

Supplementary data

Supplement to: Onozuka D, Gasparrini A, Sera F, Hashizume M, Honda Y. Future projections of temperature-related excess out-of-hospital cardiac arrest under climate change scenarios in Japan.

Figure S1. Temperature and excess morbidity in different climates.

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Table S6. Sensitivity analysis, by varying modelling choices. Results were the net difference in excess morbidity in 2090–2099 compared with 2010–2019.

Figure S1. Temperature and excess morbidity in different climates.

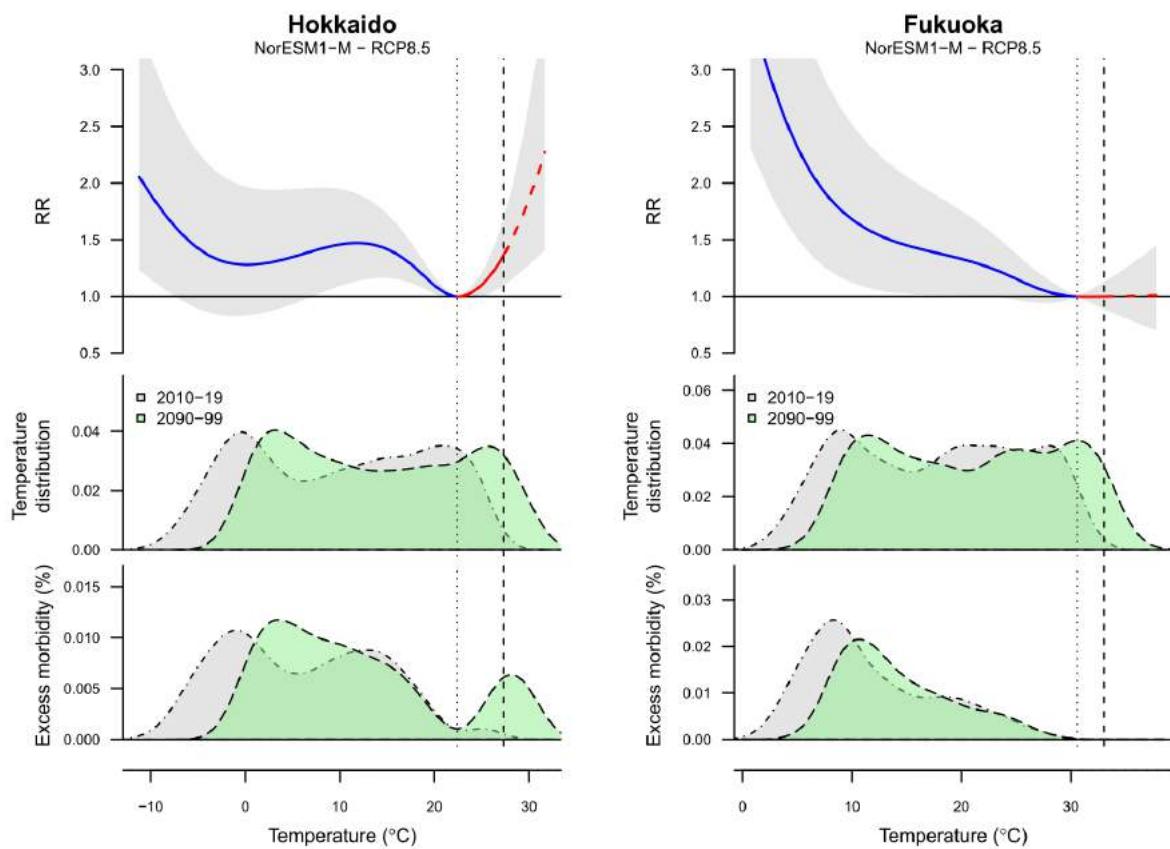
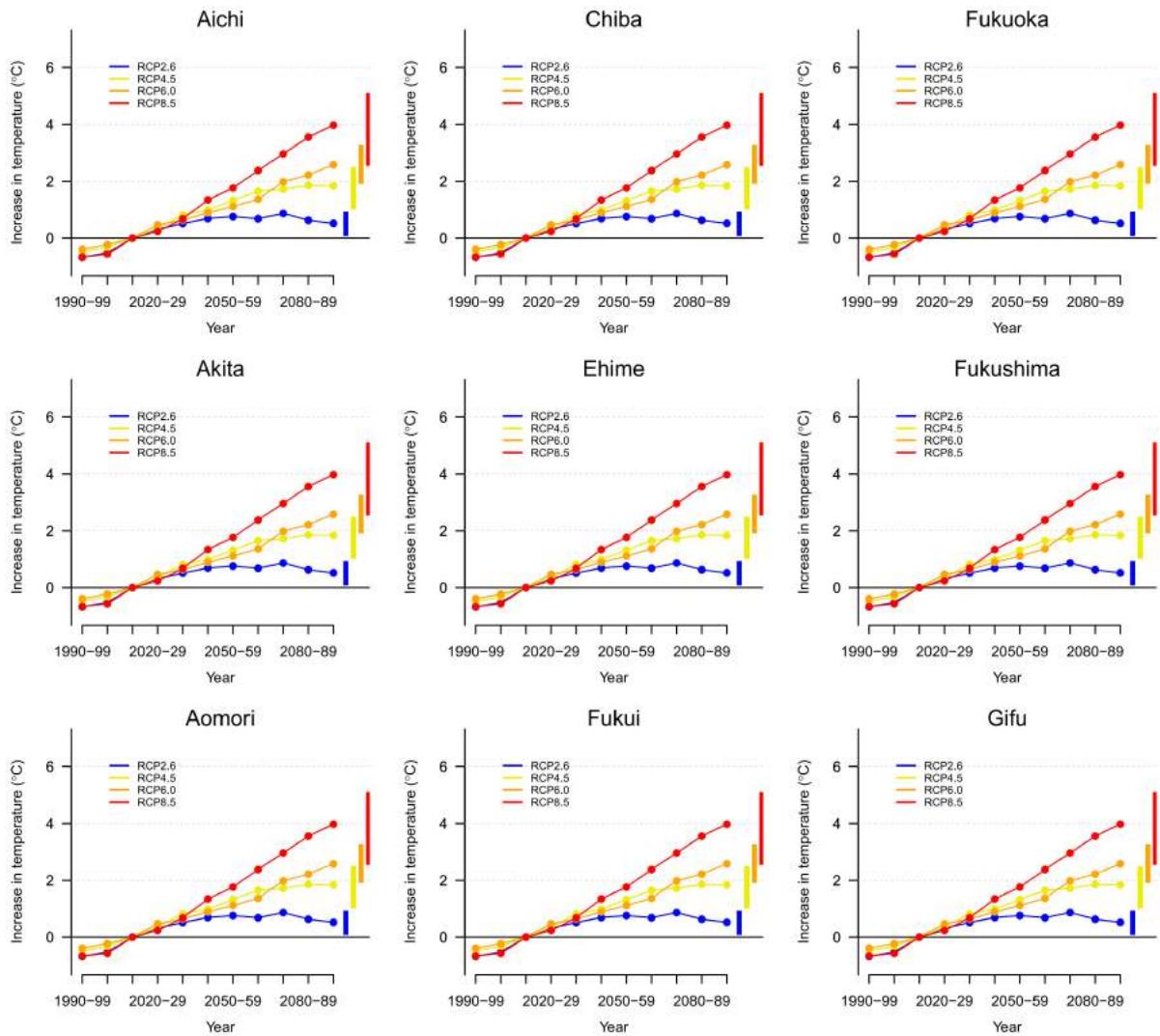
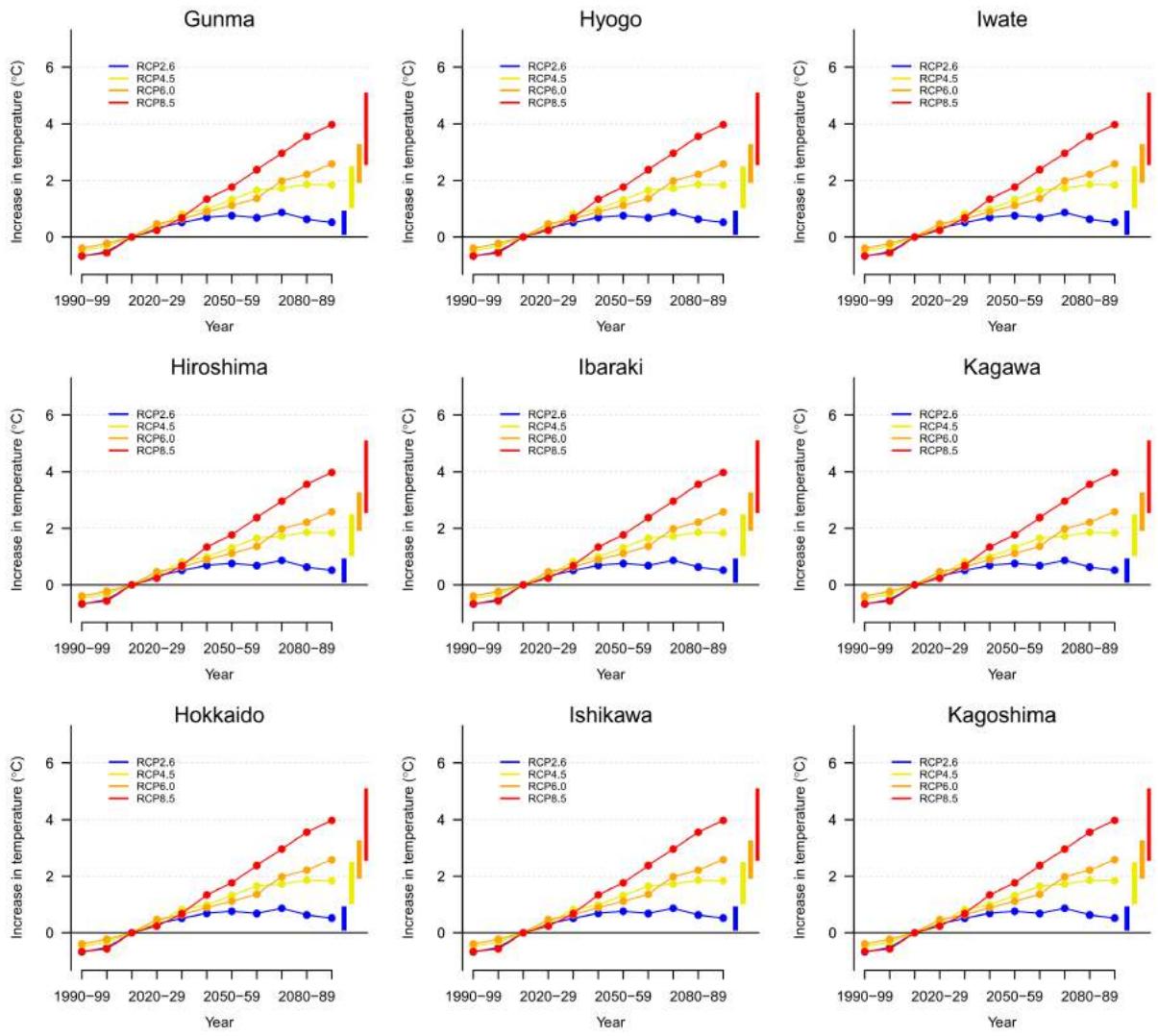
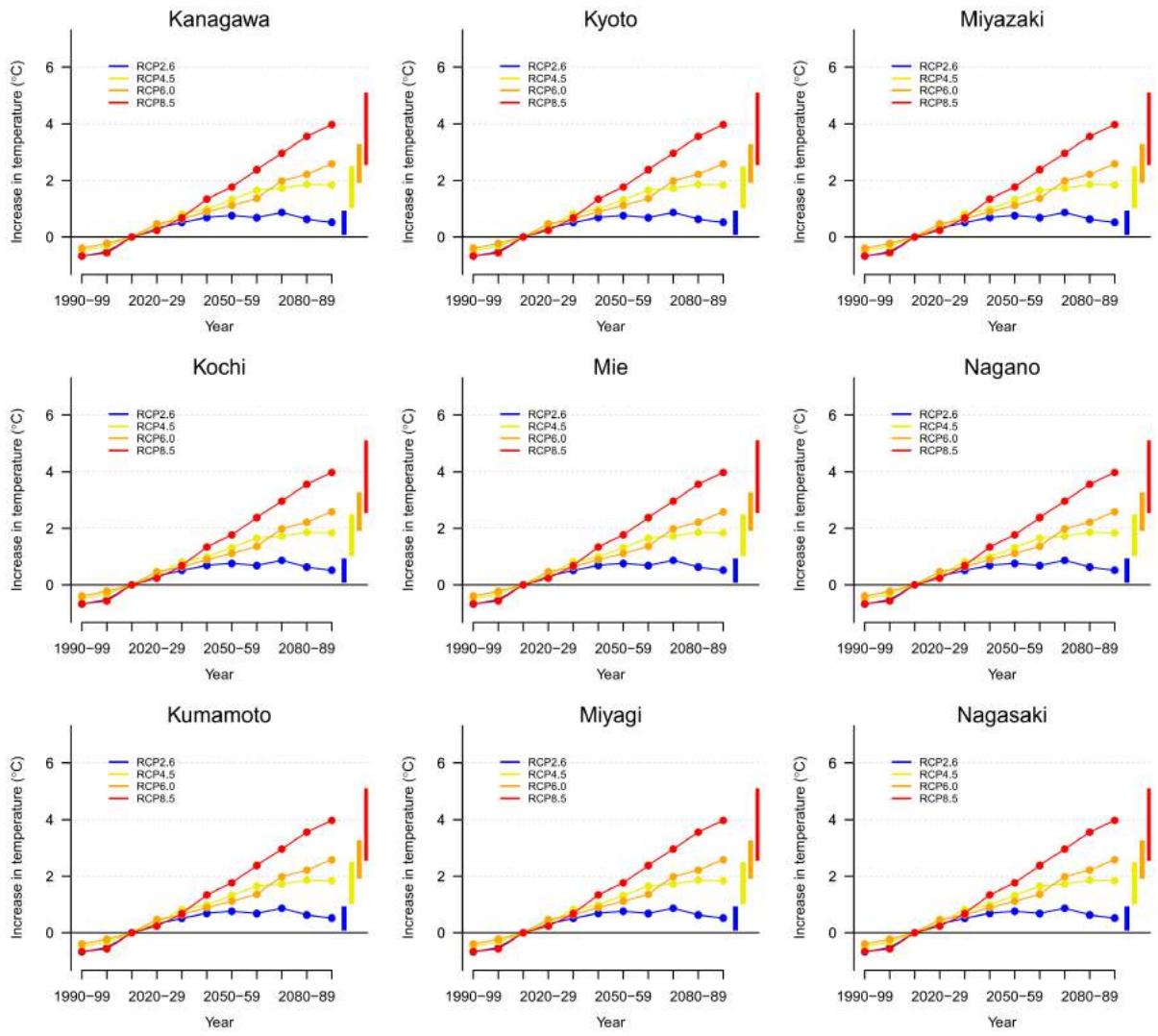
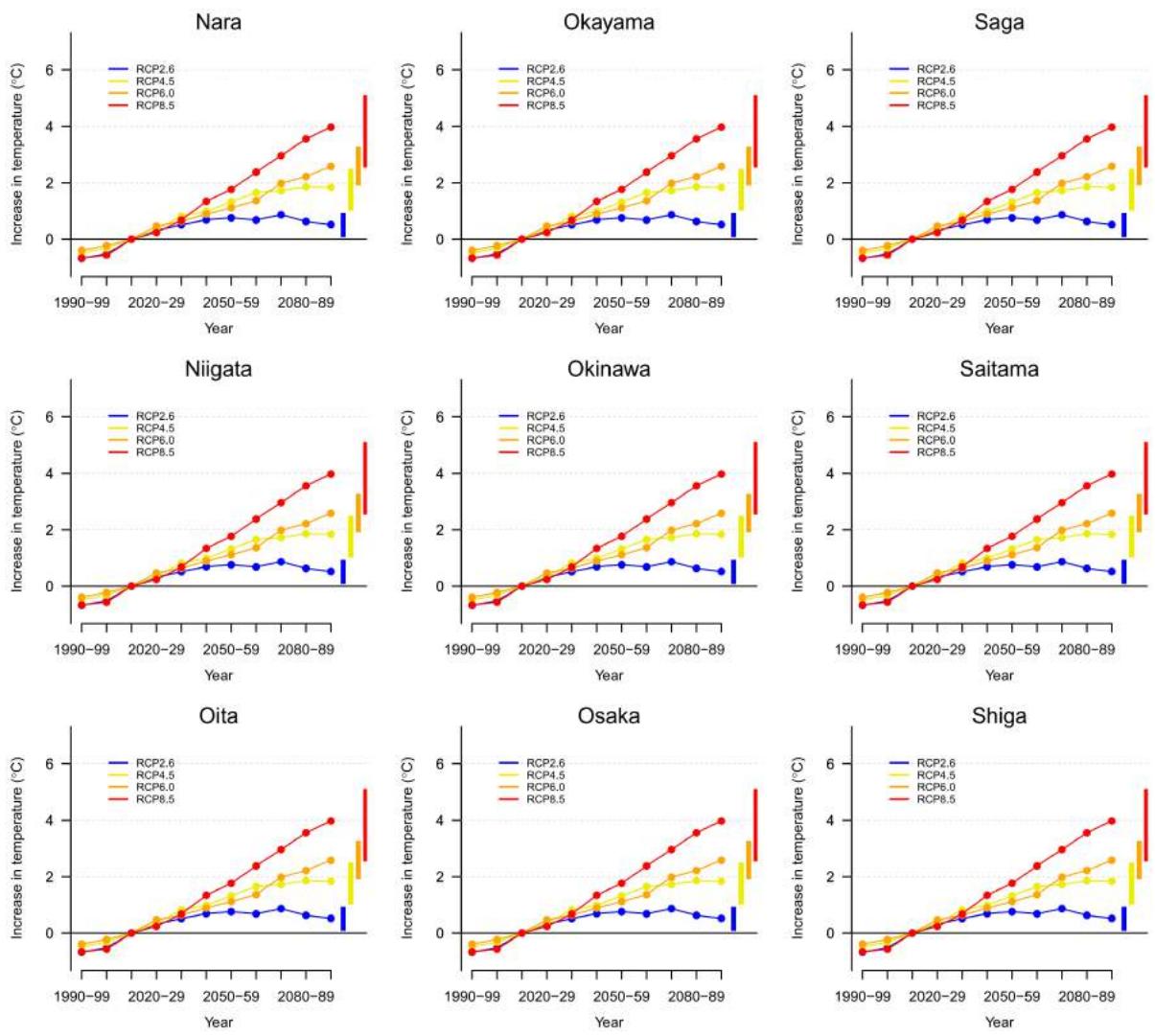


