**Supplementary data**

Cumulative proportion of adults with the specified number of adjusted learning and memory, language and executive functions low scores below the specified percentile cutoff by CPUD and HC.

|  |  |  |
| --- | --- | --- |
|  Learning and memory |  | Cumulative percent with low scores below the cutoffs |
|  | **Number of Low Scores** | **< 25th percentile** | **<16th Percentile** | **<10th Percentile** | **≤ 5th Percentile** | **< 2nd Percentile** |
| CPUD | No low Scores | 10.5% | 21.6% | 31.5% | 46.9% | 66.0% |
| 1 or more | 89.5% | 78.4% | 68.5% | 53.1% | 34.0% |
| 2 or more | 70.4% | 54.9% | 42.6% | 22.2% | 8.6% |
| 3 or more | 46.9% | 30.9% | 14.8% | 4.9% | 1.9% |
| 4 or more | 24.1% | 9.3% | 2.5% | 0.6% | -- |
| 5 low scores | 8.6% | 0.6% | -- | -- | -- |
| HC | No low Scores | 44.4% | 58.0% | 67.3% | 76.5% | 88.9% |
| 1 or more | 55.6% | 42.0% | 32.7% | 23.5% | 11.1% |
| 2 or more | 29.0% | 19.8% | 11.7% | 6.2% | 3.1% |
| 3 or more | 11.7% | 1.9% | 1.9% | 1.2% | -- |
| 4 or more | 3.1% | -- | -- | -- | -- |
| 5 low scores | -- | -- | -- | -- | -- |
|  Language | HC CPUD | No low Scores | 19.3% | 41.0% | 52.2% | 73.3% | 90.7% |
| 1 or more | 80.7% | 59.0% | 47.8% | 26.7% | 9.3% |
| 2 or more | 57.8% | 31.1% | 26.7% | 12.4% | 3.1% |
| 3 or more | 35.4% | 18.0% | 10.6% | 2.5% | -- |
| 4 or more | 23.0% | 5.6% | 4.3% | -- | -- |
| 5 or more | 8.1% | -- | 1.2% | -- | -- |
| 6 low scores | 0.6% | -- | -- | -- | -- |
| No low Scores | 42.0% | 59.9% | 66.7% | 82.7% | 93.8% |
| 1 or more | 58.0% | 40.1% | 33.3% | 17.3% | 6.2% |
| 2 or more | 38.3% | 19.8% | 12.3% | 6.2% | 1.2% |
| 3 or more | 24.1% | 8.6% | 5.6% | 3.1% | -- |
| 4 or more | 13.6% | 3.1% | 3.7% | 1.2% | -- |
| 5 or more | 4.9% | 0.6% | 0.6% | -- | -- |
| 6 low scores | 0.6% | -- | -- | -- | -- |
|  Executive Functions | CPUD | No low Scores | 8.0% | 14.8% | 29.0% | 44.4% | 62.3% |
| 1 or more | 92.0% | 85.2% | 71.0% | 55.6% | 37.7% |
| 2 or more | 69.8% | 57.4% | 39.5% | 24.7% | 14.8% |
| 3 or more | 46.3% | 35.8% | 22.2% | 14.2% | 7.4% |
| 4 or more | 30.9% | 19.8% | 13.6% | 6.8% | 3.1% |
| 5 or more | 13.0% | 8.0% | 4.9% | 2.5% | 0.6% |
| 6 or more | 4.9% | 2.5% | 1.9% | 0.6% | -- |
| 7 low scores | 1.2% | -- | -- | -- | -- |
|  |  HC | No low Scores | 32.7% | 42.0% | 50.6% | 61.1% | 71.0% |
| 1 or more | 67.3% | 58.0% | 49.4% | 38.9% | 29.0% |
| 2 or more | 43.2% | 29.0% | 24.7% | 19.8% | 10.5% |
| 3 or more | 24.1% | 17.3% | 9.9% | 7.4% | 2.5% |
| 4 or more | 14.8% | 9.9% | 6.2% | 4.3% | -- |
| 5 or more | 7.4% | 5.6% | 2.5% | 0.6% | -- |
| 6 or more | 4.3% | 1.2% | 0.6% | -- | -- |
| 7 low scores | 0.6% | -- | -- | -- | -- |

*Note*: HC: healthy control; CPUD: coca paste user disorder