**Table S3. Mortality by vitamin D level in the general population**

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| --- | --- | --- | --- |
| **Variables** |  | **Age, sex, race adjusted model** | |
| **No. of deaths** | **HR (95%CI)** | ***p*** |
| **All-cause mortality** | | | |
| **Vitamin D ≥20 mg/dL** | 1389 | REF | <0.05 |
| **Vitamin D <20 mg/dL** | 1130 | 1.15 (1.02-1.30) |
| **Cardiovascular disease** | | | |
| **Vitamin D ≥20 mg/dL** | 300 | REF | 0.06 |
| **Vitamin D <20 mg/dL** | 254 | 1.28 (0.99-1.66) |
| **Malignancy** | | | |
| **Vitamin D ≥20 mg/dL** | 344 | REF | 0.98 |
| **Vitamin D <20 mg/dL** | 287 | 0.99 (0.77-1.29) |
| **Cerebrovascular disease** | | | |
| **Vitamin D ≥20 mg/dL** | 79 | REF | 0.19 |
| **Vitamin D <20 mg/dL** | 71 | 1.51 (0.82-2.78) |
| **Lung disease** | | | |
| **Vitamin D ≥20 mg/dL** | 103 | REF | <0.001 |
| **Vitamin D <20 mg/dL** | 87 | 1.43 (0.66-3.12) |
| **Kidney disease** | | | |
| **Vitamin D ≥20 mg/dL** | 13 | REF | 0.88 |
| **Vitamin D <20 mg/dL** | 13 | 0.91 (0.28-3.01) |
| **Diabetes** | | | |
| **Vitamin D ≥20 mg/dL** | 50 | REF | <0.01 |
| **Vitamin D <20 mg/dL** | 63 | 3.41 (1.61-7.21) |
| **Alzheimer’s disease** | | | |
| **Vitamin D ≥20 mg/dL** | 27 | REF | 0.24 |
| **Vitamin D <20 mg/dL** | 24 | 1.69 (0.70-4.03) |