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Supplemental Table 1. Data description on the meteorological factors and air pollution

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Meteorology (Mean, SD)										
Average Temperature (°C)	13.9(9.6)	13.9(9.4)	13.4(9.6)	12.8(9.4)	12.9(9.8)	13.6(9.6)	14.1(9.6)	14.0(9.4)	14.3(9.2)	14.0(9.3)
High Temperature (°C)	18.4(9.8)	18.4(9.6)	17.8(9.7)	17.2(9.5)	17.4(9.9)	18.1(9.7)	18.9(9.7)	18.9(9.6)	19.0(9.3)	18.8(9.3)
Low Temperature (°C)	10.1(9.7)	10.1(9.5)	9.8(10.9)	9.2(10.6)	9.1(11.0)	9.8(9.9)	10.2(9.9)	10.0(9.5)	10.3(9.4)	9.9(9.6)
Daily Range (°C)	8.3(2.9)	8.3(3.0)	7.9(2.9)	8.0(3.0)	8.3(2.7)	8.2(3.1)	8.6(3.1)	8.8(3.2)	8.7(2.9)	8.8(3.0)
Vapor Pressure (hPa)	11.9(7.8)	11.7(7.4)	12.5(8.9)	11.4(8.3)	11.3(8.3)	12.3(8.8)	12.9(8.4)	12.3(7.8)	12.9(8.8)	12.3(8.9)
Solar Radiation (MJ/m^2)	13.5(6.8)	13.8(7.1)	12.9(6.7)	13.1(6.9)	12.8(6.4)	13.0(6.8)	12.9(6.3)	13.1(6.6)	13.2(6.4)	13.7(6.9)
Sunshine Duration (hr)	12.2(1.7)	12.2(1.7)	12.2(1.7)	12.1(1.7)	12.2(1.7)	12.2(1.7)	12.2(1.7)	12.1(1.7)	12.2(1.7)	12.2(1.7)
Wind Speed (m/s)	2.4(0.9)	2.5(1.0)	2.5(1.0)	2.6(1.0)	2.7(1.0)	2.7(1.1)	2.5(1.0)	2.6(1.0)	2.4(1.0)	2.3(0.9)
Daily Rain (mm)	8.8(18.8)	13(31.5)	10(19.9)	12.8(31)	10.8(21)	9.5(18.1)	8.3(16.7)	6.1(10.6)	7.9(16.9)	6.2(16.3)
Dew Point Temperature (°C)	5.9(11.6)	5.8(11.2)	6.1(12.2)	4.6(12.5)	4.4(12.5)	5.8(12.1)	7.1(11.7)	6.8(10.6)	6.8(12.0)	5.8(12.3)
Humidity (%)	61(15.2)	61(15.8)	64(15.6)	60(16.9)	59(16.1)	62(16.1)	65(16.9)	65(16.2)	64(16.4)	61(16.1)
Daily snow (cm)	3.7(3.0)	2.4(2.2)	8.2(6.8)	2.7(2.1)	3.6(2.9)	5.5(4.3)	2.1(1.8)	2.4(2.5)	1.9(2.9)	1.9(1.6)
Cloud (1/10)	4.7(3.0)	4.6(3.1)	5.1(3.2)	5.0(3.3)	4.9(3.0)	4.8(3.1)	4.8(3.1)	4.8(3.1)	4.8(2.9)	4.6(3.0)
Air Pollutants (Mean, SD)										
$PM_{2.5}$ (ug/m^3)	-	-	-	-	28(12)	27(13)	25(14)	24(12)	25(14)	23(12)
PM_{10} (ug/m^3)	56(30)	54(29)	50(28)	49(30)	45(21)	47(23)	48(26)	47(34)	46(19)	45(20)
O_3 (100ppb)	1.9(0.9)	2.1(1.0)	1.9(0.9)	1.9(1.0)	2.1(1.0)	2.2(1.0)	2.3(1.1)	2.2(1.0)	2.4(1.1)	2.5(1.1)
NO_2 (100ppb)	3.4(1.4)	3.3(1.3)	3.2(1.3)	3.2(1.3)	3.1(1.2)	3.2(1.3)	3.1(1.3)	3.1(1.3)	2.9(1.1)	2.8(1.1)
SO_2 (100ppb)	0.6(0.2)	0.5(0.2)	0.5(0.2)	0.5(0.2)	0.5(0.2)	0.5(0.2)	0.5(0.2)	0.5(0.1)	0.4(0.1)	0.4(0.1)
CO (10ppm)	0.6(0.2)	0.6(0.2)	0.5(0.2)	0.5(0.2)	0.5(0.2)	0.5(0.2)	0.5(0.1)	0.5(0.1)	0.5(0.1)	0.4(0.1)

O_3 was analyzed by the 8-hour maximum per time or day.

SD denotes standard deviation; min, minimum; max, maximum; ppb, parts-per-billion; ppm, parts-per-million.

Supplemental Table 2.

Akaike Information Criterion (AIC) between site of fracture and meteorological factors including air pollutants (MFAPs)

Hip		
Test	MFAP as effect	AIC
1	Average Temperature, Diurnal Temperature Range, Daily Rain, Wind Speed, Dew point Temperature, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, $PM_{10,}$ $PM_{2.5,}$ CO, $SO_{2,}$ $O_{3,}$ NO_2	197.3
2	Average Temperature, Diurnal Temperature Range, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, $PM_{10,}$ $PM_{2.5,}$ CO, $O_{3,}$ NO_2	196.7
3	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, $PM_{10,}$ $PM_{2.5,}$ CO, NO_2	196.2
4	Average Temperature, Daily Rain, Wind Speed, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, $PM_{10,}$ $PM_{2.5,}$ CO,NO_2	191.7
5	Average Temperature, Daily Rain, Wind Speed, Vapor Pressure, Daily Snow, $PM_{10,}$ $PM_{2.5,}$ CO, NO_2	189.6
6	Average Temperature, Daily Rain, Wind Speed, Vapor Pressure, Daily Snow, $PM_{10,}$ $PM_{2.5}$	188.5
7	Average Temperature, Daily Rain, Wind Speed, Daily Snow, $PM_{10,}$ $PM_{2.5}$	188.5
8	**Average Temperature, Daily Rain, Wind Speed, Daily Snow, $PM_{2.5}$**	**187.3**
Knee		
Test	MFAP as effect	AIC
1	Average Temperature, Diurnal Temperature Range, Daily Rain, Wind Speed, Dew point Temperature, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, $PM_{10,}$ $PM_{2.5,}$ CO, $SO_{2,}$ $O_{3,}$ NO_2	125.8
2	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Daily Snow, Cloud, $PM_{10,}$ $PM_{2.5,}$ CO, $SO_{2,}$ $O_{3,}$ NO_2	123.6
3	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Daily Snow, Cloud, $PM_{10,}$ $PM_{2.5,}$ CO, NO_2	123.1
4	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Daily Snow, Cloud, $PM_{10,}$ $PM_{2.5,}$ CO	123.1
5	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Daily Snow, $PM_{2.5,}$ CO	121.7
6	Average Temperature, Daily Rain, Wind Speed, Humidity, Daily Snow, $PM_{2.5,}$ CO	121.7
7	**Average Temperature, Daily Rain, Wind Speed, Daily Snow, $PM_{2.5}$**	**119.5**
Shoulder		
Test	MFAP as effect	AIC
1	Average Temperature, Diurnal Temperature Range, Daily Rain, Wind Speed, Dew point Temperature, Humidity, Vapor Pressure, Sunshine	151.1

	Duration, Solar Radiation, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO, SO_2, O_3, NO_2	
2	Average Temperature, Diurnal Temperature Range, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO, NO_2	149.9
3	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO, NO_2	146.6
4	Average Temperature, Daily Rain, Wind Speed, Humidity, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO, NO_2	146.3
5	Average Temperature, Daily Rain, Wind Speed, Humidity, Daily Snow, PM_{10}, $PM_{2.5}$	146.2
6	**Average Temperature, Daily Rain, Wind Speed, Daily Snow, $PM_{2.5}$**	**142.8**
	Elbow	
Test	MFAP as effect	AIC
1	Average Temperature, Diurnal Temperature Range, Daily Rain, Wind Speed, Dew point Temperature, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO, SO_2, O_3, NO_2	153.7
2	Average Temperature, Diurnal Temperature Range, Daily Rain, Wind Speed, Dew point Temperature, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO, NO_2	153.5
3	Average Temperature, Daily Rain, Wind Speed, Dew point Temperature, Vapor Pressure, Sunshine Duration, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO, NO_2	149.1
4	Average Temperature, Daily Rain, Wind Speed, Dew point Temperature, Vapor Pressure, Daily Snow, PM_{10}, $PM_{2.5}$, NO_2	148.2
5	Average Temperature, Daily Rain, Wind Speed, Daily Snow, PM_{10}, $PM_{2.5}$	148.1
6	**Average Temperature, Daily Rain, Wind Speed, Daily Snow, $PM_{2.5}$**	**145.8**
	Wrist	
Test	MFAP as effect	AIC
1	Average Temperature, Diurnal Temperature Range, Daily Rain, Wind Speed, Dew point Temperature, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO, SO_2, O_3, NO_2	480.2
2	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO, O_3, NO_2	480.1
3	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO	477.8
4	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Daily Snow, PM_{10}, $PM_{2.5}$	473.4
5	Average Temperature, Daily Rain, Wind Speed, Daily Snow, PM_{10}, $PM_{2.5}$	469.6
6	**Average Temperature, Daily Rain, Wind Speed, Daily Snow, $PM_{2.5}$**	**460.5**
	Hand	
Test	MFAP as effect	AIC
1	Average Temperature, Diurnal Temperature Range, Daily Rain, Wind Speed, Dew point Temperature, Humidity, Vapor Pressure, Sunshine	1531.9

	Duration, Solar Radiation, Daily Snow, Cloud, $PM_{10,}$ $PM_{2.5,}$ CO, $SO_{2,}$ $O_{3,}$ NO_2	
2	Average Temperature, Daily Rain, Wind Speed, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, $PM_{10,}$ $PM_{2.5,}$ CO, $SO_{2,}$ $O_{3,}$ NO_2	1467.8
3	Average Temperature, Daily Rain, Wind Speed, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, $PM_{2.5,}$ CO, $O_{3,}$ NO_2	1465.1
4	Average Temperature, Daily Rain, Wind Speed, Sunshine Duration, Daily Snow, $PM_{2.5,}$ CO, NO_2	1455.3
5	Average Temperature, Daily Rain, Wind Speed, Daily Snow, $PM_{2.5,}$ NO_2	1458.1
6	**Average Temperature, Daily Rain, Wind Speed, Daily Snow, $PM_{2.5}$**	**1452.4**
	Ankle	
Test	MFAP as effect	AIC
1	Average Temperature, Diurnal Temperature Range, Daily Rain, Wind Speed, Dew point Temperature, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, $PM_{10,}$ $PM_{2.5,}$ CO, $SO_{2,}$ $O_{3,}$ NO_2	237.1
2	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, $PM_{10,}$ $PM_{2.5,}$ CO, $SO_{2,}$ NO_2	235.7
3	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Daily Snow, Cloud, $PM_{2.5,}$ CO, NO_2	231.2
4	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Daily Snow, $PM_{2.5,}$ NO_2	230.3
5	Average Temperature, Daily Rain, Wind Speed, Humidity, Daily Snow, $PM_{2.5}$	230.2
6	**Average Temperature, Daily Rain, Wind Speed, Daily Snow, $PM_{2.5}$**	**229.6**
	Foot	
Test	MFAP as effect	AIC
1	Average Temperature, Diurnal Temperature Range, Daily Rain, Wind Speed, Dew point Temperature, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, $PM_{10,}$ $PM_{2.5,}$ CO, $SO_{2,}$ $O_{3,}$ NO_2	299.2
2	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, $PM_{10,}$ $PM_{2.5,}$ CO, $SO_{2,}$ $O_{3,}$ NO_2	290.8
3	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Daily Snow, Cloud, $PM_{2.5,}$ CO, $SO_{2,}$ $O_{3,}$ NO_2	290.5
4	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Daily Snow, Cloud, $PM_{2.5,}$ CO, NO_2	290.3
5	Average Temperature, Daily Rain, Wind Speed, Humidity, Daily Snow, Cloud, $PM_{2.5,}$ CO, NO_2	289.8
6	Average Temperature, Daily Rain, Wind Speed, Daily Snow, $PM_{2.5,}$ CO, NO_2	289.6
7	**Average Temperature, Daily Rain, Wind Speed, Daily Snow, $PM_{2.5}$**	**289.1**
	Spine	
Test	MFAP as effect	AIC
1	Average Temperature, Diurnal Temperature Range, Daily Rain, Wind Speed, Dew point Temperature, Humidity, Vapor Pressure, Sunshine	434.1

	Duration, Solar Radiation, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO, SO_2, O_3, NO_2	
2	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Solar Radiation, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO, SO_2, O_3, NO_2	429.2
3	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Daily Snow, Cloud, PM_{10}, $PM_{2.5}$, CO, SO_2, NO_2	425.6
4	Average Temperature, Daily Rain, Wind Speed, Humidity, Vapor Pressure, Sunshine Duration, Daily Snow, PM_{10}, $PM_{2.5}$, CO, NO_2	425.1
5	Average Temperature, Daily Rain, Wind Speed, Humidity, Daily Snow, PM_{10}, $PM_{2.5}$, CO, NO_2	424.7
6	Average Temperature, Daily Rain, Wind Speed, Humidity, Daily Snow, $PM_{2.5}$, CO	424.5
7	**Average Temperature, Daily Rain, Wind Speed, Humidity, Daily Snow, $PM_{2.5}$**	**422.1**

Supplemental Table 3.

