



Rapid Molecular Organism Identification and Mixed Flora Antibiotic Resistance Profiling (MixAR) Prospective Study

CLINICALTRIALS.GOV IDENTIFIER
NCT03931538

RECRUITMENT STATUS
ACTIVE, NOT RECRUITING

FIRST POSTED
APRIL 30, 2019

LAST UPDATE POSTED
SEPTEMBER 30, 2019

STUDY DESCRIPTION

Brief Summary

In this protocol, investigators are examining the ability for a novel multiplex PCR assay with mixed floral antibiotic resistance profiling is safe and increases effective treatment for urinary tract infections in a urology clinic over traditional culture methods alone and decreases retreatment rates in this population.

Condition or Disease: Urinary Tract Infections
Prostatitis
Interstitial Cystitis

Intervention/treatment: Diagnostic Test: Guidance 4.0 PCR test
Diagnostic Test: Urine Culture

Phase: N/A

DETAILED DESCRIPTION

The novel multiplex real-time PCR assay with mixed floral antibiotic resistance profiling offers a higher degree of sensitivity and specificity than conventional culture methods in the identification of UTI pathogens as determined by the previous prospective comparison study. Additionally, conventional methods are often inadequate in the case of polymicrobial infections. More accurate and timely pathogen identification allows for prompt and more targeted treatment with less reliance on empiric therapy and decreased rates of antibiotic therapy changes and retreatment. This leads to more favorable patient outcomes and decreases the development of resistant organisms.

STUDY DESIGN

Study Type:	Interventional	Actual Study Start Date:	July 2018
Estimated Enrollment :	2500 participants	Estimated Primary Completion Date:	February 2019
Intervention Model :	Factorial Assignment	Actual Study Completion Date:	October 2019
Masking:	Single (Care Provider)		
Primary Purpose:	Diagnostic		
Official Title:	Urinary Tract Infection: RapID Molecular Organism Identification and Mixed Flora Antibiotic Resistance Profiling (MixAR)		

ARMS AND INTERVENTIONS

Arm	Intervention/treatment
Active Comparator: Culture and Guidance 4.0 PCR test Group Physician receives both results, gets Culture report immediately before Guidance	Diagnostic Test: Guidance 4.0 PCR test All patients will have a urine culture and Guidance 4.0 PCR test run on their urine, but physicians will receive one or the other, or both depending on the treatment arm. Diagnostic Test: Urine Culture All patients will have a urine culture and Guidance 4.0 PCR test run on their urine, but physicians will receive one or the other, or both depending on the treatment arm.
Active Comparator: Guidance 4.0 PCR test and culture group Physician receives both results, gets Guidance report immediately before culture	Diagnostic Test: Guidance 4.0 PCR test All patients will have a urine culture and Guidance 4.0 PCR test run on their urine, but physicians will receive one or the other, or both depending on the treatment arm. Diagnostic Test: Urine Culture All patients will have a urine culture and Guidance 4.0 PCR test run on their urine, but physicians will receive one or the other, or both depending on the treatment arm.
Active Comparator: Guidance 4.0 PCR test only Physician receives Guidance report only	Diagnostic Test: Guidance 4.0 PCR test All patients will have a urine culture and Guidance 4.0 PCR test run on their urine, but physicians will receive one or the other, or both depending on the treatment arm.
Active Comparator: Culture Only Physician receives only culture result	Diagnostic Test: Urine Culture All patients will have a urine culture and Guidance 4.0 PCR test run on their urine, but physicians will receive one or the other, or both depending on the treatment arm.

OUTCOME MEASURES

**Keywords provided
by Pathnostics:**

IC UTI

**Additional relevant
MeSH terms :**

Infection

Urinary Tract Infections

Cystitis

Cystitis, Interstitial

Prostatitis