**Table S4**

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| --- | --- | --- | --- |
| **Phenotype** | **Estimated Risk** | **Saw Data First** | **Estimated Risk \* Saw Data First** |
| Heart attack | 0.00178 | 0.0665 | 0.039 |
| Breast cancer | 4.00E-05 | 0.305 | 0.121 |
| Parkinson's disease | 0.55 | 0.179 | 0.787 |
| Bipolar disorder | 0.811 | 0.174 | 0.183 |
| Crohn's disease | 0.77 | 0.175 | 0.199 |
| Rheumatoid arthritis | 0.0388 | 0.819 | 0.199 |
| Obesity | 6.51E-05 | 0.169 | 0.216 |
| Type 1 diabetes | 0.000349 | 0.318 | 0.23 |
| Psoriasis | 2.71E-08 | 0.209 | 0.261 |
| Lung cancer | 0.758 | 0.403 | 0.324 |
| Macular degeneration | 0.000133 | 0.0486 | 0.328 |
| Prostate cancer | 6.73E-08 | 0.0783 | 0.411 |
| Ulcerative colitis | 0.156 | 0.795 | 0.51 |
| Type 1 diabetes | 1.37E-05 | 0.851 | 0.562 |
| Colorectal cancer | 0.837 | 0.864 | 0.743 |
| Celiac disease | 0.000161 | 0.103 | 0.873 |
| Lupus | 0.335 | 0.447 | 0.9 |
| Glaucoma | 0.589 | 0.791 | 0.912 |