**Table S4.** 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 (HMOD). Data of cardiac organ damage are adjusted for center, vascular damage, renal damage, age, sex, history of cardiovascular disease and treatment of dyslipidemia (plus average SBP for AIx and BP for ARV). Data of vascular organ damage are adjusted for center, cardiac damage, renal damage, age and history of diabetes (plus average SBP for AIx and BP for ARV). Data for renal damage adjusted for center, cardiac damage, vascular damage, age and history of cardiovascular disease (plus average SBP for AIx and BP for ARV); any damage adjusted by age (plus average 24-hour SBP for AIx and ARV). Data are shown for the study population with all estimates of HMOD. P-values for the odds ratios are also shown.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Cardiac (n=201)** | | **Vascular (n=201)** | | **Renal (n=201)** | | **HMOD (n=201)** | |
| **Odds ratio  (95% confidence interval)** | **p-value** | **Odds ratio (95% confidence interval)** | **p-value** | **Odds ratio (95% confidence interval)** | **p-value** | **Odds ratio (95% confidence interval)** | **p-value** |
| Clinic SBP (mmHg) | 1.020 (1.001, 1.041) | 0.043 | 1.013 (0.993, 1.032) | 0.208 | 0.988 (0.964, 1.013) | 0.356 | 1.017 (0.990, 1.045) | 0.227 |
| 24-hour Brachial SBP (mmHg) | 1.038 (1.007, 1.069) | 0.014 | 1.022 (0.992, 1.053) | 0.159 | 1.021 (0.983, 1.060) | 0.284 | 1.022 (0.984, 1.061) | 0.260 |
| Day-time Brachial SBP (mmHg) | 1.026 (0.998, 1.055) | 0.068 | 1.020 (0.992, 1.049) | 0.164 | 1.018 (0.982, 1.056) | 0.326 | 1.015 (0.980, 1.052) | 0.391 |
| Night-time Brachial SBP (mmHg) | 1.048 (1.019, 1.077) | 0.001 | 1.014 (0.987, 1.042) | 0.303 | 1.014 (0.981, 1.047) | 0.412 | 1.019 (0.984, 1.055) | 0.288 |
| 24-hour Central SBP (mmHg) | 1.042 (1.008, 1.077) | 0.016 | 1.016 (0.983, 1.050) | 0.350 | 1.020 (0.978, 1.064) | 0.348 | 1.016 (0.975, 1.059) | 0.441 |
| Day-time Central SBP (mmHg) | 1.027 (0.995, 1.059) | 0.095 | 1.017 (0.986, 1.049) | 0.297 | 1.018 (0.978, 1.061) | 0.383 | 1.011 (0.973, 1.051) | 0.574 |
| Night Central SBP (mmHg) | 1.057 (1.025, 1.091) | 0.0001 | 1.007 (0.978, 1.037) | 0.634 | 1.014 (0.979, 1.050) | 0.450 | 1.013 (0.977, 1.051) | 0.481 |
| Clinic PP (mmHg) | 1.045 (1.018, 1.073) | 0.001 | 1.001 (0.977, 1.025) | 0.938 | 0.985 (0.955, 1.017) | 0.362 | 1.020 (0.988, 1.054) | 0.224 |
| 24-hour Brachial PP (mmHg) | 1.064 (1.025, 1.104) | 0.001 | 1.029 (0.989, 1.070) | 0.155 | 1.030 (0.981, 1.081) | 0.241 | 1.041 (0.990, 1.094) | 0.115 |
| Day-time Brachial PP (mmHg) | 1.060 (1.022, 1.099) | 0.002 | 1.028 (0.989, 1.068) | 0.161 | 1.031 (0.982, 1.083) | 0.213 | 1.038 (0.989, 1.089) | 0.132 |
| Night-time Brachial PP (mmHg) | 1.053 (1.018, 1.088) | 0.002 | 1.018 (0.983, 1.054) | 0.315 | 1.020 (0.979, 1.082) | 0.346 | 1.031 (0.983, 1.081) | 0.213 |
| 24-hour Central PP (mmHg) | 1.095 (1.042, 1.149) | 0.0001 | 1.022 (0.973, 1.073) | 0.393 | 1.033 (0.973, 1.097) | 0.290 | 1.042 (0.977, 1.110) | 0.210 |
