

## OVERVIEW

DxTreat's urinary tract infection (UTI) tool is a software program that aims to streamline caring for recurring UTI's. It collects the patient symptoms, and if the most likely diagnosis is a simple recurrent UTI, triages for a nurse call and recommends antibiotics. It is built on DxTreat medical protocol modeling technology and follows guidelines developed by University of Michigan Health Systems. The UTI tool is being vetted right now.

### Condition Addressed

UTI for all genders

### Clinical Interventions

- **Treatments**
  - Antibiotics for simple recurrent UTI.
- **Triaging**
  - Nurse call for simple recurrent UTI.
  - Office visit for first time UTI, signs of kidney infection or vaginitis, frequent UTI's, pregnant women, urinary diseases, diabetes, or weakened immune system.

### Medically Accurate & Adaptive Questioning

The tool is intended to be medically accurate, asking only the necessary questions based on patient responses, and recommending the necessary interventions.

### Patient versus Clinician Interfaces

The clinician interface is optimized for clinical decision-making with color-coded patient responses and best-practice recommendations. Patient interface is optimized for education, risk reduction, and clear next steps in receiving care.

### Settings: Home and Clinic

**In clinic use.** The patient completes the interview while in the waiting room on a desktop or mobile device. Patient data and recommendations can be emailed to the clinician and/or integrated into electronic medical records (EMR).

**At home use.** The patient accesses the tool at home via either the clinic's website or the patient portal. The tool informs the patient of appropriate triaging and recommended tests. Patient's data is submitted to the clinic for call-backs.

### EMR Integration

The tool automatically generates EMR notes, in both text and HL7, from patient-entered data. The notes can be integrated into any EMR.

### Patient Privacy

The tool currently does not collect any protected health info (PHI) and can be used in a completely anonymous fashion.

## Customization

DxTreat allows clinics to add additional messages to the outputs, and do some customization of the protocols, for example adding additional screenings in cases of outbreaks.

## Analytics and Reporting

Clinic managers can choose to have regular reports emailed to them showing the usage of the tool.

## Benefits

**Keep patients at home.** Patients who need not be seen in the office are kept at home. Improved access. During off-hours, the tool provides some access to care.

**Streamlined data collection and clinical decision-making.** The care will be standardized, and kept updated with the latest recommendations.

**Reduced burden of documentation.** The software collects the patient history and transcribes it into a standard medical note. This can be edited and physical exam findings added.

## Company

DxTreat is built around facilitating collaboration between highly trained computer scientists and physicians. It is committed to being a responsible player in healthcare, and creating software that lowers cost, improves quality and access, and enhances patient empowerment and engagement.

## Family of Topics

DxTreat is working on a whole family of topics, including those related to STI screening such as PEP, and those needed in a PCP setting such as influenza and sore throat. By establishing a relationship with DxTreat, a clinic can benefit from all these topics.

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