**Supplemental table 8: Joint model of the risk of incident diabetes mellitus by time-updated eGFR and BUN category where eGFR was computed using the MDRD study equation**

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|  | **BUN ≤25 mg/dL**  Hazard Ratio  (95% confidence interval) | **BUN >25 mg/dL**  Hazard Ratio  (95% confidence interval) |
| **eGFR≥60 ml/min/1.73m2** | 1.00 | 1.27  (1.23, 1.30) |
| **60>eGFR≥45 ml/min/1.73 m2** | 1.01  (0.99, 1.02) | 1.22  (1.18, 1.25) |
| **45>eGFR≥30 ml/min/1.73 m2** | 1.02  (0.99, 1.05) | 1.20  (1.17, 1.23) |
| **30>eGFR≥15 ml/min/1.73 m2** | 1.00  (0.87, 1.15) | 1.24  (1.19, 1.30) |
| **eGFR<15 ml/min/1.73 m2** | 1.46  (0.83, 2.57) | 1.72  (1.54, 1.93) |
| The primary predictor was time-varying eGFR category and eGFR≥ 60 ml/min/1.73m2 served as the reference category.  Survival model controlled for time independent variables age, race and gender and time-varying variables carbon dioxide, BMI, albuminuria, frequency of outpatient encounters, frequency of hospitalizations, chronic lung disease, peripheral artery disease, cardiovascular disease, cerebrovascular disease, dementia, hyperlipidemia, hepatitis C, HIV, cancer and use of medications that increase risk of diabetes mellitus  eGFR was computed from the MDRD study equation | | |