



GAME-CHANGING SAMPLING DEVICES

[“357 million new cases of curable sexually transmitted infections occurred in 2012 (WHO estimates)”]

TOWARDS A WORLD WITHOUT SEXUALLY TRANSMITTED INFECTIONS

Sexually transmitted infections (STI's) continue to be an important cause of morbidity and mortality worldwide. Screening can reduce the burden. But many populations face barriers to screening: lack of services and transport, stigma, confidentiality concerns, cost and lack of knowledge and awareness about STI's.¹

Improvements in screening rates for sexually transmitted infections can be achieved with home-based screening methods using self-collected samples such as first-void urine.

As the concentration of *Chlamydia* sharply decreases during urination, it is important to use the first fraction of micturition.²



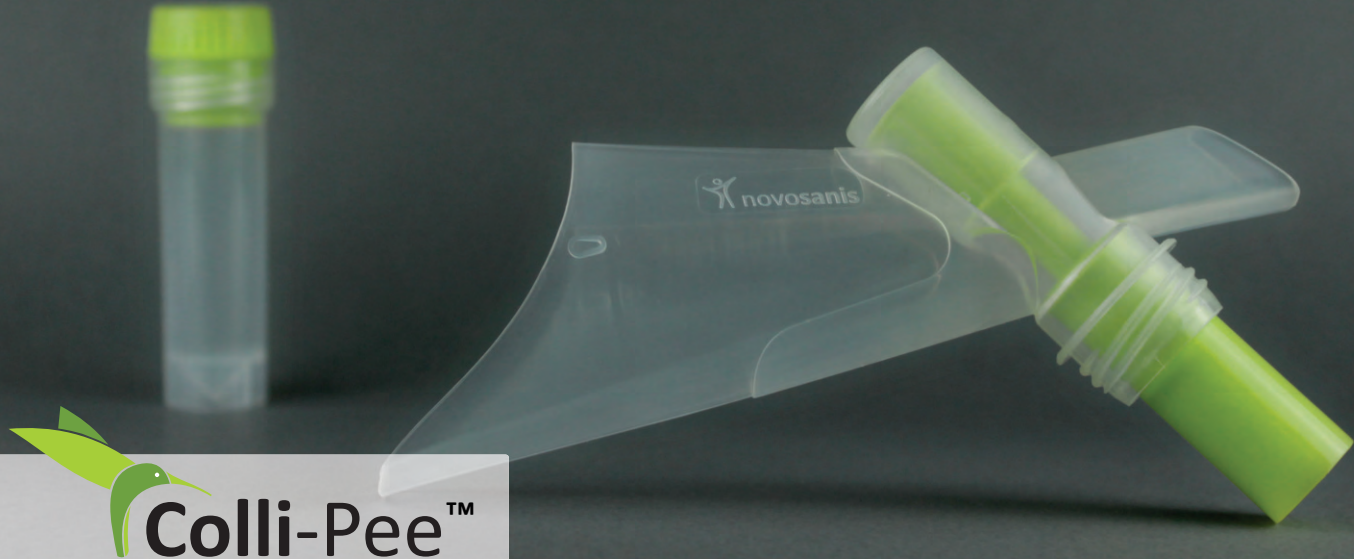
70% OF COUNTRIES HAVE STI SURVEILLANCE SYSTEMS IN PLACE



357 MILLION NEW INFECTIONS EVERY YEAR



SUITED FOR ONLINE STI SAMPLING



Colli-Pee™

COLLI-PEE™ An innovative approach to improve the quality of STI testing

“Thanks to the availability of sensitive molecular diagnostic tests and self-sampling devices for non-invasive samples like urine, it’s feasible to conduct STI screening in non-clinical settings increasing the participation rate of difficult to reach high-risk populations.”

- Guaranteed and standardized first-void urine collection
- Allows hygienic and non-invasive self-sampling (at home)
- No need to interrupt the urine flow
- Collector tube prefillable with preservative

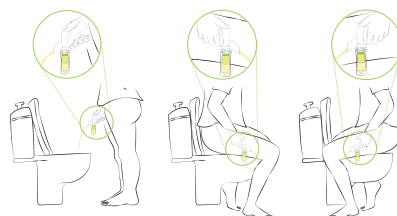
["A recent review reported that home-based STI screening resulted in up to 11 times higher testing rates compared to the clinic-based screening"]³



1. Uncap



2. Assemble



3. Collect first-void urine



4. Disassemble



5. Recap

COLLI-PEE™ Outperforms routine urine collection for the detection of STI's

The use of the Colli-Pee™ collection device in a Belgian HIV prevention study among Men who have Sex with Men (MSM) resulted in the additional detection of 6 STI's (1 more *Chlamydia trachomatis*, 2 more *Neisseria gonorrhoeae*, 4 more *Mycoplasma genitalium* and 1 *Mycoplasma genitalium*) compared to the use of the regular urine cup.

Colli-Pee™ was highly valued by the participants of the HIV prevention study, conducted at the Institute of Tropical Medicine in Antwerp.⁴

- 88% found it very easy to use
- 90% found it easy to ship via postal mail

[Colli-Pee™ is more convenient for first-void urine collection at home and allows to detect more STI's.]

CT	Routine urine sample		
Colli-Pee™	Positive	Negative	Total
Positive	5	1	6
Negative	0	327	327
Total	5	328	333

NG	Routine urine sample		
Colli-Pee™	Positive	Negative	Total
Positive	5	2	7
Negative	0	326	326
Total	5	328	333

MG	Routine urine sample		
Colli-Pee™	Positive	Negative	Total
Positive	20	4	24
Negative	1	308	309
Total	21	312	333

TV	Routine urine sample		
Colli-Pee™	Positive	Negative	Total
Positive	0	0	0
Negative	0	333	333
Total	0	333	333



**GUARANTEED
FIRST-VOID**



**STANDARDIZED
SELF-SAMPLING**



**USER
FRIENDLY**

COLLI-PEE™ For customized standardized first-void urine collection

As a trusted partner of diagnostic companies, Novosanis develops customized versions of Colli-Pee™ for improved diagnostic accuracy and patient comfort. Bespoke tube design allows high-throughput processing, centrifugation and workflow optimization.



Colli-Pee™

Successful automation
starts with sampling



Colli-Pee™

Successful automation
starts with sampling



UCM-Preservative

1. Hengel B et al. *BMC Public Health* 2013 13:1040.
2. Meyer T. *Microorganisms* 2016;4(3):E25
3. Shih SL et al: *Curr Opin Infect Dis.* 2011; 24(1): 78–84
4. De Baetselier I et al: *World STI conference 2017, R o de Janeiro, Brazil, poster #P1.25*