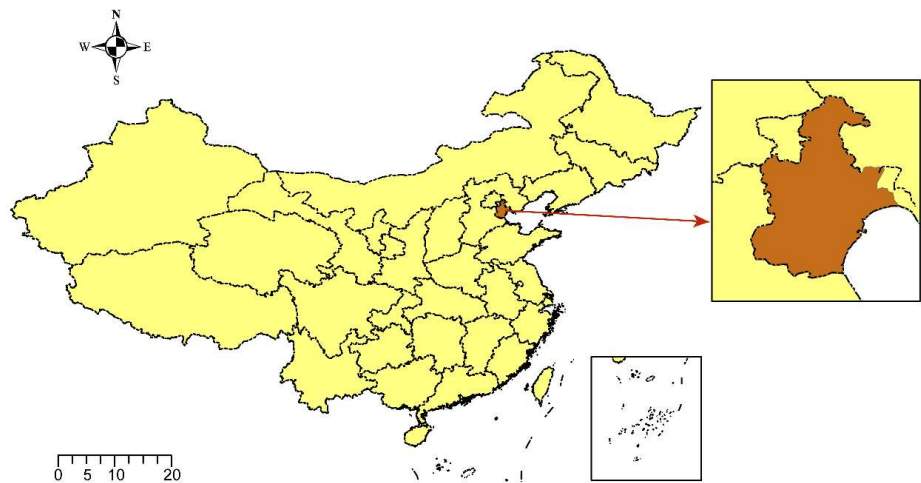


Supplemental Figure Legends

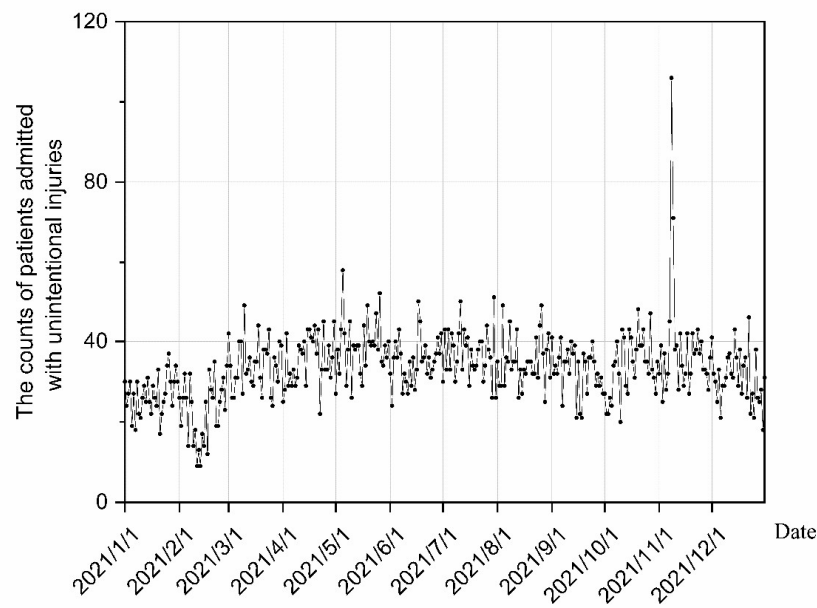
- Supplemental figure 1 The location of Tianjin
- Supplemental figure 2 Time series of daily counts of patients admitted with unintentional injuries
- Supplemental figure 3 Cumulative associations between 25th temperature and unintentional injury over 0-21 lag days according to age or gender
- Supplemental figure 4 Cumulative associations between 25th temperature and unintentional injury over 0-21 lag days according to injury mechanism or injury location

