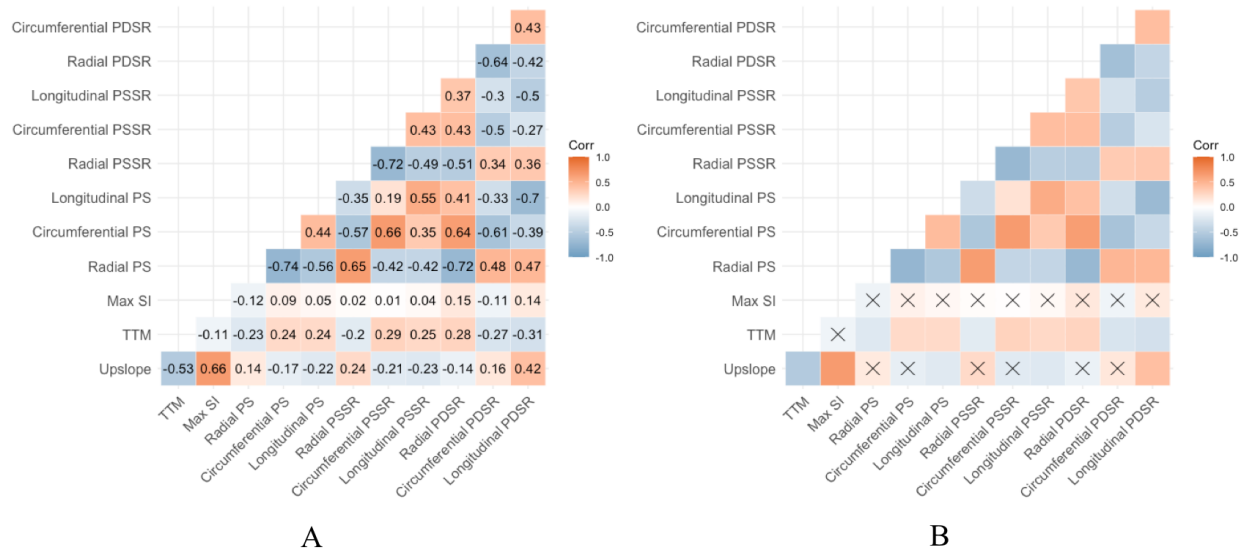


Additive effects of obesity on myocardial microcirculation and left ventricular deformation in essential hypertension: a contrast-enhanced cardiac magnetic resonance imaging study



Supplementary Figure 1. Correlations between myocardial perfusion parameters and LV strains in hypertensive patients. Colors represents the correlation coefficients and its intensity represents the coefficient's value (A) and × indicates correlation is non-significant (B). Abbreviations are as in table 2.

Supplementary Table 1. Univariable linear regression analysis in hypertensive patients

	Upslope		TTM		Max SI		Longitudinal PS		Longitudinal PSSR		Longitudinal PDSR	
	β (95% CI)	P	β (95% CI)	P	β (95% CI)	P	β (95% CI)	P	β (95% CI)	P	β (95% CI)	P
Age	-0.004 (-0.015, 0.008)	0.536	0.105 (-0.066, 0.276)	0.226	0.065 (-0.035, 0.165)	0.201	-0.006 (-0.046, 0.034)	0.765	0.001 (-0.001, 0.004)	0.328	0.004 (-0.002, 0.010)	0.152
Sex	-0.176 (-0.531, 0.180)	0.329	4.673 (-0.499, 9.85)	0.076*	0.205 (-2.869, 3.279)	0.895	2.214 (1.086, 3.341)	<0.001*	0.097 (0.018, 0.175)	0.016*	-0.150 (-0.237, -0.063)	0.001*
BMI	-0.136 (-0.189, -0.084)	<0.001*	0.392 (-0.471, 1.254)	0.370	-0.903 (-1.376, -0.430)	<0.001*	0.372 (0.187, 0.557)	<0.001*	0.019 (0.007, 0.032)	0.003*	-0.030 (-0.044, -0.017)	<0.001*
Heart rate	0.002 (-0.009, 0.014)	0.670	-0.141 (-0.306, 0.024)	0.092*	-0.086 (-0.182, 0.011)	0.080	0.011 (-0.028, 0.049)	0.576	-0.002 (-0.004, 0.001)	0.199	-0.001 (-0.004, 0.002)	0.359
Office SBP	-0.001 (-0.010, 0.007)	0.796	-0.047 (-0.172, 0.078)	0.454	-0.008 (-0.081, 0.065)	0.830	0.033 (0.005, 0.061)	0.022*	-0.000 (-0.002, 0.002)	0.979	-0.002 (-0.004, 0.000)	0.085*
Office DBP	-0.003 (-0.014, 0.008)	0.552	-0.095 (-0.252, 0.062)	0.235	-0.059 (-0.150, 0.033)	0.209	0.026 (-0.010, 0.062)	0.152	-0.001 (-0.003, 0.002)	0.655	-0.002 (-0.005, 0.001)	0.178

