**Table S3.** Clinic systolic blood pressure (SBP) and pulse pressure (PP), 24-hour, day-time and night-time averages of brachial and central SBP, and PP, average real variability (ARV) of brachial and central SBP and PP, augmentation index (AIx) and pulse wave velocity (PWV) in subjects with all estimates of hypertension-mediated organ damage (HMOD). Data are shown as average values and 95% confidence intervals. 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 of renal damage are adjusted for center, cardiac damage, vascular damage, age and history of cardiovascular disease (plus average SBP for AIx and BP for ARV). Data of HMOD are adjusted for age (plus average 24-hour SBP for AIx and ARV). The p-values refer to the level of statistical significance of the comparison between each subgroup.

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| **Clinic** | **Cardiac- (n=86)** | **Cardiac+ (n=115)** | **p-value** | **Vascular- (n=79)** | **Vascular+ (n=122)** | **p-value** | **Renal- (n=173)** | **Renal+ (n=28)** | **p-value** | **HMOD-**  **(n=29)** | **HMOD+ (n=172)** | **p-value** |
| SBP (mmHg) | 137.7 (129.7, 145.7) | 144.1 (136.7, 151.4) | 0.043 | 139.6 (131.8, 147.4) | 143.2 (135.7, 150.7) | 0.251 | 143.1 (136.1, 150.1) | 139.7 (130.5,148.8) | 0.243 | 139.6 (129.9, 149.3) | 143.7 (136.9, 150.4) | 0.308 |
| PP (mmHg) | 45.7 (39.3, 52.3) | 54.7 (48.8, 60.7) | 0.0001 | 50.4 (44.1, 56.7) | 49.8 (43.7, 55.9) | 0.812 | 51.8 (46.2, 57.5) | 49.1 (41.7, 56.5) | 0.426 | 49.7 (41.7, 57.6) | 52.4 (46.9, 57.9) | 0.408 |
| **Day-time** |  |  |  |  |  |  |  |  |  |  |  |  |
| Brachial SBP (mmHg) | 131.2 (125.9 (136.6) | 135.2 (1303., 140.2) | 0.060 | 131.9 (126.7, 137.2) | 134.2 (129.1, 139.3) | 0.302 | 131.8 (127.0, 136.6) | 134.7 (128.5, 140.9) | 0.315 | 131.6 (125.0, 138.1) | 133.4 (128.8, 137.9) | 0.504 |
| Brachial PP (mmHg) | 46.2 (41.9, 50.6) | 51.8 (47.7, 55.8) | 0.001 | 48.1 (43.9, 52.4) | 49.5 (45.5, 53.6) | 0.411 | 47.8 (43.9, 51.6) | 50.4 (45.4, 55.4) | 0.251 | 47.3 (42.0, 52.6) | 49.4 (45.7, 53.1) | 0.340 |
| Central SBP (mmHg) | 121.4 (116.6, 126.3) | 124.8 (120.3, 129.2) | 0.080 | 122.5 (117.8, 127.2) | 123.9 (119.4, 128.6) | 0.434 | 122.2 (117.9, 126.5) | 124.5 (118.9, 130.1) | 0.364 | 122.2 (116.4, 128.0) | 123.5 (119.4, 127.6) | 0.603 |
| Central PP (mmHg) | 34.9 (31.6, 38.4) | 39.8 (36.7, 42.9) | 0.0001 | 37.2 (33.9, 40.5) | 37.9 (34.7, 41.1) | 0.629 | 36.8 (33.8, 39.8) | 38.6 (34.7, 42.5) | 0.319 | 36.8 (32.6, 40.9) | 38.1 (35.2, 41.1) | 0.426 |
| Brachial ARV SBP (mmHg) | 10.7 (9.7, 11.8) | 11.0 (10.0, 12.0) | 0.553 | 10.5 (9.4, 11.5) | 11.2 (10.2, 12.3) | 0.075 | 10.9 (9.9, 11.9) | 10.9 (9.8, 12.2) | 0.956 | 10.7 (9.4, 11.9) | 11.0 (10.1, 11.9) | 0.519 |
| Brachial ARV PP (mmHg) | 10.2 (9.0, 11.3) | 9.5 (8.4, 10.6) | 0.152 | 9.8 (8.7, 10.9) | 9.8 (8.8, 10.9) | 0.963 | 9.9 (8.9, 10.9) | 9.9 (8.5, 11.2) | 0.902 | 10.6 (9.2, 11.9) | 9.7 (8.7, 10.6) | 0.122 |