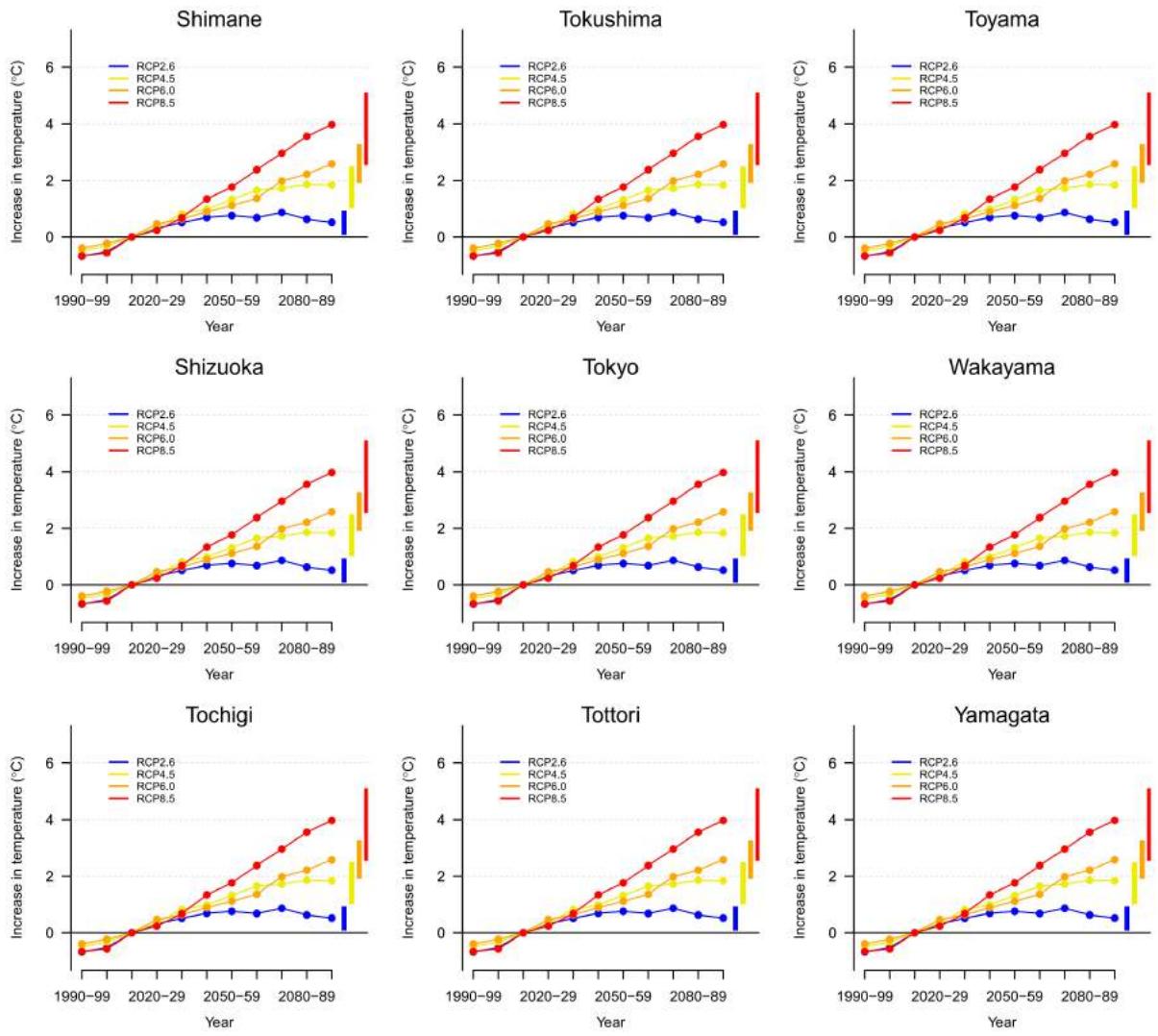
Figure S2. Decadal temperature trends by prefecture and scenario.











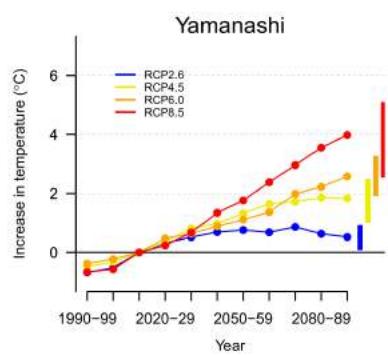
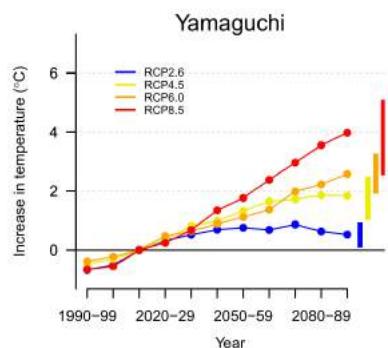


Figure S3. Map of prefecture-specific changes in temperature.

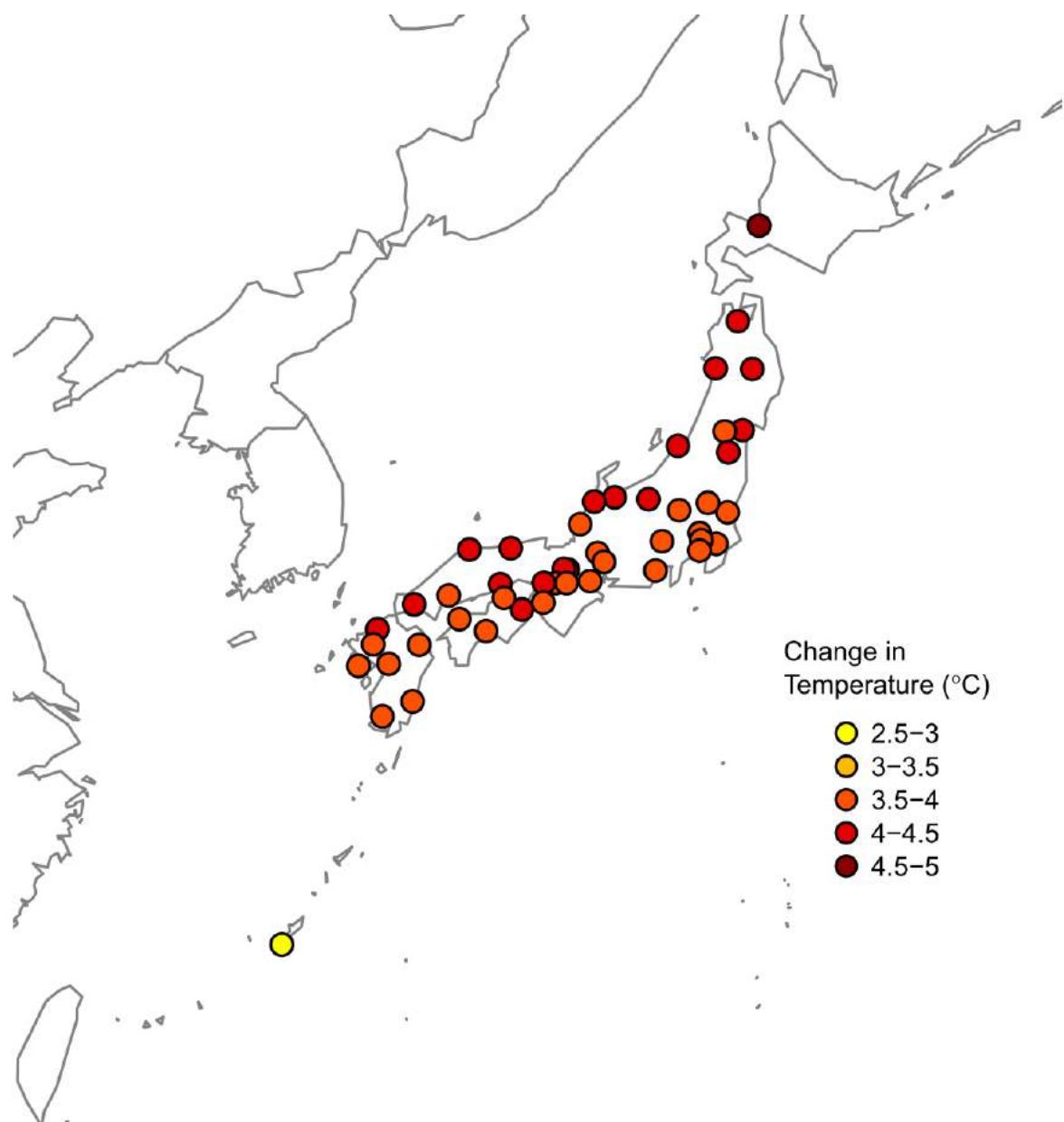
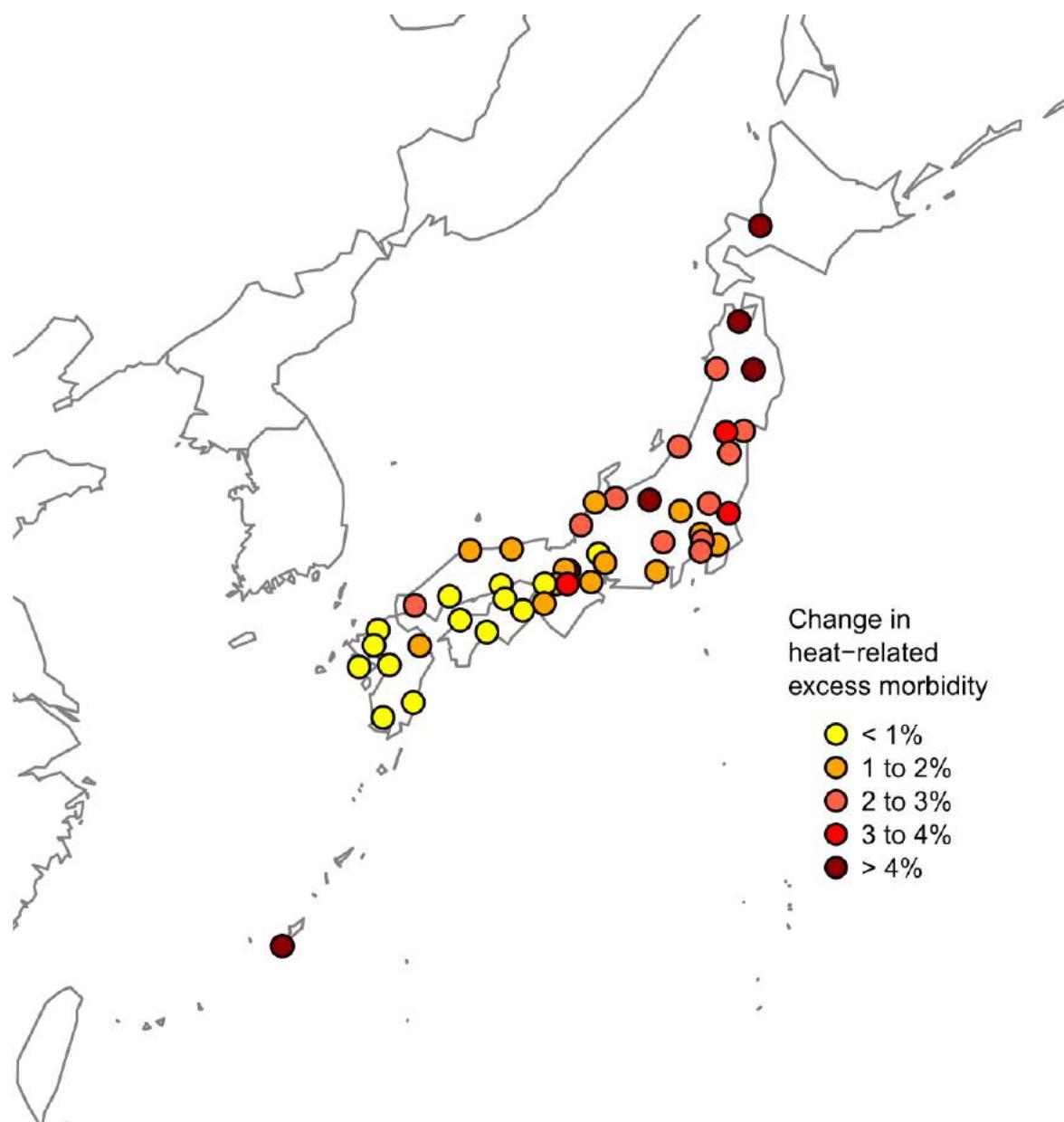
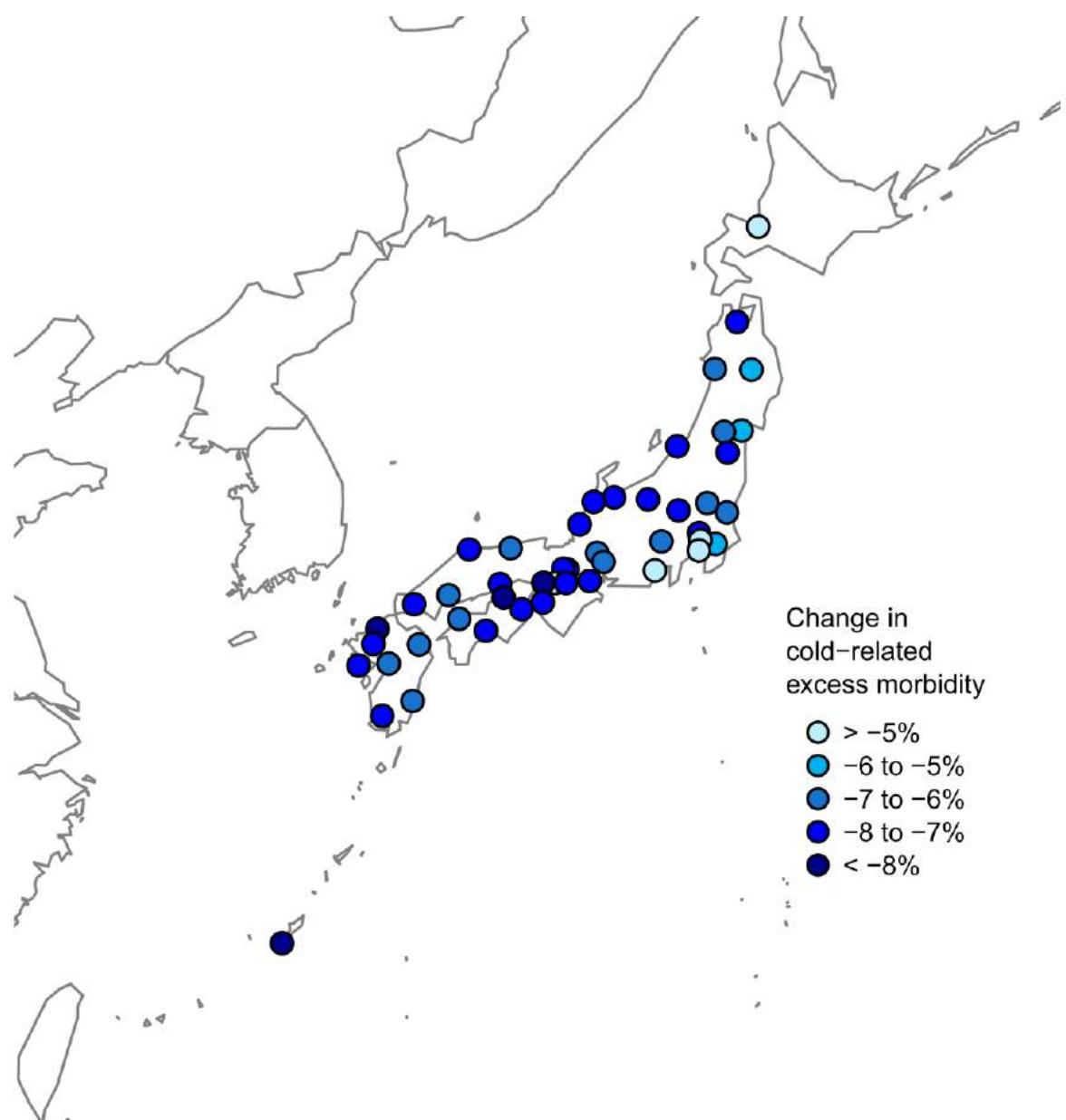


Figure S4. Map of prefecture-specific changes in temperature-related excess morbidity.





