Supplementary Tables

Supplementary Table 1. Socio-demographic characteristics of the study participants by payment type.

Variable	Publicly funded, n=112	Self-paid, n=237	p-value	Unknown, n=97
Age (years), mean±SD	34.2±4.8	34.2±5.9	0.99	32.1±5.7
BMI, n(%)				
Underweight	12 (10.8%)	32 (13.9%)	0.62	0 (0%)
Normal	69 (62.2%)	132 (57.1%)		44 (74.6%)
Overweight/Obese	30 (27.0%)	67 (29.0%)		15 (25.4%)
Education level, n(%)				
ISCED 4	39 (34.8%)	47 (20.0%)	< 0.01	34 (35.1%)
ISCED 5	27 (24.1%)	90 (38.3%)		7 (7.2%)
ISCED 6	46 (41.1%)	98 (41.7%)		57.7%)
Location, n(%)				
Aktobe	41 (36.6%)	26 (11.0%)	< 0.001	0 (0%)
Almaty	3 (2.7%)	96 (40.5%)		0 (0%)
Nur-Sultan	68 (60.7%)	115 (48.5%)		0 (0%)
Shymkent	0 (0%)	0 (0%)		97 (100%)
Shymkent	0 (0%)	0 (0%)		97 (100%)

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Unknown,

p-value

Self-paid, n=237

	funded, n=112	~~~, · · · · · · · · · · · · · · · · · ·	P	n=97
Comorbidity, n(%)	10 (12 707)	125 (52 707)	0.12	0(007)
Yes	49 (43.7%)	125 (52.7%)	0.12	0 (0%)
No	63 (56.3%)	112 (47.3%)		97 (100%)
Infertility duration (years)				
Mean±SD	6.6±3.6	5.1±3.9	< 0.01	7.0 ± 3.9
Median (IQR)	6 (4-8)	4 (3-7)		6 (4-9.5)
Number of previous deliveries, n(%)				
None	87 (77.7%)	150 (63.5%)	< 0.01	61 (63.5%)
One	24 (21.4%)	62 (26.3%)		26 (27.1%)
Two or more	1 (0.9%)	24 (10.2%)		9 (9.4%)
Number of previous miscarriages, n(%)				
None	100 (89.3%)	205 (86.9%)	0.52	79 (82.3%)
One or more	12 (10.7%)	31 (13.1%)		17 (17.7%)
Number of previous intentional				
pregnancy interruptions, n(%)				
None	101 (90.2%)	209 (88.6%)	0.65	94 (97.9%)
One or more	11 (9.8%)	27 (11.4%)		2 (2.1%)
Number of previous IVF cycles, n(%)				
None	84 (75.7%)	184 (78.6%)	0.03	67 (69.1%)
One	20 (18.0%)	22 (9.4%)		25 (25.8%)
2 or more	7 (6.3%)	28 (12.0%)		5 (5.1%)
Cause of infertility, n(%)				
Female	35 (31.2%)	106 (45.3%)	< 0.01	77 (80.2%)
Male	6 (5.4%)	22 (9.4%)		13 (13.5%)
Mixed	71 (63.4%)	106 (45.3%)		6 (6.3%)

Supplementary Table 2. Past and current medical history of infertility of the study participants by payment type.

Publicly

Variable

Variable		Publicly funded, n=112	Self-paid, n=237	p-value	Unknown, n=97
Number of oocytes retrieved					
Mean±SD		10.2±8.0	10.3±8.1	0.87	11.2±8.8
Median (IQR)		9 (4-14)	9 (4-14)		9 (4-14)
Number of embryos transferred	đ				
Mean±SD		1.6 ± 1.0	1.5 ± 0.8	0.93	4.5±4.8
Median (IQR)		2 (1-2)	2 (1-2)		2 (1-6)
Used protocol, n(%)					
Classic-long		7 (6.6%)	28 (12.0%)	0.09	1 (1.0%)
Classic-short		94 (89.5%)	189 (80.8%)		96 (99.0%)
Non-classic – natural cycle		2 (1.9%)	5 (2.1%)		0 (0%)
Non-classic – ultrashort		1 (1.0%)	12 (5.1%		0 (0%)
Non-classic – stimulated in luteal phase		1 (1.0%)	0 (0%)		0 (0%)
lucui pluse					
Clinical pregnancy, n (%)					
Y	es	51 (53.1%)	146 (65.2%)	0.04	19 (70.4%)
I	No	45 (46.9%)	78 (34.8%)		8 (29.6%)
Miscarriage, n(%)					
Ŷ	es	0 (0%)	1 (0.4%)	1.00	0 (0%)
1	No	102 (100%)	225 (99.6%)		24 (100%)
Multiple pregnancies, n(%)					
Ŷ	es	1 (1.0%)	3 (1.3%)	1.00	0 (0%)
1	No	103 (99.0%)	226 (98.7%)		89 (100%)

Supplementary Table 3. IVF treatment characteristics of the study participants by payment type.

Supplementary Table 4. Socio-demographic characteristics of the study participants by IVF clinical pregnancy status.

