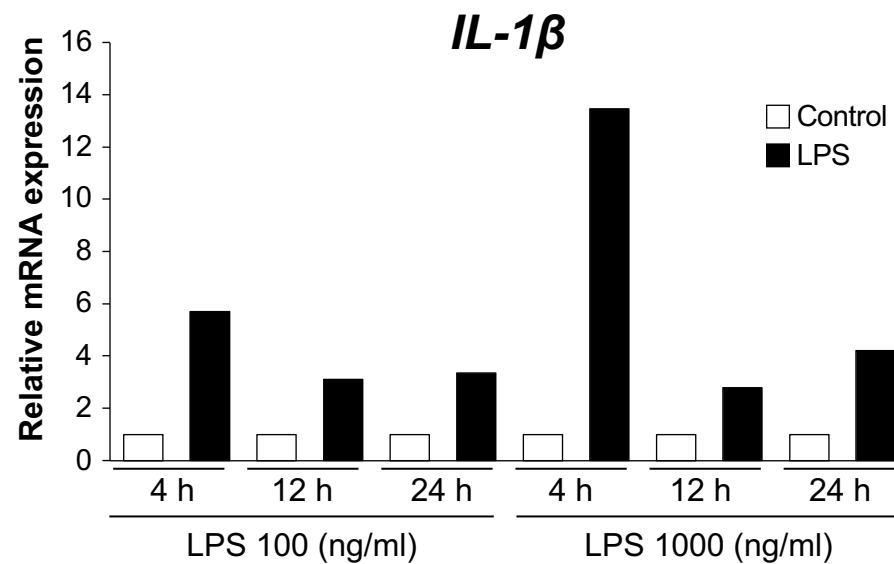


	Control patients	Patients with suspected CE	<i>P-value</i>
<b>Number</b>	15	13	
<b>Characteristics</b>			
Age	35.1 ± 0.94(29-41)	35.3 ± 1.15(27-42)	0.91
BMI	25.6 ± 1.71	21.5 ± 0.67	0.17
Smoking, n (%)	2/15(13.3)	0/13(0.0)	0.48
<b>Plasma concentration</b>			
Estradiol (pg/ml)	279.1 ± 59.2	393.3 ± 85.3	0.24
Progesterone (ng/ml)	1.04 ± 0.20	1.09 ± 0.59	0.15
LH (mIU/ml)	23.8 ± 6.40	20.1 ± 6.68	0.83
FSH (mIU/ml)	11.1 ± 1.71	9.0 ± 1.35	0.37
<b>Supernatant concentration</b>			
Menstrual cycle	12.9 ± 0.63	21.6 ± 1.31	<0.05
Estradiol (pg/ml)	104.1 ± 18.09	41.7 ± 7.82	<0.05
Progesterone (ng/ml)	1.27 ± 0.27	6.29 ± 1.60	<0.05
<b>Vaginal culture</b>			
Lactobacillus spp., n (%)	4/15(26.7)	3/13(23.1)	1.00
Escherichia coli, n (%)	2/15(13.3)	2/13(15.4)	1.00
Others, n (%)	10/15(66.7)	7/13(53.8)	0.70

Table S1. Clinical characteristics of the patients. One patient with CE was not examined for plasma concentration and vaginal culture. Abbreviations: BMI (Body Mass Index). The values are shown as mean ± SEM and  $P < 0.05$ .



**Figure S1.** IL-1 $\beta$  gene expression for 4, 12, and 24 h using EM-E6/E7/hTERT-2 cells. The cells were then treated with LPS (0, 100, and 1000 ng/ml). The experiments were conducted once. The values are shown as the mean  $\pm$  SEM.

