 1.14)	1.04(0.97, 1.11)	0.97(0.90, 1.05)
	6	1.05(0.97, 1.12)	1.05(0.98, 1.13)	1.00(0.93, 1.08)	1.05(0.98, 1.12)	1.03(0.96, 1.10)	1.03(0.96, 1.11)
	7	<b>1.07(1.00, 1.15)</b>	<b>1.09(1.02, 1.17)</b>	1.05(0.98, 1.14)	1.07(1.00, 1.14)	<b>1.08(1.01, 1.15)</b>	<b>1.11(1.03, 1.19)</b>
	01	1.08(0.98, 1.18)	1.07(0.98, 1.17)	<b>1.18(1.09, 1.29)</b>	1.07(0.96, 1.18)	1.01(0.92, 1.10)	1.02(0.91, 1.15)
	02	1.09(0.99, 1.21)	1.09(0.99, 1.20)	<b>1.19(1.09, 1.30)</b>	1.08(0.97, 1.21)	1.03(0.94, 1.13)	1.02(0.90, 1.15)
	03	1.10(0.99, 1.23)	1.10(0.99, 1.22)	<b>1.17(1.07, 1.29)</b>	1.11(0.99, 1.25)	1.04(0.95, 1.14)	1.02(0.90, 1.16)
	04	1.11(0.99, 1.24)	1.11(1.00, 1.24)	<b>1.15(1.05, 1.27)</b>	<b>1.14(1.01, 1.29)</b>	1.05(0.96, 1.16)	1.02(0.89, 1.16)
	05	1.11(0.98, 1.25)	1.12(0.99, 1.25)	<b>1.14(1.03, 1.27)</b>	<b>1.17(1.02, 1.33)</b>	1.06(0.96, 1.16)	1.00(0.87, 1.14)
	06	1.12(0.99, 1.28)	1.13(1.00, 1.27)	<b>1.13(1.02, 1.26)</b>	<b>1.18(1.03, 1.35)</b>	1.06(0.96, 1.17)	1.01(0.88, 1.16)
	07	<b>1.15(1.01, 1.31)</b>	<b>1.16(1.02, 1.31)</b>	<b>1.14(1.02, 1.27)</b>	<b>1.20(1.04, 1.38)</b>	1.07(0.97, 1.19)	1.06(0.91, 1.22)



Male	0	1.00(0.88, 1.14)	1.03(0.91, 1.18)	0.99(0.88, 1.12)	0.95(0.83, 1.09)	1.07(0.94, 1.21)	0.91(0.78, 1.08)
	1	1.07(0.96, 1.21)	1.07(0.95, 1.19)	1.03(0.92, 1.16)	0.99(0.88, 1.12)	1.05(0.94, 1.17)	1.06(0.92, 1.21)
	2	1.03(0.93, 1.15)	1.03(0.93, 1.15)	1.03(0.92, 1.16)	1.09(0.97, 1.22)	1.02(0.92, 1.13)	1.07(0.95, 1.21)
	3	1.02(0.91, 1.13)	1.02(0.92, 1.14)	1.02(0.91, 1.14)	<b>1.16(1.04, 1.29)</b>	1.07(0.97, 1.19)	1.04(0.92, 1.16)
	4	0.99(0.89, 1.10)	1.00(0.90, 1.11)	0.98(0.87, 1.10)	1.08(0.98, 1.20)	1.06(0.96, 1.17)	0.98(0.88, 1.10)
	5	0.96(0.86, 1.06)	0.99(0.89, 1.10)	0.91(0.82, 1.02)	1.02(0.92, 1.13)	1.01(0.92, 1.12)	1.01(0.90, 1.13)
	6	0.93(0.84, 1.04)	0.96(0.87, 1.07)	0.97(0.87, 1.09)	1.02(0.92, 1.13)	1.00(0.90, 1.10)	0.99(0.89, 1.11)
	7	1.02(0.92, 1.13)	1.03(0.93, 1.13)	1.08(0.96, 1.20)	1.04(0.94, 1.15)	1.02(0.92, 1.12)	1.02(0.91, 1.14)
	01	1.05(0.92, 1.21)	1.07(0.93, 1.22)	1.02(0.89, 1.15)	0.96(0.83, 1.12)	1.07(0.94, 1.22)	0.99(0.83, 1.19)
	02	1.06(0.91, 1.23)	1.07(0.92, 1.24)	1.03(0.90, 1.17)	1.03(0.87, 1.22)	1.06(0.93, 1.22)	1.05(0.87, 1.26)
	03	1.06(0.90, 1.24)	1.07(0.91, 1.25)	1.03(0.89, 1.18)	1.13(0.95, 1.35)	1.08(0.94, 1.24)	1.06(0.88, 1.28)
	04	1.04(0.88, 1.23)	1.05(0.90, 1.24)	1.02(0.88, 1.17)	1.17(0.97, 1.40)	1.09(0.95, 1.26)	1.04(0.86, 1.26)
	05	1.01(0.85, 1.21)	1.04(0.87, 1.24)	0.99(0.85, 1.15)	1.16(0.95, 1.41)	1.08(0.93, 1.25)	1.04(0.85, 1.27)
	06	0.98(0.81, 1.18)	1.01(0.85, 1.22)	0.98(0.84, 1.15)	1.15(0.94, 1.41)	1.07(0.92, 1.24)	1.03(0.84, 1.26)
	07	0.99(0.82, 1.20)	1.03(0.85, 1.24)	1.00(0.85, 1.17)	1.17(0.95, 1.44)	1.07(0.92, 1.25)	1.04(0.84, 1.29)

