SUPPLEMENTAL MATERIAL

Coronary Microvascular Function Following Severe Preeclampsia

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Supplemental Methods.

Medical History and Details of the Index Pregnancy

Obstetrical and other medical history was collected by questionnaire administered by study staff and by review of the medical record. Among women with preeclampsia, clinical variables used to ascertain diagnosis, severity, and subtype of preeclampsia were extracted systematically from the medical record, including maximum antepartum systolic and diastolic blood pressures (SBP and DBP) and accompanying heart rate, maximum recorded proteinuria from a 24-hour urine collection or as estimated by a protein-to-creatinine ratio (standardized as equivalents of grams per 24 h for analysis), headache, other neurologic symptoms, pulmonary edema confirmed by chest radiography, and indices of kidney and liver function.

Transthoracic Echocardiography

Echocardiographic indices of interest were left ventricular (LV) wall thickness and relative wall thickness, LV end-systolic and diastolic dimensions, left atrial volume, mitral inflow E and A velocities and the E/A ratio, septal and lateral e' velocities and the average E/e' ratio, tricuspid regurgitant jet velocity, tricuspid annular S' velocity, tricuspid annular plane systolic excursion, and regional and global longitudinal strain. Relative wall thickness was calculated as 2*posterior wall thickness/LV end-diastolic dimension. LV ejection fraction and left atrial volume were each calculated using the biplane method of discs. Speckle tracking echocardiography software (Image-Arena version 4.6.6.3, TomTec, Munich, Germany) was used to measure LV longitudinal strain from apical two-, three-, and four-chamber views, segmented into basal, midventricular, and apical segments. Interpretation of each echocardiogram was performed independently by two investigators blinded to case-control status, clinical characteristics, and prior imaging, and averaged values were used in analysis.

Figure S1. Participants included in analyses of cardiac positron emission tomography and echocardiographic indices.

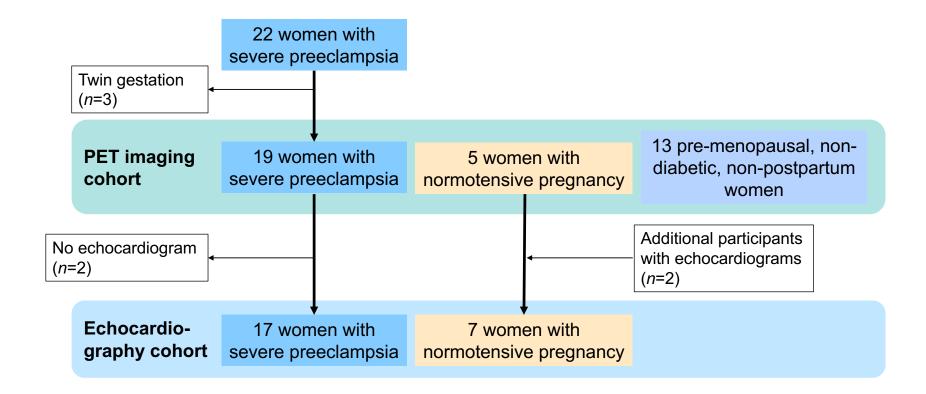


Figure S2. Timing of study assessments among postpartum participants.

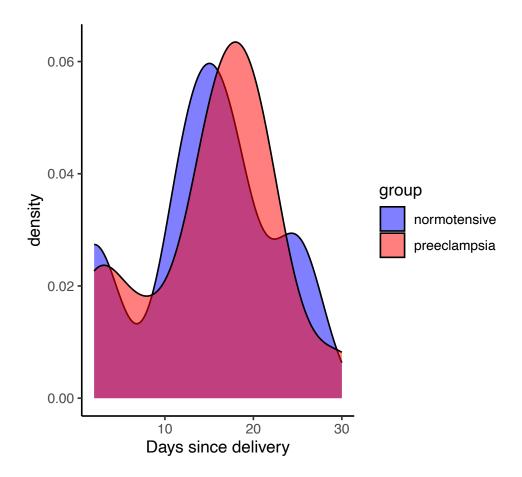


Figure S3. Differences in myocardial blood flow and coronary vascular resistance by group. Rest and stress coronary vascular resistance were increased in women following severe preeclampsia. Stress myocardial blood flow was reduced in both preeclamptic and normotensive postpartum women.

