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RECEIVED 28 February 2025

ACCEPTED 05 March 2025

PUBLISHED 27 March 2025

## CITATION

Ouyang Y, Peng Y, Zheng M, Mao Y, Gong F, Li Y, Chen H and Li X (2025) Corrigendum: The impact of intrauterine adhesions on endometrial receptivity in patients undergoing *in vitro* fertilization-embryo transfer. *Front. Endocrinol.* 16:1585477. doi: 10.3389/fendo.2025.1585477

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# Corrigendum: The impact of intrauterine adhesions on endometrial receptivity in patients undergoing *in vitro* fertilization-embryo transfer

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## KEYWORDS

endometrial receptivity, intrauterine adhesion, frozen-thawed embryo transfer, natural cycle, ovulation day, transvaginal sonography

## A Corrigendum on

### The impact of intrauterine adhesions on endometrial receptivity in patients undergoing *in vitro* fertilization-embryo transfer

by Ouyang Y, Peng Y, Zheng M, Mao Y, Gong F, Li Y, Chen H and Li X (2025) *Front. Endocrinol.* 15:1489839. doi: 10.3389/fendo.2024.1489839

In the published article, there were errors in **Tables 1, 2** as published. The corrected **Tables 1, 2** and their captions “Table 1 Comparisons of characteristics and ultrasound parameters on the day of ovulation/Table 2 Comparisons of characteristics and ultrasound parameters on the day of ovulation between the mild- and moderate-severe IUA groups” appear below.

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

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TABLE 1 Comparisons of characteristics and ultrasound parameters on the day of ovulation.

Variable	Non-IUAs			IUAs			p value				
	1	2	3	4	5	6	1 vs. 4	2 vs. 3	5 vs. 6	2 vs. 5	3 vs. 6
	Overall	Nonpregnant group	Pregnant group	Overall	Nonpregnant group	Pregnant group					
Cycles	417	116	301	175	62	113					
<b>Baseline characteristics</b>											
Age (years)	30.22 ± 3.17	30.19 ± 3.34	30.23 ± 3.12	30.34 ± 2.84	30.56 ± 2.72	30.22 ± 2.90	0.911	0.814	0.447	0.641	0.786
Duration of infertility (years)	3.59 ± 2.35	3.93 ± 2.91	3.47 ± 2.11	2.91 ± 1.88	2.84 ± 1.88	2.94 ± 1.89	<0.001	0.368	0.693	0.012	0.017
BMI (kg/m <sup>2</sup> )	21.20 ± 1.71	21.00 ± 1.74	21.28 ± 1.69	20.94 ± 1.67	20.99 ± 1.49	20.91 ± 1.77	0.067	0.082	0.605	0.903	0.034
Number of oocyte retrieval cycles	1.14 ± 0.37	1.21 ± 0.43	1.11 ± 0.35	1.17 ± 0.42	1.18 ± 0.43	1.16 ± 0.41	0.555	0.011	0.737	0.535	0.301
AFC	18.18 ± 14.57	15.03 ± 11.85	19.32 ± 15.29	19.57 ± 14.38	15.60 ± 17.07	21.74 ± 12.21	0.190	0.024	<0.001	0.476	0.022
FSH	5.62 ± 2.31	6.19 ± 2.94	5.42 ± 2.01	5.88 ± 2.03	6.08 ± 2.00	5.77 ± 2.05	0.098	0.001	0.327	0.935	0.075
LH	5.34 ± 10.96	6.25 ± 11.54	5.01 ± 10.75	5.05 ± 6.02	5.53 ± 7.26	4.79 ± 5.24	0.014	0.107	0.782	0.401	0.023
AMH	4.92 ± 3.78	4.88 ± 3.39	4.94 ± 3.92	5.14 ± 3.63	4.91 ± 3.97	5.26 ± 3.44	0.354	0.701	0.152	0.534	0.102
<b>Ultrasound indicators on the day of ovulation</b>											
Endometrial morphology classification							<0.001	0.66	0.034	<0.001	<0.001
Type A	25 (6.0%)	6 (5.2%)	19 (6.3%)	43 (25%)	21 (34%)	22 (19%)					
Type B+Type C	392 (94%)	110 (95%)	282 (94%)	132 (75%)	41 (66%)	91 (81%)					
Endometrial blood flow classification							0.070	0.780	0.197	0.026	0.702
I	37 (8.9%)	10 (8.6%)	27 (9.0%)	23 (13%)	11 (18%)	12 (11%)					
II	330 (79%)	90 (78%)	240 (80%)	140 (80%)	49 (79%)	91 (81%)					
III	50 (12%)	16 (14%)	34 (11%)	12 (6.9%)	2 (3.2%)	10 (8.8%)					
Endometrial thickness (mm)	11.21 ± 2.08	11.29 ± 2.23	11.18 ± 2.02	9.53 ± 1.93	9.57 ± 2.41	9.50 ± 1.62	<0.001	0.613	0.767	<0.001	<0.001
<8	12 (2.9%)	4 (3.4%)	8 (2.7%)	34 (19%)	20 (32%)	14 (12%)					
≥8	405 (97%)	112 (97%)	293 (97%)	141 (81%)	42 (68%)	99 (88%)	<0.001	0.745	0.001	<0.001	<0.001