$P < 0.05$  are highlighted in bold

**Table S4 Comparison of the effects of air pollutants on daily anxiety visits in different gender groups**

Lag days	Male VS Female					
	PM <sub>2.5</sub>	PM <sub>10</sub>	CO	NO <sub>2</sub>	SO <sub>2</sub>	O <sub>3</sub>
0	-0.001(-0.011,0.008)	0.000(-0.006,0.006)	<b>-0.730(-1.436,-0.023)</b>	-0.009(-0.024,0.006)	0.039(-0.035,0.114)	-0.002(-0.005,0.001)
1	-0.001(-0.009,0.008)	0.000(-0.005,0.006)	-0.538(-1.233,0.158)	-0.005(-0.019,0.009)	0.014(-0.052,0.081)	0.001(-0.002,0.003)
2	-0.001(-0.010,0.007)	-0.001(-0.006,0.004)	-0.378(-1.064,0.308)	0.005(-0.008,0.017)	-0.014(-0.077,0.048)	0.001(-0.001,0.003)
3	-0.002(-0.010,0.006)	-0.001(-0.006,0.004)	-0.181(-0.866,0.503)	0.008(-0.004,0.020)	0.016(-0.045,0.076)	0.000(-0.002,0.003)
4	-0.003(-0.011,0.005)	-0.002(-0.007,0.003)	-0.174(-0.858,0.511)	0.001(-0.011,0.013)	0.005(-0.055,0.065)	0.000(-0.002,0.002)
5	-0.005(-0.013,0.003)	-0.002(-0.007,0.003)	-0.537(-1.220,0.147)	-0.004(-0.016,0.008)	-0.013(-0.072,0.047)	0.001(-0.001,0.003)
6	-0.007(-0.015,0.001)	-0.004(-0.008,0.001)	-0.172(-0.853,0.510)	-0.002(-0.014,0.009)	-0.017(-0.076,0.042)	-0.001(-0.003,0.001)
7	-0.003(-0.011,0.005)	-0.002(-0.007,0.002)	0.115(-0.558,0.789)	-0.003(-0.014,0.009)	-0.028(-0.087,0.032)	-0.001(-0.003,0.001)
01	-0.001(-0.012,0.009)	0.000(-0.007,0.006)	-0.756(-1.520,0.008)	-0.010(-0.027,0.008)	0.032(-0.047,0.111)	0.000(-0.004,0.003)
02	-0.002(-0.013,0.009)	-0.001(-0.008,0.006)	-0.736(-1.540,0.067)	-0.004(-0.023,0.015)	0.015(-0.067,0.096)	0.000(-0.003,0.004)
03	-0.003(-0.015,0.009)	-0.001(-0.009,0.006)	-0.672(-1.509,0.164)	0.002(-0.018,0.022)	0.019(-0.064,0.102)	0.001(-0.003,0.004)
04	-0.004(-0.016,0.009)	-0.002(-0.010,0.006)	-0.642(-1.513,0.229)	0.002(-0.019,0.023)	0.018(-0.067,0.103)	0.000(-0.003,0.004)
05	-0.006(-0.019,0.008)	-0.003(-0.011,0.005)	-0.735(-1.639,0.169)	-0.001(-0.023,0.022)	0.011(-0.076,0.098)	0.001(-0.003,0.004)
06	-0.009(-0.023,0.005)	-0.004(-0.013,0.004)	-0.722(-1.657,0.213)	-0.002(-0.025,0.021)	0.004(-0.085,0.093)	0.000(-0.004,0.004)
07	-0.009(-0.024,0.005)	-0.005(-0.014,0.004)	-0.654(-1.619,0.310)	-0.002(-0.026,0.022)	-0.001(-0.093,0.090)	0.000(-0.004,0.004)

$P < 0.05$  are highlighted in bold, indicating statistical significance in the differences.

