**Supplemental Table 2. Association of mineral metabolism measures (continuous) and incident heart failure overall and by race/ethnicity**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Unadjusted** | | | **Model 1** | | | **Model 2** | |
| **Variable** | **HRα (95%CI**β**)** | **p-value** | **HR(95%CI)** | | **p-value** | **HR(95%CI)** | | **p-value** |
| **FGF23 per doubling** |  |  |  | |  |  | |  |
|  | 1.84 (1.53,2.22) | <0.001 | 1.75 (1.40,2.17) | | <0.001 | 1.55 (1.23,1.94) | | 0.0002 |
| White | 1.95 (1.42,2.68) | <0.001 | 1.69 (1.18, 2.42) | | 0.0039 | 1.48 (1.02, 2.14) | | 0.0399 |
| Chinese | 2.00 (1.09,3.64) | 0.0241 | 1.95 (1.02,3.72) | | 0.0433 | 1.79 (0.96,3.32) | | 0.0669 |
| Black | 1.68 (1.22,2.30) | 0.0014 | 1.63 (1.09,2.43) | | 0.0166 | 1.45 (0.96,2.17) | | 0.0739 |
| Hispanic | 1.97 (1.30,2.98) | 0.0014 | 2.00 (1.29,3.10) | | 0.0021 | 1.77 (1.15,2.74) | | 0.0096 |
| p-for-interaction | 0.898 |  | 0.902 | |  | 0.880 | |  |
| **Phosphorus per mg/dl** |  |  |  | |  |  | |  |
| Overall | 1.02 (0.82,1.27) | 0.8361 | 1.37 (1.08,1.74) | | 0.0103 | 1.35 (1.08,1.68) | | 0.0078 |
| White | 1.09 (0.79,1.50) | 0.5908 | 1.41 (1.02,1.96) | | 0.0375 | 1.42 (1.04,1.94) | | 0.0267 |
| Chinese | 1.34 (0.62,2.93) | 0.458 | 2.11 (0.97,4.61) | | 0.0598 | 2.16 (1.02,4.58) | | 0.0441 |
| Black | 0.86 (0.57,1.31) | 0.4909 | 1.20 (0.76,1.91) | | 0.4365 | 1.14 (0.72,1.82) | | 0.5734 |
| Hispanic | 1.04 (0.62,1.74) | 0.8944 | 1.32 (0.81,2.15) | | 0.2684 | 1.28 (0.85,1.92) | | 0.2352 |
| p-for-interaction | 0.716 |  | 0.646 | |  | 0.518 | |  |
| **PTH per doubling** |  |  |  | |  |  | |  |
| Overall | 1.52 (1.20,1.93) | 0.0006 | 1.36 (1.06,1.74) | | 0.0161 | 1.17 (0.92,1.49) | | 0.1974 |
| White | 1.28 (0.80,2.04) | 0.3005 | 1.09 (0.68,1.76) | | 0.7104 | 0.97 (0.62,1.50) | | 0.8892 |
| Chinese | 2.52 (1.32,4.83) | 0.0052 | 2.33 (1.17,4.61) | | 0.0155 | 2.06 (1.06,4.00) | | 0.0335 |
| Black | 1.46 (1.05,2.05) | 0.026 | 1.35 (0.94,1.92) | | 0.101 | 1.11 (0.80,1.55) | | 0.5277 |
| Hispanic | 1.83 (1.12,3.00) | 0.0155 | 1.64 (1.02,2.64) | | 0.0408 | 1.41 (0.94,2.11) | | 0.0966 |
| p-for-interaction | 0.246 |  | 0.170 | |  | 0.156 | |  |

**α**Hazard ratio from Cox proportional hazards regression model evaluating the hazard of heart failure per unit increase of mineral metabolism marker with log base 2 transformation for FGF-23 and PTH, and per mg/dl for phosphorus). βConfidence interval.

Model 1 includes age, gender, gross family income in the past 12 months, educational attainment, and in analyses including all participants, race/ethnicity. Model 2 includes Model 1 and adds body mass index, systolic blood pressure, use of antihypertensive medication, low-density lipoprotein, total cholesterol, diabetes status, smoking status and eGFR.