**Supplemental Table S15 Associations between extreme meteorological factors with hypothyroidism in different trimesters among participants.**

|  |  |  |  |
| --- | --- | --- | --- |
| Gestational period | Meteorological factors | Extreme low meteorological factor | Extreme high meteorological factor |
| 5th | 3rd | 1st | 95th | 97th | 99th |
| The first trimester | Tmean (℃) | 1.047 (0.985, 1.113) | 0.904 (0.838, 0.975) | 1.098 (1.005, 1.199) | 0.800 (0.748, 0.856) | 1.026 (0.956, 1.102) | 1.117 (1.024, 1.218) |
|  | RH (%) | 1.311 (1.231, 1.396) | 1.411 (1.327, 1.501) | 1.152 (1.064, 1.246) | 1.100 (1.027, 1.178) | 1.080 (1.007, 1.159) | 1.273 (1.171, 1.384) |
|  | Surface pressure (hPa) | 0.975 (0.915, 1.040) | 0.958 (0.890, 1.031) | 0.970 (0.894, 1.053) | 0.972 (0.912, 1.036) | 1.074 (0.998, 1.155) | 1.259 (1.152, 1.376) |
|  | Wind speed (m/s) | 0.937 (0.880, 0.998) | 0.925 (0.866, 0.988) | 0.830 (0.762, 0.905) | 1.134 (1.027, 1.252) | 1.354 (1.199, 1.529) | 1.538 (1.332, 1.776) |
|  | Precipitation (mm) | 1.144 (1.075, 1.218) | 1.075 (1.002, 1.153) | 1.068 (0.982, 1.162) | 1.054 (0.989, 1.123) | 1.077 (1.008, 1.152) | 1.077 (0.993, 1.168) |
|  | Sunshine duration (hour) | 0.796 (0.744, 0.852) | 0.937 (0.879, 0.998) | 0.973 (0.896, 1.057) | 0.905 (0.844, 0.969) | 0.877 (0.818, 0.941) | 1.025 (0.936, 1.124) |
|  | Tmax (℃) | 1.052 (0.991, 1.116) | 1.050 (0.976, 1.129) | 1.036 (0.954, 1.125) | 0.870 (0.811, 0.933) | 1.116 (1.039, 1.199) | 1.003 (0.913, 1.101) |
|  | Tmin (℃) | 1.090 (1.026, 1.159) | 1.040 (0.966, 1.121) | 1.272 (1.164, 1.390) | 0.892 (0.834, 0.954) | 1.297 (1.208, 1.392) | 1.008 (0.925, 1.099) |
|  | DTR (℃) | 0.811 (0.764, 0.861) | 0.891 (0.838, 0.947) | 0.974 (0.902, 1.053) | 0.854 (0.796, 0.917) | 0.827 (0.762, 0.896) | 1.033 (0.942, 1.133) |

OR, odds ratio; 95% *CI*, 95% confidence interval; Tmean, daily mean temperature; RH, relative humidity; Tmax, daily maximum temperature; Tmin, daily minimum temperature; DTR, diurnal temperature range; MFS, meteorological factor score. Meteorological factor extremes were defined by different percentiles (5th, 3rd, 1st and 95th, 97th, 99th) of meteorological factors. All models were adjusted for maternal age, gravidity, parity, season of conception and year of conception.