(Continued)

TABLE 1 Continued

Variable	Non-IUAs			IUAs			p value				
	1 Overall	2 Nonpregnant group	3 Pregnant group	4 Overall	5 Nonpregnant group	6 Pregnant group	1 vs. 4	2 vs. 3	5 vs. 6	2 vs. 5	3 vs. 6
	Ultrasound indicators on the day of ovulation										
Endometrial volume (ml)	4.21 ± 1.72	4.11 ± 1.81	4.24 ± 1.69	2.89 ± 1.45	2.63 ± 1.41	3.03 ± 1.46	<0.001	0.415	0.049	<0.001	<0.001
<2	26 (6.2%)	9 (7.8%)	17 (5.6%)	57 (33%)	28 (45%)	29 (26%)					
≥2	391 (94%)	107 (92%)	284 (94%)	118 (67%)	34 (55%)	84 (74%)	<0.001	0.424	0.008	<0.001	<0.001
Frequency of endometrial peristalsis (time/min)	2.85 ± 1.39	2.87 ± 1.48	2.84 ± 1.36	1.79 ± 1.42	1.57 ± 1.34	1.91 ± 1.46	<0.001	0.767	0.127	<0.001	<0.001
<2	67 (16%)	21 (18%)	46 (15%)	83 (47%)	35 (56%)	48 (42%)					
≥2	349 (84%)	95 (82%)	254 (85%)	92 (53%)	27 (44%)	65 (58%)	<0.001	0.491	0.077	<0.001	<0.001
Endometrial VI	2.13 ± 2.96	2.19 ± 2.67	2.10 ± 3.06	1.95 ± 2.79	1.85 ± 2.28	2.00 ± 3.05	0.228	0.458	0.349	0.126	0.696
Endometrial FI	28.04 ± 6.71	28.86 ± 6.33	27.72 ± 6.83	28.83 ± 6.10	27.92 ± 6.63	29.33 ± 5.75	0.509	0.426	0.041	0.224	0.078
Endometrial VFI	0.81 ± 2.10	0.79 ± 1.19	0.81 ± 2.37	0.69 ± 1.19	0.69 ± 1.31	0.68 ± 1.12	0.460	0.296	0.251	0.122	0.855
Subendometrial volume (ml)	11.54 ± 2.94	11.30 ± 2.82	11.62 ± 2.99	9.57 ± 2.35	9.06 ± 2.36	9.86 ± 2.30	<0.001	0.205	0.046	<0.001	<0.001
Subendometrial VI	7.47 ± 6.60	7.47 ± 5.79	7.48 ± 6.90	6.74 ± 6.46	5.32 ± 5.22	7.52 ± 6.95	0.056	0.55	0.031	0.005	0.759
Subendometrial FI	32.36 ± 4.76	32.84 ± 5.10	32.17 ± 4.61	32.39 ± 4.01	31.62 ± 4.17	32.81 ± 3.87	0.937	0.282	0.053	0.103	0.176
Subendometrial VFI	2.70 ± 3.10	2.57 ± 2.06	2.75 ± 3.42	2.23 ± 2.23	1.71 ± 1.72	2.52 ± 2.42	0.033	0.483	0.023	0.002	0.688
Clinical pregnancy							0.065				
No	116 (28%)			62 (35%)							
Yes	301 (72%)			113 (65%)							
Live birth							0.039				
No	146 (35%)			77 (44%)							
Yes	271 (65%)			98 (56%)							

TABLE 2 Comparisons of characteristics and ultrasound parameters on the day of ovulation between the mild- and moderate-severe IUAs groups.