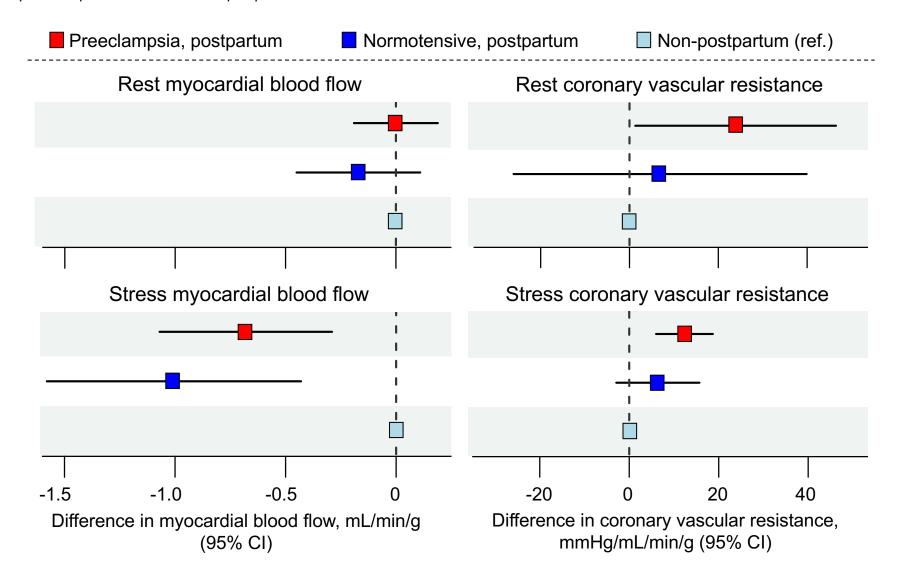
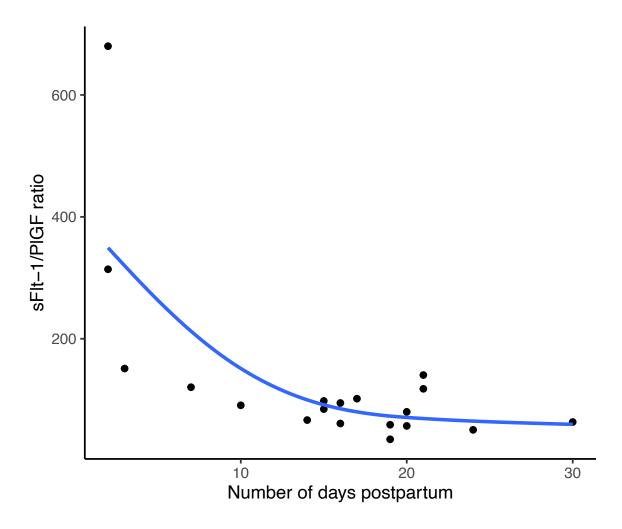


Figure S4. The ratio of sFlt-1/PIGF vs. days since delivery among women with preeclampsia (*n*=19).



Data were fit using a generalized additive model in the *ggplot2* package (R version 4.3.1). sFlt-1 indicates soluble fms-like tyrosine kinase receptor-1. PIGF indicates placental growth factor.

Figure S5. Correlation of (a) myocardial flow reserve and (b) rest myocardial blood flow with the sFlt-1/PIGF ratio among women with preeclampsia who did not require antihypertensive medication prior to study imaging (*n*=11). sFlt-1 indicates soluble fms-like tyrosine kinase receptor-1. PIGF indicates placental growth factor.