Multivariate analysis of GAM with cubic splines for site of fracture depending on lags through from 2008 to 2017

Time	Variables	Hip				Knee			
		RR	ER(%)	95% CI	P-value	RR	ER(%)	95% CI	P-value
Lag 0	Avg. Temp.	1.0199	1.99	[1.0196-1.0202]	<.0001	1.0162	1.62	[1.0159-1.0165]	<.0001
	Daily Rain	1.0033	0.33	[1.0030-1.0036]	<.0001	1.0021	0.21	[1.0018-1.0024]	<.0001
	Wind Speed	1.0354	3.54	[1.0324-1.0383]	<.0001	1.0242	2.42	[1.0210-1.0275]	<.0001
	Daily Snow	1.0099	0.99	[1.0081-1.0117]	<.0001	1.0116	1.16	[1.0097-1.0135]	<.0001
	$PM_{2.5}$	1.0055	0.55	[1.0052-1.0057]	<.0001	1.0037	0.37	[1.0034-1.0040]	<.0001
Lag 1	Avg. Temp.	1.0202	2.02	[1.0199-1.0204]	<.0001	1.0163	1.63	[1.0161-1.0166]	<.0001
	Daily Rain	1.0029	0.29	[1.0027-1.0031]	<.0001	1.0015	0.15	[1.0013-1.0017]	<.0001
	Wind Speed	1.0379	3.79	[1.0359-1.0399]	<.0001	1.0298	2.98	[1.0274-1.0323]	<.0001
	Daily Snow	1.0083	0.83	[1.0070-1.0096]	0.0003	1.0115	1.15	[1.0100-1.0129]	<.0001
	$PM_{2.5}$	1.0048	0.48	[1.0046-1.0050]	<.0001	1.0037	0.37	[1.0035-1.0040]	<.0001
Lag 2	Avg. Temp.	1.0200	2.00	[1.0198-1.0203]	<.0001	1.0163	1.63	[1.0161-1.0166]	<.0001
	Daily Rain	1.0030	0.30	[1.0028-1.0032]	0.0002	1.0017	0.17	[1.0015-1.0019]	<.0001
	Wind Speed	1.0442	4.42	[1.0422-1.0462]	<.0001	1.0343	3.43	[1.0319-1.0367]	<.0001
	Daily Snow	1.0058	0.58	[1.0045-1.0071]	<.0001	1.0099	0.99	[1.0085-1.0114]	<.0001
	$PM_{2.5}$	1.0039	0.39	[1.0037-1.0041]	<.0001	1.0029	0.29	[1.0027-1.0032]	0.0005
Lag 3	Avg. Temp.	1.0200	2.00	[1.0198-1.0202]	<.0001	1.0163	1.63	[1.0161-1.0165]	<.0001
	Daily Rain	1.0034	0.34	[1.0032-1.0036]	0.0001	1.0018	0.18	[1.0015-1.0020]	0.0002
	Wind Speed	1.0180	1.80	[1.0158-1.0201]	<.0001	1.0286	2.86	[1.0262-1.0310]	<.0001
	Daily Snow	1.0036	0.36	[1.0023-1.0050]	0.0004	1.0058	0.58	[1.0043-1.0074]	<.0001
	$PM_{2.5}$	1.0034	0.34	[1.0032-1.0037]	<.0001	1.0031	0.31	[1.0028-1.0034]	<.0001
Lag 4	Avg. Temp.	1.0200	2.00	[1.0198-1.0202]	<.0001	1.0162	1.62	[1.0159-1.0164]	<.0001
	Daily Rain	1.0026	0.26	[1.0024-1.0028]	0.0002	1.0020	0.20	[1.0017-1.0022]	0.0005
	Wind Speed	1.0096	0.96	[1.0075-1.0118]	<.0001	1.0229	2.29	[1.0204-1.0254]	<.0001
	Daily Snow	1.0052	0.52	[1.0039-1.0066]	<.0001	1.0026	0.26	[1.0010-1.0042]	<.0001
	$PM_{2.5}$	1.0009	0.09	[1.0007-1.0012]	0.0512	1.0024	0.24	[1.0021-1.0026]	<.0001
Lag 5	Avg. Temp.	1.0101	1.01	[1.0099-1.0103]	<.0001	1.0163	1.63	[1.0161-1.0165]	<.0001

	Daily Rain	1.0020	0.20	[1.0018-1.0022]	0.0001	1.0017	0.17	[1.0015-1.0020]	<.0001
	Wind Speed	1.0023	0.23	[1.0001-1.0044]	0.0432	1.0204	2.04	[1.0179-1.0229]	<.0001
	Daily Snow	1.0018	0.18	[1.0003-1.0032]	<.0001	1.0024	0.24	[1.0007-1.0041]	0.0218
	$PM_{2.5}$	1.0006	0.06	[1.0003-1.0008]	<.0001	1.0019	0.19	[1.0017-1.0022]	<.0001
	Avg. Temp.	1.0099	0.99	[1.0097-1.0101]	<.0001	1.0163	1.63	[1.0160-1.0165]	<.0001
	Daily Rain	1.0019	0.19	[1.0017-1.0021]	0.0002	1.0016	0.16	[1.0014-1.0018]	<.0001
Lag 6	Wind Speed	1.0020	0.20	[0.9998-1.0041]	0.4289	1.0103	1.03	[1.0079-1.0128]	<.0001
	Daily Snow	1.0011	0.11	[0.9996-1.0025]	0.5743	1.0007	0.07	[0.9990-1.0023]	0.1976
	$PM_{2.5}$	1.0004	0.04	[1.0002-1.0006]	0.0012	1.0014	0.14	[1.0011-1.0017]	<.0001
	Avg. Temp.	1.0020	0.20	[1.0018-1.0022]	0.0023	1.0163	1.63	[1.0161-1.0165]	<.0001
	Daily Rain	1.0016	0.16	[1.0014-1.0018]	0.0005	1.0009	0.09	[1.0006-1.0011]	0.0356
Lag 7	Wind Speed	1.0014	0.14	[0.9993-1.0034]	0.4980	1.0024	0.24	[0.9999-1.0048]	0.5569
	Daily Snow	1.0009	0.09	[0.9995-1.0023]	0.5533	1.0003	0.03	[0.9988-1.0019]	0.7635
	$PM_{2.5}$	1.0003	0.03	[1.0001-1.0005]	0.0045	1.0009	0.09	[1.0006-1.0012]	0.0144

Time	Variables	**Shoulder**				**Elbow**			
		RR	ER(%)	95% CI	P-value	RR	ER(%)	95% CI	P-value
	Avg. Temp.	1.0134	1.34	[1.0131-1.0137]	<.0001	1.0101	1.01	[1.0099-1.0104]	<.0001
	Daily Rain	1.0015	0.15	[1.0012-1.0018]	<.0001	1.0015	0.15	[1.0012-1.0018]	<.0001
Lag 0	Wind Speed	1.0165	1.65	[1.0134-1.0197]	<.0001	1.0124	1.24	[1.0093-1.0155]	<.0001
	Daily Snow	1.0128	1.28	[1.0110-1.0146]	<.0001	1.0149	1.49	[1.0132-1.0166]	<.0001
	$PM_{2.5}$	1.0032	0.32	[1.0029-1.0035]	<.0001	1.0019	0.19	[1.0016-1.0023]	<.0001
	Avg. Temp.	1.0136	1.36	[1.0134-1.0138]	<.0001	1.0103	1.03	[1.0101-1.0105]	<.0001
	Daily Rain	1.0013	0.13	[1.0012-1.0015]	<.0001	1.0008	0.08	[1.0006-1.0010]	0.0013
Lag 1	Wind Speed	1.0209	2.09	[1.0189-1.0230]	<.0001	1.0178	1.78	[1.0159-1.0196]	<.0001
	Daily Snow	1.0130	1.30	[1.0118-1.0142]	<.0001	1.0144	1.44	[1.0134-1.0155]	<.0001
	$PM_{2.5}$	1.0033	0.33	[1.0031-1.0035]	<.0001	1.0020	0.20	[1.0018-1.0022]	<.0001
	Avg. Temp.	1.0135	1.35	[1.0133-1.0137]	<.0001	1.0104	1.04	[1.0102-1.0105]	<.0001
	Daily Rain	1.0014	0.14	[1.0012-1.0016]	<.0001	1.0008	0.08	[1.0006-1.0009]	0.0017
Lag 2	Wind Speed	1.0255	2.55	[1.0234-1.0275]	<.0001	1.0201	2.01	[1.0182-1.0219]	<.0001
	Daily Snow	1.0112	1.12	[1.0099-1.0124]	<.0001	1.0116	1.16	[1.0105-1.0126]	<.0001
	$PM_{2.5}$	1.0034	0.34	[1.0031-1.0036]	<.0001	1.0021	0.21	[1.0019-1.0023]	0.0005

Lag 3	Avg. Temp.	1.0135	1.35	[1.0133-1.0137]	<.0001	1.0103	1.03	[1.0101-1.0105]	<.0001
	Daily Rain	1.0012	0.12	[1.0010-1.0013]	0.0006	1.0009	0.09	[1.0007-1.0010]	0.0018
	Wind Speed	1.0218	2.18	[1.0198-1.0239]	<.0001	1.0248	2.48	[1.0230-1.0266]	<.0001
	Daily Snow	1.0075	0.75	[1.0062-1.0088]	<.0001	1.0097	0.97	[1.0086-1.0108]	<.0001
	$PM_{2.5}$	1.0033	0.33	[1.0030-1.0035]	<.0001	1.0019	0.19	[1.0017-1.0021]	<.0001
Lag 4	Avg. Temp.	1.0135	1.35	[1.0133-1.0137]	<.0001	1.0101	1.01	[1.0099-1.0103]	<.0001
	Daily Rain	1.0014	0.14	[1.0012-1.0016]	<.0001	1.0010	0.10	[1.0009-1.0012]	<.0001
	Wind Speed	1.0181	1.81	[1.0160-1.0201]	<.0001	1.0188	1.88	[1.0170-1.0207]	<.0001
	Daily Snow	1.0028	0.28	[1.0015-1.0042]	<.0001	1.0070	0.70	[1.0059-1.0082]	<.0001
	$PM_{2.5}$	1.0023	0.23	[1.0021-1.0026]	<.0001	1.0017	0.17	[1.0015-1.0019]	<.0001
Lag 5	Avg. Temp.	1.0137	1.37	[1.0135-1.0138]	<.0001	1.0102	1.02	[1.0101-1.0104]	<.0001
	Daily Rain	1.0014	0.14	[1.0012-1.0015]	0.0001	1.0009	0.09	[1.0007-1.0010]	0.0011
	Wind Speed	1.0173	1.73	[1.0152-1.0194]	<.0001	1.0172	1.72	[1.0153-1.0190]	<.0001
	Daily Snow	1.0002	0.02	[0.9988-1.0017]	0.1489	1.0013	0.13	[1.0000-1.0025]	0.0561
	$PM_{2.5}$	1.0017	0.17	[1.0015-1.0020]	<.0001	1.0010	0.10	[1.0008-1.0013]	0.0023
Lag 6	Avg. Temp.	1.0136	1.36	[1.0134-1.0138]	<.0001	1.0103	1.03	[1.0101-1.0105]	<.0001
	Daily Rain	1.0008	0.08	[1.0007-1.0010]	0.0028	1.0009	0.09	[1.0007-1.0010]	0.0013
	Wind Speed	1.0149	1.49	[1.0129-1.0170]	<.0001	1.0153	1.53	[1.0135-1.0171]	<.0001
	Daily Snow	1.0001	0.01	[0.9987-1.0015]	0.5731	1.0012	0.12	[0.9999-1.0024]	0.4791
	$PM_{2.5}$	1.0012	0.12	[1.0010-1.0015]	0.0010	1.0009	0.09	[1.0007-1.0011]	0.0031
Lag 7	Avg. Temp.	1.0137	1.37	[1.0135-1.0139]	<.0001	1.0103	1.03	[1.0102-1.0105]	<.0001
	Daily Rain	1.0001	0.01	[1.0000-1.0003]	0.0556	1.0007	0.07	[1.0005-1.0008]	0.0033
	Wind Speed	1.0111	1.11	[1.0090-1.0131]	<.0001	1.0119	1.19	[1.0100-1.0137]	0.5569
	Daily Snow	1.0001	0.01	[0.9988-1.0015]	0.7631	1.0009	0.09	[0.9997-1.0021]	0.6583
	$PM_{2.5}$	1.0003	0.03	[1.0000-1.0005]	0.0612	1.0008	0.08	[1.0006-1.0010]	0.0237

Time	Variables	**Wrist**				**Hand**			
		RR	ER(%)	95% CI	P-value	RR	ER(%)	95% CI	P-value
Lag 0	Avg. Temp.	1.0148	1.48	[1.0146-1.0151]	<.0001	1.0203	2.03	[1.0195-1.0211]	<.0001
	Daily Rain	1.0023	0.23	[1.0020-1.0025]	<.0001	1.0025	0.25	[1.0016-1.0033]	<.0001
	Wind Speed	1.0174	1.74	[1.0147-1.0201]	<.0001	1.0058	0.58	[0.9959-1.0157]	<.0001
	Daily Snow	1.0145	1.45	[1.0133-1.0158]	<.0001	1.0241	2.41	[1.0196-1.0285]	<.0001