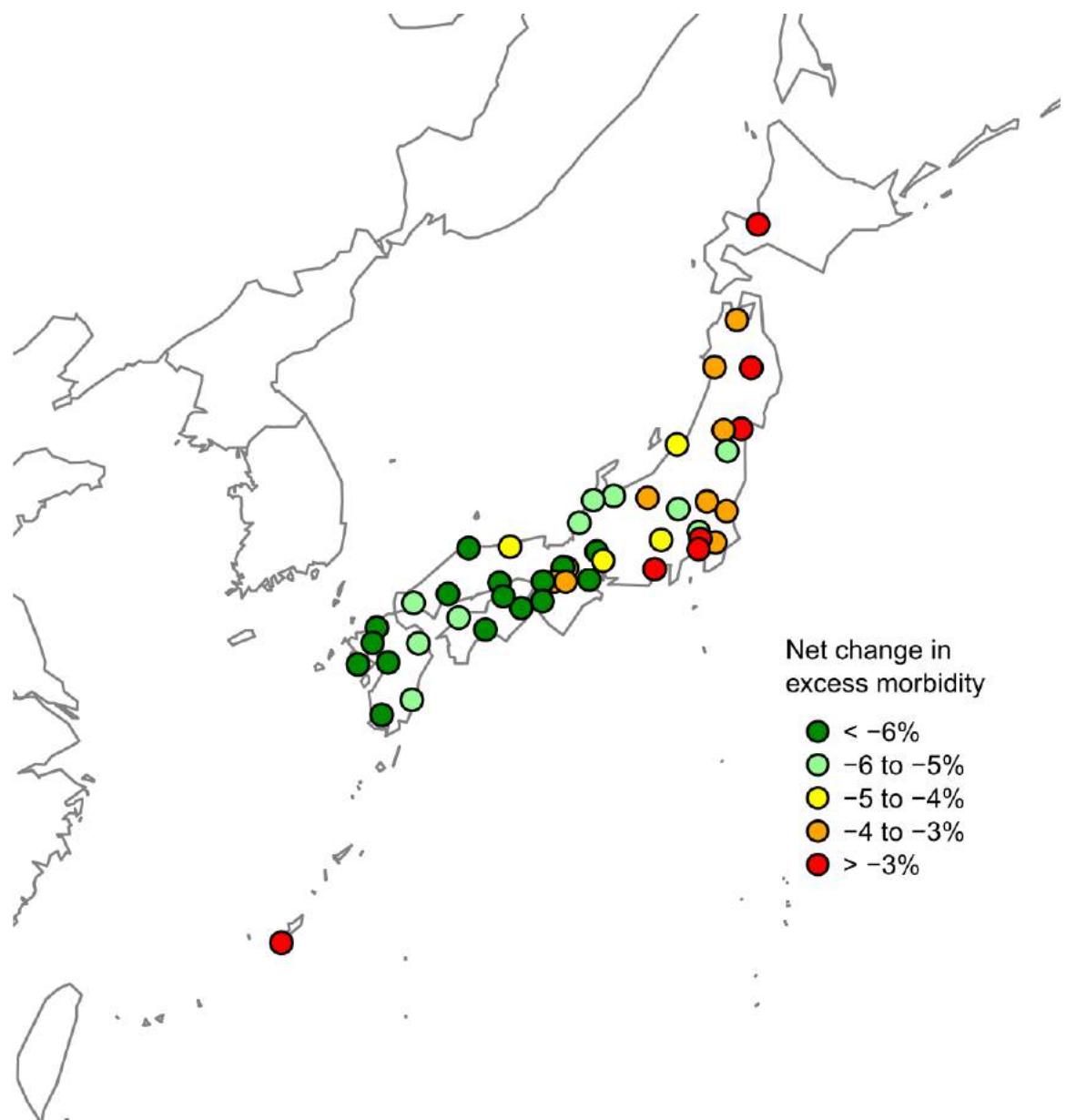
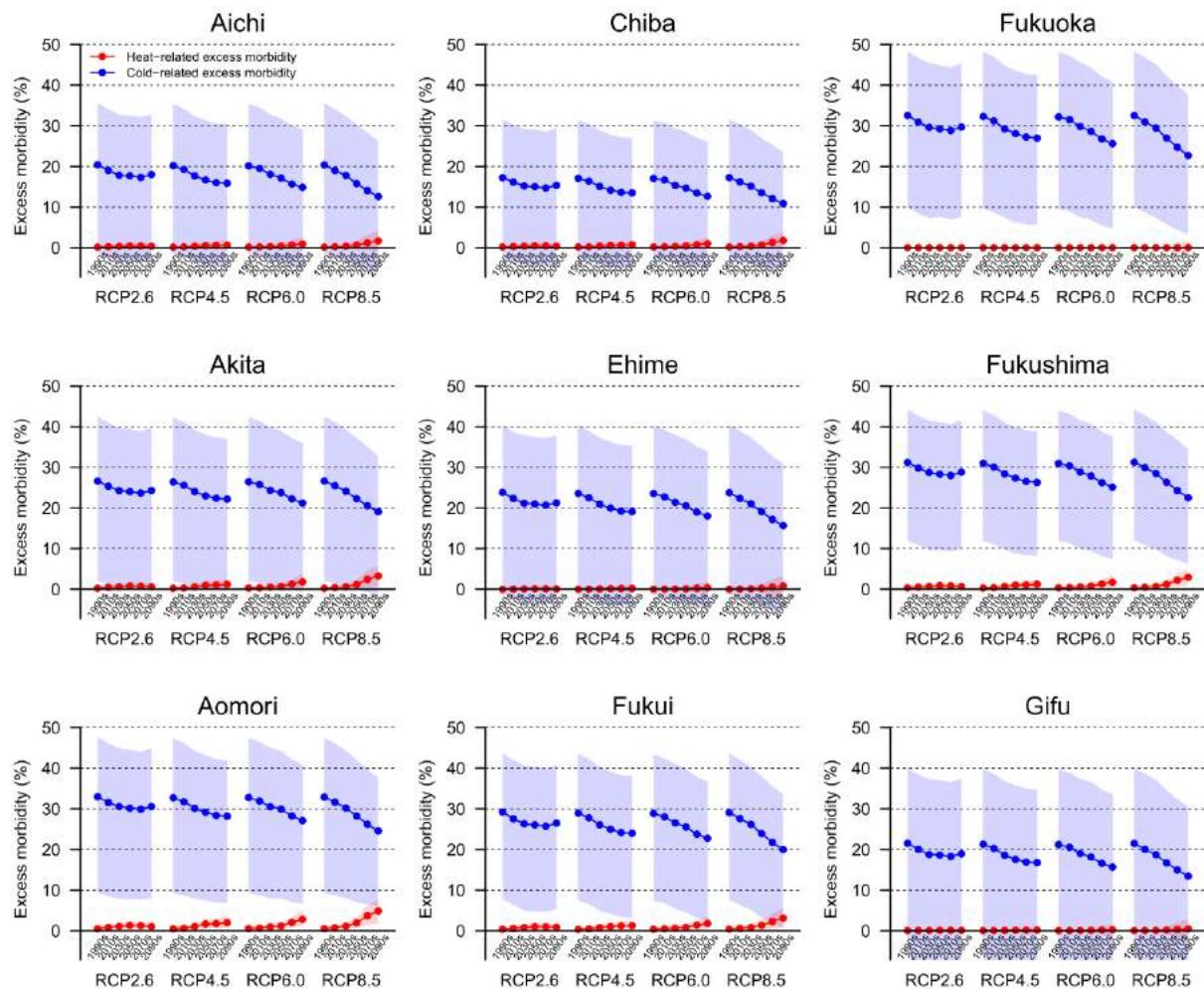
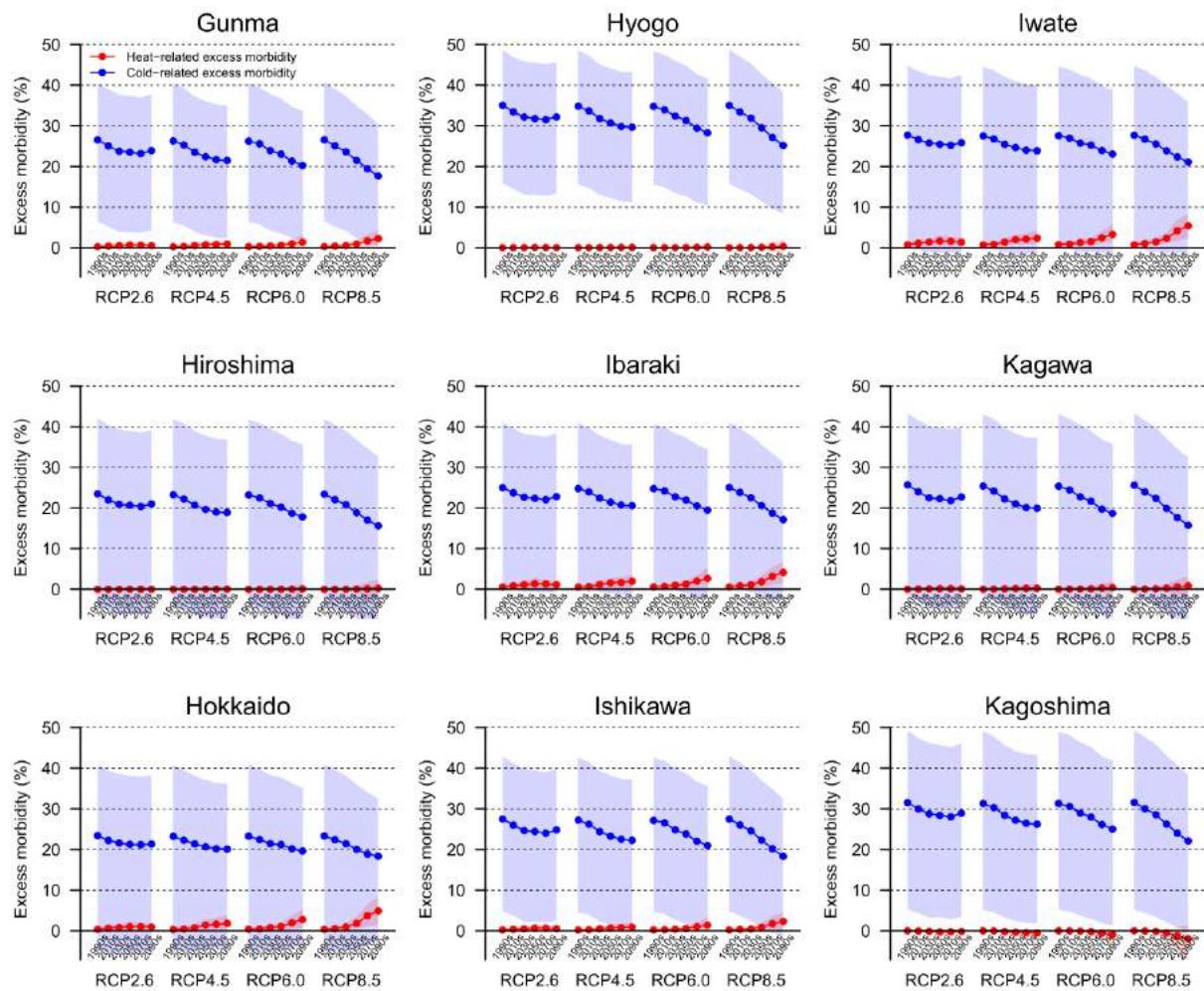
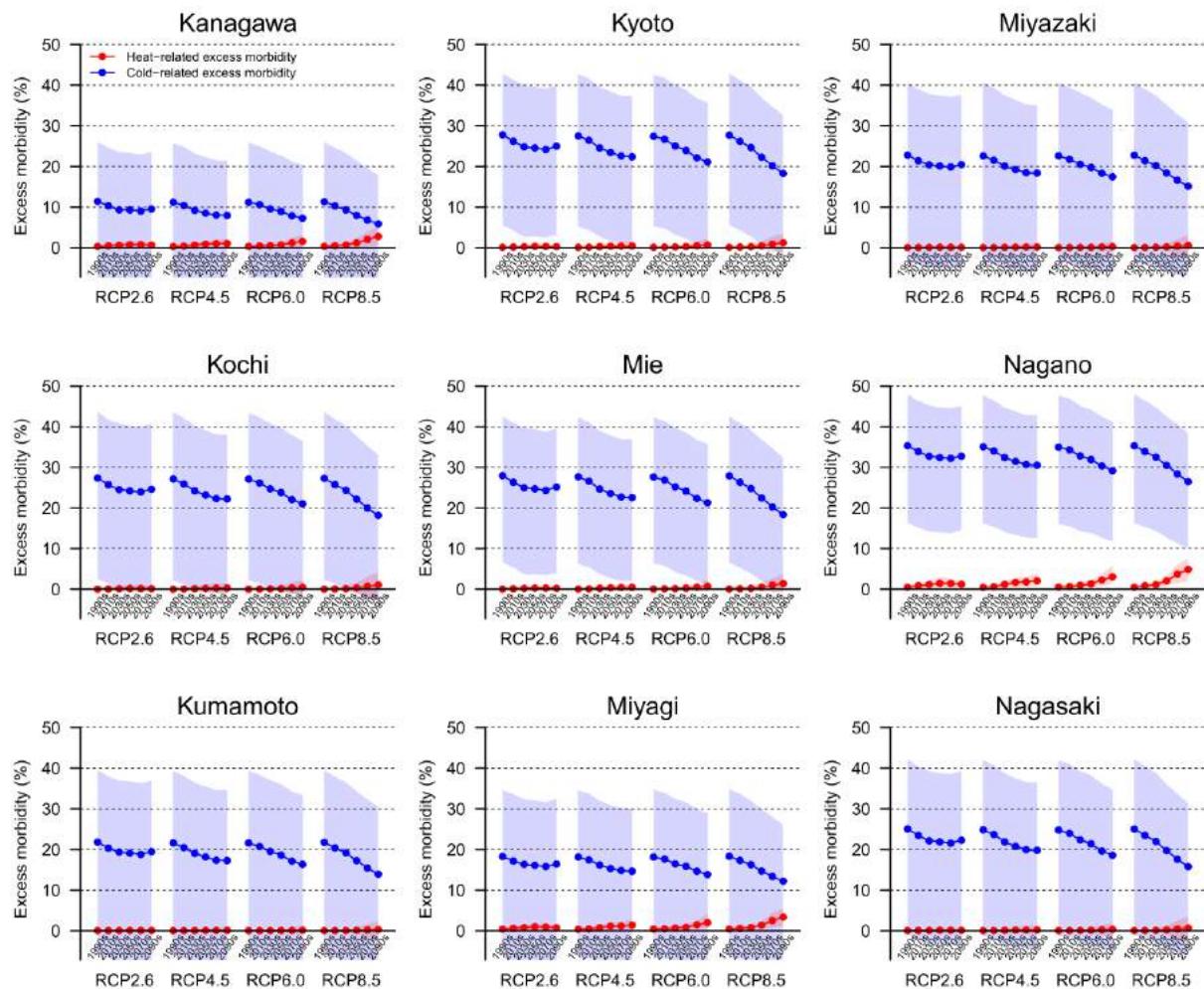
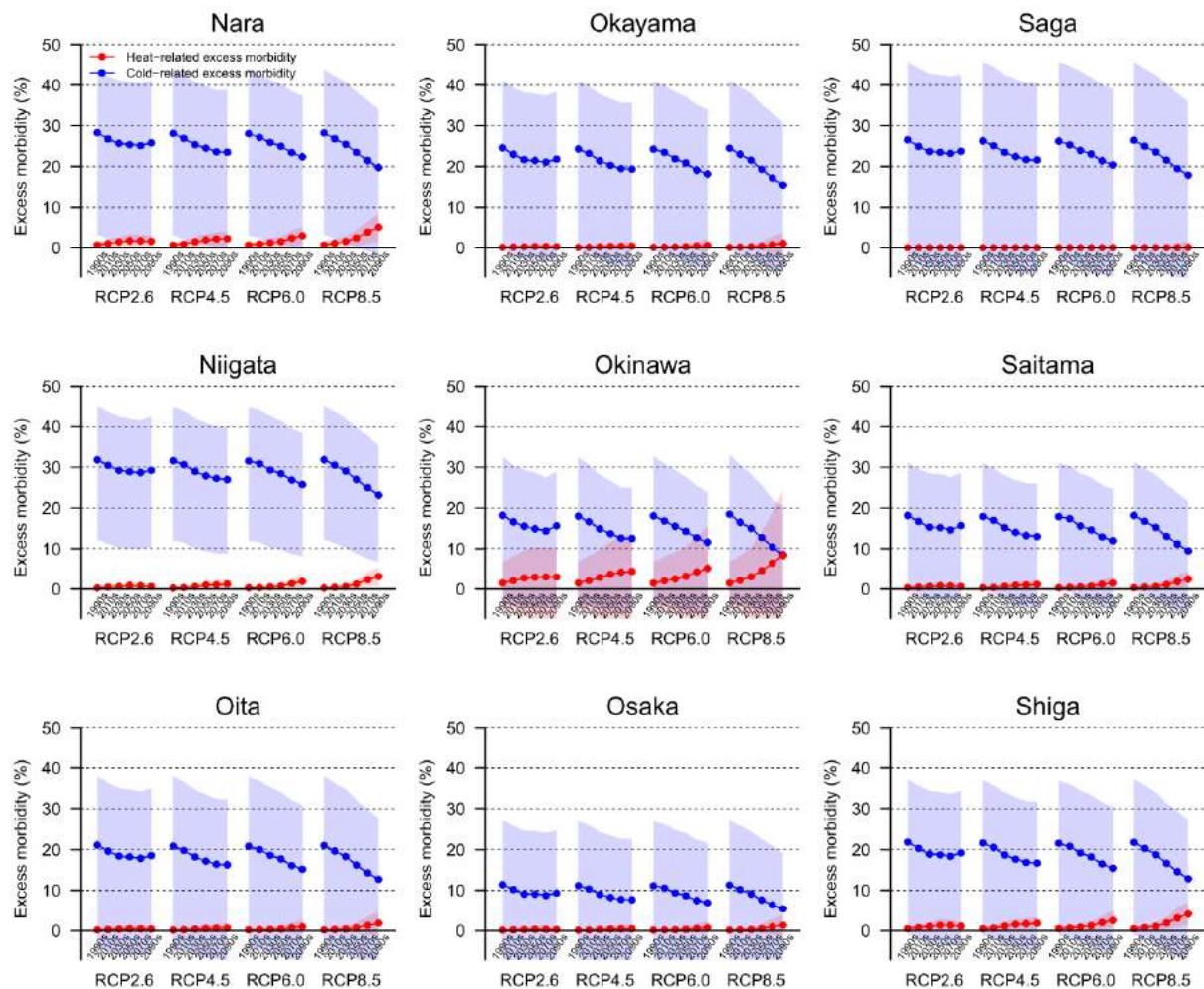


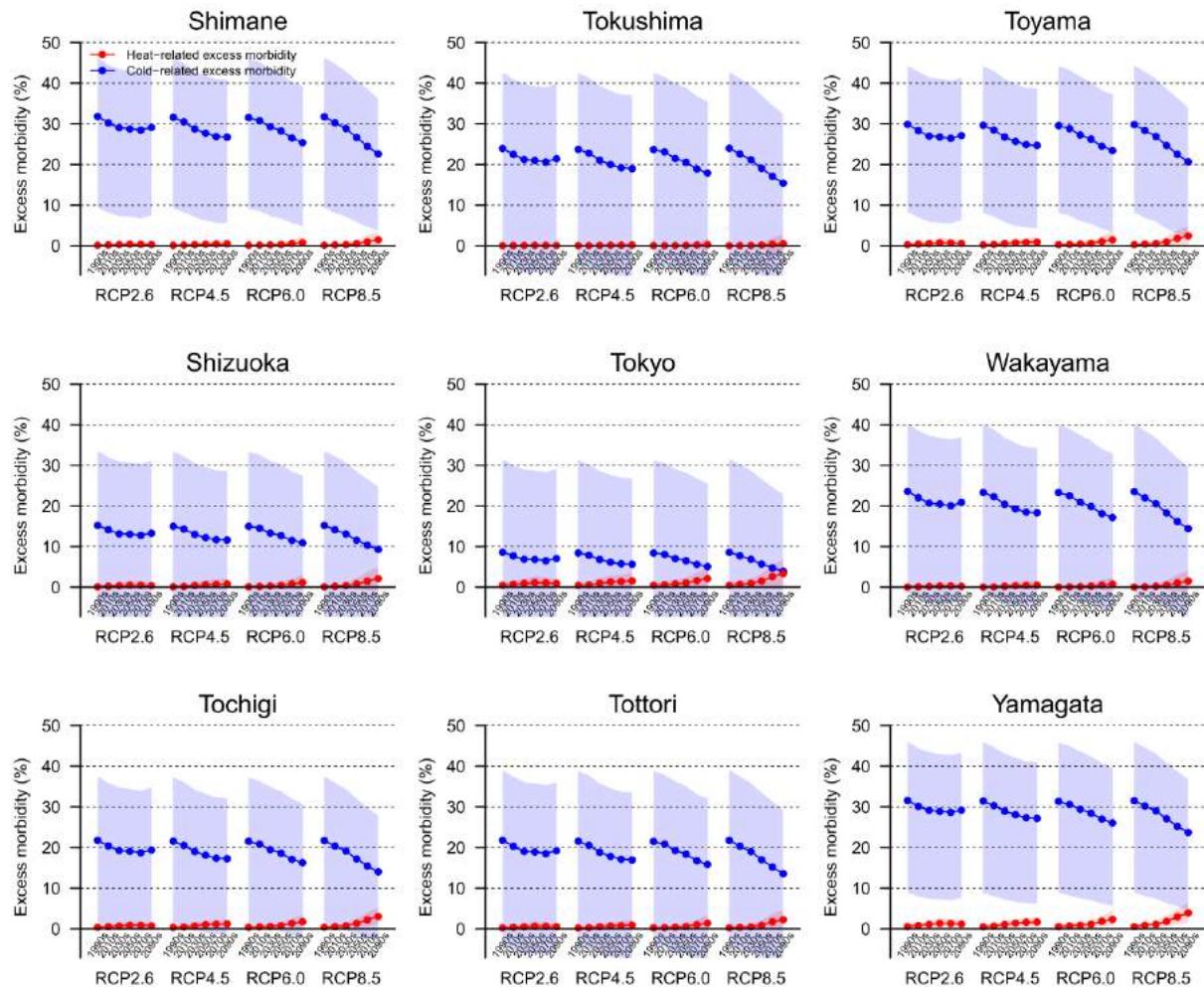
Figure S5. Trends in heat-related and cold-related excess morbidity by prefecture.











