First-void urine self-sampling for hrHPV testing in cervical cancer screening: sample preference from a Belgian triage population

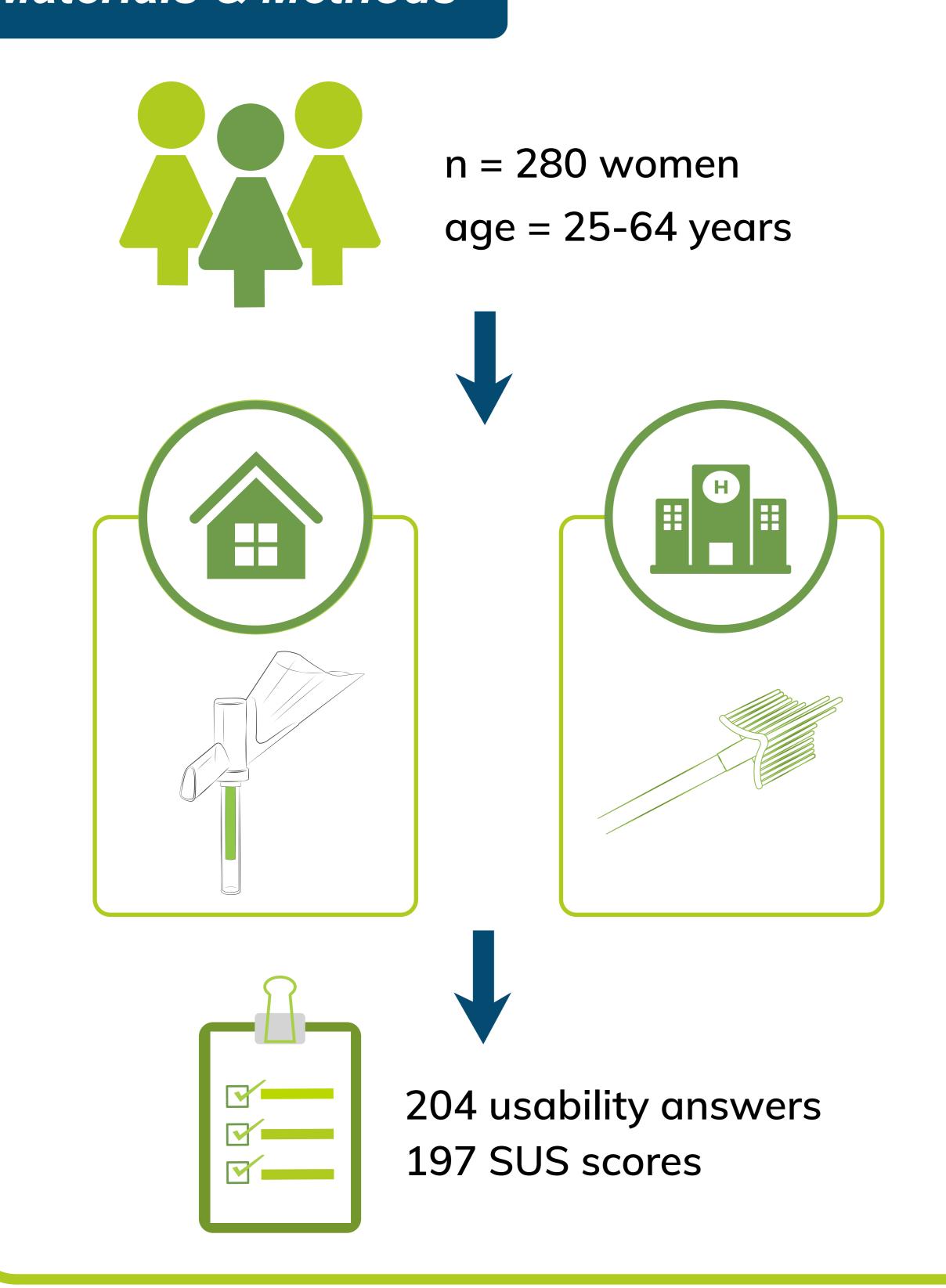
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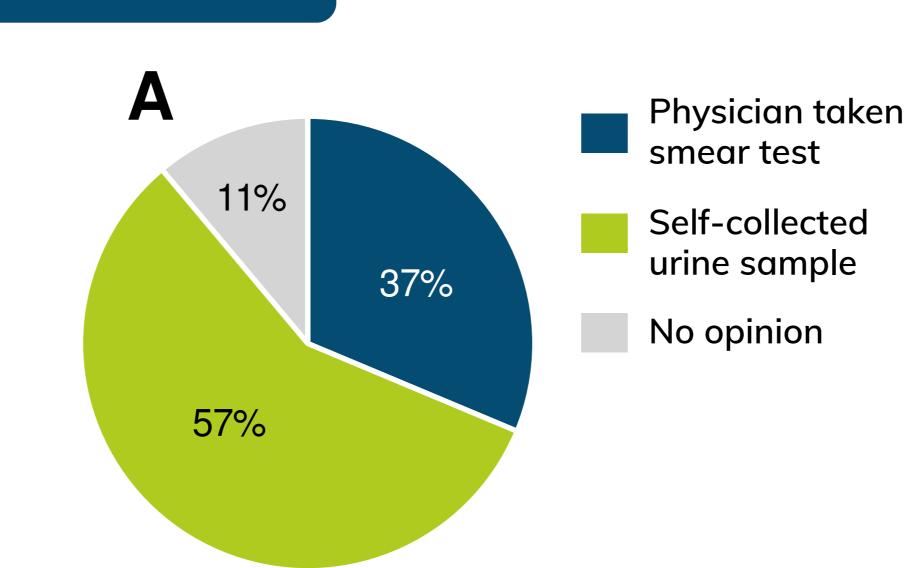
Objective

