Supplementary Material

Associations Between Parity and Cognition: Race/Ethnic Differences

	CERAD Word Learning		CERAD Delayed Recall		Animal Fluency		Digit Symbol	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Latinas (ref.)								
NLW	1.21	**0.006**	0.59	**0.009**	1.53	**0.002**	8.92	**<0.001**
NLB	0.03	0.948	-0.10	0.674	-2.06	**<0.001**	-0.70	0.635
Parity	0.06	0.673	-0.01	0.910	0.19	0.173	-0.25	0.531
Parity quadratic	0.01	0.844	0.00	0.812	-0.09	**0.009**	-0.18	0.076
Observations	780		780		776		746	
R^2 / R^2 adjusted	0.251 / 0.233		0.183 / 0.164		0.309 / 0.293		0.511 / 0.499	

Supplemental Model Sets 1: Main effect examination of the non-linear relationships between parity (quadratic), race, and cognitive outcomes

NLW, Non-Latino White; NLB, Non-Latino Black
All models were adjusted for: age at cognitive testing, age at first pregnancy, age at last menstrual period, BMI, cardiovascular disease (CVD) composite score, poverty income ratio (PIR), depressive symptoms (PHQ), education, history of oral contraceptive use, hypertension history, diabetes history.
Bold values denote statistical significance at the $p < 0.05$ level.

	Non-Latino White							
	CERAD Word Learning		**CERAD Delayed Recall**		**Animal Fluency**		**Digit Symbol**	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Parity	-0.01	0.952	-0.07	0.447	0.15	0.480	0.62	0.297
Parity quadratic	0.04	0.531	0.03	0.320	-0.15	**0.017**	-0.40	**0.030**
Observations	431		431		428		421	
R^2 / R^2 adjusted	0.226 / 0.196		0.190 / 0.159		0.324 / 0.297		0.428 / 0.405	
	Latina							
	CERAD Word Learning		**CERAD Delayed Recall**		**Animal Fluency**		**Digit Symbol**	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Parity	-0.04	0.861	-0.06	0.604	0.31	0.267	-1.59	0.053
Parity quadratic	0.03	0.531	0.01	0.788	-0.16	**0.014**	-0.03	**0.886**
Observations	179		178		177		162	
R^2 / R^2 adjusted	0.416 / 0.359		0.294 / 0.224		0.277 / 0.204		0.639 / 0.600	
	Non-Latino Black							
	CERAD Word Learning		**CERAD Delayed Recall**		**Animal Fluency**		**Digit Symbol**	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Parity	0.25	0.456	0.10	0.503	0.06	0.851	-1.05	0.209
Parity quadratic	-0.06	0.507	-0.02	0.697	-0.01	0.916	0.11	0.669
Observations	170		171		171		163	
R^2 / R^2 adjusted	0.183 / 0.097		0.219 / 0.137		0.214 / 0.133		0.447 / 0.387	

Supplemental Model Sets 2: Non-linear associations between parity (quadratic) and cognition stratified by Race/ethnicity

All models were adjusted for: age at cognitive testing, age at first pregnancy, age at last menstrual period, BMI, cardiovascular disease (CVD) composite score, poverty income ratio (PIR), depressive symptoms (PHQ), education, history of oral contraceptive use, hypertension history, diabetes history.
Bold values denote statistical significance at the $p < 0.05$ level.

	CERAD Word Learning		CERAD Delayed Recall		Animal Fluency		Digit Symbol	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Parity	0.15	*0.535*	0.03	0.840	0.25	0.416	-1.15	0.165
Parity quadratic	0.01	*0.858*	0.00	0.908	-0.15	**0.037**	-0.14	0.479
MESA Acculturation total score	0.28	*0.388*	0.18	0.308	0.29	0.469	1.27	0.224
Cog tests taken in English (Ref.)								
Cog tests taken in Spanish	-1.81	***0.044***	-0.49	0.315	0.66	0.552	-6.96	**0.017**
Observations	171		170		169		156	
R^2 / R^2 adjusted	0.445 / 0.379		0.299 / 0.215		0.250 / 0.160		0.671 / 0.628	

Supplemental Model Sets 3: Examination of the effect of acculturation and preferred language during cognitive testing in the association between parity (quadratic) and cognitive outcomes among Latinas

All models were adjusted for: age at cognitive testing, age at first pregnancy, age at last menstrual period, BMI, cardiovascular disease (CVD) composite score, poverty income ratio (PIR), depressive symptoms (PHQ), education, history of oral contraceptive use, hypertension history, diabetes history.
Bold values denote statistical significance at the $p < 0.05$ level.

