**Supplemental Figure 4**. Predictive margins of SUA by Time and dairy intake, from mixed-effects regression model, total population1

5.4

5.6

5.8

6

6.2

SUA

0

.5

1

1.5

2

2.5

3

3.5

4

4.5

5

5.5

6

6.5

7

7.5

8

Time(y)

0 cup equiv/d

3 cup equiv/d

1 Predictive margins obtained from mixed-effects regression model with SUA as the outcome, random effects added to slope and intercept, and both slopes and intercept adjusted for multiple factors including age, sex, poverty status, marital status, education, smoking and drug use, several dietary factors, BMI, 10 principal components for population structure and an inverse mills ratio. The Figure simulates the trajectory of a population with comparable characteristics (covariates set at their observed values in the sample) when exposed alternatively to 4 levels of dairy intakes (0,1,2,3 cups equiv./d, bottom to top) (See Table 2, Model 1).