

Supplementary Materials

Table S1. Comparison of Cox regression model results for the evaluation of a possible confounding effect of age at event for time to negativization of a positive Pap smear. Model 1 is the univariate model, Model 2 is the model including age as a continuous variable and Model 3 is the model including age in 5 classes.

Variable	Model 1	Model 2	Model 3
HPV Vaccine			
No vaccine	1.00	1.00	1.00
1° dose	0.70 (0.36-1.33)	0.69 (0.36-1.32)	0.69 (0.36-1.32)
1°+2° dose	0.95 (0.60-1.52)	0.94 (0.59-1.50)	0.94 (0.59-1.51)
1°+2°+3° dose	2.66 (1.83-3.86) **	2.60 (1.79-3.78) **	2.58 (1.77-3.77) **
Age at event			
+1 yr		0.99 (0.97-1.00)	
<25			1.00
25-30			1.18 (0.71-1.99)
30-35			0.86 (0.49-1.51)
35-45			1.01 (0.58-1.74)
>45			0.77 (0.37-1.59)

- Results shown as HR (95% C.I.), * $p < 0.05$, ** $p < 0.0001$.

Table S2. Comparison of Cox regression model results for the evaluation of a possible confounding effect of treatment in the year before the 1st dose for time to negativization of a positive Pap smear. Model 1 is the univariate model, and Model 4 is the model including the history of a conization treatment in the year before the 1st dose.

Variable	Model 1	Model 4
HPV Vaccine		
No vaccine	1.00	1.00
1° dose	0.70 (0.36-1.33)	0.70 (0.36-1.33)
1°+2° dose	0.95 (0.60-1.52)	0.95 (0.60-1.52)
1°+2°+3° dose	2.66 (1.83-3.86) **	2.66 (1.84-3.87) **
Women who underwent a conization within a year before the 1st dose		
Not treated		1.00
Underwent a conization within 365 days before 1 st dose		1.05 (0.71-1.56)

- Results shown as HR (95% C.I.), * $p < 0.05$, ** $p < 0.0001$.

Table S3. Comparison of Cox regression model results for the evaluation of a possible confounding effect of age at event for time to negativization of an HPV HR+ test. Model 1 is the univariate model, Model 2 is the model including age as a continuous variable and Model 3 is the model including age in 5 classes.

Variable	Model 1	Model 2	Model 3
HPV Vaccine			
No vaccine	1.00	1.00	1.00
1° dose	1.35 (0.47-3.93)	1.34 (0.34-2.85)	1.32 (0.45-3.84)
1°+2° dose	2.07 (1.04-4.11) *	2.05 (1.03-4.09) *	2.01 (1.01-4.01) *
1°+2°+3° dose	7.80 (4.83-12.60) **	7.78 (4.82-12.58) **	7.56 (5.22-13.67) **

Age at event	
+1 yr	0.99 (0.97-1.02)
<25	1.00
25-30	1.92 (0.67-5.50)
30-35	1.90 (0.66-5.49)
35-45	2.01 (0.71-5.73)
>45	1.09 (0.32-3.72)

- Results shown as HR (95% C.I.), * $p < 0.05$, ** $p < 0.0001$.

Table S4. Comparison of Cox regression model results for the evaluation of a possible confounding effect of treatment in the year before the 1st dose for time to negativization of an HPV HR+ test. Model 1 is the univariate model, and Model 4 is the model including the history of a conization treatment in the year before the 1st dose.

Variable	Model 1	Model 4
HPV Vaccine		
No vaccine	1.00	1.00
1 ^o dose	1.35 (0.47-3.93)	1.32 (0.45-3.84)
1 ^o +2 ^o dose	2.07 (1.04-4.11) *	2.02 (1.01-4.02) *
1 ^o +2 ^o +3 ^o dose	7.80 (4.83-12.60) **	7.65 (4.72-12.38) **
Women who underwent a conization within a year before the 1st dose		
Not treated		1.00
Underwent a conization within 365 days before 1 st dose		1.28 (0.84-1.93)

- Results shown as HR (95% C.I.), * $p < 0.05$, ** $p < 0.0001$.