**Table S1.** Odds ratio (and 95% confidence interval) for each unit increase of the association of brachial and central average real variabilities (ARV) of systolic blood pressure (SBP) and pulse pressure (PP), augmentation index (AIx) and pulse wave velocity (PWV) with different types of hypertension-mediated organ damage. Data of cardiac organ damage are adjusted for center, vascular damage, renal damage, age, sex, history of hypertension, history of dyslipidemia, history of cardiovascular disease and obesity (plus average SBP for AIx and BP for ARV). Data of vascular organ damage are adjusted for center, cardiac damage, renal damage, age, sex, history of hypertension, history of dyslipidemia, history of diabetes, history of cardiovascular disease and obesity (plus average SBP for AIx and BP for ARV). Data for renal damage are adjusted for center, cardiac damage, vascular damage, age, history of diabetes and cardiovascular disease (plus average SBP for AIx and BP for ARV). P-values for the odds ratios are also shown.

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| --- | --- | --- | --- |
|  | **Cardiac (n=482)** | **Vascular (n=368)** | **Renal (n=388)** |
| **Odds ratio(95% confidence interval)** | **p-value** | **Odds ratio(95% confidence interval)** | **p-value** | **Odds ratio(95% confidence interval)** | **p-value** |
| 24-hour Brachial ARV SBP (mmHg) | 1.042 (0.948, 1.146) | 0.391 | 0.944 (0.829, 1.075) | 0.383 | 1.104 (0.950, 1.282) | 0.195 |
| Day-time Brachial ARV SBP (mmHg) | 1.036 (0.957, 1.122) | 0.378 | 1.005 (0.903, 1.119) | 0.924 | 1.099 (0.973, 1.241) | 0.129 |
| Night-time Brachial ARV SBP (mmHg) | 1.006 (0.941, 1.075) | 0.857 | 0.968 (0.889, 1.053) | 0.448 | 1.029 (0.932, 1.135) | 0.573 |
| 24-hour Central ARV SBP (mmHg) | 1.080 (0.978, 1.194) | 0.130 | 0.940 (0.814, 1.085) | 0.398 | 1.064 (0.902, 1.256) | 0.462 |
| Day-time Central ARV SBP (mmHg) | 1.089 (0.998, 1.188) | 0.056 | 0.970 (0.858, 1.096) | 0.625 | 1.087 (0.948, 1.247) | 0.232 |
| Night-time Central ARV SBP (mmHg) | 0.998 (0.935, 1.065) | 0.958 | 0.988 (0.910, 1.072) | 0.765 | 1.011 (0.918, 1.115) | 0.820 |
| 24-hour Brachial ARV PP (mmHg) | 0.969 (0.879, 1.068) | 0.523 | 0.885 (0.777, 1.008) | 0.065 | 1.130 (0.977, 1.306) | 0.099 |
| Day-time Brachial ARV PP (mmHg) | 0.972 (0.898, 1.053) | 0.489 | 0.930 (0.836, 1.035) | 0.186 | 1.114 (0.991, 1.252) | 0.069 |
| Night-time Brachial ARV PP (mmHg) | 0.984 (0.920, 1.052) | 0.632 | 0.930 (0.854, 1.014) | 0.100 | 1.027 (0.932, 1.132) | 0.590 |
| 24-hour Central ARV PP (mmHg) | 0.982 (0.862, 1.119) | 0.782 | 0.862 (0.728, 1.021) | 0.086 | 1.164 (0.965, 1.403) | 0.113 |
| Day-time Central ARV PP (mmHg) | 0.974 (0.873, 1.086) | 0.631 | 0.903 (0.784, 1.039) | 0.153 | 1.173 (1.004, 1.370) | 0.044 |
| Night-time Central ARV PP (mmHg) | 0.999 (0.925, 1.080) | 0.988 | 0.921 (0.831, 1.021) | 0.117 | 1.022 (0.907, 1.152) | 0.725 |
| 24-hour AIx (%) | 0.999 (0.985, 1.014) | 0.915 | 0.983 (0.964, 1.002) | 0.083 | 1.013 (0.997, 1.029) | 0.120 |
| Day-time AIx (%) | 1.000 (1.014, 0.986) | 0.975 | 0.981 (0.963, 1.000) | 0.049 | 1.011 (0.995, 1.028) | 0.182 |
| Nigh-time AIx (%) | 1.004 (0.998, 1.010) | 0.215 | 0.997 (0.990, 1.005) | 0.485 | 0.997 (0.990, 1.004) | 0.421 |
| 24-hour PWV (m/s) | 1.073 (0.926, 1.243) | 0.349 | 1.005 (0.813, 1.242) | 0.964 | 1.168 (0.949, 1.437) | 0.143 |
| Day-time PWV (m/s) | 1.060 (0.919, 1.221) | 0.424 | 1.022 (0.829, 1.259) | 0.841 | 1.147 (0.941, 1.399) | 0.175 |
| Night-time PWV (m/s) | 1.098 (0.947, 1.273) | 0.216 | 0.995 (0.812, 1.219) | 0.959 | 1.192 (0.969, 1.466) | 0.096 |