Supplemental Table Legends

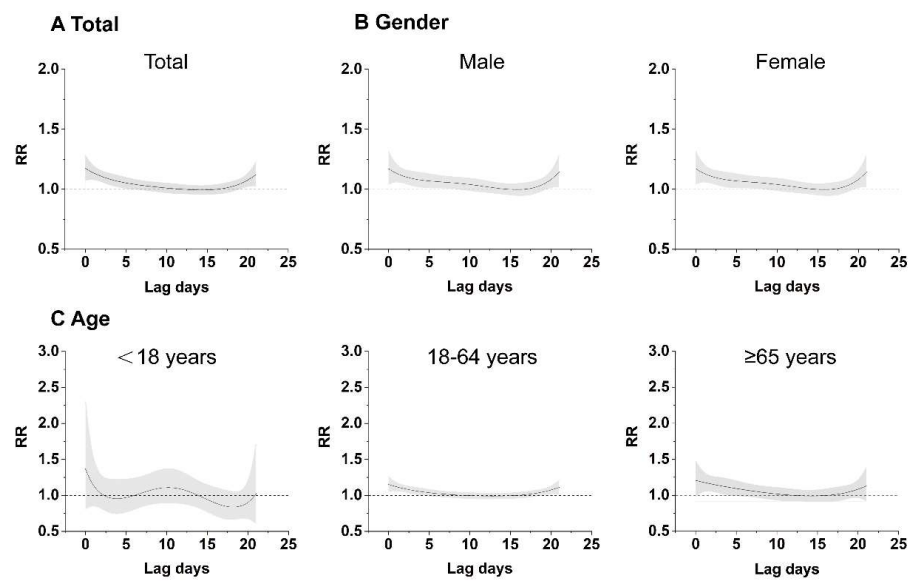
- Supplemental table 1 Correlations between the meteorological variables
- Supplemental table 2 Descriptive statistics for daily meteorological variables
- Supplemental table 3 Epidemiology of patients admitted with unintentional injuries
- Supplemental table 4 Cumulative associations between 10th temperature and unintentional injury over 0-14 lag days
- Supplemental table 5 Cumulative associations between 25th temperature and unintentional injury over 0-14 lag days
- Supplemental table 6 Cumulative associations between 10th temperature and unintentional injury over 0-28 lag days
- Supplemental table 7 Cumulative associations between 25th temperature and unintentional injury over 0-28 lag days



Supplemental figure 1 The location of Tianjin

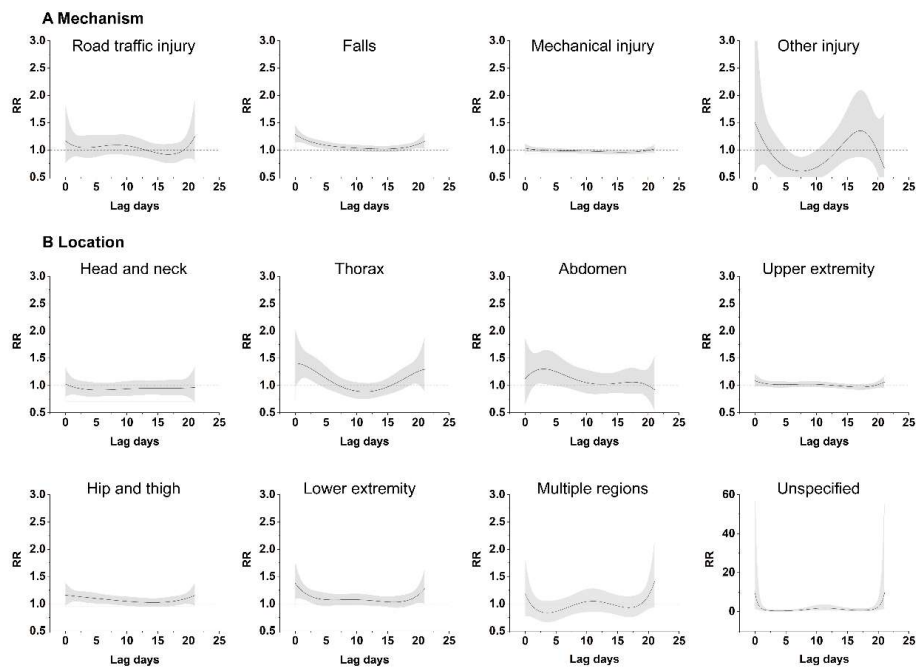


Supplemental figure 2 Time series of daily counts of patients admitted with unintentional injuries



