

Supplementary Table 1 Baseline Characteristics

	Males (N)	Males (Mean SD)	Females (N)	Females (Mean SD)	P value
Age (years)	283	35.2 ± 8.1	275	37.2 ± 8.4	0.01*
Height (cm)	275	181.0 ± 7.8	271	166.6 ± 6.5	<0.001*
Weight (kg)	275	90.5 ± 15.5	273	74.3 ± 16.4	<0.001*
BSA (m ²)	274	2.1 ± 0.2	271	1.8 ± 0.2	<0.001*
BMI (kg/m ²)	274	27.7 ± 4.5	271	26.8 ± 5.7	0.04*
Duration of hypertension (years)	278	5.8 ± 5.6	272	5.8 ± 5.6	0.87
Systolic BP measured at home (mm Hg)	192	126.6 ± 9.3	180	121.3 ± 8.9	<0.001*
Diastolic BP measured at home (mm Hg)	192	82.2 ± 8.1	180	83.0 ± 7.4	0.30
MAP measured at home (mm Hg)	192	97.0 ± 7.7	180	95.8 ± 7.5	0.13
Systolic BP measured at office (mm Hg)	280	127.2 ± 14.3	274	122.9 ± 14.5	<0.001*
Diastolic BP measured at office (mm Hg)	280	80.0 ± 11.4	274	78.6 ± 11.8	0.18
MAP measured at office (mm Hg)	280	95.7 ± 11.5	274	93.4 ± 11.9	0.02*
TKV (ml)	270	1417.1 ± 772.6	270	1011.8 ± 618.3	<0.001*
lnTKV	270	7.1 ± 0.5	270	6.8 ± 0.5	<0.001*
LVM (gm)	271	149.2 ± 27.7	267	102.8 ± 20.6	<0.001*
LVMi (gm/m ²)	262	70.9 ± 11.7	264	56.5 ± 10.0	<0.001*
LVM/(Height ^{2.7}) (gm/m ^{2.7})	263	30.2 ± 5.5	264	26.0 ± 5.3	<0.001*
LVM/(Height ²) (gm/m ²)	263	45.6 ± 7.9	264	37.1 ± 7.3	<0.001*
ppLVmass _H	263	1.0 ± 0.2	264	0.9 ± 0.2	0.11
ppLVmass _{HW}	262	0.9 ± 0.1	264	0.8 ± 0.2	0.15
Serum creatinine (mg/dL)	282	1.1 ± 0.2	272	0.8 ± 0.1	<0.001*
eGFR (mL/min/1.73m ²) (MDRD)	282	86.3 ± 18.9	275	86.5 ± 17.5	0.91
eGFR (mL/min/1.73m ²) (CKD-EPI)	282	90.4 ± 17.8	275	92.7 ± 17.1	0.12
S. sodium (mEq/L)	283	139.3 ± 2.2	275	138.6 ± 7.8	0.14
S. potassium (mEq/L)	283	4.2 ± 0.4	275	4.0 ± 0.4	<0.001*
Urine volume (ml)	272	2639.3 ± 1201.2	265	2457.6 ± 1150.2	0.07
Urine sodium (mEq/24 hrs)	254	194.0 ± 75.3	260	161.0 ± 78.5	<0.001*
Urine potassium (mEq/24 hrs)	251	62.9 ± 26.4	257	53.5 ± 25.0	<0.001*
Urine aldosterone (µg/24 hrs)	217	10.0 ± 5.9	223	15.8 ± 12.0	<0.001*
Urine albumin (mg/24 hrs)	254	40.8 ± 73.2	260	42.3 ± 183.6	0.90

Supplementary Table 2 Correlation of LVM (nonindexed) with baseline characteristics

