



Fast and Accurate Diagnosis
of Chlamydia and Gonorrhea

■ Xpert[®] CT/NG





Xpert® CT/NG

On-demand STD Results.
You Want It. They Need It.

The majority of Chlamydia trachomatis (CT), and Neisseria gonorrhoeae (NG) infections are asymptomatic.¹



The Need

Chlamydia and gonorrhoea are the most prevalent, treatable Sexually Transmitted Infections (STIs).² If left untreated, complications can include infertility, pelvic inflammatory disease, and pregnancy complications.^{2,3}

WHO STI Testing Guidelines:⁴

- Accurate diagnostic tests for STIs (using molecular technology) are largely unavailable in low- and middle-income countries (LMICs) for chlamydia and gonorrhoea. It is often expensive, not widely accessible and results take a long time. As a result, follow-up can be impeded and care or treatment can be incomplete.
- STI treatment based on laboratory diagnosis using molecular assays is recommended in settings where fully operational quality management systems are available.

South Africa's National Strategic Plan for HIV, TB & STI's 2023-2025:⁵

- There has been no significant decline in chlamydia and gonorrhoea cases over almost 30 years despite large investments in HIV/STI programmes due to significant overtreatment of people with symptoms and undertreatment of asymptomatic infections
- Screening for STIs using diagnostic tests should be followed by specific pathogen-directed treatment to shorten the duration of infection, reduce ongoing transmission, reduce complications, and ultimately result in a lower STI prevalence in populations.
- Diagnostic screening of asymptomatic can identify those patients that would remain untreated using the symptom-based screening approach.

In the case of diagnostic testing, detection of *C. trachomatis*, *N. gonorrhoeae* and *T. vaginalis* should be done using NAATs.⁶



The Impact

Provide fast patient results to:

- Reduce patient anxiety with immediate results
- Improve patient satisfaction
- Prevent disease spread in the community
- Reduce unnecessary use of antibiotics



The Solution

Now you can test and treat the patient on the same day. Based on GeneXpert® technology, Xpert® CT/NG automates the test process including DNA extraction, amplification, and detection in one fully integrated cartridge in around 90 minutes.

- Accurate on-demand RT-PCR results are ready when you need them
- On-demand and in-visit results reduce patient call-backs, overtreatment, undertreatment and patients lost to follow-up
- Patient collected specimens can create operational efficiencies
- Same patient sample can be utilized for all tests
- All specimen types are cleared for asymptomatic and symptomatic patients

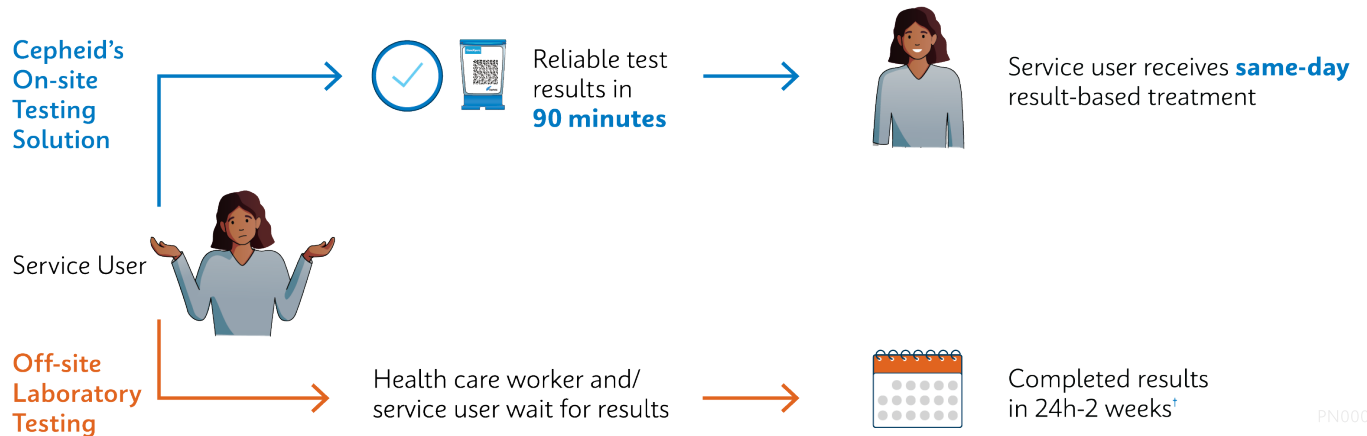
Coverage, plus
Accuracy, plus
Peace of mind

That's the **PCR_{plus}** advantage.
From Cepheid.

Impact on Patient Pathway

Improving Patient Satisfaction

Xpert CT/NG provides medically actionable information to clinicians enabling same-day treatment for chlamydia and gonorrhea.



PN0003-01

Clinical Performance[†]

	Xpert CT/NG		Xpert CT/NG	
	CT	NG	CT	NG
Patient Collected Vaginal Swab				
Sensitivity	99.5%	100%	98.1%	94.4%
Specificity	99.1%	99.9%	99.8%	>99.9%
Endocervical Swab				
Sensitivity	96.0%	100%	98.5%	98.3%
Specificity	99.6%	>99.9%	99.8%	99.9%
Female Urine				
Sensitivity			98.5%	98.3%
Specificity			99.8%	99.9%
Male Urine				
Sensitivity			86.0%	91.2%
Specificity			99.4%	99.6%
Pharyngeal Swab				
Sensitivity	95.9%	94.7%		
Specificity	99.7%	98.8%		
Rectal Swab				
Sensitivity			86.0%	91.2%
Specificity			99.4%	99.6%

PN0006-01

Workflow: 3 Easy Steps

1

Obtain swab samples in the Cepheid Transport Reagent



2

Transfer sample to cartridge



3

Insert cartridge and start test



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Catalog Information

Specimen kits required for primary sample collection and treatment

GXCT/NGX-CE-10	10 tests	Xpert CT/NG
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Catalog Information

Specimen kits required for primary sample collection and treatment

GXCT/NGX-CE-10	50 tests ready-to-use individual kits	Xpert Swab Specimen Collection Kit
GXCT/NGX-CE-120	50 tests ready-to-use individual kits	Xpert Urine Specimen Collection Kit

CE-IVD. *In Vitro* Diagnostic Medical Device. May not be available in all countries.

† All performance results at 95% confidence interval. For details refer to Xpert CT/NG Package Insert 302-0538, Rev B.

* STD – Sexually Transmitted Diseases

^ NAAT – Nucleic Acid Amplification Test

References:

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- Guidelines for the management of symptomatic sexually transmitted infections. Geneva: World Health Organization; 2021. Available from: <https://www.who.int/publications/i/item/9789240024168>
- Peter RPH et al. Southern African HIV Clinicians Society 2022 guideline for the management of sexually transmitted infections: Moving towards best practice. *S Afr J HIV Med.* 2022 Sep 27;23(1):1450. doi: 10.4102/sajhivmed.v23i1.1450 Available from: <https://sahivsoc.org/Files/SAHCS%202022%20STI%20guidelines.pdf>

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