Supplemental figure 3 Cumulative associations between 25th temperature and unintentional

injury over 0-21 lag days according to age or gender



Supplemental figure 4 Cumulative associations between 25th temperature and unintentional

injury over 0-21 lag days according to injury mechanism or injury location

Supplemental table 1 Correlations between the meteorological variables

Weather variables	Barometric pressure	Mean temperature	Max temperature	Min temperature	Relative humidity	Precipitation	Average wind velocity
Barometric pressure	1.00	-	-	-	-	-	-
Mean temperature	-0.87**	1.00	-	-	-	-	-
Max temperature	-0.85**	0.98**	1.00	-	-	-	-
Min temperature	-0.80**	0.97**	0.92**	1.00	-	-	-
Relative humidity	-0.25**	0.37**	0.29**	0.48**	1.00	-	-
Precipitation	-0.25**	0.29**	0.21**	0.38**	0.46**	1.00	-
Average wind velocity	-0.14**	0.07	0.05	0.08	-0.37**	0.02	1.00

** $P \leq 0.01$; Bold font: The Spearman correlation coefficients were greater than 0.8.

Supplemental table 2 Descriptive statistics for daily meteorological variables

Meteorological variables	<i>Min</i>	<i>P₁₀</i>	<i>P₂₅</i>	<i>P₅₀</i>	<i>P₇₅</i>	<i>P₉₀</i>	<i>Max</i>
Mean temperature (°C)	-14.2	-1.1	4.9	14.2	23.6	27.0	30.3
Max temperature (°C)	-7.9	4.6	11.0	20.5	28.6	31.6	36.9
Min temperature (°C)	-19.9	-5.8	-0.5	9.2	19.1	22.8	26.5
Barometric pressure (hPa)	994.4	1002.9	1007.6	1016.4	1024.3	1028.7	1044.5
Relative humidity (%)	18.3	30.2	45.4	65.0	75.8	85.2	98.8
Precipitation (mm)	0.0	0.0	0.0	0.0	0.0	3.5	136.6
Average wind velocity (m/s)	0.7	1.4	1.8	2.4	3.1	4.1	8.0

Supplemental table 3 Epidemiology of patients admitted with unintentional injuries

Variable	n (%)
Total	12 241 (100%)
Gender	
Male	7 360 (60.13%)
Female	4 881 (39.9%)
Age	
< 18 years	1 118 (9.1%)
18-64 years	7 827 (63.9%)
≥ 65 years	3 296 (26.9%)
Mechanism	
Road traffic injury	1 571 (12.8%)
Falls	7 521 (61.4%)
Mechanical injury	2 830 (23.1%)
Other injury	319 (2.6%)
Location	
Head and neck	122 (1.0%)
Thorax	597 (4.9%)
Abdomen	548 (4.5%)
Upper extremity	4 375 (35.7%)
Hip and thigh	2 828 (23.1%)
Lower extremity	3 373 (27.6%)

Multiple regions in	176 (1.4%)
the body	
Unspecified	222 (1.8%)
Diagnosis	
Fracture	9 969 (81.4%)
Non-fracture	2 272 (18.6%)

Supplemental table 4 Cumulative associations between 10th temperature and unintentional injury over 0-14 lag days