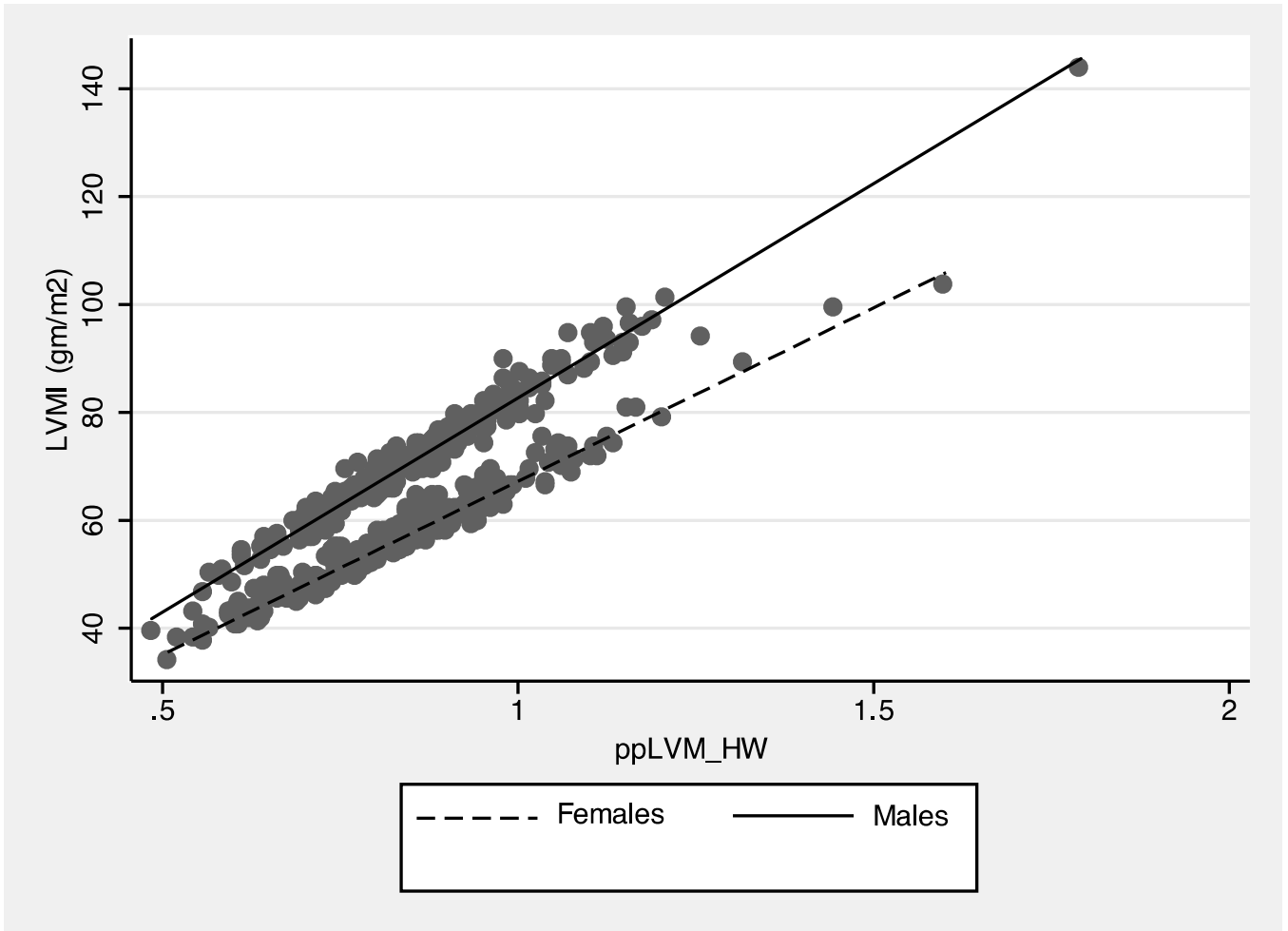
	Men			Women			Both		
	N	R	p	N	r	p	N	r	p
Age (years)	271	-0.12	0.05	267	-0.20	0.001*	538	-0.19	<0.001*
Height (cm)	263	0.37	<0.001*	264	0.29	<0.001*	527	0.66	<0.001*
Weight (kg)	263	0.42	<0.001*	265	0.44	<0.001*	528	0.58	<0.001*
BSA (m ²)	262	0.47	<0.001*	264	0.47	<0.001*	526	0.69	<0.001*
BMI (kg/m ²)	262	0.23	<0.001*	264	0.36	<0.001*	526	0.26	<0.001*
Duration of hypertension (years)	267	-0.03	0.62	264	0.13	0.03*	531	0.04	0.41
Systolic BP measured at office (mm Hg)	268	0.13	0.03*	266	0.30	<0.001*	534	0.25	<0.001*
Diastolic BP measured at office (mm Hg)	268	-0.01	0.82	266	0.17	0.006*	534	0.10	0.02*
MAP measured at office (mm Hg)	268	0.05	0.46	266	0.23	<0.001*	534	0.17	<0.001*
TKV (ml)	267	0.25	<0.001*	264	0.11	0.09	531	0.33	<0.001*
lnTKV	267	0.25	<0.001*	264	0.17	0.005*	531	0.36	<0.001*
Serum creatinine (mg/dL)	271	0.19	0.002*	264	0.09	0.16	535	0.52	<0.001*
eGFR (mL/min/1.73m ²) (MDRD)	271	-0.11	0.07	267	0.003	0.97	538	-0.05	0.26
eGFR (mL/min/1.73m ²) (CKD-EPI)	271	-0.11	0.08	267	0.01	0.86	538	-0.09	0.05
S. sodium (mEq/L)	271	0.07	0.26	267	-0.06	0.36	538	0.03	0.49
S. potassium (mEq/L)	271	-0.001	0.98	267	0.01	0.83	538	0.13	0.003*
Urine volume (ml)	262	-0.02	0.70	257	0.13	0.05	519	0.09	0.05
Urine sodium (mEq/24 hrs)	244	0.11	0.09	253	0.12	0.06	497	0.24	<0.001*
Urine potassium (mEq/24 hrs)	242	0.10	0.12	250	0.15	0.02*	492	0.24	<0.001*
Urine aldosterone (µg/24 hrs)	209	0.004	0.96	219	0.28	<0.001*	428	-0.08	0.11
Urine albumin (mg/24 hrs)	244	0.19	0.003*	253	0.09	0.14	497	0.07	0.10

