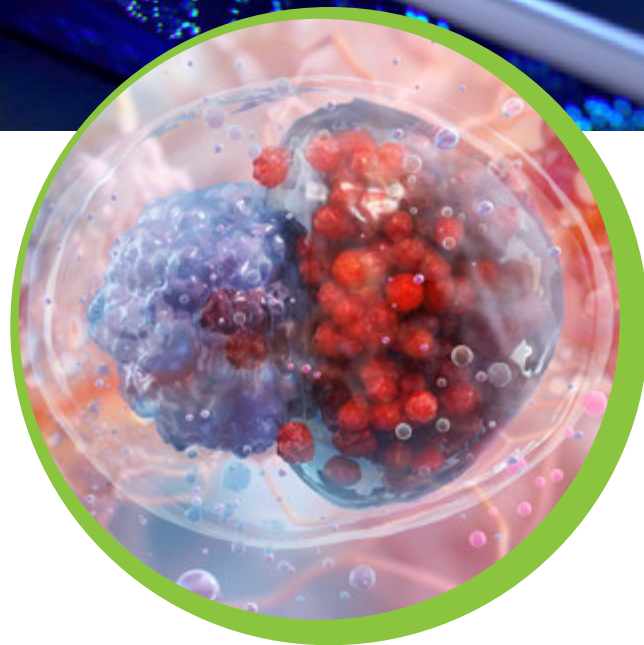


Timely, accurate, actionable,  
and cost effective molecular  
diagnostics results

## Advanced PCR Testing for Accurate STI Pathogen Detection

### Why Choose PCR Testing?

PCR (Polymerase Chain Reaction) is a highly sensitive and accurate method for detecting pathogens, even in the early stages of infection. Our advanced testing provides you with reliable results quickly, so you can get the treatment you need and protect your partners.



#### Exceptional Accuracy

PCR tests are renowned for their high sensitivity and specificity. Studies show sensitivity rates often **exceeding 95%** and specificity rates **above 98%** for common pathogens like Chlamydia trachomatis (CT) and Neisseria gonorrhoeae (NG). This means they are highly accurate at detecting infections.



#### Superior to Traditional Methods

PCR testing is significantly more reliable than older diagnostic methods. For instance, it can detect up to **30% more chlamydia-infected** women than traditional cell cultures. For Trichomonas vaginalis (TV), PCR is far more sensitive than microscopic examination, which can miss up to 40% of cases.



#### Detection of Asymptomatic Infections

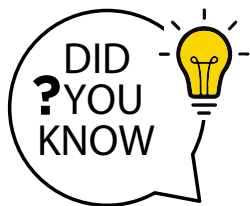
A major public health benefit of PCR testing is its ability to detect pathogens even when the patient has no symptoms. The high sensitivity of PCR can find a very low concentration of the pathogen's DNA, making it a powerful tool for screening large populations and preventing further transmission.



#### Non-Invasive Sample Collection

PCR tests can be performed on non-invasive samples, such as a urine. This makes testing more comfortable and accessible for patients, which can lead to higher screening rates.

# Protect Your Health and Community



**Memphis has a high rate of STIs?** According to the CDC, Memphis is one of the top cities in the country for high STI infection rates. Shelby County has the highest caseload of chlamydia in the entire state.

Our laboratory offers confidential and reliable PCR testing for a range of sexually transmitted pathogens, including:

**NG** - Neisseria gonorrhoeae (Gonorrhea)

**CT** - Chlamydia trachomatis (Chlamydia)

**MG** - Mycoplasma genitalium

**TV** - Trichomonas vaginalis

## CT

### PREVALENCE

#### Globally

2020: Approximately 129 million cases

#### United States

2024: Approximately 1.5 million cases

### IMPACT

A significant number of cases, particularly in women, are asymptomatic, leading to untreated infections that can result in serious long-term complications such as pelvic inflammatory disease (PID), chronic pain, and infertility.

## NG

### PREVALENCE

#### Globally

2020: Approximately 82.4 million cases

#### United States

2024: Approximately 543,000

### IMPACT

A major global public health threat primarily due to its ability to develop resistance to every class of antibiotic used to treat it, including the last line of defense, ceftriaxone. Also has very similar impact to chlamydia due to most infections being asymptomatic.

## TV

### PREVALENCE

#### Globally

2020: Approximately 156 million cases

#### United States

2024: Estimates of approximately 3.7 million cases

### IMPACT

Similar to chlamydia, most infections are asymptomatic. Untreated trichomoniasis in women can lead to complications such as vaginitis and PID. It is also associated with an increased risk of HIV transmission and acquisition.

## MG

### PREVALENCE

Lack of Global Case Count  
Since MG is not a globally notifiable disease, studies have shown that the prevalence of MG can vary, but in some high-risk populations, it can be as common as, or even more prevalent than, chlamydia.

### IMPACT

MG is a known cause of nongonococcal urethritis (NGU) in men and is linked to cervicitis, PID, and infertility in women. A major concern is the high rate of macrolide resistance, which can make treatment with common antibiotics like azithromycin ineffective.



## Want to Learn More?

Let us show you how advanced molecular diagnostics can transform your STI care outcomes.

**Let's Talk**

Call, email, or scan for more info

**800-454-2137**

**info@chronetyx.com**

