**Supplemental Table 3. Association of mineral metabolism markers with hazard of preserved ejection fraction heart failure, by race/ethnicity**

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| --- | --- | --- | --- | --- |
|  | **Model 1** |  | **Model 2** |  |
| **Variable** | **HRα (95%CI**β**)** | **p-value** | **HR(95%CI)** | **p-value** |
| **PTH > 65 vs <=65 pg/mL (ref.)** |  |  |  |  |
| Overall | 1.55 (0.93,2.57) | 0.0917 | 1.27 (0.75,2.13) | 0.3734 |
| White | 1.92 (0.94,3.91) | 0.0726 | 1.58 (0.78,3.20) | 0.2053 |
| Chinese | Insufficient data | - | Insufficient data | - |
| Black | 1.40 (0.50,3.92) | 0.5232 | 0.96 (0.31,2.97) | 0.9398 |
| Hispanic | 1.58 (0.58,4.34) | 0.3736 | 1.49 (0.54,4.13) | 0.4386 |
| **FGF23>46.5 vs <=46.5 pg/mL (ref.)** |  |  |  |  |
| Overall | 2.05 (1.40,3.01) | 0.0002 | 1.87 (1.24,2.82) | 0.0027 |
| White | 1.93 (1.14,3.26) | 0.0141 | 1.79 (1.04,3.07) | 0.0359 |
| Chinese | 1.14 (0.36,3.58) | 0.8262 | 1.05 (0.32,3.43) | 0.9405 |
| Black | 3.54 (1.43,8.74) | 0.0062 | 3.14 (1.19,8.28) | 0.0206 |
| Hispanic | 2.13 (0.86,5.28) | 0.1029 | 2.00 (0.79,5.07) | 0.1455 |
| **Phos > 4 vs. <=4 mg/dL (ref.)** |  |  |  |  |
| Overall | 1.04 (0.67,1.64) | 0.8525 | 1.06 (0.68,1.66) | 0.7876 |
| White | 0.74 (0.39,1.43) | 0.3754 | 0.73 (0.38,1.41) | 0.3518 |
| Chinese | 1.87 (0.63,5.56) | 0.2576 | 2.13 (0.71,6.41) | 0.18 |
| Black | 1.37 (0.49,3.86) | 0.5491 | 1.48 (0.53,4.19) | 0.4563 |
| Hispanic | 1.23 (0.47,3.22) | 0.6765 | 1.21 (0.47,3.16) | 0.6915 |

**α**Hazard ratio from Cox proportional hazards regression model evaluating the hazard of preserved ejection fraction heart failure among individuals with elevated circulating mineral metabolism levels to those without. 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.