**Table S5 The results (OR with 95% CI) of daily anxiety visits associated with IQR increase in PM<sub>2.5</sub>, PM<sub>10</sub>, CO, SO<sub>2</sub>, NO<sub>2</sub> and O<sub>3</sub> stratified by age**

Age	Lag days	PM <sub>2.5</sub>	PM <sub>10</sub>	CO	SO <sub>2</sub>	NO <sub>2</sub>	O <sub>3</sub>
<45	0	1.07(0.94, 1.23)	1.10(0.97, 1.26)	0.99(0.88, 1.12)	1.00(0.88, 1.14)	1.01(0.88, 1.16)	1.03(0.87, 1.21)
	1	1.04(0.92, 1.17)	1.04(0.92, 1.17)	0.99(0.87, 1.12)	1.03(0.92, 1.16)	0.97(0.85, 1.11)	1.09(0.95, 1.25)
	2	1.02(0.91, 1.14)	1.01(0.90, 1.13)	1.04(0.93, 1.18)	0.99(0.89, 1.10)	1.06(0.95, 1.20)	1.03(0.90, 1.16)
	3	1.05(0.94, 1.17)	1.03(0.93, 1.15)	1.02(0.90, 1.15)	1.04(0.94, 1.15)	1.12(1.00, 1.25)	1.05(0.93, 1.18)
	4	1.05(0.94, 1.17)	1.04(0.93, 1.16)	1.02(0.91, 1.15)	1.05(0.95, 1.16)	1.10(0.99, 1.23)	1.02(0.91, 1.15)
	5	1.02(0.92, 1.14)	1.01(0.91, 1.13)	0.98(0.87, 1.11)	1.00(0.90, 1.10)	1.05(0.94, 1.18)	0.97(0.86, 1.09)
	6	0.99(0.89, 1.11)	0.99(0.89, 1.10)	1.04(0.93, 1.17)	0.97(0.87, 1.07)	0.98(0.88, 1.10)	1.04(0.93, 1.17)
	7	1.06(0.95, 1.18)	1.05(0.95, 1.17)	<b>1.14(1.01, 1.28)</b>	1.01(0.91, 1.12)	1.02(0.92, 1.14)	1.11(0.99, 1.25)
	01	1.07(0.93, 1.24)	1.09(0.95, 1.25)	0.99(0.86, 1.13)	1.02(0.90, 1.17)	0.99(0.84, 1.16)	1.09(0.91, 1.31)
	02	1.06(0.91, 1.24)	1.07(0.92, 1.24)	1.01(0.88, 1.16)	1.01(0.88, 1.16)	1.03(0.87, 1.23)	1.08(0.90, 1.31)
	03	1.08(0.91, 1.27)	1.07(0.92, 1.26)	1.01(0.88, 1.18)	1.03(0.89, 1.18)	1.10(0.92, 1.33)	1.10(0.91, 1.34)
	04	1.09(0.92, 1.30)	1.08(0.91, 1.28)	1.02(0.88, 1.19)	1.04(0.90, 1.20)	1.15(0.95, 1.40)	1.10(0.90, 1.34)
	05	1.10(0.91, 1.32)	1.08(0.91, 1.30)	1.01(0.86, 1.19)	1.03(0.89, 1.20)	1.18(0.96, 1.45)	1.07(0.87, 1.31)
	06	1.09(0.89, 1.32)	1.07(0.88, 1.29)	1.02(0.87, 1.20)	1.02(0.87, 1.19)	1.14(0.92, 1.42)	1.08(0.87, 1.34)
	07	1.11(0.91, 1.37)	1.09(0.90, 1.32)	1.06(0.89, 1.25)	1.02(0.87, 1.19)	1.15(0.92, 1.44)	1.13(0.91, 1.42)