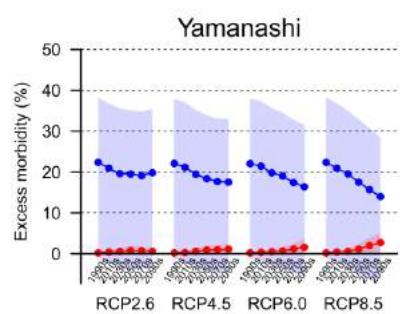
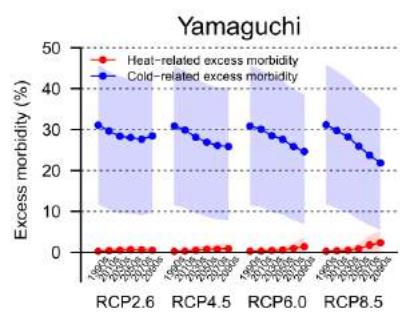
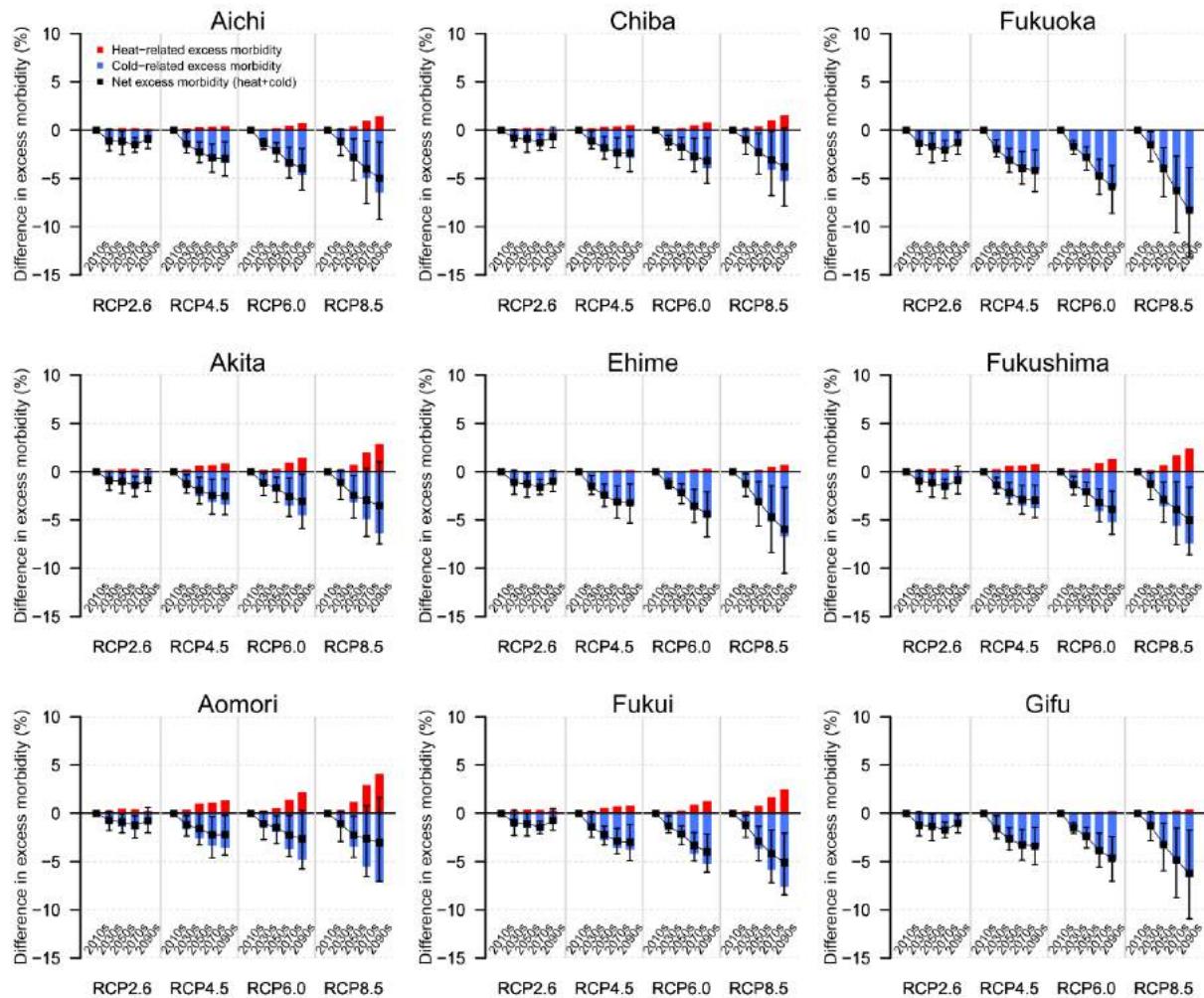
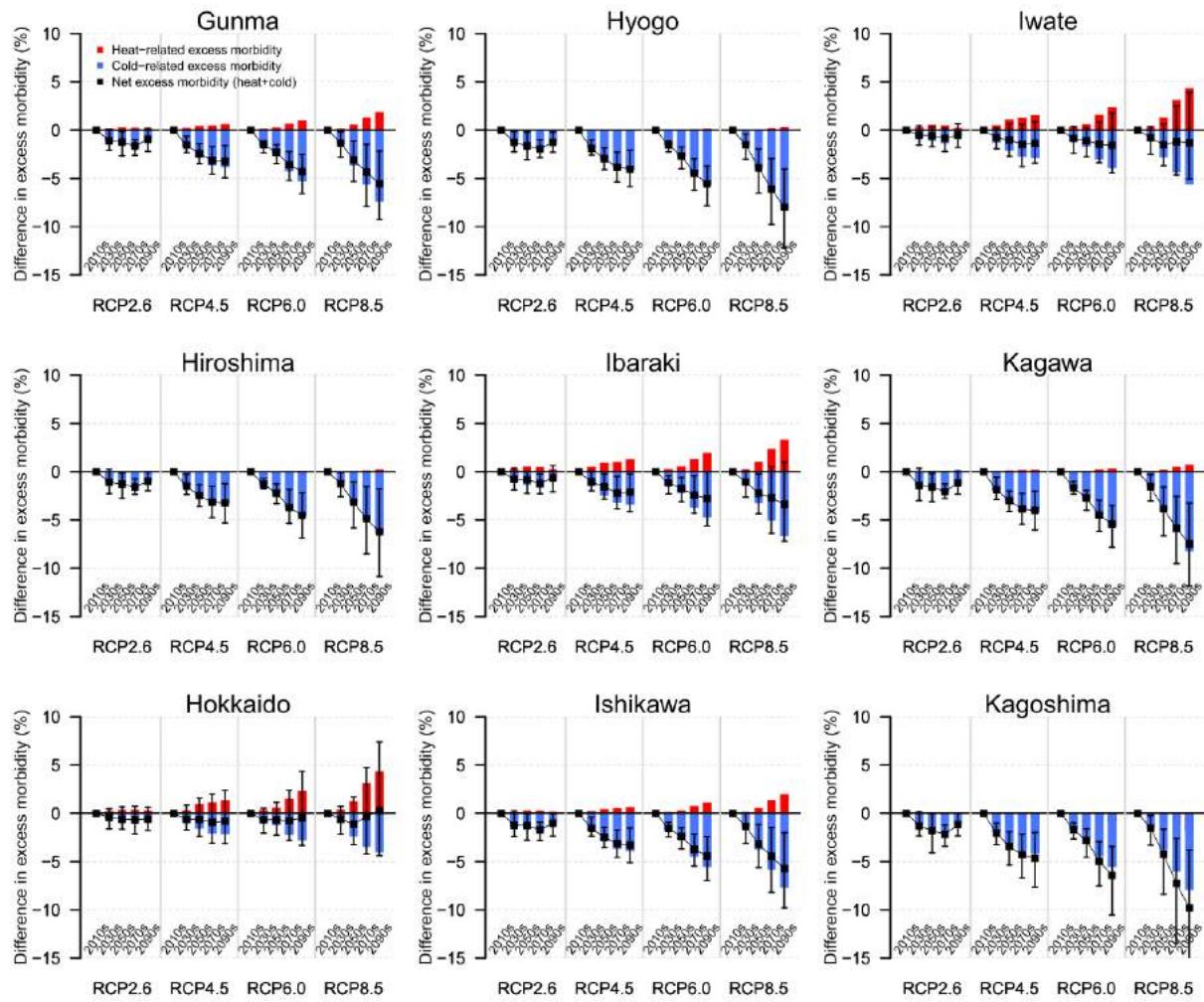
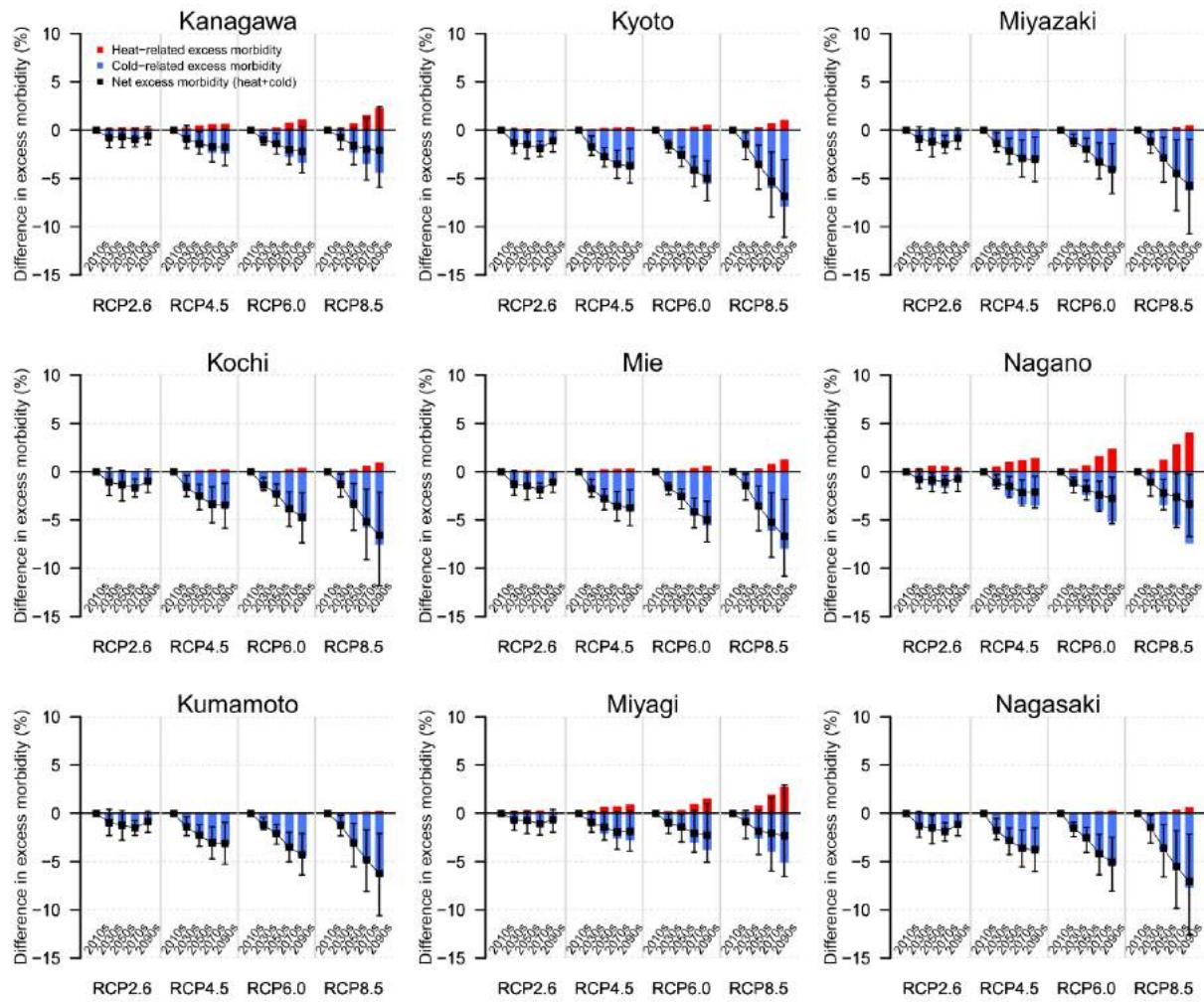
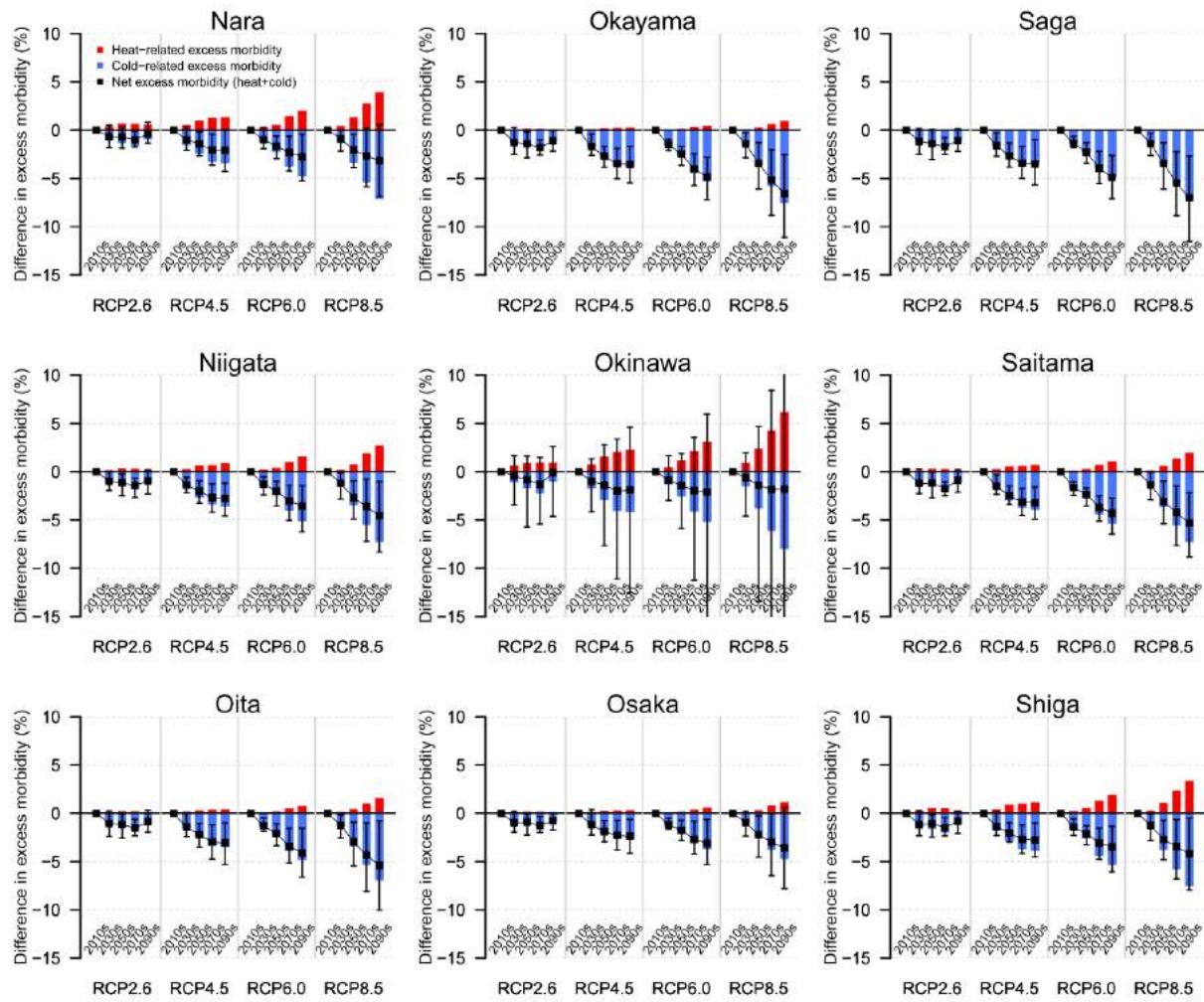


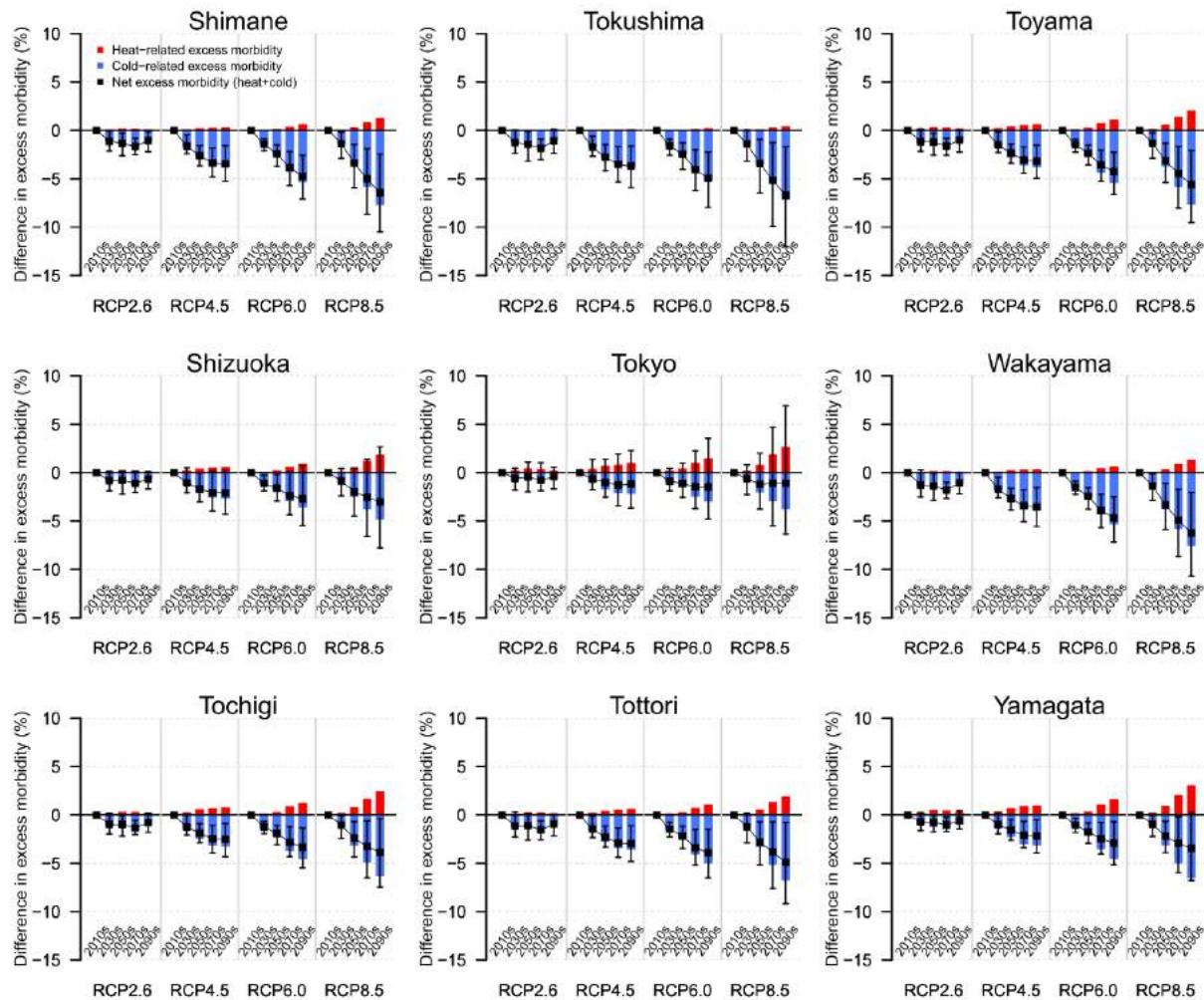
Figure S6. Temporal change in excess morbidity by prefecture.











