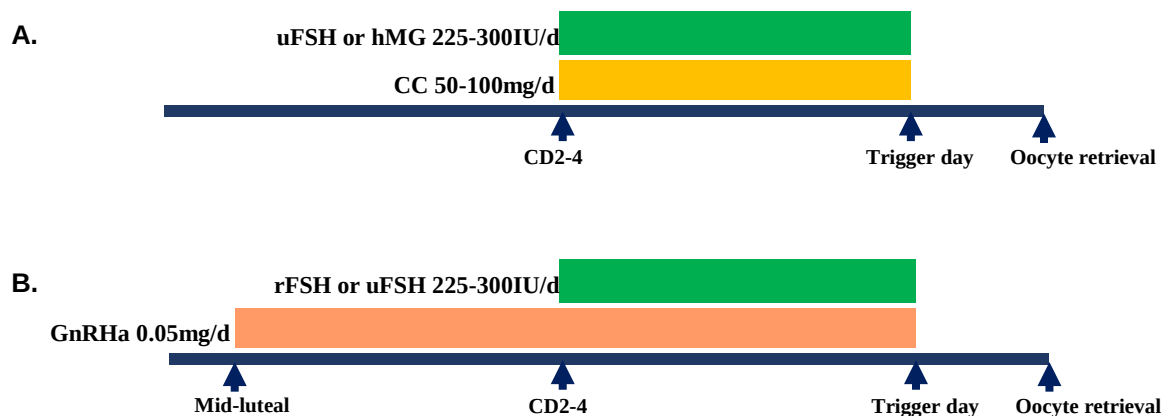
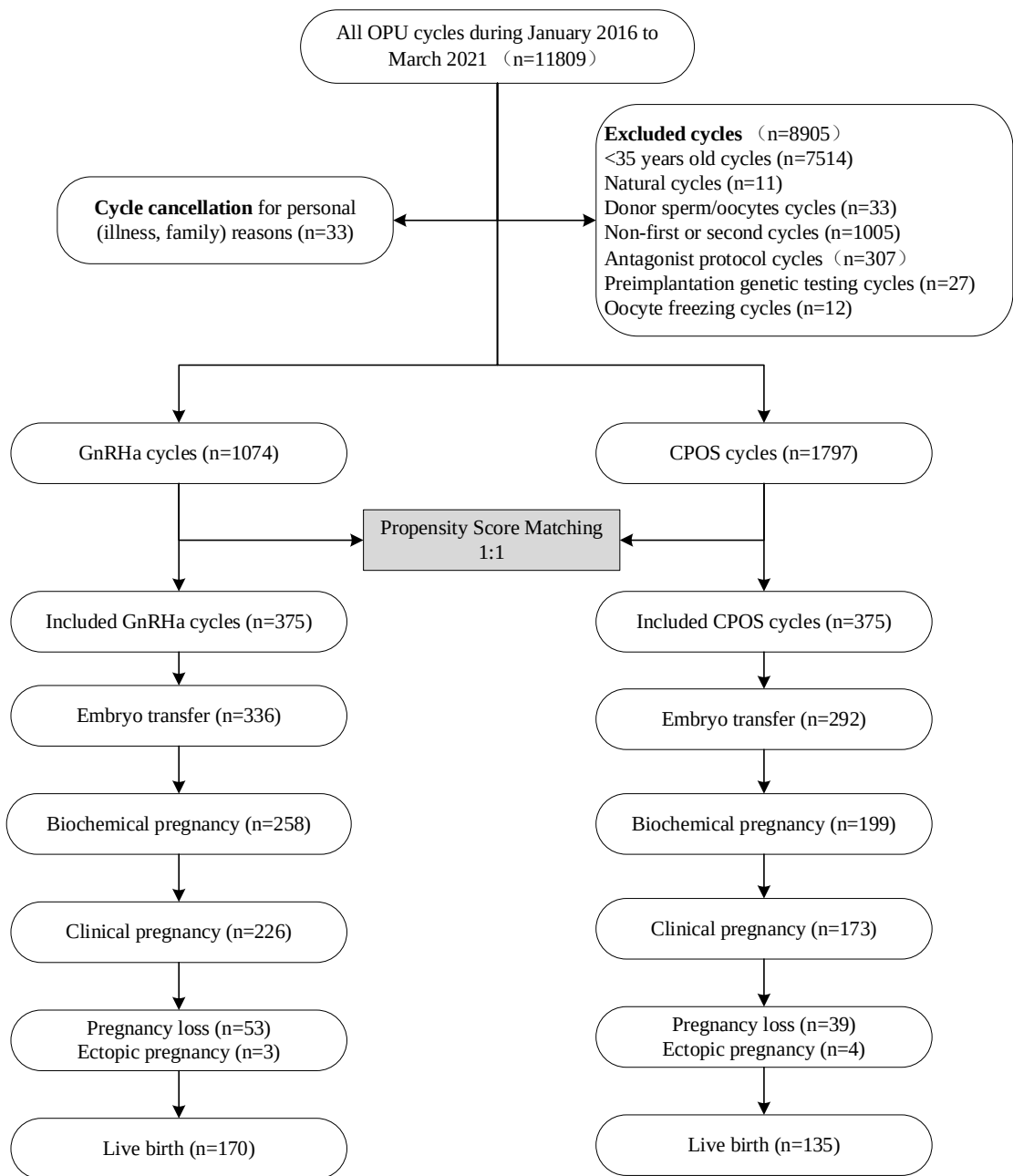




