

It's All About Data: the What, the Why and the How

**ConnectingOntario
Provincial Electronic Health
Record**

**OntarioMD EMR Quality
Dashboard**

Dr. Therese Hodgson and Dr. Lee Donohue
OntarioMD Physician Peer Leaders

Faculty/Presenter Disclosures

- **Faculty: Dr. Therese Hodgson**
- **Relationship with Commercial Interests:**
 - OntarioMD – Peer Leader
 - Champlain Service Delivery Partner Physician Lead ConnectingOntario-NER (July 2015-May 2018)
 - Speaker at STEP Conference (OCFP) June 2018
 - Facilitator OCFP Osteoporosis Workshop 2018-2019
- **Disclosure of Commercial Support: None**
- **Mitigation of Potential Bias:**
 - Content of this presentation has been reviewed by a panel of physician and nurse peers to ensure that it remains unbiased and has no commercial representation

Faculty/Presenter Disclosures

- **Faculty: Dr. Lee Donohue**
- **Relationship with Commercial Interests: OntarioMD Peer Leader**
- **Disclosure of Commercial Support: None**
- **Mitigation of Potential Bias: Not applicable**

Connecting Ontario

Provincial Electronic Health Record (EHR)

Question

Are you aware of the
provincial EHR ?

CO-Clinical Viewer

or

ClinicalConnect

Question

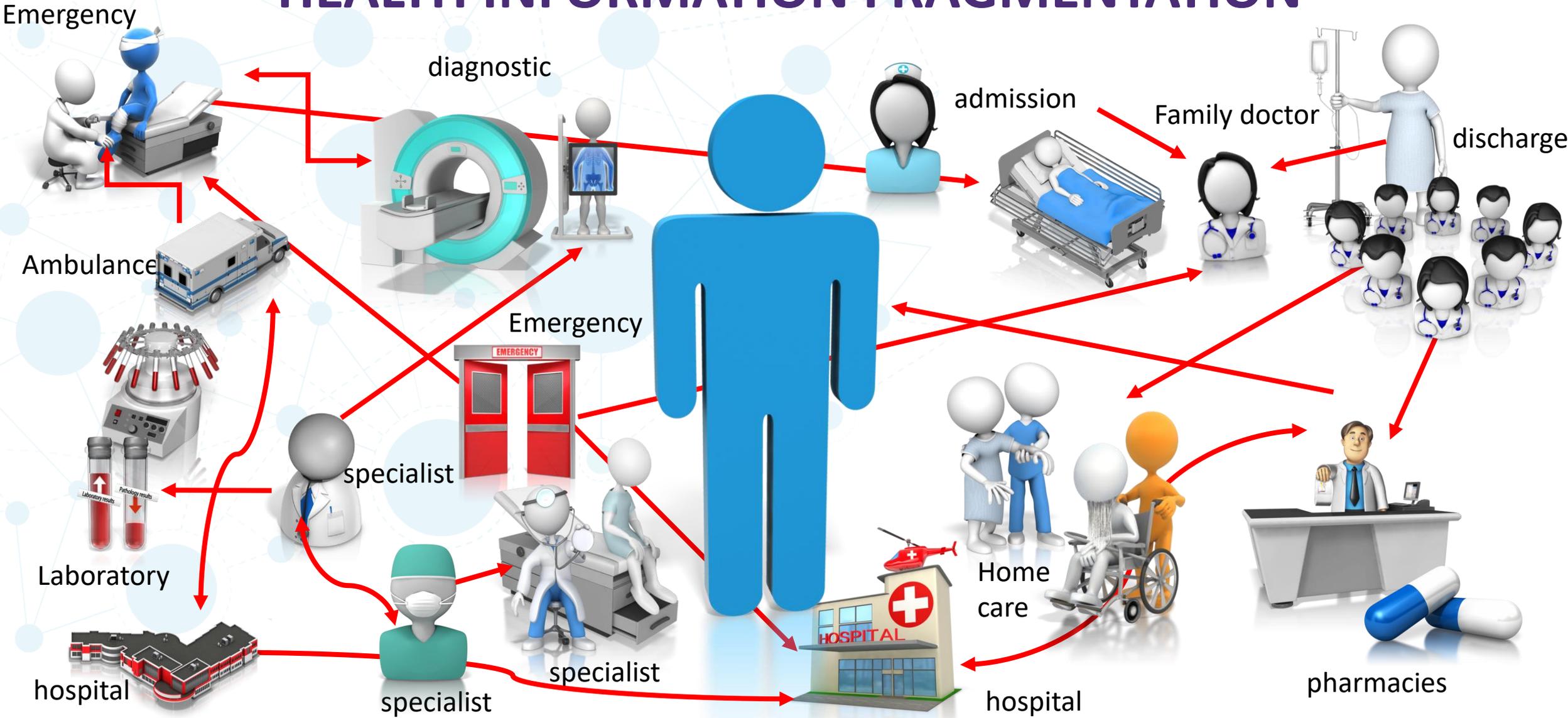
Are you a user of the
provincial EHR?

