**Supplementary Table 1: The 1-year prevalence of atopic dermatitis in eight regions of China and comparison of atopic dermatitis prevalence among regions adjusted by age and sex**

|  |  |  |
| --- | --- | --- |
| Region | 1-year prevalence (95% CI) (%) | Adjusted OR (95% CI)\* |
| Northeast | 6.29 (5.58-7.01) | 1 |
| Northern Coastal | 5.64 (5.01-6.27) | 1.126 (0.951-1.334) |
| Eastern Coastal | 6.72 (5.91-7.53) | 0.930 (0.779-1.111) |
| Southern Coastal | 5.83 (5.08-6.58) | 1.046 (0.871-1.257) |
| Middle Yellow River | 5.62 (5.06-6.17) | 1.110 (0.945-1.303) |
| Middle Yangtze River | 6.49 (5.83-7.14) | 0.924 (0.785-1.088) |
| Northwest | 5.49 (4.58-6.40) | 1.166 (0.943-1.444) |
| Southwest | 5.93 (5.29-6.57) | 1.032 (0.873-1.221) |

\*Age- and sex-adjusted results of logistic regression. CI: confidence interval; OR: odds ratio.

**Supplementary Table 2: Logistic regression analysis of risk factors for adult atopic dermatitis**

|  |  |  |
| --- | --- | --- |
| **Variables** | **Crude OR (95% CI)** | **Adjusted OR (95% CI)** |
| Sex |  |  |
| Male | 1 | 1 |
| Female | 1.171 (1.072-1.278) | 1.159 (1.042-1.289) |
| Age (years) |  |  |
| 40-49 | 1 | 1 |
| 18-29 | 0.790 (0.689-0.905) | 0.774 (0.672-0.891) |
| 30-39 | 0.949 (0.811-1.110) | 0.907 (0.773-1.065) |
| 50-59 | 0.885 (0.736-1.064) | 0.980 (0.812-1.182) |
| ≥60 | 1.002 (0.844-1.190) | 1.213 (1.016-1.447) |
| Residence |  | |
| Rural | 1 | 1 |
| Urban | 2.540 (2.023-3.189) | 2.282 (1.812-2.873) |
| Smoking |  | |
| Nonsmoker | 1 | 1 |
| Ex-smoker | 1.365 (1.137-1.639) | 1.454 (1.193-1.772) |
| Current smoker | 1.035 (0.915-1.170) | 1.204 (1.042-1.393) |
| Food allergy | 2.328 (2.015-2.691) | 1.654 (1.417-1.931) |
| Drug allergy | 1.914 (1.653-2.217) | 1.238 (1.058-1.448) |
| Overreaction to insect bites | 2.375 (2.129-2.650) | 1.819 (1.618-2.044) |
| Allergic rhinitis | 2.512 (2.252-2.802) | 1.699 (1.508-1.914) |
| Asthma | 2.546 (1.928-3.363) | 1.371 (1.022-1.838) |
| Allergic conjunctivitis | 2.577 (1.900-3.496) | 1.174 (0.848-1.626) |
| Atopy in first-degree relatives | 3.174 (2.885-3.493) | 2.349 (2.116-2.606) |
| Atopy in second-degree relatives | 2.668 (2.232-3.189) | 1.506 (1.237-1.834) |
| Atopy in third-degree relatives | 2.498 (1.892-3.299) | 1.160 (0.854-1.575) |

OR: odds ratio; CI: confidence interval.