Subgroups	Lag						
	0	1	3	5	7	...	14
Total	1.30 (1.12, 1.50)	1.23 (1.14, 1.33)	1.13 (1.04, 1.22)	1.07 (1.00, 1.17)	1.06 (0.97, 1.12)		0.91 (0.78, 1.06)
Gender							
Male	1.27 (1.07, 1.50)	1.21 (1.11, 1.32)	1.13 (1.04, 1.24)	1.10 (1.02, 1.19)	1.09 (1.01, 1.19)		0.89 (0.75, 1.06)
Female	1.34 (1.09, 1.65)	1.25 (1.12, 1.40)	1.11 (1.00, 1.24)	1.02 (0.93, 1.12)	0.97 (0.88, 1.07)		0.93 (0.75, 1.15)
Age							
< 18 years	1.64 (0.86, 3.14)	1.16 (0.84, 1.60)	0.97 (0.70, 1.36)	1.06 (0.81, 1.39)	1.12 (0.84, 1.48)		1.92 (1.00, 3.68)
18-64 years	1.24 (1.069, 1.448)	1.21 (1.120, 1.31)	1.11 (1.03, 1.20)	1.03 (0.96, 1.10)	1.00 (0.93, 1.08)		0.84 (0.72, 0.97)
≥65 years	1.380 (1.038, 1.835)	1.27 (1.10, 1.47)	1.19 (1.03, 1.38)	1.16 (1.02, 1.31)	1.12 (0.98, 1.28)		0.96 (0.72, 1.28)
Mechanism							

Road traffic injury	1.38 (1.04, 1.84)	1.27 (1.10, 1.47)	1.19 (1.03, 1.38)	1.16 (1.02, 1.31)	1.12 (0.98, 1.28)		0.96 (0.72, 1.28)
Falls	1.58 (1.28, 1.95)	1.35 (1.22, 1.51)	1.17 (1.05, 1.31)	1.13 (1.03, 1.24)	1.12 (1.02, 1.24)		0.93 (0.75, 1.15)
Mechanical injury	1.08 (0.90, 1.30)	1.04 (0.95, 1.15)	1.00 (0.90, 1.10)	0.97 (0.90, 1.08)	0.97 (0.88, 1.06)		0.94 (0.79, 1.13)
Other injury	1.09 (0.34, 3.54)	1.43 (0.81, 2.51)	1.12 (0.63, 2.00)	0.64 (0.40, 1.03)	0.47 (0.28, 0.78)		0.85 (0.26, 2.71)
Location							
Head and neck	1.48 (0.73, 3.02)	0.93 (0.62, 1.37)	0.73 (0.49, 1.08)	0.84 (0.59, 1.19)	0.94 (0.62, 1.41)		1.17 (0.46, 2.93)
Thorax	2.05 (1.20, 3.51)	1.72 (1.29, 2.29)	1.51 (1.14, 2.01)	1.40 (1.09, 1.80)	1.15 (0.88, 1.52)		1.19 (0.69, 2.03)
Abdomen	1.00 (0.98, 1.02)	0.99 (0.98, 1.00)	0.99 (0.98, 1.01)	1.00 (0.99, 1.01)	1.01 (1.00, 1.02)		1.01 (0.99, 1.03)
Upper extremity	1.16 (0.95, 1.40)	1.09 (0.98, 1.20)	1.02 (0.92, 1.12)	1.01 (0.93, 1.10)	1.05 (0.95, 1.15)		0.86 (0.70, 1.04)
Hip and thigh	1.40 (1.01, 1.94)	1.19 (1.01, 1.41)	1.13 (0.95, 1.34)	1.20 (1.04, 1.38)	1.20 (1.04, 1.40)		1.09 (0.78, 1.52)
Lower extremity	1.58 (1.21, 2.07)	1.37 (1.20, 1.58)	1.14 (1.00, 1.32)	1.06 (0.94, 1.19)	1.04 (0.92, 1.18)		0.98 (0.75, 1.29)
Multiple regions	1.45 (0.66, 3.17)	1.03 (0.68, 1.56)	0.76 (0.51, 1.15)	0.79 (0.55, 1.13)	0.94 (0.65, 1.38)		0.88 (0.40, 1.94)

