**Table 3b: Gender stratified respiratory disease prevalence and 95% confidence intervals (CI)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Asthma** |  |  |  |
|  | **Overall Asthma** |  | **Allergic Asthma** |  | **Non-Allergic Asthma** |  | **COPD** |
| **Cohort** | **Female (95% CI)** | **Male (95% CI)** |  | **Female (95% CI)** | **Male (95% CI)** |  | **Female (95% CI)** | **Male (95% CI)** |  | **Female (95% CI)** | **Male (95% CI)** |
| Africa |  |  |  |  |  |  |  |  |  |  |  |
| Ethiopia | *NR* | 0.7 (0.0, 1.4) |  | *NR* | *NR* |  | *NR* | *NR* |  | 3.6 (0.0, 8.6) | 1.0 (0.0, 2.9) |
| KwaZulu-Natal Crop Farmers | *NR* | *NA* |  | *NR* | *NA* |  | *NR* | *NA* |  | *NR* | *NA* |
| Western Cape Fruit Farm Workers | 6.0 (3.0, 9.0) | *NA* |  | 5.0 (2.0, 8.0) | *NA* |  | 1.0 (0.0, 2.0) | *NA* |  | *NR* | *NA* |
| North West Poultry Workers | 12.0 (6.0, 22.0) | 12.0 (7.0, 18.0) |  | 4.0 (0.8, 11.0) | 5.0 (2.0, 10.0) |  | 8.0 (3.0, 17.0) | 7.0 (4.0, 12.0) |  | 4.0 (0.8, 11.0)a | 12.0 (7.0, 18.0)a,b |
| Asia |  |  |  |  |  |  |  |  |  |  |  |
| KMCC | 6.6 (5.7, 7.4) | 5.6 (4.7, 6.5) |  | *NR* | *NA* |  | *NR* | *NR* |  | 2.1 (1.6, 2.6)b | 3.7 (3.0, 4.4)b |
| Europe |  |  |  |  |  |  |  |  |  |  |  |
| AGRICAN | 7.8 (7.5, 8.0) | 8.1 (7.9, 8.1) |  | 3.1 (3.0, 3.3) | 3.0 (2.8, 3.0) |  | 4.7 (4.5, 4.8) | 5.1 (4.9, 5.1) |  | 10.3 (10.0, 10.6)c | 13.1 (12.8, 13.4)c |
| BM3R | 6.7 (5.6, 7.8) | 6.5 (5.6, 7.4) |  | *NR* | *NR* |  | *NR* | *NR* |  | 1.9 (1.3, 2.5)a | 6.2 (5.3, 7.1)a |
| FERMA | 15.9 (9.6, 22.2) | 11.6 (8.2, 15.1) |  | 6.8 (2.5, 11.2) | 4.8 (2.5, 7.1) |  | 9.1 (4.1, 14.1) | 6.7 (4.1, 9.6) |  | 4.5 (0.9, 8.1)d | 4.8 (2.5, 7.2)d |
| Franche-Comte Farmers | 7.8 (3.7, 11.9) | 6.1 (2.9, 9.3) |  | *NR* | *NR* |  | *NR* | *NR* |  | 5.4 (2.0, 8.8)a | 12.9 (10.0, 15.8)a |
| Norwegian Farmers | 3.3 (2.6, 4.2) | 3.7 (3.1, 4.5) |  | *NR* | *NR* |  | *NR* | *NR* |  | 10.4 (9.1, 11.9)a | 17.4 (16.0, 18.8)a |
| PIPAH | 10.5 (5.3, 19.7) | 10.2 (9.4, 11.2) |  | *NR* | *NR* |  | *NR* | *NR* |  | 1.3 (0.2, 8.9)d | 0.9 (0.6, 1.2)d |
| SUS Study | 6.5 (3.7, 10.5) | 4.7 (3.7, 5.8) |  | 3.0 (1.2, 6.2) | 2.9 (2.1, 3.8) |  | 3.5 (1.5, 6.7) | 1.8 (1.2, 2.5) |  | 13.5 (9.3, 18.6)b | 7.5 (6.3, 8.8)b |
| North America |  |  |  |  |  |  |  |  |  |  |  |
| AHS | 7.8 (7.6, 8.0) | 6.4 (6.2, 6.6) |  | 6.1 (6.0, 6.2) | 4.3 (4.2, 4.4) |  | 1.7 (1.6, 1.8) | 2.1 (2.0, 2.2) |  | 2.3 (2.2, 2.4)e | 3.8 (3.6, 3.9)e |
| Farmer Health Study | 9.2 (5.6, 14.1) | 7.6 (6.4, 8.9) |  | *NR* | *NR* |  | *NR* | *NR* |  | *NR* | *NR* |
| KCRHS | 9.9 (7.7, 12.1) | 3.8 (2.2, 5.4) |  | 5.9 (4.1, 7.6) | 2.6 (1.2, 3.9) |  | 2.7 (1.5, 3.9) | 1.1 (0.2, 2.0) |  | 4.8 (3.2, 6.4)b | 2.2 (1.0, 3.4)b |
| Oceania |  |  |  |  |  |  |  |  |  |  |  |
| New Zealand | 16.0 (14.4, 17.6) | 14.2 (12.7, 15.6) |  | *NR* | *NR* |  | *NR* | *NR* |  | *NR* | *NR* |
| Victorian Grain Farmers | *NA* | 16.0 (14.0, 18.0) |  | *NA* | *NR* |  | *NA* | *NR* |  | *NA* | 10.0 (9.0, 12.0)f |
| South America |  |  |  |  |  |  |  |  |  |  |  |
| MAUCO | 3.6 (3.1, 3.9) | 1.9 (1.6, 2.2) |  | *NR* | *NR* |  | *NR* | *NR* |  | 0.7 (0.5, 0.9)d | 0.3 (0.2, 0.5)d |
| Overall Median (IQR) | 7.8 (6.5, 10.5) | 6.5 (4.0, 11.3) |  | 5.0 (3.1, 6.1) | 3.6 (2.8, 4.9) |  | 3.5 (1.7, 8.0) | 3.6 (1.6, 6.8) |  | 4.0 (2.0, 7.9) | 5.5 (1.9, 12.2) |

COPD, chronic obstructive pulmonary disease; NR, not reported; NA, not applicable; IQR, inter-quartile range

COPD definitions: ***a*** Spirometry test threshold, ***b*** Doctor-diagnosed chronic bronchitis only, ***c*** Doctor-diagnosed chronic bronchitis or emphysema

***d*** Doctor-diagnosed COPD only, ***e*** Doctor-diagnosed COPD, emphysema, or chronic bronchitis, ***f*** Self-reported history of COPD.

COPD definitions provided in Supplement 1

KMCC, Korean Multi-center Cancer Cohort; AHS, Agricultural Health Study; GDMSP, Grain Dust Medical Surveillance Program; KCRHS, Keokuk County Rural Health Study