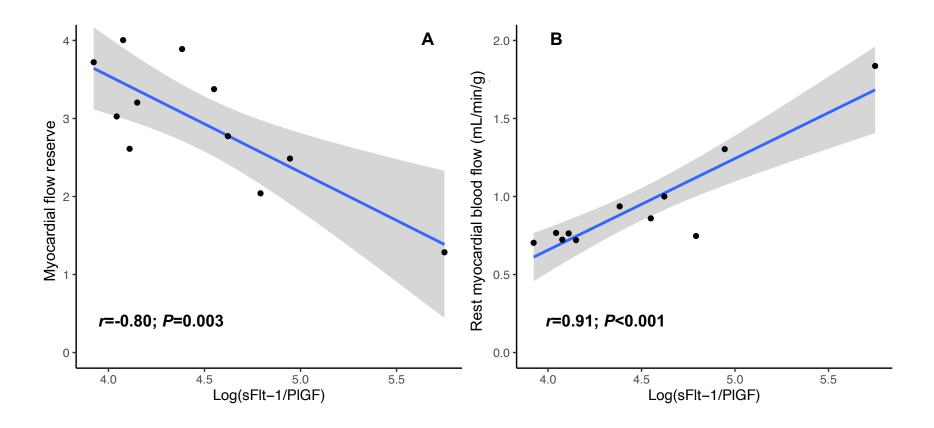


Table S1. Sensitivity analyses: Myocardial flow reserve, myocardial blood flow, coronary vascular resistance, and differences vs. non-postpartum individuals (a) excluding those with chronic hypertension and (b) excluding those with

gestational diabetes.

	(a) Preecl	ampsia, excluding pre-p chronic hypertension (<i>n</i> =15 included)	oregnancy		(b) Preeclampsia, excluding gestational diabetes (n=18 included)				
	Mean	Difference vs		Mean	VS.	Mean			
	(SD)	non-postpartu	m	(SD)	non-postpa	rtum	(SD)		
		Beta (95% CI)	P-value		Beta (95% CI)	P-value			
Myocardial flow reserve	2.81 (0.76)	-0.68 (-1.28 to -0.09)	0.03	2.84 (0.72)	-0.65 (-1.20 to -0.10)	0.02	3.49 (0.84)		
Rest MBF, mL/min/g	0.95 (0.31)	0.00 (-0.19 to 0.19)	0.97	0.95 (0.29)	-0.01 (-0.19 to 0.16)	0.90	0.96 (0.15)		
Stress MBF, mL/min/g	2.53 (0.55)	-0.70 (-1.07 to -0.34)	<0.001	2.58 (0.65)	-0.66 (-1.06 to -0.26)	0.002	3.24 (0.43)		
Rest CVR, mmHg/mL/min/g	109.2 (41.7)	22.2 (-1.5 to 46.0) 0.07		111.4 (40.8)	24.4 (1.2 to 47.6)	0.04	87.0 (16.0)		
Stress CVR, mmHg/mL/min/g	37.7 (9.2)	11.9 (6.1 to 17.7)	<0.001	37.7 (10.9)	11.9 (5.4 to 18.3)	<0.001	25.8 (6.2)		

MBF indicates myocardial blood flow. CVR indicates coronary vascular resistance. SD indicates standard deviation. Differences between preeclampsia and non-postpartum groups were calculated using unadjusted linear regression.

Table S2. Sensitivity analysis: Myocardial flow reserve, myocardial blood flow, coronary vascular resistance, and differences vs. non-postpartum participants by group, with adjustment for age and body mass index at the time of imaging.