Unspecified	1.92 (0.27, 13.76)	1.57 (0.62, 4.00)	0.57 (0.23, 1.42)	0.27 (0.12, 0.61)	0.33 (0.14, 0.78)		0.34 (0.05, 2.40)
Diagnosis							
Fracture	1.45 (1.23, 1.71)	1.28 (1.17, 1.39)	1.12 (1.03, 1.22)	1.09 (1.01, 1.17)	1.08 (1.00, 1.16)		0.96 (0.81, 1.13)
Non-fracture	1.14 (0.84, 1.55)	0.98 (0.83, 1.16)	0.92 (0.79, 1.08)	0.99 (0.86, 1.14)	1.04 (0.89, 1.20)		1.34 (1.00, 1.79)

Supplemental table 5 Cumulative associations between 25th temperature and unintentional injury over 0-14 lag days

Subgroups	Lag						
	0	1	3	5	7	...	14
Total	1.15 (1.04, 1.27)	1.12 (1.07, 1.18)	1.08 (1.02, 1.14)	1.05 (1.01, 1.10)	1.03 (0.99, 1.08)		0.95 (0.85, 1.05)
Gender							
Male	1.14 (1.01, 1.28)	1.12 (1.05, 1.18)	1.08 (1.02, 1.15)	1.06 (1.01, 1.11)	1.06 (1.00, 1.11)		0.93 (0.82, 1.04)
Female	1.16 (1.02, 1.32)	1.13 (1.05, 1.21)	1.07 (1.00, 1.15)	1.03 (0.97, 1.09)	0.99 (0.93, 1.06)		0.98 (0.85, 1.12)
Age							
< 18 years	1.44 (0.80, 2.61)	1.10 (0.82, 1.47)	0.97 (0.72, 1.31)	1.06 (0.84, 1.35)	1.11 (0.86, 1.42)		1.79 (1.00, 3.20)
18-64 years	1.11 (1.01, 1.22)	1.11 (1.06, 1.16)	1.07 (1.02, 1.12)	1.02 (0.98, 1.07)	1.01 (0.96, 1.05)		0.90 (0.82, 0.99)
≥65 years	1.21 (0.97, 1.50)	1.16 (1.04, 1.28)	1.11 (1.00, 1.24)	1.09 (1.00, 1.20)	1.07 (0.97, 1.18)		0.97 (0.78, 1.20)
Mechanism							

Road traffic injury	1.21 (0.97, 1.50)	1.16 (1.04, 1.28)	1.11 (1.00, 1.24)	1.09 (1.00, 1.20)	1.07 (0.97, 1.18)		0.97 (0.77, 1.20)
Falls	1.31 (1.12, 1.53)	1.19 (1.10, 1.28)	1.10 (1.02, 1.20)	1.10 (1.03, 1.17)	1.10 (1.02, 1.17)		0.97 (0.830, 1.14)
Mechanical injury	1.02 (0.93, 1.12)	1.01 (0.97, 1.07)	1.00 (0.96, 1.05)	0.99 (0.95, 1.03)	0.98 (0.94, 1.03)		0.96 (0.88, 1.06)
Other injury	1.43 (0.48, 4.27)	1.31 (0.78, 2.20)	0.91 (0.54, 1.53)	0.64 (0.42, 0.980)	0.56 (0.36, 0.88)		1.06 (0.37, 3.02)
Location							
Head and neck	1.14 (0.86, 1.51)	0.97 (0.83, 1.14)	0.91 (0.77, 1.06)	0.96 (0.83, 1.10)	0.98 (0.84, 1.16)		1.07 (0.74, 1.54)
Thorax	1.43 (1.02, 2.01)	1.34 (1.12, 1.59)	1.27 (1.06, 1.51)	1.20 (1.03, 1.40)	1.06 (0.90, 1.25)		1.19 (0.84, 1.69)
Abdomen	1.01 (0.80, 1.28)	0.91 (0.81, 1.03)	0.93 (0.83, 1.05)	1.04 (0.94, 1.16)	1.10 (0.97, 1.23)		1.09 (0.87, 1.36)
Upper extremity	1.07 (0.95, 1.20)	1.05 (0.99, 1.11)	1.02 (0.96, 1.08)	1.01 (0.96, 1.06)	1.03 (0.97, 1.08)		0.91 (0.81, 1.03)
Hip and thigh	1.23 (0.94, 1.60)	1.08 (0.95, 1.22)	1.05 (0.92, 1.20)	1.13 (1.01, 1.26)	1.15 (1.02, 1.29)		1.13 (0.87, 1.48)
Lower extremity	1.30 (1.07, 1.59)	1.21 (1.10, 1.34)	1.09 (0.99, 1.21)	1.04 (0.96, 1.13)	1.04 (0.95, 1.13)		0.95 (0.78, 1.16)
Multiple regions	1.11 (0.78, 1.56)	1.01 (0.85, 1.21)	0.91 (0.76, 1.09)	0.90 (0.77, 1.05)	0.95 (0.80, 1.12)		0.91 (0.64, 1.29)

