### Case:Control Summary counts

<table>
<thead>
<tr>
<th>Variant 1</th>
<th>Variant 2</th>
<th>Variant 3</th>
<th>Variant 4</th>
<th>Variant 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:2</td>
<td>1:0</td>
<td>200:225</td>
<td>6:1</td>
<td>0:4</td>
</tr>
</tbody>
</table>

### Collapsing methods

- Included
- Included
- Excluded (above MAF threshold)
- Included
- Included

### Aggregation methods

- Included
- Included
- Included (typically down-weighted owing to high frequency)
- Included
- Included

### Bi-directional methods

- Included as risk variant
- Included as risk variant
- Excluded (above MAF threshold)
- Included as risk variant
- Included as protective variant

### Single SNP methods

- Test each variant individually for association with disease