Question

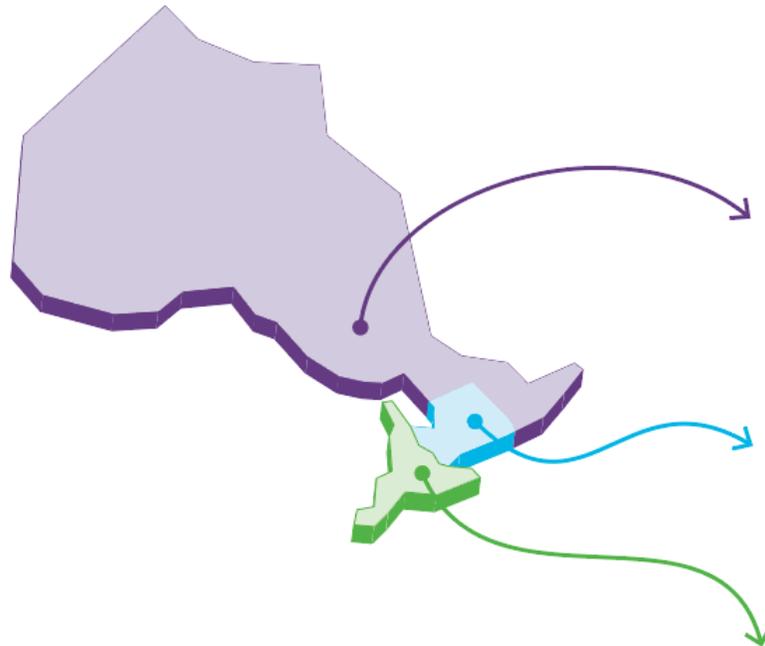
Are you knowledgeable of
what data is available in
the EHR?



HEALTH INFORMATION FRAGMENTATION



ConnectingOntario A Provincial Solution



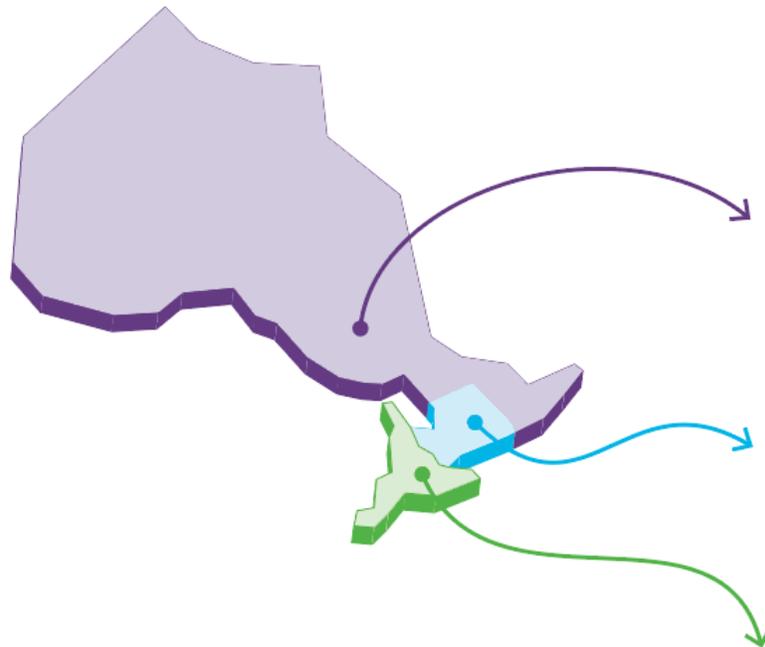
ConnectingOntario

ConnectingOntario
Northern and Eastern Region

ConnectingOntario
Greater Toronto Area

Connecting South West Ontario

ConnectingOntario A Provincial Solution



ConnectingOntario

ConnectingOntario ClinicalViewer

ClinicalConnect

Connecting Ontario Clinical Viewer

What information is available?



Ontario Laboratories Information System

- ✓ **Laboratory Results**
 - ✓ 91% of the annual provincial laboratory test volumes
 - ✓ 96% of provincial community laboratory test volumes
 - ✓ All Public Health Ontario laboratories
 - ✓ Most hospitals' laboratories (and growing)



Digital Health Drug Repository

- ✓ **Ontario Drug Benefit funded medications**
- ✓ **Monitored Drugs (narcotics and controlled substances)**
- ✓ **Pharmacy Services**



LHIN-Home and Community Care

- ✓ **LHIN-Home and Community Care Reports**
 - ✓ Assessments
 - ✓ Care plan, service details
 - ✓ Medical equipment information



Hospitals

- ✓ **Hospital Documents**
 - ✓ Discharge Summaries
 - ✓ Emergency Department Reports
 - ✓ Consult Reports
 - ✓ Diagnostic Imaging (DI) Reports
 - ✓ Specialty Diagnostic Laboratory Reports
 - ✓ Visits and Encounter Details
 - ✓ Consent Directive and Override Rules



Diagnostic Imaging-Common Services

- ✓ **DI from Hospital and Community**
 - ✓ Reports
 - ✓ Images

✓ **PLUS** Digital Health Immunization Repository (DHIR) on roadmap

ConnectingOntario ClinicalViewer

ConnectingOntario
ClinicalViewer The ConnectingOntario Portal may not contain all clinical information for an individual. Click the Data Summary link for details.