Unspecified	2.30 (0.34, 15.74)	1.58 (0.63, 3.94)	0.55 (0.23, 1.33)	0.30 (0.14, 0.65)	0.40 (0.18, 0.89)		0.54 (0.06, 3.38)
Diagnosis							
Fracture	1.23 (1.10, 1.37)	1.15 (1.08, 1.21)	1.08 (1.02, 1.14)	1.06 (1.01, 1.11)	1.05 (1.00, 1.11)		0.98 (0.87, 1.10)
Non-fracture	1.20 (0.79, 1.83)	0.97 (0.77, 1.22)	0.89 (0.72, 1.11)	0.98 (0.81, 1.19)	1.06 (0.86, 1.29)		1.50 (1.01, 2.24)

Supplemental table 6 Cumulative associations between 10th temperature and unintentional injury over 0-28 lag days

Subgroups	Lag						
	0	1	3	5	7	...	28
Total	1.39 (1.23, 1.56)	1.30 (1.20, 1.41)	1.17 (1.10, 1.25)	1.09 (1.03, 1.17)	1.05 (0.99, 1.11)		1.08 (0.97, 1.21)
Gender							
Male	1.35 (1.16, 1.58)	1.29 (1.16, 1.44)	1.20 (1.11, 1.30)	1.14 (1.05, 1.23)	1.10 (1.02, 1.180)		1.12 (0.97, 1.30)
Female	1.44 (1.22, 1.72)	1.31 (1.16, 1.48)	1.13 (1.03, 1.24)	1.03 (0.94, 1.13)	0.98 (0.90, 1.06)		1.08 (0.92, 1.27)
Age							
< 18 years	1.33 (0.92, 1.93)	1.19 (0.92, 1.53)	1.04 (0.86, 1.26)	1.01 (0.84, 1.23)	1.03 (0.87, 1.24)		1.14 (0.81, 1.60)
18-64 years	1.36 (1.19, 1.55)	1.27 (1.16, 1.39)	1.14 (1.07, 1.22)	1.06 (0.99, 1.14)	1.02 (0.95, 1.09)		1.08 (0.95, 1.22)
≥65 years	1.48 (1.15, 1.91)	1.42 (1.19, 1.68)	1.29 (1.14, 1.47)	1.19 (1.04, 1.35)	1.12 (0.99, 1.25)		1.08 (0.84, 1.37)