Variable	Overall	Moderate-to-severe IUAs	Mild IUAs	p value
Cycles	175	93	82	
<b>Baseline characteristics</b>				
Age (years)	30.34 ± 2.84	30.24 ± 2.89	30.47 ± 2.79	0.743
Duration of infertility (years)	2.91 ± 1.88	2.81 ± 1.72	3.01 ± 2.05	0.739
BMI (kg/m <sup>2</sup> )	20.94 ± 1.67	20.72 ± 1.52	21.20 ± 1.80	0.07
Number of oocyte retrieval cycles	1.17 ± 0.42	1.18 ± 0.44	1.15 ± 0.39	0.606
AFC	19.57 ± 14.38	17.62 ± 13.86	21.77 ± 14.73	0.057
FSH	5.88 ± 2.03	5.80 ± 2.13	5.98 ± 1.93	0.266
LH	5.05 ± 6.02	5.40 ± 7.42	4.66 ± 3.87	0.518
AMH	5.14 ± 3.63	4.82 ± 3.16	5.49 ± 4.08	0.446
<b>Ultrasound indicators on the day of ovulation</b>				
Endometrial morphology classification				0.958
Type A	43 (25%)	23 (25%)	20 (24%)	
Type B+Type C	132 (75%)	70 (75%)	62 (76%)	
Endometrial blood flow classification				0.864
I	23 (13%)	13 (14%)	10 (12%)	
II	140 (80%)	73 (78%)	67 (82%)	
III	12 (6.9%)	7 (7.5%)	5 (6.1%)	
Endometrial thickness (mm)	9.53 ± 1.93	9.07 ± 1.69	10.05 ± 2.07	<0.001
<8	34 (19%)	25 (27%)	9 (11%)	0.008
≥8	141 (81%)	68 (73%)	73 (89%)	
Endometrial volume (ml)	2.89 ± 1.45	2.59 ± 1.29	3.23 ± 1.56	0.002
<2	57 (33%)	39 (42%)	18 (22%)	0.005
≥2	118 (67%)	54 (58%)	64 (78%)	
Frequency of endometrial peristalsis (time/min)	1.79 ± 1.42	1.43 ± 1.26	2.20 ± 1.49	<0.001
<2	83 (47%)	54 (58%)	29 (35%)	0.003
≥2	92 (53%)	39 (42%)	53 (65%)	
Endometrial VI	1.95 ± 2.79	2.13 ± 3.14	1.73 ± 2.34	0.311
Endometrial FI	28.83 ± 6.10	28.15 ± 6.37	29.60 ± 5.72	0.367
Endometrial VFI	0.69 ± 1.19	0.72 ± 1.29	0.65 ± 1.06	0.537
Subendometrial volume (ml)	9.57 ± 2.35	9.22 ± 2.29	9.97 ± 2.36	0.023
Subendometrial VI	6.74 ± 4.66	6.69 ± 6.19	6.79 ± 6.79	0.98
Subendometrial FI	32.39 ± 4.01	31.48 ± 3.64	33.43 ± 4.17	0.002
Subendometrial VFI	2.23 ± 2.23	2.14 ± 2.02	2.33 ± 2.45	0.842
Clinical pregnancy				0.739
No	62 (35%)	34 (37%)	28 (34%)	
Yes	113 (65%)	59 (63%)	54 (66%)	
Live birth				0.742

(Continued)

TABLE 2 Continued

Variable	Overall	Moderate-to-severe IUAs	Mild IUAs	p value
<b>Ultrasound indicators on the day of ovulation</b>				
No	77 (44%)	42 (45%)	35 (43%)	
Yes	98 (56%)	51 (55%)	47 (57%)	