



Federal Health Architecture



An Open Source
Population Health
Reporting Prototype





Background

- **ARRA and HITECH : Demanding New Play for Healthcare**
 - Having an Electronic Health Record (EHR) system will no longer be sufficient for providers
 - Proof is needed to show and measure how much providers are making a difference in patients' outcomes
 - *Goal is to electronically capture in coded format and to report health information and to use that information to track key clinical conditions in order to demonstrate “meaningful use” of Health IT*



Objectives

- **Develop a Population Health Reporting Service That Will:**
 - Incorporate current definitions of population health quality measures
 - Empower providers to better understand the health of their patient population
 - Demonstrate how the HITSP C32 interoperability standard can be used to send information from health care providers to government agencies
- **The popHealth Project Aims To:**
 - Provide open access to the software, discussions on features, feedback on use, and long-term strategy
 - Position population health quality measures so that they motivate standards adoption
 - Guide the evolution of population health reporting standards, by live pilots and deployments

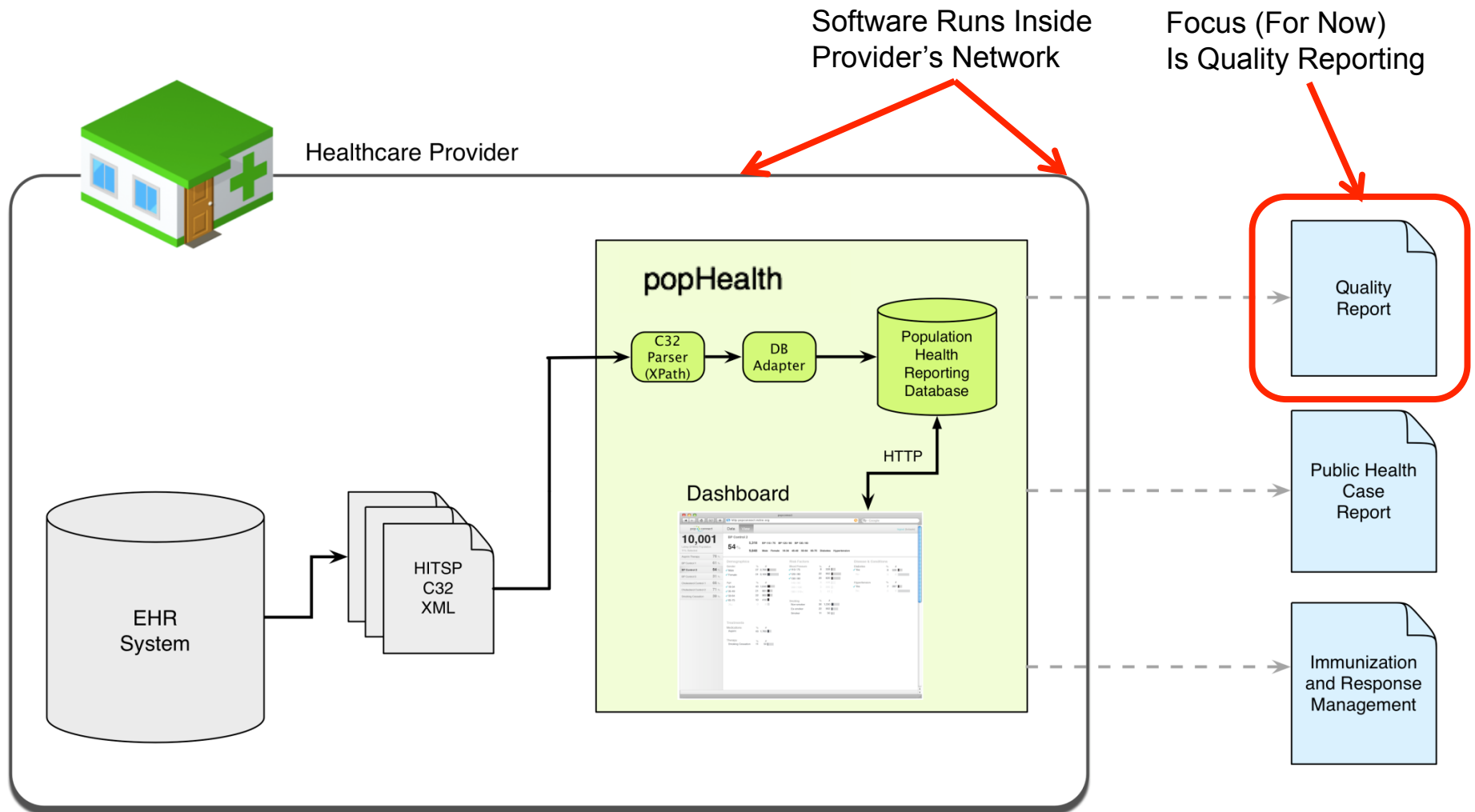


Key Design Features

- **PopHealth is designed to operate within a provider's infrastructure**
 - Addresses privacy and security concerns associated with information associated with individual patient records
 - Software has direct access to the summary continuity of data associated with individual patient records
- **PopHealth is a web-based service, that currently relies on the HITSP C32 data standard to extract report data from patients' continuity of care records**
 - Software has been designed to be flexible and permissive, so that it can support various data standards both for input and output
- **Future data standards planned for integration with popHealth include**
 - ASTM CCR
 - HL7 QRDA
 - HL7 eMeasure



Workflow





Screen Shots and Work Flow



Web-Based

Meant To Be
Instantiated
Behind
Provider's
Firewall

Addressing
Security &
Privacy Around
Data

Welcome to popHealth

http://127.0.0.1:3000/account/login

Most Visited - Slashdot - CNN.com - Facebook

Welcome to popHealth

pop health

Email Address
rmccready@mitre.org

Password
.....

