

Supporting Proactive Diabetes Screenings to Improve Health Outcomes

AllianceChicago



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*A non-profit national network of more than 40 community health centers **servicing the least resourced members of their communities***

- 23 years old
- Obese (BMI 30)
- Family history of Diabetes
- Hypertension





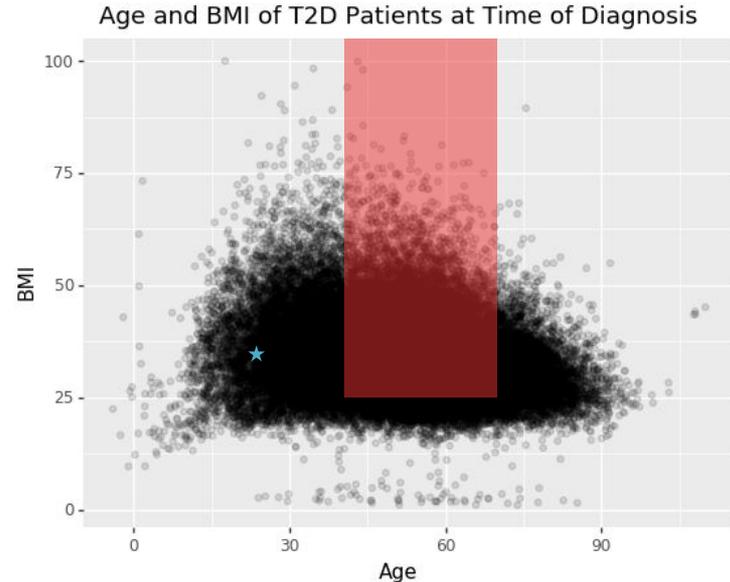
- 40-70 years old
- BMI \geq 25



How well do the screening guidelines do?



- ✓ 40-70 years old
- ✓ BMI ≥ 25



Our Goal:



- ✓ 40-70 years old
- ✓ BMI ≥ 25

A screenshot of a web application titled "Electronic Health Records 2.0". The interface has two tabs: "Heart Disease Risk Tool" and "Diabetes Risk Tool". The main content area displays patient information for "John Smith", including a profile icon, age, height, weight, and smoking status. A large red "70%" is displayed next to the text "high risk of developing diabetes". Below this is a "Compute Risk Score" button and a callout box with the advice "Stop smoking and lose weight". At the bottom, there are three sections: "Medications History" (listing Olanzapine, Risperidone, Topiramate, and Prasugrel HCL), "Diagnoses History" (listing Dyslipidemia, Obesity, Hypertension, and Tobacco use), and "Observations" (containing a paragraph of Lorem Ipsum text).

