

Supplementary

Table S1.: Association between surrogates of arterial stiffness and MVPA adjusted for age, sex, BMI z-score, peripheral systolic blood pressure and heart rate, separated for patients treated with antihypertensive drugs and untreated patients.

| | Adjusted R² | ß | 95%CI | p-value |
|------------------|-------------------------------|----------|-----------------|----------------|
| UNTREATED | | | | |
| PWV (m/s) | 0.735 | -0.180 | [-0.001; 0.001] | 0.611 |
| cSBP (mmHg) | 0.747 | 0.002 | [-0.027; 0.028] | 0.959 |
| TREATED | | | | |
| PWV (m/s) | 0.828 | -0.060 | [-0.003; 0.001] | 0.427 |
| cSBP (mmHg) | 0.748 | -0.128 | [-0.160; 0.027] | 0.158 |

cSBP=central systolic blood pressure, MVPA= moderate to vigorous physical activity, PWV = pulse wave velocity

Table S2.: Physical activity level based on MVPA of different CHD severities after adjusting for age, sex and BMI z-score.

| CHD Severity | Estimated marginal means MVPA (min/day) | Standard error | 95%-CI |
|---------------------|--|-----------------------|---------------|
| Complex CHD | 84.5 | 2.1 | [80.4 – 88.7] |
| Moderate CHD | 80.7 | 2.5 | [75.8 – 85.6] |
| Simple CHD | 86.7 | 3.2 | [80.4 – 93.0] |

Corrected for age, sex and BMI z-score. CHD = congenital heart disease, CI = confidence interval, MVPA= moderate to vigorous physical activity