| Day-time Central PP (mmHg) | 1.088 (1.037, 1.141) | 0.001 | 1.025 (0.976, 1.076) | 0.323 | 1.032 (0.972, 1.096) | 0.302 | 1.042 (0.979, 1.108) | 0.198 |
| Night-time Central PP (mmHg) | 1.084 (1.037, 1.132) | 0.0001 | 1.007 (0.965, 1.051) | 0.748 | 1.024 (0.976, 1.075) | 0.334 | 1.027 (0.969, 1.088) | 0.370 |
| 24-hour Brachial ARV SBP (mmHg) | 1.046 (0.884, 1.236) | 0.602 | 1.066 (0.895, 1.269) | 0.476 | 0.918 (0.705, 1.196) | 0.526 | 1.021 (0.820, 1.270) | 0.854 |
| Day-time Brachial ARV SBP (mmHg) | 1.034 (0.897, 1.191) | 0.647 | 1.144 (0.992, 1.321) | 0.065 | 0.987 (0.799, 1.218) | 0.901 | 1.061 (0.886, 1.271) | 0.519 |
| Night-time Brachial ARV SBP (mmHg) | 1.025 (0.922, 1.139) | 0.647 | 0.970 (0.869, 1.083) | 0.592 | 0.971 (0.842, 1.120) | 0.686 | 1.007 (0.880, 1.151) | 0.923 |
| 24-hour Central ARV SBP (mmHg) | 1.089 (0.911, 1.302) | 0.348 | 1.008 (0.837, 1.215) | 0.929 | 0.805 (0.592, 1.095) | 0.167 | 1.014 (0.806, 1.274) | 0.908 |
| Day-time Central ARV SBP (mmHg) | 1.096 (0.939, 1.279) | 0.243 | 1.071 (0.912, 1.258) | 0.402 | 0.932 (0.732, 1.188) | 0.572 | 1.054 (0.866, 1.283) | 0.600 |
| Night-time Central ARV SBP (mmHg) | 0.996 (0.903, 1.099) | 0.935 | 0.986 (0.893, 1.089) | 0.708 | 0.936 (0.813, 1.078) | 0.358 | 1.140 (0.854, 1.011) | 0.897 |
| 24-hour Brachial ARV PP (mmHg) | 0.894 (0.755, 1.057) | 0.189 | 0.947 (0.803, 1.118) | 0.522 | 0.950 (0.755, 1.196) | 0.665 | 0.796 (0.643, 0.984) | 0.035 |
| Day-time Brachial ARV PP (mmHg) | 0.910 (0.796, 1.040) | 0.167 | 0.997 (0.873, 1.137) | 0.959 | 0.981 (0.810, 1.189) | 0.847 | 0.871 (0.740, 1.024) | 0.094 |
| Night-time Brachial ARV PP (mmHg) | 0.968 (0.872, 1.074) | 0.536 | 0.942 (0.844, 1.051) | 0.285 | 0.943 (0.823, 1.080) | 0.396 | 0.900 (0.794, 1.019) | 0.095 |
| 24-hour Central ARV PP (mmHg) | 0.898 (0.726, 1.110) | 0.321 | 0.912 (0.740, 1.125) | 0.390 | 0.945 (0.709, 1.260) | 0.701 | 0.814 (0.622, 1.065) | 0.133 |
| Day-time Central ARV PP (mmHg) | 0.913 (0.770, 1.082) | 0.294 | 0.962 (0.814, 1.136) | 0.646 | 1.030 (0.814, 1.304) | 0.807 | 0.881 (0.718, 1.082) | 0.226 |
| Night-time Central ARV PP (mmHg) | 0.964 (0.850, 1.092) | 0.563 | 0.915 (0.800, 1.047) | 0.196 | 0.806 (0.716, 1.032) | 0.105 | 0.893 (0.762, 1.047) | 0.163 |
| 24-hour AIx (%) | 1.006 (0.982, 1.031) | 0.608 | 0.982 (0.962, 1.003) | 0.089 | 1.023 (0.996, 1.051) | 0.091 | 0.993 (0.968, 1.019) | 0.603 |
| Day-time AIx (%) | 1.005 (0.982, 1.028) | 0.679 | 0.978 (0.958, 0.999) | 0.041 | 1.021 (0.994, 1.049) | 0.130 | 0.987 (0.962, 1.012) | 0.309 |
| Nigh-time AIx (%) | 1.011 (1.000, 1.021) | 0.052 | 0.997 (0.989, 1.005) | 0.520 | 0.999 (0.988, 1.009) | 0.784 | 1.000 (0.988, 1.011) | 0.972 |
| 24-hour PWV (m/s) | 0.961 (0.757, 1.220) | 0.746 | 1.095 (0.829, 1.446) | 0.523 | 0.977 (0.659, 1.450) | 0.910 | 0.907 (0.673, 1.222) | 0.520 |
| Day-time PWV (m/s) | 0.950 (0.757, 1.192) | 0.658 | 1.053 (0.812, 1.365) | 0.696 | 1.004 (0.689, 1.461) | 0.985 | 0.882 (0.665, 1.170) | 0.384 |
| Night-time PWV (m/s) | 0.993 (0.780, 1.263) | 0.952 | 1.164 (0.881, 1.539) | 0.285 | 0.935 (0.640, 1.364) | 0.726 | 0.967 (0.705, 1.325) | 0.833 |