45-64	0	0.95(0.85, 1.06)	0.96(0.86, 1.07)	<b>1.16(1.05, 1.27)</b>	0.99(0.89, 1.10)	1.01(0.91, 1.13)	0.95(0.83, 1.08)
	1	1.10(1.00, 1.21)	1.08(0.99, 1.19)	<b>1.20(1.09, 1.32)</b>	1.04(0.95, 1.14)	1.09(0.98, 1.20)	0.98(0.88, 1.09)
	2	<b>1.10(1.01, 1.20)</b>	<b>1.12(1.03, 1.22)</b>	<b>1.10(1.00, 1.21)</b>	<b>1.09(1.00, 1.19)</b>	<b>1.10(1.00, 1.20)</b>	1.06(0.96, 1.17)
	3	1.05(0.96, 1.15)	1.08(0.99, 1.17)	1.06(0.96, 1.16)	1.06(0.97, 1.15)	<b>1.10(1.01, 1.20)</b>	1.02(0.92, 1.12)
	4	1.04(0.96, 1.14)	1.08(0.99, 1.17)	0.99(0.90, 1.08)	<b>1.09(1.00, 1.18)</b>	<b>1.10(1.01, 1.20)</b>	1.03(0.94, 1.13)
	5	1.01(0.92, 1.10)	1.03(0.95, 1.12)	0.98(0.89, 1.07)	1.07(0.99, 1.16)	1.06(0.97, 1.15)	0.98(0.89, 1.07)
	6	1.02(0.94, 1.11)	1.05(0.97, 1.14)	0.96(0.87, 1.06)	1.06(0.98, 1.15)	1.07(0.98, 1.16)	1.00(0.91, 1.10)
	7	1.05(0.97, 1.15)	<b>1.08(1.00, 1.17)</b>	1.02(0.93, 1.12)	1.07(0.99, 1.16)	1.08(1.00, 1.18)	1.08(0.98, 1.18)
	01	1.04(0.93, 1.17)	1.04(0.93, 1.16)	<b>1.22(1.10, 1.35)</b>	1.03(0.92, 1.14)	1.07(0.95, 1.22)	0.95(0.82, 1.10)
	02	1.09(0.97, 1.24)	1.10(0.98, 1.24)	<b>1.21(1.08, 1.35)</b>	1.07(0.95, 1.19)	1.13(0.99, 1.30)	1.00(0.86, 1.17)
	03	1.11(0.97, 1.26)	1.13(0.99, 1.28)	<b>1.19(1.06, 1.34)</b>	1.08(0.96, 1.21)	<b>1.18(1.02, 1.37)</b>	1.01(0.87, 1.19)
	04	1.12(0.97, 1.29)	<b>1.15(1.01, 1.32)</b>	<b>1.16(1.03, 1.31)</b>	1.10(0.98, 1.24)	<b>1.23(1.05, 1.43)</b>	1.03(0.88, 1.21)
	05	1.11(0.95, 1.28)	1.15(0.99, 1.33)	<b>1.13(1.00, 1.29)</b>	1.11(0.98, 1.25)	<b>1.24(1.05, 1.45)</b>	1.01(0.86, 1.19)
	06	1.11(0.95, 1.29)	1.16(1.00, 1.35)	1.11(0.98, 1.27)	1.12(0.99, 1.26)	<b>1.26(1.06, 1.49)</b>	1.01(0.85, 1.20)
	07	1.12(0.96, 1.32)	<b>1.18(1.02, 1.38)</b>	1.11(0.97, 1.27)	1.13(0.99, 1.27)	<b>1.28(1.08, 1.52)</b>	1.04(0.88, 1.24)
≥65	0	1.10(0.94, 1.27)	1.12(0.97, 1.30)	1.13(0.99, 1.30)	1.06(0.91, 1.22)	1.06(0.91, 1.23)	1.01(0.83, 1.22)
	1	1.11(0.97, 1.27)	1.06(0.93, 1.21)	1.11(0.97, 1.27)	1.01(0.88, 1.15)	0.98(0.85, 1.13)	1.07(0.91, 1.25)
	2	0.98(0.86, 1.12)	0.96(0.85, 1.09)	1.12(0.98, 1.28)	1.01(0.90, 1.15)	0.95(0.83, 1.08)	0.95(0.82, 1.10)

3	0.99(0.87, 1.13)	0.99(0.87, 1.11)	1.05(0.91, 1.20)	1.04(0.93, 1.18)	1.05(0.93, 1.18)	0.96(0.84, 1.11)
4	0.91(0.80, 1.04)	0.92(0.81, 1.05)	1.01(0.88, 1.16)	0.97(0.86, 1.09)	0.99(0.88, 1.13)	0.88(0.77, 1.01)
5	0.98(0.87, 1.12)	1.00(0.89, 1.13)	1.00(0.88, 1.15)	0.98(0.87, 1.10)	1.04(0.92, 1.17)	1.02(0.89, 1.16)
6	1.01(0.89, 1.14)	1.02(0.91, 1.15)	1.01(0.88, 1.15)	0.99(0.88, 1.12)	1.05(0.93, 1.18)	1.02(0.89, 1.16)
7	1.06(0.94, 1.20)	1.08(0.96, 1.21)	1.04(0.91, 1.19)	1.11(0.99, 1.25)	1.06(0.94, 1.19)	1.03(0.90, 1.18)
01	1.14(0.97, 1.34)	1.12(0.95, 1.31)	1.15(0.99, 1.33)	1.04(0.89, 1.21)	1.02(0.86, 1.21)	1.06(0.86, 1.31)
02	1.09(0.91, 1.30)	1.06(0.89, 1.26)	1.16(0.99, 1.36)	1.03(0.88, 1.21)	0.97(0.80, 1.18)	1.01(0.81, 1.25)
03	1.07(0.89, 1.29)	1.04(0.87, 1.25)	1.15(0.98, 1.36)	1.04(0.89, 1.23)	1.00(0.82, 1.23)	0.98(0.78, 1.23)
04	1.01(0.83, 1.24)	0.99(0.82, 1.20)	1.13(0.95, 1.35)	1.02(0.87, 1.21)	1.00(0.81, 1.23)	0.91(0.73, 1.15)
05	1.00(0.81, 1.24)	0.99(0.80, 1.21)	1.12(0.94, 1.34)	1.01(0.85, 1.20)	1.01(0.81, 1.27)	0.93(0.73, 1.18)
06	1.00(0.80, 1.25)	0.99(0.80, 1.23)	1.11(0.93, 1.34)	1.00(0.84, 1.20)	1.03(0.82, 1.30)	0.94(0.73, 1.20)
07	1.03(0.82, 1.29)	1.02(0.82, 1.27)	1.12(0.92, 1.36)	1.03(0.86, 1.24)	1.06(0.83, 1.34)	0.96(0.74, 1.23)

$P < 0.05$  are highlighted in bold, indicating statistical significance in the differences.

