

Heat exposure and pediatric immune thrombocytopenia in Japan from 2011 to 2022: a nationwide space-time-stratified case-crossover study

Authors

Nobutoshi Nawa,¹ Hisaaki Nishimura,¹ Kiyohide Fushimi² and Takeo Fujiwara¹

¹Department of Public Health, Institute of Science Tokyo and
²Department of Health Policy and Informatics, Institute of Science
Tokyo, Tokyo, Japan

Correspondence:
N. NAWA - nawa.ioe@tmd.ac.jp

<https://doi.org/10.3324/haematol.2024.287176>

Heat exposure and pediatric immune thrombocytopenia in Japan from 2011 to 2022: a nationwide space-time-stratified case-crossover study

Nobutoshi Nawa¹, Hisaaki Nishimura¹, Kiyohide Fushimi², Takeo Fujiwara¹

¹ Department of Public Health, Institute of Science Tokyo, Tokyo, Japan

² Department of Health Policy and Informatics, Institute of Science Tokyo, Tokyo, Japan

Corresponding to:

Nobutoshi Nawa, MD, PhD, MPH

Department of Public Health, Institute of Science Tokyo,

1-5-45 Yushima, Bunkyo-ku, Tokyo 113-8510, Japan.

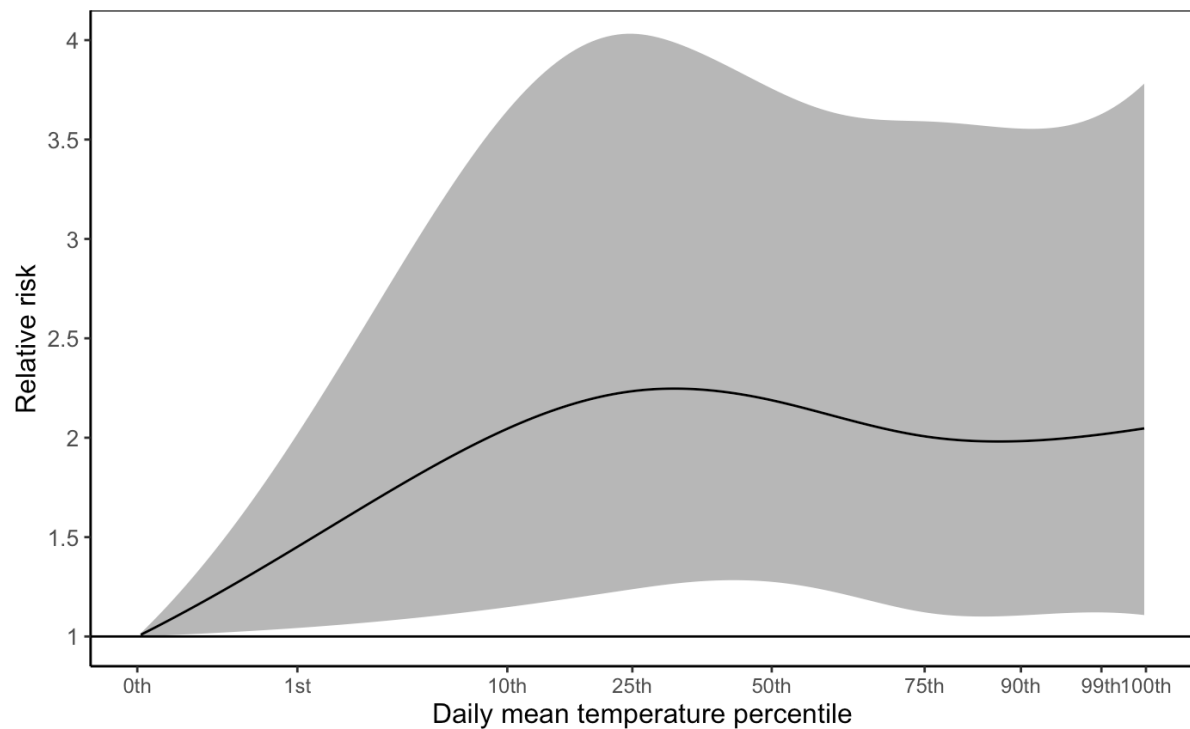
Email: nawa.ioe@tmd.ac.jp; Tel.: 03-5803-5188; Fax.: 03-5803-5190.

Supplementary Table 1. Descriptive statistics on daily mean temperature and hospitalizations for pediatric immune thrombocytopenia by region from May through September, 2011–2022.

Region	Hospitalizations		Daily mean temperature (°C)								
	Cases (n)	Male (%)	Min	1st	10th	25th	50th	75th	90th	99th	100th
Northern	433	54.7	7.5	10.7	15.3	18.2	21.1	24.0	26.4	28.4	29.3
Eastern	1,854	52.6	11.6	14.5	18.7	21.0	23.6	26.9	28.8	30.3	31.4
Western	1,621	54.5	13.1	16.4	20.1	22.3	25.0	27.9	29.3	30.6	31.2
Total	3,908	53.7	10.7	13.9	18.0	20.5	23.2	26.3	28.2	29.8	30.6

Supplementary Figure 1 Association between daily mean temperatures and hospitalizations for pediatric immune thrombocytopenia using regionally aggregated data

- (a) Relative risks of hospitalization for pediatric immune thrombocytopenia associated with daily mean temperature over a lag of 0–4 days



- (b) Relative risks of hospitalization for pediatric immune thrombocytopenia associated with extreme high daily mean temperatures (99th percentile) along a lag of 0–4 days