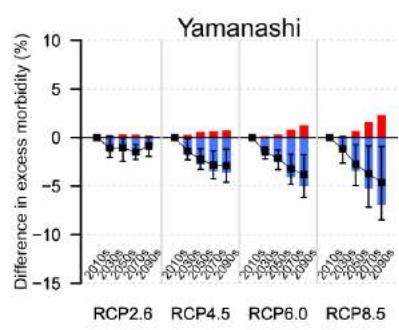
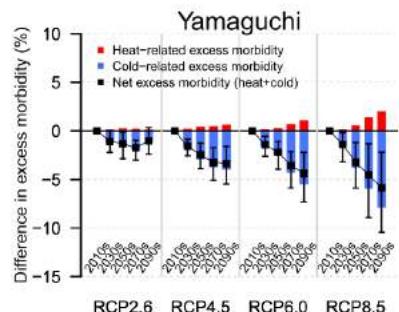


Table S1. Descriptive statistics by prefecture in 2005–2015.

Prefecture	Total OHCAs	Temperature, °C
Aichi	43,211	16.3 (-1.5, 32.7)
Akita	8,707	12.1 (-5.5, 31.6)
Aomori	10,435	10.7 (-7.4, 30.1)
Chiba	33,572	16.3 (0.3, 32.1)
Ehime	10,121	16.8 (-0.4, 31.7)
Fukui	3,723	14.8 (-1.8, 31.9)
Fukuoka	17,710	17.4 (-0.1, 32.8)
Fukushima	16,440	13.5 (-4.2, 31.4)
Gifu	15,555	16.2 (-1.7, 32.7)
Gunma	12,836	15.1 (-1.4, 32.6)
Hiroshima	12,298	16.5 (-2.0, 31.8)
Hokkaido	31,100	9.4 (-10.7, 29.3)
Hyogo	28,563	17.0 (-0.3, 32.5)
Ibaraki	18,436	14.2 (-1.7, 31.0)
Ishikawa	5,190	15.0 (-1.8, 32.4)
Iwate	10,558	10.7 (-7.7, 29.3)
Kagawa	5,423	16.8 (-0.1, 33.0)
Kagoshima	9,525	18.8 (0.7, 31.7)
Kanagawa	52,008	16.3 (0.3, 32.2)
Kochi	3,990	17.4 (-0.1, 31.3)
Kumamoto	10,108	17.3 (-0.7, 31.7)
Kyoto	15,552	16.2 (-1.2, 32.6)
Mie	12,875	16.3 (-0.3, 33.1)
Miyagi	15,139	12.9 (-4.5, 31.2)
Miyazaki	5,585	17.7 (0.8, 31.6)
Nagano	12,482	12.3 (-6.0, 30.0)
Nagasaki	6,873	17.4 (-0.3, 31.9)
Nara	8,795	15.1 (-1.1, 30.5)
Niigata	14,643	14.1 (-2.8, 31.5)
Oita	5,773	16.8 (-0.3, 31.7)
Okayama	10,035	16.5 (-0.9, 32.3)
Okinawa	6,458	23.3 (10.3, 31.1)
Osaka	51,337	17.1 (0.5, 32.7)
Saga	3,784	16.9 (-0.8, 32.3)
Saitama	41,183	15.5 (-0.8, 33.7)
Shiga	7,029	15.1 (-1.6, 31.8)
Shimane	5,459	15.2 (-1.6, 32.2)
Shizuoka	21,680	16.9 (1.7, 31.9)
Tochigi	14,023	14.4 (-2.5, 31.7)

Tokushima	3,569	16.8 (-0.4, 32.6)
Tokyo	79,006	16.6 (0.3, 33.2)
Tottori	4,309	15.2 (-2.0, 32.0)
Toyama	5,428	14.5 (-2.8, 32.2)
Wakayama	5,861	16.9 (0.9, 32.7)
Yamagata	8,929	12.1 (-5.8, 30.4)
Yamaguchi	8,156	15.8 (-2.1, 31.0)
Yamanashi	6,245	15.1 (-2.1, 31.8)

Table S2. Heat-related, cold-related, and net change in excess morbidity (%) with 95% eCI by prefecture and period under the RCP2.6 scenario.

		RCP2.6		
		2010–2019	2050–2059	2090–2099
Aichi	Heat	0.2 (-0.2, 0.6)	0.4 (-0.4, 1.3)	0.3 (-0.3, 0.9)
	Cold	19.0 (-2.3, 34.1)	17.7 (-3.3, 32.4)	18.0 (-3.2, 32.7)
	Net	-	-1.2 (-2.5, -0.1)	-0.9 (-1.9, -0.0)
Akita	Heat	0.5 (-0.0, 1.1)	0.8 (0.0, 1.7)	0.6 (0.0, 1.4)
	Cold	25.3 (1.2, 40.9)	24.0 (0.6, 39.3)	24.3 (0.6, 39.8)
	Net	-	-1.0 (-2.3, -0.1)	-0.9 (-2.0, 0.3)
Aomori	Heat	0.8 (0.2, 1.5)	1.3 (0.4, 2.4)	1.0 (0.2, 2.0)
	Cold	31.6 (8.5, 46.1)	30.2 (7.7, 44.5)	30.6 (7.9, 44.9)
	Net	-	-0.9 (-2.0, -0.0)	-0.8 (-2.0, 0.6)
Chiba	Heat	0.2 (-0.2, 0.6)	0.5 (-0.2, 1.3)	0.3 (-0.2, 0.9)
	Cold	16.2 (-3.5, 30.2)	15.0 (-4.2, 29.0)	15.4 (-4.1, 29.4)
	Net	-	-0.9 (-2.3, -0.0)	-0.7 (-1.8, 0.3)
Ehime	Heat	0.1 (-0.3, 0.4)	0.1 (-0.5, 0.8)	0.1 (-0.4, 0.6)
	Cold	22.3 (-2.2, 38.7)	21.0 (-3.2, 37.4)	21.3 (-3.0, 37.8)
	Net	-	-1.3 (-2.6, -0.2)	-1.0 (-2.0, 0.1)
Fukui	Heat	0.6 (-0.0, 1.2)	1.0 (0.0, 2.1)	0.9 (0.0, 1.7)
	Cold	27.6 (6.4, 42.0)	26.0 (4.8, 40.3)	26.5 (5.2, 40.7)
	Net	-	-1.1 (-2.3, 0.0)	-0.7 (-1.8, 0.5)
Fukuoka	Heat	-0.0 (-0.1, 0.1)	-0.0 (-0.5, 0.4)	-0.0 (-0.2, 0.2)
	Cold	30.9 (8.4, 46.7)	29.2 (7.5, 44.9)	29.7 (7.5, 45.3)
	Net	-	-1.7 (-3.4, -0.3)	-1.3 (-2.5, -0.2)
Fukushima	Heat	0.5 (0.1, 1.0)	0.9 (0.2, 1.8)	0.7 (0.2, 1.3)
	Cold	29.8 (10.9, 42.6)	28.3 (9.6, 41.0)	28.8 (9.8, 41.6)
	Net	-	-1.2 (-2.6, -0.2)	-0.9 (-2.3, 0.6)
Gifu	Heat	0.0 (-0.2, 0.3)	0.1 (-0.5, 0.7)	0.1 (-0.4, 0.5)
	Cold	20.0 (-7.9, 38.4)	18.6 (-8.7, 37.0)	19.0 (-8.8, 37.4)
	Net	-	-1.3 (-2.8, -0.1)	-1.0 (-2.0, -0.1)
Gunma	Heat	0.4 (-0.0, 0.8)	0.6 (-0.0, 1.5)	0.5 (-0.0, 1.1)
	Cold	25.0 (5.2, 39.0)	23.5 (3.8, 37.3)	23.9 (4.2, 37.8)
	Net	-	-1.2 (-2.7, -0.1)	-1.0 (-2.2, 0.2)
Hiroshima	Heat	0.0 (-0.2, 0.2)	0.0 (-0.5, 0.6)	0.0 (-0.4, 0.4)
	Cold	22.0 (-4.9, 40.4)	20.7 (-6.0, 38.9)	21.0 (-5.9, 39.2)
	Net	-	-1.3 (-2.8, -0.2)	-1.0 (-2.0, -0.0)
Hokkaido	Heat	0.6 (0.0, 1.4)	1.0 (0.1, 2.3)	0.9 (0.1, 1.9)
	Cold	22.2 (-5.2, 39.4)	21.2 (-5.2, 38.1)	21.3 (-5.1, 38.3)
	Net	-	-0.6 (-1.6, 0.7)	-0.6 (-1.8, 0.6)

Hyogo	Heat	0.0 (-0.1, 0.1)	0.0 (-0.2, 0.3)	0.0 (-0.1, 0.2)
	Cold	33.4 (14.5, 46.9)	31.8 (13.0, 45.5)	32.2 (13.3, 45.7)
	Net	-	-1.6 (-3.1, -0.2)	-1.2 (-2.3, -0.2)
Ibaraki	Heat	0.8 (0.2, 1.5)	1.4 (0.3, 2.8)	1.1 (0.3, 2.0)
	Cold	23.7 (0.2, 39.5)	22.4 (-0.6, 37.8)	22.8 (-0.6, 38.5)
	Net	-	-0.8 (-2.3, 0.0)	-0.6 (-2.1, 0.6)
Ishikawa	Heat	0.3 (-0.1, 0.8)	0.6 (-0.1, 1.8)	0.5 (-0.1, 1.1)
	Cold	26.0 (3.7, 41.2)	24.4 (2.2, 39.5)	24.8 (2.6, 39.9)
	Net	-	-1.3 (-2.8, -0.0)	-1.0 (-2.4, -0.1)
Iwate	Heat	1.1 (0.4, 1.9)	1.6 (0.6, 3.0)	1.3 (0.3, 2.5)
	Cold	26.6 (-0.6, 43.4)	25.5 (-1.1, 42.1)	25.8 (-1.2, 42.6)
	Net	-	-0.6 (-1.7, 0.4)	-0.5 (-1.8, 0.7)
Kagawa	Heat	0.1 (-0.3, 0.4)	0.2 (-0.5, 0.9)	0.1 (-0.4, 0.7)
	Cold	24.0 (-2.7, 41.6)	22.3 (-4.1, 39.8)	22.7 (-3.8, 40.1)
	Net	-	-1.6 (-3.1, -0.2)	-1.2 (-2.3, 0.1)
Kagoshima	Heat	-0.1 (-0.3, 0.1)	-0.3 (-1.2, 0.2)	-0.2 (-0.5, 0.1)
	Cold	30.0 (4.3, 47.5)	28.4 (3.4, 45.8)	28.9 (3.5, 46.2)
	Net	-	-1.8 (-4.1, -0.0)	-1.2 (-2.3, -0.0)
Kanagawa	Heat	0.4 (-0.0, 0.9)	0.7 (-0.0, 1.6)	0.6 (-0.0, 1.2)
	Cold	10.3 (-9.4, 24.6)	9.3 (-9.9, 23.3)	9.5 (-9.7, 23.6)
	Net	-	-0.7 (-1.8, 0.1)	-0.6 (-1.5, 0.4)
Kochi	Heat	0.1 (-0.4, 0.5)	0.2 (-0.7, 1.1)	0.2 (-0.6, 0.9)
	Cold	25.7 (1.4, 41.7)	24.2 (0.2, 40.2)	24.6 (0.6, 40.7)
	Net	-	-1.4 (-3.0, 0.1)	-1.0 (-2.2, 0.2)
Kumamoto	Heat	0.0 (-0.2, 0.2)	0.0 (-0.4, 0.5)	0.0 (-0.4, 0.5)
	Cold	20.4 (-6.7, 38.0)	19.1 (-7.6, 36.7)	19.5 (-7.3, 36.9)
	Net	-	-1.2 (-2.8, 0.3)	-0.9 (-2.0, 0.2)
Kyoto	Heat	0.1 (-0.2, 0.5)	0.3 (-0.4, 1.1)	0.2 (-0.3, 0.7)
	Cold	26.2 (4.2, 41.3)	24.5 (2.7, 39.6)	25.0 (3.1, 39.9)
	Net	-	-1.5 (-3.0, -0.2)	-1.1 (-2.3, -0.1)
Mie	Heat	0.1 (-0.2, 0.5)	0.3 (-0.3, 1.0)	0.2 (-0.3, 0.7)
	Cold	26.3 (5.3, 40.9)	24.7 (3.6, 39.4)	25.2 (4.0, 39.6)
	Net	-	-1.5 (-2.9, -0.1)	-1.1 (-2.1, -0.0)
Miyagi	Heat	0.6 (0.1, 1.1)	1.0 (0.2, 2.0)	0.7 (0.1, 1.5)
	Cold	17.2 (-7.2, 33.6)	16.1 (-7.4, 32.0)	16.4 (-7.5, 32.5)
	Net	-	-0.7 (-2.1, 0.2)	-0.7 (-2.0, 0.4)
Miyazaki	Heat	0.0 (-0.2, 0.3)	0.1 (-0.5, 0.6)	0.1 (-0.4, 0.5)
	Cold	21.4 (-4.2, 39.0)	20.1 (-4.9, 37.4)	20.5 (-4.7, 37.6)
	Net	-	-1.2 (-2.8, 0.2)	-0.9 (-2.0, 0.2)
Nagano	Heat	0.8 (0.3, 1.5)	1.5 (0.5, 3.1)	1.2 (0.4, 2.0)
	Cold	33.9 (15.2, 46.4)	32.4 (14.0, 44.7)	32.8 (14.5, 45.1)
	Net	-	-0.8 (-2.1, -0.2)	-0.7 (-2.0, 0.3)

Nagasaki	Heat	0.0 (-0.3, 0.3)	0.1 (-0.6, 0.8)	0.1 (-0.5, 0.6)
	Cold	23.5 (-2.0, 40.4)	21.9 (-3.0, 38.8)	22.3 (-3.1, 39.3)
	Net	-	-1.5 (-3.1, -0.1)	-1.2 (-2.3, -0.0)
Nara	Heat	1.1 (0.1, 2.1)	1.7 (0.2, 3.4)	1.6 (0.2, 3.0)
	Cold	26.7 (2.1, 42.2)	25.4 (1.5, 40.9)	25.8 (1.8, 41.2)
	Net	-	-0.7 (-1.9, 0.3)	-0.4 (-1.4, 0.8)
Niigata	Heat	0.5 (0.1, 1.0)	0.9 (0.2, 1.9)	0.7 (0.1, 1.3)
	Cold	30.4 (11.2, 43.7)	28.9 (10.0, 41.9)	29.3 (10.3, 42.4)
	Net	-	-1.2 (-2.5, -0.3)	-0.9 (-2.3, 0.2)
Oita	Heat	0.2 (-0.3, 0.8)	0.5 (-0.5, 1.4)	0.4 (-0.4, 1.1)
	Cold	19.6 (-5.1, 36.3)	18.2 (-6.0, 34.7)	18.6 (-5.6, 34.9)
	Net	-	-1.2 (-2.6, -0.1)	-0.9 (-2.0, 0.3)
Okayama	Heat	0.1 (-0.3, 0.5)	0.2 (-0.5, 1.1)	0.2 (-0.4, 0.8)
	Cold	23.0 (-1.8, 39.4)	21.4 (-3.0, 37.9)	21.8 (-2.6, 38.3)
	Net	-	-1.4 (-2.9, -0.2)	-1.1 (-2.2, -0.1)
Okinawa	Heat	2.1 (-5.7, 8.2)	3.0 (-7.4, 10.3)	3.0 (-7.4, 10.2)
	Cold	16.6 (-4.1, 30.5)	14.9 (-4.6, 28.7)	15.6 (-4.3, 29.0)
	Net	-	-0.8 (-5.7, 1.6)	-0.1 (-4.6, 2.6)
Osaka	Heat	0.2 (-0.3, 0.6)	0.3 (-0.5, 1.2)	0.2 (-0.4, 0.8)
	Cold	10.2 (-11.7, 25.9)	9.1 (-12.4, 24.6)	9.3 (-12.3, 24.8)
	Net	-	-0.9 (-2.2, -0.1)	-0.8 (-1.7, 0.0)
Saga	Heat	0.0 (-0.1, 0.1)	0.0 (-0.3, 0.3)	0.0 (-0.3, 0.3)
	Cold	24.9 (-4.4, 44.2)	23.4 (-4.9, 42.6)	23.8 (-4.9, 42.7)
	Net	-	-1.4 (-3.0, 0.0)	-1.1 (-2.2, 0.1)
Saitama	Heat	0.5 (-0.0, 1.0)	0.8 (0.0, 1.7)	0.7 (0.0, 1.3)
	Cold	16.7 (-1.6, 29.5)	15.2 (-2.4, 28.4)	15.7 (-2.2, 28.6)
	Net	-	-1.2 (-2.7, -0.1)	-0.9 (-2.1, 0.2)
Shiga	Heat	0.8 (-0.1, 1.5)	1.3 (0.1, 2.9)	1.1 (0.1, 2.1)
	Cold	20.4 (-1.9, 35.6)	18.8 (-3.4, 34.2)	19.2 (-3.2, 34.5)
	Net	-	-1.1 (-2.5, -0.1)	-0.8 (-2.1, 0.2)
Shimane	Heat	0.2 (-0.1, 0.5)	0.3 (-0.2, 1.2)	0.2 (-0.2, 0.7)
	Cold	30.3 (8.2, 44.5)	28.7 (7.2, 43.1)	29.1 (7.5, 43.4)
	Net	-	-1.3 (-2.6, -0.3)	-1.1 (-2.2, -0.1)
Shizuoka	Heat	0.3 (-0.2, 0.8)	0.5 (-0.4, 1.5)	0.4 (-0.3, 1.1)
	Cold	14.1 (-13.2, 32.0)	13.1 (-13.2, 30.7)	13.3 (-13.4, 31.0)
	Net	-	-0.8 (-2.2, 0.2)	-0.7 (-1.7, 0.1)
Tochigi	Heat	0.5 (0.0, 1.0)	0.9 (0.1, 1.8)	0.7 (0.1, 1.3)
	Cold	20.4 (0.5, 35.9)	19.1 (-0.2, 34.4)	19.4 (-0.1, 34.8)
	Net	-	-1.0 (-2.2, -0.1)	-0.8 (-1.8, 0.2)
Tokushima	Heat	0.0 (-0.2, 0.2)	0.1 (-0.4, 0.6)	0.0 (-0.3, 0.4)
	Cold	22.5 (-5.5, 41.0)	21.0 (-6.5, 39.3)	21.4 (-6.2, 39.9)
	Net	-	-1.4 (-3.2, -0.1)	-1.1 (-2.3, 0.1)