	$PM_{2.5}$	1.0020	0.20	[1.0017-1.0023]	<.0001	1.0047	0.47	[1.0038-1.0056]	<.0001
Lag 1	Avg. Temp.	1.0149	1.49	[1.0148-1.0150]	<.0001	1.0205	2.05	[1.0196-1.0213]	<.0001
	Daily Rain	1.0020	0.20	[1.0019-1.0022]	<.0001	1.0027	0.27	[1.0019-1.0035]	0.0013
	Wind Speed	1.0218	2.18	[1.0206-1.0230]	<.0001	1.0157	1.57	[1.0061-1.0254]	<.0001
	Daily Snow	1.0143	1.43	[1.0137-1.0148]	<.0001	1.0237	2.37	[1.0188-1.0285]	<.0001
	$PM_{2.5}$	1.0022	0.22	[1.0020-1.0023]	<.0001	1.0043	0.43	[1.0033-1.0052]	<.0001
Lag 2	Avg. Temp.	1.0149	1.49	[1.0148-1.0151]	<.0001	1.0207	2.07	[1.0198-1.0215]	<.0001
	Daily Rain	1.0020	0.20	[1.0019-1.0021]	<.0001	1.0014	0.14	[1.0006-1.0021]	0.0024
	Wind Speed	1.0238	2.38	[1.0226-1.0250]	<.0001	1.0237	2.37	[1.0141-1.0332]	<.0001
	Daily Snow	1.0116	1.16	[1.0110-1.0122]	<.0001	1.0172	1.72	[1.0122-1.0223]	<.0001
	$PM_{2.5}$	1.0021	0.21	[1.0019-1.0022]	<.0001	1.0041	0.41	[1.0031-1.0050]	<.0001
Lag 3	Avg. Temp.	1.0149	1.49	[1.0147-1.0150]	<.0001	1.0207	2.07	[1.0199-1.0215]	<.0001
	Daily Rain	1.0018	0.18	[1.0017-1.0019]	<.0001	1.0019	0.19	[1.0012-1.0027]	<.0001
	Wind Speed	1.0282	2.82	[1.0270-1.0293]	<.0001	1.0308	3.08	[1.0214-1.0402]	<.0001
	Daily Snow	1.0099	0.99	[1.0093-1.0105]	<.0001	1.0112	1.12	[1.0060-1.0165]	<.0001
	$PM_{2.5}$	1.0025	0.25	[1.0023-1.0026]	<.0001	1.0049	0.49	[1.0039-1.0058]	<.0001
Lag 4	Avg. Temp.	1.0146	1.46	[1.0145-1.0147]	<.0001	1.0205	2.05	[1.0197-1.0213]	<.0001
	Daily Rain	1.0019	0.19	[1.0018-1.0020]	<.0001	1.0032	0.32	[1.0023-1.0041]	<.0001
	Wind Speed	1.0197	1.97	[1.0185-1.0209]	<.0001	1.0335	3.35	[1.0240-1.0430]	<.0001
	Daily Snow	1.0078	0.78	[1.0071-1.0084]	<.0001	1.0083	0.83	[1.0031-1.0135]	<.0001
	$PM_{2.5}$	1.0025	0.25	[1.0023-1.0026]	<.0001	1.0039	0.39	[1.0030-1.0049]	<.0001
Lag 5	Avg. Temp.	1.0146	1.46	[1.0145-1.0147]	<.0001	1.0205	2.05	[1.0197-1.0213]	<.0001
	Daily Rain	1.0017	0.17	[1.0015-1.0018]	<.0001	1.0022	0.22	[1.0015-1.0030]	<.0001
	Wind Speed	1.0173	1.73	[1.0161-1.0185]	<.0001	1.0340	3.40	[1.0245-1.0434]	<.0001
	Daily Snow	1.0030	0.30	[1.0024-1.0037]	<.0001	1.0017	0.17	[0.9961-1.0073]	0.1469
	$PM_{2.5}$	1.0012	0.12	[1.0011-1.0014]	<.0001	1.0021	0.21	[1.0010-1.0031]	<.0001
Lag 6	Avg. Temp.	1.0146	1.46	[1.0145-1.0147]	<.0001	1.0206	2.06	[1.0198-1.0215]	<.0001
	Daily Rain	1.0014	0.14	[1.0013-1.0015]	<.0001	1.0006	0.06	[0.9999-1.0012]	0.8631
	Wind Speed	1.0124	1.24	[1.0112-1.0136]	<.0001	1.0184	1.84	[1.0090-1.0278]	<.0001
	Daily Snow	1.0026	0.26	[1.0020-1.0033]	<.0001	1.0010	0.10	[0.9954-1.0066]	0.7764
	$PM_{2.5}$	1.0010	0.10	[1.0009-1.0012]	0.0009	1.0012	0.12	[1.0002-1.0022]	0.0035

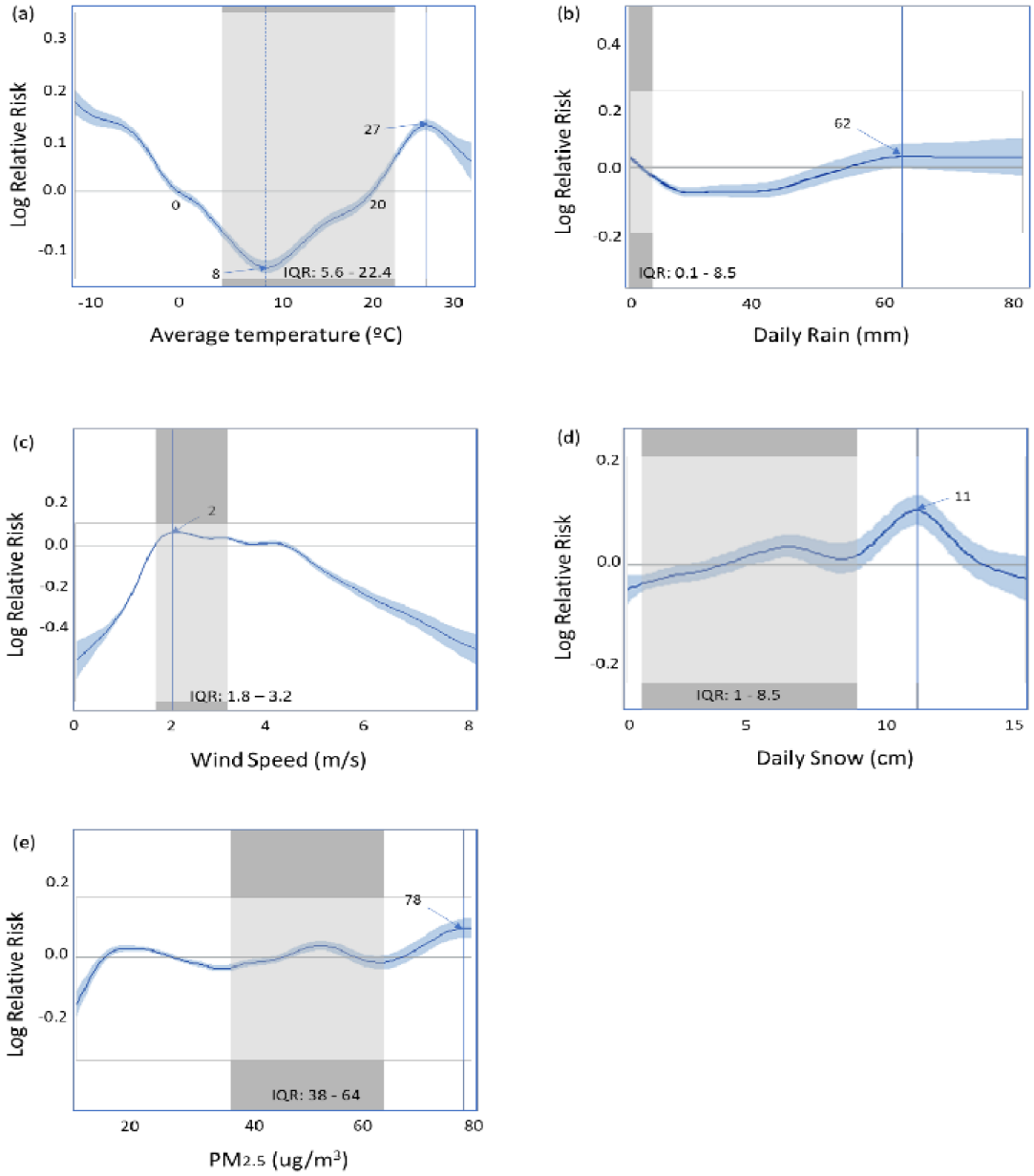
	Avg. Temp.	1.0146	1.46	[1.0145-1.0147]	<.0001	1.0205	2.05	[1.0197-1.0214]	<.0001
	Daily Rain	1.0009	0.09	[1.0007-1.0010]	0.0004	1.0002	0.02	[0.9994-1.0011]	0.7490
Lag 7	Wind Speed	1.0106	1.06	[1.0094-1.0118]	<.0001	1.0024	0.24	[0.9929-1.0118]	0.6931
	Daily Snow	1.0014	0.14	[1.0007-1.0020]	0.0012	1.0003	0.03	[0.9949-1.0057]	0.6132
	$PM_{2.5}$	1.0008	0.08	[1.0007-1.0010]	0.0011	1.0008	0.08	[0.9998-1.0018]	0.3885
Time	Variables	**Ankle**				**Foot**			
		RR	ER(%)	95% CI	P-value	RR	ER(%)	95% CI	P-value
	Avg. Temp.	1.0144	1.44	[1.0141-1.0146]	<.0001	1.0122	1.22	[1.0117-1.0126]	<.0001
	Daily Rain	1.0018	0.18	[1.0015-1.0021]	<.0001	1.0020	0.20	[1.0015-1.0025]	<.0001
Lag 0	Wind Speed	1.0210	2.10	[1.0181-1.0239]	<.0001	1.0265	2.65	[1.0215-1.0315]	<.0001
	Daily Snow	1.0115	1.15	[1.0100-1.0131]	<.0001	1.0197	1.97	[1.0166-1.0228]	<.0001
	$PM_{2.5}$	1.0026	0.26	[1.0023-1.0029]	<.0001	1.0041	0.41	[1.0036-1.0046]	<.0001
	Avg. Temp.	1.0144	1.44	[1.0143-1.0146]	<.0001	1.0122	1.22	[1.0118-1.0127]	<.0001
	Daily Rain	1.0015	0.15	[1.0013-1.0016]	<.0001	1.0009	0.09	[1.0004-1.0013]	0.0022
Lag 1	Wind Speed	1.0257	2.57	[1.0241-1.0273]	<.0001	1.0358	3.58	[1.0309-1.0407]	<.0001
	Daily Snow	1.0119	1.19	[1.0110-1.0128]	<.0001	1.0199	1.99	[1.0168-1.0229]	<.0001
	$PM_{2.5}$	1.0027	0.27	[1.0026-1.0029]	<.0001	1.0044	0.44	[1.0039-1.0049]	<.0001
	Avg. Temp.	1.0144	1.44	[1.0143-1.0146]	<.0001	1.0123	1.23	[1.0118-1.0127]	<.0001
	Daily Rain	1.0017	0.17	[1.0016-1.0019]	<.0001	1.0012	0.12	[1.0008-1.0016]	0.0031
Lag 2	Wind Speed	1.0280	2.80	[1.0264-1.0296]	<.0001	1.0360	3.60	[1.0312-1.0409]	<.0001
	Daily Snow	1.0105	1.05	[1.0096-1.0114]	<.0001	1.0124	1.24	[1.0091-1.0158]	<.0001
	$PM_{2.5}$	1.0030	0.30	[1.0028-1.0032]	<.0001	1.0037	0.37	[1.0032-1.0042]	<.0001
	Avg. Temp.	1.0143	1.43	[1.0141-1.0145]	<.0001	1.0122	1.22	[1.0118-1.0127]	<.0001
	Daily Rain	1.0016	0.16	[1.0014-1.0017]	<.0001	1.0010	0.10	[1.0006-1.0014]	0.0032
Lag 3	Wind Speed	1.0280	2.80	[1.0264-1.0296]	<.0001	1.0350	3.50	[1.0301-1.0399]	<.0001
	Daily Snow	1.0079	0.79	[1.0070-1.0089]	<.0001	1.0069	0.69	[1.0034-1.0104]	<.0001
	$PM_{2.5}$	1.0032	0.32	[1.0030-1.0034]	<.0001	1.0032	0.32	[1.0027-1.0038]	<.0001
Lag 4	Avg. Temp.	1.0142	1.42	[1.0140-1.0143]	<.0001	1.0122	1.22	[1.0117-1.0127]	<.0001
	Daily Rain	1.0020	0.20	[1.0019-1.0022]	<.0001	1.0015	0.15	[1.0010-1.0019]	<.0001
	Wind Speed	1.0207	2.07	[1.0190-1.0223]	<.0001	1.0303	3.03	[1.0254-1.0352]	<.0001
	Daily Snow	1.0058	0.58	[1.0048-1.0067]	<.0001	1.0007	0.07	[0.9971-1.0044]	0.4638

