**输出结果1：卡方检验分析结果**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 题目 | 名称 | NObeyesdad | | | | | | | 总计 | 检验方法 | X² | P |
| Normal\_Weight | Overweight\_Level\_I | Obesity\_Type\_I | Overweight\_Level\_II | Obesity\_Type\_II | Insufficient\_Weight | Obesity\_Type\_III |
| Gender | 0.0 | 87 | 68 | 50 | 50 | 0 | 88 | 323 | 666 | pearson卡方检验 | 616.933 | 0.000\*\*\* |
| 1.0 | 109 | 80 | 144 | 115 | 212 | 49 | 1 | 710 |
| 合计 | | 196 | 148 | 194 | 165 | 212 | 137 | 324 | 1376 |
| FAVC | 0.0 | 53 | 12 | 7 | 46 | 5 | 33 | 1 | 157 | pearson卡方检验 | 183.397 | 0.000\*\*\* |
| 1.0 | 143 | 136 | 187 | 119 | 207 | 104 | 323 | 1219 |
| 合计 | | 196 | 148 | 194 | 165 | 212 | 137 | 324 | 1376 |
| FCVC | 1.0 | 15 | 5 | 12 | 6 | 20 | 13 | 0 | 71 | pearson卡方检验 | 490.527 | 0.000\*\*\* |
| 2.0 | 107 | 95 | 142 | 108 | 114 | 40 | 0 | 606 |
| 3.0 | 74 | 48 | 40 | 51 | 78 | 84 | 324 | 699 |
| 合计 | | 196 | 148 | 194 | 165 | 212 | 137 | 324 | 1376 |
| SCC | 0.0 | 175 | 127 | 192 | 161 | 211 | 119 | 324 | 1309 | pearson卡方检验 | 96.169 | 0.000\*\*\* |
| 1.0 | 21 | 21 | 2 | 4 | 1 | 18 | 0 | 67 |
| 合计 | | 196 | 148 | 194 | 165 | 212 | 137 | 324 | 1376 |
| SMOKE | 0.0 | 188 | 147 | 193 | 163 | 197 | 136 | 323 | 1347 | pearson卡方检验 | 39.9 | 0.000\*\*\* |
| 1.0 | 8 | 1 | 1 | 2 | 15 | 1 | 1 | 29 |
| 合计 | | 196 | 148 | 194 | 165 | 212 | 137 | 324 | 1376 |
| family\_history\_with\_overweight | 0.0 | 88 | 35 | 5 | 8 | 0 | 70 | 0 | 206 | pearson卡方检验 | 418.16 | 0.000\*\*\* |
| 1.0 | 108 | 113 | 189 | 157 | 212 | 67 | 324 | 1170 |
| 合计 | | 196 | 148 | 194 | 165 | 212 | 137 | 324 | 1376 |
| Age\_Group | 1.0 | 178 | 143 | 186 | 154 | 212 | 119 | 324 | 1316 | pearson卡方检验 | 63.158 | 0.000\*\*\* |
| 2.0 | 18 | 5 | 8 | 11 | 0 | 18 | 0 | 60 |
| 合计 | | 196 | 148 | 194 | 165 | 212 | 137 | 324 | 1376 |
| 注：\*\*\*、\*\*、\*分别代表1%、5%、10%的显著性水平 | | | | | | | | | | | | |

**输出结果2：效应量化分析**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 字段名/分析项 | Phi | Crammer's V | 列联系数 | lambda |
| Gender | 0.67 | 0.67 | 0.556 | 0.542 |
| FAVC | 0.365 | 0.365 | 0.343 | 0.000 |
| FCVC | 0.597 | 0.422 | 0.513 | 0.406 |
| SCC | 0.264 | 0.264 | 0.256 | 0.000 |
| SMOKE | 0.17 | 0.17 | 0.168 | 0.000 |
| family\_history\_with\_overweight | 0.551 | 0.551 | 0.483 | 0.015 |
| Age\_Group | 0.214 | 0.214 | 0.209 | 0.000 |