

Home-based self-sampling of first-void urine as a valuable and accessible HPV screening method during and after the COVID-19 pandemic

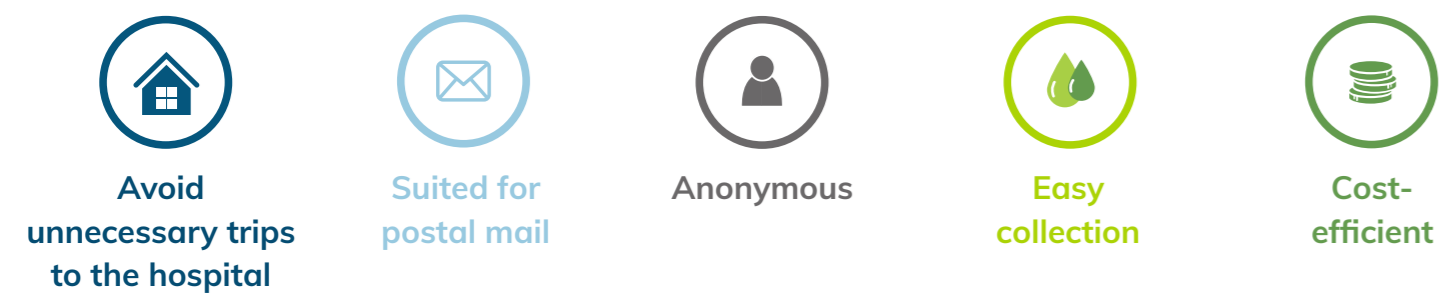
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INTRODUCTION

The COVID-19 pandemic has impacted cancer screening and the global cervical cancer elimination goals. Home-based urine sampling offers the potential to continue care and essential medical services. It furthermore provides a solution to reach more people and increase participation rates in screening populations. To allow for distribution to the patient's home and for the return of the collected sample to the lab, Novosanis developed a postal kit compliant with UN3373 regulations as well as the Colli-Pee® Small Volumes device for first-void urine home-based self-sampling.

Benefits of home-based urine sampling



METHODS

Usability data collected from 3 studies was compiled to evaluate the use of Colli-Pee® in a home-based setting. A total of 163 adults were included in the studies, of which 68 men and 95 women. A questionnaire was completed by the participants after collection and return handling.