**Table S6 Comparison of the effects of air pollutants on daily anxiety visits between young-aged group and middle-aged group**

Lag days	<45 VS 45-64					
	PM <sub>2.5</sub>	PM <sub>10</sub>	CO	NO <sub>2</sub>	SO <sub>2</sub>	O <sub>3</sub>
0	0.008(-0.003,0.018)	0.008(-0.003,0.018)	-0.775(-1.555,0.006)	0.000(-0.017,0.017)	-0.775(-1.555,0.006)	0.001(-0.002,0.005)
1	-0.004(-0.013,0.006)	-0.004(-0.013,0.006)	<b>-0.969(-1.741,-0.197)</b>	-0.011(-0.026,0.005)	<b>-0.969(-1.741,-0.197)</b>	0.002(-0.001,0.004)
2	-0.005(-0.014,0.004)	-0.005(-0.014,0.004)	-0.271(-1.033,0.490)	-0.003(-0.017,0.011)	-0.271(-1.033,0.490)	-0.001(-0.003,0.002)
3	0.000(-0.009,0.009)	0.000(-0.009,0.009)	-0.180(-0.940,0.580)	0.001(-0.012,0.015)	-0.180(-0.940,0.580)	0.001(-0.002,0.003)
4	0.000(-0.008,0.009)	0.000(-0.008,0.009)	0.187(-0.571,0.944)	0.000(-0.013,0.014)	0.187(-0.571,0.944)	0.000(-0.003,0.002)
5	0.001(-0.008,0.010)	0.001(-0.008,0.010)	0.027(-0.729,0.782)	-0.001(-0.014,0.013)	0.027(-0.729,0.782)	0.000(-0.002,0.002)
6	-0.002(-0.011,0.007)	-0.002(-0.011,0.007)	0.398(-0.357,1.152)	-0.008(-0.021,0.005)	0.398(-0.357,1.152)	0.001(-0.002,0.003)
7	0.000(-0.008,0.009)	0.000(-0.008,0.009)	0.523(-0.224,1.270)	-0.005(-0.018,0.008)	0.523(-0.224,1.270)	0.001(-0.002,0.003)
01	0.002(-0.010,0.013)	0.002(-0.010,0.013)	<b>-1.041(-1.889,-0.194)</b>	-0.008(-0.028,0.011)	<b>-1.041(-1.889,-0.194)</b>	0.002(-0.001,0.006)
02	-0.002(-0.014,0.011)	-0.002(-0.014,0.011)	<b>-0.897(-1.789,-0.005)</b>	-0.009(-0.030,0.012)	<b>-0.897(-1.789,-0.005)</b>	0.001(-0.003,0.005)
03	-0.002(-0.015,0.011)	-0.002(-0.015,0.011)	-0.802(-1.733,0.128)	-0.007(-0.029,0.016)	-0.802(-1.733,0.128)	0.001(-0.003,0.005)
04	-0.001(-0.015,0.013)	-0.001(-0.015,0.013)	-0.638(-1.607,0.330)	-0.006(-0.029,0.018)	-0.638(-1.607,0.330)	0.001(-0.003,0.005)
05	0.000(-0.015,0.014)	0.000(-0.015,0.014)	-0.571(-1.577,0.434)	-0.005(-0.030,0.020)	-0.571(-1.577,0.434)	0.001(-0.003,0.005)
06	-0.001(-0.017,0.014)	-0.001(-0.017,0.014)	-0.417(-1.456,0.623)	-0.009(-0.035,0.017)	-0.417(-1.456,0.623)	0.001(-0.003,0.005)
07	-0.001(-0.017,0.016)	-0.001(-0.017,0.016)	-0.261(-1.335,0.812)	-0.010(-0.037,0.017)	-0.261(-1.335,0.812)	0.001(-0.003,0.006)

*P* < 0.05 are highlighted in bold, indicating statistical significance in the differences.

**Table S7 Comparison of the effects of air pollutants on daily anxiety visits between young-aged group and old-aged group**

