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## HEALTH IMPACT ASSESSMENT BY INCOME LEVEL DUE TO HEATWAVE

Haeyong Pak<sup>a</sup> and Yunsuk Pak<sup>b,c</sup> <sup>a</sup>National Health Insurance Service Ilsan Hospital, South Korea <sup>b</sup>National Medical Center, South Korea <sup>c</sup>National Emergency Medical Center, South Korea

Health impact of high temperature has been reported since the early 20th century. In South Korea, it is reported that mortality increases with temperature above city-species thresholds during the hot season in Seoul. However, the health impact of high temperature according to vulnerability on morbidity has been inconclusive in South Korea. this analysis was to examine health impact of high temperature, according to vulnerability on morbidity in summer (May-September) Seoul, South Korea, from 2003 to 2013. To examine the distributed lag e ects, we tted a constrained distributed

beptember) bedai, bottli Rolea, from 2000 to 2010. To examine the distributed lag c cets, we tied a constrained distributed
lag model that included lagged exposure variables as covariates, applying a function of days of lag according to B-spline bases.
In our study, morbidity data are episode data based on patients, with applying the episode of care in National Health Insurance
Service - National Sample Cohort (2002~2013). We examined heat stroke in two age categories: all ages and those over age 65,
low level of income, high region of deprivation. e summer temperature thresholds were 26.1°C in Seoul. A 1°C increase in
temperatures above morbidity-speci c thresholds was associated with increase in heat stroke episode counts for all ages, and
for those over age 65 of 35.86% and 50.05%, 44.56% and 52.42% for low level of income, 42.28% and 62.62% for high region of
deprivation. Associations were stronger for low level of income and high region of deprivation in heat stroke, to a lesser extent,
total group. Our study found that high temperature was associated increased risk of heat stroke, according to vulnerability in
Seoul. Consequentially, evidence of this study has the potential to inform public health e orts, such as heat warning systems
for di erential high temperature according to vulnerability.
Biography

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