

Supplementary Table 1. Characteristics of the included studies (N=11)

Study	Country	Study design	Group	n (PP population)	Age (year), mean $\pm$ SD	RIF history	Previous investigation	Method of pregnancy attempt
Tanakan et al. (2019) [36]	Turkey	Retrospective cohort study	OH	48	9.9 $\pm$ 4.3	First	Normal HSG and TVS	IVF
			· Normal	42	-			
			· Abnormal	6	-			
Alleyassin et al. (2017) [35]	Iran	RCT	No OH	282	30.3 $\pm$ 4.2	First	Normal HSG, TVS, semen analysis, and hormonal profile	ICSI
			· Normal	110	29.55 $\pm$ 3.85			
			· Abnormal	25	-			
El-Toukhy et al. (2016). [32]	European countries	RCT	No OH	110	29.14 $\pm$ 4.34	RIF	Normal TVS	IVF
			· Normal	350 (323)	33.0			
			· Abnormal	85	-			
Smit et al. (2016) [34]	Netherlands	RCT	No OH	325 (348)	33.0	First	Normal TVS	IVF/ICSI
			· Normal	369 (325)	33 $\pm$ 4.4			
			· Abnormal	288	-			
Pabuccu et al. (2016) [33]	Turkey	Retrospective cohort study	No OH	373 (364)	33 $\pm$ 4.5	RIF	Normal HSG and TVS	IVF/ICSI
			· Normal	119	30.7 $\pm$ 5.3			
			· Abnormal	58	-			
Hosseini et al. (2014) [31]	Iran	Prospective cohort study	No OH	244	31.93 $\pm$ 4.4	RIF	Normal HSG and TVS	ART IVF/ET
			· Normal	142	32.6 $\pm$ 4.2			
			· Abnormal	103	-			
Kilic et al. (2013) [30]	Turkey	Prospective cohort study	No OH	211	32.7 $\pm$ 4.3	Uncertain	Normal HSG and TVS	IVF
			· Normal	100	31.9 $\pm$ 3.4			
			· Abnormal	59	-			
Shawki et al. (2012) [29]	Egypt	RCT	No OH	395	31.4 $\pm$ 3.2	Uncertain	Normal HSG and TVS	ICSI
			· Normal	120 (105)	33 $\pm$ 11.14			
			· Abnormal	35	-			
Makrakis et al. (2009) [28]	Greece	Prospective matched case-control study	No OH	120	31 $\pm$ 12.324	RIF	Normal HSG	IVF/ICSI
			· Normal	1,475	35.38 $\pm$ 3.96			
			· Abnormal	935	35.8 $\pm$ 4.3-			
Rama Raju et al. (2006) [27]	India	RCT	No OH	414	36.2 $\pm$ 4.6	RIF	Normal HSG	IVF
			· Normal	255	-			
			· Abnormal	160	27.40 $\pm$ 0.60			
Demiroglu and Gurgan (2004) [26]	Turkey	RCT	No OH	265	29.04 $\pm$ 0.92	RIF	Normal HSG	IVF
			· Normal	210	26.72 $\pm$ 0.46			
			· Abnormal	154	35.4 $\pm$ 0.6			
			No OH	211	34.3 $\pm$ 0.8			

ART: Artificial reproductive technology; ET: embryo transfer; HSG: hysterosalpingography; ICSI: intracytoplasmic sperm injection; IVF: in vitro fertilization; OH: office hysteroscopy; PP: per protocol; RIF: recurrent implantation failure; TVS: transvaginal sonography.