**Supplemental table 2: Differences in selected sphingolipids**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Biochemical Name** | **Portal vein vs RA pre- TIPS** | | | **RA post- vs RA pre-TIPS** | | | **RA pre-TIPS vs healthy controls** | | |
|  | **Fold Change** | **P value** | **Q value** | **Fold Change** | **P value** | **Q value** | **Fold Change** | **P value** | **Q value** |
| **Sphinganine** | 0.97 | 0.42 | 0.56 | 1.06 | 0.91 | 0.6 | 1.72 | 0.006 | 0.009 |
| **Dphinganine-1-phosphate** | 0.92 | 0.24 | 0.46 | 0.69 | 0.002 | 0.02 | 1.89 | 0.0001 | 0.0003 |
| **N-palmitoyl-sphinganine (d18:0/16:0)** | 1.09 | 0.19 | 0.42 | 1.04 | 0.46 | 0.4 | 0.89 | 0.49 | 0.3 |
| **N-behenoyl-sphingadienine (d18:2/22:0)** | 1.28 | 0.002 | 0.06 | 1.21 | 0.02 | 0.06 | 0.32 | 2.06E-08 | 2.97E-07 |
| **Behenoyl dihydrosphingomyelin (d18:0/22:0)** | 1.15 | 0.02 | 0.15 | 1.09 | 0.24 | 0.28 | 0.46 | 0.0001 | 0.0003 |
| **Tricosanoyl sphingomyelin (d18:1/23:0)** | 1.12 | 0.02 | 0.18 | 1.06 | 0.19 | 0.25 | 0.41 | 5.30E-07 | 3.57E-06 |
| **Lignoceroyl sphingomyelin (d18:1/24:0)** | 1.12 | 0.02 | 0.18 | 1.09 | 0.16 | 0.22 | 0.4 | 2.09E-09 | 5.09E-08 |
| **Sphingomyelin (d18:1/20:0, d16:1/22:0)** | 1.07 | 0.0448 | 0.24 | 1.03 | 0.35 | 0.35 | 0.46 | 3.73E-08 | 4.70E-07 |
| **Sphingosine** | 0.94 | 0.3395 | 0.51 | 0.78 | 0.04 | 0.1 | 1.52 | 0.03 | 0.04 |
| **Sphingosine 1-phosphate** | 0.93 | 0.24 | 0.46 | 0.72 | 0.0005 | 0.01 | 1.6 | 0.0005 | 0.001 |
| **N-palmitoyl-sphingosine (d18:1/16:0)** | 1.08 | 0.1 | 0.33 | 1.16 | 0.01 | 0.06 | 1.46 | 0.0003 | 0.0007 |
| **N-stearoyl-sphingosine (d18:1/18:0)\*** | 1.23 | 0.0006 | 0.03 | 1.22 | 0.002 | 0.02 | 0.71 | 0.06 | 0.06 |

**Abbreviations:** HCV: hepatitis C virus, ETOH: alcoholic, NASH: non-alcoholic steatohepatitis, RA: right atrial, RV: right ventricular, RVSP: right ventricular systolic pressure (estimated by echocardiogram), TIPS: Transjugular intrahepatic portosystemic shunt