

Usability evaluation of Colli-Pee Small Volumes for HPV-based cervical cancer screening (CASUS)

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INTRODUCTION

As part of the CASUS project (NCT04530201) insights are gained on the usability of Colli-Pee[®] Small Volumes as first-void urine (FVU) collector allowing for detection of HPV and other biomarkers of interest, and subsequently allowing for detection of high-grade cervical precancerous lesions able to cause cervical cancer when left untreated.

METHODS

To evaluate the usability of Colli-Pee[®] Small Volumes* for HPV-based cervical cancer detection, user feedback from a colposcopy referral population enrolled in CASUS was captured in questionnaires. Participants collected two FVU samples the day before colposcopy and completed an online usability questionnaire. Additionally, a cervical sample was collected by a physician with the Cervex Brush (Rovers) as a comparator. Besides answers on sample preference and general ease of use, a usability score for Colli-Pee[®] Small Volumes* was obtained through the Systems Usability Scale (SUS). A SUS score greater than 68 is considered good.



Figure 1: visual representation of CASUS methods

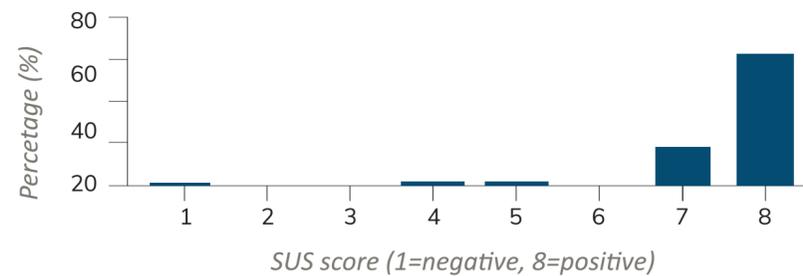
RESULTS

1) SUS score

A total of 204 women have answered the usability questionnaire during the study and 197 valid SUS scores were obtained. Participants perceived that the sample collection went well using Colli-Pee[®].

Average SUS score of 85.49 +/- 15.60

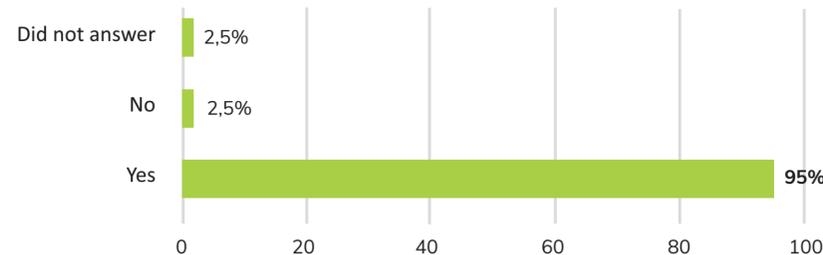
Do you have the impression that the sample collection went well?



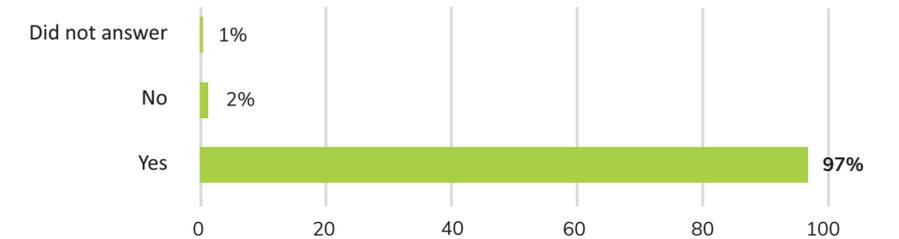
2) General ease of use and sample preference

95% of participants answered that Colli-Pee[®] Small Volumes was easy to use and 97% would use the device again. Moreover, 57% of the participants preferred FVU self-sampling over a physician taken smear for cervical cancer screening.

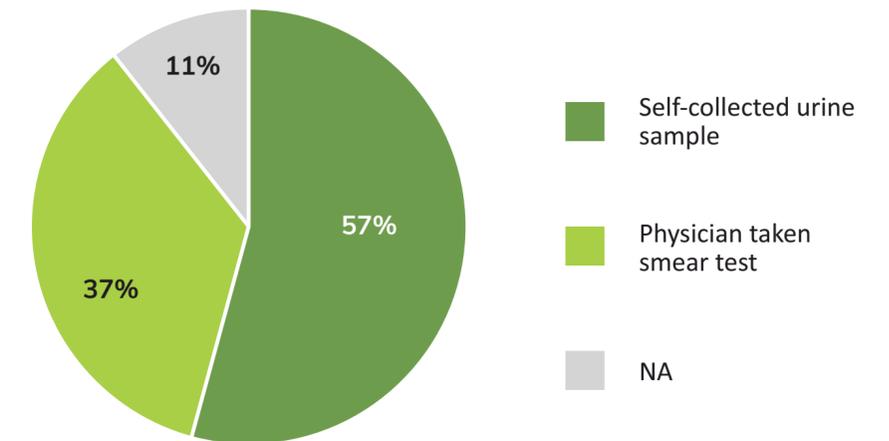
Is Colli-Pee[®] easy to use?



Would you use Colli-Pee[®] again?



Sample preference for cervical cancer screening



CONCLUSION

The results show that Colli-Pee[®] Small Volumes is a well-accepted and easy to use self-sampling device for cervical cancer screening by women referred to colposcopy. The average SUS score obtained was over 80.3 suggesting that the Colli-Pee[®] Small Volumes is rated as excellent.

A light preference of FVU self-sampling over a physician taken smear for cervical cancer screening was seen.

*Colli-Pee Small Volumes IVD was used in this study