Tokyo	Heat	0.7 (-0.2, 1.6)	1.1 (-0.3, 2.7)	0.9 (-0.2, 2.0)
	Cold	7.7 (-28.7, 30.0)	6.8 (-28.4, 28.8)	7.1 (-28.7, 29.2)
	Net	-	-0.4 (-2.0, 1.1)	-0.4 (-1.7, 0.5)
Tottori	Heat	0.4 (-0.2, 0.9)	0.6 (-0.2, 1.8)	0.5 (-0.2, 1.2)
	Cold	20.3 (-5.0, 37.4)	18.9 (-6.1, 35.8)	19.2 (-5.9, 36.1)
	Net	-	-1.1 (-2.6, 0.1)	-0.9 (-2.2, 0.0)
Toyama	Heat	0.4 (-0.1, 0.9)	0.7 (-0.1, 2.1)	0.5 (-0.1, 1.2)
	Cold	28.3 (7.0, 42.9)	26.8 (5.7, 41.0)	27.1 (6.2, 41.4)
	Net	-	-1.2 (-2.6, -0.3)	-1.0 (-2.2, 0.0)
Wakayama	Heat	0.1 (-0.3, 0.5)	0.3 (-0.4, 1.2)	0.2 (-0.4, 0.8)
	Cold	22.0 (-2.5, 38.6)	20.5 (-3.9, 36.9)	20.9 (-3.4, 37.0)
	Net	-	-1.4 (-2.9, -0.0)	-1.1 (-2.2, 0.0)
Yamagata	Heat	0.8 (0.2, 1.5)	1.3 (0.3, 2.6)	1.2 (0.3, 2.0)
	Cold	30.2 (8.0, 44.4)	28.9 (7.2, 42.9)	29.2 (7.5, 43.3)
	Net	-	-0.8 (-1.8, -0.0)	-0.6 (-1.4, 0.4)
Yamaguchi	Heat	0.3 (-0.2, 0.9)	0.6 (-0.3, 1.7)	0.4 (-0.3, 1.3)
	Cold	29.6 (10.4, 44.1)	28.0 (9.5, 42.4)	28.5 (9.6, 43.1)
	Net	-	-1.3 (-2.9, -0.1)	-1.0 (-2.4, 0.4)
Yamanashi	Heat	0.4 (-0.2, 0.9)	0.8 (-0.1, 1.9)	0.6 (-0.1, 1.3)
	Cold	20.9 (-2.0, 36.8)	19.5 (-3.4, 35.2)	19.9 (-3.1, 35.5)
	Net	-	-1.0 (-2.4, -0.0)	-0.9 (-1.9, 0.1)

Table S3. Heat-related, cold-related, and net change in excess morbidity (%) with 95% eCI by prefecture and period under the RCP4.5 scenario.

		RCP4.5		
		2010–2019	2050–2059	2090–2099
Aichi	Heat	0.2 (-0.2, 0.5)	0.5 (-0.4, 1.4)	0.6 (-0.5, 1.7)
	Cold	19.3 (-2.1, 34.2)	16.7 (-4.3, 31.4)	15.9 (-4.5, 30.4)
	Net	-	-2.3 (-3.4, -1.2)	-3.0 (-4.7, -1.2)
Akita	Heat	0.3 (-0.0, 0.8)	1.0 (0.1, 1.9)	1.2 (0.2, 2.5)
	Cold	25.6 (1.5, 41.1)	23.0 (-0.1, 38.1)	22.2 (-0.3, 37.1)
	Net	-	-1.9 (-3.3, -0.6)	-2.5 (-4.5, -0.7)
Aomori	Heat	0.6 (0.1, 1.2)	1.6 (0.6, 2.7)	2.0 (0.7, 3.7)
	Cold	31.8 (8.7, 46.3)	29.1 (7.4, 43.2)	28.2 (6.8, 42.0)
	Net	-	-1.6 (-3.3, -0.0)	-2.2 (-4.3, -0.2)
Chiba	Heat	0.2 (-0.1, 0.5)	0.6 (-0.3, 1.3)	0.7 (-0.3, 1.8)
	Cold	16.4 (-3.3, 30.5)	14.2 (-4.7, 27.9)	13.5 (-4.8, 27.0)
	Net	-	-1.8 (-3.0, -0.7)	-2.4 (-4.3, -0.7)
Ehime	Heat	0.0 (-0.2, 0.3)	0.2 (-0.6, 0.9)	0.2 (-0.8, 1.1)
	Cold	22.5 (-2.1, 38.9)	20.0 (-3.8, 36.3)	19.1 (-4.2, 35.4)
	Net	-	-2.4 (-3.6, -1.3)	-3.2 (-5.3, -1.3)
Fukui	Heat	0.5 (-0.1, 1.0)	1.0 (0.0, 2.0)	1.2 (0.1, 2.4)
	Cold	27.8 (6.6, 42.3)	25.0 (4.1, 39.2)	24.0 (3.2, 38.2)
	Net	-	-2.2 (-3.3, -1.3)	-3.0 (-4.9, -1.2)
Fukuoka	Heat	-0.0 (-0.1, 0.1)	-0.0 (-0.3, 0.3)	-0.0 (-0.6, 0.5)
	Cold	31.2 (8.7, 47.0)	28.1 (6.2, 43.6)	27.0 (5.7, 42.7)
	Net	-	-3.1 (-4.3, -1.9)	-4.2 (-6.4, -2.0)
Fukushima	Heat	0.4 (0.1, 0.8)	1.0 (0.3, 1.8)	1.2 (0.3, 2.4)
	Cold	30.1 (11.2, 42.9)	27.3 (8.8, 39.9)	26.3 (8.2, 38.8)
	Net	-	-2.2 (-3.3, -1.1)	-2.9 (-4.7, -1.4)
Gifu	Heat	0.0 (-0.2, 0.2)	0.1 (-0.6, 0.8)	0.1 (-0.8, 1.0)
	Cold	20.3 (-7.6, 38.6)	17.6 (-9.5, 35.8)	16.8 (-9.9, 34.8)
	Net	-	-2.6 (-3.8, -1.5)	-3.4 (-5.3, -1.4)
Gunma	Heat	0.3 (-0.1, 0.6)	0.7 (-0.0, 1.5)	0.9 (0.0, 2.0)
	Cold	25.3 (5.5, 39.3)	22.4 (3.0, 36.1)	21.4 (2.4, 35.0)
	Net	-	-2.4 (-3.5, -1.4)	-3.2 (-4.9, -1.6)
Hiroshima	Heat	0.0 (-0.2, 0.2)	0.0 (-0.5, 0.5)	0.1 (-0.7, 0.7)
	Cold	22.2 (-4.9, 40.7)	19.7 (-7.0, 37.8)	18.9 (-7.3, 36.9)
	Net	-	-2.5 (-3.6, -1.3)	-3.3 (-5.3, -1.2)
Hokkaido	Heat	0.4 (-0.0, 1.0)	1.4 (0.2, 2.8)	1.8 (0.3, 3.8)
	Cold	22.3 (-5.1, 39.6)	20.7 (-4.7, 37.1)	20.1 (-4.2, 36.2)
	Net	-	-0.6 (-2.4, 1.6)	-0.8 (-3.1, 2.4)

Hyogo	Heat	0.0 (-0.1, 0.1)	0.0 (-0.3, 0.4)	0.1 (-0.4, 0.5)
	Cold	33.7 (14.7, 47.3)	30.7 (12.2, 44.1)	29.6 (11.2, 43.2)
	Net	-	-3.0 (-4.1, -1.9)	-4.0 (-5.8, -2.1)
Ibaraki	Heat	0.7 (0.1, 1.2)	1.6 (0.4, 2.8)	1.9 (0.5, 3.6)
	Cold	23.9 (0.4, 39.7)	21.4 (-1.0, 36.8)	20.5 (-1.6, 35.6)
	Net	-	-1.6 (-2.8, -0.2)	-2.1 (-4.1, -0.2)
Ishikawa	Heat	0.2 (-0.1, 0.6)	0.7 (-0.1, 1.5)	0.9 (-0.0, 2.1)
	Cold	26.2 (3.9, 41.5)	23.3 (1.4, 38.3)	22.3 (0.7, 37.2)
	Net	-	-2.5 (-3.5, -1.4)	-3.3 (-5.1, -1.5)
Iwate	Heat	0.8 (0.2, 1.5)	2.0 (0.8, 3.2)	2.4 (0.9, 4.2)
	Cold	26.8 (-0.5, 43.6)	24.6 (-1.4, 40.9)	23.9 (-1.4, 40.0)
	Net	-	-1.0 (-2.7, 0.7)	-1.4 (-3.4, 0.9)
Kagawa	Heat	0.1 (-0.2, 0.4)	0.2 (-0.6, 1.0)	0.3 (-0.7, 1.2)
	Cold	24.1 (-2.7, 41.9)	21.0 (-5.4, 38.4)	19.9 (-6.2, 37.3)
	Net	-	-3.0 (-4.1, -2.0)	-4.0 (-6.0, -2.0)
Kagoshima	Heat	-0.1 (-0.2, 0.0)	-0.4 (-1.4, 0.3)	-0.6 (-2.2, 0.4)
	Cold	30.3 (4.5, 47.8)	27.2 (2.4, 44.3)	26.2 (1.8, 43.2)
	Net	-	-3.4 (-5.4, -1.9)	-4.6 (-7.7, -2.0)
Kanagawa	Heat	0.4 (-0.1, 0.8)	0.9 (0.0, 1.7)	1.0 (0.0, 2.1)
	Cold	10.4 (-9.5, 24.8)	8.5 (-10.3, 22.3)	7.9 (-10.3, 21.4)
	Net	-	-1.4 (-2.5, -0.1)	-1.8 (-3.7, 0.0)
Kochi	Heat	0.1 (-0.3, 0.4)	0.2 (-0.8, 1.2)	0.3 (-1.0, 1.5)
	Cold	25.9 (1.2, 42.1)	23.2 (-0.5, 39.1)	22.2 (-1.0, 38.0)
	Net	-	-2.5 (-3.9, -1.3)	-3.4 (-5.9, -1.2)
Kumamoto	Heat	0.0 (-0.2, 0.2)	0.1 (-0.5, 0.6)	0.1 (-0.7, 0.8)
	Cold	20.5 (-6.9, 38.1)	18.2 (-8.5, 35.5)	17.3 (-8.7, 34.6)
	Net	-	-2.3 (-3.4, -1.2)	-3.1 (-5.3, -0.9)
Kyoto	Heat	0.1 (-0.2, 0.4)	0.3 (-0.5, 1.2)	0.4 (-0.6, 1.4)
	Cold	26.4 (4.3, 41.6)	23.4 (1.6, 38.4)	22.4 (0.9, 37.3)
	Net	-	-2.7 (-3.8, -1.8)	-3.7 (-5.5, -1.9)
Mie	Heat	0.1 (-0.2, 0.4)	0.4 (-0.4, 1.1)	0.5 (-0.5, 1.4)
	Cold	26.6 (5.4, 41.1)	23.5 (2.7, 37.8)	22.5 (2.0, 36.9)
	Net	-	-2.8 (-3.9, -1.8)	-3.7 (-5.6, -1.9)
Miyagi	Heat	0.4 (0.0, 0.9)	1.1 (0.3, 2.0)	1.4 (0.3, 2.7)
	Cold	17.4 (-6.9, 33.7)	15.3 (-7.7, 30.9)	14.6 (-7.6, 30.0)
	Net	-	-1.4 (-2.8, 0.1)	-1.9 (-3.9, 0.3)
Miyazaki	Heat	0.0 (-0.2, 0.2)	0.1 (-0.6, 0.7)	0.1 (-0.7, 1.0)
	Cold	21.5 (-4.1, 39.3)	19.2 (-5.4, 36.4)	18.4 (-5.8, 35.1)
	Net	-	-2.2 (-3.5, -0.8)	-3.0 (-5.3, -0.7)
Nagano	Heat	0.6 (0.2, 1.1)	1.7 (0.6, 2.8)	2.1 (0.7, 3.7)
	Cold	34.0 (15.4, 46.5)	31.5 (13.3, 43.7)	30.5 (12.5, 42.8)
	Net	-	-1.5 (-2.7, -0.5)	-2.1 (-3.8, -0.5)

Nagasaki	Heat	0.0 (-0.2, 0.3)	0.1 (-0.7, 0.9)	0.2 (-0.9, 1.2)
	Cold	23.7 (-2.1, 40.7)	20.8 (-3.9, 37.5)	19.8 (-4.4, 36.5)
	Net	-	-2.8 (-4.3, -1.5)	-3.8 (-6.0, -1.5)
Nara	Heat	0.9 (0.1, 1.8)	1.9 (0.3, 3.4)	2.3 (0.4, 4.0)
	Cold	26.9 (2.1, 42.6)	24.5 (0.7, 39.8)	23.5 (0.2, 38.8)
	Net	-	-1.4 (-2.7, -0.2)	-2.1 (-4.3, 0.0)
Niigata	Heat	0.4 (0.0, 0.7)	1.0 (0.2, 1.8)	1.2 (0.3, 2.5)
	Cold	30.6 (11.4, 43.9)	27.9 (9.4, 40.9)	26.9 (8.8, 39.8)
	Net	-	-2.0 (-3.2, -1.0)	-2.8 (-4.6, -1.2)
Oita	Heat	0.2 (-0.3, 0.6)	0.5 (-0.5, 1.5)	0.6 (-0.6, 1.8)
	Cold	19.8 (-5.0, 36.7)	17.2 (-6.6, 33.5)	16.3 (-7.1, 32.3)
	Net	-	-2.2 (-3.5, -1.0)	-3.1 (-5.3, -1.0)
Okayama	Heat	0.1 (-0.2, 0.4)	0.3 (-0.6, 1.1)	0.3 (-0.7, 1.4)
	Cold	23.1 (-1.7, 39.7)	20.3 (-4.1, 36.7)	19.3 (-4.6, 35.6)
	Net	-	-2.7 (-3.8, -1.7)	-3.6 (-5.5, -1.7)
Okinawa	Heat	2.1 (-5.8, 8.2)	3.7 (-8.2, 11.7)	4.4 (-10.5, 13.4)
	Cold	16.7 (-4.2, 30.7)	13.7 (-5.5, 26.6)	12.5 (-5.3, 24.9)
	Net	-	-1.4 (-7.7, 2.8)	-1.9 (-12.5, 4.6)
Osaka	Heat	0.1 (-0.2, 0.5)	0.4 (-0.5, 1.3)	0.5 (-0.6, 1.6)
	Cold	10.3 (-11.6, 26.1)	8.2 (-13.1, 23.5)	7.6 (-13.3, 22.7)
	Net	-	-1.9 (-2.9, -0.8)	-2.4 (-4.2, -0.6)
Saga	Heat	0.0 (-0.1, 0.1)	0.0 (-0.3, 0.3)	0.0 (-0.5, 0.4)
	Cold	25.1 (-4.3, 44.6)	22.4 (-6.1, 41.5)	21.5 (-6.4, 40.5)
	Net	-	-2.6 (-3.8, -1.3)	-3.5 (-5.7, -1.0)
Saitama	Heat	0.4 (-0.1, 0.8)	0.9 (0.1, 1.8)	1.1 (0.1, 2.2)
	Cold	17.0 (-1.2, 29.8)	14.0 (-3.9, 26.8)	13.0 (-4.3, 26.0)
	Net	-	-2.5 (-3.4, -1.5)	-3.2 (-4.9, -1.6)
Shiga	Heat	0.6 (-0.1, 1.3)	1.5 (0.2, 2.8)	1.8 (0.3, 3.5)
	Cold	20.6 (-1.8, 35.7)	17.7 (-4.2, 32.8)	16.7 (-5.1, 31.7)
	Net	-	-2.0 (-3.0, -1.0)	-2.8 (-4.5, -1.0)
Shimane	Heat	0.1 (-0.1, 0.4)	0.3 (-0.2, 0.9)	0.4 (-0.2, 1.3)
	Cold	30.5 (8.2, 44.8)	27.7 (6.2, 41.9)	26.7 (5.6, 40.9)
	Net	-	-2.6 (-3.7, -1.6)	-3.5 (-5.3, -1.6)
Shizuoka	Heat	0.2 (-0.2, 0.6)	0.6 (-0.4, 1.7)	0.8 (-0.5, 2.2)
	Cold	14.3 (-13.1, 32.2)	12.2 (-13.6, 29.6)	11.6 (-13.5, 28.7)
	Net	-	-1.7 (-3.0, -0.0)	-2.1 (-4.3, 0.3)
Tochigi	Heat	0.4 (0.0, 0.8)	1.0 (0.1, 1.9)	1.2 (0.2, 2.2)
	Cold	20.5 (0.4, 36.1)	18.1 (-1.1, 33.2)	17.3 (-1.4, 32.2)
	Net	-	-1.9 (-2.9, -0.9)	-2.5 (-4.3, -0.9)
Tokushima	Heat	0.0 (-0.1, 0.1)	0.1 (-0.5, 0.6)	0.1 (-0.7, 0.9)
	Cold	22.8 (-5.2, 41.4)	19.9 (-7.1, 38.1)	19.0 (-7.6, 36.9)
	Net	-	-2.8 (-4.2, -1.5)	-3.7 (-5.9, -1.6)

Tokyo	Heat	0.6 (-0.2, 1.3)	1.3 (-0.3, 2.9)	1.6 (-0.3, 3.5)
	Cold	7.9 (-28.5, 30.2)	6.1 (-28.8, 27.6)	5.7 (-28.1, 26.9)
	Net	-	-1.0 (-2.5, 1.4)	-1.2 (-3.7, 2.3)
Tottori	Heat	0.3 (-0.1, 0.7)	0.7 (-0.2, 1.6)	0.9 (-0.2, 2.2)
	Cold	20.6 (-4.8, 37.7)	17.8 (-7.0, 34.6)	16.9 (-7.3, 33.5)
	Net	-	-2.3 (-3.3, -1.1)	-3.0 (-4.8, -1.1)
Toyama	Heat	0.3 (-0.1, 0.6)	0.7 (-0.1, 1.6)	0.9 (-0.1, 2.2)
	Cold	28.5 (7.1, 43.0)	25.7 (4.9, 39.9)	24.7 (4.3, 38.7)
	Net	-	-2.3 (-3.4, -1.4)	-3.2 (-4.9, -1.5)
Wakayama	Heat	0.1 (-0.2, 0.4)	0.4 (-0.5, 1.3)	0.5 (-0.6, 1.6)
	Cold	22.2 (-2.3, 38.9)	19.3 (-4.7, 35.5)	18.3 (-5.3, 34.3)
	Net	-	-2.7 (-3.9, -1.6)	-3.6 (-5.6, -1.6)
Yamagata	Heat	0.7 (0.1, 1.2)	1.4 (0.4, 2.3)	1.6 (0.5, 2.8)
	Cold	30.3 (8.0, 44.7)	28.1 (6.6, 42.1)	27.2 (6.2, 41.0)
	Net	-	-1.6 (-2.6, -0.5)	-2.2 (-3.9, -0.5)
Yamaguchi	Heat	0.2 (-0.2, 0.7)	0.7 (-0.3, 1.8)	0.9 (-0.4, 2.3)
	Cold	29.9 (10.7, 44.4)	26.9 (8.7, 41.2)	25.9 (7.7, 40.1)
	Net	-	-2.5 (-3.9, -1.3)	-3.3 (-5.5, -1.6)
Yamanashi	Heat	0.3 (-0.2, 0.8)	0.9 (-0.1, 1.9)	1.1 (-0.1, 2.4)
	Cold	21.2 (-1.9, 37.0)	18.4 (-4.2, 33.9)	17.5 (-4.8, 33.0)
	Net	-	-2.2 (-3.3, -1.2)	-2.9 (-4.6, -1.2)

Table S4. Heat-related, cold-related, and net change in excess morbidity (%) with 95% eCI by prefecture and period under the RCP6.0 scenario.

