

Supplemental table 1 Men's dairy intake in relation to rates of clinical outcomes in IVF and ICSI cycles (per initiated cycle) from the EARTH Study

	Implantation rate		Clinical pregnancy rate		Live birth rate	
	Conventional IVF	ICSI	Conventional IVF	ICSI	Conventional IVF	ICSI
Number of cycles	85	99	85	99	85	99
Quartile intake of total dairy						
Q1 [0.00-1.31]	0.76 (0.35, 0.95)	0.52 (0.19, 0.83)	0.74 (0.33, 0.95)	0.46 (0.19, 0.77)	0.37 (0.10, 0.75)	0.40 (0.13, 0.74)
Q2 [1.44-1.81]	0.88 (0.48, 0.98)	0.13 (0.03, 0.42)	0.86 (0.45, 0.98)	0.12 (0.03, 0.38)	0.64 (0.24, 0.91)	0.11 (0.02, 0.39)
Q3 [1.86-2.73]	0.68 (0.35, 0.90)	0.57 (0.27, 0.82)	0.58 (0.25, 0.85)	0.55 (0.29, 0.79)	0.31 (0.10, 0.65)	0.46 (0.20, 0.73)
Q4 [2.75-5.77]	0.80 (0.38, 0.96)	0.40 (0.13, 0.74)	0.73 (0.30, 0.94)	0.33 (0.12, 0.65)	0.72 (0.29, 0.94)	0.32 (0.10, 0.66)
P trend	0.90	0.95	0.71	0.86	0.39	0.95
Quartile intake of full-fat dairy						
Q1 [0.00-0.59]	0.67 (0.28, 0.92)	0.23 (0.05, 0.61)	0.65 (0.26, 0.91)	0.23 (0.06, 0.57)	0.29 (0.07, 0.67)	0.15 (0.03, 0.49)
Q2 [0.61-1.04]	0.91 (0.56, 0.99)	0.36 (0.11, 0.71)	0.87 (0.48, 0.98)	0.37 (0.14, 0.69)	0.62 (0.24, 0.89)	0.38 (0.13, 0.70)
Q3 [1.06-1.67]	0.71 (0.36, 0.92)	0.44 (0.15, 0.78)	0.68 (0.32, 0.91)	0.44 (0.17, 0.75)	0.42 (0.16, 0.74)	0.35 (0.12, 0.68)
Q4 [1.76-5.45]	0.88 (0.42, 0.99)	0.57 (0.24, 0.84)	0.79 (0.30, 0.97)	0.47 (0.21, 0.75)	0.75 (0.30, 0.95)	0.41 (0.16, 0.71)
P trend	0.78	0.16	0.91	0.27	0.28	0.31
Quartile intake of low-fat dairy						
Q1 [0.00-0.24]	0.79 (0.28, 0.97)	0.62 (0.29, 0.87)	0.73 (0.23, 0.96)	0.57 (0.27, 0.82)	0.47 (0.10, 0.88)	0.47 (0.20, 0.76)
Q2 [0.28-0.63]	0.66 (0.28, 0.90)	0.27 (0.07, 0.63)	0.63 (0.26, 0.89)	0.29 (0.09, 0.62)	0.38 (0.12, 0.74)	0.29 (0.09, 0.63)
Q3 [0.63-1.10]	0.74 (0.39, 0.93)	0.36 (0.12, 0.70)	0.61 (0.26, 0.87)	0.34 (0.13, 0.64)	0.43 (0.15, 0.75)	0.28 (0.10, 0.59)
Q4 [1.20-3.54]	0.88 (0.50, 0.98)	0.30 (0.07, 0.72)	0.86 (0.48, 0.98)	0.27 (0.07, 0.66)	0.67 (0.25, 0.93)	0.27 (0.06, 0.66)
P trend	0.35	0.40	0.40	0.33	0.37	0.42

Abbreviations: ICSI, intra-cytoplasmic sperm injection; IVF, in vitro fertilization. BMI=body mass index

Model adjusted for total energy intake, age, BMI, alcohol, caffeine, smoking status, total exercise time, Prudent dietary pattern, Western dietary pattern, and female dairy intake.

