

human reproduction **SUPPLEMENTARY DATA**

Supplementary Table S1 Multivariable regression models for cumulative live birth rate.

Variables	Model 1			Model 2		
	Best-fit FP	aOR (95% CI)	P-value	Best-fit FP	aOR (95% CI)	P-value
Female age						
Per year	FP2 (3; 3)*	1.47 (1.37–1.58) 0.77 (0.74–0.80)	<0.001	FP2 (3; 3)*	1.47 (1.37–1.57) 0.77 (0.74–0.80)	<0.001
Female BMI kg/m ²						
<18.5	Categorical	0.94 (0.78–1.15)	0.570	Linear	0.98 (0.97–0.99)	<0.001
18.5–24.9		Reference	–			
25.0–29.9		0.87 (0.78–0.97)	0.014			
≥30.0		0.75 (0.63–0.90)	<0.001			
Female smoking habits						
No	Categorical	Reference	–	Categorical	Reference	–0.333
Current		1.05 (0.95–1.17)	0.329		1.05 (0.95–1.16)	
Passed		1.08 (0.89–1.31)	0.433		1.08 (0.89–1.31)	0.434
Male age						
Per year	Linear	0.99 (0.98–1.00)	0.048	Linear	0.99 (0.98–1.00)	0.045
Infertility diagnoses						
Ovulatory factor	Categorical	0.78 (0.71–0.86)	<0.001	Categorical	0.78 (0.71–0.86)	<0.001
Tubal factor	Categorical	0.91 (0.78–1.05)	0.200	Categorical	0.91 (0.78–1.06)	0.211
Uterine factor	Categorical	0.75 (0.59–0.95)	0.015	Categorical	0.75 (0.59–0.94)	0.015
Endometriosis	Categorical	0.93 (0.80–1.08)	0.344	Categorical	0.93 (0.80–1.08)	0.335
Other female diagnoses	Categorical	0.54 (0.40–0.72)	<0.001	Categorical	0.54 (0.40–0.72)	<0.001
Male factor infertility	Categorical	0.93 (0.85–1.02)	0.109	Categorical	0.93 (0.85–1.02)	0.112
Oocytes retrieved						
Per oocyte	FP (–2; 0.5)*	0.93 (0.91–0.96) 3.69 (3.04–4.48)	<0.001	FP (–2; 0.5)*	0.93 (0.91–0.96) 3.69 (3.04–4.47)	<0.001
Day of start of treatment						
Per day	Linear	1.00 (1.00–1.00)	0.173	Linear	1.00 (1.00–1.00)	0.148
Treatment centre						
Centre 1	Categorical	Reference	–	Categorical	Reference	–
Centre 2		0.40 (0.15–1.07)	0.068		0.41 (0.15–1.10)	0.077
Centre 3		0.77 (0.28–2.10)	0.605		0.78 (0.29–2.15)	0.634
Centre 4		0.78 (0.30–2.03)	0.609		0.80 (0.31–2.08)	0.648
Centre 5		0.66 (0.25–1.72)	0.393		0.67 (0.26–1.77)	0.423
Centre 6		0.60 (0.23–1.59)	0.302		0.61 (0.23–1.63)	0.327
Centre 7		0.77 (0.29–2.00)	0.586		0.79 (0.30–2.05)	0.622
Centre 8		0.90 (0.35–2.33)	0.829		0.92 (0.35–2.39)	0.864
Centre 9		0.50 (0.18–1.39)	0.181		0.51 (0.18–1.41)	0.195
Centre 10		0.68 (0.26–1.80)	0.443		0.70 (0.27–1.86)	0.477
Centre 11		0.56 (0.20–1.56)	0.270		0.57 (0.21–1.59)	0.285
Centre 12		0.48 (0.16–1.45)	0.195		0.49 (0.16–1.47)	0.203
Centre 13		0.73 (0.28–1.92)	0.523		0.75 (0.29–1.97)	0.557

(continued)

Supplementary Table SI Continued

Variables	Model 1			Model 2		
	Best-fit FP	aOR (95% CI)	P-value	Best-fit FP	aOR (95% CI)	P-value
Centre 14		0.66 (0.25–1.70)	0.387		0.67 (0.26–1.75)	0.418
Centre 15		0.71 (0.27–1.85)	0.478		0.73 (0.28–1.91)	0.517
Centre 16		1.11 (0.42–2.95)	0.830		1.13 (0.43–3.01)	0.800

BMI was added in the model either as an ordinal categorical variable (Model 1) or as a continuous variable (Model 2). Female age and number of oocytes retrieved were added to the model as the best-fitting FP. aOR, adjusted odds-ratio; FP, fractional polynomial; FP2, second-degree fractional polynomial (powers).

*FP scaled at $\times 10$.