OMNIHEALTH
DIAGNOSTICS

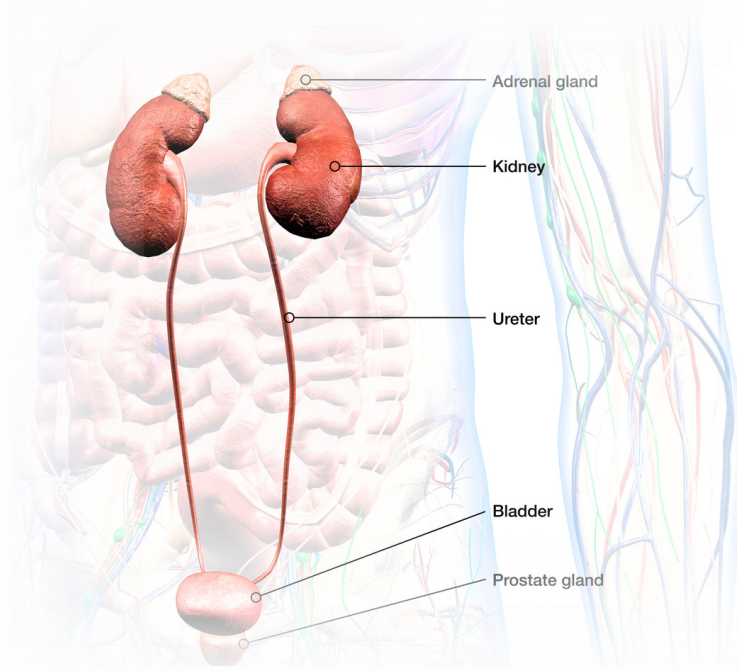
URINARY TRACT INFECTION (UTI) TESTING

DID YOU KNOW...

- 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 TESTING?

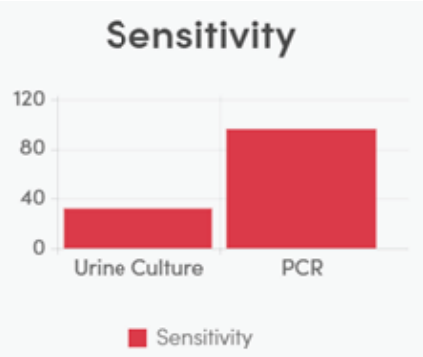
Since the 1950s, urine culture has been the gold standard for diagnosing Urinary Tract Infections (UTI). Although molecular diagnostic approaches with their DNA amplification techniques have replaced outdated diagnosis methods for some infections, UTIs are still generally diagnosed as they have been for decades - by urine culture.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



OMNIHEALTH DIAGNOSTICS: **YOUR TRUE DIAGNOSTIC PARTNER IN FIGHTING THE ANTIBIOTIC RESISTANCE**

OmniHealth Diagnostics 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.

OmniHealth Diagnostics 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.