

Supplemental material 4. Odds ratios for deleterious health effects and air conditioning infrastructure in participants who do not have chronic disease using a multiple logistic regression model

|   | No air conditioning used<br>in the main space where the respondent<br>spent time outside the home |      |               | No air conditioner in the house |      |                | Restricted air conditioner use<br>due to electricity bills |      |                |
|---|---|------|---------------|---------------------------------|------|----------------|--|------|----------------|
|   | OR  | SE   | 95% CI        | OR                              | SE   | 95% CI         | OR   | SE   | 95% CI         |
| Physical or mental symptoms                   | 1.73  | 0.34 | (0.89 - 3.38) | 0.95                            | 0.26 | (0.58 - 1.58)  | 1.76   | 0.19 | (1.21 - 2.57)  |
| Heat-related disorder                         | 1.41  | 0.39 | (0.65 - 3.04) | 1.30                            | 0.31 | (0.71 - 2.39)  | 1.32   | 0.26 | (0.79 - 2.18)  |
| Skin disorder                                 | 1.31  | 0.36 | (0.66 - 2.64) | 1.07                            | 0.27 | (0.63 - 1.83)  | 2.02   | 0.22 | (1.32 - 3.11)  |
| Gastrointestinal disorder                     | 1.45  | 0.35 | (0.74 - 2.86) | 1.21                            | 0.27 | (0.72 - 2.03)  | 1.57   | 0.21 | (1.04 - 2.35)  |
| Cardiovascular disorder                       | -   | -    | -             | -                               | -    | -              | -  | -    | -              |
| Renal and urinary disorder                    | 0.89  | 1.19 | (0.09 - 9.12) | 0.76                            | 1.10 | (0.09 - 6.60)  | 3.38   | 0.84 | (0.66 - 17.41) |
| Neurological disorder                         | 2.17  | 0.35 | (1.09 - 4.30) | 1.54                            | 0.28 | (0.89 - 2.66)  | 1.43   | 0.23 | (0.90 - 2.25)  |
| Allergic disorder                             | 1.37  | 0.52 | (0.50 - 3.76) | 0.83                            | 0.41 | (0.37 - 1.85)  | 1.00   | 0.29 | (0.57 - 1.78)  |
| Respiratory disorder                          | 0.99  | 0.49 | (0.38 - 2.60) | 0.79                            | 0.36 | (0.39 - 1.59)  | 1.01   | 0.26 | (0.61 - 1.68)  |
| Mental disorder                               | 0.92  | 0.47 | (0.37 - 2.30) | 1.36                            | 0.33 | (0.71 - 2.61)  | 1.33   | 0.29 | (0.75 - 2.35)  |
| Sleep disorder                                | 1.22  | 0.34 | (0.62 - 2.38) | 1.25                            | 0.26 | (0.75 - 2.09)  | 1.57   | 0.21 | (1.05 - 2.35)  |
| Symptoms of air-conditioningitis              | 0.38  | 0.51 | (0.14 - 1.02) | 0.92                            | 0.28 | (0.53 - 1.60)  | 0.97   | 0.20 | (0.65 - 1.44)  |
| Received treatment for air-conditioningitis   | 0.65  | 0.64 | (0.18 - 2.28) | 1.10                            | 0.37 | (0.54 - 2.27)  | 1.28   | 0.27 | (0.75 - 2.17)  |
| Symptoms of food poisoning                    | 0.78  | 0.52 | (0.28 - 2.15) | 0.99                            | 0.38 | (0.47 - 2.08)  | 1.50   | 0.28 | (0.86 - 2.60)  |
| Absence due to the heat wave                  | 0.83  | 0.83 | (0.16 - 4.23) | 4.05                            | 0.51 | (1.48 - 11.08) | 0.90   | 0.51 | (0.33 - 2.46)  |
| Lateness due to the heat wave                 | 1.05  | 0.54 | (0.37 - 3.02) | 1.39                            | 0.38 | (0.66 - 2.91)  | 2.19   | 0.32 | (1.18 - 4.09)  |
| Appointment cancellation due to the heat wave | 1.05  | 0.35 | (0.54 - 2.08) | 0.70                            | 0.26 | (0.42 - 1.17)  | 1.90   | 0.19 | (1.30 - 2.78)  |

OR, odds ratio calculated by the multiple logistic regression model; SE, standard error.

Reference group: air conditioning used in the main space where the respondent spent time outside the home, had an air conditioner at home, and did not restrict air conditioner use due to electricity bills.

Covariates: sex, age, residential area, job, type of housing, number of household members, relative poverty (defined as a monthly household income less than 50% of the standard median income), and obesity (body mass index  $\geq 25$  kg/m<sup>2</sup>).

-: value cannot be fitted.