	CERAD Word Learning		CERAD Delayed Recall		Animal Fluency		Digit Symbol	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Latinas (ref.)								
NLW	1.13	**0.007**	0.51	**0.015**	1.51	**0.001**	8.89	**<0.001**
NLB	-0.03	0.947	-0.15	0.525	-2.06	**<0.001**	-1.15	0.416
Parity	0.06	0.450	-0.03	0.453	0.00	0.986	-0.50	**0.052**
Observations	856		856		853		823	
R^2 / R^2 adjusted	0.249 / 0.235		0.196 / 0.180		0.297 / 0.283		0.515 / 0.505	

Supplemental Model Sets 4: Main effect examination of the non-linear relationships between parity, race, and cognitive outcomes among parous and nulliparous women

NLW, Non-Latino White; NLB, Non-Latino Black
All models were adjusted for: age at cognitive testing, age at last menstrual period, BMI, cardiovascular disease (CVD) composite score, poverty income ratio (PIR), depressive symptoms (PHQ), education, history of oral contraceptive use, hypertension history, diabetes history.
Bold values denote statistical significance at the $p < 0.05$ level.

	CERAD Word Learning		CERAD Delayed Recall		Animal Fluency		Digit Symbol	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Latinas (ref.)								
NLW	1.12	**0.008**	0.51	**0.016**	1.51	**0.001**	8.88	**<0.001**
NLB	-0.06	0.893	-0.15	0.505	-2.05	**<0.001**	-1.30	0.358
Parity	-0.06	0.653	-0.07	0.341	-0.01	0.950	-1.11	**0.014**
Latina by Parity (ref.)								
NLW by Parity	0.17	0.340	0.04	0.669	-0.04	0.834	1.04	0.069
NLB by Parity	0.21	0.316	0.08	0.463	0.11	0.630	0.62	0.336
Observations	856		856		853		823	
R^2 / R^2 adjusted	0.251 / 0.234		0.196 / 0.179		0.297 / 0.282		0.517 / 0.506	

Supplemental Model Sets 5: Race-by-parity interactions in the association between parity and cognitive outcomes among parous and nulliparous women

NLW, Non-Latino White; NLB, Non-Latino Black
All models were adjusted for: age at cognitive testing, age at last menstrual period, BMI, cardiovascular disease (CVD) composite score, poverty income ratio (PIR), depressive symptoms (PHQ), education, history of oral contraceptive use, hypertension history, diabetes history.
Bold values denote statistical significance at the $p < 0.05$ level.

	Non-Latino White							
	CERAD Word Learning		**CERAD Delayed Recall**		**Animal Fluency**		**Digit Symbol**	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Parity	0.10	0.426	-0.05	0.439	-0.01	0.952	-0.23	0.559
Observations	474		474		471		465	
R^2 / R^2 adjusted	0.224 / 0.201		0.190 / 0.165		0.295 / 0.274		0.423 / 0.405	
	Latina							
	CERAD Word Learning		**CERAD Delayed Recall**		**Animal Fluency**		**Digit Symbol**	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Parity	0.03	0.830	-0.05	0.502	-0.08	0.647	-0.99	**0.030**
Observations	193		192		191		177	
R^2 / R^2 adjusted	0.407 / 0.360		0.298 / 0.243		0.250 / 0.191		0.640 / 0.608	
	Non-Latino Black							
	CERAD Word Learning		**CERAD Delayed Recall**		**Animal Fluency**		**Digit Symbol**	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Parity	-0.01	0.950	-0.02	0.849	0.02	0.929	-0.35	0.498
Observations	189		190		191		181	
R^2 / R^2 adjusted	0.182 / 0.116		0.243 / 0.182		0.201 / 0.137		0.467 / 0.422	

Supplemental Model Sets 6: Race/ethnicity stratified analysis in the associations between parity with cognition among parous and nulliparous women

All models were adjusted for: age at cognitive testing, age at last menstrual period, BMI, cardiovascular disease (CVD) composite score, poverty income ratio (PIR), depressive symptoms (PHQ), education, history of oral contraceptive use, hypertension history, diabetes history.
Bold values denote statistical significance at the $p < 0.05$ level.

	CERAD Word Learning		CERAD Delayed Recall		Animal Fluency		Digit Symbol	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Parity	0.15	*0.281*	0.02	0.828	-0.12	0.490	-0.75	0.106
MESA Acculturation total score	0.36	*0.243*	0.16	0.348	0.50	0.203	2.07	**0.032**
Cog tests taken in English (Ref.)								
Cog tests taken in Spanish	-1.61	*0.058*	-0.60	0.187	-0.12	0.490	-0.75	0.106
Observations	185		184		183		171	
R^2 / R^2 adjusted	0.436 / 0.382		0.305 / 0.239		0.239 / 0.166		0.675 / 0.641	

Supplemental Model Sets 7: Examination of the effect of acculturation and preferred language during cognitive testing in the association between parity and cognitive outcomes among parous and nulliparous Latinas

All models were adjusted for: age at cognitive testing, age at last menstrual period, BMI, cardiovascular disease (CVD) composite score, poverty income ratio (PIR), depressive symptoms (PHQ), education, history of oral contraceptive use, hypertension history, diabetes history.
Bold values denote statistical significance at the $p < 0.05$ level.

