AnalyzeMed

A Pharmacogenomics Information System

Jeff Stocker
2 November 2020

CAROLINA HEALTH INFORMATICS PROGRAM

Improving Healthcare with Intelligence

Overview

- Background
- System Design
- Use Cases
- UI/UX Requirements
- Demonstration
- Future Steps

Background

Defining Pharmacogenomics

- Medications interacting with genetics
- What influences drug response?

Underserved populations

- Different predispositions to disease or adverse reactions
- A need for more personalized treatments

System Design

Cohort: African-Americans

Use Cases

IMPROVING PATIENT-PROVIDER COMMUNICATION

UI/UX Requirements

Search Functions

Filtering search results

ICD-10 search assistance

Medication lists

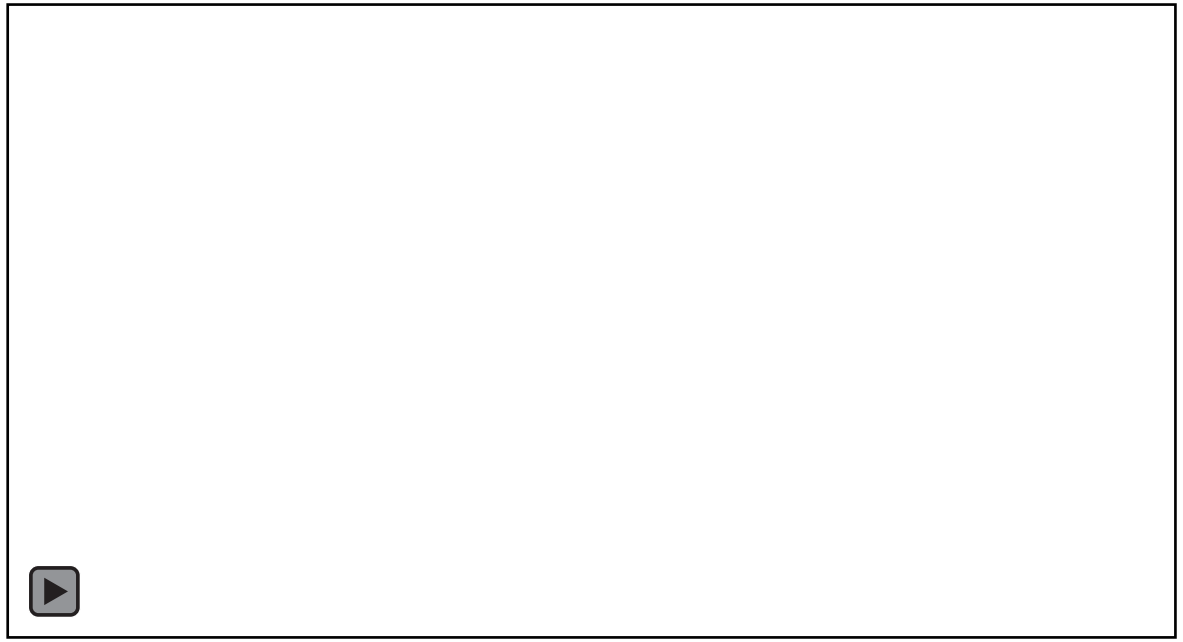
Data Presentation

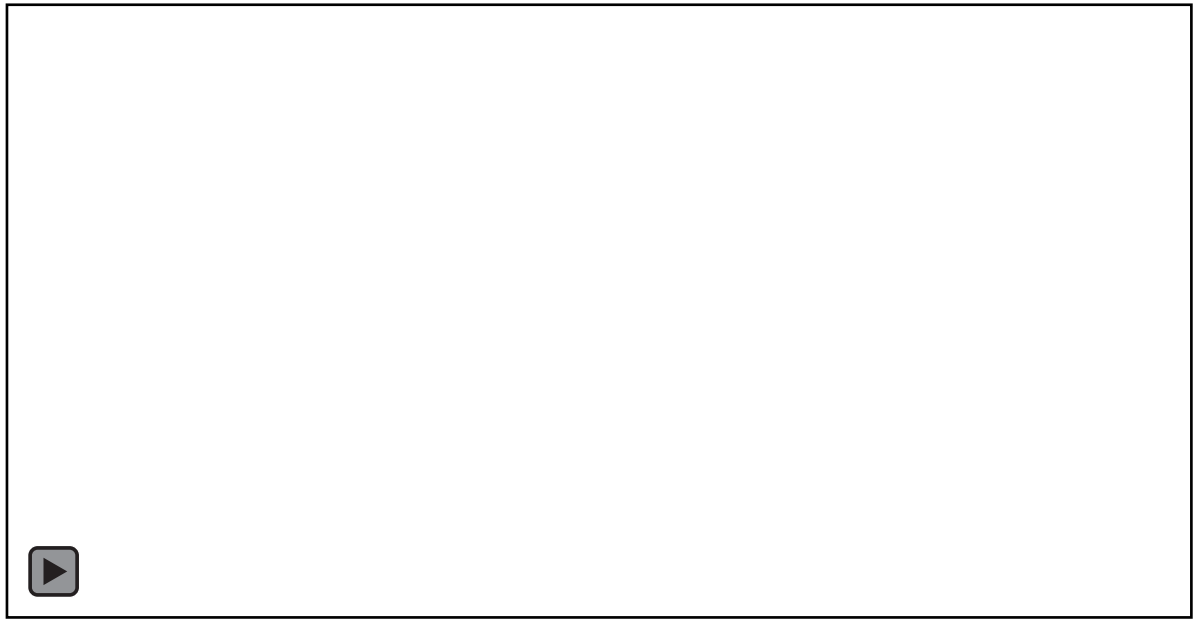
Improved results lists

Chart generation

Downloadable data

Demos





Future Steps

EHR INTEGRATION

PERSONALIZED TREATMENT

DATA RETRIEVAL AUTOMATION

IMPROVE END-USER FUNCTIONS

Lessons Learned

Questions?