	$PM_{2.5}$	1.0027	0.27	[1.0025-1.0029]	<.0001	1.0017	0.17	[1.0012-1.0023]	<.0001
Lag 5	Avg. Temp.	1.0144	1.44	[1.0143-1.0146]	<.0001	1.0123	1.23	[1.0119-1.0128]	<.0001
	Daily Rain	1.0019	0.19	[1.0018-1.0021]	<.0001	1.0012	0.12	[1.0008-1.0016]	0.0029
	Wind Speed	1.0200	2.00	[1.0183-1.0216]	<.0001	1.0248	2.48	[1.0198-1.0297]	<.0001
	Daily Snow	1.0016	0.16	[1.0006-1.0027]	0.0004	1.0013	0.13	[0.9971-1.0055]	0.3975
	$PM_{2.5}$	1.0019	0.19	[1.0017-1.0021]	<.0001	1.0013	0.13	[1.0008-1.0019]	<.0001
Lag 6	Avg. Temp.	1.0145	1.45	[1.0144-1.0147]	<.0001	1.0126	1.26	[1.0121-1.0130]	<.0001
	Daily Rain	1.0016	0.16	[1.0015-1.0017]	<.0001	1.0006	0.06	[1.0002-1.0010]	0.0015
	Wind Speed	1.0189	1.89	[1.0173-1.0205]	<.0001	1.0230	2.30	[1.0181-1.0279]	<.0001
	Daily Snow	1.0011	0.11	[1.0001-1.0022]	0.0010	1.0011	0.11	[0.9970-1.0053]	0.6470
	$PM_{2.5}$	1.0014	0.14	[1.0012-1.0015]	<.0001	1.0011	0.11	[1.0006-1.0017]	0.0041
Lag 7	Avg. Temp.	1.0146	1.46	[1.0144-1.0147]	<.0001	1.0127	1.27	[1.0122-1.0131]	<.0001
	Daily Rain	1.0011	0.11	[1.0010-1.0013]	<.0001	1.0004	0.04	[1.0000-1.0008]	0.0673
	Wind Speed	1.0156	1.56	[1.0139-1.0172]	<.0001	1.0137	1.37	[1.0088-1.0186]	<.0001
	Daily Snow	1.0008	0.08	[0.9998-1.0018]	0.7763	1.0008	0.08	[0.9969-1.0047]	0.5796
	$PM_{2.5}$	1.0005	0.05	[1.0003-1.0006]	0.0015	1.0001	0.01	[0.9995-1.0006]	0.4159

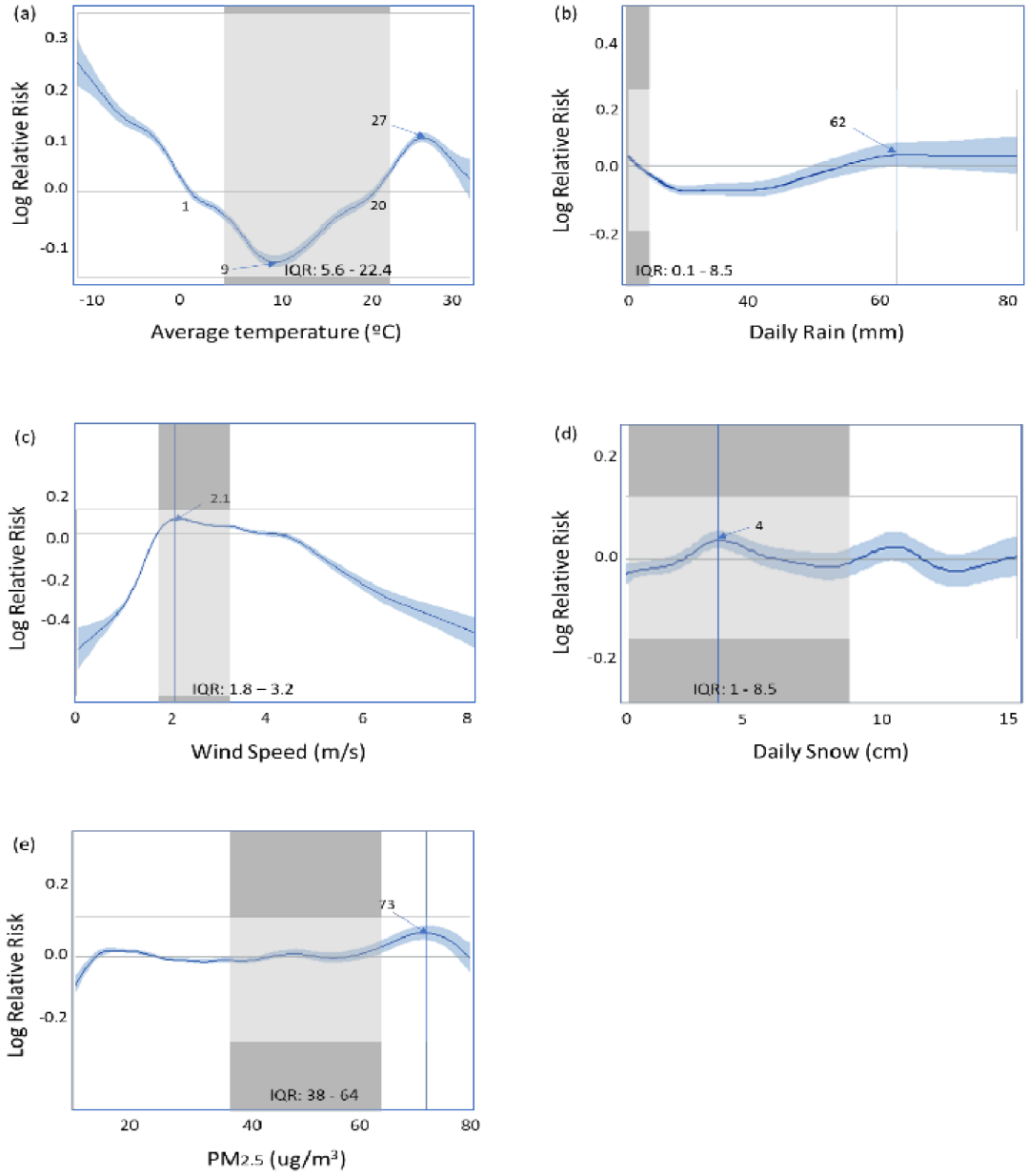
Time	Variables	**Spine**			
		RR	ER(%)	95% CI	P-value
Lag 0	Avg. Temp.	1.0101	1.01	[1.0099-1.0104]	<.0001
	Daily Rain	1.0010	0.10	[1.0007-1.0012]	<.0001
	Wind Speed	1.0209	2.09	[1.0183-1.0234]	<.0001
	Daily Snow	1.0087	0.87	[1.0069-1.0105]	<.0001
	$PM_{2.5}$	1.0025	0.25	[1.0022-1.0027]	<.0001
Lag 1	Avg. Temp.	1.0101	1.01	[1.0100-1.0102]	<.0001
	Daily Rain	1.0007	0.07	[1.0006-1.0008]	<.0001
	Wind Speed	1.0214	2.14	[1.0203-1.0225]	<.0001
	Daily Snow	1.0085	0.85	[1.0078-1.0093]	<.0001
	$PM_{2.5}$	1.0025	0.25	[1.0024-1.0026]	<.0001
Lag 2	Avg. Temp.	1.0102	1.02	[1.0101-1.0103]	<.0001
	Daily Rain	1.0008	0.08	[1.0007-1.0008]	<.0001
	Wind Speed	1.0234	2.34	[1.0223-1.0245]	<.0001

	Daily Snow	1.0077	0.77	[1.0070-1.0085]	<.0001
	$PM_{2.5}$	1.0021	0.21	[1.0020-1.0023]	<.0001
Lag 3	Avg. Temp.	1.0102	1.02	[1.0101-1.0103]	<.0001
	Daily Rain	1.0008	0.08	[1.0007-1.0009]	<.0001
	Wind Speed	1.0230	2.30	[1.0220-1.0241]	<.0001
	Daily Snow	1.0056	0.56	[1.0048-1.0063]	<.0001
	$PM_{2.5}$	1.0020	0.20	[1.0019-1.0021]	<.0001
Lag 4	Avg. Temp.	1.0102	1.02	[1.0101-1.0103]	<.0001
	Daily Rain	1.0009	0.09	[1.0008-1.0010]	<.0001
	Wind Speed	1.0205	2.05	[1.0194-1.0216]	<.0001
	Daily Snow	1.0046	0.46	[1.0038-1.0054]	<.0001
	$PM_{2.5}$	1.0016	0.16	[1.0015-1.0017]	<.0001
Lag 5	Avg. Temp.	1.0103	1.03	[1.0102-1.0104]	<.0001
	Daily Rain	1.0009	0.09	[1.0008-1.0010]	<.0001
	Wind Speed	1.0176	1.76	[1.0165-1.0187]	<.0001
	Daily Snow	1.0005	0.05	[0.9996-1.0013]	0.6304
	$PM_{2.5}$	1.0015	0.15	[1.0014-1.0016]	<.0001
Lag 6	Avg. Temp.	1.0103	1.03	[1.0101-1.0104]	<.0001
	Daily Rain	1.0008	0.08	[1.0007-1.0009]	<.0001
	Wind Speed	1.0105	1.05	[1.0094-1.0116]	<.0001
	Daily Snow	1.0003	0.03	[0.9995-1.0012]	0.7136
	$PM_{2.5}$	1.0012	0.12	[1.0011-1.0014]	<.0001
Lag 7	Avg. Temp.	1.0103	1.03	[1.0102-1.0105]	<.0001
	Daily Rain	1.0004	0.04	[1.0003-1.0005]	0.0042
	Wind Speed	1.0003	0.03	[0.9992-1.0013]	0.1597
	Daily Snow	1.0001	0.01	[0.9993-1.0009]	0.8279
	$PM_{2.5}$	1.0002	0.02	[1.0001-1.0003]	0.0089

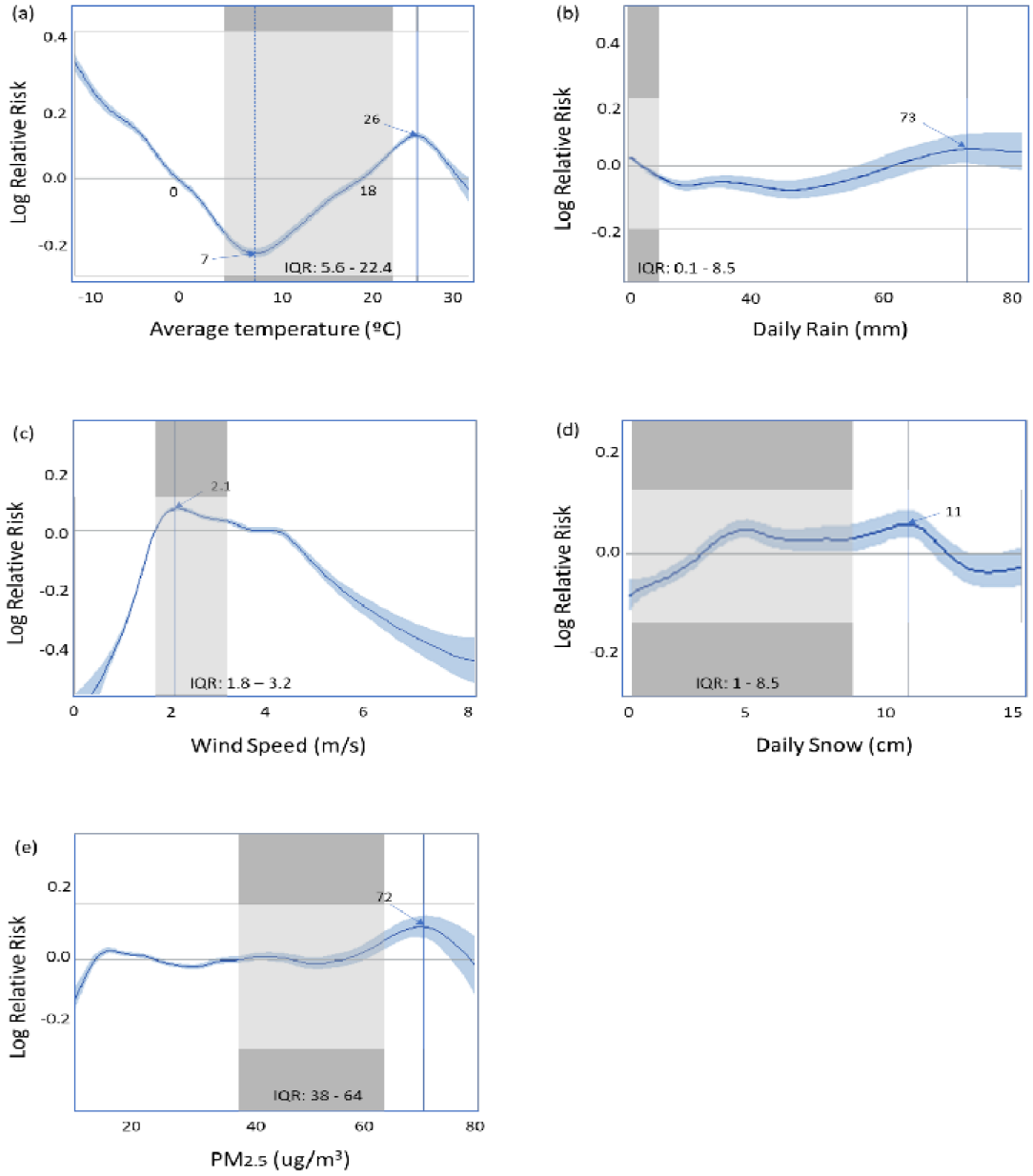
Supplemental Figure 1. Generalized additive model for the effects of selected meteorological factors on the incidence of knee fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The bold line estimates the relative effect sizes for knee fracture, and the blue area estimates 95% confidence intervals (CIs).The X-axis represents selected meteorological factors. The Y-axes show the relative effect sizes for knee fracture. $PM_{2.5}$, particulate matter ≤ 2.5 μm.