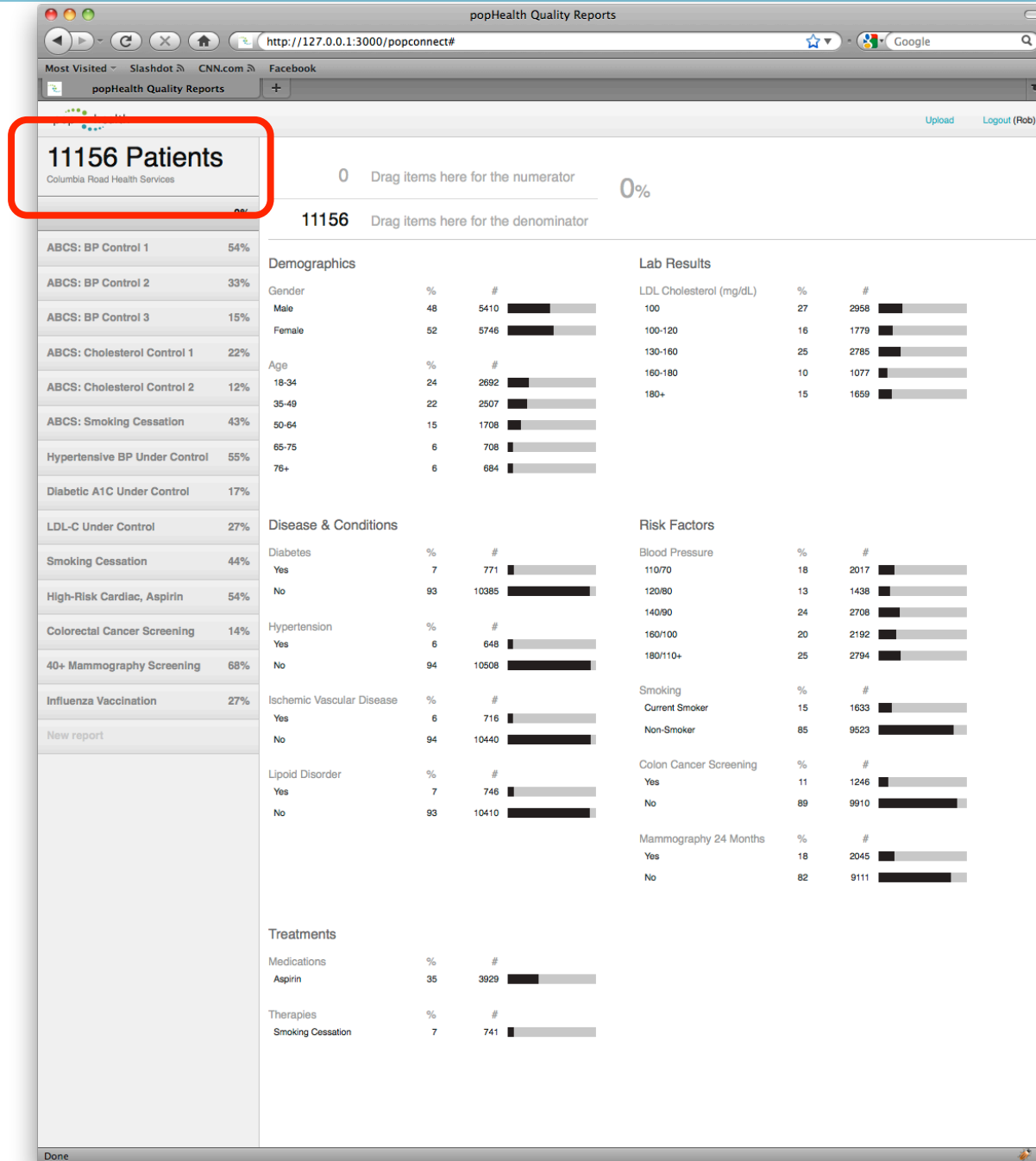
CANCEL LOGIN

[Create New Account](#)
[Forgot Your Password?](#)

