

Antibiotic Stewardship

- Each year in the US, 2 million people acquire serious bacterial infections that are resistant to one or more prescribed antibiotics, and at least 23,000 people die as a direct result of these antibiotic-resistant infections.
- An estimated 55% of antibiotic prescriptions for infections are unnecessary.
- The misuse of antibiotics costs the US healthcare system over \$20 billion each year.

Implications of Antibiotic Resistance

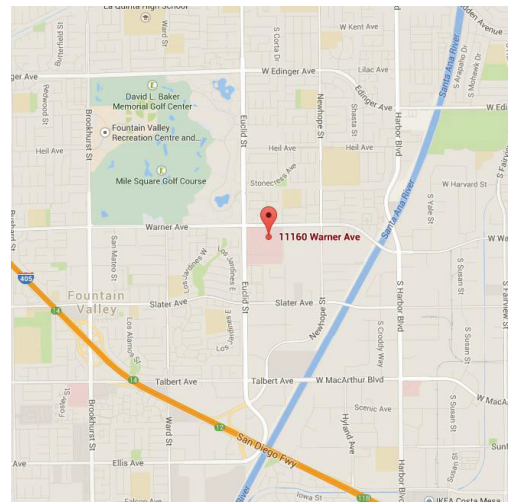
- Increases mortality and morbidity from untreatable diseases.
- Increases risk of global spread of pathogens.
- Results in longer, more frequent hospital stays.
- Limits drug options at a time when pharmaceutical companies are developing fewer new antimicrobials.
- Increases cost of research for new drugs.

Who We Are About Us

Lab Genomics, LLC, was cultivated with the ideal in mind of providing state of the art molecular genetic testing with the end goal of the best quality of life possible for the patient.

Our goal is to provide cutting edge diagnoses giving physicians and patients the best tools and education for health care decisions. Ultimately having physicians and patients proactive in maintaining one's health.

Questions? Contact Us



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Urinary Pathogen Test (UPX) Rapid Molecular Diagnostic Test



This assay detects presence of microbial DNA from pathogens that can cause UTIs

Provides antibiotic treatment recommendations

Covered by Medicare and most insurances



Uropathogen Microbial DNA with Antibiotic Resistance

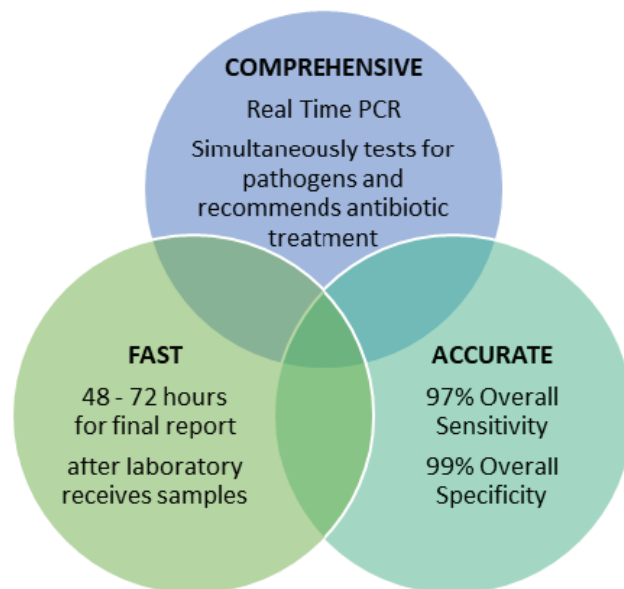
*Physicians receive an easy
to read
“Detected” or “Not Detected”
result for each pathogen*

Urinary Pathogen with Guidance - UPX

1. Molecular Diagnostic Results

Organism	Resistance Marker
A. baumannii	AmpC resistance (ACC)
C. albicans	AmpC resistance (ampC)
C. freundii	AmpC resistance (ACT/MIR)
E. aerogenes	AmpC resistance (DHA)
E. cloacae	Carbapenem resistance (blaOXA-48)
E. coli	Carbapenem resistance (IMP-7)
E. faecalis	Extended-Spectrum-Beta-lactamase (PER-2)
E. faecium	Extended-Spectrum-Beta-lactamase (GES)
K. oxytoca	Extended-Spectrum-Beta-lactamase (CTX-M group 1)
K. pneumoniae	Extended-Spectrum-Beta-lactamase (SHV)
M. morganii	Extended-Spectrum-Beta-lactamase (CTX-M group 9)
P. aeruginosa	Extended-Spectrum-Beta-lactamase (TEM)
P. mirabilis	Extended-Spectrum-Beta-lactamase (CTX-M group 2)
P. stuartii	Inhibition control, exogenous, product number 4308323 (wspC)
P. vulgaris	Macrolide resistance (ErmA)
S. agalactiae	Macrolide resistance (ErmB)
S. saprophyticus	Methicillin resistance (mecA)
	Quinolone and fluoroquinolone resistance (QnrA)
	Quinolone and fluoroquinolone resistance (QnrB)
	Vancomycin resistance (vanC1)

**Comprehensive, Accurate, and
Fast Results**



Urinary Pathogen Test with Antibiotic Resistance (UPX)

Quick Facts

- In United States alone annually, UTI infection results in more than 10 million visits to ambulatory care physicians.
- UTI also accounts for a substantial number of antibiotic prescriptions.

Traditional culture based technology
has limitations:

Subjectivity
Long time to report
High negative value

Benefits of PCR technology offers:

Reduce time to results
Accuracy
Precise

- This further facilitates actionable results with list of antibiotics to resolve the infection, regardless of number of etiologic agents.

Overlapping Signs and Symptoms:

- Experiencing recurrent UTI
- Intestinal cystitis
- Pyelonephritis
- Men with UTI
- Men with Prostate Infection
- Pregnant women
- 55 or older
- Past urinary culture results were contaminated
- On chronic pain care regimens
- Immunosuppressed
- Diabetic

18 Urinary Pathogens

Bacterial Targets

Acinetobacter baumannii
Candida albicans
Citrobacter freundii
Enterobacter aerogenes
Enterobacter cloacae
Enterococcus faecalis
Enterococcus faecium
Escherichia coli
Klebsiella oxytoca
Klebsiella pneumoniae
Morganella morganii
Proteus mirabilis
Proteus vulgaris
Providencia stuartii
Pseudomonas aeruginosa
Staphylococcus saprophyticus
Streptococcus agalactiae
Staphylococcus aureus

18 Urinary Pathogen Detection along
with

19 Antibiotic Resistance Targets are
reported on the UPX test.

Microbial DNA detected and beta
lactamase resistance