Data

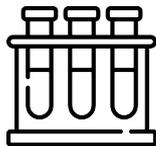
De-identified EHR



Demographics



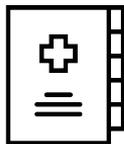
Visits



Lab results



Medications



Diagnoses

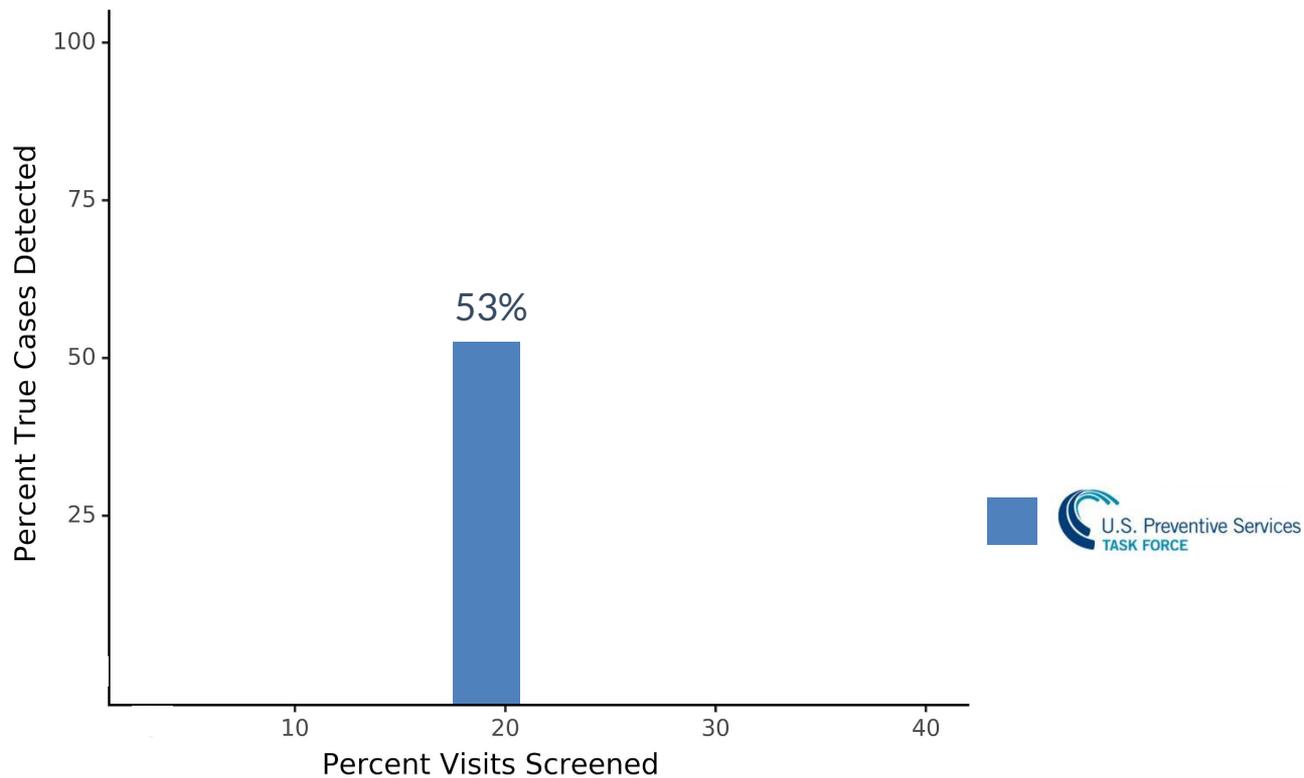
- 1.1 million patients
- 24 health centers
- ~ 8 million visits

