Table S1 Basic characteristics and KAP scores

Variables	n (%)	Knowledge		Attitude		Practice	
		Mean ± SD	P	Mean ± SD	Р	Mean ± SD	P
Total	499	6.00±1.99		22.29±1.96		29.28±3.78	
Gender			0.23		0.34		0.009
Male	327 (65.53)	5.93±2.00		22.23±1.95		28.96±3.91	
Female	172 (34.47)	6.15±1.95		22.41±1.97		29.89±3.44	
Age	44.41±10.54	-	-	-	-	-	-
Education			< 0.001		0.003		< 0.001
Middle school and below	148 (29.66)	5.14±1.98		21.95±1.80		27.31±3.33	
High school/technical secondary school	166 (33.27)	5.99±1.80		22.19±1.80		29.02±3.17	
Junior college/undergraduate and above	185 (37.07)	6.70±1.88		22.66±2.15		31.09±3.78	
Ethnicity			0.32		0.88		0.85
Han Chinese	498 (99.80)	6.00±1.99		22.29±1.96		29.28±3.78	
Ethnic minority	1 (0.20)	8.00		22.00		30.00	
Work status			< 0.001		0.17		< 0.001
Employed	180 (36.07)	6.59±1.83		22.45±1.94		30.62±3.11	
Unemployed	51 (10.22)	5.39±1.87		21.80±2.25		28.10±4.21	
Retired	113 (22.65)	5.12±2.06		22.04±1.81		27.43±3.86	
Self-employed	40 (8.02)	5.57±2.06		22.33±1.83		28.50±3.04	
Students	21 (4.21)	5.95±1.36		22.57±2.46		29.43±3.54	
Other	94 (18.84)	6.47±1.83		22.49±1.89		29.87±3.84	
Monthly per capita income	, ,		< 0.001		0.005		< 0.001
<2,000	45 (9.02)	5.20±2.27		21.76±2.35		28.76±4.27	
2,000–<5,000	161 (32.26)	5.64±2.00		22.25±1.98		28.37±3.66	
5,000–10,000	218 (43.69)	6.47±1.71		22.18±1.61		29.44±3.36	
>10,000	44 (8.82)	6.20±1.92		22.98±1.90		31.32±4.40	
Unwilling to disclose	31 (6.21)	5.48±2.51		23.10±2.94		30.74±3.98	
Marital status	01 (0.21)	0.4012.01	0.002	20.1012.04	0.24	00.7 4±0.00	<0.001
Married	376 (75.35)	5.85±1.95	0.002	22.23±1.89	0.24	28.80±3.56	<0.001
Unmarried/divorced/widowed	123 (24.65)	6.49±2.02		22.23±1.09 22.47±2.16		30.76±4.06	
Have children	123 (24.03)	0.49±2.02	<0.001	22.47±2.10	0.14	30.70±4.00	<0.001
Yes	242 (69 54)	F 77 . 0 00	<0.001	00 00 1 00	0.14	00 70 . 2 72	<0.001
No	342 (68.54)	5.77±2.00		22.20±1.88 22.48±2.11		28.70±3.73	
	157 (31.46)	6.51±1.85	-0.001	22.40±2.11	0.06	30.54±3.59	-0.001
Smoking	004 (70 00)	0.40 . 4.00	<0.001	00.04.4.04	0.36	00 50 . 0 54	<0.001
Never smoked	391 (78.36)	6.19±1.92		22.34±1.94		29.59±3.51	
History of smoking	108 (21.64)	5.31±2.07	0.004	22.14±2.03		28.14±4.44	0.004
Drinking alcohol	0.40 (00.04)	0.00 4.00	<0.001	00.40.000	0.06	00.04.0.00	<0.001
Never drank alcohol	346 (69.34)	6.29±1.90		22.40±2.02		29.81±3.60	
History of drinking alcohol	153 (30.66)	5.35±2.04		22.05±1.80		28.08±3.90	
Medical or other commercial insurance			0.31		0.81		0.26
Yes	474 (94.99)	5.98±1.97		22.30±1.96		29.32±3.71	
No	25 (5.01)	6.40±2.20		22.20±1.91		28.44±4.87	
Post-transplant complications			0.001		0.008		0.91
Yes	164 (32.87)	6.43±1.81		21.95±1.76		29.25±3.94	
No	335 (67.13)	5.79±2.03		22.45±2.03		29.29±3.70	
Secondary kidney transplant			0.77		0.44		0.19
Yes	12 (2.40)	6.42±2.43		21.58±2.35		30.17±3.43	
No	480 (96.19)	5.99±1.98		22.31±1.95		29.22±3.76	
Unwilling to disclose	7 (1.40)	6.00±1.73		22.43±1.99		31.57±5.26	
Donated by a member of your immediate			0.44		0.58		0.53
family for kidney transplant							
Yes	8 (1.60)	5.13±1.81		22.50±2.93		30.75±4.50	
No	485 (97.19)	6.02±1.99		22.30±1.94		29.25±3.77	
Unwilling to disclose	6 (1.20)	6.17±1.94		21.50±1.76		29.50±3.67	
Duration since kidney transplant	54.78±47.39	-	-	-	-	-	-
Underlying or chronic illnesses			0.30		0.002		< 0.001
None	103 (20.64)	6.24±2.07		22.71±1.93	1.93	31.14±3.36	
1	198 (39.68)	6.08±1.98		22.44±2.02	2.02	29.82±3.59	
2–3	189 (37.88)	5.81±1.93		21.97±1.82	1.82	27.83±3.65	
4 or more	9 (1.80)	5.78±2.11		21.11±2.32	2.32	26.56±2.30	