My Workspace Patient Care

COTE-NORD, YULIA DOB: 01 Jan 1962 (55y) Female HCN: 3425414801
Contact & Address: 161 Clar...

Timeline
Time Interval: 7D 30D 3M 6M 1Y Custom Displaying 04 Oct 2017 to 01 Sep 2015 View Refreshed: 02:27 PM

Medications
Dispensed Medications
Warning: Limited to drug information and pharmacy services available in DHDR.
Dispensed Date Generic Name Brand Name Strength Form
27 Mar 2016 ACETYL SALICYLIC ACID Aspirin 325mg DRAL/E
27 Feb 2016 FLUOXETINE Prozac 10mg DRAL/T
10 Feb 2016 Sulfamethoxazole Trimethoprim Tava Sulfamethoxazole Trim. 400mg & 80mg DRAL/T
27 Dec 2015 MedsCheck LT
20 Dec 2015 ROSUVASTATIN CALCIUM Rosuvastatin 20mg DRAL/T
20 Dec 2015 HYDROCHLOROTHIAZIDE 25mg DRAL/T
09 Dec 2015 PERINDOPRILAT 2mg DRAL/T

Documents/Notes
Document Date/Time Description
09 Aug 2016 12:10 Neurology Consult
27 Jun 2016 11:00 CCAC - Care Coordinator Assessment
26 Jun 2016 14:15 Discharge Summary
28 May 2016 13:59 Admission Assessment
28 May 2016 11:01 Discharge Summary
18 Apr 2016 14:27 Psychiatry Consult
17 Apr 2016 11:04 Cardiology Consult
16 Apr 2016 11:27 Admission Assessment
15 Apr 2016 15:30 Neurology Consult
15 Apr 2016 14:33 Physician Consult

Lab and Pathology Results
All Chemistry Hematology Blood Bank Pathology Microbiology Other
Group By: None
Collection Date/Time Last Updated Ordered As Test Flag
No results available

Diagnostic Imaging Reports
Procedure Date/Time Procedure Name
02 May 2016 10:00
16 Apr 2016 15:30
15 Apr 2016 15:30

Visits/Encounters and Summary Reports
Date Type Summary Reports Organization
09 Aug 2016 Ambulatory UHN - Toronto Western Hospital
28 May 2016 Inpatient UHN - Toronto Rehab Institute
15 Apr 2016 Inpatient York General Hospital
15 Apr 2016 ED York General Hospital

Other Results
All Cardiology
Procedure Date/Time
17 Apr 2016 11:04

Community
Referral Start Date Referral Type Reason for Referral Service Details
27 Jun 2016 CCAC Referral - Home Care CVA
Displaying 1 - 1 of 1

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Ontario
United in Care

ADOPTION STEPS

Engagement

1. Understand the value
2. Fill out the Client Information Form
3. Fill out the Site Readiness Assessment

Privacy

1. Complete the OntarioMD Privacy and Security online Module
2. Understand your privacy obligations

Security

1. Complete the Security Officer online Training Module
2. Remediate Security gaps
3. Send the completed security assessment to ConnectingSecurity

