**Supplementary Materials: Reproductive state and choline intake influence enrichment of plasma lysophosphatidylcholine-DHA: a post-hoc analysis of a controlled-feeding trial**

**Supplementary Table 1 – LPC-DHA Peak Areas Across Reproductive States and Study Weeks**

|  |  |  |
| --- | --- | --- |
|  | **LPC-DHA Peak Area** | **Pairwise Comparisons** |
|  | **Non-Pregnant** | **Pregnant** | **Lactating** | **NP vs. P** | **NP vs. L** | **L vs. P** |
| ***Study Week*** | Mean | SD | Mean | SD | Mean | SD |  |  |  |
| *0* | 158597414a | 69707894 | 97515647 a | 46383995 | 205455942 a | 141263111 | 0.078 | >0.1 | **<0.01** |
| *6* | 176185276 a | 81956214 | 80138851 a | 40258417 | 227474369 a | 125686094 | **<0.01** | >0.1 | **<0.01** |
| *10\** | 165268529a | 86489022 | 72454771a | 30456711 | 160831568a | 97838898 | **<0.01** | >0.1 | **<0.01** |

P-values for pairwise comparisons among reproductive states at each study week are presented. Significant (p<0.05) differences across study weeks within reproductive states are indicated by superscript letters. Generally we observed lower LPC-DHA peak areas for the pregnant (P) group relative the non-pregnant (NP) and lactating (L) groups at each study week. Within the pregnant state, we observed a significant reduction in the total LPC-DHJA peak areas by study-end.

\*The peak area is the sum of the labeled and unlabeled peaks.

**Supplementary Table 2 – Total LPC Peak Areas Across Reproductive States and Study Weeks**

|  |  |  |
| --- | --- | --- |
|  | **Total LPC Peak Area** | **Pairwise Comparisons** |
|  | **Non-Pregnant** | **Pregnant** | **Lactating** | **NP vs. P** | **NP vs. L** | **L vs. P** |
| ***Study Week*** | Mean | SD | Mean | SD | Mean | SD |  |  |  |
| *0* | 25203836245 a | 10487718142 | 13864676315 a | 4558323995 | 28541763839 a | 11739042817 | **<0.01** | >0.1 | **<0.01** |
| *6* | 20380885583 a | 9325275310 | 9915445928 b | 3970091418 | 28875406258 a | 12181113754 | **<0.01** | **<0.01** | **<0.01** |
| *10\** | 18740228704a | 8099578459 | 7822308734b | 2944756923 | 21575210867a | 10185443131 | **<0.01** | >0.1 | **<0.01** |

P-values for pairwise comparisons between reproductive life states at each study week are presented. Significant (p<0.05) differences across study weeks within reproductive states are indicated by superscript letters. Generally, we observed lower total LPC peak areas for the pregnant (P) group relative the non-pregnant (NP) and lactating (L) groups at each study week. Within the pregnant state, we observed a significant reduction in the total LPC peak area across study weeks.

\*The peak area is the sum of the labeled and unlabeled peaks.