	P	reeclampsia, postpartu (<i>n</i> =19)	m	Norm	Non-post- partum (n=13)		
	Mean (SD)	Adjusted differend non-postpartu		Mean (SD)	Mean (SD)		
	(02)	Beta (95% CI)	(02)	non-postpa Beta (95% CI)	P-value	(02)	
Myocardial flow reserve	2.82 (0.70)	-0.68 (-1.39 to 0.02)	-0.68			0.31	3.49 (0.84)
Rest MBF, mL/min/g	0.94 (0.29)	0.08 (-0.14 to 0.30)	0.48	0.73 (0.18)	-0.16 (-0.44 to 0.11)	0.24	0.96 (0.15)
Stress MBF, mL/min/g	2.55 (0.64)	-0.39 (-0.87 to 0.09)	0.11	2.23 (0.21)	-0.89 (-1.50 to -0.27)	0.006	3.24 (0.43)
Rest CVR, mmHg/mL/min/g	110.9 (39.7)	6.2 (-20.4 to 32.8)		94.0 (14.8)	2.8 (-30.8 to 36.5)	0.87	87.0 (16.0)
Stress CVR, mmHg/mL/min/g	38.2 (10.8)	7.1 (-0.2 to 14.5)	0.058	32.2 (1.9)	5.3 (-4.0 to 14.6)	0.25	25.8 (6.2)

MBF indicates myocardial blood flow. CVR indicates coronary vascular resistance. SD indicates standard deviation. Differences between each postpartum group and the non-postpartum group were calculated using multivariable-adjusted linear regression.

Table S3. Subgroup analyses: Myocardial flow reserve, myocardial blood flow, coronary vascular resistance, and differences vs. non-postpartum individuals in preeclampsia stratified by delivery before vs. at or after 34 weeks' gestation.

•	Pre	eclampsia with delive before 34 weeks	ery		mpsia with delive r after 34 weeks	ry	Non-post- partum
		(<i>n</i> =14)			(<i>n</i> =13)		
	Mean	Difference vs	S .	Mean	Difference	VS.	Mean
	(SD)	non-postpartu	ım	(SD)	non-postpa	rtum	(SD)
		Beta (95% CI)	P-value		Beta (95% CI)	P-value	
Myocardial flow reserve	2.79 (0.57)	-0.71 (-1.29 to -0.12)	0.02	2.92 (1.07)	-0.57 (-1.37 to 0.23)	0.15	3.49 (0.84)
Rest MBF, mL/min/g	0.91 (0.19)	-0.05 (-0.23 to 0.14)	0.60	1.03 (0.48)	0.07 (-0.18 to 0.32)	0.56	0.96 (0.15)
Stress MBF, mL/min/g	2.52 (0.70)	-0.71 (-1.14 to -0.29)	0.002	2.64 (0.51)	-0.59 (-1.18 to -0.01)	0.04	3.24 (0.43)
Rest CVR, mmHg/mL/min/g	104.6 (30.2)	17.6 (-6.1 to 41.3)	0.14	128.5 (60.1)	41.5 (9.1 to 73.9)	0.01	87.0 (16.0)
Stress CVR, mmHg/mL/min/g	38.2 (11.0)	12.4 (5.4 to 19.3)	<0.001	38.2 (11.5)	12.4 (2.9 to 21.9)	0.01	25.8 (6.2)

MBF indicates myocardial blood flow. CVR indicates coronary vascular resistance. SD indicates standard deviation. Differences between preeclampsia and non-postpartum groups were calculated using unadjusted linear regression.

Table S4. Association of time following delivery with myocardial flow reserve, myocardial blood flow, and coronary vascular resistance among postpartum individuals with preeclampsia (*n*=19).