Mechanism						
Road traffic injury	1.13 (0.76, 1.67)	1.16 (0.89, 1.51)	1.19 (0.99, 1.44)	1.18 (0.98, 1.43)	1.15 (0.96, 1.37)	1.24 (0.86, 1.81)
Falls	1.64 (1.39, 1.95)	1.48 (1.32, 1.67)	1.27 (1.17, 1.39)	1.16 (1.06, 1.26)	1.10 (1.01, 1.19)	1.14 (0.97, 1.34)
Mechanical injury	1.05 (0.92, 1.20)	1.04 (0.95, 1.14)	1.01 (0.94, 1.09)	0.98 (0.91, 1.05)	0.95 (0.89, 1.02)	0.99 (0.88, 1.11)
Other injury	1.94 (0.81, 4.63)	1.35 (0.74, 2.44)	0.83 (0.54, 1.28)	0.66 (0.43, 1.02)	0.63 (0.4, 0.93)	0.82 (0.35, 1.88)
Location						
Head and neck	1.21 (0.60, 2.44)	1.01 (0.61, 1.67)	0.81 (0.54, 1.20)	0.740 (0.50, 1.10)	0.74 (0.50, 1.07)	1.76 (0.85, 3.64)
Thorax	2.27 (1.40, 3.68)	1.98 (1.42, 2.77)	1.53 (1.19, 1.98)	1.23 (0.95, 1.59)	1.04 (0.82, 1.31)	0.95 (0.58, 1.54)
Abdomen	1.46 (0.90, 2.36)	1.40 (1.00, 1.95)	1.29 (1.01, 1.66)	1.21 (0.94, 1.55)	1.14 (0.90, 1.43)	1.09 (0.69, 1.73)
Upper extremity	1.13 (0.95, 1.34)	1.12 (1.10, 1.26)	1.10 (1.00, 1.19)	1.07 (0.98, 1.16)	1.04 (0.96, 1.13)	1.10 (0.942, 1.282)
Hip and thigh	1.42 (1.14, 1.78)	1.34 (1.15, 1.57)	1.23 (1.10, 1.39)	1.16 (1.03, 1.31)	1.12 (1.00, 1.25)	1.09 (0.88, 1.34)
Lower extremity	1.69 (1.36, 2.10)	1.49 (1.28, 1.73)	1.24 (1.11, 1.39)	1.11 (1.10, 1.25)	1.06 (0.95, 1.17)	1.11 (0.90, 1.37)

Multiple regions	1.05 (0.57, 1.95)	0.93 (0.60, 1.43)	0.81 (0.59, 1.12)	0.80 (0.58, 1.12)	0.85 (0.62, 1.17)		0.91 (0.52, 1.59)
Unspecified	2.65 (0.66, 10.76)	1.59 (0.63, 4.02)	0.83 (0.42, 1.64)	0.64 (0.31, 1.30)	0.63 (0.32, 1.23)		2.08 (0.50, 8.72)
Diagnosis							
Fracture	1.47 (1.29, 1.67)	1.36 (1.24, 1.49)	1.20 (1.12, 1.29)	1.11 (1.03, 1.19)	1.05 (0.99, 1.12)		1.07 (0.94, 1.21)
Non-fracture	1.09 (0.87, 1.35)	1.07 (0.92, 1.25)	1.05 (0.93, 1.17)	1.03 (0.91, 1.15)	1.00 (0.90, 1.12)		1.15 (0.94, 1.40)

Supplemental table 7 Cumulative associations between 25th temperature and unintentional injury over 0-28 lag days

Subgroups	Lag						
	0	1	3	5	7	...	28
Total	1.21 (1.11, 1.32)	1.17 (1.10, 1.24)	1.11 (1.06, 1.16)	1.07 (1.02, 1.12)	1.04 (1.10, 1.08)		1.06 (0.98, 1.15)
Gender							
Male	1.21 (1.06, 1.37)	1.17 (1.08, 1.28)	1.13 (1.06, 1.20)	1.09 (1.02, 1.16)	1.07 (1.00, 1.13)		1.12 (0.98, 1.26)
Female	1.22 (1.09, 1.37)	1.17 (1.08, 1.27)	1.09 (1.03, 1.15)	1.03 (0.97, 1.10)	1.00 (0.95, 1.06)		1.04 (0.93, 1.16)
Age							
< 18 years	1.18 (0.91, 1.53)	1.10 (0.92, 1.32)	1.02 (0.90, 1.17)	1.01 (0.88, 1.15)	1.02 (0.90, 1.15)		1.11 (0.87, 1.42)
18-64 years	1.19 (1.09, 1.30)	1.15 (1.08, 1.23)	1.09 (1.04, 1.14)	1.05 (1.00, 1.10)	1.02 (0.98, 1.07)		1.06 (0.97, 1.15)
≥65 years	1.28 (1.03, 1.58)	1.24 (1.08, 1.44)	1.18 (1.06, 1.31)	1.12 (1.01, 1.25)	1.07 (0.97, 1.18)		1.05 (0.86, 1.30)
Mechanism							