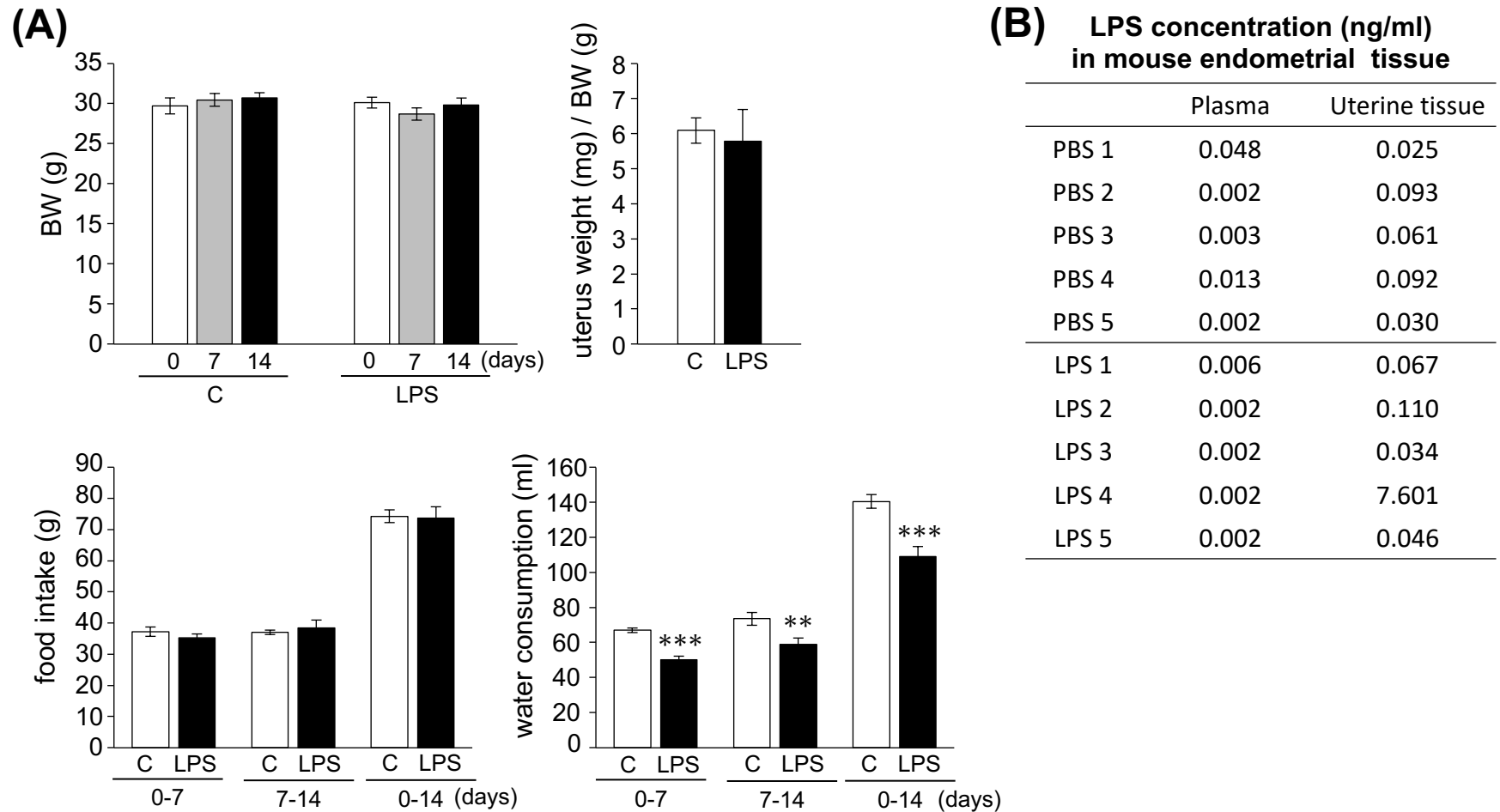


Figure S2. Physiological effects of LPS in mice (A) Mouse body weight (BW), uterine weight/BW, food intake, and water consumption (control,  $n = 5$ ; LPS group,  $n = 5$ ). (B) Concentration of LPS in plasma and uterine tissue. Values are shown as the mean  $\pm$  SEM; \*\*  $P < 0.01$ , \*\*\*  $P < 0.005$ .