	Myocardial flow reserve		Rest myocardial blood flow		Stress myocardial blood flow		Rest coronary vascular resistance		Stress coronary vascular resistance	
	Beta									
	(95%	P-	Beta		Beta	P-	Beta		Beta	
	CI)	value	(95% CI)	P-value	(95% CI)	value	(95% CI)	P-value	(95% CI)	P-value
No. of days	0.05		-0.02		0.01		2.2		-0.3	
postpartum at PET,	(0.02 to	0.008	(-0.04 to	0.02	(-0.03 to	0.69	(-0.2 to	0.07	(-1.0 to	0.46
per day	0.09)		-0.004)		0.05)		4.6)		0.5)	

Table S5. Subgroup analyses: Myocardial flow reserve, myocardial blood flow, coronary vascular resistance, and differences vs. non-postpartum individuals in preeclampsia with (*n*=8) or without (*n*=11) use of antihypertensive medication prior to imaging. Women with preeclampsia who required use of antihypertensive medication on the morning of the study visit completed study assessments at a median [IQR] 14.5 [8.3, 16.0] days postpartum, and those who did not require antihypertensive medication completed assessments at 19.0 [16.0, 20.5] days postpartum (*P*=0.10).

		sia with antihypert orning of the imag		Preeclampsia use on the mo		Non-post- partum	
		(<i>n</i> =8)			(<i>n</i> =13)		
	Mean	Difference	vs.	Mean	Difference	VS.	Mean
	(SD)	non-postpar	tum	(SD)	non-postpa	rtum	(SD)
		Beta (95% CI)	P-value		Beta (95% CI)	P-value	
Myocardial flow reserve	2.65 (0.49)	-0.84 (-1.49 to -0.10)	0.01	2.95 (0.82)	-0.55 (-1.22 to 0.12)	0.10	3.49 (0.84)
Rest MBF, mL/min/g	0.94 (0.20)	-0.02 (-0.18 to 0.14)	0.81	0.94 (0.35)	-0.01 (-0.22 to 0.19)	0.89	0.96 (0.15)
Stress MBF, mL/min/g	2.49 (0.74)	-0.74 (-1.23 to -0.26)	0.004	2.60 (0.59)	-0.64 (-1.04 to -0.24)	0.003	3.24 (0.43)
Rest CVR, mmHg/mL/min/g	101.5 (28.2)	14.5 (-4.4 to 33.4) 0.13		117.7 (46.5)	30.7 (4.3 to 57.1)	0.02	87.0 (16.0)
Stress CVR, mmHg/mL/min/g	38.7 (11.6)	12.9 (5.6 to 20.3)	0.001	37.8 (10.7)	12.0 (5.3 to 18.6)	0.001	25.8 (6.2)

MBF indicates myocardial blood flow. CVR indicates coronary vascular resistance. SD indicates standard deviation. Differences between preeclampsia and non-postpartum groups were calculated using unadjusted linear regression.

Table S6. Association of clinical factors with PET indices among women with preeclampsia (n=19).