popHealth v0.2
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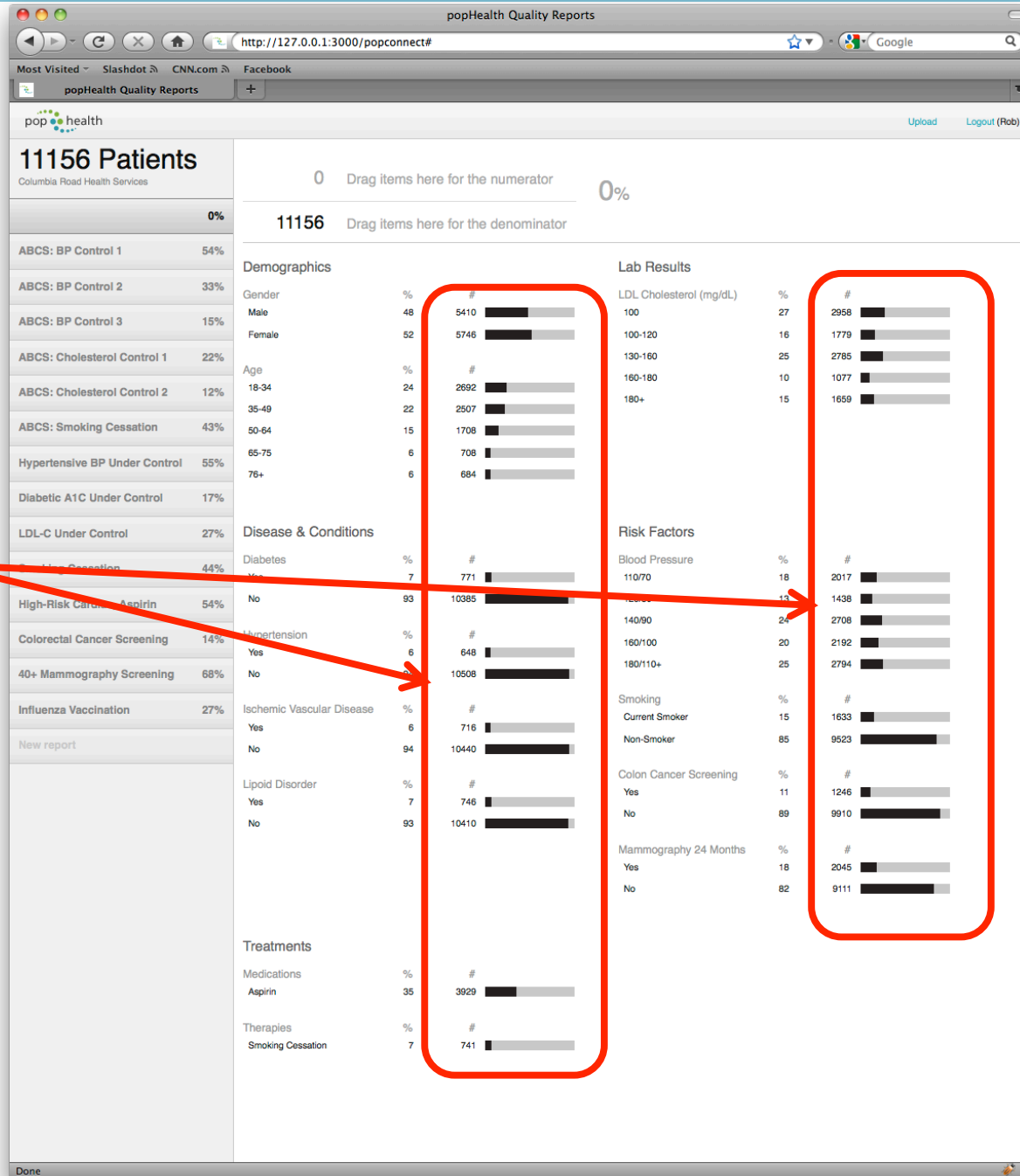


