

Appendix 3. Association Between Dietary Folate and Fertilization Rates Stratified by In Vitro Fertilization and Intracytoplasmic Sperm Injection Among 222 Women (289 fresh Assisted Reproductive Technology Cycles With Egg Retrieval) From the Environment and Reproductive Health Study

Quartile (median, µg/day)	Fertilization Rate		
	All cycles n=289 cycles	IVF cycles n=133	ICSI cycles n=155
	Adjusted Mean (95% CI)		
Total Folate (in DFE)			
Q1 (<1262)	0.70 (0.64, 0.75)	0.65 (0.54, 0.74)	0.75 (0.67, 0.81)
Q2 (1262-1778)	0.69 (0.63, 0.74)	0.67 (0.57, 0.76)	0.69 (0.60, 0.77)
Q3 ((1779-2352)	0.72 (0.67, 0.78)	0.73 (0.63, 0.81)	0.71 (0.62, 0.79)
Q4 (>2352)	0.76 (0.71, 0.81)	0.77 (0.67, 0.84)	0.76 (0.69, 0.82)
P trend	0.06	0.04	0.65
Supplemental Folate			
Q1 (<400)	0.68 (0.62, 0.73)	0.62 (0.51, 0.71)	0.74 (0.65, 0.81)
Q2 (400-543)	0.70 (0.65, 0.75)	0.68 (0.59, 0.77)	0.70 (0.63, 0.78)
Q3 (544-800)	0.73 (0.67, 0.78)	0.74 (0.63, 0.82)	0.71 (0.63, 0.78)
Q4 (>800)	0.76 (0.71, 0.80)*	0.77 (0.69, 0.84)*	0.75 (0.68, 0.83)
P trend	0.03	0.02	0.75
Food Folate			
Q1 (<371)	0.68 (0.62, 0.74)	0.60 (0.48, 0.71)	0.71 (0.63, 0.78)
Q2 (372-436)	0.74 (0.68, 0.79)	0.77 (0.67, 0.84)	0.75 (0.67, 0.82)
Q3 (437-534)	0.75 (0.69, 0.80)	0.75 (0.66, 0.83)	0.74 (0.65, 0.81)
Q4 (>534)	0.71 (0.65, 0.76)	0.69 (0.59, 0.77)	0.72 (0.64, 0.80)
P trend	0.78	0.66	0.95

Data are predicted marginal means adjusted for total calorie intake, age, BMI, race, smoking status, infertility diagnosis, and protocol type, unless otherwise specified.

ART, assisted reproductive technology; DFE, dietary folate equivalents; ICSI, intra-cytoplasmic sperm injection; IVF, in vitro fertilization. All analyses were run using generalized linear mixed models with random intercepts, binomial distribution, and logit link function.

*Indicates a p-value < 0.05 comparing that quartile vs. first quartile.