	Myocardia	l flow	Rest myo		Stress myo		Rest coro	•	Stress co	
	reserv		blood f		blood fl		vascular resi	stance	vascular res	sistance
	Beta	P-	Beta	P-	Beta	P-	Beta	P-	Beta	
	(95% CI)	value	(95% CI)	value	(95% CI)	value	(95% CI)	value	(95% CI)	P-value
Age at PET, per year	0.04 (-0.09 to 0.16)	0.54	0 (-0.05 to 0.05)	0.99	0.04 (-0.07 to 0.16)	0.43	1.3 (-5.9 to 8.5)	0.71	-0.7 (-2.7 to 1.2)	0.43
BMI at PET, per kg/m²	-0.01 (-0.06 to 0.04)	0.66	-0.01 (-0.03 to 0.01)	0.36	-0.03 (-0.08 to 0.01)	0.15	3.0 (0.6 to 5.5)	0.02	0.9 (0.2 to 1.5)	0.01
BMI ≥30 kg/m² vs. <30 kg/m² at PET	-0.21 (-0.90 to 0.48)	0.53	-0.25 (-0.50 to 0.01)	0.06	-0.72 (-1.24 to -0.20)	0.01	48.1 (17.0 to 79.2)	0.004	14.9 (7.3 to 22.5)	<0.001
Gestational age at delivery, per week	0.02 (-0.07 to 0.12)	0.60	0.02 (-0.02 to 0.05)	0.36	0.03 (-0.05 to 0.12)	0.45	1.2 (-4.1 to 6.5)	0.65	-0.2 (-1.7 to 1.2)	0.74
Delivery <34 weeks vs. ≥34 weeks	-0.14 (-0.93 to 0.65)	0.72	-0.12 (-0.44 to 0.20)	0.43	-0.12 (-0.84 to 0.60)	0.73	-23.9 (-67.2 to 19.3)	0.26	0 (-12.2 to 12.2)	1
Non-White vs. White race/ethnicity	-0.28 (-1.13 to 0.56)	0.49	0.29 (-0.03 to 0.60)	0.07	0.13 (-0.65 to 0.91)	0.73	2.0 (-46.5 to 50.6)	0.93	-0.8 (-14.0 to 12.4)	0.90
Pre-pregnancy chronic hypertension vs. normotension	0.05 (-0.80 to 0.91)	0.90	-0.06 (-0.41 to 0.29)	0.72	0.09 (-0.69 to 0.87)	0.82	7.9 (-40.4 to 56.3)	0.73	2.3 (-10.8 to 15.5)	0.71
Primiparous (i.e., first pregnancy) vs. multiparous	-0.35 (-1.05 to 0.35)	0.31	0.01 (-29 to 0.30)	0.97	-0.36 (-0.99 to 0.28)	0.25	-21.5 (-64.1 to 13.8)	0.19	0.6 (-10.6 to 11.7)	0.91
Ever-smoking vs. never-smoking	-0.43 (-1.26 to 0.40)	0.29	-0.06 (-0.41 to 0.29)	0.71	-0.43 (-1.18 to 0.33)	0.25	10.4 (-37.8 to 58.6)	0.66	11.3 (-0.5 to 23.2)	0.06

Use of aspirin in	0.43		-0.10		0.24		28.0		2.7	
pregnancy vs.	(-0.29 to	0.23	(-0.40 to	0.49	(-0.44 to	0.47	(-12.1 to	0.16	(-8.8 to	0.63
none	1.15)		0.20)		0.91)		68.1)		14.2)	
Max SBP before	0		-0.01		-0.02		0.5		0.2	
delivery, per	(-0.02 to	0.71	(-0.01 to	0.13	(-0.03 to	0.04	(-0.6 to 1.5)	0.39	(-0.1 to 0.5)	0.16
mmHg	0.02)		0.00)		0.00)		(-0.0 to 1.5)		(-0.1 to 0.5)	
Max DBP	-0.01		0		-0.02					
recorded before	(-0.05 to	0.52	(-0.02 to	0.55	(-0.05 to	0.15	1.2	0.20	0.4	0.13
delivery, per	0.02)	0.02	0.01)	0.00	0.01)	00	(-0.7 to 3.1)	0.20	(-0.1 to 0.9)	
mmHg	,		,		,					
HR with max	-0.01		0		-0.01		0.0		0.3	
SBP in	(-0.03 to	0.32	(-0.01 to	0.49	(-0.03 to	0.12	0.6	0.32	(0.00 to	0.07
pregnancy, per bpm	0.01)		0.01)		0.00)		(-0.6 to 1.8)		0.6)	
Log(Maximum										
recorded	0		-0.01		-0.04		-3.8		-0.6	
proteinuria), per	(-0.21 to	0.98	(-0.10 to	0.77	(-0.23 to	0.66	(-15.6 to 8.1)	0.51	(-3.9 to 2.6)	0.68
log(g)	0.21)		0.07)		0.15)		(10.0 to 0.1)		(0.0 to 2.0)	
	-0.43		-0.14		-0.67		11.1		11.8	
Headache vs.	(-1.10 to	0.19	(-0.42 to	0.30	(-1.21 to	0.02	(-28.6 to	0.56	(2.8 to	0.01
none	0.23)		0.14)		`-0.12)		`50.8)		20.9)	
Vision shanges	0.52		-0.13		0.28		19.0		-2.7	
Vision changes vs. none	(-0.29 to	0.19	(-0.47 to	0.43	(-0.49 to	0.45	(-28.6 to	0.41	(-15.8 to	0.67
	1.33)		0.21)		1.05)		66.6)		10.4)	
Pulmonary	0.05		-0.15		-0.27		18.0		2.8	
edema by CXR	(-0.70 to	0.88	(-0.44 to	0.31	(-0.94 to	0.41	(-23.6 to	0.37	(-8.6 to	0.61
vs. none	0.81)		0.15)		0.41)		59.6)		14.3)	
ALT or AST >2x	0.12		-0.05		0.11		-18.1		-3.1	
ULN vs. within	(-0.59 to	0.73	(-0.34 to	0.73	(-0.53 to	0.72	(-57.1 to	0.34	(-13.9 to	0.55
normal limits	0.82)		0.24)		0.76)		21.0)		7.7)	
Minimum	-0.18		0.05		-0.18		-16.2		-0.8	0.00
platelets <100K	(-0.93 to	0.62	(-0.25 to	0.72	(-0.86 to	0.58	(-57.9 to	0.43	(-12.4 to	0.88
vs. ≥100K	0.57)		0.36)		0.50)		25.6)		10.7)	
Maximum	0.06	0.00	-0.01	0.00	0.03	0.00	2.0	0.00	0.0	
recorded uric	(-0.23 to	0.66	(-0.12 to	0.92	(-0.25 to	0.90	(-14.4 to	0.80	(-4.7 to 4.7)	1
acid, per mg/dL	0.35)		0.11)		0.28)		18.4)		(,	