| Central ARV SBP (mmHg) | 9.7 (8.8, 10.7) | 10.2 (9.3, 11.1) | 0.210 | 9.7 (8.8, 10.7) | 10.1 (9.2, 10.9) | 0.350 | 10.0 (9.2, 10.9) | 9.9 (8.8, 11.0) | 0.797 | 9.8 (8.7, 10.9) | 10.1 (9.3, 10.9) | 0.637 |
| Central ARV PP (mmHg) | 8.3 (7.4, 9.2) | 7.9 (6.9, 8.7) | 0.258 | 8.0 (7.2, 8.9) | 7.9 (7.0, 8.8) | 0.686 | 7.9 (7.2, 8.8) | 8.0 (7.0, 9.1) | 0.831 | 8.4 (7.3, 9.5) | 7.9 (7.1, 8.6) | 0.252 |
| PWV (m/s) | 11.1 (10.5, 11.7) | 10.9 (10.4, 11.6) | 0.644 | 10.9 (10.4, 11.6) | 11.3 (10.7, 11.9) | 0.174 | 11.1 (10.5, 11.6) | 11.2 (10.5, 11.9) | 0.661 | 11.2 (10.4, 12.0) | 11.1 (10.6, 11.7) | 0.762 |
| AIx (%) | 24.5 (17.7, 31.2) | 25.9 (19.6, 32.2) | 0.597 | 29.6 (22.3, 36.9) | 24.8 (17.7, 31.9) | 0.104 | 24.0 (17.4, 30.7) | 30.0 (21.4, 38.7) | 0.136 | 28.3 (19.2, 37.4) | 25.5 (19.0, 31.8) | 0.448 |
| **Night-time** |  |  |  |  |  |  |  |  |  |  |  |  |
| Brachial SBP (mmHg) | 117.1 (111.2, 123.0) | 125.0 (119.6, 130.4) | 0.001 | 119.8 (114.0, 125.5) | 121.0 (115.4, 126.6) | 0.600 | 119.8 (114.5, 125.0) | 122.2 (115.4, 129.1) | 0.442 | 119.5 (112.2, 126.8) | 121.6 (116.5, 126.7) | 0.494 |
| Brachial PP (mmHg) | 44.6 (39.7, 49.6) | 50.5 (45.9, 55.1) | 0.003 | 46.7 (42.0, 51.5) | 47.3 (42.8, 51.9) | 0.757 | 46.4 (42.1, 50.7) | 48.8 (43.2, 54.4) | 0.355 | 46.5 (40.5, 52.5) | 47.9 (43.7, 52.1) | 0.576 |
| Central SBP (mmHg) | 109.3 (103.9, 114.7) | 117.2 (112.2, 122.2) | 0.0001 | 112.7 (107.4, 117.9) | 112.9 (107.8, 118.0) | 0.925 | 112.2 (107.5, 117.0) | 114.3 (108.1, 120.5) | 0.477 | 112.5 (105.8, 119.2) | 113.8 (109.2, 118.5) | 0.618 |
| Central PP (mmHg) | 35.4 (31.4, 39.4) | 41.2 (37.6, 44.9) | 0.0001 | 38.2 (34.4, 42.0) | 37.8 (34.1, 41.5) | 0.793 | 37.4 (33.9, 40.9) | 39.5 (34.9, 43.9) | 0.323 | 38.0 (33.1, 42.9) | 38.7 (35.3, 42.1) | 0.731 |
| Brachial ARV SBP (mmHg) | 10.4 (8.9, 11.8) | 10.6 (9.3, 11.9) | 0.666 | 10.7 (9.3, 12.0) | 10.7 (9.3, 11.9) | 0.980 | 10.5 (9.3, 11.8) | 10.4 (8.8, 12.1) | 0.900 | 10.5 (8.8, 12.2) | 10.6 (9.4, 11.8) | 0.863 |
| Brachial ARV PP (mmHg) | 8.5 (7.1, 9.9) | 8.3 (6.9, 9.6) | 0.637 | 8.6 (7.2, 9.9) | 8.1 (6.8, 9.5) | 0.449 | 8.6 (7.4, 9.9) | 7.9 (6.4, 9.6) | 0.407 | 9.4 (7.7, 11.1) | 8.3 (7.1, 9.4) | 0.115 |
| Central ARV SBP (mmHg) | 10.1 (8.6, 11.6) | 10.1 (8.7, 11.5) | 0.953 | 10.2 (8.7, 11.7) | 10.4 (8.9, 11.8) | 0.774 | 10.4 (9.0, 11.7) | 9.8 (8.1, 11.6) | 0.501 | 10.1 (8.2, 11.9) | 10.3 (9.0, 11.6) | 0.760 |
| Central ARV PP (mmHg) | 7.1 (5.9, 8.3) | 6.9 (5.8, 8.0) | 0.680 | 7.1 (5.9, 8.3) | 6.7 (5.6, 7.9) | 0.434 | 7.4 (6.4, 8.5) | 6.4 (5.1, 7.8) | 0.132 | 7.7 (6.3, 9.1) | 7.0 (6.0, 8.0) | 0.245 |
| PWV (m/s) | 10.6 (10.0, 11.2) | 10.6 (10.1, 11.2) | 0.998 | 10.5 (9.9, 11.1) | 10.9 (10.3, 11.5) | 0.076 | 10.6 (10.1, 11.2) | 10.7 (9.9, 11.4) | 0.903 | 10.6 (9.9, 11.3) | 10.7 (10.2, 11.2) | 0.732 |
| AIx (%) | 30.5 (14.1, 46.9) | 42.2 (26.7, 57.6) | 0.080 | 40.9 (24.7, 57.2) | 37.2 (21.4, 52.9) | 0.562 | 39.5 (24.8, 54.1) | 36.9 (17.9, 56.0) | 0.775 | 38.8 (18.7, 58.9) | 40.6 (26.5, 54.8) | 0.827 |