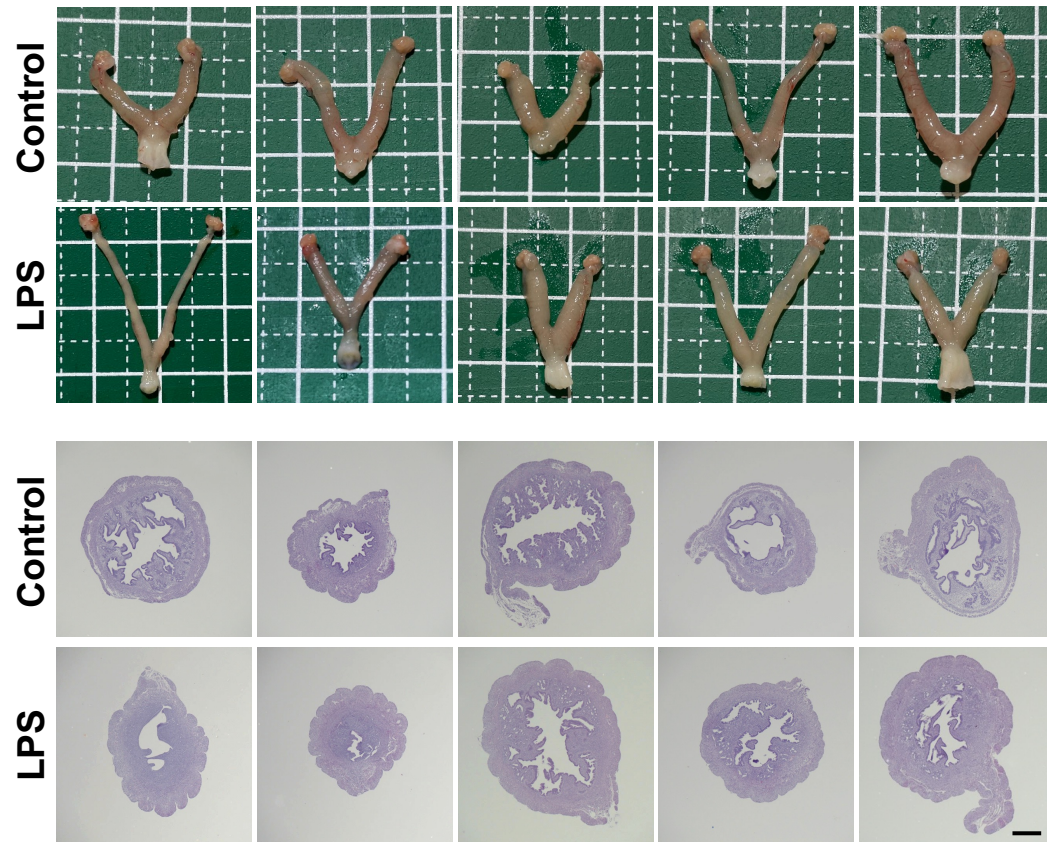


Figure S3. Histology of the uterus after PBS and LPS administration (control n = 5, LPS group n = 5). ( $\times 40$ ) with Scale bar = 50  $\mu\text{m}$ .