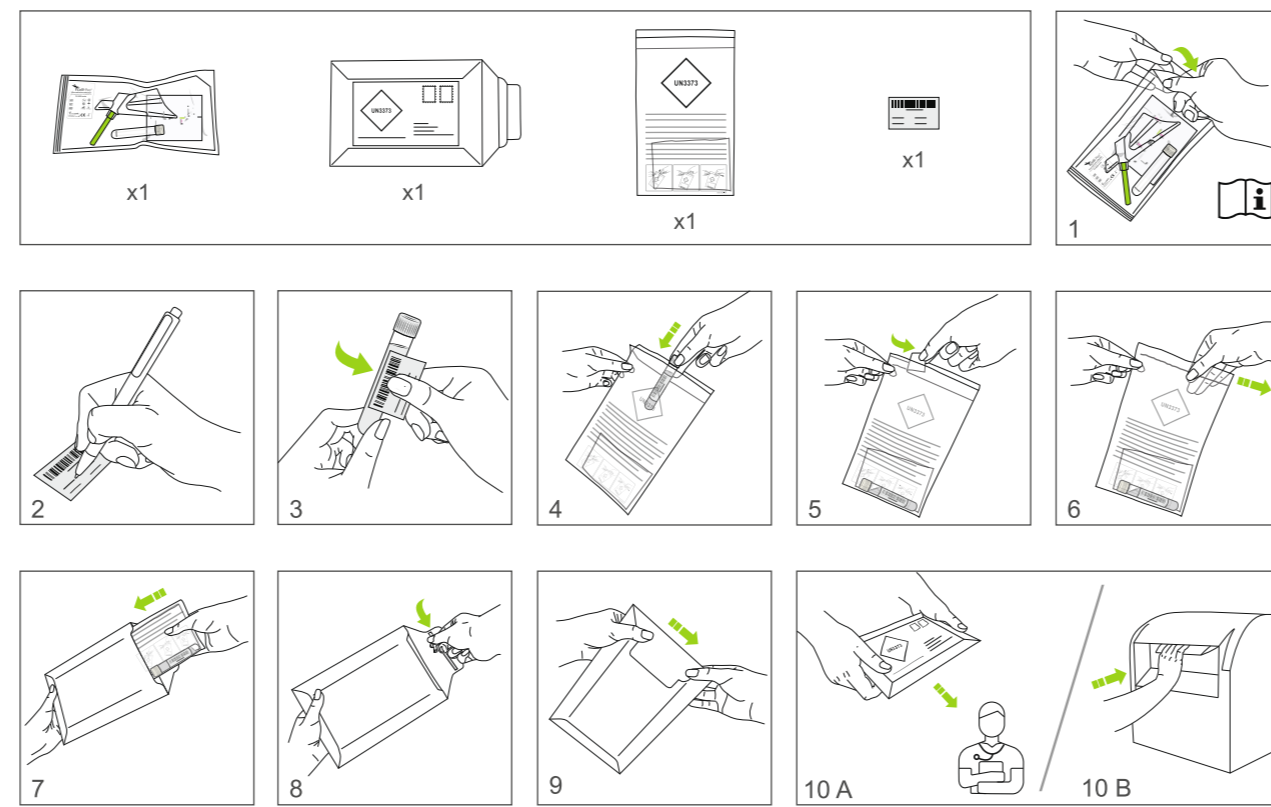


Figure 1: Return instructions of the postal kit

RESULTS

The results show that returning the package was clear for 93.8% of the participants (n=103, 2 studies) and considered easy by 93.3% of participants (n=163, 3 studies). For a next urine collection with Colli-Pee®, 85.7% would prefer to do it at home (n=84, 1 study). Using Colli-Pee® to collect a urine sample was considered a good method for home-based sampling by 80.9% (n=84, 1 study) of the participants.

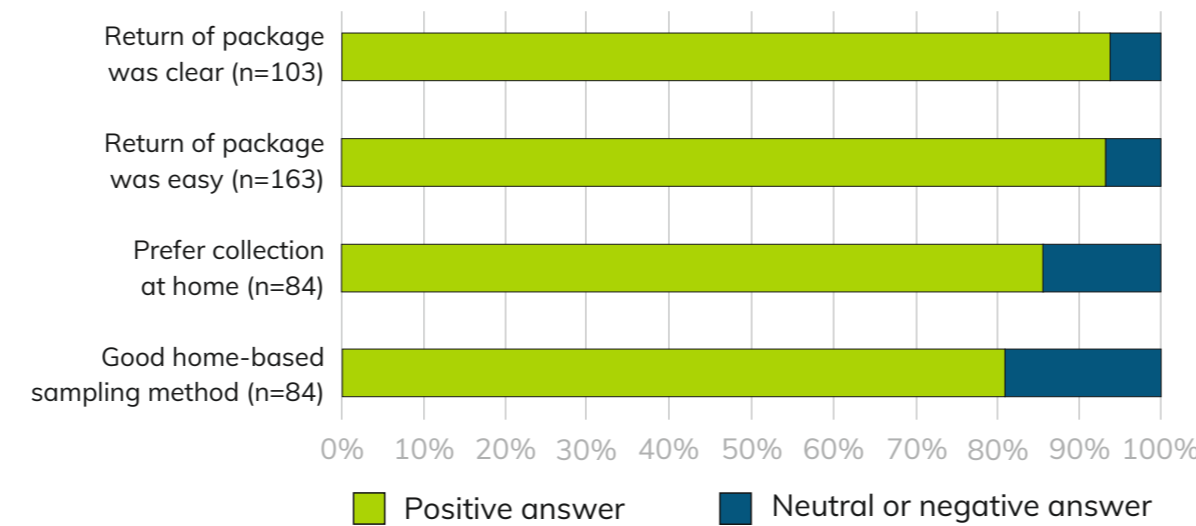


Figure 2: Usability results for the Colli-Pee® postal kit

In addition, other HPV self-sampling studies showed that 70.1% of all participants (n=838) preferred self-sampling (vaginal or urine) over sampling by a physician for screening. Among women preferring self-sampling (n=588), 65.5% would choose for urine collection, 30.3% for vaginal self-collection and 4.2% had no preference.

Urine sampling with Colli-Pee®, was considered easy by 94.8% of participants (n=955).

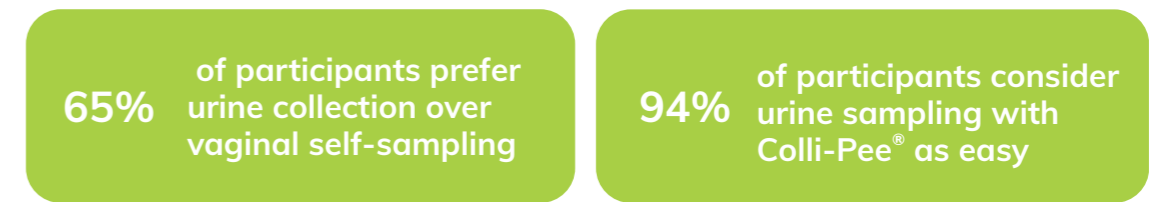


Figure 3: Example of the Colli-Pee® postal kit

CONCLUSION

Home-based urine self-sampling with Colli-Pee® Small Volumes, in combination with the Postal Kit, is a valuable and well-accepted tool for HPV screening.