	CERAD Word Learning		CERAD Delayed Recall		Animal Fluency		Digit Symbol	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Latinas (ref.)								
NLW	1.13	**0.007**	0.52	**0.014**	1.50	**0.001**	8.86	**<0.001**
NLB	-0.04	0.932	-0.16	0.487	-2.00	**<0.001**	-1.03	0.465
Parity	0.04	0.684	-0.07	0.170	0.15	0.176	-0.26	0.376
Parity quadratic	0.01	0.650	0.02	0.163	-0.07	**0.010**	-0.14	0.094
Observations	856		856		853		823	
R^2 / R^2 adjusted	0.250 / 0.234		0.197 / 0.181		0.302 / 0.288		0.517 / 0.506	

Supplemental Model Sets 8: Main effect examination of the non-linear relationships between parity (quadratic), race, and cognitive outcomes among parous and nulliparous women

NLW, Non-Latino White; NLB, Non-Latino Black
All models were adjusted for: age at cognitive testing, age at last menstrual period, BMI, cardiovascular disease (CVD) composite score, poverty income ratio (PIR), depressive symptoms (PHQ), education, history of oral contraceptive use, hypertension history, diabetes history.
Bold values denote statistical significance at the $p < 0.05$ level.

	Non-Latino White							
	CERAD Word Learning		**CERAD Delayed Recall**		**Animal Fluency**		**Digit Symbol**	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Parity	0.06	0.674	-0.10	0.136	0.18	0.265	0.01	0.974
Parity quadratic	0.03	0.528	0.04	0.079	-0.13	**0.011**	-0.19	0.187
Observations	474		474		471		465	
R^2 / R^2 adjusted	0.225 / 0.200		0.196 / 0.169		0.305 / 0.283		0.425 / 0.406	
	Latina							
	CERAD Word Learning		**CERAD Delayed Recall**		**Animal Fluency**		**Digit Symbol**	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Parity	-0.01	0.970	-0.06	0.470	0.21	0.272	-0.75	0.147
Parity quadratic	0.02	0.693	0.01	0.767	-0.14	**0.006**	-0.13	0.335
Observations	193		192		191		177	
R^2 / R^2 adjusted	0.407 / 0.357		0.298 / 0.239		0.282 / 0.221		0.642 / 0.608	
	Non-Latino Black							
	CERAD Word Learning		**CERAD Delayed Recall**		**Animal Fluency**		**Digit Symbol**	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Parity	0.03	0.914	-0.04	0.673	-0.01	0.978	-0.39	0.515
Parity quadratic	-0.02	0.753	0.02	0.620	0.01	0.847	0.03	0.884
Observations	189		190		191		181	
R^2 / R^2 adjusted	0.182 / 0.111		0.244 / 0.178		0.201 / 0.132		0.467 / 0.419	

Supplemental Model Sets 9: Non-linear associations between parity (quadratic) and cognition stratified by Race/ethnicity among parous and nulliparous women

All models were adjusted for: age at cognitive testing, age at last menstrual period, BMI, cardiovascular disease (CVD) composite score, poverty income ratio (PIR), depressive symptoms (PHQ), education, history of oral contraceptive use, hypertension history, diabetes history.
Bold values denote statistical significance at the $p < 0.05$ level.

	CERAD Word Learning		CERAD Delayed Recall		Animal Fluency		Digit Symbol	
Predictors	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*	*Estimates*	*p*
Parity	0.16	*0.361*	0.01	0.941	0.15	0.477	-0.31	0.557
Parity quadratic	0.00	*0.960*	0.00	0.855	-0.12	**0.021**	-0.22	0.109
MESA Acculturation total score	0.36	*0.250*	0.16	0.342	0.40	0.295	1.84	0.057
Cog tests taken in English (Ref.)								
Cog tests taken in Spanish	-1.61	*0.063*	-0.59	0.211	1.28	0.230	-6.15	**0.024**
Observations	185		184		183		171	
R^2 / R^2 adjusted	0.436 / 0.378		0.306 / 0.235		0.263 / 0.187		0.680 / 0.645	

Supplemental Model Sets 10: Examination of the effect of acculturation and preferred language during cognitive testing in the association between parity (quadratic) and cognitive outcomes among parous and nulliparous Latinas

All models were adjusted for: age at cognitive testing, age at last menstrual period, BMI, cardiovascular disease (CVD) composite score, poverty income ratio (PIR), depressive symptoms (PHQ), education, history of oral contraceptive use, hypertension history, diabetes history.
Bold values denote statistical significance at the $p < 0.05$ level.