Legal

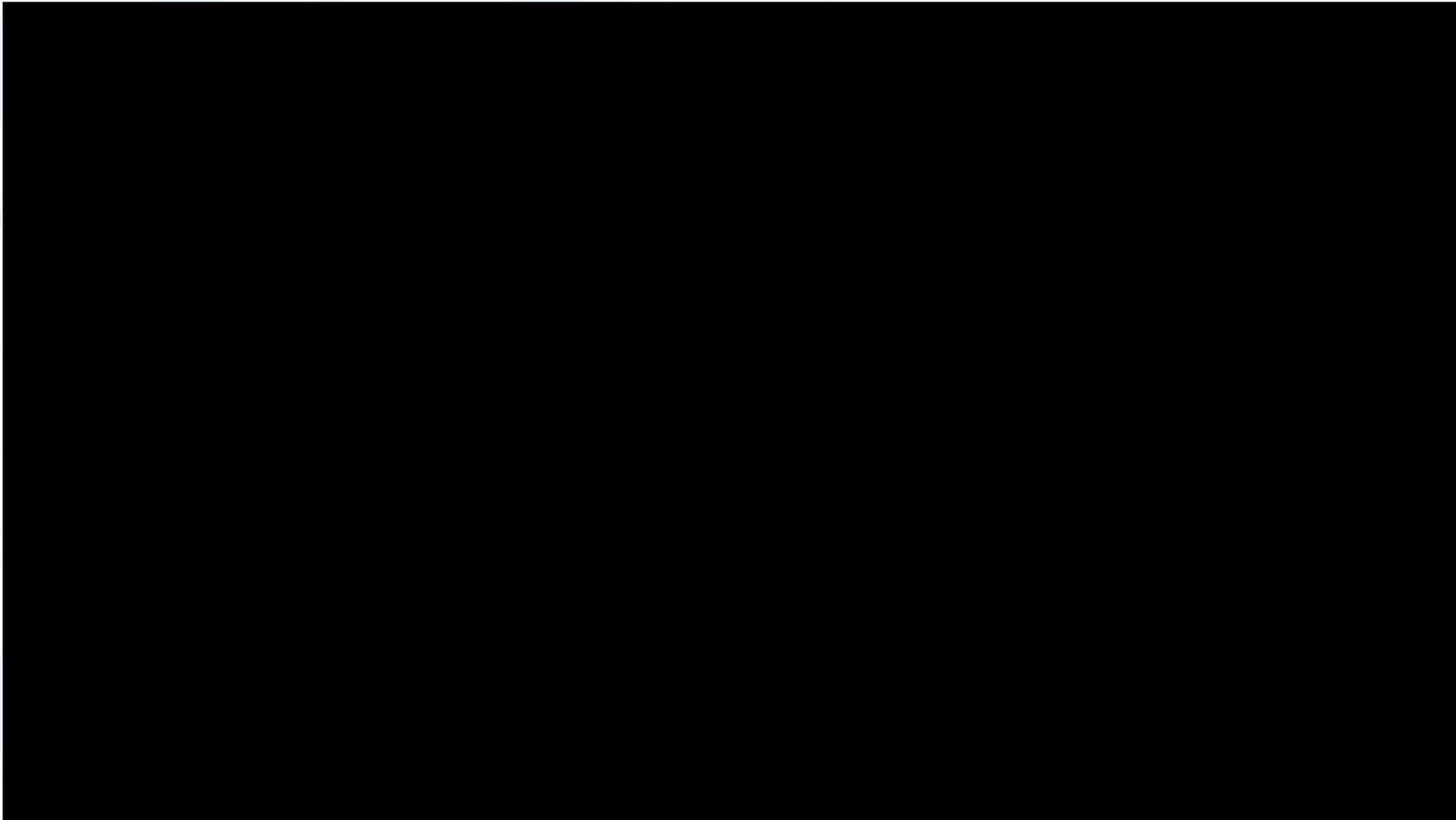
1. Complete legal agreements

ONE® ID

1. Obtain ONE ID Account
2. Obtain ONE Mail account

GO-LIVE STEPS

Sorting



© Warner Bros. Pictures



Which House do you Belong In?



Take the quiz (...not now)

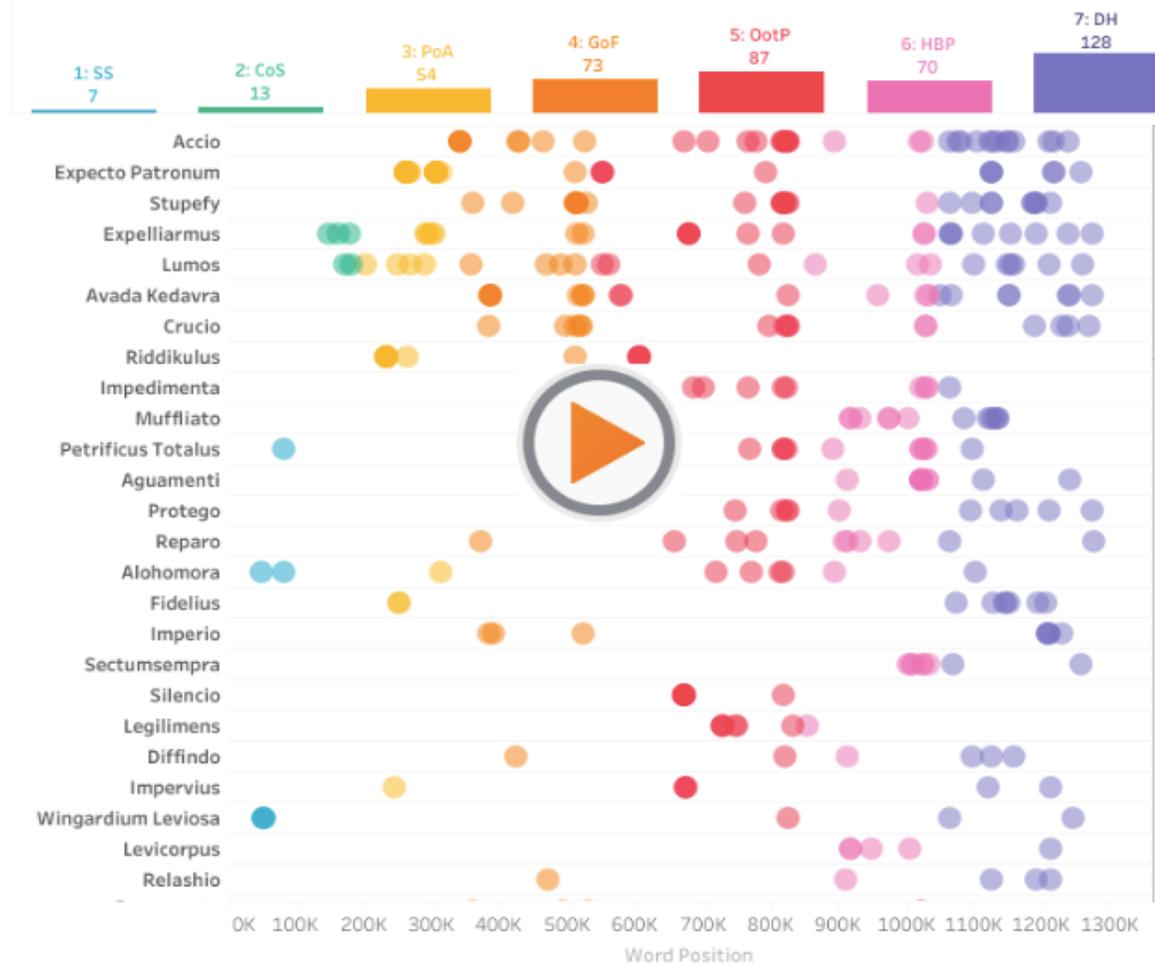
<http://time.com/4809884/harry-potter-house-sorting-hat-quiz/>