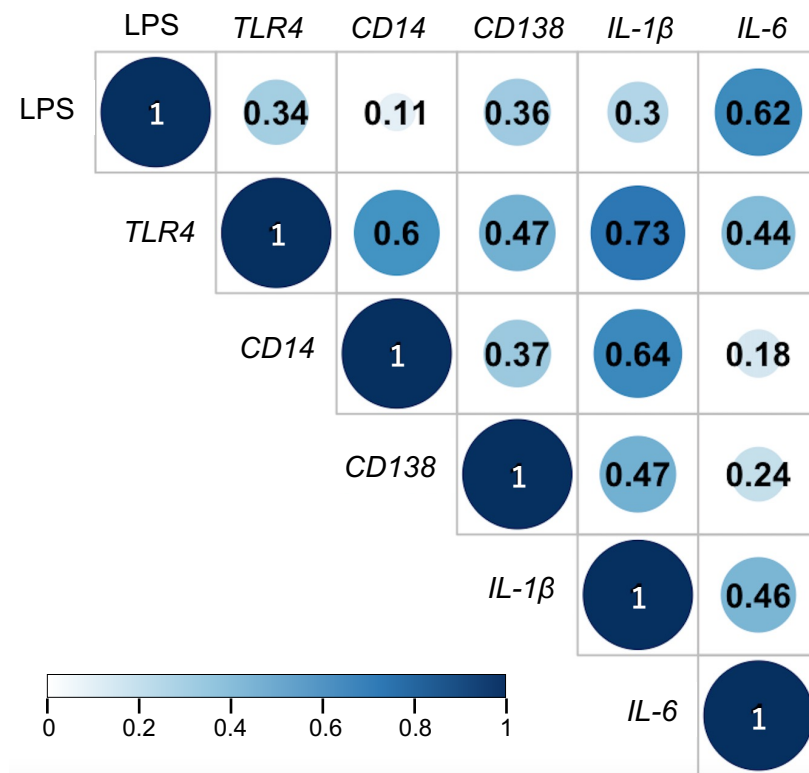


Figure S4. Correlation coefficients between LPS and inflammatory markers in human endometrial tissue (n = 23).

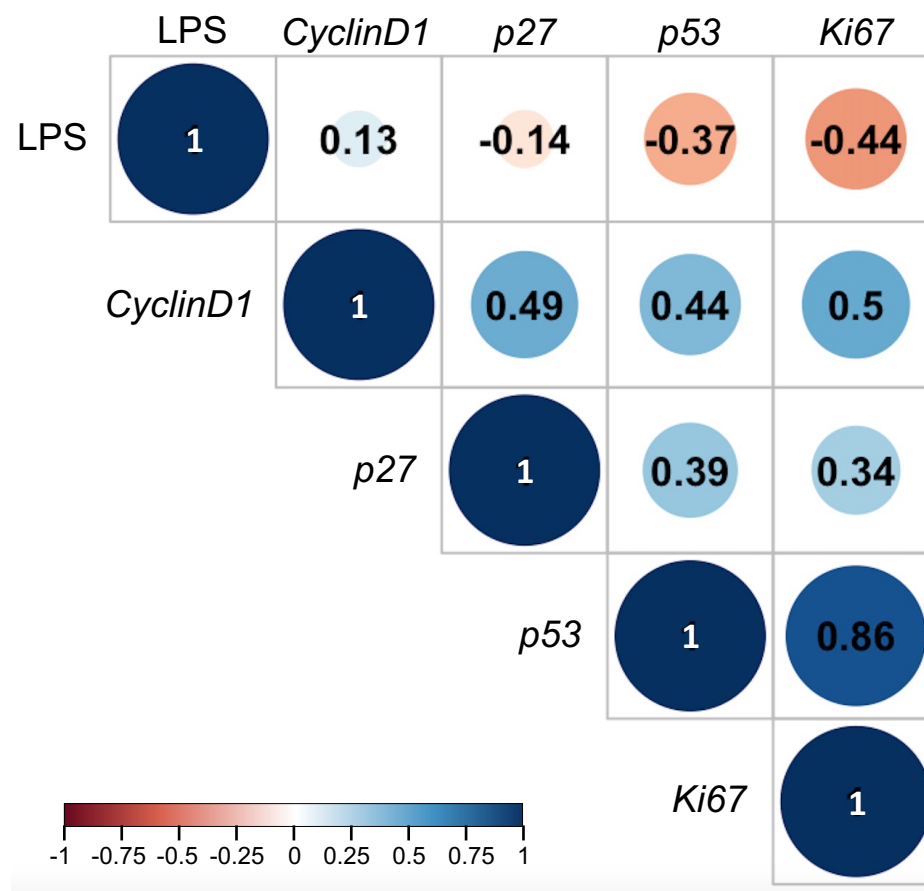


Figure S5. Correlation coefficients between LPS and cell cycle markers in human endometrial tissue (n = 23).