

Additional file 3 Clinical examination results of KS patients in this study

Parameter	KS1	KS2	Normal range
age	43	32	-
height, cm	174	177	-
weight, kg	74	85	-
body mass index, kg/m ²	24.44	27.13	-
karyotype	47,XXY	47,XXY	46,XY
bilateral testicular volume (mL)	3/3	2.3/3.1	15-32
semen volume (mL)	2.5	2.1	≥1.5
semen pH value	7.4	7.4	≥7.2
sperm concentration (×10 ⁶ /mL)	0	0	≥15
estradiol (pg/mL)	28.94	26.23	< 39.8
Follicle-Stimulating Hormone (mIU/mL)	38.56	47.51	1.4-18.1
Testosterone hormone (ng/dL)	78.08	181.51	197.44-669.58