TG	-0.056 (-0.165,	0.305	0.859 (-0.770,	0.298	-0.264 (-1.210,	0.330 (-	0.018 (-	-0.023 (-0.051,				
	0.052)	2.49)	0.682)	0.581	0.034, 0.693)	0.075*	0.007, 0.043)	0.153	0.005)	0.111		
HDL	0.017 (-0.146,	0.838	0.440 (-2.005,	0.722	0.230 (-1.185,	-0.090 (-	-0.06 (-0.092,	0.024 (-0.018,				
	0.180)	2.885)	1.644)	0.748	0.642, 0.462)	0.747	-0.021)	0.002*	0.066)	0.259		
eGFR	0.000 (-0.008,	0.973	0.067 (-0.062,	0.305	-0.019 (-0.079,	0.000 (-	0.000 (-	0.000 (-0.002,				
	0.008)	0.196)	0.041)	0.529	0.029, 0.030)	0.960	0.002, 0.002)	0.808	0.002)	0.854		
CCB	-0.139 (-0.496,	0.442	0.168 (-5.100,	0.950	-1.733 (-4.795,	0.946 (-	-0.003 (-	-0.050 (-0.142,				
	0.218)	5.437)	1.329)	0.264	0.253, 2.145)	0.120	0.083, 0.078)	0.945	0.041)	0.277		
LVEF						-0.175 (-						
	-0.010 (-0.037,	0.488	0.025 (-0.380,	0.903	-0.240 (-0.471,	0.261, -	-0.007 (-	0.009 (0.002,				
	0.018)	0.429)	-0.008)	0.043*	0.089)	<0.001*	0.013, 0.001)	0.023*	0.016)	0.013*		
LVEDVI	0.003 (-0.006,	0.480	0.012 (-0.119,	0.853	0.042 (-0.035,	0.042 (0.013,	0.003 (0.001,	-0.001 (-0.003,				
	0.012)	0.143)	0.118)	0.283	0.071)	0.005*	0.005)	0.005*	0.001)	0.452		
LVESVI	0.012 (-0.04,	0.127	-0.056 (-0.297,	0.646	0.125 (-0.014,	0.067 (0.013,	0.004 (0.000,	-0.002 (-0.006,				
	0.029)	0.185)	0.264)	0.077*	0.121)	0.016*	0.007)	0.042*	0.003)	0.469		

					0.031 (-							
	0.000 (-0.008,		-0.023 (-0.149,		0.042,		0.062 (0.036,		0.002 (0.000,		-0.003 (-0.005,	
LVMI	0.009)	0.913	0.100)	0.696	0.104)	0.398	0.088)	<0.001*	0.004)	0.027*	-0.001)	0.015*
LV remodeling	-0.303 (-1.103,		-2.252 (-		0.020 (-6.892,		3.839 (1.226,		0.030 (-		-0.284 (-0.483,	
index	0.498)	0.455	14.062, 9.558)	0.706	6.932)	0.995	6.452)	0.004*	0.151, 0.211)	0.743	-0.086)	0.005*
							-0.737 (-		-0.051 (-			
							1.398, -		0.095, -		0.109 (0.063,	
Upslope	-	-	-	-	-	-	0.077)	0.029*	0.007)	0.023*	0.156)	<0.001*
							0.056 (0.011,		0.003 (0.001,		-0.005 (-0.009,	
TTM	-	-	-	-	-	-	0.100)	0.015*	0.007)	0.011*	-0.002)	0.002*
							0.021 (-		0.001 (-		0.004 (-0.002,	
Max SI	-	-	-	-	-	-	0.058, 0.099)	0.601	0.004, 0.006)	0.675	0.010)	0.152

Abbreviations are as in table 1 and table 2.

*P<0.1