Lag days	<45 VS ≥65					
	PM <sub>2.5</sub>	PM <sub>10</sub>	CO	NO <sub>2</sub>	SO <sub>2</sub>	O <sub>3</sub>
0	-0.001(-0.014,0.011)	-0.001(-0.009,0.007)	-0.658(-1.588,0.272)	-0.004(-0.024,0.015)	-0.658(-1.588,0.272)	0.000(-0.004,0.004)
1	-0.004(-0.015,0.007)	-0.001(-0.008,0.006)	-0.579(-1.498,0.339)	0.000(-0.019,0.018)	-0.579(-1.498,0.339)	0.000(-0.003,0.004)
2	0.002(-0.009,0.013)	0.002(-0.005,0.009)	-0.336(-1.236,0.564)	0.011(-0.005,0.028)	-0.336(-1.236,0.564)	0.001(-0.002,0.004)
3	0.003(-0.007,0.014)	0.002(-0.005,0.009)	-0.144(-1.047,0.759)	0.006(-0.010,0.022)	-0.144(-1.047,0.759)	0.001(-0.001,0.004)
4	0.009(-0.002,0.019)	0.005(-0.002,0.011)	0.048(-0.854,0.949)	0.010(-0.006,0.026)	0.048(-0.854,0.949)	0.002(-0.001,0.005)
5	0.002(-0.008,0.013)	0.001(-0.006,0.007)	-0.109(-1.006,0.788)	0.001(-0.014,0.017)	-0.109(-1.006,0.788)	-0.001(-0.004,0.002)
6	-0.001(-0.012,0.009)	-0.001(-0.008,0.005)	0.154(-0.739,1.048)	-0.006(-0.022,0.009)	0.154(-0.739,1.048)	0.000(-0.002,0.003)
7	0.000(-0.010,0.010)	-0.001(-0.007,0.005)	0.427(-0.461,1.314)	-0.003(-0.019,0.012)	0.427(-0.461,1.314)	0.001(-0.002,0.004)
01	-0.004(-0.017,0.010)	-0.001(-0.010,0.007)	-0.739(-1.748,0.270)	-0.003(-0.026,0.019)	-0.739(-1.748,0.270)	0.000(-0.004,0.005)
02	-0.002(-0.016,0.013)	0.000(-0.009,0.009)	-0.702(-1.762,0.359)	0.006(-0.019,0.030)	-0.702(-1.762,0.359)	0.001(-0.003,0.006)
03	0.000(-0.015,0.016)	0.001(-0.008,0.011)	-0.628(-1.735,0.479)	0.009(-0.017,0.035)	-0.628(-1.735,0.479)	0.002(-0.003,0.006)
04	0.005(-0.012,0.021)	0.003(-0.007,0.014)	-0.531(-1.683,0.620)	0.014(-0.014,0.041)	-0.531(-1.683,0.620)	0.003(-0.002,0.007)
05	0.006(-0.012,0.023)	0.004(-0.007,0.015)	-0.513(-1.710,0.683)	0.014(-0.015,0.043)	-0.513(-1.710,0.683)	0.002(-0.003,0.007)
06	0.005(-0.014,0.023)	0.003(-0.008,0.014)	-0.428(-1.666,0.810)	0.010(-0.020,0.040)	-0.428(-1.666,0.810)	0.002(-0.003,0.007)
07	0.005(-0.014,0.024)	0.003(-0.009,0.014)	-0.297(-1.574,0.980)	0.008(-0.023,0.039)	-0.297(-1.574,0.980)	0.003(-0.003,0.008)

*P* < 0.05 are highlighted in bold, indicating statistical significance in the differences.

**Table S8 Comparison of the effects of air pollutants on daily anxiety visits between middle-aged group and old-aged group**

Lag days	45-64 VS ≥65					
	PM <sub>2.5</sub>	PM <sub>10</sub>	CO	NO <sub>2</sub>	SO <sub>2</sub>	O <sub>3</sub>
0	-0.009(-0.020,0.003)	-0.006(-0.013,0.001)	0.117(-0.724,0.957)	-0.004(-0.022,0.014)	0.117(-0.724,0.957)	-0.001(-0.005,0.003)
1	-0.001(-0.011,0.010)	0.001(-0.006,0.007)	0.390(-0.441,1.220)	0.010(-0.006,0.027)	0.390(-0.441,1.220)	-0.001(-0.004,0.002)
2	0.007(-0.003,0.017)	<b>0.006(0.000,0.012)</b>	-0.065(-0.885,0.756)	0.014(-0.001,0.030)	-0.065(-0.885,0.756)	0.002(-0.001,0.004)
3	0.004(-0.006,0.013)	0.004(-0.002,0.010)	0.036(-0.791,0.863)	0.005(-0.010,0.019)	0.036(-0.791,0.863)	0.001(-0.002,0.003)
4	0.008(-0.001,0.018)	<b>0.006(0.000,0.012)</b>	-0.139(-0.969,0.691)	0.010(-0.005,0.024)	-0.139(-0.969,0.691)	0.002(0.000,0.005)
5	0.001(-0.008,0.011)	0.001(-0.005,0.007)	-0.136(-0.956,0.685)	0.002(-0.012,0.016)	-0.136(-0.956,0.685)	-0.001(-0.003,0.002)
6	0.001(-0.009,0.010)	0.001(-0.005,0.007)	-0.243(-1.066,0.579)	0.002(-0.012,0.016)	-0.243(-1.066,0.579)	0.000(-0.003,0.002)
7	0.000(-0.010,0.009)	0.000(-0.005,0.006)	-0.096(-0.914,0.721)	0.002(-0.012,0.016)	-0.096(-0.914,0.721)	0.001(-0.002,0.003)
01	-0.006(-0.018,0.007)	-0.003(-0.011,0.005)	0.302(-0.612,1.216)	0.005(-0.015,0.026)	0.302(-0.612,1.216)	-0.002(-0.006,0.002)
02	0.000(-0.013,0.014)	0.002(-0.007,0.010)	0.195(-0.767,1.158)	0.015(-0.008,0.037)	0.195(-0.767,1.158)	0.000(-0.004,0.004)
03	0.002(-0.012,0.016)	0.003(-0.006,0.012)	0.174(-0.833,1.182)	0.016(-0.008,0.039)	0.174(-0.833,1.182)	0.001(-0.004,0.005)
04	0.006(-0.009,0.021)	0.006(-0.003,0.015)	0.107(-0.945,1.159)	0.020(-0.005,0.045)	0.107(-0.945,1.159)	0.002(-0.002,0.006)
05	0.006(-0.010,0.022)	0.006(-0.004,0.016)	0.058(-1.036,1.153)	0.019(-0.007,0.045)	0.058(-1.036,1.153)	0.001(-0.003,0.006)
06	0.006(-0.011,0.023)	0.006(-0.004,0.017)	-0.012(-1.146,1.123)	0.019(-0.008,0.046)	-0.012(-1.146,1.123)	0.001(-0.004,0.006)
07	0.006(-0.012,0.023)	0.006(-0.005,0.017)	-0.036(-1.206,1.135)	0.019(-0.009,0.047)	-0.036(-1.206,1.135)	0.001(-0.003,0.006)