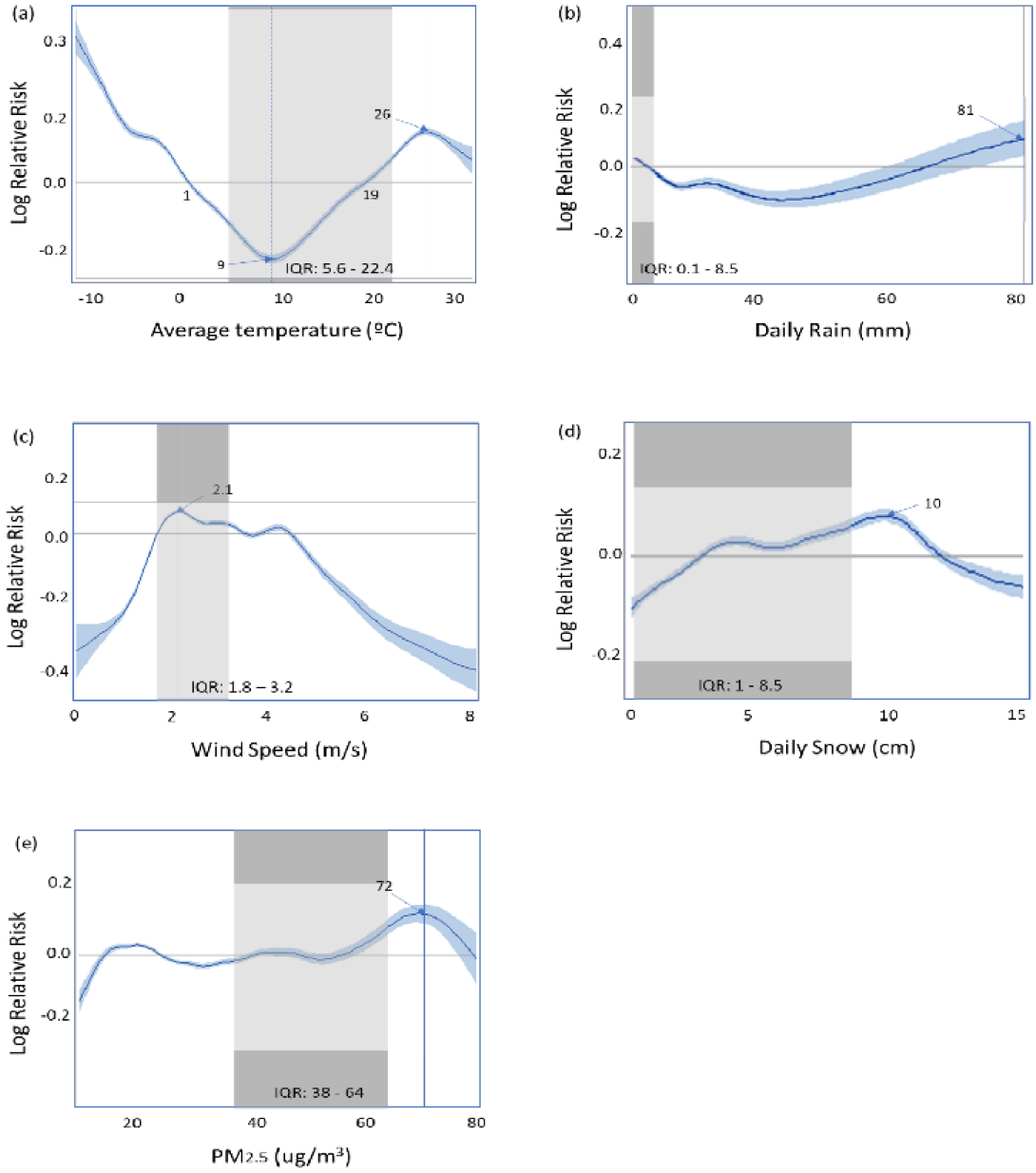
Supplemental Figure 2. Generalized additive model for the effects of selected meteorological factors on the incidence of shoulder fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The bold line estimates the relative effect sizes for shoulder fracture, and the blue area estimates 95% confidence intervals (CIs). The X-axis represents selected meteorological factors. The Y-axes show the relative effect sizes for shoulder fracture. $PM_{2.5}$, particulate matter ≤ 2.5 μm.



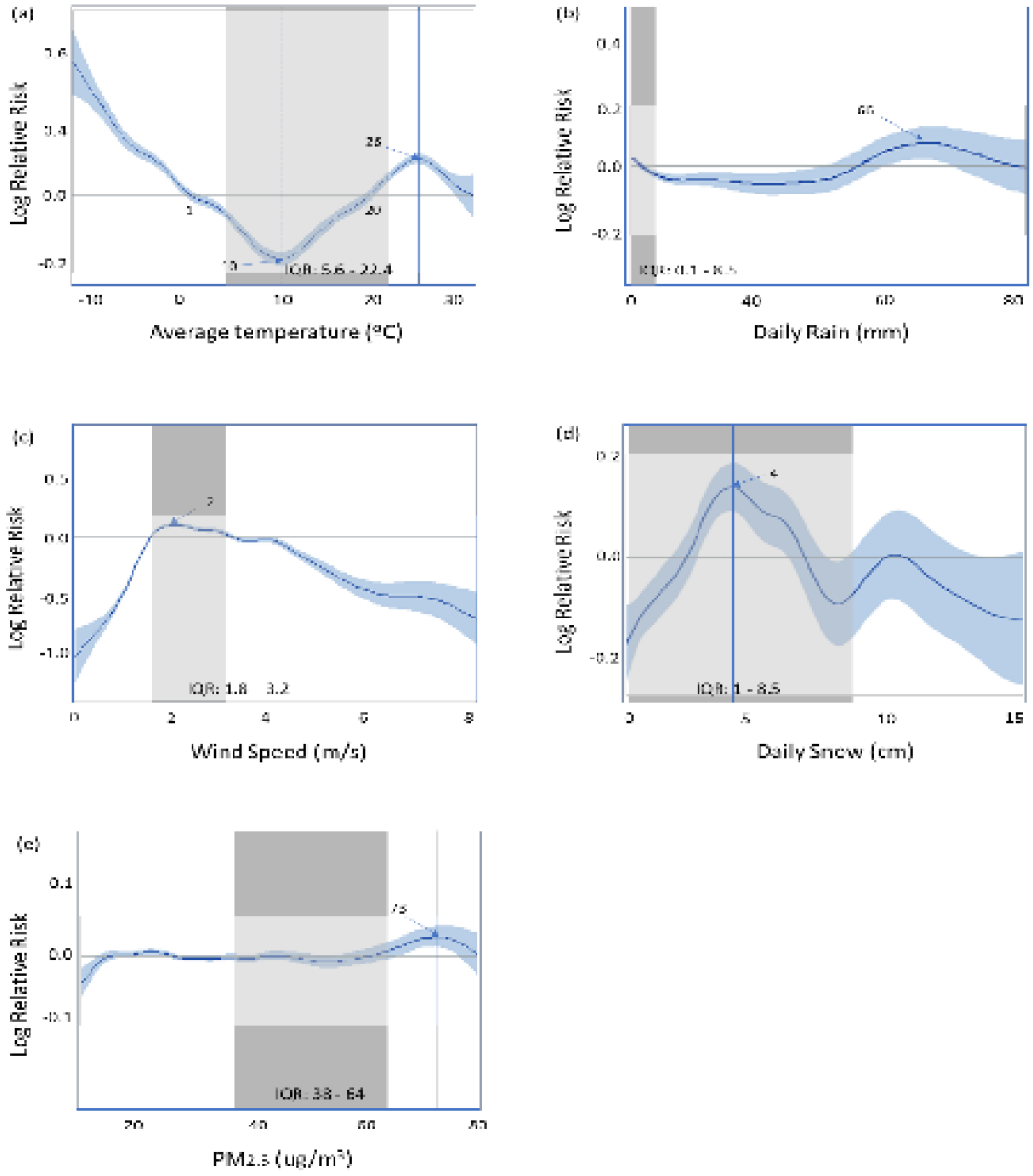
Supplemental Figure 3. Generalized additive model for the effects of selected meteorological factors on the incidence of elbow fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The bold line estimates the relative effect sizes for elbow fracture, and the blue area estimates 95% confidence intervals (CIs). The X-axis represents selected meteorological factors. The Y-axes show the relative effect sizes for elbow fracture. $PM_{2.5}$, particulate matter ≤ 2.5 μm.



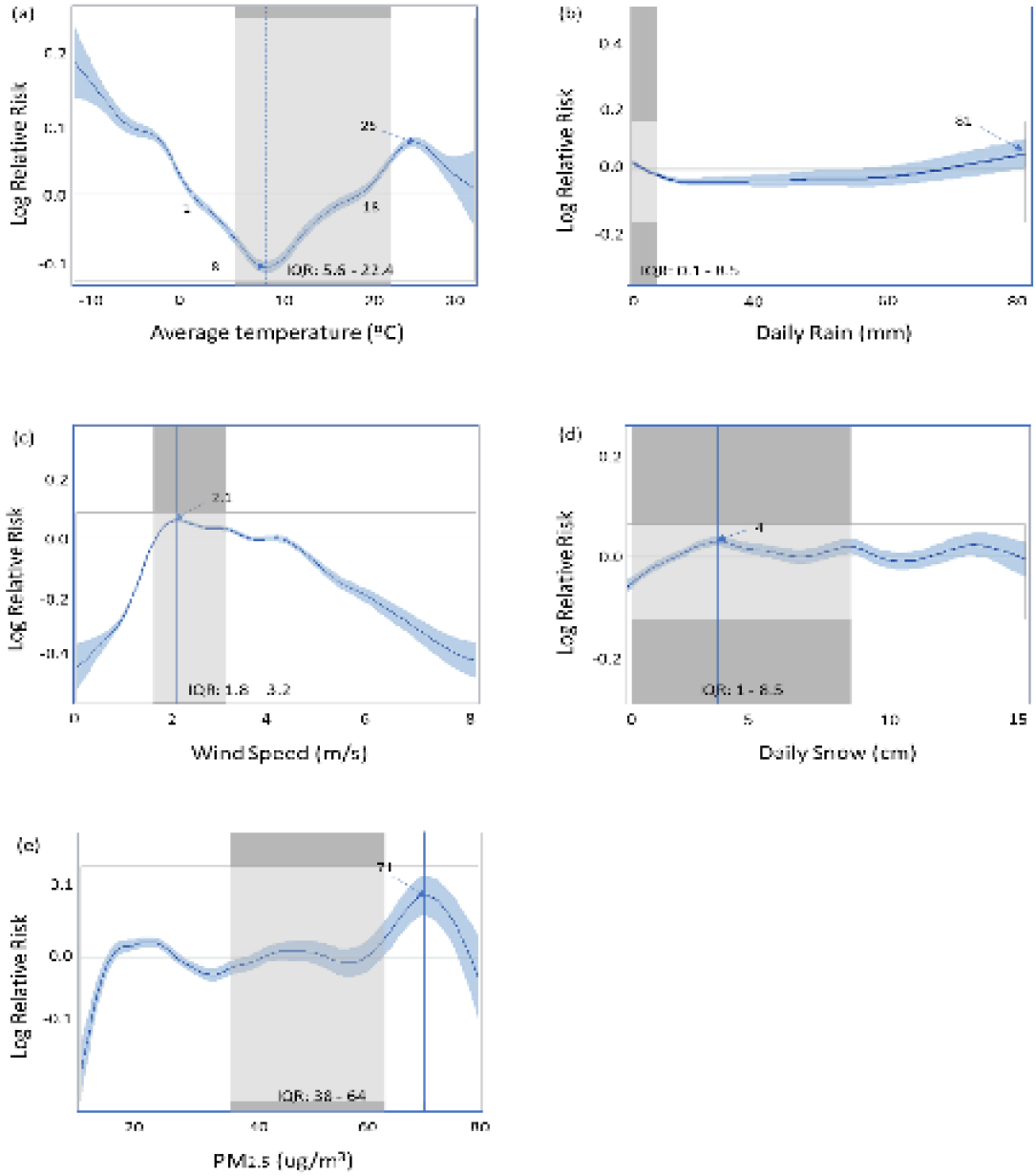
Supplemental Figure 4. Generalized additive model for the effects of selected meteorological factors on the incidence of wrist fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The bold line estimates the relative effect sizes for wrist fracture, and the blue area estimates 95% confidence intervals (CIs). The X-axis represents selected meteorological factors. The Y-axes show the relative effect sizes for wrist fracture. $PM_{2.5}$, particulate matter ≤ 2.5 μm.