		RCP6.0		
		2010–2019	2050–2059	2090–2099
Aichi	Heat	0.2 (-0.2, 0.5)	0.4 (-0.4, 1.1)	0.9 (-0.6, 2.6)
	Cold	19.5 (-1.9, 34.6)	17.2 (-3.7, 31.8)	14.8 (-5.2, 29.1)
	Net	-	-2.1 (-3.3, -1.3)	-3.9 (-6.2, -1.9)
Akita	Heat	0.3 (-0.0, 0.7)	0.7 (0.0, 1.3)	1.8 (0.4, 3.8)
	Cold	25.7 (1.6, 41.4)	23.7 (0.6, 39.0)	21.2 (-0.7, 35.9)
	Net	-	-1.7 (-3.2, -0.6)	-3.0 (-5.9, -0.3)
Aomori	Heat	0.7 (0.2, 1.2)	1.2 (0.4, 2.0)	2.8 (1.1, 5.1)
	Cold	31.9 (8.7, 46.5)	30.0 (7.9, 44.2)	27.1 (6.7, 40.9)
	Net	-	-1.5 (-3.1, -0.3)	-2.6 (-5.8, 0.3)
Chiba	Heat	0.2 (-0.2, 0.6)	0.4 (-0.2, 1.1)	1.0 (-0.3, 2.6)
	Cold	16.6 (-3.1, 30.7)	14.7 (-4.3, 28.6)	12.7 (-5.2, 26.1)
	Net	-	-1.8 (-3.0, -0.7)	-3.2 (-5.5, -0.8)
Ehime	Heat	0.1 (-0.2, 0.3)	0.1 (-0.4, 0.6)	0.4 (-1.1, 1.8)
	Cold	22.7 (-2.0, 39.2)	20.5 (-3.4, 36.9)	18.0 (-4.4, 33.9)
	Net	-	-2.2 (-3.3, -1.2)	-4.4 (-6.7, -2.1)
Fukui	Heat	0.5 (-0.1, 1.0)	0.8 (-0.0, 1.7)	1.8 (0.3, 3.5)
	Cold	28.0 (6.8, 42.4)	25.5 (4.5, 39.8)	22.8 (2.5, 36.7)
	Net	-	-2.2 (-3.2, -1.3)	-4.0 (-6.1, -2.1)
Fukuoka	Heat	-0.0 (-0.1, 0.1)	-0.0 (-0.2, 0.2)	-0.0 (-1.1, 0.9)
	Cold	31.5 (9.0, 47.3)	28.7 (6.9, 44.3)	25.6 (4.7, 40.9)
	Net	-	-2.8 (-4.1, -1.7)	-5.9 (-8.6, -3.7)
Fukushima	Heat	0.4 (0.1, 0.8)	0.8 (0.2, 1.4)	1.7 (0.5, 3.7)
	Cold	30.3 (11.3, 43.2)	27.9 (9.4, 40.6)	25.1 (7.5, 37.5)
	Net	-	-2.1 (-3.6, -1.1)	-3.9 (-6.5, -2.0)
Gifu	Heat	0.0 (-0.2, 0.2)	0.1 (-0.5, 0.6)	0.2 (-1.2, 1.6)
	Cold	20.6 (-7.3, 38.9)	18.1 (-9.0, 36.6)	15.7 (-10.1, 33.6)
	Net	-	-2.4 (-3.6, -1.5)	-4.7 (-7.0, -2.4)
Gunma	Heat	0.3 (-0.1, 0.6)	0.6 (-0.0, 1.2)	1.3 (0.1, 3.1)
	Cold	25.6 (5.8, 39.5)	23.0 (3.5, 36.7)	20.2 (1.6, 33.6)
	Net	-	-2.3 (-3.5, -1.5)	-4.3 (-6.6, -2.5)
Hiroshima	Heat	0.0 (-0.2, 0.2)	0.0 (-0.3, 0.4)	0.1 (-1.2, 1.3)
	Cold	22.4 (-4.7, 40.8)	20.2 (-6.3, 38.3)	17.8 (-7.8, 35.6)
	Net	-	-2.2 (-3.3, -1.3)	-4.5 (-6.9, -2.2)
Hokkaido	Heat	0.4 (-0.0, 0.9)	1.0 (0.1, 2.0)	2.8 (0.6, 5.3)
	Cold	22.4 (-5.1, 39.7)	21.2 (-4.6, 37.8)	19.6 (-3.6, 35.1)
	Net	-	-0.7 (-2.3, 1.1)	-0.5 (-3.3, 4.3)

Hyogo	Heat	0.0 (-0.1, 0.1)	0.0 (-0.2, 0.2)	0.1 (-0.7, 1.0)
	Cold	33.9 (14.9, 47.5)	31.3 (12.6, 44.8)	28.3 (10.4, 41.6)
	Net	-	-2.7 (-4.0, -1.7)	-5.6 (-7.8, -3.7)
Ibaraki	Heat	0.7 (0.1, 1.3)	1.2 (0.3, 2.2)	2.6 (0.8, 5.3)
	Cold	24.2 (0.4, 39.9)	22.0 (-1.0, 37.3)	19.5 (-2.0, 34.5)
	Net	-	-1.7 (-3.1, -0.6)	-2.8 (-5.6, 0.0)
Ishikawa	Heat	0.2 (-0.1, 0.5)	0.6 (-0.1, 1.2)	1.4 (0.1, 3.3)
	Cold	26.5 (4.1, 41.8)	23.8 (1.8, 38.8)	21.0 (0.0, 35.6)
	Net	-	-2.4 (-3.7, -1.5)	-4.4 (-7.0, -2.4)
Iwate	Heat	0.9 (0.3, 1.5)	1.5 (0.6, 2.4)	3.3 (1.4, 5.8)
	Cold	27.0 (-0.4, 43.8)	25.3 (-1.0, 41.6)	23.0 (-1.4, 38.7)
	Net	-	-1.1 (-2.8, 0.3)	-1.6 (-4.4, 1.8)
Kagawa	Heat	0.1 (-0.3, 0.4)	0.1 (-0.5, 0.7)	0.4 (-1.0, 1.8)
	Cold	24.5 (-2.2, 42.0)	21.7 (-4.7, 39.0)	18.7 (-7.1, 35.8)
	Net	-	-2.7 (-4.0, -1.9)	-5.4 (-7.8, -3.5)
Kagoshima	Heat	-0.1 (-0.2, 0.0)	-0.2 (-0.9, 0.2)	-0.9 (-3.8, 0.7)
	Cold	30.6 (4.8, 48.2)	28.0 (3.0, 45.3)	25.0 (1.3, 41.8)
	Net	-	-2.8 (-4.6, -1.6)	-6.4 (-10.5, -3.5)
Kanagawa	Heat	0.4 (-0.1, 0.8)	0.7 (-0.0, 1.3)	1.5 (0.2, 3.2)
	Cold	10.6 (-9.2, 25.0)	8.9 (-9.9, 22.7)	7.3 (-10.3, 20.3)
	Net	-	-1.4 (-2.5, -0.3)	-2.2 (-4.4, 0.4)
Kochi	Heat	0.1 (-0.3, 0.4)	0.2 (-0.6, 0.8)	0.5 (-1.4, 2.2)
	Cold	26.2 (1.5, 42.3)	23.8 (-0.2, 39.8)	21.0 (-1.6, 36.5)
	Net	-	-2.3 (-3.5, -1.3)	-4.7 (-7.3, -2.2)
Kumamoto	Heat	0.0 (-0.2, 0.2)	0.0 (-0.3, 0.4)	0.1 (-1.0, 1.1)
	Cold	20.7 (-6.6, 38.4)	18.6 (-7.9, 36.1)	16.3 (-9.4, 33.3)
	Net	-	-2.1 (-3.2, -1.2)	-4.3 (-6.4, -2.1)
Kyoto	Heat	0.1 (-0.2, 0.4)	0.2 (-0.4, 0.9)	0.7 (-0.8, 2.2)
	Cold	26.7 (4.8, 41.8)	24.0 (2.2, 38.8)	21.1 (0.1, 35.8)
	Net	-	-2.6 (-3.8, -1.8)	-5.0 (-7.3, -3.2)
Mie	Heat	0.1 (-0.2, 0.4)	0.3 (-0.3, 0.9)	0.7 (-0.6, 2.2)
	Cold	26.9 (5.8, 41.4)	24.1 (3.3, 38.6)	21.3 (1.3, 35.7)
	Net	-	-2.6 (-3.8, -1.8)	-5.0 (-7.3, -3.1)
Miyagi	Heat	0.5 (0.1, 0.9)	0.9 (0.2, 1.5)	2.0 (0.6, 4.1)
	Cold	17.7 (-6.8, 33.9)	15.9 (-7.5, 31.6)	13.9 (-7.5, 28.8)
	Net	-	-1.4 (-3.0, -0.1)	-2.3 (-5.1, 1.0)
Miyazaki	Heat	0.0 (-0.2, 0.2)	0.1 (-0.4, 0.5)	0.2 (-1.1, 1.4)
	Cold	21.7 (-3.9, 39.4)	19.7 (-5.1, 36.9)	17.5 (-6.2, 33.9)
	Net	-	-2.0 (-3.3, -0.8)	-4.1 (-6.6, -1.4)
Nagano	Heat	0.7 (0.2, 1.1)	1.3 (0.5, 2.2)	3.1 (1.3, 5.8)
	Cold	34.3 (15.6, 46.9)	31.9 (13.9, 44.2)	29.2 (11.8, 41.2)
	Net	-	-1.8 (-2.9, -0.9)	-2.8 (-5.4, -0.6)

Nagasaki	Heat	0.0 (-0.2, 0.3)	0.1 (-0.5, 0.7)	0.3 (-1.4, 2.0)
	Cold	24.0 (-1.6, 41.0)	21.4 (-3.5, 38.2)	18.6 (-4.8, 34.8)
	Net	-	-2.5 (-4.1, -1.5)	-5.1 (-8.1, -2.5)
Nara	Heat	1.0 (0.1, 1.8)	1.5 (0.2, 2.8)	3.0 (0.6, 5.2)
	Cold	27.1 (2.4, 42.7)	24.9 (0.9, 40.3)	22.4 (-0.6, 37.4)
	Net	-	-1.7 (-2.9, -0.6)	-2.8 (-5.3, -0.4)
Niigata	Heat	0.4 (0.0, 0.7)	0.8 (0.1, 1.4)	1.9 (0.5, 4.1)
	Cold	30.9 (11.6, 44.2)	28.4 (9.8, 41.4)	25.7 (8.0, 38.4)
	Net	-	-2.0 (-3.5, -1.0)	-3.6 (-6.2, -1.4)
Oita	Heat	0.2 (-0.3, 0.7)	0.4 (-0.5, 1.2)	1.0 (-0.8, 2.7)
	Cold	20.0 (-4.7, 36.8)	17.7 (-6.1, 34.1)	15.2 (-7.6, 30.9)
	Net	-	-2.1 (-3.4, -1.1)	-4.1 (-6.6, -1.5)
Okayama	Heat	0.1 (-0.2, 0.4)	0.2 (-0.5, 0.8)	0.6 (-1.0, 2.2)
	Cold	23.4 (-1.3, 39.9)	20.8 (-3.5, 37.1)	18.1 (-5.3, 34.0)
	Net	-	-2.5 (-3.6, -1.7)	-4.8 (-7.2, -2.8)
Okinawa	Heat	2.1 (-5.7, 8.0)	3.2 (-7.7, 10.5)	5.2 (-13.8, 15.5)
	Cold	16.8 (-4.1, 30.9)	14.3 (-5.1, 27.6)	11.6 (-5.8, 23.9)
	Net	-	-1.4 (-5.9, 1.9)	-2.1 (-16.6, 6.0)
Osaka	Heat	0.1 (-0.3, 0.5)	0.3 (-0.4, 1.0)	0.7 (-0.8, 2.3)
	Cold	10.6 (-11.2, 26.3)	8.7 (-12.6, 24.1)	6.9 (-13.2, 21.7)
	Net	-	-1.8 (-2.8, -0.7)	-3.1 (-5.3, -0.7)
Saga	Heat	0.0 (-0.1, 0.1)	0.0 (-0.2, 0.2)	0.0 (-0.8, 0.7)
	Cold	25.3 (-4.0, 44.8)	23.0 (-5.6, 42.0)	20.4 (-7.3, 39.1)
	Net	-	-2.3 (-3.4, -1.3)	-4.9 (-7.1, -2.6)
Saitama	Heat	0.4 (-0.0, 0.9)	0.7 (0.0, 1.5)	1.5 (0.3, 3.2)
	Cold	17.3 (-0.7, 30.3)	14.7 (-3.1, 27.5)	12.0 (-5.1, 24.7)
	Net	-	-2.4 (-3.6, -1.7)	-4.3 (-6.5, -2.7)
Shiga	Heat	0.7 (-0.1, 1.3)	1.2 (0.1, 2.3)	2.5 (0.6, 5.1)
	Cold	20.8 (-1.6, 36.1)	18.2 (-3.9, 33.4)	15.5 (-5.6, 30.4)
	Net	-	-2.1 (-3.3, -1.3)	-3.5 (-6.1, -1.3)
Shimane	Heat	0.1 (-0.1, 0.4)	0.2 (-0.2, 0.7)	0.8 (-0.3, 2.3)
	Cold	30.8 (8.6, 45.2)	28.2 (6.7, 42.4)	25.4 (4.9, 39.4)
	Net	-	-2.4 (-3.7, -1.5)	-4.7 (-7.1, -2.6)
Shizuoka	Heat	0.2 (-0.2, 0.7)	0.5 (-0.4, 1.3)	1.1 (-0.6, 3.1)
	Cold	14.5 (-12.9, 32.6)	12.7 (-13.5, 30.2)	10.9 (-13.5, 27.5)
	Net	-	-1.6 (-2.9, -0.2)	-2.7 (-5.4, 0.7)
Tochigi	Heat	0.5 (0.0, 0.9)	0.8 (0.1, 1.5)	1.7 (0.4, 3.3)
	Cold	20.8 (0.8, 36.3)	18.6 (-0.7, 33.9)	16.2 (-2.1, 30.8)
	Net	-	-1.9 (-3.1, -1.1)	-3.3 (-5.5, -1.4)
Tokushima	Heat	0.0 (-0.1, 0.1)	0.1 (-0.3, 0.4)	0.2 (-1.1, 1.7)
	Cold	23.1 (-5.0, 41.6)	20.6 (-6.4, 38.9)	17.9 (-7.8, 35.6)
	Net	-	-2.5 (-4.0, -1.3)	-5.0 (-8.0, -2.2)

Tokyo	Heat	0.6 (-0.2, 1.4)	1.0 (-0.3, 2.4)	2.1 (-0.3, 4.9)
	Cold	8.1 (-28.3, 30.5)	6.6 (-28.5, 28.2)	5.1 (-27.3, 25.5)
	Net	-	-1.1 (-2.5, 1.0)	-1.5 (-4.8, 3.6)
Tottori	Heat	0.3 (-0.2, 0.6)	0.6 (-0.2, 1.3)	1.4 (-0.2, 3.3)
	Cold	20.9 (-4.5, 37.9)	18.4 (-6.2, 35.1)	15.8 (-7.6, 32.1)
	Net	-	-2.2 (-3.5, -1.2)	-3.9 (-6.5, -1.5)
Toyama	Heat	0.3 (-0.1, 0.6)	0.6 (-0.1, 1.3)	1.4 (-0.0, 3.5)
	Cold	28.8 (7.4, 43.2)	26.2 (5.4, 40.3)	23.4 (3.4, 37.3)
	Net	-	-2.4 (-3.6, -1.5)	-4.3 (-6.6, -2.2)
Wakayama	Heat	0.1 (-0.2, 0.4)	0.3 (-0.4, 0.9)	0.8 (-0.7, 2.4)
	Cold	22.5 (-2.1, 39.0)	19.9 (-4.2, 36.1)	17.2 (-6.0, 33.0)
	Net	-	-2.4 (-3.8, -1.6)	-4.7 (-7.2, -2.5)
Yamagata	Heat	0.7 (0.1, 1.2)	1.1 (0.2, 2.0)	2.3 (0.8, 4.4)
	Cold	30.6 (8.3, 44.9)	28.5 (7.1, 42.4)	26.0 (5.7, 39.5)
	Net	-	-1.8 (-2.9, -0.8)	-2.9 (-5.1, -0.7)
Yamaguchi	Heat	0.2 (-0.2, 0.6)	0.5 (-0.3, 1.3)	1.4 (-0.4, 3.6)
	Cold	30.1 (11.1, 44.7)	27.6 (9.2, 41.9)	24.6 (6.9, 38.6)
	Net	-	-2.2 (-4.0, -1.1)	-4.4 (-7.3, -2.2)
Yamanashi	Heat	0.4 (-0.2, 0.8)	0.7 (-0.2, 1.5)	1.6 (0.0, 3.7)
	Cold	21.5 (-1.6, 37.2)	19.0 (-3.6, 34.5)	16.4 (-5.4, 31.6)
	Net	-	-2.1 (-3.3, -1.3)	-3.8 (-6.1, -1.8)

Table S5. Heat-related, cold-related, and net change in excess morbidity (%) with 95% eCI by prefecture and period under the RCP8.5 scenario.