Variable	Pregnant, n=216	Not pregnant, n=131	p-value	Unknown, n=99
Age (years), mean±SD	33.7±5.9	34.5±5.2	0.21	33.0
BMI, n(%)				
Underweight	38 (18.2%)	4 (3.2%)	< 0.001	2 (3.0%)
Normal	130 (62.2%)	74 (58.7%)		41 (62.1%)
Overweight/Obese	41 (19.6%)	48 (38.1%)		23 (34.9%)
Education level, n(%)				
ISCED 4	49 (38.0%)	40 (18.5%)	< 0.001	31 (31.3%)
ISCED 5	30 (23.3%)	81 (37.5%)		13 (13.1%)
ISCED 6	50 (38.7%)	95 (44.0%)		55 (55.6%)
Location, n(%)				
Aktobe	31 (23.7%)	26 (12.0%)	0.02	10 (10.1%)
Almaty	38 (29.0%)	59 (27.3%)		2 (2.0%)
Nur-Sultan	54 (41.2%)	112 (51.9%)		17 (17.2%)
Shymkent	8 (6.1%)	19 (8.8%)		70 (70.7%)
Type of payment, n(%)				
State-funded	51 (25.9%)	45 (36.6%)	0.04	16 (55.2%)
Self-paid	146 (74.1%)	78 (63.4%)		13 (44.8%)

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Unknown,

p-value

Not pregnant,

Variable	n-216	not pregnant,	p-value	n=99
	n=216	n=131		11=99
Comorbidity, n(%)				
Yes	76 (35.2%)	80 (61.1%)	< 0.001	18 (18.2%)
No	140 (64.8%)	51 (38.9%)		81 (81.8%)
Infertility duration (years)				
Mean±SD	5.4±3.7	6.1±4.0	0.13	6.7±3.9
Median (IQR)	4.8 (3-7)	5 (3-8)		6.5 (4-9)
Number of previous deliveries, n(%)				
None	144 (66.7%)	90 (69.2%)	0.29	64 (65.3%)
One	50 (23.1%)	33 (25.4%)		29 (29.6%)
Two or more	22 (10.2%)	7 (5.4%)		5 (5.1%)
Number of previous miscarriages, n(%)				
None	190 (88.0%)	111 (85.4%)	0.49	83 (84.7%)
One or more	26 (12.0%)	19 (14.6%)		15 (15.3%)
Number of previous intentional				
pregnancy interruptions, n(%)				
None	198 (91.7%)	116 (89.2%)	0.45	90 (91.8%)
One or more	18 (8.3%)	14 (10.8%)		8 (8.2%)
Number of previous IVF cycles, n(%)				
None	179 (83.4%)	90 (68.7%)	< 0.01	66 (68.7%)
One	18 (8.4%)	26 (19.8%)		23 (24.0%)
2 or more	18 (8.4%)	15 (11.5%)		7 (7.3%)
Cause of infertility, n(%)				
Female	97 (45.1%)	55 (42.3%)	0.32	66 (68.0%)
Male	16 (7.4%)	16 (12.3%)		9 (9.3%)
Mixed	102 (47.4%)	59 (45.4%)		22 (22.7%)

Supplementary Table 5. Past and current medical history of infertility of the study participants by IVF clinical pregnancy status.

Pregnant,

Variable

Variable	Pregnant, n=216	Not pregnant, n=131	p-value	Unknown, n=99
Number of oocytes retrieved				
Mean±SD	11.2±7.8	8.5±7.9	< 0.01	11.6±9.4
Median (IQR)	10 (6-14)	7 (2-13)		6 (4-17)
Number of embryos transferred				
Mean±SD	1.7 ± 0.8	1.7±1.9	0.10	4.7±4.9
Median (IQR)	2 (1-2)	1 (1-2)		2 (1-6.5)
Used protocol, n(%)				
Classic-long	23 (10.7%)	11 (8.4%)	0.27	2 (2.2%)
Classic-short	177 (82.3%)	114 (87.0%)		88 (97.8%)
Non-classic – natural cycle	4 (1.9%)	3 (2.3%)		0 (0%)
Non-classic – ultrashort	11 (5.1%)	2 (1.5%)		0 (0%)
Non-classic – stimulated in luteal phase	0 (0%)	1 (0.8%)		0 (0%)

Supplementary Table 6. IVF treatment characteristics of the study participants by IVF clinical pregnancy status.

Supplementary Table 7. Simple and multiple Poisson regression analyses of clinical setting and payment type predicting IVF clinical pregnancy (sensitivity analysis, excluding women from Astana private clinic (n=108) with the highest pregnancy rate).

	Clinical pregnancy			
Scales	Crude RR (95% CI)	&Adjusted RR (95% CI)		
		Model A		
Public clinics	0.47 (0.32; 0.70)*	0.54 (0.39; 0.75)*		
		Model B		
Public clinics	0.47 (0.32; 0.70)*	0.43 (0.27; 0.69)*		
Publicly funded	0.80 (0.51; 1.25)	1.44 (0.90; 2.32)		
	Model C			
	^{&} Adjusted RR (95% CI)			
	Publicly funded	Self-paid		
Public clinics	0.87 (0.32; 2.34)	0.34 (0.19; 0.63)		

[&] Each of the models was adjusted for age, BMI, education, comorbidity, cause of infertility, infertility duration, number of previous IVF cycles, number of embryos transferred, and number of oocytes retrieved.

*p<0.05

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