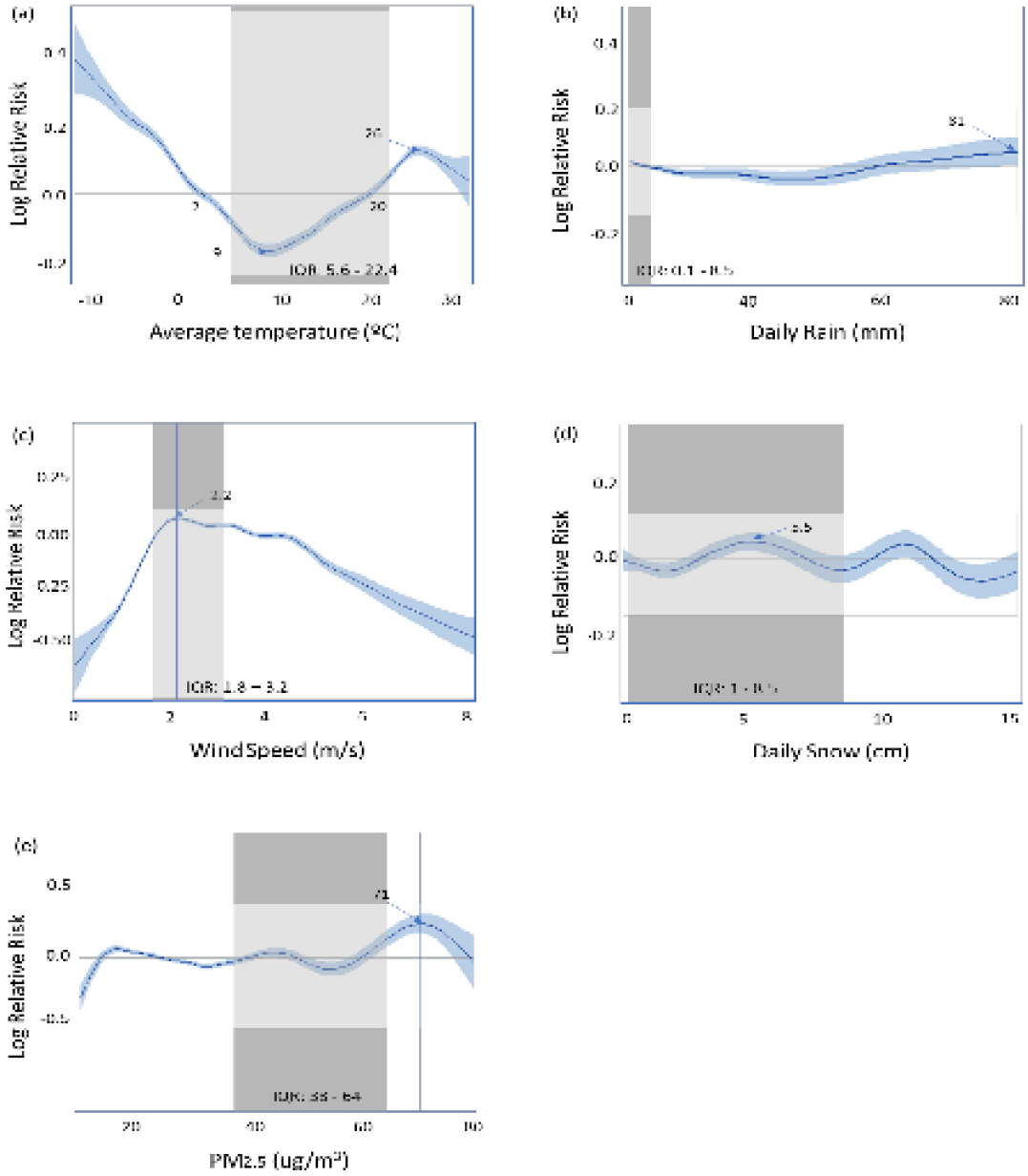
Supplemental Figure 5. Generalized additive model for the effects of selected meteorological factors on the incidence of hand fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The bold line estimates the relative effect sizes for hand fracture, and the blue area estimates 95% confidence intervals (CIs). The X-axis represents selected meteorological factors. The Y-axes show the relative effect sizes for hand fracture. $PM_{2.5}$, particulate matter ≤ 2.5 μm.



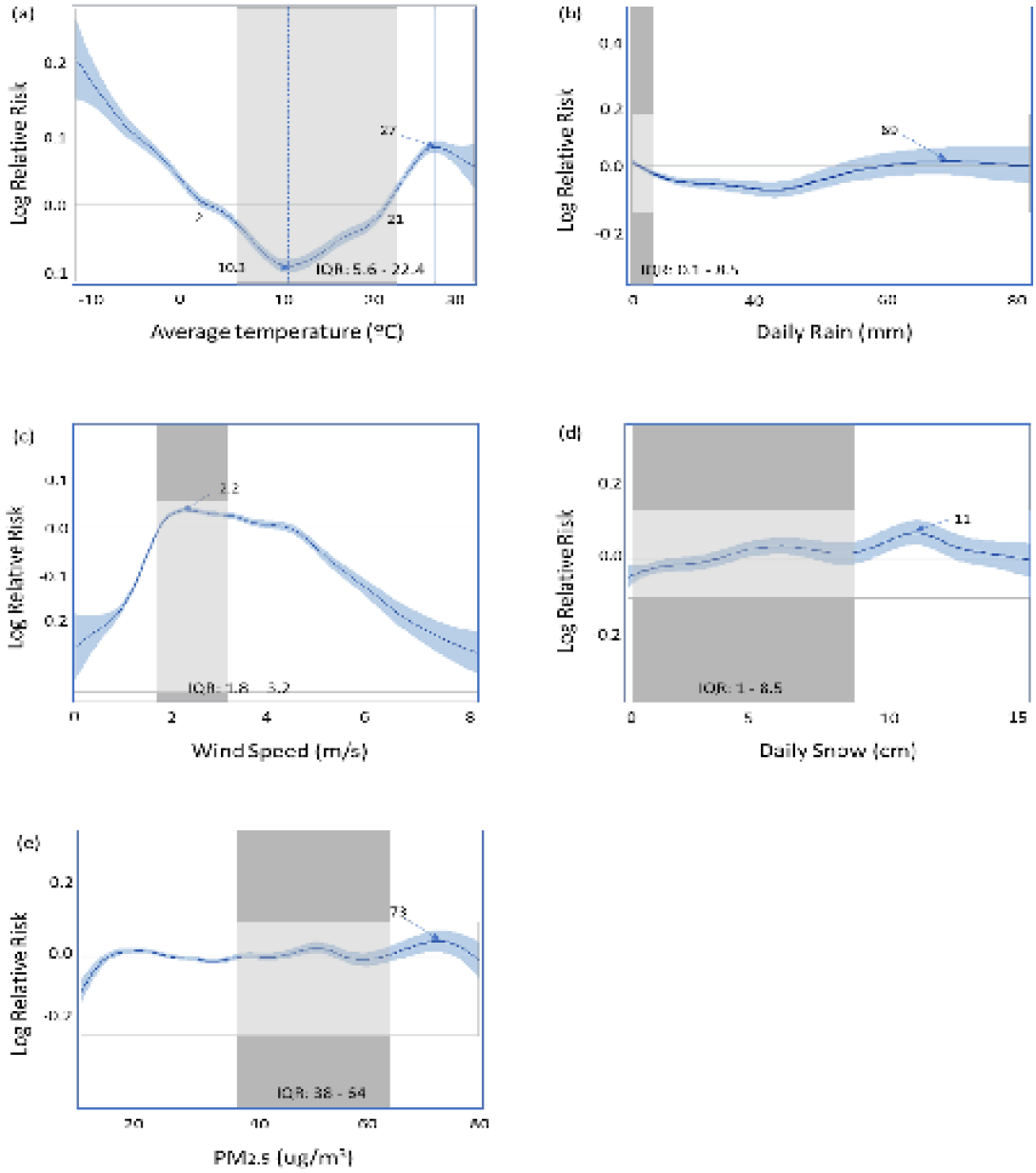
Supplemental Figure 6. Generalized additive model for the effects of selected meteorological factors on the incidence of ankle fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The bold line estimates the relative effect sizes for ankle fracture, and the blue area estimates 95% confidence intervals (CIs). The X-axis represents selected meteorological factors. The Y-axes show the relative effect sizes for ankle fracture. $PM_{2.5}$, particulate matter ≤ 2.5 μm.



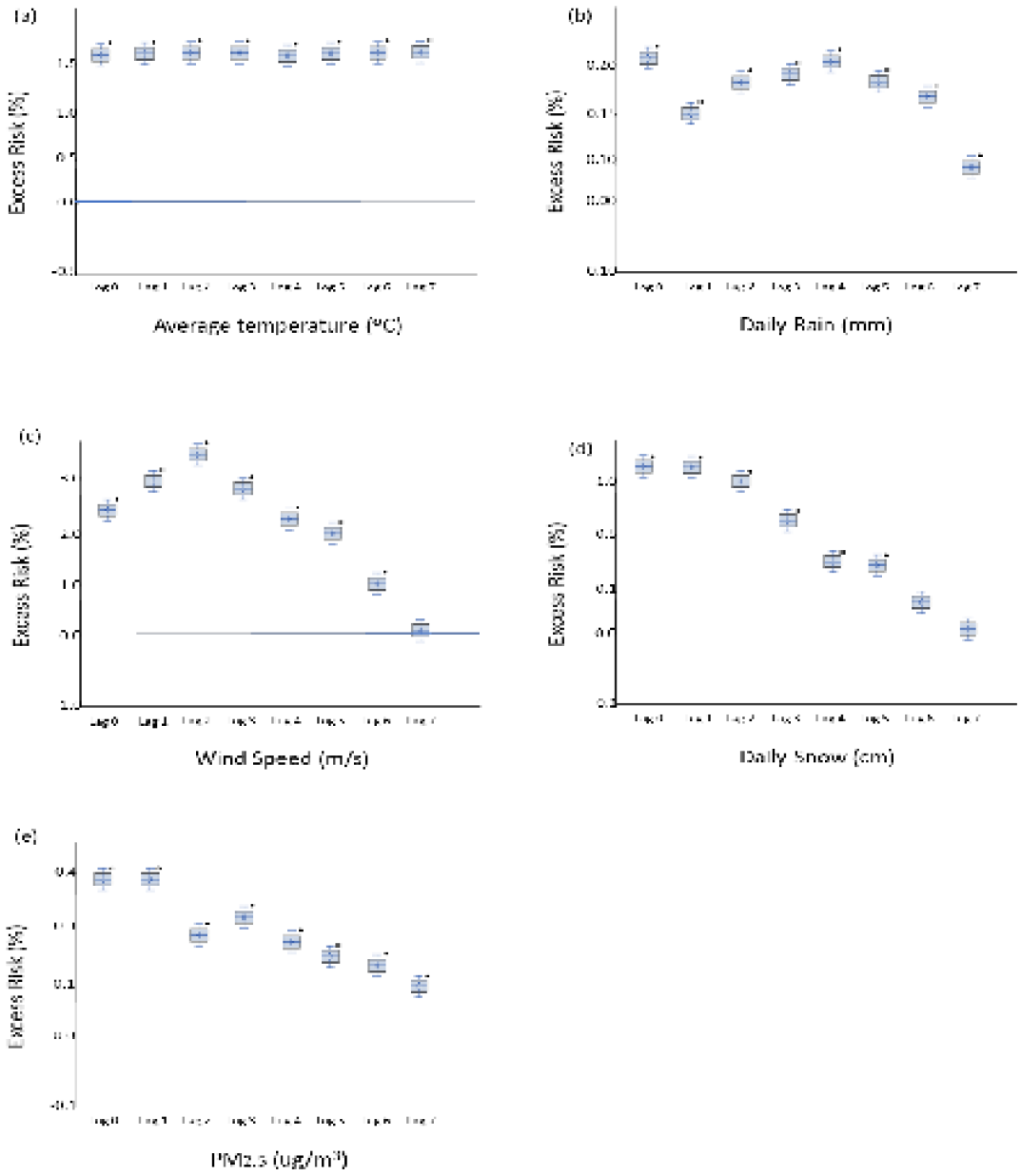
Supplemental Figure 7. Generalized additive model for the effects of selected meteorological factors on the incidence of foot fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The bold line estimates the relative effect sizes for foot fracture, and the blue area estimates 95% confidence intervals (CIs). The X-axis represents selected meteorological factors. The Y-axes show the relative effect sizes for foot fracture. $PM_{2.5}$, particulate matter ≤ 2.5 μm.



