**S2 Table**. Standardized mean differences of baseline sociodemographic factors, life style behaviors, diabetes-related variables, drug-related variables, comorbidity and blood biochemical measurement among tertile groups of HbA1c-CV in patients with type 2 diabetes enrolled in the National Diabetes Care Management Program, Taiwan

| | HbA1c-CV (%) standardized mean difference | | | | | |
|---|---|---|---|---|---|---|
| | Unmatched population (N= 27,257) | | | Matched population (N= 16,530) | | |
| Variables | ≤8.4% vs. 8.4%-17.1% | ≤8.4% vs. >17.1% | 8.4%-17.1% vs. >17.1% | ≤8.4% vs. 8.4%-17.1% | ≤8.4% vs. >17.1% | 8.4%-17.1% vs. >17.1% |
| *Sociodemographic factors* | | | | | | |
| Gender | | | | | | |
| Female | 0.01 | 0.08 | 0.07 | -0.02 | 0.00 | 0.02 |
| Male | -0.01 | -0.08 | -0.07 | 0.02 | 0.00 | -0.02 |
| Age (years) | 0.01 | 0.12 | 0.11 | -0.04 | 0.03 | 0.07 |
| *Lifestyle behaviors* | | | | | | |
| Smoking | -0.01 | -0.10 | -0.09 | 0.03 | -0.02 | -0.05 |
| Alcohol drinking | -0.03 | -0.06 | -0.03 | 0.01 | -0.01 | -0.02 |
| *Diabetes-related variables* | | | | | | |
| Duration of diabetes (years) | 0.01 | 0.18 | 0.17 | -0.06 | 0.08 | -0.13 |
| Type of hypoglycemic drug use | | | | | | |
| No medication | 0.07 | 0.07 | 0.00 | 0.02 | -0.04 | -0.06 |
| One oral hypoglycemic drug | 0.15 | 0.18 | 0.03 | 0.03 | -0.06 | -0.09 |
| Two oral hypoglycemic drugs | 0.03 | 0.03 | 0.00 | 0.04 | 0.04 | 0.00 |
| Three oral hypoglycemic drugs | -0.07 | -0.07 | -0.01 | -0.02 | 0.02 | 0.04 |
| >3 oral hypoglycemic drugs | -0.04 | -0.08 | -0.05 | 0.01 | -0.01 | -0.02 |
| Insulin | -0.02 | 0.03 | 0.06 | -0.04 | -0.01 | 0.04 |
| Insulin+ oral hypoglycemic drug | -0.13 | -0.14 | -0.01 | -0.06 | 0.00 | 0.06 |
| *Drug-related variables* | | | | | | |
| Hypertension drug treatment | 0.06 | 0.16 | 0.10 | -0.03 | 0.02 | 0.04 |
| Glucocorticoids | 0.00 | -0.01 | -0.01 | 0.01 | 0.00 | -0.01 |
| *Comorbidity* | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Obesity | 0.00 | 0.05 | 0.05 | -0.02 | 0.00 | 0.02 |
| CAD | -0.01 | 0.05 | 0.06 | -0.03 | 0.02 | 0.05 |
| CHF | -0.03 | -0.02 | 0.01 | -0.03 | 0.02 | 0.05 |
| Cancer | 0.00 | -0.01 | -0.01 | 0.02 | 0.00 | -0.02 |
| Hyperlipidemia | 0.05 | 0.14 | 0.08 | -0.02 | 0.01 | 0.03 |
| Hypertension | 0.02 | 0.14 | 0.12 | -0.05 | 0.01 | 0.06 |
| Atrial fibrillation | 0.00 | 0.00 | 0.00 | -0.02 | 0.00 | 0.02 |
| Chronic hepatitis | -0.03 | 0.00 | 0.03 | -0.03 | 0.01 | 0.04 |
| Diabetic retinopathy | -0.02 | -0.01 | 0.02 | 0.00 | 0.03 | 0.02 |
| Hypoglycemia | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | -0.01 |
| Pneumonia | -0.01 | -0.02 | -0.01 | 0.00 | 0.02 | 0.01 |
| Other diseases of the upper respiratory tract | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| Acute respiratory infections | 0.01 | 0.03 | 0.02 | 0.01 | 0.02 | 0.01 |
| *Blood biochemical measurement* | | | | | | |
| Fasting plasma glucose | -0.19 | -0.38 | -0.20 | 0.00 | -0.02 | -0.03 |
| HbA1c | -0.24 | -0.52 | -0.28 | 0.02 | -0.02 | -0.04 |
| FPG-CV | -0.23 | -0.66 | -0.46 | 0.03 | -0.07 | -0.10 |

CAD: coronary artery disease; CHF: congestive heart failure; FPG-CV: coefficient of variation of fasting plasma glucose; HbA1c-CV: coefficient of variation of HbA1c.