**Supplementary Table 3:** Results of hurdle regression models; survivors of the 33-month study period.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Log. Model** | **Stroke** | | **MI** | | **COPD** | | **GIC** | |
| **for Zero Counts** | **Est. (95%CI)** | **p-Value** | **Est. (95%CI)** | **p-Value** | **Est. (95%CI)** | **p-Value** | **Est. (95%CI)** | **p-Value** |
|  |  |  |  |  |  |  |  |  |
| Intercept | 0.176 (0.080-0.271) | < 0.001 | 0.176 (0.076-0.276) | < 0.001 | 0.032 (0.000-0.211) | < 0.001 | 0.191 (0.060-0.321) | < 0.001 |
|  |  |  |  |  |  |  |  |  |
| After | 0.066 (0.000-0.136) | < 0.001 | 0.076 (0.000-0.169) | < 0.001 | 0.192 (0.081-0.303) | < 0.001 | 0.304 (0.222-0.386) | < 0.001 |
|  |  |  |  |  |  |  |  |  |
| Men | 1.870 (1.790-1.951) | < 0.001 | 2.013 (1.923-2.103) | < 0.001 | 2.307 (2.150-2.464) | < 0.001 | 1.863 (1.742-1.984) | < 0.001 |
| Men\*After | 0.942 (0.851-1.033) | 0.199 | 0.868 (0.758-0.978) | 0.011 | 0.793 (0.635-0.951) | 0.004 | 0.894 (0.786-1.001) | 0.041 |
|  |  |  |  |  |  |  |  |  |
| Age 70-79 | 0.566 (0.470-0.661) | < 0.001 | 0.489 (0.396-0.583) | < 0.001 | 0.609 (0.439-0.779) | < 0.001 | 0.426 (0.294-0.558) | < 0.001 |
| Age 80-89 | 0.390 (0.278-0.502) | < 0.001 | 0.317 (0.192-0.441) | < 0.001 | 0.446 (0.212-0.680) | < 0.001 | 0.272 (0.095-0.449) | < 0.001 |
| Age 90+ | 0.362 (0.076-0.649) | < 0.001 | 0.331 (0.002-0.659) | < 0.001 | 0.921 (0.096-1.746) | 0.845 | 0.153 (0.000-0.837) | < 0.001 |
|  |  |  |  |  |  |  |  |  |
| **NB Model** | **Stroke** | | **MI** | | **COPD** | | **GIC** | |
| **for Positive Counts** | **Est. (95%CI)** | **p-Value** | **Est. (95%CI)** | **p-Value** | **Est. (95%CI)** | **p-Value** | **Est. (95%CI)** | **p-Value** |
|  |  |  |  |  |  |  |  |  |
| Intercept | 3.601 (3.579-3.623) | < 0.001 | 3.508 (3.483-3.532) | < 0.001 | 4.875 (4.846-4.904) | < 0.001 | 3.313 (3.276-3.350) | < 0.001 |
|  |  |  |  |  |  |  |  |  |
| lin.spl.(Temp.Dist.)1 | 0.953 (0.940-0.967) | < 0.001 | 0.957 (0.942-0.972) | < 0.001 | 0.925 (0.908-0.942) | < 0.001 | 0.886 (0.864-0.908) | < 0.001 |
| lin.spl.(Temp.Dist.)2 | 0.887 (0.874-0.901) | < 0.001 | 0.889 (0.874-0.905) | < 0.001 | 0.820 (0.802-0.838) | < 0.001 | 0.804 (0.782-0.827) | < 0.001 |
| After | 1.731 (1.717-1.745) | < 0.001 | 1.677 (1.661-1.693) | < 0.001 | 1.285 (1.267-1.304) | < 0.001 | 1.221 (1.198-1.245) | < 0.001 |
| lin.spl.(Temp.Dist.)1\*After | 0.924 (0.907-0.941) | < 0.001 | 0.923 (0.905-0.942) | < 0.001 | 1.041 (1.018-1.064) | < 0.001 | 1.042 (1.013-1.071) | 0.005 |
| lin.spl.(Temp.Dist.)2\*After | 0.977 (0.960-0.994) | 0.007 | 0.937 (0.918-0.956) | < 0.001 | 1.246 (1.222-1.269) | < 0.001 | 1.194 (1.164-1.223) | < 0.001 |
|  |  |  |  |  |  |  |  |  |
| Men | 0.801 (0.783-0.819) | < 0.001 | 0.781 (0.760-0.801) | < 0.001 | 0.846 (0.818-0.874) | < 0.001 | 0.824 (0.793-0.856) | < 0.001 |
| Men\*After | 1.114 (1.102-1.126) | < 0.001 | 1.109 (1.095-1.122) | < 0.001 | 1.079 (1.062-1.096) | < 0.001 | 1.094 (1.073-1.115) | < 0.001 |
|  |  |  |  |  |  |  |  |  |
| Age 70-79 | 1.101 (1.081-1.121) | < 0.001 | 1.127 (1.106-1.148) | < 0.001 | 1.080 (1.050-1.110) | < 0.001 | 1.182 (1.147-1.216) | < 0.001 |
| Age 80-89 | 1.127 (1.104-1.150) | < 0.001 | 1.195 (1.169-1.221) | < 0.001 | 1.105 (1.065-1.145) | < 0.001 | 1.267 (1.224-1.311) | < 0.001 |
| Age 90+ | 1.090 (1.034-1.145) | 0.002 | 1.149 (1.082-1.215) | < 0.001 | 0.986 (0.838-1.145) | 0.851 | 1.354 (1.206-1.502) | < 0.001 |
| *No. of Observations* | 168,200 | | 129,389 | | 64,290 | | 64,960 | |
| *No. of Groups* | 16,820 | | 12,938 | | 6,429 | | 6,496 | |
| *VAR Ind. RE Log. Model* | 4.19 | | 3.59 | | 5.44 | | 3.56 | |
| *VAR Ind. RE NB Model* | 0.22 | | 0.22 | | 0.25 | | 0.28 | |
| *Overdisp. Par. NB Model* | 12.80 | | 17.50 | | 16.60 | | 11.30 | |