

Supplemental table 1. The number of ovarian grafts in each group for each experiment

	Embedding in paraffin	Isolation of follicles and classification	Measurement of Lipid Peroxide Malondialdehyde	Quantitative polymerase chain reaction	Freezing and served	Total
Control group	63	35	6	6	16	504
GSH group	63	35	6	6	16	
UTI group	63	35	6	6	16	
GSH+UTI group	63	35	6	6	16	

In this study, there were 84 SCID mice randomly dividing into 4 groups. Three mice in each group were sacrificed to take the grafts (6 grafts/ mice) at the 1st, 3rd, 7th, 14th, 28th, 56th, 85th day after transplantation respectively.

Half of the grafts were embedding in paraffin and serially sectioned. Slides were used in HE staining and immunohistochemistry staining. Rest grafts were used in other experiments. For details, there were five grafts were used at each time point (1st, 3rd, 7th, 14th, 28th, 56th, 85th day after transplantation) of each group in the follicles isolation experiments, and two grafts were used in q-PCR and ELISA at the each time point (1st, 3rd, 7th day after transplantation) of each group, and the rest of grafts were freezing and served. The clear details were showed in supplemental table 2.

Supplemental table 2. The number of ovarian grafts in each group at the different time point

Time	Experiment	Quantity of human ovarian tissue			
		Control group	GSH Group	UTI Group	GSH+UTI Group
1st day	Embedding in paraffin	9	9	9	9
	Live/Dead staining	5	5	5	5
	MDA and qPCR	4	4	4	4
3rd day	Embedding in paraffin	9	9	9	9
	Live/Dead staining	5	5	5	5

	MDA and qPCR	4	4	4	4
7th day	Embedding in paraffin	9	9	9	9
	Live/Dead staining	5	5	5	5
	MDA and qPCR	4	4	4	4
14th day	Embedding in paraffin	9	9	9	9
	Live/Dead staining	5	5	5	5
	freezing and served	4	4	4	4
28th day	Embedding in paraffin	9	9	9	9
	Live/Dead staining	5	5	5	5
	freezing and served	4	4	4	4
56th day	Embedding in paraffin	9	9	9	9
	Live/Dead staining	5	5	5	5
	freezing and served	4	4	4	4
85th day	Embedding in paraffin	9	9	9	9
	Live/Dead staining	5	5	5	5
	freezing and served	4	4	4	4
