

Supplementary Data:

- **Supplementary Table 1: Sensitivity and specificity analyses of different sampling tests for HPV-16 detection, using PCR test as the reference (N=211)**
- **Supplementary Table 2: Sensitivity and specificity analyses of different sampling tests for HPV-11 detection, using PCR test as the reference (N=211)**
- **Supplementary Figure 1: Overall HPV subtypes frequency**

Supplementary Table 1. Sensitivity and specificity analyses of different sampling tests for HPV-16 detection, using PCR test as the reference (N=211)

	PCR test of HPV 16			Sensitivity, % (95% CI)	Specificity, % (95% CI)	PPV ¹ , % (95% CI)	NPV ² , % (95% CI)
	Negative (%)	Positive (%)	Totals (%)				
Clinician-sampled test							
Negative	189 (89.6)	4 (1.9)	193 (91.5)	81.8 (59.0, 94.0)	100.0 (97.5, 100.0)	100.0 (78.1, 100.0)	97.9 (94.4, 99.3)
Positive	0 (0.0)	18 (8.5)	18 (8.5)				
Totals	189 (89.6)	22 (10.4)	211 (100.0)				
Self-sampled test							
Negative	189 (89.6)	8 (3.8)	197 (93.4)	63.6 (40.8, 82.0)	100.0 (97.5, 100.0)	100.0 (73.2, 100.0)	96.0 (91.9, 98.1)
Positive	0 (0.0)	14 (6.6)	14 (6.6)				
Totals	189 (89.6)	22 (10.4)	211 (100.0)				

¹PPV refers to positive predictive value. ²NPV refers to negative predictive value.

Supplementary Table 2. Sensitivity and specificity analyses of different sampling tests for HPV-11 detection, using PCR test as the reference (N=211)

	PCR test of HPV 11			Sensitivity, % (95% CI)	Specificity, % (95% CI)	PPV ¹ , % (95% CI)	NPV ² , % (95% CI)
	Negative (%)	Positive (%)	Totals (%)				
Clinician-sampled test							
Negative	187 (88.6)	6 (2.8)	193 (91.5)	75.0 (52.9, 89.4)	100.0 (97.5, 100.0)	100.0 (78.1, 100.0)	96.9 (93.0, 98.7)
Positive	0 (0.0)	18 (8.5)	18 (8.5)				
Totals	187 (88.6)	24 (11.4)	211 (100.0)				
Self-sampled test							
Negative	187 (88.6)	3 (1.4)	190 (90.0)	87.5 (66.5, 96.7)	100.0 (97.5, 100.0)	100.0 (80.8, 100.0)	98.4 (95.1, 99.6)
Positive	0 (0.0)	21 (10.0)	21 (10.0)				
Totals	187 (88.6)	24 (11.4)	211 (100.0)				

¹PPV refers to positive predictive value. ²NPV refers to negative predictive value.

Supplementary Figure 1. Overall HPV subtypes frequency