*P* < 0.05 are highlighted in bold, indicating statistical significance in the differences.



**Table S9 The results (OR with 95% CI) of daily anxiety visits associated with IQR increase in PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>2</sub> CO and O<sub>3</sub> for different degrees of freedom**

<i>df</i> for time (per year)	PM <sub>2.5</sub>	PM <sub>10</sub>	CO	NO <sub>2</sub>	SO <sub>2</sub>	O <sub>3</sub>
5	<b>1.08(1.01, 1.16)</b>	<b>1.12(1.00, 1.25)</b>	<b>1.14(1.05, 1.23)</b>	<b>1.19(1.05, 1.34)</b>	<b>1.06(1.00, 1.12)</b>	<b>1.08(1.01, 1.15)</b>
3	1.06(0.99, 1.14)	1.10(0.98, 1.22)	<b>1.18(1.09, 1.27)</b>	<b>1.16(1.03, 1.31)</b>	1.05(1.00, 1.11)	<b>1.09(1.02, 1.17)</b>
4	<b>1.07(1.00, 1.15)</b>	1.10(0.99, 1.23)	<b>1.16(1.08, 1.26)</b>	<b>1.17(1.04, 1.33)</b>	<b>1.09(1.03, 1.15)</b>	<b>1.09(1.03, 1.17)</b>
6	1.07(1.00, 1.14)	1.07(0.96, 1.20)	<b>1.11(1.02, 1.20)</b>	<b>1.17(1.03, 1.32)</b>	1.04(0.98, 1.11)	1.06(0.99, 1.13)
7	1.07(1.00, 1.14)	1.08(0.96, 1.20)	<b>1.10(1.01, 1.19)</b>	<b>1.14(1.01, 1.29)</b>	1.05(0.99, 1.12)	1.06(1.00, 1.13)

*P* < 0.05 are highlighted in bold; PM<sub>2.5</sub> at lag1, PM<sub>10</sub> at lag07, CO at lag02, NO<sub>2</sub> at lag07, SO<sub>2</sub> at lag7, O<sub>3</sub> at lag7

**Table S10 The results (OR with 95% CI) of daily anxiety visits associated with IQR increase in PM<sub>2.5</sub>, PM<sub>10</sub>, CO, SO<sub>2</sub>, NO<sub>2</sub> and O<sub>3</sub> in two-pollutant models**

	Two pollutants models	OR (95%CI)
PM <sub>2.5</sub>	-	<b>1.08(1.01, 1.16)</b>
	+CO	1.02(0.96, 1.09)
	+NO <sub>2</sub>	<b>1.10(1.01, 1.20)</b>
	+SO <sub>2</sub>	<b>1.08(1.00, 1.17)</b>
	+O <sub>3</sub>	<b>1.10(1.02, 1.20)</b>
PM <sub>10</sub>	-	<b>1.12(1.00, 1.25)</b>
	+CO	1.10(0.98, 1.23)
	+NO <sub>2</sub>	1.02(0.89, 1.18)
	+SO <sub>2</sub>	1.10(0.96, 1.25)
	+O <sub>3</sub>	<b>1.21(1.02, 1.43)</b>
CO	-	<b>1.14(1.05, 1.23)</b>
	+PM <sub>2.5</sub>	<b>1.13(1.04, 1.23)</b>
	+PM <sub>10</sub>	<b>1.13(1.04, 1.22)</b>
	+NO <sub>2</sub>	<b>1.13(1.05, 1.23)</b>
	+SO <sub>2</sub>	<b>1.16(1.07, 1.26)</b>
NO <sub>2</sub>	-	<b>1.19(1.05, 1.34)</b>
	+PM <sub>2.5</sub>	<b>1.19(1.03, 1.39)</b>
	+PM <sub>10</sub>	<b>1.17(1.00, 1.37)</b>
	+CO	<b>1.17(1.03, 1.32)</b>
	+SO <sub>2</sub>	<b>1.17(1.03, 1.34)</b>
SO <sub>2</sub>	-	<b>1.06(1.00, 1.12)</b>
	+PM <sub>2.5</sub>	1.04(0.97, 1.11)