This Provider
Has 11156
Patients



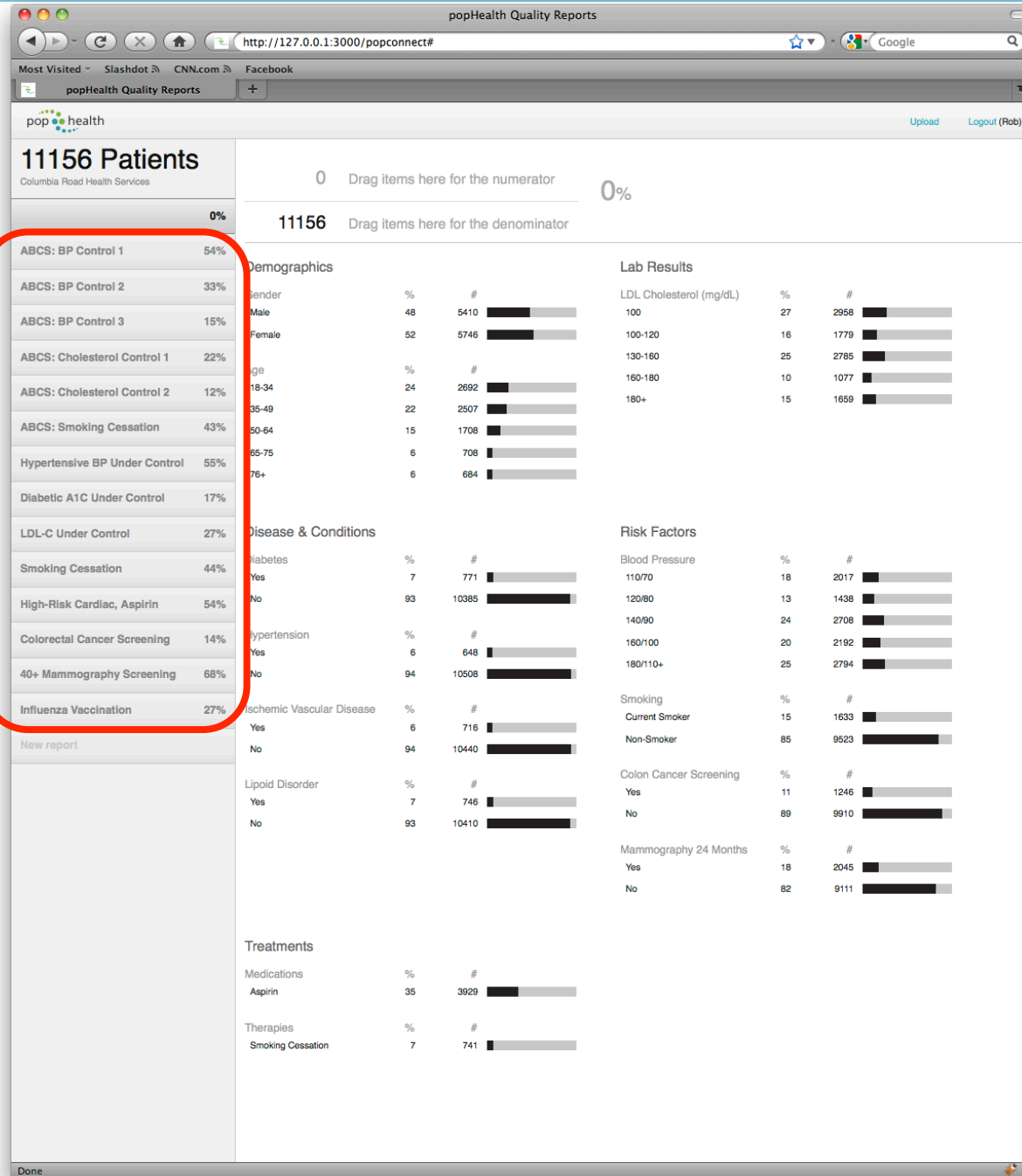


High Level
Summary
Data About
Population
Immediately
Available



