

eTable: Association between patient and treatment characteristics and the likelihood of livebirth (Adjusted odds ratios^{*} (95% confidence intervals)) from four regression models (n = 2318 couples, 3913 IVF cycles), with additional adjustment for all covariates evaluated.

Covariate	First cycle only [†]	Discrete survival [‡]	GEE [#]	Mixed effects**
Previous livebirth				
No	1.00 (referent)	1.00 (referent)	1.00 (referent)	1.00 (referent)
Yes	1.45 (1.14,1.84)	1.31 (1.09,1.58)	1.34 (1.10,1.63)	1.40 (1.06,1.83)
Female age				
<35 years	1.00 (referent)	1.00 (referent)	1.00 (referent)	1.00 (referent)
35-37 years	0.92 (0.70,1.22)	0.96 (0.78,1.18)	0.97 (0.78,1.21)	0.98 (0.77,1.24)
38-40 years	0.57 (0.41,0.80)	0.63 (0.49,0.80)	0.63 (0.48,0.81)	0.61 (0.42,0.88)
>40 years	0.24 (0.15,0.39)	0.23 (0.16,0.33)	0.24 (0.16,0.34)	0.21 (0.09,0.48)
Primary Diagnosis				
Idiopathic	1.00 (referent)	1.00 (referent)	1.00 (referent)	1.00 (referent)
Male	1.23 (0.92,1.65)	1.09 (0.88,1.35)	1.08 (0.87,1.35)	1.14 (0.88,1.46)
Female	0.91 (0.70,1.17)	0.93 (0.77,1.13)	0.92 (0.76,1.13)	0.92 (0.74,1.15)
Gonadotrop. dose/10	0.84 (0.77,0.91)	0.90 (0.85,0.94)	0.89 (0.85,0.94)	0.86 (0.79,0.94)
Down regulation				
No	1.00 (referent)	1.00 (referent)	1.00 (referent)	1.00 (referent)
Yes	1.34 (1.00,1.80)	1.25 (1.02,1.52)	1.30 (1.06,1.58)	1.36 (1.04,1.78)
ICSI	0.79 (0.60,1.04)	0.93 (0.77,1.14)	0.93 (0.77,1.13)	0.85 (0.68,1.08)
Embryos transferred	1.29 (1.16,1.43)	1.23 (1.15,1.32)	1.22 (1.15,1.30)	1.21 (1.07,1.37)
Cycle # (Cox only)				
Cycle 1		1.00 (referent)		
Cycle 2		0.86 (0.72,1.03)		
Cycle 3		0.68 (0.52,0.89)		
Cycle 4		0.69 (0.47,1.02)		
Cycle 5		0.59 (0.31,1.10)		
Cycle 6		---		
Male age				
<35 years	1.00 (referent)	1.00 (referent)	1.00 (referent)	1.00 (referent)
35-37 years	0.92 (0.70,1.21)	1.04 (0.85,1.28)	1.03 (0.83,1.28)	1.05 (0.83,1.33)
38-40 years	0.86 (0.63,1.18)	0.80 (0.63,1.02)	0.80 (0.62,1.03)	0.78 (0.58,1.04)
>40 years	0.85 (0.61,1.17)	0.86 (0.67,1.10)	0.85 (0.66,1.10)	0.84 (0.63,1.13)
BMI				
<20	1.00 (referent)	1.00 (referent)	1.00 (referent)	1.00 (referent)
20-24.9	1.08 (0.81,1.45)	1.11 (0.89,1.38)	1.11 (0.89,1.39)	1.14 (0.88,1.47)
25-29.9	1.02 (0.72,1.45)	1.13 (0.87,1.46)	1.11 (0.85,1.46)	1.16 (0.85,1.57)
≥30	1.06 (0.70,1.60)	1.05 (0.76,1.43)	1.05 (0.76,1.45)	1.09 (0.76,1.56)
Cycle E2/1000	1.03 (0.89,1.19)	1.00 (0.90,1.12)	1.01 (0.91,1.13)	1.01 (0.90,1.15)

Oocytes retrieved	1.00 (0.98, 1.02)	1.00 (0.99, 1.02)	1.00 (0.99,1.02)	1.00 (0.99,1.02)
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* All models were also adjusted for clinic site and study enrollment period.

† Multivariate logistic regression using first-cycle data only, n = 2092 couples, 2092 cycles.

‡ Discrete survival, a.k.a. Cox proportional odds model, fit using Proc Logistic including cycle number as a class variable.

Generalized estimating equations, using empirical estimates for standard errors and exchangeable working correlation, fit using Proc Genmod.

** Mixed effects model, using the logit link and Gaussian random intercept, fit using Proc NL Mixed.