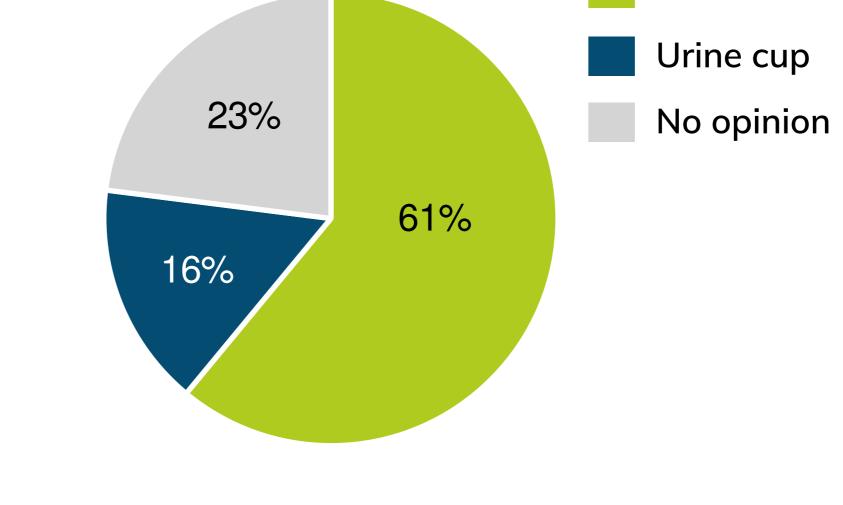
Here, we report intermediate usability results of the CASUS study (NCT04530201, Belgium) aiming at developing the first fully molecular integrated cervical cancer (CC) screening based on first-void urine (FVU) as a liquid biopsy.