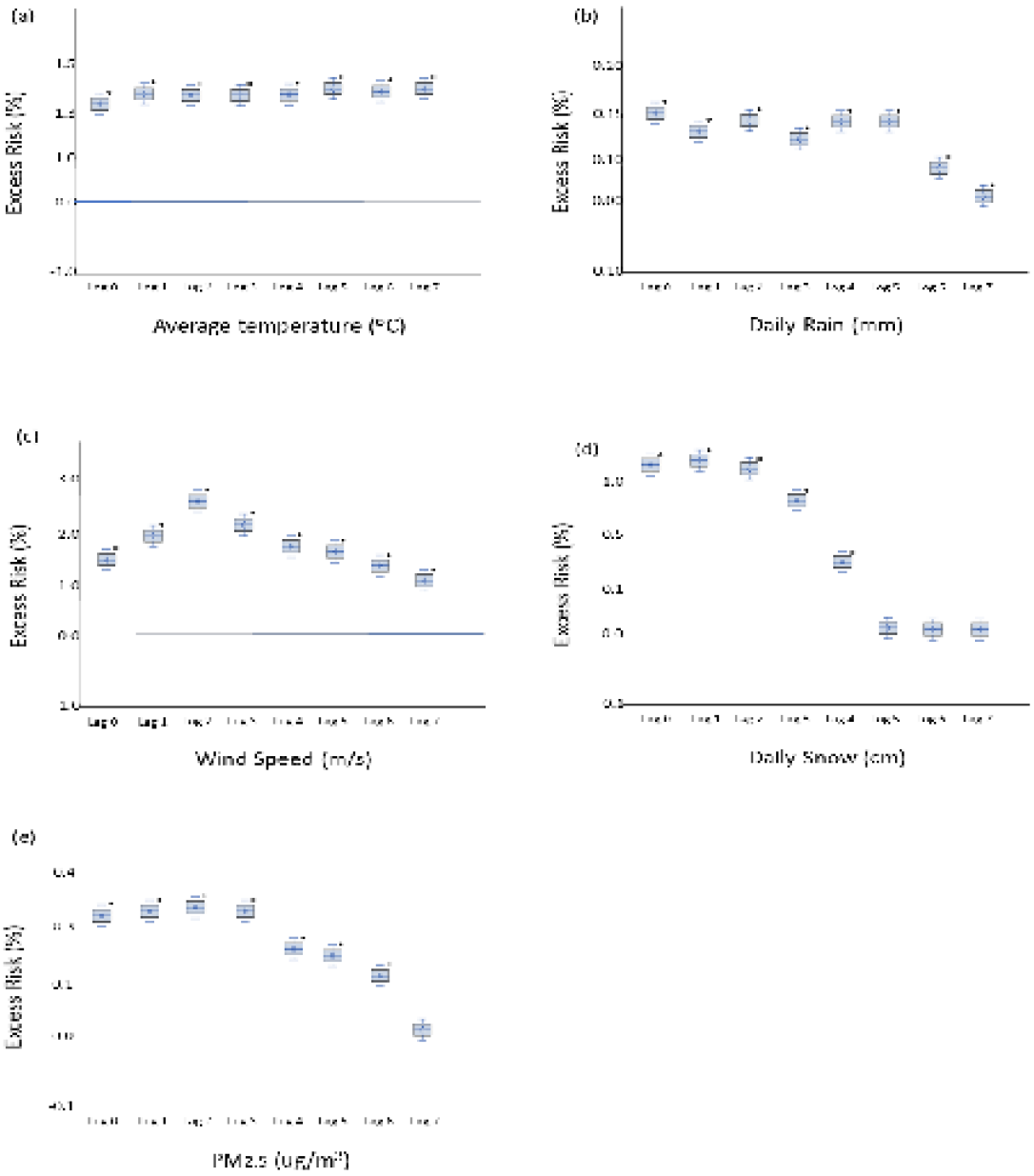
Supplemental Figure 8. Generalized additive model for the effects of selected meteorological factors on the incidence of spine fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The bold line estimates the relative effect sizes for spine fracture, and the blue area estimates 95% confidence intervals (CIs). The X-axis represents selected meteorological factors. The Y-axes show the relative effect sizes for spine fracture. $PM_{2.5}$, particulate matter ≤ 2.5 μm.



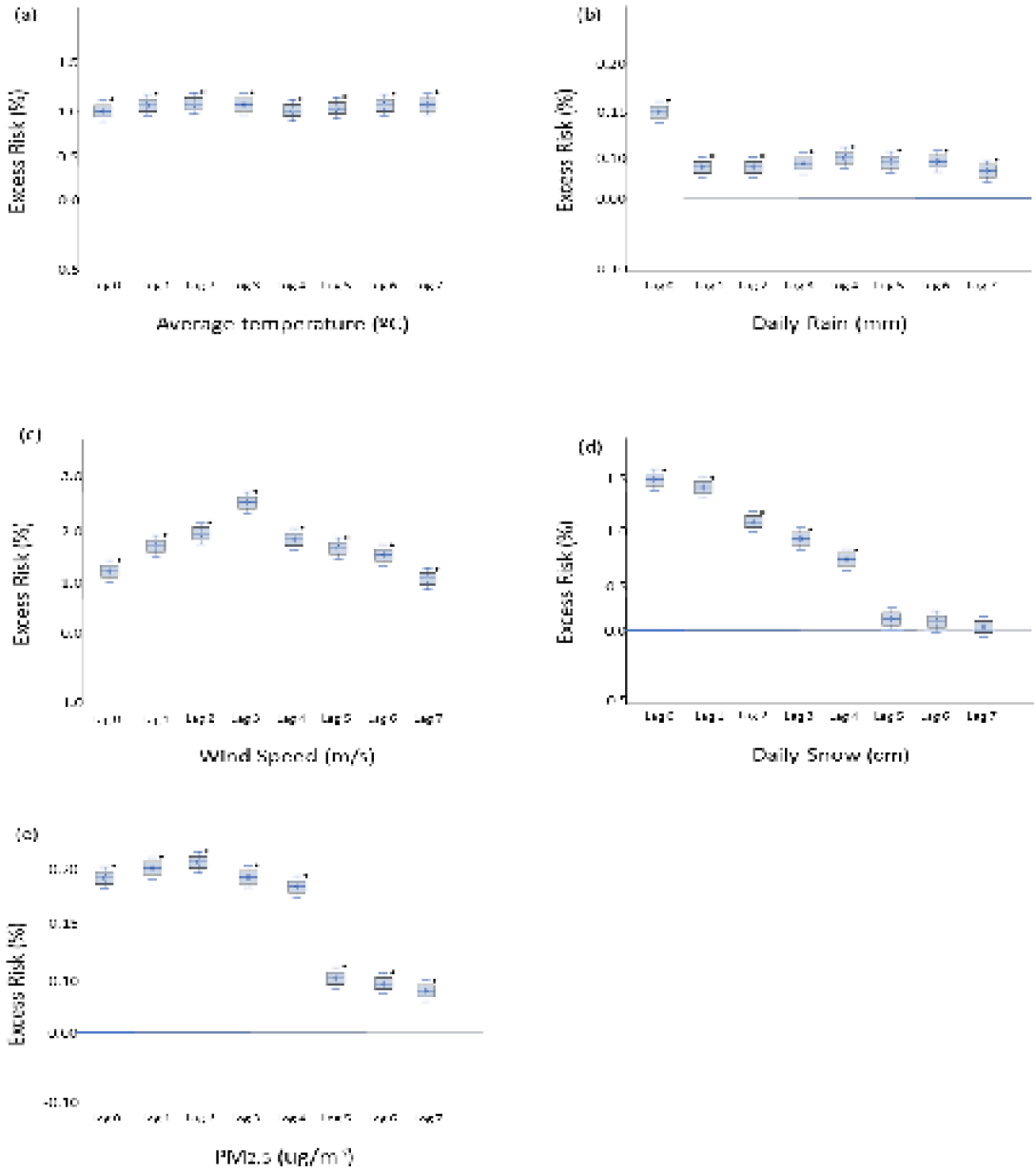
Supplemental Figure 9. Levels of the selected meteorological factors and adjusted excess risks of the knee fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The Y-axes show the percentages of the adjusted excess risks with 95% confidence intervals (CIs). **P*<.05.



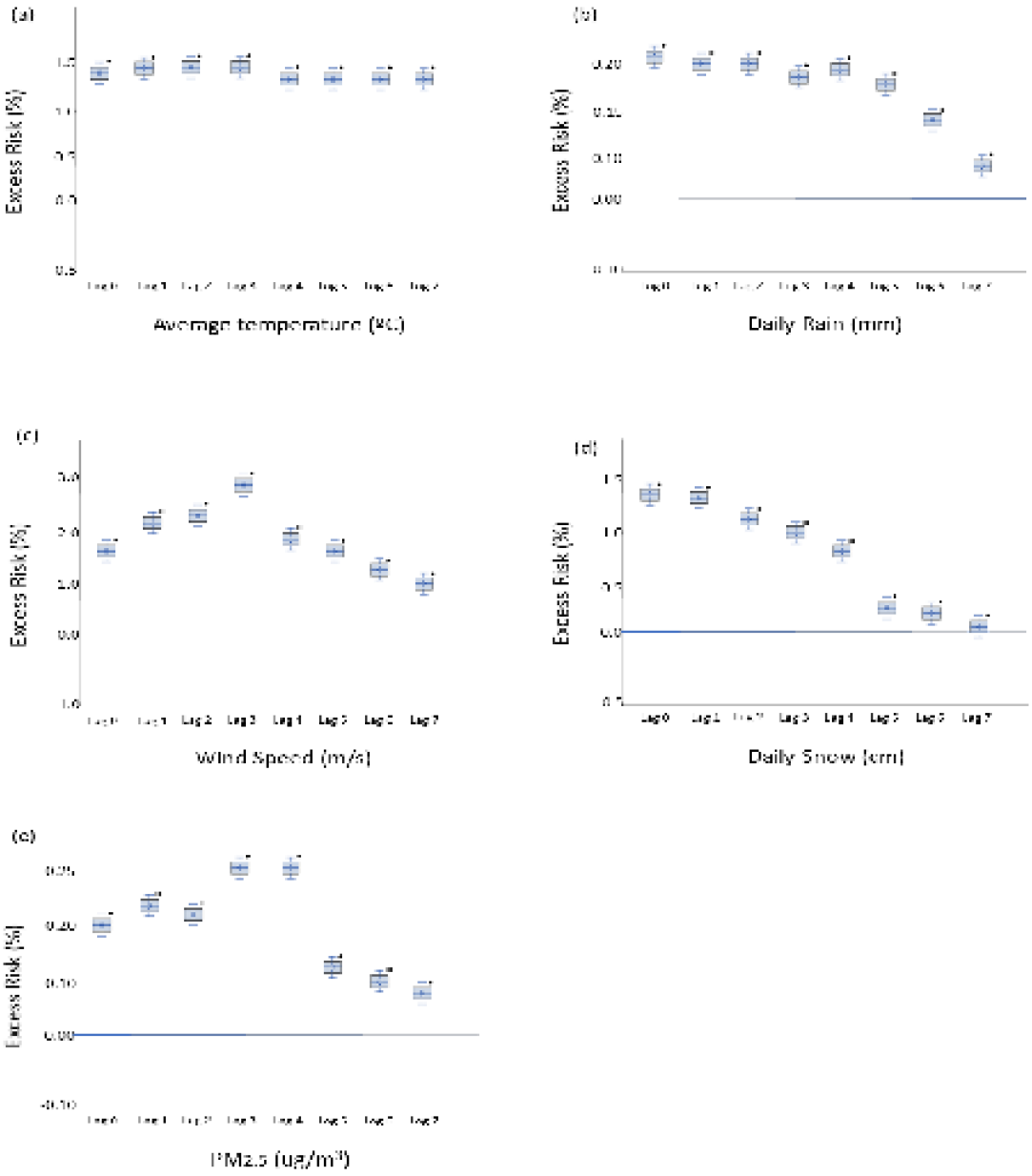
Supplemental Figure 10. Levels of the selected meteorological factors and adjusted excess risks of the shoulder fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The Y-axes show the percentages of the adjusted excess risks with 95% confidence intervals (CIs). **P*<.05.



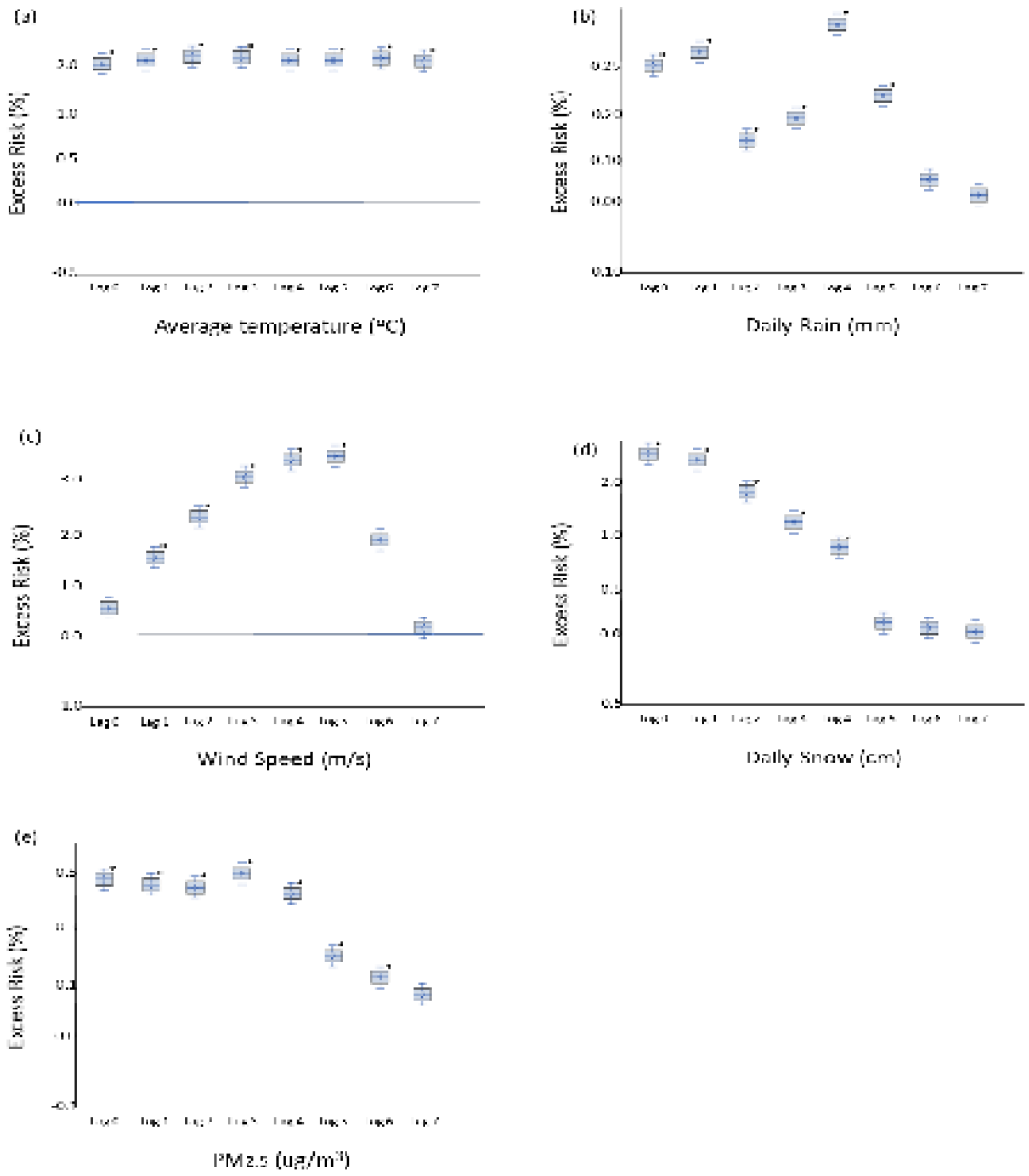
Supplemental Figure 11. Levels of the selected meteorological factors and adjusted excess risks of the elbow fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The Y-axes show the percentages of the adjusted excess risks with 95% confidence intervals (CIs). *P<.05.