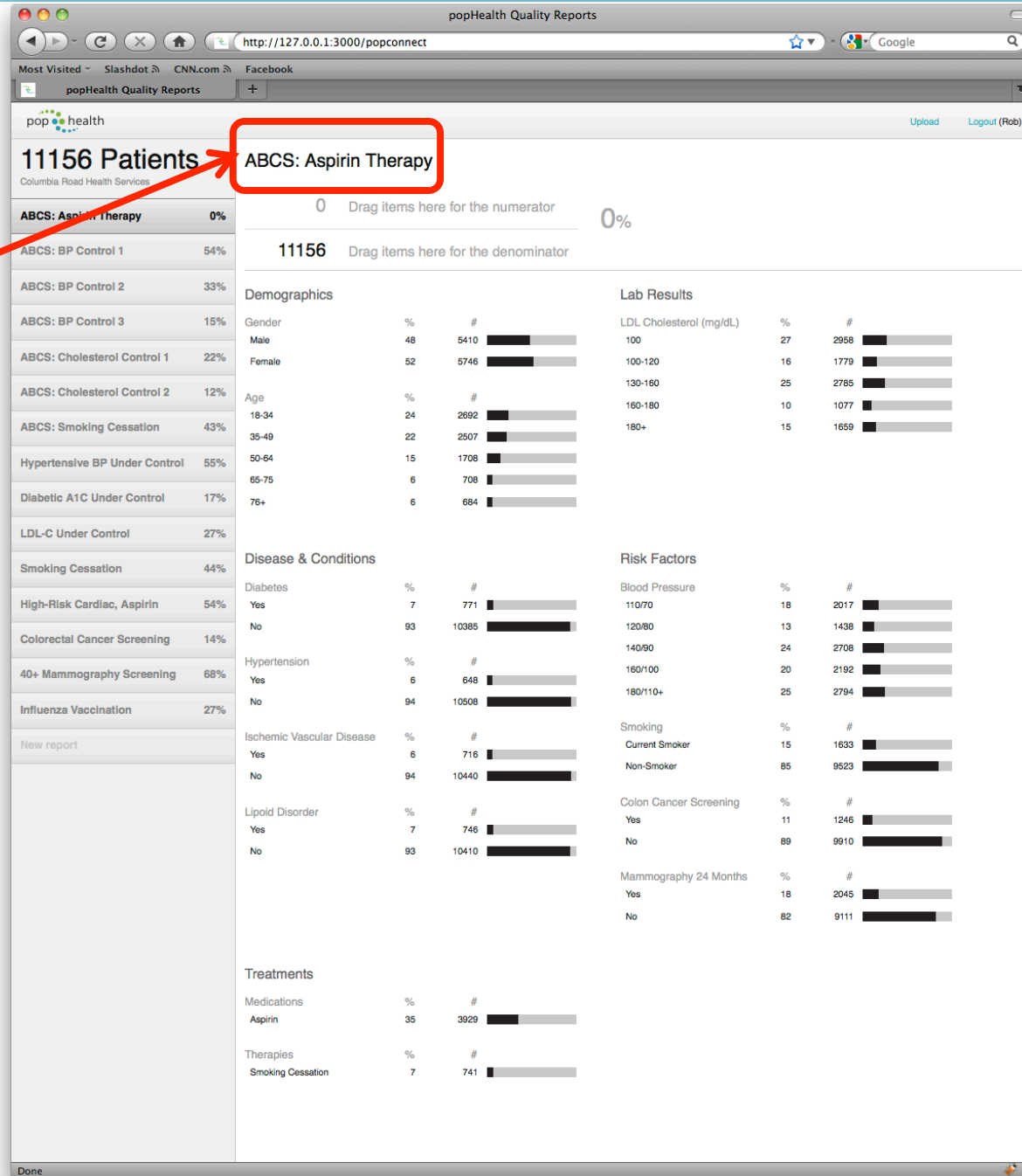


Provides
Preset
Quality
Reports



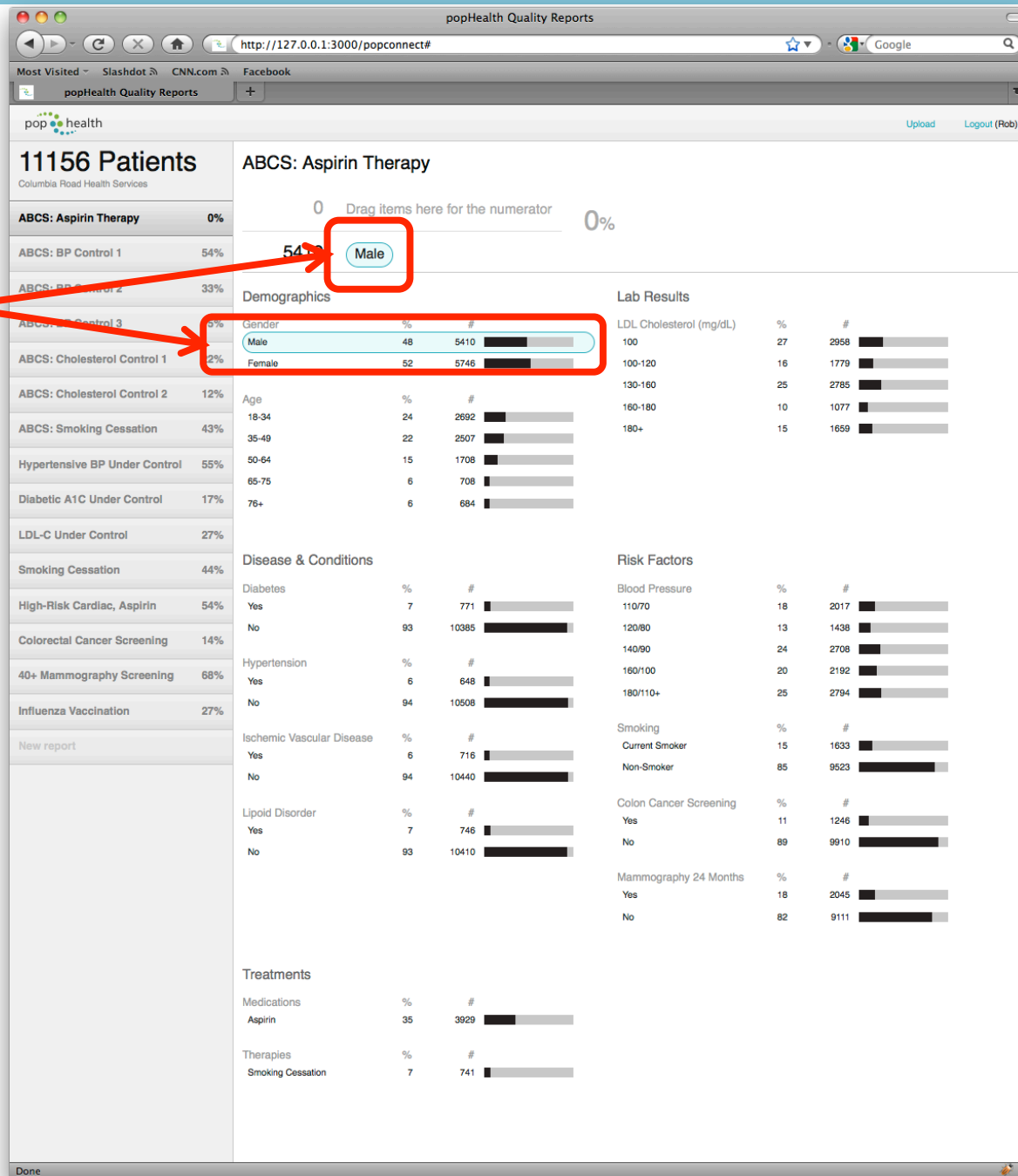


Make and
Name
New Report



