Supplementary Figure 1. Generalized estimating equation post-hoc predictive margins prediction for probability of frailty (0,1) over time by food insecurity (FI) and vision impairment (VI) status



Supplementary Figure 2. Generalized estimating equation post-hoc predictive margins prediction for probability of risk of multiple falls in last year (0,1) over time by food insecurity (FI) and vision impairment (VI) status



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| Supplementary Table 1. Baseline characteristics for the survey weighted population by food insecurity (FI) and vision impairment (VI) status, proportion or mean (SE) |
|  | No FI or VI | FI, no VI | VI, no FI | FI and VI | Total | p |
| **Women** | 0,4925 | 0,0188 | 0,0485 | 0,0066 | 0,5665 | <0.001 |
| **Age group** |  |  |  |  |  |  |
| 65-69 | 0,2114 | 0,0051 | 0,0078 | 0,0011 | 0,2254 | <0.001 |
| 70-74 | 0,2431 | 0,0077 | 0,0102 | 0,0019 | 0,263 |  |
| 75-79 | 0,1859 | 0,0061 | 0,0134 | 0,0018 | 0,2072 |  |
| 80-84 | 0,1341 | 0,0044 | 0,015 | 0,0012 | 0,1547 |  |
| 85-89 | 0,0804 | 0,0038 | 0,0138 | 0,002 | 0,0999 |  |
| 90+ | 0,0361 | 0,0014 | 0,0114 | 9,40E-04 | 0,0498 |  |
| **Race** |  |  |  |  |  |  |
| White | 0,7332 | 0,0208 | 0,0508 | 0,0057 | 0,8105 | <0.001 |
| Black | 0,0704 | 0,0028 | 0,0086 | 4,70E-04 | 0,0823 |  |
| Other | 0,0873 | 0,0049 | 0,0122 | 0,0028 | 0,1072 |  |
| **Married** | 0,8486 | 0,0261 | 0,0675 | 0,008 | 0,9501 | 0,053 |
| **Education** |  |  |  |  |  |  |
| **<HS** | 0,1706 | 0,0093 | 0,0261 | 0,0043 | 0,2104 | <0.001 |
| **HS grad** | 0,2498 | 0,0062 | 0,0209 | 0,0016 | 0,2785 |  |
| **>HS** | 0,4704 | 0,013 | 0,0249 | 0,0028 | 0,5111 |  |
| **Total income** |  |  |  |  |  |  |
| 1 | 0,1275 | 0,0087 | 0,0202 | 0,0037 | 0,1602 | <0.001 |
| 2 | 0,1489 | 0,0092 | 0,0167 | 0,002 | 0,1768 |  |
| 3 | 0,1568 | 0,0036 | 0,0169 | 0,0018 | 0,1791 |  |
| 4 | 0,1987 | 0,0049 | 0,0115 | 9,40E-04 | 0,2161 |  |
| 5 | 0,259 | 0,0021 | 0,0063 | 4,80E-04 | 0,2679 |  |
| **Community dwelling** | 0,8424 | 0,0258 | 0,0613 | 0,0069 | 0,9363 | <0.001 |
| **Body Mass Index classification** |  |  |  |  |  |
| <18.5 | 0,0145 | 8,20E-04 | 0,0029 | 7,10E-04 | 0,0189 | <0.001 |
| 18.5-24.9  | 0,2977 | 0,0079 | 0,0259 | 0,0028 | 0,3342 |  |
| 25.0-29.9 | 0,3423 | 0,0096 | 0,0214 | 0,0022 | 0,3756 |  |
| ≥30.0 | 0,2403 | 0,0103 | 0,0179 | 0,0028 | 0,2713 |  |
| **Waist circumference** | 39.6 (0.12) | 40.4 (0.63) | 40.3 (0.40) | 40.6 (1.03) |  |
| **Overall health** | 2.6 (0.02) | 3.8 (0.05) | 3.3 (0.06) | 3.9 (0.11) |  |  |
| **Current smoker** | 0,1251 | 0,0069 | 0,0144 | 0,0011 | 0,1475 | 0,014 |
| **Heart attack** | 0,0228 | 0,0022 | 0,0025 | 0,001 | 0,0286 | <0.001 |
| **Heart disease** | 0,1681 | 0,0088 | 0,0186 | 0,0029 | 0,1984 | <0.001 |
| **HTN** | 0,5783 | 0,0216 | 0,0541 | 0,0069 | 0,6609 | <0.001 |
| **Diabetes** | 0,213 | 0,0092 | 0,0241 | 0,0036 | 0,25 | <0.001 |
| **Stroke** | 0,018 | 0,0012 | 0,0051 | 7,80E-04 | 0,025 | <0.001 |
| **Cancer** | 0,0528 | 0,0017 | 0,0044 | 4,60E-04 | 0,0594 | 0,987 |
| **Dementia** | 0,0383 | 0,0013 | 0,0132 | 5,20E-04 | 0,0534 | <0.001 |
| **Depression** | 2.8 (0.02) | 4.3 (0.16) | 3.5 (0.08) | 4.4 (0.22) |  |  |
| **Anxiety** | 2.7 (0.02) | 4.3 (0.16) | 3.3 (0.08) | 4.6 (0.27) |  |  |
| **Frail** | 0,1004 | 0,0107 | 0,0188 | 0,0047 | 0,1345 | <0.001 |
| **Fall in last month** | 0,0915 | 0,0074 | 0,0154 | 0,0032 | 0,1174 | <0.001 |
| **Fall in last year** | 0,2065 | 0,0091 | 0,0198 | 0,0024 | 0,2378 | <0.001 |
| **Multiple falls**  | 0,3569 | 0,0282 | 0,0571 | 0,0127 | 0,4549 |  |
| Sample size, n=5963, representing, n=33,346,365 |  |  |  |