Tests for trend were performed using the median level of dairy in each quartile as a continuous variable in the model.

Supplemental table 2 Men's dairy intake in relation to rates of clinical outcomes in IVF and ICSI cycles (per embryo transfer) from the EARTH Study

	Implantation rate		Clinical pregnancy rate		Live birth rate	
	Conventional IVF	ICSI	Conventional IVF	ICSI	Conventional IVF	ICSI
Number of cycles	83	96	83	96	83	96
Quartile intake of total dairy						
Q1 [0.00-1.31]	0.75 (0.32, 0.95)	0.52 (0.20, 0.82)	0.73 (0.30, 0.95)	0.47 (0.20, 0.76)	0.36 (0.10, 0.75)	0.40 (0.14, 0.73)
Q2 [1.44-1.81]	0.90 (0.51, 0.99)	0.14 (0.03, 0.43)	0.88 (0.47, 0.98)	0.13 (0.04, 0.39)	0.66 (0.25, 0.92)	0.13 (0.03, 0.43)
Q3 [1.86-2.73]	0.69 (0.35, 0.91)	0.57 (0.28, 0.82)	0.59 (0.26, 0.86)	0.56 (0.31, 0.79)	0.32 (0.10, 0.67)	0.46 (0.22, 0.72)
Q4 [2.75-5.77]	0.80 (0.38, 0.96)	0.42 (0.15, 0.75)	0.73 (0.30, 0.94)	0.36 (0.14, 0.66)	0.72 (0.30, 0.94)	0.34 (0.11, 0.67)
P trend	0.95	0.99	0.74	0.91	0.37	0.89
Quartile intake of full-fat dairy						
Q1 [0.00-0.59]	0.68 (0.28, 0.92)	0.26 (0.07, 0.63)	0.65 (0.26, 0.91)	0.25 (0.07, 0.60)	0.29 (0.07, 0.68)	0.18 (0.04, 0.52)
Q2 [0.61-1.04]	0.91 (0.54, 0.99)	0.34 (0.11, 0.68)	0.86 (0.47, 0.98)	0.36 (0.13, 0.67)	0.62 (0.24, 0.89)	0.38 (0.14, 0.69)
Q3 [1.06-1.67]	0.73 (0.37, 0.92)	0.41 (0.14, 0.75)	0.70 (0.33, 0.92)	0.42 (0.16, 0.73)	0.44 (0.16, 0.76)	0.33 (0.12, 0.66)
Q4 [1.76-5.45]	0.87 (0.40, 0.99)	0.63 (0.29, 0.87)	0.79 (0.29, 0.97)	0.51 (0.24, 0.78)	0.75 (0.30, 0.95)	0.45 (0.19, 0.74)
P trend	0.76	0.11	0.90	0.21	0.28	0.27
Quartile intake of low-fat dairy						
Q1 [0.00-0.24]	0.76 (0.26, 0.97)	0.60 (0.27, 0.86)	0.71 (0.21, 0.96)	0.55 (0.26, 0.81)	0.46 (0.10, 0.87)	0.45 (0.19, 0.74)
Q2 [0.28-0.60]	0.66 (0.28, 0.90)	0.29 (0.08, 0.66)	0.63 (0.26, 0.89)	0.31 (0.10, 0.65)	0.39 (0.12, 0.75)	0.32 (0.10, 0.66)
Q3 [0.63-1.10]	0.77 (0.41, 0.94)	0.42 (0.15, 0.75)	0.64 (0.28, 0.89)	0.39 (0.15, 0.69)	0.45 (0.16, 0.77)	0.33 (0.12, 0.65)
Q4 [1.20-3.54]	0.88 (0.51, 0.98)	0.28 (0.06, 0.70)	0.86 (0.48, 0.98)	0.25 (0.06, 0.65)	0.68 (0.26, 0.93)	0.25 (0.06, 0.65)
P trend	0.29	0.38	0.35	0.31	0.34	0.42

Abbreviations: ICSI, intra-cytoplasmic sperm injection; IVF, in vitro fertilization. BMI=body mass index

Model adjusted for total energy intake, age, BMI, alcohol, caffeine, smoking status, total exercise time, Prudent dietary pattern, Western dietary pattern, and female dairy intake.

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