Materials & Methods

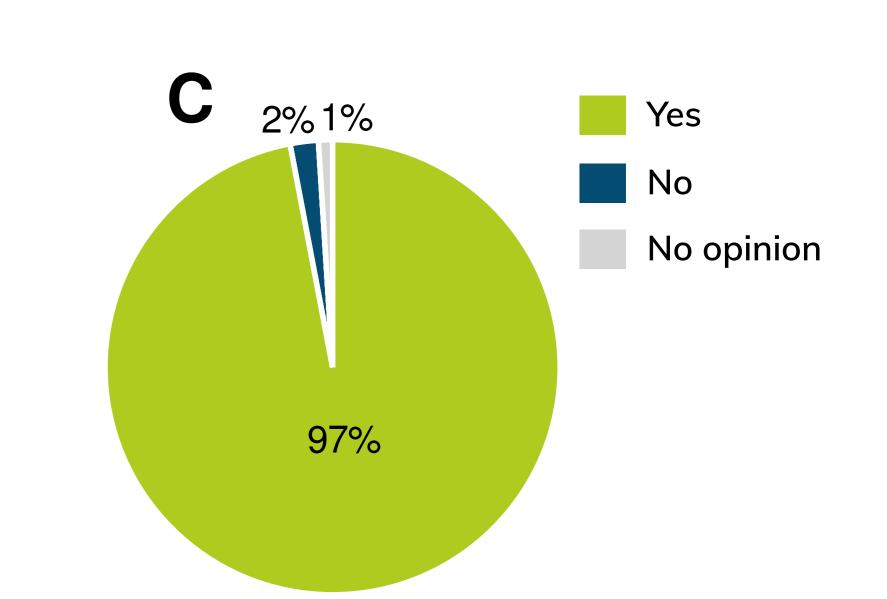


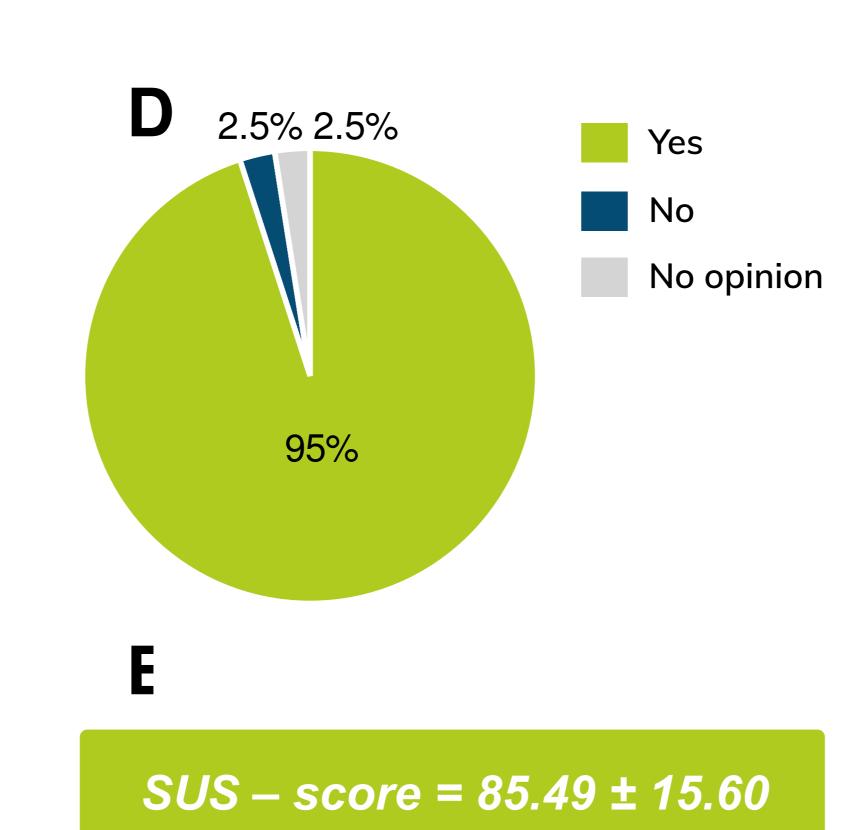
Results





B





Sample preference and usability results of participants enrolled in the CASUS study for CC screening. A | Sample type preference answers. 57% of participants indicated to prefer a self-collected urine sample compared to 37% of participants preferring a sample taken by a physician and 11% without a preferential opinion. B | Preference answers of urinary self-sampling. 61% of participants indicated to prefer the use of the Colli-Pee® Small Volumes device CE) compared to 16% of participants preferring a urine cup and 23% without a preferential opinion. C | Usability answers of the Colli-Pee® Small Volumes device (CE). 97% of participants indicated they would use of the Colli-Pee® Small Volumes device again compared to 2% of participants who would not and 1% with no preferential opinion. D | Recommendation of the Colli-Pee® Small Volumes device (CE). 95% of participants indicated to recommend the Colli-Pee® Small Volumes device (CE) compared to 2.5% of participants who would not and 2.5% without a preferential opinion. E | Average calculated System Usability Scale (SUS) for usability performance. A SUS-score > 80.3 (Grade A) is considered excellent.

Colli-Pee

Conclusion

The results of this study show that Colli-Pee® Small Volumes is an easy-to-use and well-accepted FVU self-sampling device for CC screening and triage in a colposcopy referral population. From a future perspective, these results highlight the advantage of using urine as a liquid biopsy in CC screening where triage and screening of a larger populations could be achieved using a single FVU sample that can be collected at home.