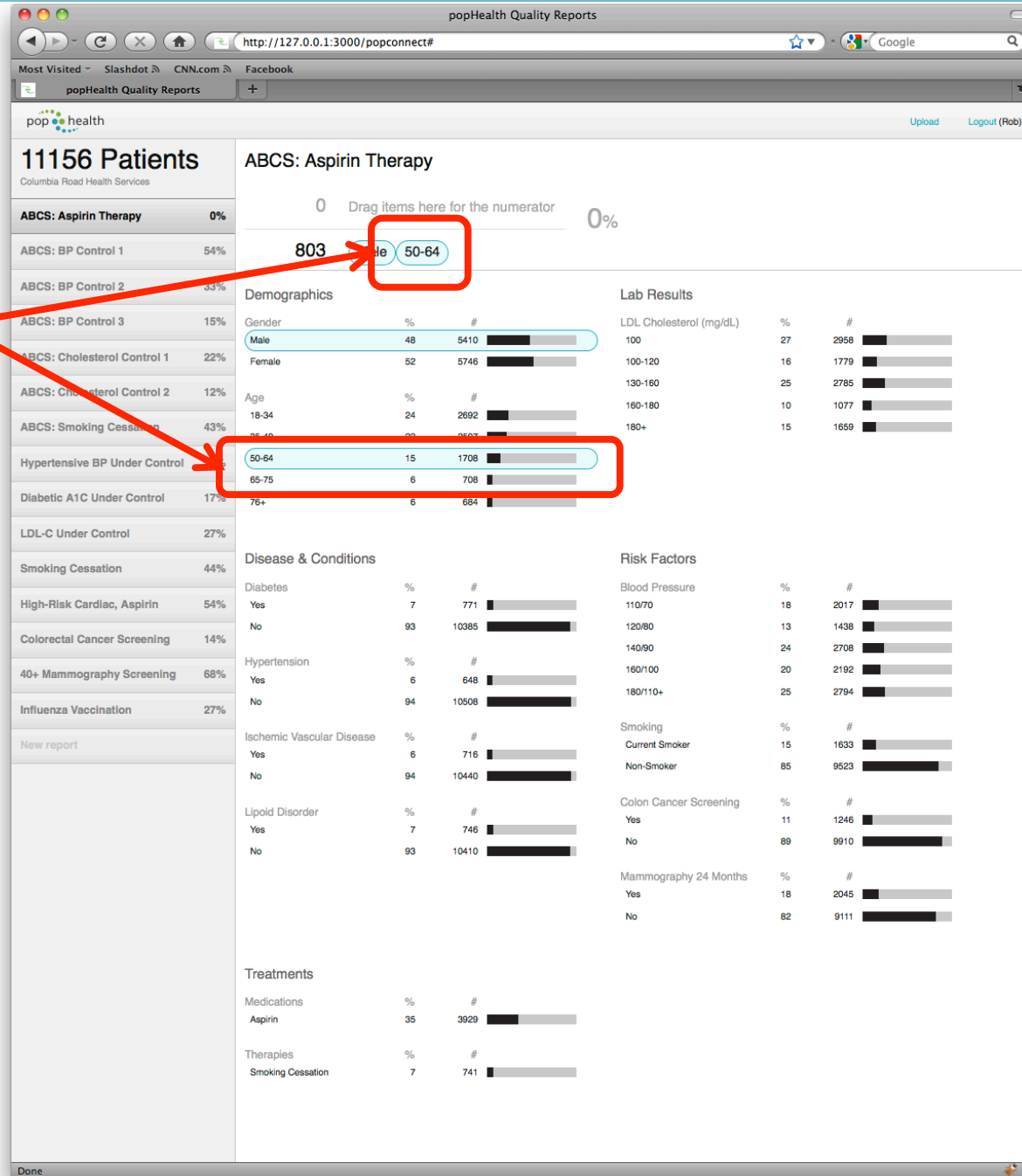


Drag Fields
Up To Identify
Population
For Inspection



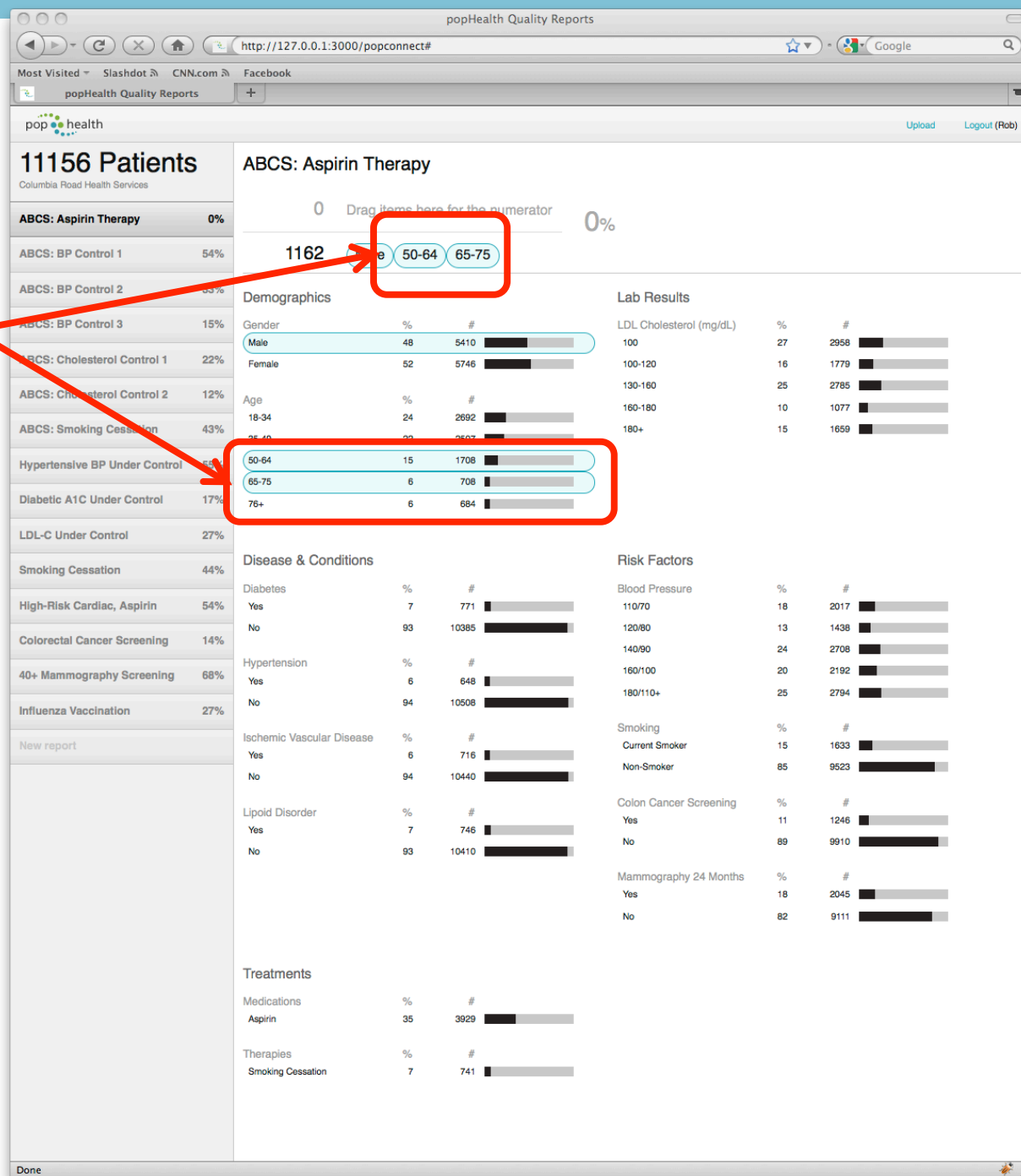


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