

Supplement Table 1 Predictors of intention to get the 9-valent HPV vaccine (all variables).

Item	All participants (N = 1547)	Intention to receive HPV vaccine		AOR(95%CI)	P-value
		Vaccine hesitancy (N =850)	Vaccine acceptance (N = 697)		
Residence					
Rural	742(47.96%)	406(47.76%)	336(48.21%)	Ref	/
Urban	805(52.04%)	444(52.23%)	361(51.79%)	0.885(0.703-1.115)	0.300
College grade					
Freshman	627(40.53%)	361(42.47%)	266(38.16%)	Ref	/
Sophomore	572(36.97%)	330(38.82%)	242(34.72%)	0.910(0.702-1.115)	0.475
Junior	223(14.41%)	108(12.71%)	115(16.50%)	1.393(0.981-1.978)	0.064
Senior and fifth	125(8.08%)	51(6.00%)	74(10.62%)	1.124(0.712-1.777)	0.615
BMI (kg/m²)					
<18.5	188(12.15%)	110(12.94%)	78(11.19%)	Ref	/
18.5-24	1034(66.84%)	548(64.47%)	486(69.73%)	1.406(0.983-2.011)	0.062
24-28	258(16.68%)	151(17.76%)	107(15.35%)	1.313(0.854-2.020)	0.214
>28	67(4.33%)	41(4.82%)	26(3.73%)	0.827(0.414-1.651)	0.590
Are you a medical student?					
No	1376(88.95%)	777(91.41%)	599(85.94%)	Ref	/
Yes	171(11.05%)	73(8.59%)	98(14.06%)	1.550(1.070-2.246)	0.021
Current smoking status					
No	1350(87.27%)	751(88.35%)	599(85.94%)	Ref	/
Yes	197(12.73%)	99(11.65%)	98(14.06%)	1.074(0.738-1.564)	0.708
Current drinking status					
No	1147(74.14%)	630(74.12%)	517(74.18%)	Ref	/
Yes	400(25.86%)	220(25.88%)	180(25.82%)	0.845(0.636-1.124)	0.248
Romantic relationships					
Single, no romance experience	586(37.88%)	353(41.53%)	233(33.43%)	Ref	/
Single, have romance experience	487(31.48%)	276(32.47%)	211(30.27%)	0.982(0.740-1.304)	0.901
In a romantic relationship	474(30.64%)	221(26.00%)	253(36.30%)	1.673(1.258-2.225)	< 0.001
Do you have relatives or friends with cervical cancer?					
No	1479(95.60%)	827(97.29%)	652(93.54%)	Ref	/
Yes	68(4.40%)	23(2.71%)	45(6.46%)	2.387(1.325-4.300)	0.004
Do you have friends or relatives who have received 9-valent HPV?					
No	952(61.54%)	571(67.18%)	381(54.66%)	Ref	/
Yes	595(38.46%)	279(32.82%)	316(45.34%)	1.388(1.083-1.780)	0.010
HPV can cause genital warts and certain cancers.					
No	541(34.97%)		208(29.84%)	Ref	/
Yes	1006(65.03%)		489(70.16%)	1.176(0.903-1.532)	0.228
HPV can only be transmitted through sexual behavior.					
No	1186(76.66%)		531(76.18%)	Ref	/
Yes	361(23.34%)		166(23.82%)	1.214(0.922-1.598)	0.166
Men can't be infected with HPV.					
No	1194(77.18%)		567(81.35%)	Ref	/
Yes	353(22.82%)		130(18.65%)	0.890(0.670-1.183)	0.423
9-valent HPV vaccination can effectively prevent HPV-related cancers.					
No	260(16.81%)		107(15.35%)	Ref	/
Yes	1287(83.19%)		590(84.65%)	0.678(0.450-1.022)	0.064
The best age for receiving the 9-valent HPV vaccine is before 26 years old.					
No	318(20.56%)		132(18.94%)	Ref	/
Yes	1229(79.44%)		565(81.06%)	0.817(0.578-1.155)	0.252
Are you in support of promoting the 9-valent HPV vaccine for men?					
No	855(55.27%)		244(35.01%)	Ref	/
Yes	692(44.73%)		453(64.99%)	5.337(4.182-6.811)	< 0.001

Do you think the authorized 9-valent HPV vaccine is safe?				
No	224(14.48%)	80(11.48%)	Ref	/
Yes	1323(85.52%)	617(88.52%)	0.835(0.547-1.274)	0.403
Do you think the 9-valent HPV vaccine could have unexpected side effects?				
No	975(63.03%)	455(65.28%)	Ref	/
Yes	572(36.97%)	242(34.72%)	0.631(0.494-0.805)	< 0.001
Do you think the authorized 9-valent HPV vaccine is effective?				
No	184(19.00%)	64(9.18%)	Ref	/
Yes	1363(81.00%)	633(90.82%)	0.895(0.556-1.441)	0.647
Would you recommend that your family and friends receive the 9-valent HPV vaccine?				
No	294(19.00%)	74(10.62%)	Ref	/
Yes	1253(81.00%)	623(89.38%)	3.359(2.281-4.948)	< 0.001

the P-value indicates whether the adjusted OR of particular sub-category is significant when compared with the reference category. OR: odds ratio; CI: confidence interval.