OntarioMD EMR Quality Dashboard

The Spells of Harry Potter

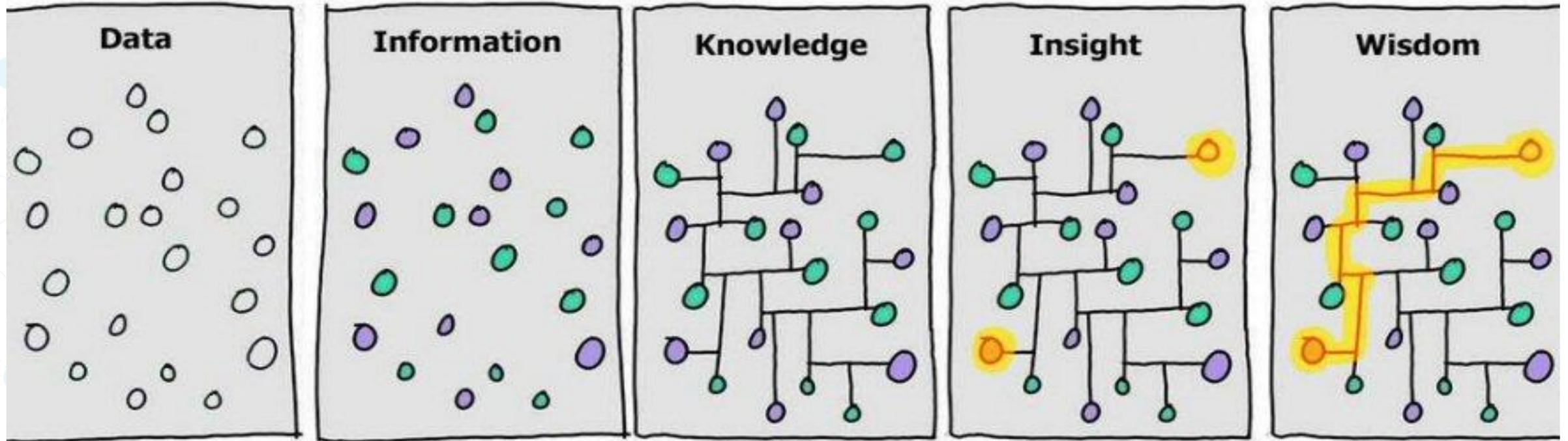
spells explicitly said aloud in the books, excludes non-verbal and implied magic