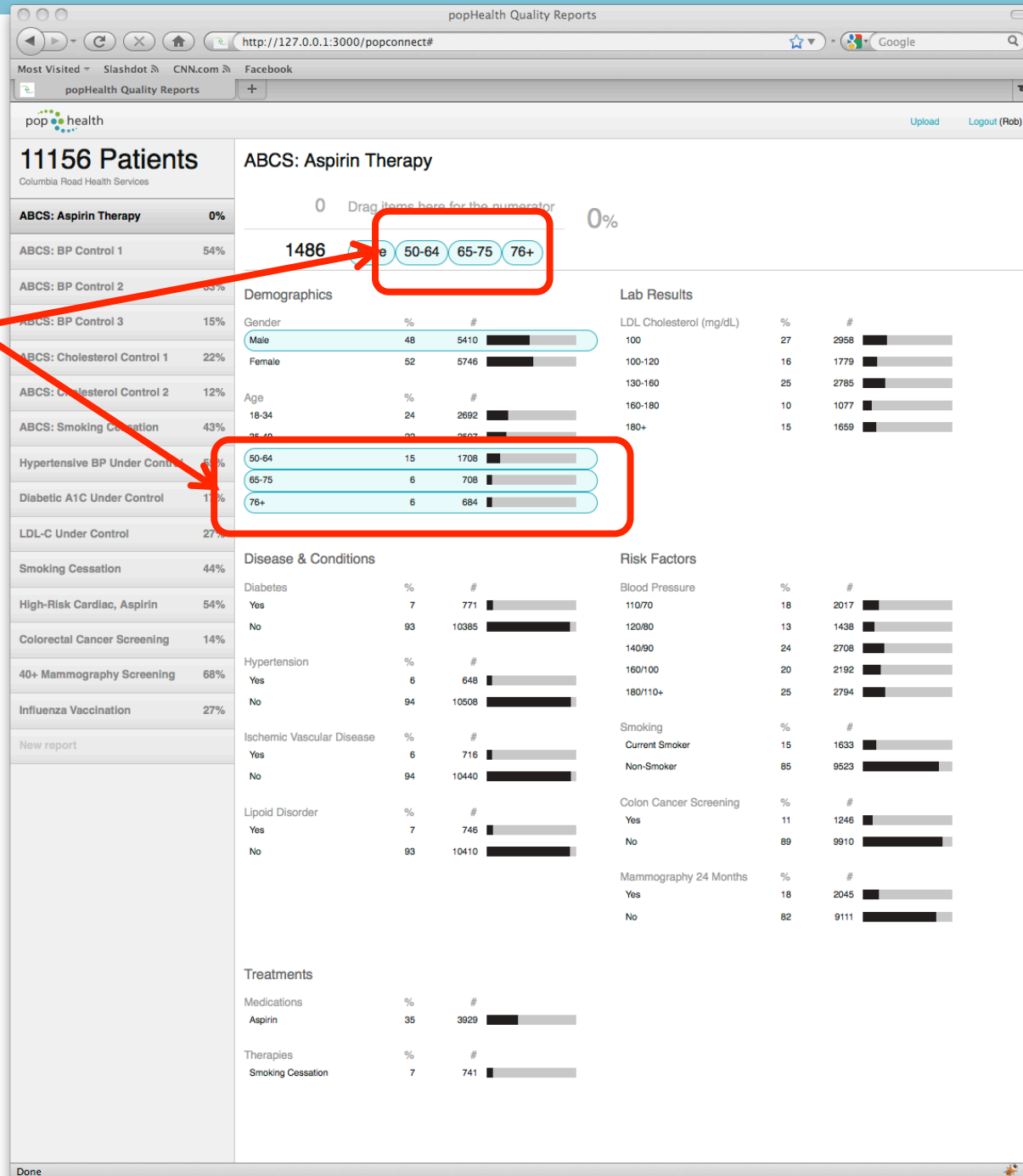


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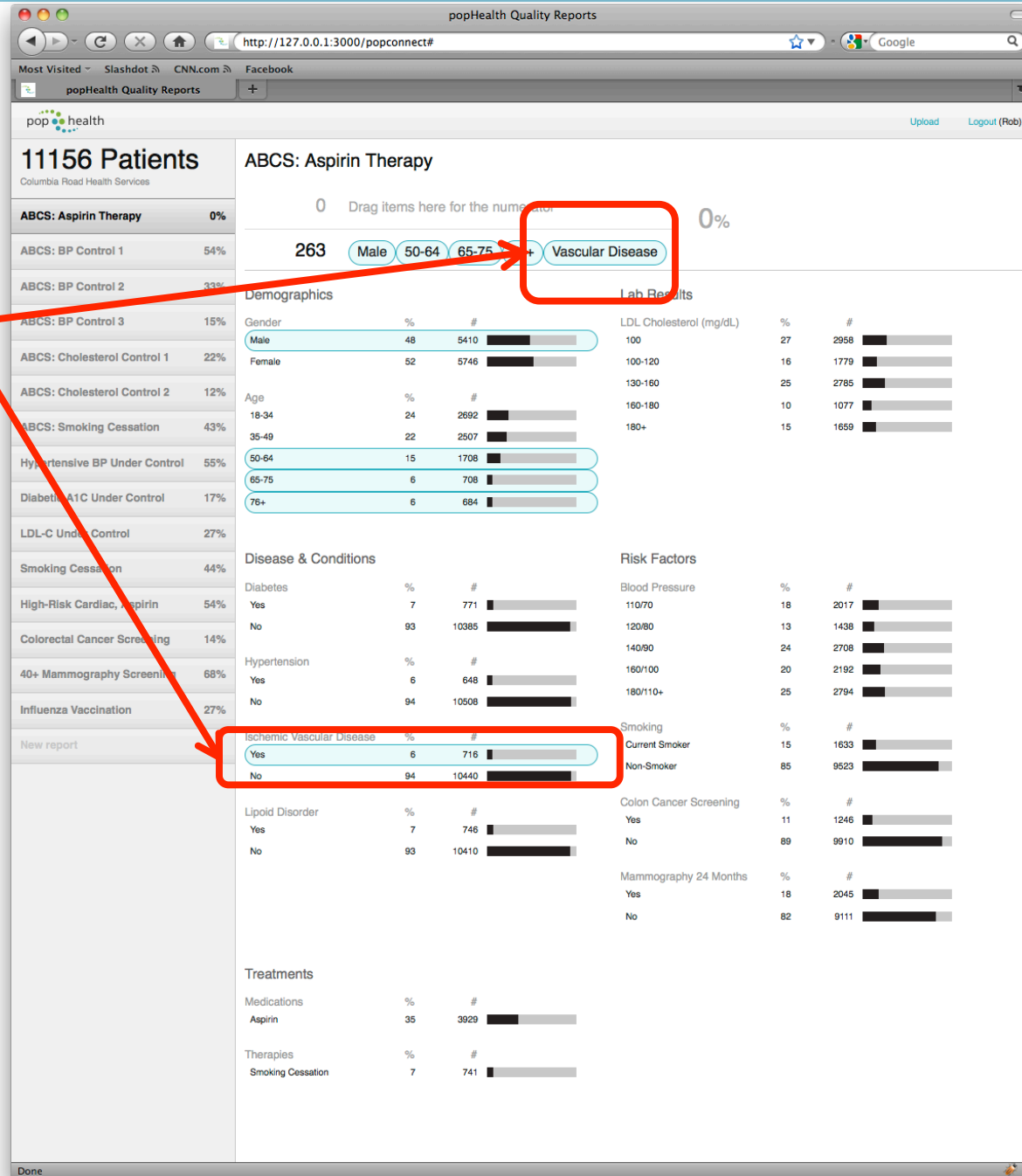