		RCP8.5		
		2010–2019	2050–2059	2090–2099
Aichi	Heat	0.2 (-0.2, 0.6)	0.6 (-0.5, 1.8)	1.7 (-0.9, 4.2)
	Cold	19.1 (-2.3, 34.1)	15.8 (-4.7, 30.3)	12.6 (-6.0, 26.3)
	Net	-	-2.8 (-5.2, -0.9)	-5.0 (-9.2, -1.2)
Akita	Heat	0.4 (-0.0, 0.9)	1.2 (0.2, 2.2)	3.3 (0.9, 5.8)
	Cold	25.5 (1.4, 41.1)	22.3 (-0.1, 37.2)	19.0 (-1.2, 32.8)
	Net	-	-2.5 (-4.8, -0.4)	-3.5 (-7.5, 1.0)
Aomori	Heat	0.8 (0.2, 1.3)	1.9 (0.7, 3.2)	4.8 (1.9, 7.6)
	Cold	31.7 (8.7, 46.1)	28.2 (7.0, 42.0)	24.5 (6.2, 37.6)
	Net	-	-2.3 (-4.6, -0.3)	-3.1 (-7.0, 1.6)
Chiba	Heat	0.2 (-0.2, 0.6)	0.7 (-0.3, 1.7)	1.8 (-0.3, 3.9)
	Cold	16.2 (-3.6, 30.3)	13.5 (-4.9, 27.0)	10.9 (-5.3, 23.4)
	Net	-	-2.3 (-4.6, -0.3)	-3.8 (-7.8, 0.2)
Ehime	Heat	0.1 (-0.3, 0.4)	0.3 (-0.8, 1.3)	0.8 (-2.1, 3.3)
	Cold	22.3 (-2.3, 39.0)	19.1 (-4.0, 35.1)	15.6 (-5.5, 30.8)
	Net	-	-3.1 (-5.7, -1.0)	-6.0 (-10.5, -1.6)
Fukui	Heat	0.6 (-0.0, 1.3)	1.4 (0.1, 2.6)	3.1 (0.7, 5.6)
	Cold	27.6 (6.4, 42.0)	23.9 (3.3, 38.0)	20.0 (0.8, 33.6)
	Net	-	-2.9 (-4.9, -1.4)	-5.1 (-8.4, -2.1)
Fukuoka	Heat	-0.0 (-0.1, 0.1)	-0.0 (-0.5, 0.4)	0.0 (-2.0, 1.7)
	Cold	31.0 (8.7, 46.8)	27.0 (5.8, 42.2)	22.7 (3.2, 37.7)
	Net	-	-4.0 (-6.9, -1.8)	-8.3 (-13.1, -3.9)
Fukushima	Heat	0.5 (0.1, 1.0)	1.2 (0.4, 2.2)	2.9 (1.0, 4.9)
	Cold	29.9 (10.8, 42.8)	26.3 (8.2, 38.7)	22.5 (6.2, 34.4)
	Net	-	-2.9 (-5.2, -1.1)	-5.0 (-8.6, -1.6)
Gifu	Heat	0.0 (-0.2, 0.3)	0.1 (-0.8, 1.0)	0.5 (-2.2, 2.8)
	Cold	20.1 (-7.8, 38.7)	16.7 (-9.8, 34.6)	13.4 (-11.0, 30.5)
	Net	-	-3.3 (-6.0, -1.0)	-6.2 (-10.9, -1.7)
Gunma	Heat	0.4 (-0.0, 0.8)	0.9 (0.1, 1.9)	2.3 (0.4, 4.2)
	Cold	25.1 (5.2, 39.0)	21.4 (2.4, 34.9)	17.6 (0.2, 30.4)
	Net	-	-3.1 (-5.3, -1.1)	-5.5 (-9.2, -2.1)
Hiroshima	Heat	0.0 (-0.2, 0.2)	0.1 (-0.8, 0.8)	0.2 (-2.4, 2.4)
	Cold	22.0 (-4.8, 40.4)	18.8 (-7.1, 36.8)	15.6 (-8.4, 32.7)
	Net	-	-3.2 (-5.8, -1.1)	-6.2 (-10.8, -1.8)
Hokkaido	Heat	0.5 (0.0, 1.0)	1.8 (0.4, 3.5)	4.9 (1.5, 8.4)
	Cold	22.4 (-5.0, 39.7)	20.0 (-4.4, 35.9)	18.3 (-2.4, 32.5)
	Net	-	-1.1 (-3.3, 1.7)	0.3 (-4.4, 7.4)

Hyogo	Heat	0.0 (-0.1, 0.1)	0.1 (-0.4, 0.6)	0.3 (-1.5, 2.1)
	Cold	33.4 (14.4, 47.0)	29.5 (11.4, 42.7)	25.2 (8.3, 38.2)
	Net	-	-3.9 (-6.5, -2.0)	-8.0 (-12.2, -4.0)
Ibaraki	Heat	0.8 (0.2, 1.5)	1.9 (0.6, 3.3)	4.1 (1.5, 6.8)
	Cold	23.8 (0.2, 39.5)	20.5 (-1.7, 35.6)	17.1 (-2.4, 31.2)
	Net	-	-2.2 (-4.3, -0.2)	-3.4 (-7.2, 1.0)
Ishikawa	Heat	0.3 (-0.1, 0.7)	0.9 (-0.0, 1.9)	2.3 (0.3, 4.4)
	Cold	26.0 (3.6, 41.3)	22.3 (0.9, 37.0)	18.3 (-1.4, 32.5)
	Net	-	-3.2 (-5.6, -1.2)	-5.7 (-9.8, -2.0)
Iwate	Heat	1.0 (0.4, 1.8)	2.3 (1.0, 3.7)	5.4 (2.3, 8.2)
	Cold	26.7 (-0.7, 43.6)	23.9 (-1.3, 39.8)	21.1 (-1.3, 35.8)
	Net	-	-1.5 (-3.7, 0.6)	-1.3 (-5.0, 3.9)
Kagawa	Heat	0.1 (-0.3, 0.5)	0.3 (-0.8, 1.3)	0.8 (-1.8, 3.2)
	Cold	23.9 (-2.7, 41.4)	19.9 (-6.3, 37.1)	15.7 (-8.6, 32.3)
	Net	-	-3.8 (-6.6, -1.6)	-7.5 (-11.9, -3.2)
Kagoshima	Heat	-0.1 (-0.3, 0.1)	-0.5 (-2.2, 0.4)	-2.0 (-7.7, 1.4)
	Cold	30.1 (4.3, 47.7)	26.2 (2.0, 43.1)	22.1 (-0.1, 38.5)
	Net	-	-4.3 (-8.4, -1.6)	-9.8 (-18.3, -3.8)
Kanagawa	Heat	0.5 (-0.0, 1.0)	1.2 (0.1, 2.3)	2.8 (0.6, 5.2)
	Cold	10.3 (-9.5, 24.6)	7.9 (-10.2, 21.4)	5.9 (-9.8, 17.9)
	Net	-	-1.6 (-3.6, 0.2)	-2.1 (-5.9, 2.5)
Kochi	Heat	0.1 (-0.4, 0.6)	0.3 (-1.1, 1.6)	1.1 (-2.8, 4.2)
	Cold	25.7 (1.4, 41.8)	22.1 (-0.8, 37.7)	18.2 (-2.8, 33.1)
	Net	-	-3.3 (-6.1, -1.2)	-6.6 (-11.8, -2.1)
Kumamoto	Heat	0.0 (-0.2, 0.3)	0.1 (-0.8, 0.8)	0.3 (-2.3, 2.5)
	Cold	20.4 (-6.7, 37.9)	17.3 (-8.7, 34.3)	13.9 (-10.4, 30.5)
	Net	-	-3.1 (-5.5, -1.1)	-6.2 (-10.6, -2.1)
Kyoto	Heat	0.1 (-0.3, 0.5)	0.4 (-0.6, 1.5)	1.2 (-1.2, 3.6)
	Cold	26.2 (4.3, 41.2)	22.3 (0.9, 36.9)	18.3 (-1.5, 32.5)
	Net	-	-3.6 (-6.1, -1.5)	-6.8 (-11.1, -3.0)
Mie	Heat	0.1 (-0.2, 0.5)	0.5 (-0.5, 1.5)	1.4 (-0.8, 3.6)
	Cold	26.4 (5.3, 40.9)	22.4 (2.1, 36.8)	18.4 (-0.6, 32.3)
	Net	-	-3.6 (-6.1, -1.5)	-6.7 (-10.8, -2.9)
Miyagi	Heat	0.6 (0.1, 1.1)	1.4 (0.4, 2.4)	3.4 (1.1, 5.5)
	Cold	17.3 (-7.1, 33.6)	14.7 (-7.6, 29.9)	12.2 (-7.1, 26.0)
	Net	-	-1.9 (-4.3, 0.3)	-2.3 (-6.5, 2.9)
Miyazaki	Heat	0.0 (-0.3, 0.3)	0.2 (-0.8, 1.1)	0.6 (-2.4, 3.1)
	Cold	21.4 (-4.2, 39.0)	18.4 (-5.8, 35.2)	15.1 (-7.0, 30.8)
	Net	-	-2.9 (-5.4, -0.7)	-5.7 (-10.7, -0.9)
Nagano	Heat	0.8 (0.3, 1.4)	2.1 (0.9, 3.3)	4.9 (2.1, 7.5)
	Cold	33.9 (15.3, 46.4)	30.4 (12.7, 42.5)	26.5 (10.1, 38.3)
	Net	-	-2.2 (-3.9, -0.8)	-3.3 (-6.7, -0.3)

Nagasaki	Heat	0.0 (-0.3, 0.3)	0.2 (-1.0, 1.3)	0.7 (-2.6, 3.6)
	Cold	23.5 (-2.0, 40.5)	19.7 (-4.3, 36.1)	15.8 (-6.0, 31.4)
	Net	-	-3.6 (-6.6, -1.2)	-7.1 (-12.6, -2.1)
Nara	Heat	1.1 (0.1, 2.2)	2.5 (0.5, 4.4)	5.1 (1.3, 8.4)
	Cold	26.8 (2.1, 42.3)	23.4 (0.1, 38.4)	19.7 (-1.6, 34.1)
	Net	-	-2.0 (-3.9, -0.4)	-3.2 (-6.9, 0.6)
Niigata	Heat	0.4 (0.1, 0.9)	1.2 (0.3, 2.2)	3.2 (1.0, 5.4)
	Cold	30.5 (11.3, 43.7)	27.0 (8.8, 39.7)	23.2 (6.7, 35.2)
	Net	-	-2.7 (-4.9, -1.0)	-4.6 (-8.3, -1.0)
Oita	Heat	0.3 (-0.3, 0.9)	0.7 (-0.7, 2.0)	1.8 (-1.2, 4.6)
	Cold	19.6 (-5.0, 36.3)	16.2 (-7.1, 32.2)	12.7 (-8.2, 27.6)
	Net	-	-3.0 (-5.5, -0.9)	-5.4 (-10.0, -0.8)
Okayama	Heat	0.1 (-0.3, 0.6)	0.4 (-0.8, 1.5)	1.1 (-1.8, 3.7)
	Cold	23.0 (-1.8, 39.5)	19.3 (-4.5, 35.2)	15.4 (-6.3, 30.8)
	Net	-	-3.4 (-6.1, -1.3)	-6.6 (-11.1, -2.5)
Okinawa	Heat	2.2 (-5.9, 8.3)	4.6 (-11.6, 14.1)	8.4 (-38.7, 24.5)
	Cold	16.6 (-4.2, 30.6)	12.7 (-5.7, 25.5)	8.5 (-5.8, 20.5)
	Net	-	-1.4 (-13.5, 4.7)	-1.8 (-47.6, 12.5)
Osaka	Heat	0.2 (-0.3, 0.6)	0.5 (-0.6, 1.6)	1.3 (-1.3, 3.9)
	Cold	10.2 (-11.7, 25.9)	7.6 (-13.1, 22.6)	5.4 (-13.1, 19.2)
	Net	-	-2.2 (-4.5, -0.3)	-3.6 (-7.8, 0.6)
Saga	Heat	0.0 (-0.2, 0.1)	0.0 (-0.5, 0.5)	0.1 (-1.9, 1.7)
	Cold	24.9 (-4.3, 44.2)	21.5 (-6.4, 40.3)	17.8 (-8.0, 36.0)
	Net	-	-3.4 (-6.1, -1.3)	-7.0 (-11.5, -2.7)
Saitama	Heat	0.5 (-0.0, 1.0)	1.1 (0.1, 2.2)	2.5 (0.6, 4.4)
	Cold	16.8 (-1.4, 29.8)	13.1 (-4.2, 25.8)	9.5 (-6.3, 21.7)
	Net	-	-3.1 (-5.4, -1.0)	-5.3 (-8.8, -2.2)
Shiga	Heat	0.8 (-0.0, 1.5)	1.9 (0.3, 3.4)	4.1 (1.2, 7.1)
	Cold	20.4 (-2.1, 35.6)	16.6 (-4.9, 31.4)	12.8 (-7.1, 27.2)
	Net	-	-2.7 (-4.8, -0.7)	-4.2 (-8.0, -0.5)
Shimane	Heat	0.2 (-0.1, 0.5)	0.5 (-0.2, 1.3)	1.4 (-0.3, 3.4)
	Cold	30.3 (8.1, 44.8)	26.6 (5.7, 40.7)	22.6 (3.6, 36.1)
	Net	-	-3.4 (-5.9, -1.4)	-6.4 (-10.5, -2.4)
Shizuoka	Heat	0.3 (-0.3, 0.8)	0.8 (-0.5, 2.2)	2.1 (-0.9, 5.0)
	Cold	14.1 (-13.1, 32.2)	11.6 (-13.4, 28.5)	9.3 (-12.6, 24.7)
	Net	-	-2.0 (-4.5, 0.4)	-3.0 (-7.8, 2.7)
Tochigi	Heat	0.5 (0.0, 1.0)	1.3 (0.3, 2.5)	3.0 (1.0, 5.2)
	Cold	20.4 (0.6, 35.9)	17.2 (-1.4, 32.0)	14.0 (-2.9, 27.9)
	Net	-	-2.4 (-4.3, -0.7)	-3.9 (-7.5, -0.4)
Tokushima	Heat	0.0 (-0.2, 0.2)	0.1 (-0.6, 0.8)	0.5 (-2.0, 2.7)
	Cold	22.6 (-5.4, 41.2)	19.0 (-7.4, 37.0)	15.4 (-8.8, 32.4)
	Net	-	-3.4 (-6.5, -0.9)	-6.7 (-12.0, -1.7)

Tokyo	Heat	0.7 (-0.2, 1.6)	1.5 (-0.3, 3.4)	3.4 (-0.4, 6.8)
	Cold	7.7 (-28.5, 30.2)	5.7 (-28.1, 26.7)	4.0 (-24.8, 22.9)
	Net	-	-1.2 (-3.8, 2.0)	-1.1 (-6.4, 6.9)
Tottori	Heat	0.3 (-0.2, 0.8)	0.9 (-0.2, 2.0)	2.2 (-0.0, 4.5)
	Cold	20.4 (-5.0, 37.4)	17.0 (-7.2, 33.5)	13.6 (-8.4, 29.1)
	Net	-	-2.8 (-5.2, -0.7)	-4.9 (-9.2, -0.8)
Toyama	Heat	0.4 (-0.1, 0.9)	1.0 (-0.1, 2.2)	2.4 (0.2, 4.7)
	Cold	28.3 (6.9, 42.8)	24.6 (4.2, 38.5)	20.7 (1.9, 34.0)
	Net	-	-3.1 (-5.4, -1.3)	-5.6 (-9.5, -2.1)
Wakayama	Heat	0.1 (-0.3, 0.5)	0.5 (-0.6, 1.7)	1.5 (-1.1, 4.1)
	Cold	22.0 (-2.5, 38.5)	18.3 (-5.3, 34.3)	14.4 (-7.2, 29.6)
	Net	-	-3.3 (-5.9, -1.1)	-6.2 (-10.7, -2.0)
Yamagata	Heat	0.9 (0.2, 1.6)	1.8 (0.5, 3.2)	3.9 (1.6, 6.3)
	Cold	30.2 (8.1, 44.6)	27.1 (6.3, 40.8)	23.7 (4.7, 36.7)
	Net	-	-2.2 (-3.9, -0.7)	-3.4 (-6.8, 0.2)
Yamaguchi	Heat	0.3 (-0.2, 0.8)	0.9 (-0.4, 2.1)	2.3 (-0.6, 5.2)
	Cold	29.7 (10.7, 44.3)	25.9 (8.0, 39.9)	21.8 (5.4, 35.2)
	Net	-	-3.2 (-5.9, -1.2)	-5.9 (-10.4, -2.2)
Yamanashi	Heat	0.4 (-0.2, 1.0)	1.1 (-0.1, 2.4)	2.7 (0.3, 5.2)
	Cold	20.9 (-2.1, 36.7)	17.5 (-4.8, 32.8)	14.0 (-6.4, 28.5)
	Net	-	-2.7 (-5.0, -0.7)	-4.6 (-8.5, -0.9)

Table S6. Sensitivity analysis, by varying modelling choices. Results were the net difference in excess morbidity in 2090–2099 compared with 2010–2019.

	RCP2.6	RCP4.5	RCP6.0	RCP8.5
	Net excess morbidity (95% eCI)	Net excess morbidity (95% eCI)	Net excess morbidity (95% eCI)	Net excess morbidity (95% eCI)
Modelling choices				
6 df/year for seasonal control	-0.8 (-1.9, 0.3)	-2.7 (-4.1, -1.2)	-3.5 (-5.6, -2.0)	-4.7 (-7.1, -2.4)
10 df/year for seasonal control	-0.8 (-1.8, 0.1)	-2.6 (-4.1, -1.3)	-3.5 (-5.5, -2.0)	-4.6 (-7.8, -2.1)
Lag choices				
14 days	-0.7 (-1.8, 0.3)	-2.4 (-4.1, -1.0)	-3.2 (-5.4, -1.5)	-3.9 (-7.4, -1.2)
28 days	-0.9 (-1.7, 0.0)	-2.7 (-4.0, -1.4)	-3.6 (-5.0, -2.3)	-4.4 (-8.1, -1.9)
Control for confounding factors				
With relative humidity	-0.8 (-1.9, 0.1)	-2.6 (-4.2, -0.9)	-3.4 (-5.5, -1.4)	-4.3 (-7.6, -0.7)
With public holiday	-0.8 (-1.8, 0.2)	-2.6 (-4.2, -1.0)	-3.4 (-5.5, -1.4)	-4.2 (-7.6, -0.8)
Without day of the week	-0.8 (-1.9, 0.1)	-2.6 (-4.4, -0.8)	-3.4 (-5.7, -1.0)	-4.2 (-8.1, -0.3)