

Appendix Table A1: Parity and baseline prevalent TFROA, with zero births as referent.

Number of Births	Total # Knees	% With ROA	Crude	Age, BMI, race-Adj.		Multi-Adj.*	
			RR	RR	p-value	PR	p-value
0 (ref)	416	36.78	1.0	1.0		1.0	
1	362	32.87	0.9 (0.7, 1.1)	0.9 (0.7, 1.1)	0.1953	0.9 (0.7, 1.1)	0.1952
2	1028	35.02	1.0 (0.8, 1.1)	1.0 (0.8, 1.2)	0.2133	1.0 (0.8, 1.2)	0.9735
3	742	45.15	1.2 (1.0, 1.5)	1.1 (1.0, 1.4)	0.9802	1.1 (0.9, 1.3)	0.1995
4	380	44.21	1.2 (1.0, 1.5)	1.1 (0.9, 1.3)	0.1398	1.0 (0.9, 1.3)	0.6737
5-12	300	51.33	1.4 (1.1, 1.7)	1.1 (0.9, 1.3)	0.6021	1.1 (0.9, 1.3)	0.4823

*adjusted for age, BMI, race, education, occupation, injury/surgery, estrogen use, clinical site. KR was considered to be prevalent ROA.

Appendix Table A2: Parity and incident TFROA over 30 months, including new KR, with zero births as referent.

Number of Births	Total # Knees	% With incident ROA	Crude	Age, BMI, race-Adj.		Multi-Adj.*	
			RR	RR	p-value	RR	p-value
0 (ref)	263	6.84	1.0	1.0		1.0	
1	241	5.39	0.8 (0.4, 1.6)	0.8 (0.4, 1.7)	0.5628	0.8 (0.4, 1.6)	0.5164
2	657	6.09	0.9 (0.5, 1.6)	1.0 (0.6, 1.8)	0.9861	1.0 (0.6, 1.8)	0.9708
3	407	7.13	1.0 (0.6, 1.8)	1.1 (0.6, 2.0)	0.7160	1.2 (0.6, 2.2)	0.6552
4	212	8.02	1.2 (0.6, 2.3)	1.2 (0.6, 2.3)	0.5908	1.3 (0.6, 2.6)	0.4820
5-12	143	11.89	1.7 (0.9, 3.4)	1.7 (0.9, 3.4)	0.1201	2.0 (1.0, 3.9)	0.0520
P for linear trend							0.0355

*adjusted for age, BMI, race, education, occupation, injury/surgery, estrogen use, clinical site. New KR was considered to be incident ROA.

Appendix Table A3: Parity and 30-month incident KR, with zero births as referent.

Number of Births	Total # Knees	% With incident KR	Crude	Age, BMI, race-Adj.		Multi-Adj.*	
			RR	RR	p-value	RR	p-value
0 (ref)	417	1.44	1.0	1.0		1.0	0.5983
1	358	1.96	1.4 (0.5, 4.4)	1.4 (0.4, 4.6)	0.5540	0.6 (0.1, 3.9)	0.5983
2	1013	3.26	2.3 (1.0, 5.5)	2.5 (1.0, 6.1)	0.0419	1.8 (0.8, 4.2)	0.1715
3	732	5.19	3.7 (1.5, 8.8)	3.5 (1.4, 8.4)	0.0056	2.3 (1.0, 5.4)	0.0536
4	373	3.75	2.7 (1.0, 7.2)	2.4 (0.9, 6.7)	0.0884	1.9 (0.7, 5.1)	0.1992
5-12	298	5.70	4.0 (1.5, 10.2)	3.2 (1.2, 8.4)	0.0215	2.4 (0.9, 6.2)	0.0781
P for linear trend							0.0164

*adjusted for age, BMI, race, education, occupation, WOMAC knee pain, pain medication, estrogen use, clinical site

Appendix Table A4. Parity reported at 30M and loss to follow-up at 60M clinic visit among women who had parity information reported

Eligible subjects: all women who came to 30M clinic visit and reported parity information

Parity reported at 30M visit	N of women	N(%) of women <u>lost to follow-up at 60M</u>	binary regression model - crude		binary regression model – adj. age, BMI, race, clinic site	
			RR of <u>loss to follow-up at 60M</u> (95% CI)	p-value	RR of <u>loss to follow-up at 60M</u> (95% CI)	p-value
0	205	26 (12.68)	1.0		1.0	
1	179	24 (13.41)	1.1 (0.6,1.8)	0.8332	1.1 (0.6,1.8)	0.8152
2	506	71 (14.03)	1.1 (0.7,1.7)	0.6364	1.1 (0.7,1.7)	0.5822
3	362	56 (15.47)	1.2 (0.8,1.9)	0.3680	1.2 (0.7,1.8)	0.5187
4	188	26 (13.83)	1.1 (0.7,1.8)	0.7375	1.0 (0.6,1.7)	0.9868
5-12	144	26 (18.06)	1.4 (0.9,2.3)	0.1663	1.2 (0.7,2.0)	0.5213