Minimum hematocrit, per %	-0.02 (-0.11 to 0.07)	0.59	-0.01 (-0.05 to 0.02)	0.44	-0.02 (-0.11 to 0.06)	0.53	-1.1 (-6.1 to 4.0)	0.66	0.7 (-0.6 to 2.0)	0.27
Newborn weight, per kg	0.28 (-0.24 to 0.81)	0.27	0.01 (-0.21 to 0.24)	0.89	0.13 (-0.36 to 0.63)	0.58	13.4 (-16.8 to 43.5)	0.36	-2.1 (-10.4 to 6.2)	0.60

Table S7. Characteristics of the study cohort with echocardiographic data

	Preeclampsia,	Normotensive,	
	postpartum	postpartum	
	(<i>n</i> =17)	(n=7)	P-value
Age at study visit	32.6 (2.7)	33.0 (4.0)	0.82
Race/ethnicity			
Asian	0 (0%)	2 (28.6%)	
Black	2 (11.8%)	0 (0%)	0.17
Hispanic	2 (11.8%)	1 (14.3%)	
White	13 (76.5%)	4 (57.1%)	
Chronic hypertension	4 (23.5%)	0 (0%)	0.28
Chronic diabetes mellitus	0 (0%)	0 (0%)	1
Former smoking history	4 (23.5%)	0 (0%)	0.28
Within past 12 months	1 (5.9%)	0 (0%)	1
History of hypertensive disorder in previous pregnancy	3 (17.6%)	0 (0%)	0.53
Parity			
• 1	11 (64.7%)	3 (42.9%)	0.57
• 2	3 (17.6%)	2 (28.6%)	0.57
• 3+	3 (17.6%)	2 (28.6%)	
Pre-pregnancy body mass index	27.5 [22.7, 32.3]	24.0 [20.8, 25.8]	0.10
Gestational diabetes in index pregnancy	1 (5.9%)	0 (0%)	1
Use of aspirin for preeclampsia prevention in index	6 (35.3%)	0 (0%)	0.13
pregnancy	0 (33.3%)	0 (0%)	0.13
Gestational age at delivery, weeks + days	31+2	39+0	<0.001
	[29+4, 35+4]	[38+5.75, 39+6.25]	\0.001
Mechanism of delivery			
 Spontaneous vaginal 	1 (5.9%)	5 (71.4%)	<0.001
Assisted vaginal	0 (0%)	1 (14.3%)	\0.001
Cesarean section	16 (94.1%)	1 (14.3%)	
Days postpartum at study visit	15.5 (7.9)	13.7 (7.8)	0.63
Body mass index at study visit	28.9	22.7	0.08
body mass muck at study visit	[26.3, 35.8]	[22.6, 30.9]	
Rest systolic blood pressure at study visit	138.2 (20.0)	104.4 (14.3)	0.002
Rest diastolic blood pressure at study visit	77.9 (12.6)	62.2 (9.4)	0.002
Rest heart rate at study visit	72.5 (11.8)	55.6 (5.9)	0.001

