Table 1 Characteristics of pneumococcal deaths

|  | **Pneumococcal Disease** | **Pneumococcal Pneumonia** | **Non-respiratory IPD** |
| --- | --- | --- | --- |
| **Characteristic** | **N = 8,590***1* | **N = 6,068***1* | **N = 2,522***1* |
| **Age Category** |  |  |  |
| 25-49 years | 907 (11%) | 604 (10.0%) | 303 (12%) |
| 50-64 years | 2,252 (26%) | 1,651 (27%) | 601 (24%) |
| 65-74 years | 1,813 (21%) | 1,259 (21%) | 554 (22%) |
| 75-84 years | 1,875 (22%) | 1,323 (22%) | 552 (22%) |
| 85 years and older | 1,743 (20%) | 1,231 (20%) | 512 (20%) |
| **Sex** |  |  |  |
| Female | 4,034 (47%) | 2,854 (47%) | 1,180 (47%) |
| Male | 4,556 (53%) | 3,214 (53%) | 1,342 (53%) |
| **Race/Ethnicity** |  |  |  |
| White | 6,370 (74%) | 4,574 (75%) | 1,796 (71%) |
| Black | 1,117 (13%) | 712 (12%) | 405 (16%) |
| Hispanic | 706 (8.2%) | 488 (8.0%) | 218 (8.6%) |
| American Indian | 185 (2.2%) | 147 (2.4%) | 38 (1.5%) |
| Asian/Pacific Islanders | 188 (2.2%) | 128 (2.1%) | 60 (2.4%) |
| Other | 24 (0.3%) | 19 (0.3%) | 5 (0.2%) |
| **Education** |  |  |  |
| High school and lower | 5,645 (66%) | 4,109 (68%) | 1,536 (61%) |
| College and higher | 2,738 (32%) | 1,797 (30%) | 941 (37%) |
| Unknown | 207 (2.4%) | 162 (2.7%) | 45 (1.8%) |
| *1*n (%) | | | |

Figure 1 Time series for deaths and RR of pneumococcal disease

A group of graphs showing different types of waves

Description automatically generated with medium confidence

Figure 2 Heatmap for subgroup analyses (pneumococcal disease)

A screenshot of a graph

Description automatically generated

Figure 3 Lollipop plot for lasso regression

A graph with red and blue lines

Description automatically generated

Figure S1 Time series for deaths and RR of pneumococcal pneumonia

A group of graphs showing different types of waves

Description automatically generated with medium confidence

Figure S2 Time series for deaths and RR of non-respiratory IPD

A group of graphs showing different types of waves

Description automatically generated with medium confidence

Figure S3 Heatmap for subgroup analyses (pneumococcal disease, adjusted for influenza trend)

A screenshot of a graph

Description automatically generated

Figure S4 Heatmap for subgroup analyses (pneumococcal disease, adjusted for RSV trend)

A screenshot of a graph

Description automatically generated