**Supplementary Table 1.** Associations between study variables with healthy beverage index in total population in multivariate analysis.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Low HDL-C5** | **High Triglyceride4** | **High Waist Circumference3** | **High fasting blood glucose2** | **High Blood Pressure1** | **Metabolic Syndrome Components** |
| P-Value | MultivariateOR (95%CI) | P-Value | MultivariateOR (95%CI) | P-Value | MultivariateOR (95%CI) | P-Value | MultivariateOR (95%CI) | P-Value | MultivariateOR (95%CI) | Variables |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | HBI T1 |
| **0.017** | **1.24****(1.40-1.48)** | - | - | 0.084 | 1.23(0.97-1.57) | - | - | 0.282 | 0.90(0.74-1.09) | HBI T2 |
| 0.285 | 0.90(0.74-1.08) | - | - | **0.009** | **0.70****(0.54-0.91)** | - | - | **0.001>** | **0.64****(0.52-0.79)** | HBI T3 |
| 0.063 | 1.01(0.99-1.02) | - | - | **0.008** | **1.02****(1.00-1.03)** | - | - | **0.001>** | **1.05****(1.03-1.06)** | Age (year) |
| - | - | - | - | **<0.001** | **2.01****(1.91-2.12)** | - | - | **0.001>** | **1.14****(1.12-1.16)** | BMI (Kg/m2) |
| - | - | - | - | - | - | **0.024** | **1.00****(1.00-1.00)** | - | - | Physical activity (Met/week) |
| - | - | - | - | 0.052 | 1.00(1.00-1.00) | - | - | - | - | Energy (Kcal) |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | Male | Gender |
| **0.001>** | **0.18****(0.15-0.21)** | - | - | **0.001>** | **31.47****(23.57-42.02)** | - | - | **0.001>** | **0.18****(0.15-0.22)** | Female |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | low | SES |
| - | - | - | - | 0.094 | 0.80(0.63-1.03) | 0.198 | 0.87(0.70-1.07) | - | - | Moderate |
| - | - | - | - | 0.422 | 1.11(0.86-1.43) | **<0.001** | **0.65****(0.51-0.81)** | - | - | High |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | No | Smoke exposure |
| - | - | - | - | - | - | 0.056 | 1.32(0.99-1.76) | - | - | Yes |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | No | Opium use |
| - | - | **0.030** | **0.44****(0.21-0.92)** | - | - | - | - | - | - | Yes |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | No | Alcohol use |
| - | - | 0.116 | 1.46(0.93-1.85) | **0.006** | **1.98****(1.21-3.25)** | - | - | - | - | Yes |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | Diploma or less | Education |
| - | - | **0.036** | **1.11****(1.02-2.08)** | - | - | - | - | - | - | Higher diploma |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | No | MedicationSupplementation |
| - | - | - | - | - | - | - | - | **0.016** | **0.79****(0.66-0.95)** | Yes |

SES, socioeconomic status.

Missing values in each variable were excluded from the analyses.

Using Backward LR method for Multivariate analysis.

Significant values are shown in bold.

1. Adjusted for HBI, age, BMI, PA, Energy, gender, SES, Smoke exposer, opium use, alcohol use, education, medication supplementation.
2. Adjuster for age, PA, SES.
3. Adjusted for HBI, age, BMI, PA, energy, gender, SES, smoke exposer, alcohol use, education, medication supplementation.
4. Adjusted for gender, opium use, medication supplementation.
5. Adjusted for HBI, age, PA, Energy, gender, Smoke exposer, opium use, alcohol use, education, medication supplementation.

**Supplementary Table 2.** Associations between study variables with healthy beverage score in total population in multivariate analysis.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Low HDL-C5** | **High Triglyceride4** | **High Waist Circumference3** | **High fasting blood glucose2** | **High Blood Pressure1** | **Metabolic Syndrome Components** |
| P-Value | MultivariateOR (95%CI) | P-Value | MultivariateOR (95%CI) | P-Value | MultivariateOR (95%CI) | P-Value | MultivariateOR (95%CI) | P-Value | MultivariateOR (95%CI) | Variables |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | HBS T1 |
| - | - | - | - | - | - | - | - | **0.025** | **0.79****(0.64-0.97)** | HBS T2 |
| - | - | - | - | - | - | - | - | 0.239 | 0.88(0.72-1.08) | HBS T3 |
| 0.062 | 1.01(0.99-1.02) | - | - | **0.010** | **1.02****(1.00-1.03)** | - | - | **0.001>** | **1.05****(1.03-1.06)** | Age (year) |
| - | - | - | - | **<0.001** | **2.00****(1.90-2.10)** | - | - | **0.001>** | **1.14****(1.11-1.16)** | BMI (Kg/m2) |
| - | - | - | - | - | - | **0.024** | **1.00****(1.00-1.00)** | - | - | Physical activity (Met/week) |
| - | - | - | - | **0.015** | **1.00****(1.00-1.00)** | - | - | - | - | Energy (Kcal) |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | Male | Gender |
| **0.001>** | **0.18****(0.15-0.21)** | - | - | **0.001>** | **30.49****(22.89-42.60)** | - | - | **0.001>** | **0.18****(0.14-0.21)** | Female |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | low | SES |
| - | - | - | - | 0.090 | 0.80(0.63-1.03) | 0.198 | 0.87(0.70-1.07) | - | - | Moderate |
| - | - | - | - | 0.420 | 1.11(0.86-1.43) | **<0.001** | **0.65****(0.51-0.81)** | - | - | High |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | No |  |
| - | - | - | - | - | - | 0.056 | 1.32(0.99-1.76) | - | - | Yes | Smoke Exposure |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | No | Opium use |
| - | - | **0.036** | **0.45****(0.22-0.91)** | - | - | - | - | - | - | Yes |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | No | Alcohol use |
| - | - | **0.036** | **1.46****(1.02-2.08)** | **0.009** | **1.91****(1.17-3.11)** | - | - | - | - | Yes |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | Diploma or less | Education  |
| - | - | - | - | - | - | - | - | - | - | Higher diploma |
| - | Ref | - | Ref | - | Ref | - | Ref | - | Ref | No | MedicationSupplementation |
| - | - | - | - | - | - | - | - | **0.019** | **0.80****(0.66-0.96)** | Yes |

SES, socioeconomic status.

Missing values in each variable were excluded from the analyses.

Using Backward LR method for Multivariate analysis.

Significant values are shown in bold.

1. Adjusted for HBS, age, BMI, PA, Energy, gender, SES, Smoke exposer, opium use, alcohol use, education, medication supplementation.
2. Adjusted for HBS, age, PA, SES, Smoke exposer.
3. Adjusted for HBS, age, BMI, PA, Energy, gender, SES, Smoke exposer, opium use, alcohol use, education, medication supplementation.
4. Adjusted for HBS, gender, opium use, alcohol use, medication supplementation.
5. Adjusted for HBS, age, PA, Energy, gender, SES, Smoke exposer, opium use, alcohol use, education, medication supplementation.