<table>
<thead>
<tr>
<th>Metabolite</th>
<th>Week 14 Control</th>
<th>Week 14 MetS</th>
<th>Week 28 Control</th>
<th>Week 28 MetS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Hydroxy isobutyrate</td>
<td>0.5±0.1</td>
<td>0.7±0.2</td>
<td>0.5±0.1</td>
<td>0.6±0.2</td>
</tr>
<tr>
<td>2-Methylglutarate</td>
<td>3.3±0.5</td>
<td>3.1±0.4</td>
<td>3.4±0.8</td>
<td>3.1±0.6</td>
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<tr>
<td>3-Aminoisobutyrate</td>
<td>1.7±0.1</td>
<td>1.9±0.3</td>
<td>1.8±0.1</td>
<td>1.9±0.4</td>
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<tr>
<td>3-Hydroxybutyrate</td>
<td>2.4±0.3</td>
<td>2.4±0.2</td>
<td>2.3±0.3</td>
<td>2.7±0.6</td>
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<tr>
<td>Acetate</td>
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<td>0.5±0.1</td>
<td>0.5±0.1</td>
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<tr>
<td>Cellobiose</td>
<td>4.7±0.8</td>
<td>5.1±1.7</td>
<td>5.9±1.6$</td>
<td>6.3±1.6$</td>
</tr>
<tr>
<td>Choline</td>
<td>0.69±0.15</td>
<td>0.79±0.13</td>
<td>0.71±0.2</td>
<td>0.63±0.11</td>
</tr>
<tr>
<td>Citrate</td>
<td>1.1±1.0</td>
<td>1.4±0.2</td>
<td>1.2±0.1</td>
<td>1.4±0.5</td>
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<tr>
<td>Creatine</td>
<td>0.49±0.03</td>
<td>0.50±0.11</td>
<td>0.50±0.08</td>
<td>0.48±0.11</td>
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<tr>
<td>CK</td>
<td>0.49±0.04</td>
<td>0.49±0.07</td>
<td>0.49±0.07</td>
<td>0.47±0.08</td>
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<tr>
<td>Creatinine</td>
<td>0.84±0.03</td>
<td>0.91±0.14</td>
<td>0.89±0.12</td>
<td>0.83±0.15</td>
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<tr>
<td>Dimethylamine</td>
<td>0.17±0.02</td>
<td>0.18±0.03</td>
<td>0.16±0.19</td>
<td>0.16±0.04</td>
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<tr>
<td>Ethanol</td>
<td>1.13±0.10</td>
<td>1.29±0.30</td>
<td>1.43±0.14</td>
<td>1.3±0.29</td>
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<tr>
<td>Formate</td>
<td>0.15±0.04</td>
<td>0.14±0.04</td>
<td>0.14±0.02</td>
<td>0.13±0.04</td>
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<tr>
<td>Fumarate</td>
<td>0.05±0.01</td>
<td>0.05±0.01</td>
<td>0.05±0.01</td>
<td>0.04±0.01</td>
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<tr>
<td>Glycerate</td>
<td>2.4±0.5</td>
<td>2.1±0.3</td>
<td>1.9±0.5$</td>
<td>1.9±0.5$</td>
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<tr>
<td>Isobutyrate</td>
<td>0.81±0.01</td>
<td>0.83±0.04</td>
<td>0.9±0.10</td>
<td>0.8±0.06</td>
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<tr>
<td>Kynurenine</td>
<td>1.9±0.1</td>
<td>2.1±0.4</td>
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<td>1.9±0.4</td>
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<tr>
<td>Myoinositol</td>
<td>1.8±0.2</td>
<td>1.8±0.3</td>
<td>2.1±0.2</td>
<td>2.1±0.5</td>
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<tr>
<td>N-acetylcysteine</td>
<td>1.7±0.2</td>
<td>1.7±0.3</td>
<td>1.7±0.1</td>
<td>1.7±0.2</td>
</tr>
<tr>
<td>Succinate</td>
<td>0.17±0.02</td>
<td>0.19±0.06</td>
<td>0.19±0.04</td>
<td>0.17±0.04</td>
</tr>
<tr>
<td>Succinylacetone</td>
<td>1.1±0.1</td>
<td>1.4±0.4</td>
<td>1.2±0.2</td>
<td>1.15±0.3</td>
</tr>
<tr>
<td>Trimethylamine</td>
<td>0.22±0.01</td>
<td>0.24±0.04</td>
<td>0.23±0.03</td>
<td>0.21±0.04</td>
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<td>Trimethylamine-N-oxide</td>
<td>0.53±0.29</td>
<td>0.61±0.23</td>
<td>0.46±0.12</td>
<td>0.97±0.9</td>
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<tr>
<td>Urea</td>
<td>0.19±0.09</td>
<td>0.14±0.08</td>
<td>0.18±0.03</td>
<td>0.21±0.08</td>
</tr>
</tbody>
</table>

**S4 Table. Metabolomic analysis of other metabolites.** Control (n=10) and MetS (n=11). $p<0.05$ vs. week 14.