Sort By: Most Occurrences



tableau

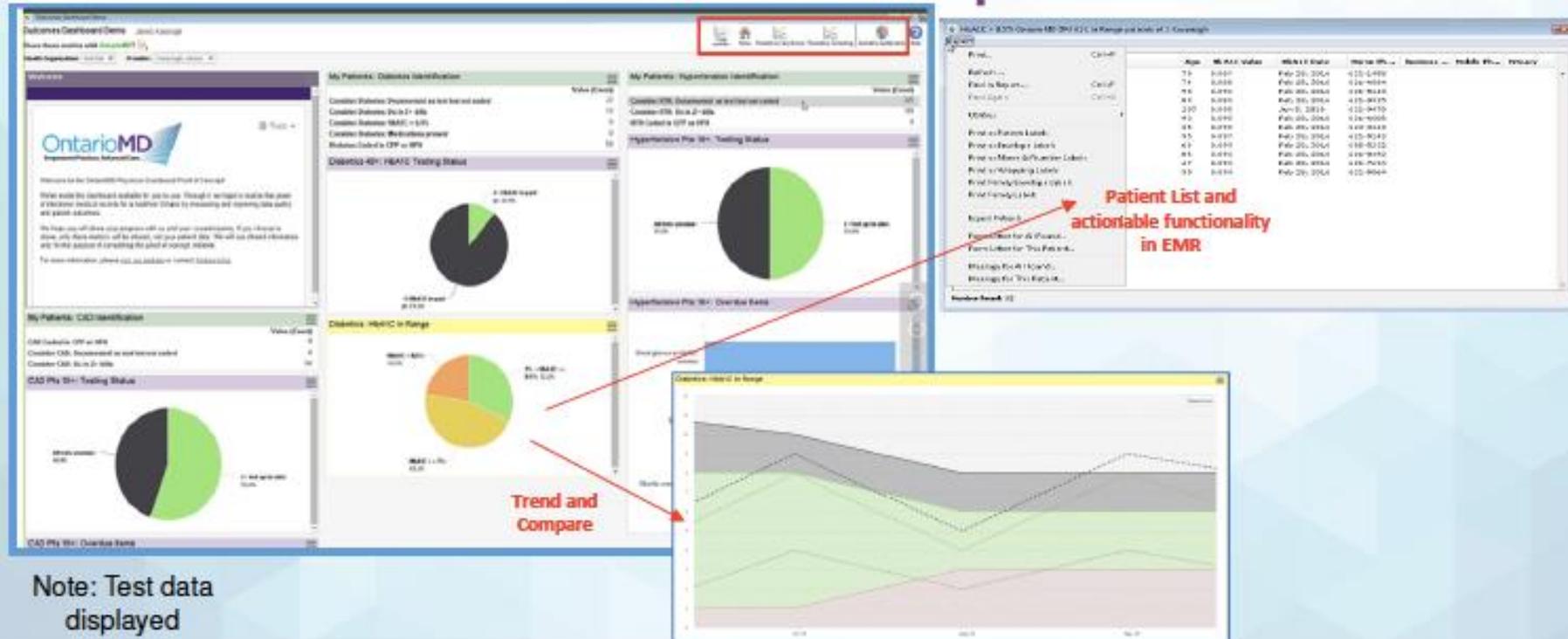
OntarioMD EMR Quality Dashboard



gapingvoid

OntarioMD EMR Quality Dashboard

Common Dashboard Framework – Example Proof of Concept



OntarioMD EMR Quality Dashboard

Recognized value of the dashboard

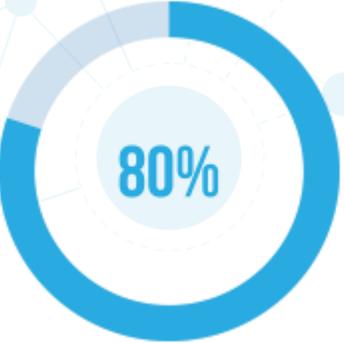
- To identify patients
- To have real-time data
- To create patient lists
- To show improved patient outcomes

