Innovative CareView app provides patient data on 7 conditions related to 40% of ED visits

January 13 2020

Credit: CC0 Public Domain

Doctors at Indiana University Health hospitals now have faster, easier access to information about the patients they are treating in the

emergency department. The CareView app, created in a partnership among Regenstrief Institute, Indiana Health Information Exchange (IHIE), IU Health and Indiana University School of Medicine, provides clinicians with only the most relevant information from a patient's medical history related to the complaint that brought them to the hospital.

"There is an incredible amount of information available for most patients, but sifting through all of it to find the most crucial data can be very time consuming," said Titus Schleyer, DMD, Ph.D., a Regenstrief research scientist and professor of biomedical informatics at IU School of Medicine. "Clinicians could spend three to five minutes searching for data in a patient's records. CareView cuts that time to less than 10 seconds, freeing up more time to interact with the patient."

The app covers several conditions: chest pain, abdominal pain, headache, weakness and dizziness, back pain, pregnancy, heartbeat irregularities, and trouble breathing. These conditions account for about 40 percent of all visits to the emergency department at IU Health.

CareView has been in use in the emergency department at IU Health Methodist for about two years. Over the course of the development, the team has improved functionality and added features, including support for multiple conditions.

Its use has now expanded to include emergency departments at IU Health West, IU Health North and IU Health Saxony. The app will be rolled out to the remaining emergency departments in the IU Health system over the next nine months.

How CareView Works

The CareView app is integrated into the electronic health record (EHR)

system. When the clinician selects a condition, such as chest pain, the app connects to the Indiana Network for Patient Care, the clinical data repository managed by the Indiana Health Information Exchange, and retrieves the patient's test results, notes and other information most relevant to the complaint. CareView is a FHIR (Fast Healthcare Interoperability Resources) app, which is an application programming interface (API) allowing EHR systems to communicate with third-party applications using a common language.

"Before this app, providers had to leave the EHR and access the Indiana Network for Patient Care through a separate tool," said John Kansky, president and chief executive officer of IHIE. "This eliminates the extra step. In addition, instead of sorting through every single health record, this app anticipates what the doctors are looking for and brings up only the most relevant information."

Researchers hope it will improve patients' outcomes as well as reduce costs, time and inconvenience by eliminating unnecessary tests and preventing readmissions to the hospital.

"The goal of this app is to allow providers to spend more time with patients, rather than searching through medical records, while also providing them the pertinent information they need to provide the best care possible," said Jason T. Schaffer, M.D., emergency physician and associate medical information officer at IU Health and associate professor of clinical emergency medicine at IU School of Medicine. "What's just as important is providing information on what is not available. With the CareView app, doctors don't waste time searching for test results that may not exist."

"Our goal with this project is to develop a framework that can be generalized to other use cases," said Dr. Schaffer. "We hope to build upon this app and possibly make it available in other contexts to improve

care."

Provided by Regenstrief Institute

Citation: Innovative CareView app provides patient data on 7 conditions related to 40% of ED visits (2020, January 13) retrieved 25 April 2024 from https://medicalxpress.com/news/2020-01-careview-app-patient-conditions-ed.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.