External

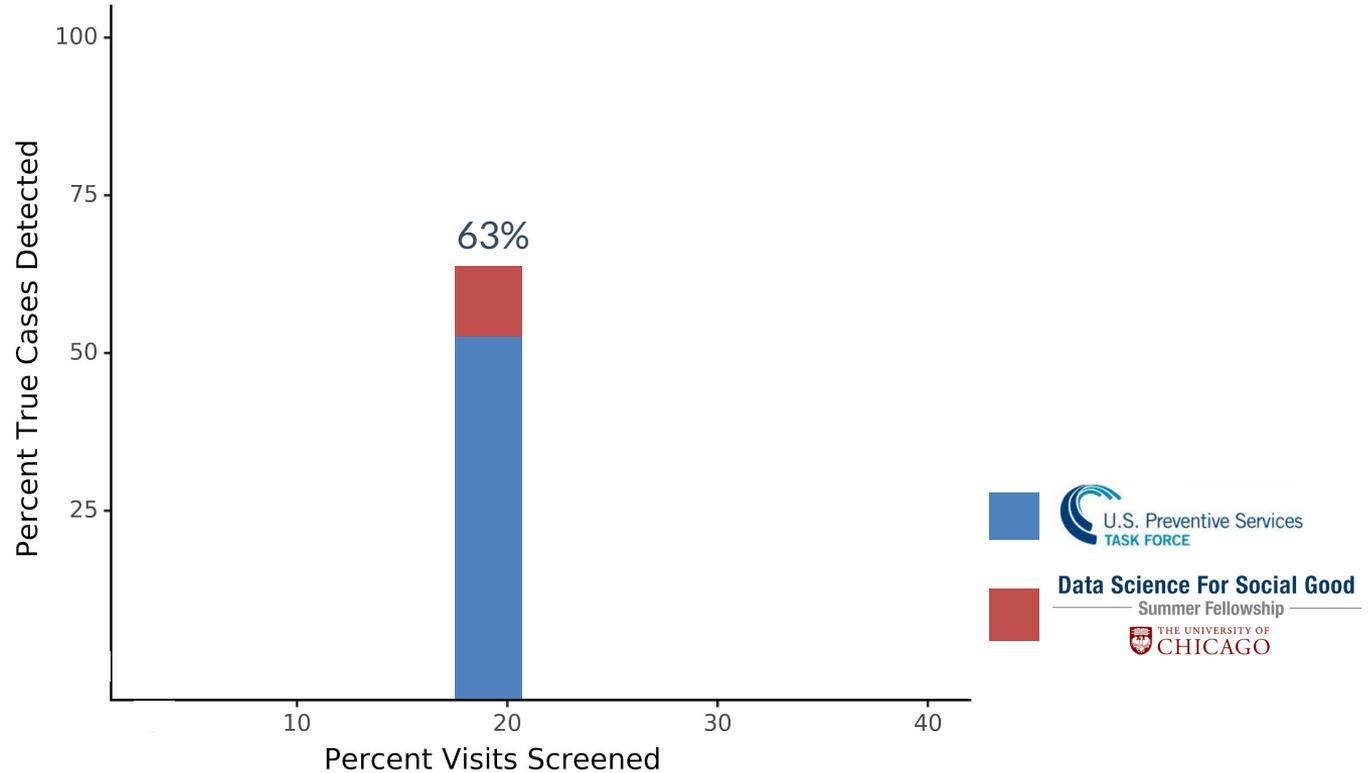


American Community
Survey (ACS)

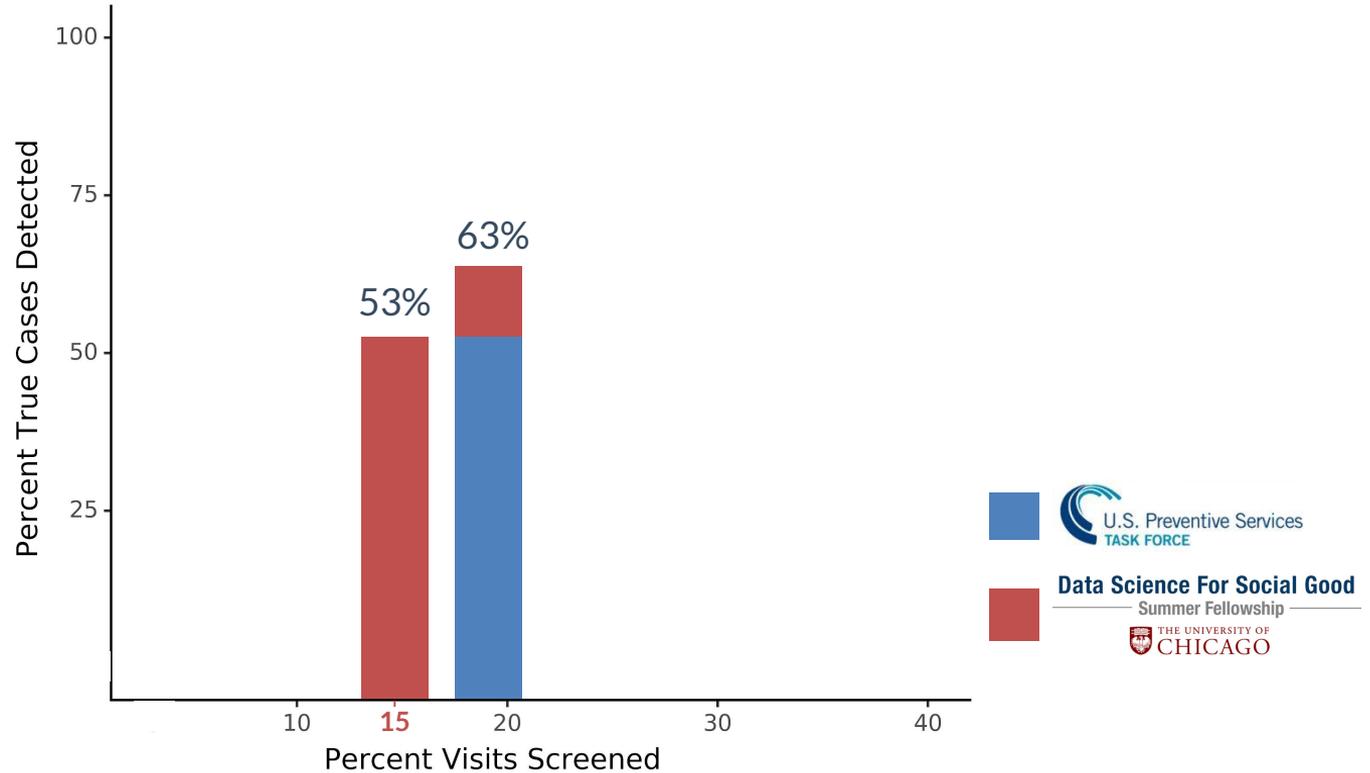
How well do the guidelines do?