Liked how OntarioMD helped with learning to use Dashboard

Shared data with OntarioMD to improve the Dashboard



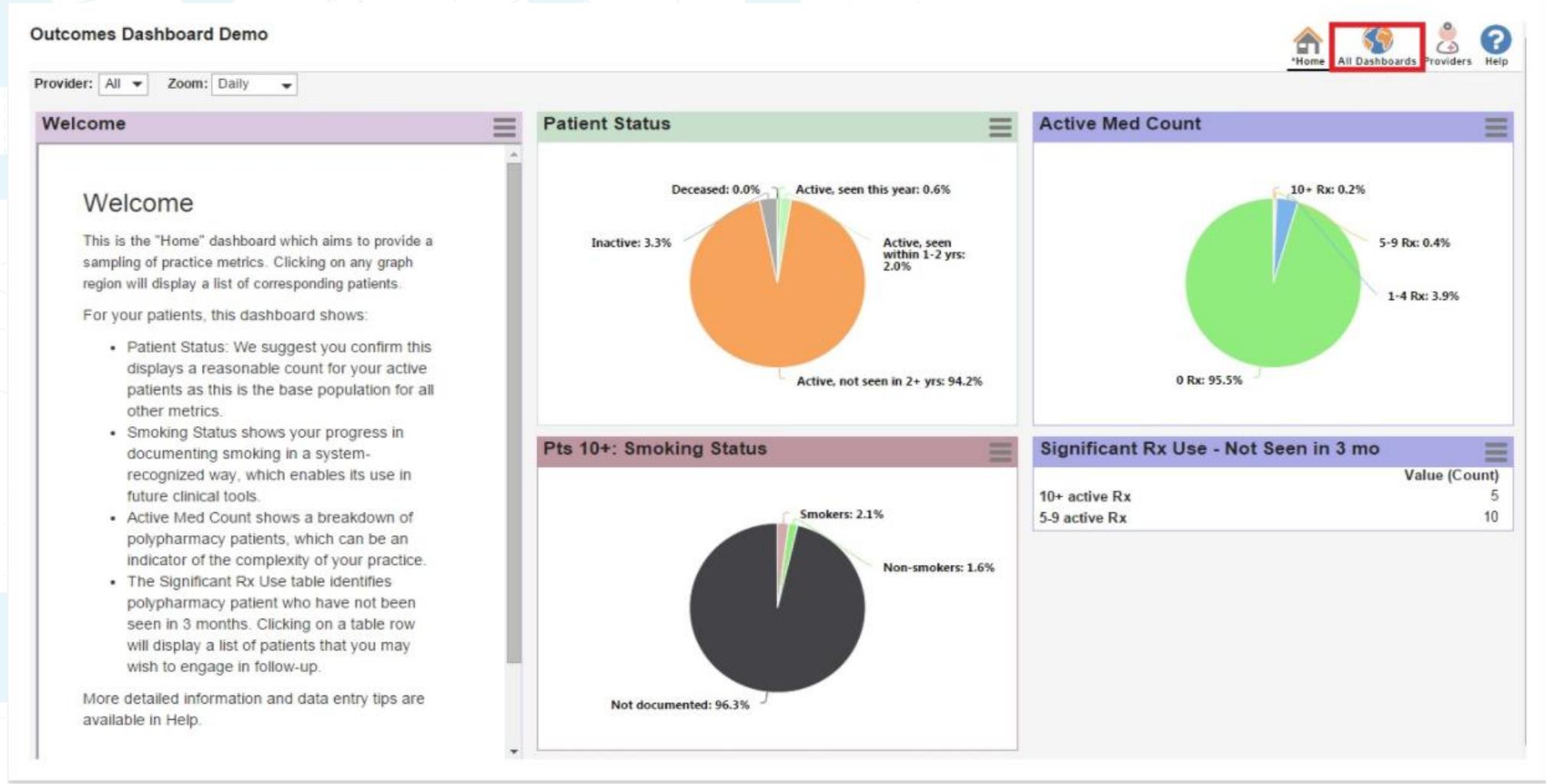
75%



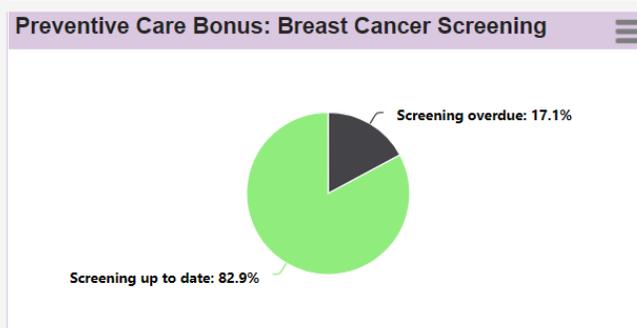
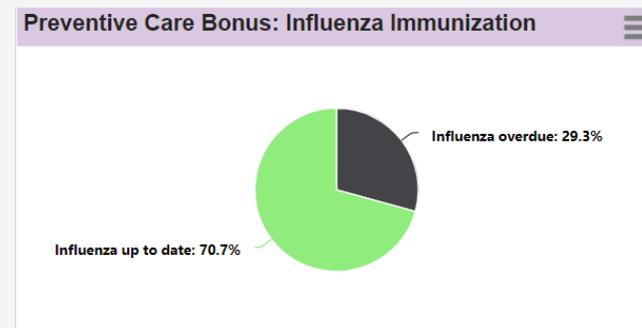
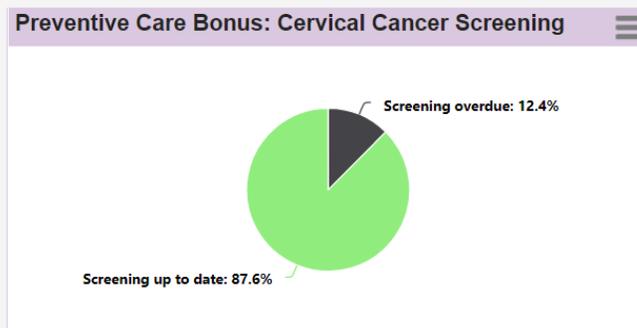
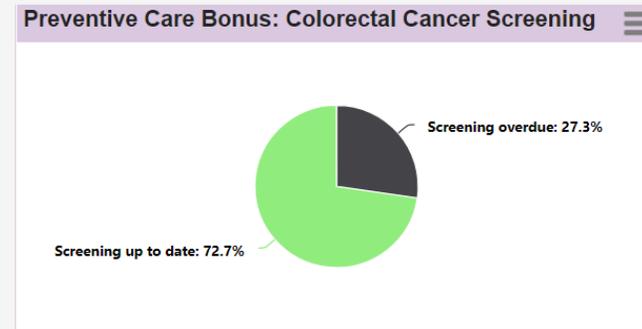
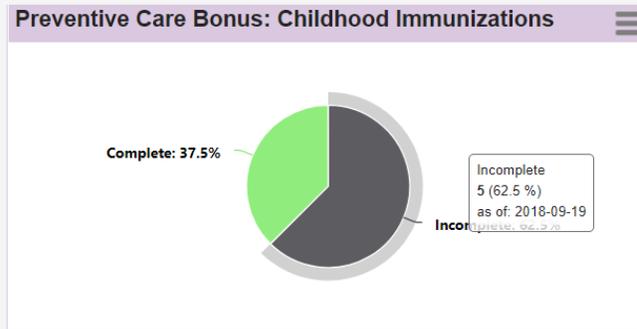
80%