Table S8. Correlation of myocardial flow reserve, myocardial blood flow, and coronary vascular resistance with echocardiographic parameter among postpartum individuals with preeclampsia (*n*=19).

	Myocardia	al flow reserve	Res	t MBF	Stres	ss MBF
	r	P-value	r	P-value	r	P-value
Septal wall, mm	-0.35	0.16	0.18	0.50	-0.26	0.32
Posterior wall, mm	-0.34	0.18	-0.03	0.91	-0.49	0.04
Relative wall thickness	-0.33	0.20	0.05	0.86	-0.39	0.13
LVEDD, mm	0.11	0.69	-0.21	0.41	-0.13	0.62
LVESD, mm	0.41	0.10	-0.26	0.32	0.19	0.45
LV ejection fraction, %	-0.37	0.14	0.58	0.02	0.21	0.42
LA volume, mL	-0.27	0.30	-0.26	0.32	-0.56	0.02
Mitral E, cm/s	-0.35	0.17	0.22	0.40	-0.24	0.36
Mitral A, cm/s	-0.32	0.22	0.32	0.22	-0.23	0.37
Mitral E/A ratio	-0.05	0.85	0.00	0.99	0.08	0.77
Lateral e', cm/s	-0.16	0.54	0.53	0.03	0.30	0.24
Septal e', cm/s	-0.24	0.35	0.37	0.14	0.11	0.69
Average E/e' ratio	-0.04	0.88	-0.38	0.14	-0.45	0.07
TR velocity, cm/s	0.37	0.21	0.03	0.93	0.30	0.33
S', cm/s	-0.27	0.30	0.34	0.18	0.05	0.86
TAPSE, cm	-0.09	0.72	0.30	0.25	0.12	0.65
RV fractional age change, %	0.08	0.76	-0.02	0.95	0.15	0.57
Basal LV longitudinal strain, %	-0.13	0.61	0.23	0.37	-0.03	0.91
Mid-LV longitudinal strain, %	-0.09	0.74	0.13	0.61	-0.01	0.96
Apical longitudinal strain, %	0.10	0.70	0.02	0.95	0.00	0.99
Global longitudinal strain, %	0.07	0.79	0.01	0.97	0.01	0.96

Table S9. Correlation of angiogenic biomarkers with PET indices.

	Муо	cardial reserve	myo	Rest cardial od flow	myod	ess cardial d flow	vas	coronary scular stance	co va	tress ronary scular istance
		P-		P-		P-				
	r	value	r	value	r	value	r	P-value	r	P-value
Log(sFlt-1/PIGF ratio)	-0.45	0.05	0.71	<0.001	0.22	0.36	-0.55	0.01	-0.16	0.51
Log(sFlt-1)	-0.46	0.06	0.56	0.02	0.05	0.82	-0.45	0.13	-0.01	0.91
Log(PIGF)	-0.34	0.15	0.23	0.35	-0.15	0.55	-0.06	0.81	0.25	0.31