Supplemental Table 2. Association between inflammatory biomarkers and unadjusted ratio, retinol, and RBP stratified by day1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Unadjusted retinol:RBP ratio** | **Retinol (μmol/L)** | **RBP (μmol/L)** |
| **Day** | **Predictor** | **β**2 | **p-value** | **β**2 | **p-value** | **β**2 | **p-value** |
| **0** | AGP3 | -0.41 | <0.01\* | -0.25 | 0.28 | 0.67 | 0.04\* |
| CRP4 | 0.005 | 0.61 | 0.04 | 0.03\* | 0.02 | 0.35 |
| **1** | AGP | -0.11 | 0.22 | 0.38 | 0.22 | 0.97 | 0.08\* |
| CRP | -0.02 | <0.01\* | 0.02 | 0.32 | 0.11 | 0.01\* |
| **2** | AGP | -0.15 | 0.01\* | 0.33 | 0.03\* | 0.91 | 0.0004\* |
| CRP | 0.0000001 | - | 0 | 0.96 | 0.001 | 0.94 |
| **3** | AGP | -0.03 | 0.35 | -0.11 | 0.32 | 0.1 | 0.57 |
| CRP | -0.001 | 0.23 | -0.004 | 0.08 | -0.004 | 0.29 |
| **4** | AGP | -0.07 | 0.07 | -0.17 | 0.22 | -0.03 | 0.88 |
| CRP | 0.0001 | 0.94 | -0.01 | 0.29 | -0.01 | 0.22 |
| **7** | AGP | -0.06 | 0.37 | 0.09 | 0.66 | 0.12 | 0.74 |
| CRP | 0.001 | 0.68 | 0.01 | 0.27 | 0.01 | 0.52 |
| **14** | AGP | -0.08 | 0.18 | 0.15 | 0.54 | 0.38 | 0.34 |
| CRP | -0.004 | 0.36 | 0.03 | 0.12 | 0.07 | 0.02\* |
| **21** | AGP | -0.09 | 0.15 | 0.08 | 0.77 | 0.22 | 0.62 |
| CRP | -0.01 | 0.24 | 0.03 | 0.26 | 0.07 | 0.09 |
| **28** | AGP | 0.03 | 0.67 | -0.15 | 0.64 | -0.22 | 0.63 |
| CRP | -0.0001 | 0.82 | 0.01 | 0.67 | 0.02 | 0.37 |
| **35** | AGP | -0.01 | 0.93 | 0.52 | 0.14 | 0.81 | 0.15 |
| CRP | 0.005 | 0.38 | 0.02 | 0.38 | 0.02 | 0.65 |

1All individuals (n=51) were included in the models for this analysis

2Betas for these figures were generated using seperate linear models by day, to evaluate the association between each inflammatory biomarker (CRP and AGP) and the three outcomes: retinol, RBP, and the molar ratio of retinol to RBP (in three separate models).

3AGP α(1)-acid glycoprotein (g/L)

4C-reactive protein (mg/L)