

Appendix 1. PETRA Investigators and Affiliations

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C.A.Combs	Obstetrix Medical Group, San Jose, CA
L. A. Friel	University of Texas Health Sciences Center, Houston, TX
C. Gyamfi-Bannerman	Columbia University Medical Center, New York, NY
H.Y. How	Norton Healthcare, Louisville, KY
S. Joy	Carolinas HealthCare System, Charlotte, NC
A. Lee	Corvallis Clinic, Corvallis, OR
B.J. Levine	Phoenix OB/GYN, Moorestown, NJ
D.F. Lewis Jr	Greater Cincinnati OB/GYN, Inc., Cincinnati, OH
J.N. Martin Jr	University of Mississippi, Jackson, MS
A.L. Ness	Saint Peter's University Hospital, New Brunswick, NJ
L. Pereira	Oregon Health & Science University, Portland, OR
R.R. Reagan	Women's Healthcare, San Diego, CA
C.J. Robinson	Medical University of South Carolina, Charleston, SC
S. Sadanandan	Regional Obstetrical Consultants, Chattanooga, TN
C. Saffer	West Coast OB/GYN, San Diego, CA
S. Sunderji	ProMedica Physician Group, Toledo, OH
F. Tillman	Discovery Clinical Trials, Dallas, TX
P. von Dadelszen	BC Women's Hospital and Health Centre, Vancouver, BC, Canada

Parchem JG, Brock CO, Chen HY, Kalluri R, Barton JR, Sibai BM. Abnormal placental growth factor and the risk of adverse neonatal and maternal outcomes. *Obstet Gynecol* 2020;135.

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Appendix 2. Hypertensive Disorder Categories by Placental Growth Factor Level

Diagnosis	All	PIGF Category		P
Low PIGF	n=1112	≤100 (n=742)	>100 (n=370)	
Preeclampsia with severe features*	684 (61.5)	525 (70.8)	159 (43.0)	<0.001
Preeclampsia without severe features or gestational hypertension	168 (15.1)	104 (14.0)	64 (17.3)	
Chronic hypertension†	70 (6.3)	32 (4.3)	38 (10.3)	
No hypertensive disorder	190 (7.1)	81 (10.9)	109 (29.5)	
Very low PIGF	n=1112	<12 (n=353)	≥12 (n=759)	
Preeclampsia with severe features*	684 (61.5)	298 (84.4)	386 (50.9)	<0.001
Preeclampsia without severe features or gestational hypertension	168 (15.1)	23 (6.5)	145 (19.1)	
Chronic hypertension†	70 (6.3)	7 (2.0)	63 (8.3)	
No hypertensive disorder	190 (7.1)	25 (7.1)	165 (21.7)	

PIGF, placental growth factor.

Data are presented as n (%).

*Includes gestational hypertension with severe range blood pressure and superimposed preeclampsia.

†Chronic hypertension without evidence of preeclampsia.

Appendix 3. Composite Neonatal Adverse Outcome by Hypertensive Disorder Categories, Placental Growth Factor, and Small for Gestational Age

Hypertensive Disorder Diagnosis*	All	Outcome	Low PIGF			
			≤100	Outcome	>100	Outcome
Overall	1105	71 (6.4)	737	68 (9.2)	368	3 (0.8)
No SGA	776	30 (3.9)	454	27 (5.9)	322	3 (0.9)
SGA	329	41 (12.5)	283	41 (14.5)	46	0 (0.0)
Preeclampsia with severe features†	682	61 (8.9)	523	59 (11.3)	159	2 (1.3)
No SGA	434	24 (5.5)	298	22 (7.4)	136	2 (1.5)
SGA	248	37 (14.9)	225	37 (16.4)	23	0 (0.0)
Preeclampsia without severe features‡	168	1 (0.6)	104	1 (1.0)	64	0 (0.0)
No SGA	134	0 (0.0)	76	0 (0.0)	58	0 (0.0)
SGA	34	1 (2.9)	28	1 (3.6)	6	0 (0.0)
Chronic hypertension§	68	2 (2.9)	31	2 (6.5)	37	0 (0.0)
No SGA	52	0 (0.0)	21	0 (0.0)	31	0 (0.0)
SGA	16	2 (12.5)	10	2 (20.0)	6	0 (0.0)
No hypertensive disorder	187	7 (3.7)	79	6 (7.6)	108	1 (0.9)
No SGA	156	6 (3.8)	59	5 (8.5)	97	1 (1.0)
SGA	31	1 (3.2)	20	1 (5.0)	11	0 (0.0)

Hypertensive Disorder Diagnosis*	All	Outcome	Very low PIGF			
			<12	Outcome	≥12	Outcome
Overall	1105	71 (6.4)	351	58 (16.5)	754	13 (1.7)
No SGA	776	30 (3.9)	172	22 (12.8)	604	8 (1.3)
SGA	329	41 (12.5)	179	36 (20.1)	150	5 (3.3)
Preeclampsia with severe features†	682	61 (8.9)	296	50 (16.9)	386	11 (2.8)
No SGA	434	24 (5.5)	142	18 (12.7)	292	6 (2.1)
SGA	248	37 (14.9)	154	32 (20.8)	94	5 (5.3)

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Preeclampsia without severe features†	168	1 (0.6)	23	1 (4.3)	145	0 (0.0)
No SGA	134	0 (0.0)	10	0 (0.0)	124	0 (0.0)
SGA	34	1 (2.9)	13	1 (7.7)	21	0 (0.0)
Chronic hypertension§	68	2 (2.9)	7	2 (28.6)	61	0 (0.0)
No SGA	52	0 (0.0)	4	0 (0.0)	48	0 (0.0)
SGA	16	2 (12.5)	3	2 (66.7)	13	0 (0.0)
No hypertensive disorder	187	7 (3.7)	25	5 (20.0)	162	2 (1.2)
No SGA	156	6 (3.8)	16	4 (25.0)	140	2 (1.4)
SGA	31	1 (3.2)	9	1 (11.1)	22	0 (0.0)

PIGF, placental growth factor; SGA, small for gestational age.

Data are presented as n or n (%).

*Adjudicated diagnoses reclassified into ACOG 2019 Practice Bulletin categories.

†Includes gestational hypertension with severe range blood pressure and superimposed preeclampsia.

‡Includes gestational hypertension with mild range blood pressure.

§Chronic hypertension without evidence of preeclampsia.