



Urinary Tract Infection (UTI) Testing



ELITE CLINICAL
LABORATORY

CLIA Code:45D1061571 | Lab Director: Albert Chen M.D.
Address: 3600 S Gessner Rd Suite #110, Houston, TX 77063
Phone: 281-378-2116 Fax: 281-466-2483

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Ultimately, final medical decisions are made by your respective healthcare provider.

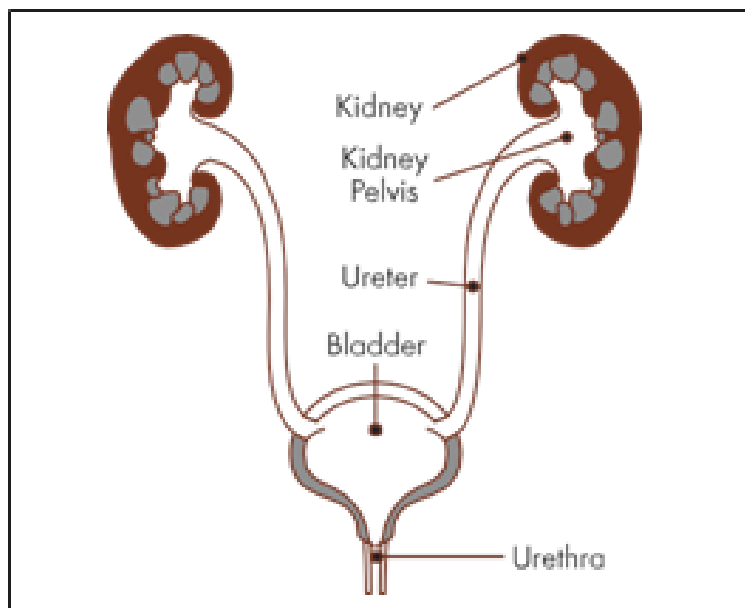
Urinary Tract Infection (UTI)

Did you know that...

- Urinary tract infections (UTIs) are responsible for nearly 10 million doctor visits each year.
- One in five women will have at least one UTI in her lifetime. Nearly 20 percent of women who have a UTI will have another, and 30 percent of those will have yet another. Of this last group, 80 percent will have recurrences.
- About 80 to 90 percent of UTIs are caused by a single type of bacteria.
- UTIs can be treated effectively with medications called antibiotics.
- People who get repeated UTIs may need additional tests to check for other health problems.
- UTIs also may be called cystitis or a bladder infection.

What is a urinary tract infection?

A urinary tract infection is what happens when bacteria (germs) get into the urinary tract (the bladder) and multiply. The result is redness, swelling and pain in the urinary tract (see diagram).



Most UTIs stay in the bladder, the pouch-shaped organ where urine is stored before it passes out of the body. If a UTI is not treated promptly, the bacteria can travel up to the kidneys and cause a more serious type of infection, called pyelonephritis (pronounced pie-low-nef-right-iss). Pyelonephritis is an actual infection of the kidney, where urine is produced. This may result in fever and back pain.

What causes a uti?

About 80 to 90 percent of UTIs are caused by a type of bacteria. These bacteria normally live in your intestines, but they sometimes get into the urinary tract. Some UTIs are caused by other, less common types of bacteria.

How to detect them?

Urine Culture or PCR based tests.

Why PCR Test?

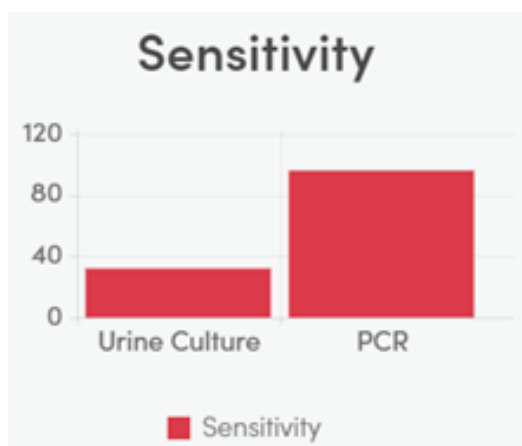
Since the 1950s, urine culture has been the gold standard for diagnosing Urinary Tract Infections (UTI). Although molecular diagnostic approaches with their DNA amplification techniques have replaced outdated diagnosis methods for some infections, UTIs are still generally diagnosed as they have been for decades - by urine culture.

Standard culture presents significant limitations for detection of the full spectrum of urinary bacterial species due to slow growing bacteria that die in the presence of oxygen. Faster and more accurate diagnostic methods are available today but, there is still a missing component to begin defining a cure - Effective Antimicrobial Susceptibility Testing (AST).

Most PCR-based diagnostic efforts focus heavily on defining optimal uropathogen colony counts to diagnose UTIs. Meanwhile, very minimal diagnostic efforts are devoted to identifying a specific antibiotic treatment to eradicate the infection.

Culture vs PCR

- 67% of uropathogens are missed with standard urine culture and 50% in patients with severe urinary symptoms (1).
- UTIs are some of the most common bacterial infections, affecting 150 million people each year worldwide (2).
- Studies have shown that depending on the population, up to 80% of urine cultures are negative, underlining the need for more effective methods of diagnosis (3).



Elite Clinical Laboratory : Your True Diagnostic Partner in Fighting the Antibiotic Resistance

Elite Clinical Laboratory versatile UTI plus Antibiotic susceptibility panel detects a range of common to uncommon UTI infections with their antibiotic susceptibility or resistance profile in less than 50hours.

Elite Clinical Laboratory UTI+ASI PCR panel is the ultimate solution for clinicians with patients suffering from Urinary Tract Infections (UTIs), cystitis, prostatitis or other types of infections associated with bacteria in the Urinary Tract (UT). Our test offers unmatched accuracy and efficiency for patients.

24-48 HRS TURNAROUND TIME

Not Detected test results are available within 24 hours and positive results are available within 48 hours complete with antibiotic recommendations

24 PATHOGENS DETECTED

TxDx UTI+ASI panel can identify up to 24 pathogens and antibiotic resistance genes with precise bacterial count using real time PCR DNA analysis.

PERSONALIZED TREATMENT PLAN

TxDx testing platform accurately diagnoses and reports a definitive treatment recommendation for each individual patient.

TxDx UTI+ASI Real-Time PCR Panel

List of Pathogens:

List of Antibiotic Resistance genes:

"Dedicated towards betterment"

Elite Clinical Laboratory is a full service, national diagnostic testing laboratory headquartered in Houston, Texas with concentrations in clinical diagnostics, toxicology, genetic sequencing and molecular testing. Elite Clinical Laboratory is devoted to redefining diagnostic services by providing medical practitioners and their patients with exceptional customer service paired with the most advanced and informative medical analytics to assist them in making effective treatment decisions.

Elite Clinical Laboratory fully automated laboratory utilizes state-of-the-art technologies to deliver high quality test results and service while exceeding the turnaround time requirements and demands of our physician clients. Elite Clinical Laboratory currently analyzes samples for hundreds of thousands of patients per year from providers and healthcare facilities all across the nation.

As our clients have trusted our laboratory with being an analytical and integral part of their patients' diagnosis and treatment process, we believe in respecting that trust with continuous dedication to customer satisfaction and support. We join our clients and physicians in their belief that patient care is and always will be the number one priority. Elite's personalized support and professional service continues to exceed the expectations of our valued clients, providers and facilities. More healthcare facilities and providers, in private practices, in hospitals and in long term care facilities, are placing their trust in Elite Clinical Laboratory; and, together we are transforming advanced diagnostic information into knowledge and superior treatment options for more and more patients every day.