Supplementary figure 1. Schematic diagram of the two ovarian stimulation protocols. **A.** Schematic diagram of ovarian stimulation in CPOS protocol. **B.** Schematic diagram of ovarian stimulation in GnRHα protocol. CD: cycle day. CC: clomiphene citrate. uFSH: urine follicle-stimulating hormone. rFSH: recombinant follicle-stimulating hormone; GnRHα, gonadotropin-releasing hormone agonist.



Supplementary figure 2. The study flow chart.

Supplementary Table S1. Decision tree model input parameters.

Parameter	Distribution	Value	One way sensitivity analysis	
			min	max
Cost, CNY				
pre-IVF examination	Gamma	5000	3750	5250
OS with CPOS protocol ^a	Gamma	5523.86	4812.11	6586.735
OS with GnRH α protocol ^a	Gamma	12333.89	10710.68222	15105.48631
Oocyte retrieval and embryo culture	Gamma	9175	7675	11468.75
Fresh embryo transfer and luteal ^b support	Gamma	3524.38	2643.285	4405.475
Frozen embryo transfer and luteal support ^b	Gamma	5677.38	4258.035	7096.725
Misscarriage ^c	Gamma	4090.76	3068.07	5113.45
Live birth ^c	Gamma	11272.28	9272.28	16272.28
Probability				
Live birth rate in 1st FET cycle of GnRH α group	Beta	34.72	26.04	43.40
Live birth rate in 2nd FET cycle of GnRH α group	Beta	35.63	26.72	44.54
Live birth rate in 3rd FET cycle of GnRH α group	Beta	24.14	18.11	30.18
Live birth rate in 4th FET cycle of GnRH α group	Beta	18.18	13.64	22.73
Live birth rate in 1st FET cycle of CPOS group	Beta	35.50	26.63	44.38
Live birth rate in 2nd FET cycle of CPOS group	Beta	52.30	39.23	65.38
Live birth rate in 3rd FET cycle of CPOS group	Beta	21.10	15.83	26.38
Live birth rate in 4th FET cycle of CPOS group	Beta	50.00	37.50	62.50

a Ultrasound monitoring, sex hormone testing, consultation, and drugs costs during ovulation induction are all included.

b The cost of luteal support here is restricted to the cost of drugs administered 12-14 days following embryo transfer.

c The cost of luteal support drugs for the first 8-10 weeks after embryo transfer is also included.