**Supplementary Table 1:** Overview of the stepwise model development process; survivors of the 33-month study period.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Cause** | **Model** | **Model for zero-counts** | **Model for positive counts** | **AIC** | **dAIC** | **DF** |
| Stroke | 1 | After + Sex + Age + (1|ID) | Temporal Distance \* After + Sex + Age + (1|ID) | 783,611 | 753 | 17 |
| Stroke | 2 | After + Sex + Age + (1|ID) | Temporal Distance \* After + Sex \* After + Age + (1|ID) | 783,310 | 395 | 18 |
| Stroke | 3 | After + Sex + Age + (1|ID) | lin.spline(Temporal Distance) \* After + Sex + Age + (1|ID) | 783,224 | 359 | 19 |
| Stroke | 4 | After + Sex + Age + (1|ID) | lin.spline(Temporal Distance) \* After + Sex \* After + Age + (1|ID) | 782,922 | 0 | 20 |
| Stroke | 5 | After \* Sex + Age + (1|ID) | lin.spline(Temporal Distance) \* After + Sex \* After + Age + (1|ID) | 782,923 | 1 | 21 |
| MI | 1 | After + Sex + Age + (1|ID) | Temporal Distance \* After + Sex + Age + (1|ID) | 585,568 | 452 | 17 |
| MI | 2 | After + Sex + Age + (1|ID) | Temporal Distance \* After + Sex \* After + Age + (1|ID) | 585,347 | 231 | 18 |
| MI | 3 | After + Sex + Age + (1|ID) | lin.spline(Temporal Distance) \* After + Sex + Age + (1|ID) | 585,342 | 225 | 19 |
| MI | 4 | After + Sex + Age + (1|ID) | lin.spline(Temporal Distance) \* After + Sex \* After + Age + (1|ID) | 585,120 | 4 | 20 |
| MI | 5 | After \* Sex + Age + (1|ID) | lin.spline(Temporal Distance) \* After + Sex \* After + Age + (1|ID) | 585,116 | 0 | 21 |
| COPD | 1 | After + Sex + Age + (1|ID) | Temporal Distance \* After + Sex + Age + (1|ID) | 320,473 | 131 | 17 |
| COPD | 2 | After + Sex + Age + (1|ID) | Temporal Distance \* After + Sex \* After + Age + (1|ID) | 320,395 | 53 | 18 |
| COPD | 3 | After + Sex + Age + (1|ID) | lin.spline(Temporal Distance) \* After + Sex + Age + (1|ID) | 320,426 | 84 | 19 |
| COPD | 4 | After + Sex + Age + (1|ID) | lin.spline(Temporal Distance) \* After + Sex \* After + Age + (1|ID) | 320,349 | 6 | 20 |
| COPD | 5 | After \* Sex + Age + (1|ID) | lin.spline(Temporal Distance) \* After + Sex \* After + Age + (1|ID) | 320,342 | 0 | 21 |
| GIC | 1 | After + Sex + Age + (1|ID) | Temporal Distance \* After + Sex + Age + (1|ID) | 287,754 | 171 | 17 |
| GIC | 2 | After + Sex + Age + (1|ID) | Temporal Distance \* After + Sex \* After + Age + (1|ID) | 287,685 | 101 | 18 |
| GIC | 3 | After + Sex + Age + (1|ID) | lin.spline(Temporal Distance) \* After + Sex + Age + (1|ID) | 287,656 | 72 | 19 |
| GIC | 4 | After + Sex + Age + (1|ID) | lin.spline(Temporal Distance) \* After + Sex \* After + Age + (1|ID) | 287,586 | 2 | 20 |
| GIC | 5 | After \* Sex + Age + (1|ID) | lin.spline(Temporal Distance) \* After + Sex \* After + Age + (1|ID) | 287,584 | 0 | 21 |

*Note: (1|D) stands for individual random effect*