



## OVERVIEW

DxTreat's influenza tool is a software program that collects patient's cold and flu symptoms, and suggests the next steps to diagnose and treat COVID-19, influenza, common cold, strep throat, pneumonia and mono. It recommends appropriate triaging, tests, treatments, and vaccinations. It is built on DxTreat medical protocol modeling technology and follows infectious disease guidelines from various organizations such as Centers for Disease Control and Prevention (CDC) and Infectious Diseases Society of America (IDSA). The influenza tool has been vetted and has been in clinical use since January of 2018, and is ready for deployment.

### Conditions Addressed

Flu, Covid-19, cold, strep throat, pneumonia, and mono

### Clinical Interventions

#### Tests

- COVID-19 test.
- Flu test.
- GAS Strep test.
- Strep culture test.
- Mono test.
- For pneumonia, chest radiography or lung ultra sonography after physical examination.

#### Vaccines

- Flu vaccination.

#### Treatments

- Tamiflu.
- Antibiotics.
- OTC pain relievers, cough suppressants, secretion looseners, congestion relievers.

#### Triaging

- Urgent care.
- Office visit.
- Advice nurse line call.
- Stay home.
- Self isolation.

### 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

**At home use.** The patient accesses the tool at home via the patient portal. The tool informs the patient of appropriate triaging, recommended tests, vaccinations, and treatments, and a clinician gets back to the patient for final decision making.

**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 electronic medical records (EMR).

### EMR Integration

The tool automatically generates EMR notes, in PDF, 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 the busy flu season when it may be hard for patients to be seen, 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. The system is updated in near real time as CDC flu info prevalence is downloaded every 6 hours.

**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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