Table S2 Distribution of knowledge dimension

ect, n (%)
5 (91.18)
7 (67.54)
0 (76.15)
1 (2.20)
1 (50.30)
3 (45.69)
7 (33.47)
3 (54.71)
3 (81.76)
6 (97.39)
1 (2.2 1 (50 3 (45 7 (33 3 (54 3 (81

The original questionnaire was in Chinese. The translation presented above is not a validated translation.

Table S3 Distribution of attitude dimension

Items	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
I feel worried, fearful and anxious about post-transplant complications.	30 (6.01)	288 (57.72)	137 (27.45)	41 (8.22)	3 (0.60)
2. I think post-transplant complications are a necessary consequence to bear.	17 (3.41)	302 (60.52)	140 (28.06)	39 (7.82)	1 (0.20)
3. I am confident that I can overcome post-transplant complications.	47 (9.42)	373 (74.75)	73 (14.63)	6 (1.20)	0
4. I am motivated to face the post-transplant complications.	58 (11.62)	400 (80.16)	37 (7.41)	3 (0.60)	1 (0.20)
5. I think I need psychological support and comfort from my family and friends to face the post-transplant complications together.	105 (21.04)	299 (59.92)	75 (15.03)	19 (3.81)	1 (0.20)
6. I think the professionalism and selfless care of the medical team is essential for patients to overcome post-transplant complications.	205 (41.08)	282 (56.51)	9 (1.80)	2 (0.40)	1 (0.20)

The original questionnaire was in Chinese. The translation presented above is not a validated translation. Data are presented as n (%).

Table S4 Distribution of practice dimension

Items	Always	Often	Occasionally	Rarely	Never
I would proactively learn the daily management of post- transplant complications.	54 (10.82)	271 (54.31)	157 (31.46)	17 (3.41)	0
I would manage my diet by combining meat and vegetables, eating a varied diet and avoiding overeating and excessive grease.	88 (17.64)	386 (77.35)	22 (4.41)	2 (0.40)	1 (0.20)
3. I would pay attention to psychological regulation.	76 (15.23)	173 (34.67)	162 (32.46)	82 (16.43)	6 (1.20)
 If necessary, I would go to a psychological clinic for psychological counseling. 	10 (2.00)	20 (4.01)	72 (14.43)	191 (38.28)	206 (41.28)
5. I would change my bad habits, e.g., smoking, drinking alcohol, and staying up late.	119 (23.85)	350 (70.14)	21 (4.21)	5 (1.00)	4 (0.80)
6. I would avoid strenuous activities and gradually participate in physical activities and exercise for a long period of time.	78 (15.63)	298 (59.72)	112 (22.44)	11 (2.20)	0
7. I would gradually return to society, participate in work and integrate my body into society.	77 (15.43)	209 (41.88)	128 (25.65)	82 (16.43)	3 (0.60)
8. I would follow medical advice, take my medication on time and have regular check-ups.	257 (51.50)	239 (47.90)	3 (0.60)	0	0

Data are presented as n (%).

Table S5 Structural equation modelling fit without age

Indicator	Reference	Measured results		
CMIN/DF	1–3 excellent, 3–5 good	5.912		
RMSEA	<0.08 good	0.099		
IFI	>0.8 good	0.925		
TLI	>0.8 good	0.767		
CFI	>0.8 good	0.922		
GFI	>0.8 good	0.981		
AGFI	>0.8 good	0.921		

 ${\bf Table~S6~Structural~equation~modelling~fit~with~age}$

Reference	Actual	
1-3: excellent, 3-5: good	15.694	
<0.08: Good	0.172	
>0.8: Good	0.591	
>0.8: Good	0.218	
>0.8: Good	0.581	
	1–3: excellent, 3–5: good <0.08: Good >0.8: Good >0.8: Good	