Supplementary Table 3 Predictors of unindexed LV Mass in Study A

	Full Model			Final Model		
	Difference	95% CI	Beta	Difference	95% CI	Beta
Age (years)	-0.56 ^{***}	[-0.79, -0.31]	-0.13 ^{***}	-0.44 ^{***}	[-0.67, -0.22]	-0.11 ^{***}
BSA (m ²)	66.80 ^{***}	[51.46, 82.14]	0.47 ^{***}	70.54 ^{***}	[56.59, 84.48]	0.49 ^{***}
BMI (kg/m ²)	-0.53 ^{***}	[-1.08, 0.01]	-0.08	-0.71 ^{**}	[-1.21, -0.20]	-0.11 ^{**}
Systolic BP measured at office (mm Hg)	0.54 ^{***}	[0.34, 0.73]	0.23 ^{***}	0.55 ^{***}	[0.36, 0.73]	0.24 ^{***}
Diastolic BP measured at office (mm Hg)	-0.45 ^{***}	[-0.69, -0.21]	-0.16 ^{***}	-0.47 ^{***}	[-0.70, -0.24]	-0.16 ^{***}
TKV (ml)	0.003	[-0.0002, 0.006]	0.06			
Serum creatinine (mg/dL)	16.15 [*]	[2.86, 29.44]	0.10 [*]	19.97 ^{**}	[7.91, 32.03]	0.12 ^{**}
S. potassium (mEq/L)	2.07	[-2.27, 6.41]	0.03			
Urine volume (ml/24 hrs)	0.0008	[-0.001, 0.003]	0.03			
Urine sodium (mEq/24 hrs)	-0.01	[-0.04, 0.02]	-0.03			
Urine potassium (mEq/24 hrs)	0.05	[-0.04, 0.14]	0.04			
Female	-19.92 ^{***}	[-26.24, -13.61]	-0.29 ^{***}	-19.55 ^{***}	[-25.32, -13.78]	-0.29 ^{***}
Constant	-21.85	[-57.79, 14.08]		-17.64	[-45.87, 10.60]	
Observations	471		471	522		
R ²	0.65			0.63		

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Supplementary Figure 1 Association of $ppLVM_{HW}$ and LVMI



Supplementary Figure 2 Relationship of serum creatinine to LVMI by gender