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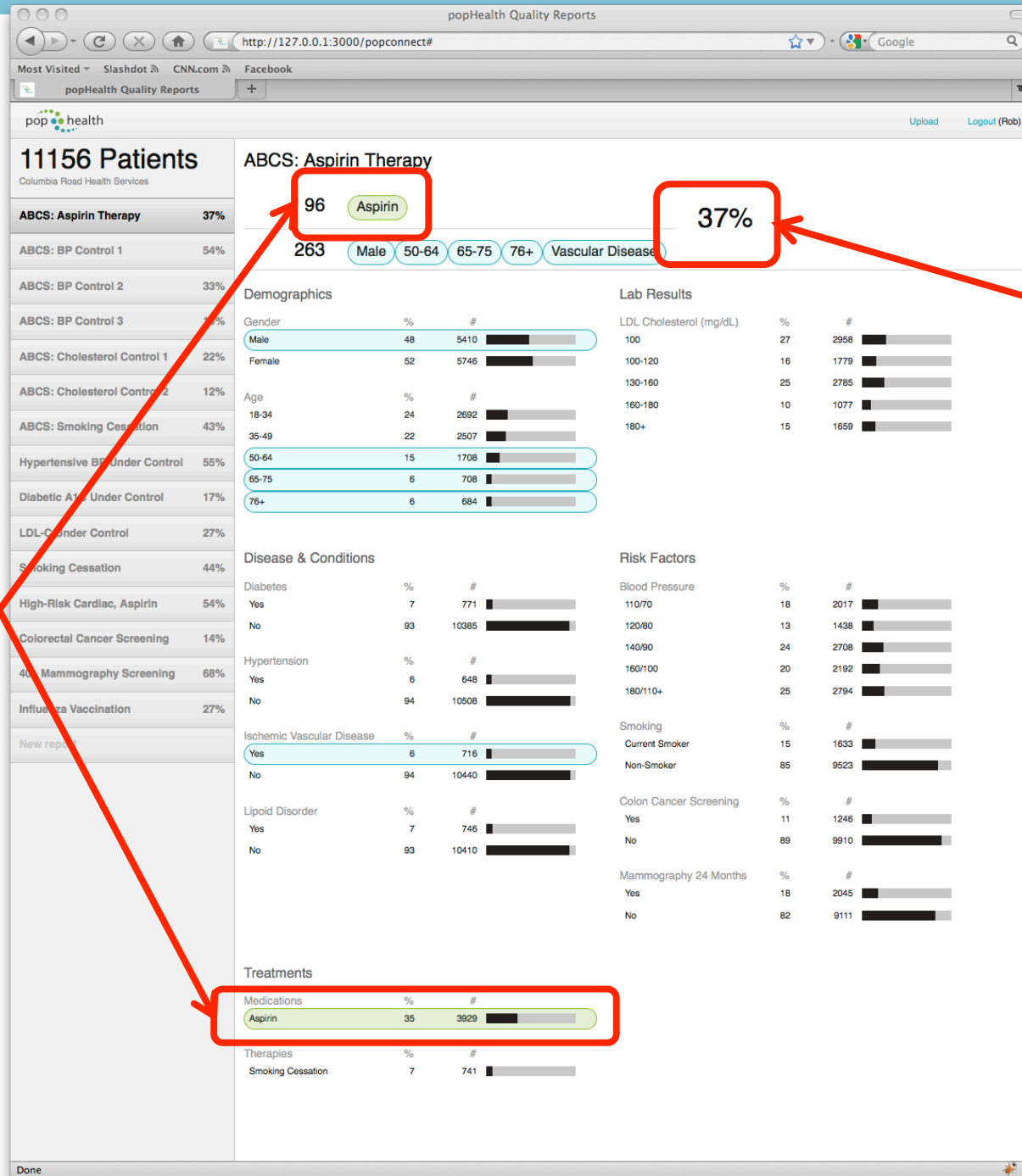


Drag Fields
Up To Identify
Population
For Inspection





Drag Fields
Up To
Compose
Query



... and
View the
Quality
Measure



The Patient is Waiting...



Thank you

Contact info: fha@hhs.gov or 202-205-8614