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**Supplemental Fig. 1.** Postprandial responses and AUC0-180 min of BH4 (*A*), BH2 (*B*), and BH4/BH2 (*C*) following ingestion of glucose in the absence or presence of egg-based meals by prediabetic men. Postprandial responses were analyzed using 2-way RM ANOVA with Bonferroni’s post-hoc test. AUC0-180 min was calculated using the trapezoidal rule and analyzed using 1-way RM ANOVA with Bonferroni’s post-hoc test. Data are means ± SEM, *n = 20*. Groups were not significantly different, *P>*0.05. BH4, tetrahydrobiopterin; BH2, dihydrobiopterin.



**Supplemental Fig. 2.** Postprandial responses and AUC0-180 min of CRP (*A*), TNF-α (*B*), and MPO (*C*) following ingestion of glucose in the absence or presence of egg-based meals by prediabetic men. Data are means ± SEM, *n = 20*. Postprandial responses were analyzed using 2-way RM ANOVA with Bonferroni’s post-hoc test. AUC0-180 min was calculated using the trapezoidal rule and analyzed using 1-way RM ANOVA with Bonferroni’s post-hoc test. Groups were not significantly different, *P>*0.05. CRP, C-reactive protein; TNF-α, tumor necrosis factor-α; MPO, myeloperoxidase.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplemental Table 1.** AUC0-180 min for plasma antioxidants from each intervention arm.\*, † | | | | | | | | |
|  | GLU | | EGG | | WHITE | | YOLK | |
|  | Mean | SEM | Mean | SEM | Mean | SEM | Mean | SEM |
| Vitamin C (μmol/L) | -635.0 | 127.0 | -494.0 | 109.0 | -567.0 | 152.0 | -518.0 | 125.0 |
| Uric acid (μmol/L) | -693.0 | 661.0 | -773.0 | 590.0 | -1386.0 | 533.0 | -1102.0 | 737.0 |
| α-tocopherol/total lipid (μmol/mmol) | 10.9 | 15.8 | 2.2 | 12.9 | -4.7 | 15.0 | -2.1 | 15.5 |
| γ-tocopherol/total lipid (μmol/mmol) | 2.2 | 5.1 | -6.3 | 4.9 | -8.3 | 3.9 | -0.02 | 5.1 |
| α-carotene/total lipid (nmol/mmol) | -10.0 | 40.8 | 85.4 | 84.1 | 48.6 | 79.5 | -35.5 | 51.2 |
| β-carotene/total lipid (nmol/mmol) | 102.7 | 154.5 | 295.2 | 124.2 | 67.2 | 35.7 | -189.9 | 76.5 |
| α-cryptoxanthin/total lipid (nmol/mmol) | -60.9 | 76.0 | 67.5 | 71.2 | 80.8 | 90.4 | -26.4 | 73.5 |
| β-cryptoxanthin/total lipid (nmol/mmol) | 108.0 | 51.8 | 19.8 | 77.3 | 138.6 | 52.7 | 82.7 | 69.7 |
| Lutein/total lipid (nmol/mmol) | 7.6 | 121.8 | 17.8 | 82.5 | 205.3 | 93.1 | -346.3 | 157.8 |
| Lycopene/total lipid (nmol/mmol) | -250.4 | 765.4 | -47.0 | 568.7 | 43.2 | 684.1 | -420.9 | 728.6 |
| Zeaxanthin/total lipid (nmol/mmol) | -36.5 | 72.2 | 38.7 | 68.3 | 7.8 | 50.2 | 51.9 | 55.9 |

\*Data are means ± SEM, *n = 20*

†*P>*0.05 for all data reported with the exception of an observed main effect for Lutein/total lipid (*P=*0.02); no post-hoc effects were observed for Lutein/total lipid. AUC0-180 min, area under the curve (units\*min).