# Can HPV DNA self-sampling be an acceptable and reliable option for cervical cancer screening in female sex workers?

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#### **ABSTRACT**

## **Background:**

The causal relation between human papillomavirus (HPV) and cervical cancer has enabled HPV self-sampling to be envisaged as a possible screening method.

## **Objectives:**

To explore the acceptability and reliability of HPV DNA self-sampling as an alternative option for cervical screening among female sex workers.

#### **Methods:**

Sixty-eight female sex workers carried out self-sampling for HPV testing, gave a clinicianobtained sample for HPV testing and a Pap smear. After the two samplings, the participants were questioned on the acceptability of the tests.

## **Results:**

Most participants (65.6%) preferred to adopt HPV DNA self-sampling in the future, in particular, those without previous experience of Pap smears marginally significantly preferred self-sampling (86.7%, p = .055). The overall crude agreement in HPV detection rates between HPV DNA self-sampling and clinician sampling was 85.3% (58/68) with a kappa of 0.69 (95% confidence

interval, 0.51–0.87). The sensitivity and specificity of self-collected samples were 66.7% and 66.1%, and the positive and negative predicted values were 24.0% and 92.5%, respectively. The prevalence of HPV was slightly higher in self-collected samples (39.7%, 27/68) than in clinician-collected samples (36.8%, 25/68). The participants expressed positive attitudes toward self-sampling, but were less confident in their skills of self-sampling compared with clinicians (70.6% versus 91.2%).

## **Conclusions:**

The clinical findings showed that self-sampling could be incorporated into current cervical cancer screening approaches.

# **Implications for practice:**

Self-sampling could potentially increase the response rate/compliance to cervical cancer screening and thus reduce the morbidity and mortality from cervical cancer. Further research and education on self-sampling will be required for women of diverse backgrounds in Hong Kong, China.