

Supplementary Table 1 Baseline characteristics and KAP scores

Variables	N (%)	Knowledge score		Attitude score		Practice score	
		Mean ± SD	P	Mean ± SD	P	Mean ± SD	P
Total	1843	10.09±5.60		26.76±3.80		6.24±2.20	
Age (years old)			0.736		0.004		<0.001
18-30	403(21.87)	11(5, 14)		27(24, 30)		6(4, 8)	
30-35	452(24.53)	11(6, 15)		27(24, 29)		6(6, 8)	
35-40	375(20.35)	11(6, 15)		26(24, 29)		6(6, 8)	
40-45	311(16.87)	11(6, 15)		27(24, 29)		6(6, 8)	
45 and above	302(16.39)	12(6, 15)		26(24, 29)		6(6, 8)	
Residence			<0.001		0.026		<0.001
Rural	475(25.77)	7(2, 12)		26(24, 28)		6(4, 8)	
Urban	741(40.21)	13(8, 16)		27(24, 30)		6(6, 8)	
Suburban	627(34.02)	12(7, 15)		27(24, 29)		6(6, 8)	
Ethnicity			0.021		0.912		0.019
Han	1789(97.07)	11(6, 15)		26.76±3.82		6(6, 8)	

Minority	54(2.93)	6(4, 14)	26.81±3.30	6(4, 8)
Education			<0.001	<0.001
Primary and below	32(1.74)	2(0, 6)	25.38±3.18	4.88±2.78
Middle School	305(16.55)	6(2, 10)	25.88±3.28	5.70±2.61
High school /				
Technical secondary school	244(13.24)	8(3, 12)	26.29±3.56	5.88±2.54
Junior college /				
Undergraduate	1105(59.96)	12(8, 15)	26.96±3.93	6.45±1.98
Postgraduate and above	157(8.52)	16(12, 17)	28.08±3.78	6.69±1.79
Employment Status			<0.001	<0.001
Employed	1375(74.61)	10.86±5.36	26.85±3.83	6(6, 8)
Unemployed	44(2.39)	7.43±5.45	25.82±3.22	6(6, 8)

Retired	47(2.55)	9.26±5.68	25.60±3.27	6(4, 8)
Freelance	140(7.60)	7.54±5.72	26.95±4.07	6(4, 8)
Housewife	133(7.22)	6.33±5.25	25.82±3.69	6(4, 8)
Student	45(2.44)	13.27±3.46	28.69±3.06	6(6, 8)
Other	59(3.20)	6.93±5.54	26.41±3.17	6(4, 8)
Household				
income per capita		<0.001	<0.001	<0.001
(Yuan)				
<2000	90(4.88)	3(0, 8)	25.61±3.36	6(4, 8)
2000-5000	411(22.30)	9(4, 13)	26.22±3.66	6(4, 8)
5000-10000	721(39.12)	11(6, 15)	26.87±3.68	6(6, 8)
10000-20000	431(23.39)	13(8, 16)	27.06±4.13	6(6, 8)
>20000	190(10.31)	13(8, 16)	27.34±3.77	6(6, 8)
Marital status		<0.001	0.058	<0.001
Unmarried	171(9.28)	13(7, 16)	27.41±3.74	6(6, 8)

Married	1596(86.60)	11(6, 15)	26.70±3.81	6(6, 8)		
Divorced /	76(4.12)	11(6, 15)	26.53±3.60	6(4, 8)		
Widowed						
Sexual life			0.963	0.862		<0.001
Yes	1709(92.73)	14(12, 16)	26.75±3.82	8(6, 8)		
No	134(7.27)	10(5, 14)	26.81±3.50	6(6, 8)		
The number of sexual partners			0.863	0.502		0.685
1	1527(82.85)	10.10±5.57	26.72±3.81	6(6, 8)		
2	118(6.40)	9.88±5.75	26.82±4.16	6(4, 8)		
≥3	64(3.47)	10.58±5.21	27.45±3.49	7(4.5, 8)		
Family history of cervical cancer			<0.001	0.178		0.008
Yes	31(1.68)	12.19±4.83	27.71±4.43	8(6, 8)		
No	1709(92.73)	10.26±5.56	26.77±3.80	6(6, 8)		

Unclear	103(5.59)	6.78±5.42	26.30±3.61	6(4, 8)	
History of HPV infection			<0.001	0.021	<0.001
	Yes	195(10.58)	14(12, 16)	27.5(24.75, 29)	8(6, 8)
	No	1648(89.42)	10(5, 14)	26(24, 29)	6(6, 8)
Smoking status			0.013	0.347	0.873
Never smoked	1737(94.25)	11(6, 15)	26.79±3.77	6(6, 8)	
Former smoker	75(4.07)	8(4, 13.5)	26.40±4.33	6(5, 8)	
Current smoker	31(1.68)	6(4, 14)	25.97±4.06	6(6, 8)	