Road traffic injury	1.10 (0.77, 1.58)	1.14 (0.89, 1.44)	1.16 (0.98, 1.37)	1.15 (0.96, 1.36)	1.11 (0.95, 1.30)		1.21 (0.86, 1.71)
Falls	1.35 (1.18, 1.54)	1.28 (1.17, 1.40)	1.18 (1.10, 1.26)	1.11 (1.04, 1.19)	1.08 (1.01, 1.15)		1.11 (0.98, 1.26)
Mechanical injury	1.01 (0.96, 1.07)	1.01 (0.97, 1.06)	1.01 (0.97, 1.04)	0.99 (0.96, 1.03)	0.98 (0.96, 1.01)		0.99 (0.94, 1.04)
Other injury	1.75 (0.79, 3.88)	1.21 (0.71, 2.07)	0.76 (0.52, 1.11)	0.62 (0.42, 0.91)	0.61 (0.43, 0.87)		0.79 (0.37, 1.67)
Location							
Head and neck	1.08 (0.74, 1.56)	1.01 (0.77, 1.32)	0.93 (0.76, 1.14)	0.90 (0.73, 1.10)	0.89 (0.73, 1.08)		1.30 (0.89, 1.89)
Thorax	1.64 (1.13, 2.40)	1.50 (1.16, 1.94)	1.28 (1.06, 1.54)	1.13 (0.93, 1.37)	1.04 (0.87, 1.24)		1.11 (0.76, 1.63)
Abdomen	1.26 (0.87, 1.82)	1.27 (0.98, 1.63)	1.25 (1.04, 1.51)	1.21 (1.00, 1.46)	1.16 (0.98, 1.38)		1.02 (0.72, 1.45)
Upper extremity	1.07 (0.95, 1.20)	1.07 (0.99, 1.16)	1.06 (1.00, 1.13)	1.05 (0.99, 1.11)	1.03 (0.98, 1.09)		1.06 (0.95, 1.18)
Hip and thigh	1.22 (1.05, 1.42)	1.18 (1.07, 1.31)	1.13 (1.05, 1.22)	1.10 (1.02, 1.19)	1.07 (1.00, 1.15)		1.08 (0.94, 1.25)
Lower extremity	1.37 (1.16, 1.63)	1.28 (1.14, 1.44)	1.16 (1.07, 1.26)	1.09 (1.00, 1.19)	1.06 (0.98, 1.15)		1.07 (0.91, 1.26)
Multiple regions	1.01 (0.78, 1.33)	0.96 (0.80, 1.16)	0.908 (0.789, 1.044)	0.900 (0.781, 1.038)	0.920 (0.804, 1.053)		0.957 (0.749, 1.223)

Unspecified	2.76 (0.71, 10.73)	1.62 (0.66, 3.97)	0.84 (0.44, 1.62)	0.67 (0.34, 1.33)	0.70 (0.37, 1.32)		1.98 (0.50, 7.86)
Diagnosis							
Fracture	1.25 (1.14, 1.38)	1.20 (1.13, 1.28)	1.13 (1.08, 1.18)	1.08 (1.03, 1.13)	1.05 (1.00, 1.09)		1.05 (0.96, 1.15)
Non-fracture	1.05 (0.90, 1.21)	1.04 (0.94, 1.16)	1.04 (0.96, 1.12)	1.02 (0.95, 1.10)	1.01 (0.94, 1.08)		1.10 (0.95, 1.26)