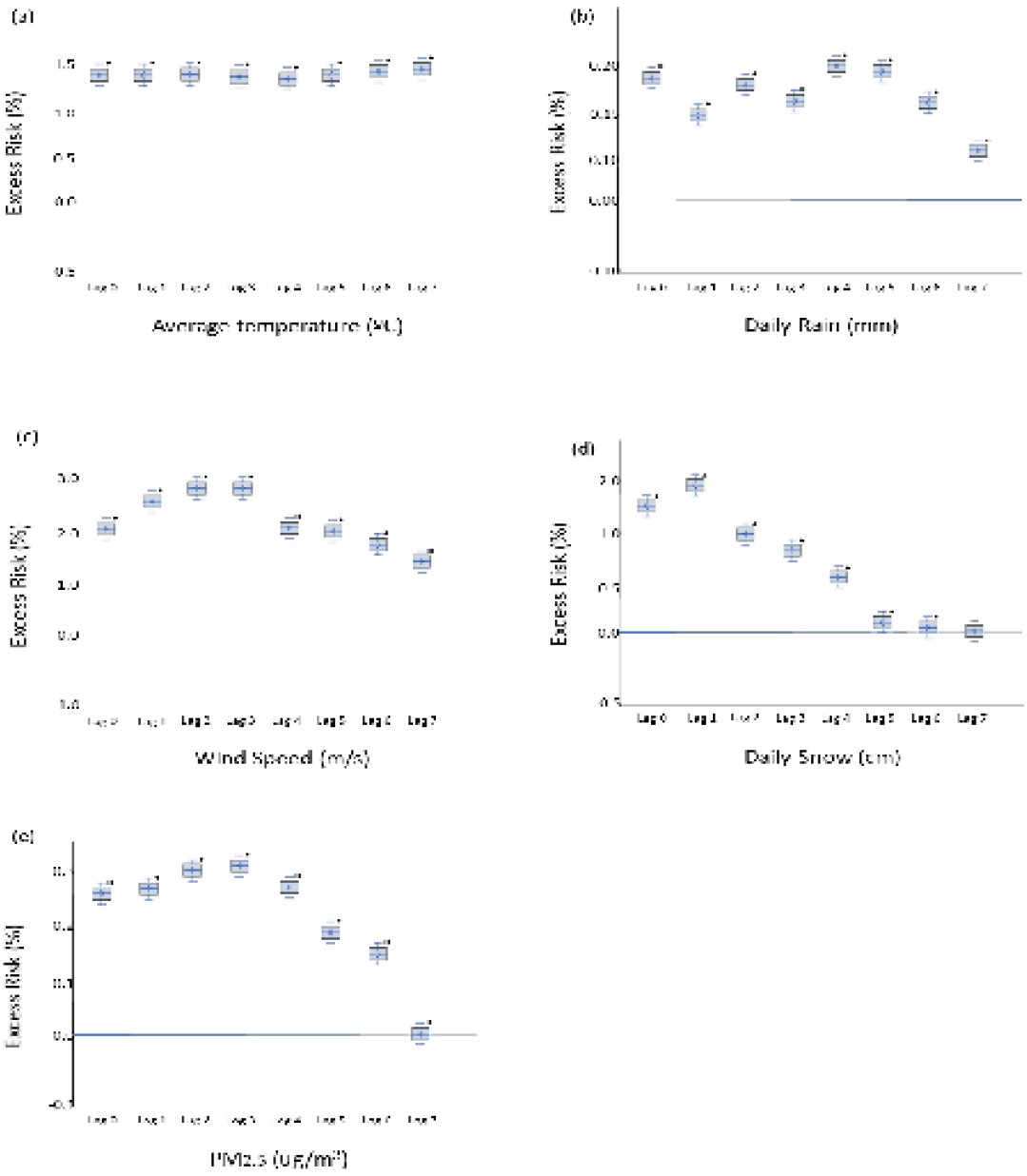
Supplemental Figure 12. Levels of the selected meteorological factors and adjusted excess risks of the wrist fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The Y-axes show the percentages of the adjusted excess risks with 95% confidence intervals (CIs). **P*<.05.



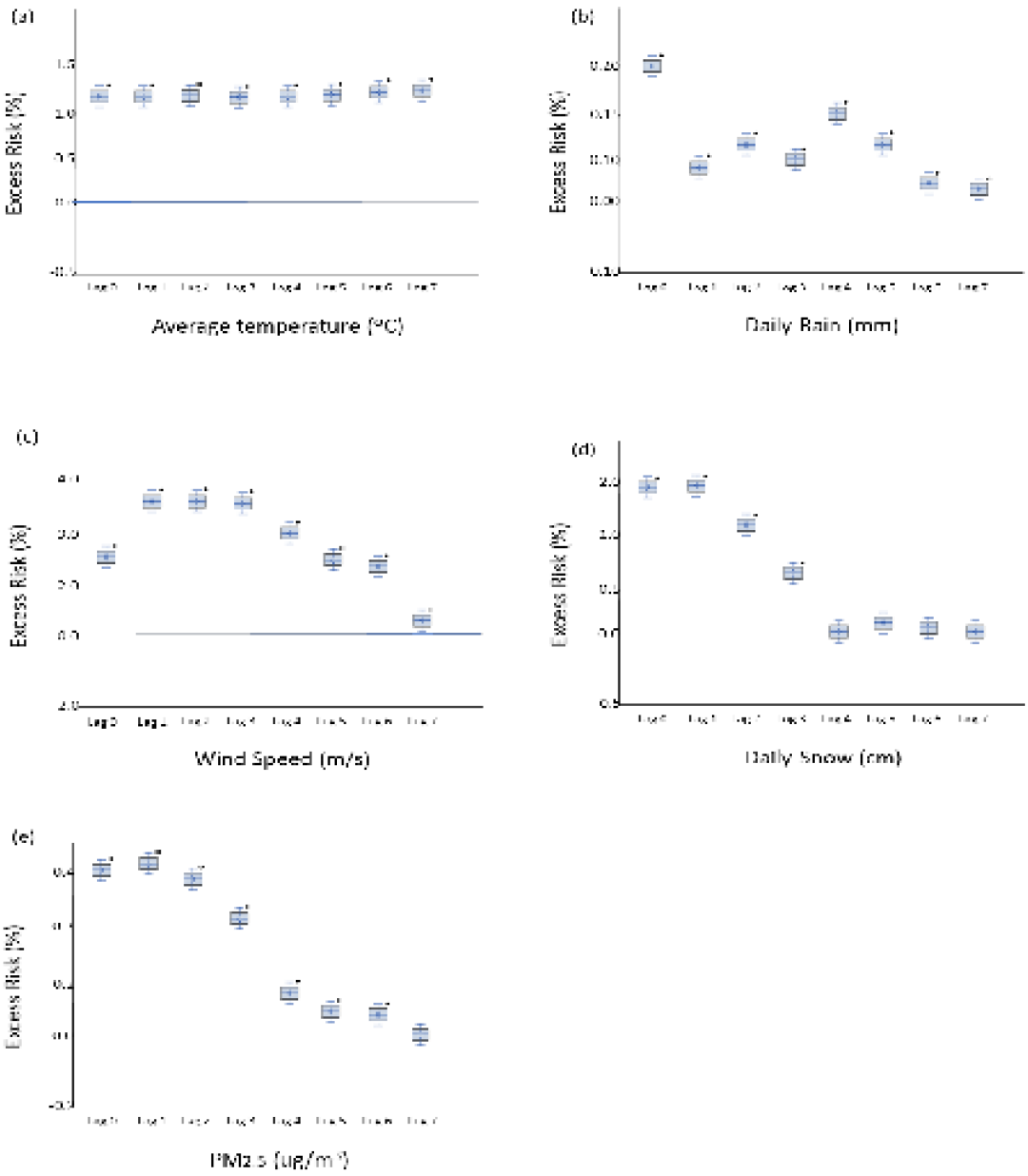
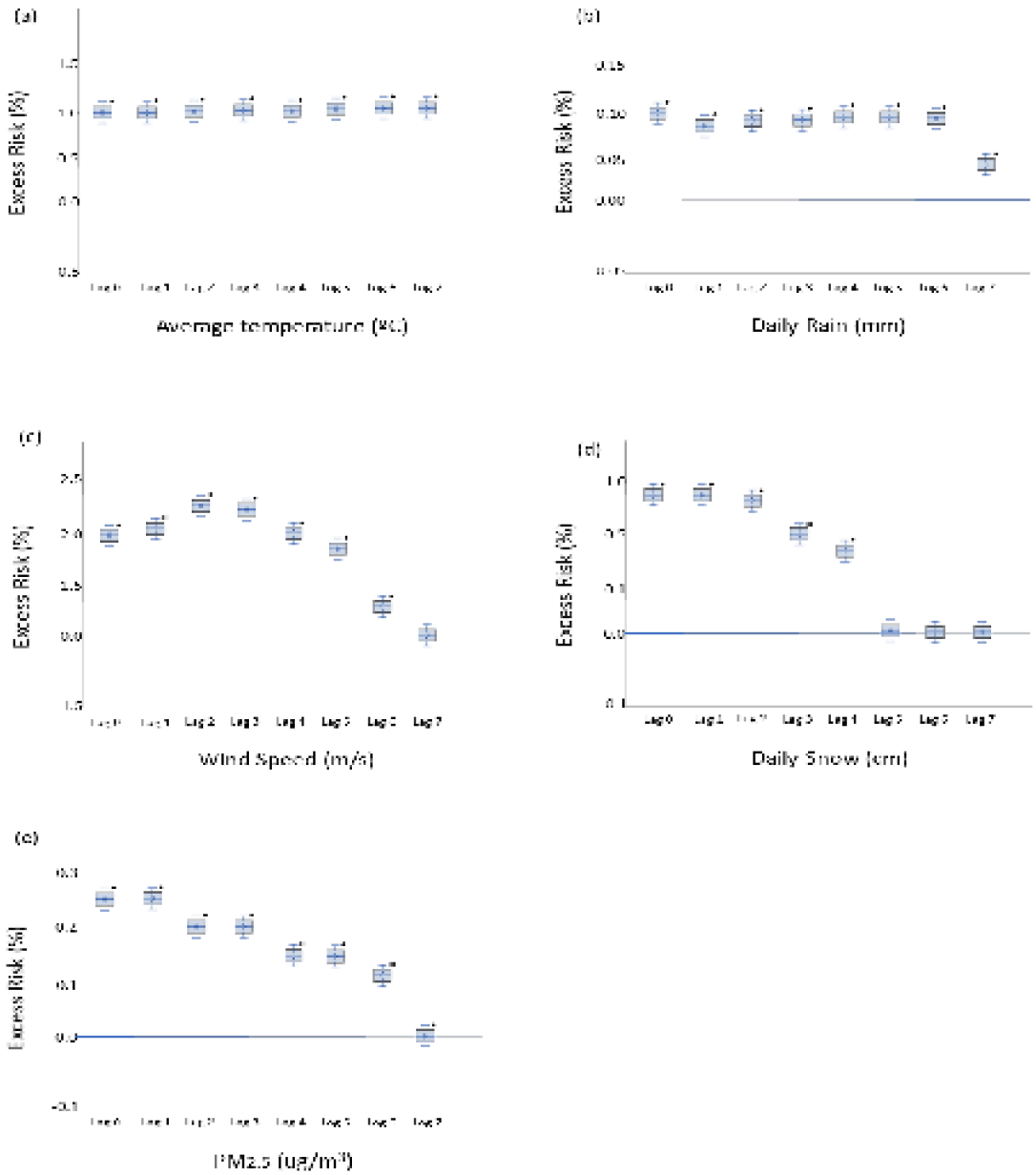
Supplemental Figure 13. Levels of the selected meteorological factors and adjusted excess risks of the hand fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The Y-axes show the percentages of the adjusted excess risks with 95% confidence intervals (CIs). *P<.05.



Supplemental Figure 14. Levels of the selected meteorological factors and adjusted excess risks of the ankle fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The Y-axes show the percentages of the adjusted excess risks with 95% confidence intervals (CIs). *P<.05.



Supplemental Figure 15. Levels of the selected meteorological factors and adjusted excess risks of the foot fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The Y-axes show the percentages of the adjusted excess risks with 95% confidence intervals (CIs). *P<.05.



Supplemental Figure 16. Levels of the selected meteorological factors and adjusted excess risks of the spine fracture by: (a) average temperature, (b) daily rain, (c) wind speed, (d) daily snow, and (e) particulate matter ≤ 2.5 μm ($PM_{2.5}$). The Y-axes show the percentages of the adjusted excess risks with 95% confidence intervals (CIs). *P<.05.