<b>O<sub>3</sub></b>	+PM <sub>10</sub>	1.02(0.95, 1.10)
	+NO <sub>2</sub>	1.04(0.98, 1.11)
	+CO	<b>1.06(1.00, 1.13)</b>
	+O <sub>3</sub>	1.03(0.96, 1.10)
	-	<b>1.08(1.01, 1.15)</b>
	+PM <sub>2.5</sub>	1.07(0.98, 1.17)
	+PM <sub>10</sub>	1.04(0.95, 1.14)
	+NO <sub>2</sub>	1.06(0.99, 1.14)
	+CO	<b>1.08(1.01, 1.15)</b>
	+ SO <sub>2</sub>	1.06(0.98, 1.14)

$P < 0.05$  are highlighted in bold;

**Table S11 The results (OR with 95% CI) of daily anxiety visits associated with IQR increase in PM<sub>2.5</sub>, PM<sub>10</sub>, CO, SO<sub>2</sub>, NO<sub>2</sub> and O<sub>3</sub> for different lag structures, restricting analysis before January 8, 2023.**

Lag days	PM <sub>2.5</sub>	PM <sub>10</sub>	CO	NO <sub>2</sub>	SO <sub>2</sub>	O <sub>3</sub>
0	1.01(0.93, 1.10)	1.03(0.96, 1.11)	<b>1.10(1.03, 1.19)</b>	1.02(0.94, 1.10)	1.02(0.90, 1.15)	0.95(0.86, 1.05)
1	<b>1.09(1.02, 1.17)</b>	1.07(1.00, 1.14)	<b>1.11(1.03, 1.19)</b>	1.03(0.96, 1.11)	1.06(0.95, 1.19)	1.00(0.93, 1.09)
2	1.04(0.97, 1.11)	1.03(0.97, 1.10)	1.07(1.00, 1.15)	1.04(0.97, 1.11)	1.07(0.97, 1.19)	1.00(0.92, 1.08)
3	1.02(0.95, 1.09)	1.02(0.96, 1.08)	1.02(0.95, 1.10)	<b>1.07(1.01, 1.14)</b>	1.07(0.97, 1.18)	0.99(0.92, 1.06)
4	1.00(0.94, 1.07)	1.01(0.95, 1.07)	0.99(0.92, 1.06)	1.06(0.99, 1.13)	1.06(0.97, 1.17)	0.96(0.90, 1.03)
5	1.00(0.94, 1.07)	1.01(0.95, 1.07)	0.97(0.91, 1.04)	1.04(0.98, 1.10)	1.05(0.95, 1.15)	0.96(0.89, 1.03)
6	1.00(0.94, 1.07)	1.01(0.95, 1.07)	0.98(0.91, 1.05)	1.02(0.96, 1.08)	1.02(0.93, 1.12)	1.00(0.93, 1.07)
7	1.06(1.00, 1.13)	<b>1.07(1.01, 1.13)</b>	1.05(0.98, 1.12)	1.05(0.99, 1.12)	<b>1.10(1.00, 1.21)</b>	1.07(1.00, 1.14)
01	1.08(0.98, 1.17)	1.07(0.98, 1.16)	<b>1.13(1.04, 1.22)</b>	1.04(0.94, 1.13)	1.05(0.92, 1.20)	0.97(0.87, 1.08)
02	1.08(0.98, 1.19)	1.07(0.98, 1.17)	<b>1.13(1.04, 1.22)</b>	1.06(0.96, 1.17)	1.08(0.94, 1.24)	0.98(0.87, 1.09)
03	1.08(0.98, 1.19)	1.07(0.97, 1.17)	<b>1.11(1.02, 1.21)</b>	1.10(0.99, 1.22)	1.09(0.95, 1.26)	0.97(0.87, 1.10)
04	1.07(0.96, 1.19)	1.06(0.96, 1.17)	1.09(1.00, 1.19)	<b>1.12(1.00, 1.25)</b>	1.10(0.95, 1.27)	0.96(0.85, 1.08)
05	1.06(0.94, 1.19)	1.06(0.95, 1.17)	1.07(0.98, 1.18)	<b>1.13(1.00, 1.27)</b>	1.10(0.94, 1.28)	0.94(0.83, 1.06)
06	1.05(0.93, 1.19)	1.05(0.94, 1.17)	1.06(0.96, 1.17)	1.13(1.00, 1.27)	1.09(0.93, 1.27)	0.94(0.82, 1.07)
07	1.08(0.95, 1.22)	1.08(0.97, 1.21)	1.07(0.97, 1.19)	<b>1.14(1.01, 1.30)</b>	1.12(0.95, 1.32)	0.97(0.85, 1.12)

*P*<0.05 are highlighted in bold.