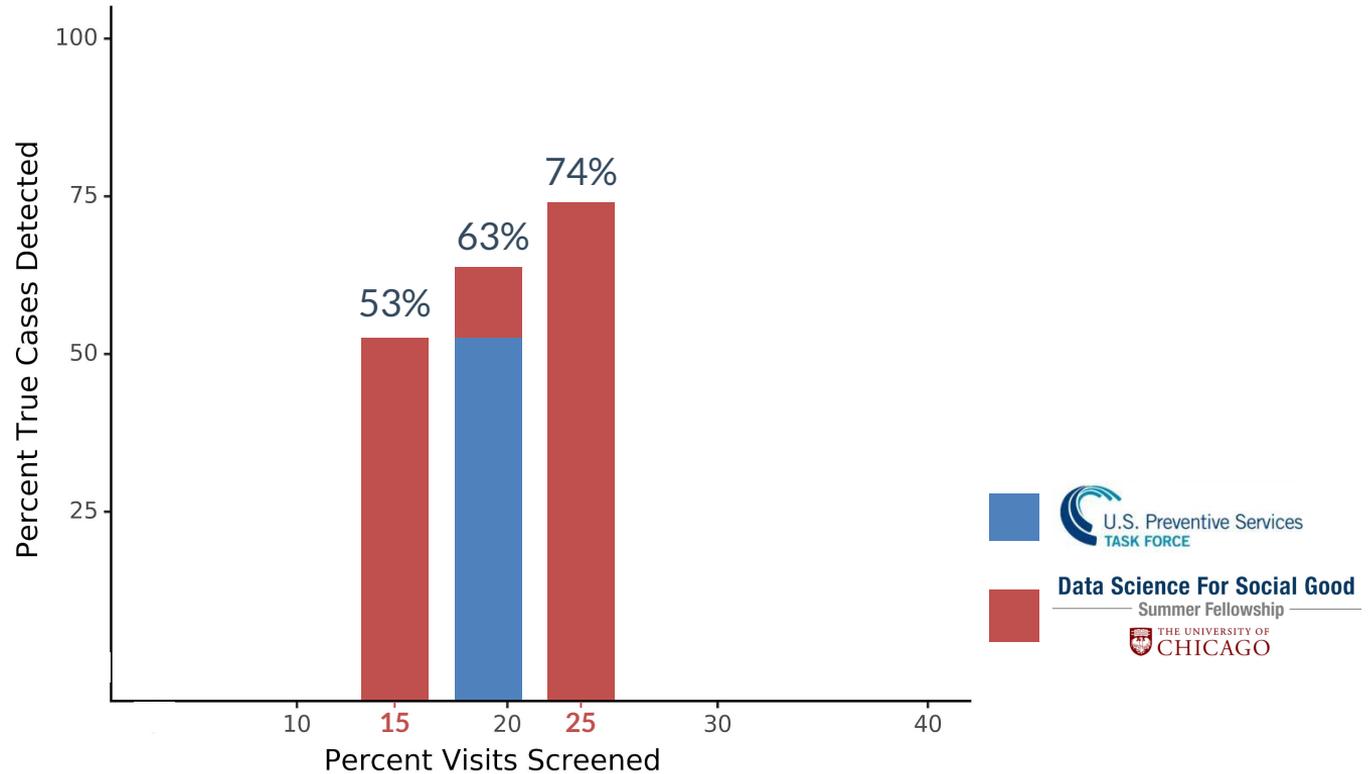
How well does our model do?



How well does our model do?



How well does our model do?



Predict risk of
Type II Diabetes

Personalize
Screening
Decisions

Connect to
interventions
and services

Prevent
diabetes and
improve health

Electronic Health Records 2.0
Heart Disease Risk Tool | Diabetes Risk Tool

John Smith

Age:
Height:
Weight:
Smoker: Yes No

70%
High risk of developing diabetes
[Compute Risk Score](#)
[Advice: Stop smoking and lose weight!](#)

Medications History	Diagnoses History	Observations
Chlorzoxiprone Rosuvastatin Tasimelteon Pantoprazole HCL	Dyslipidemia Diabetes Hypertension Tobacco use	It is a long established fact that a reader will be intrigued by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using