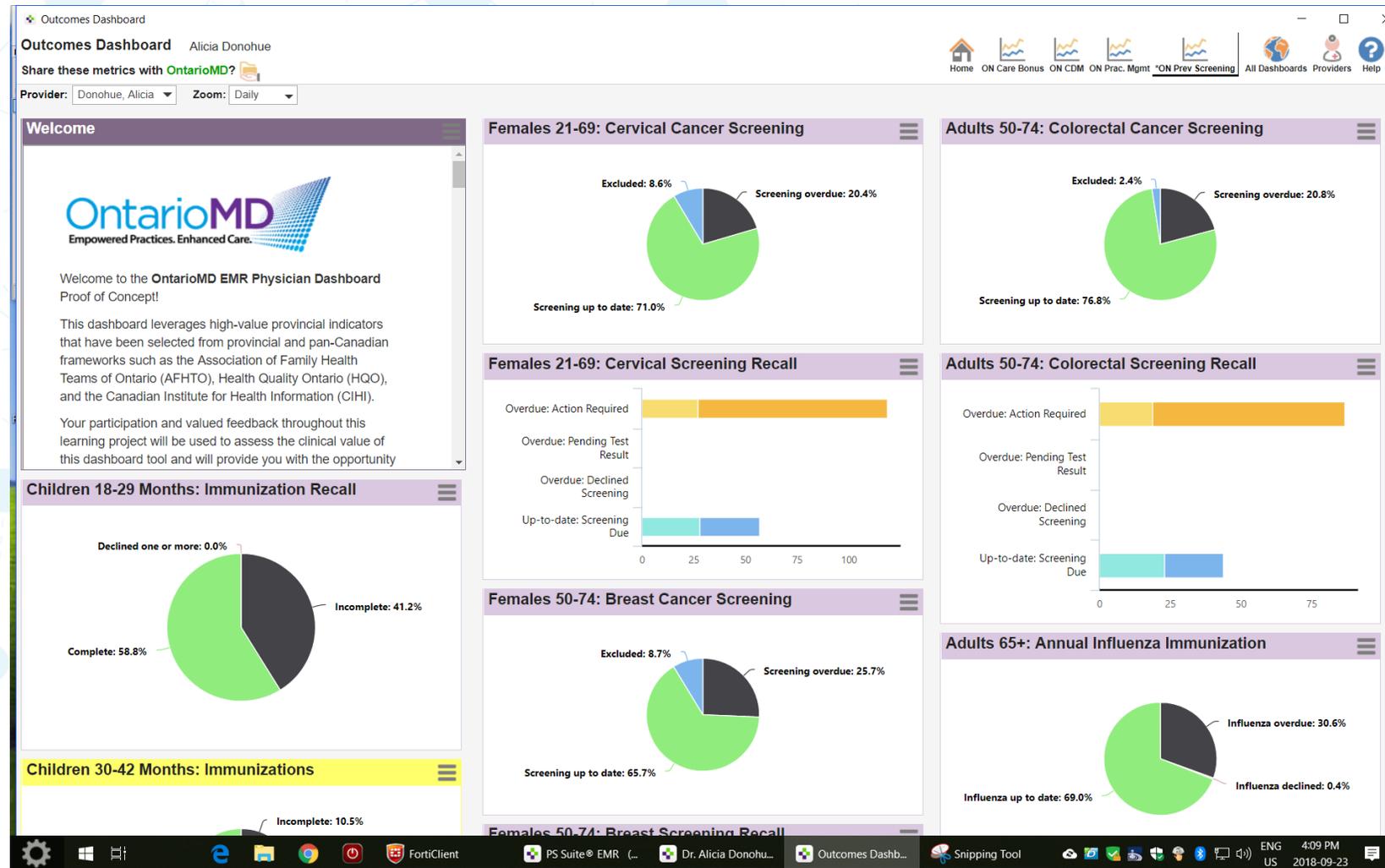
OntarioMD EMR Quality Dashboard



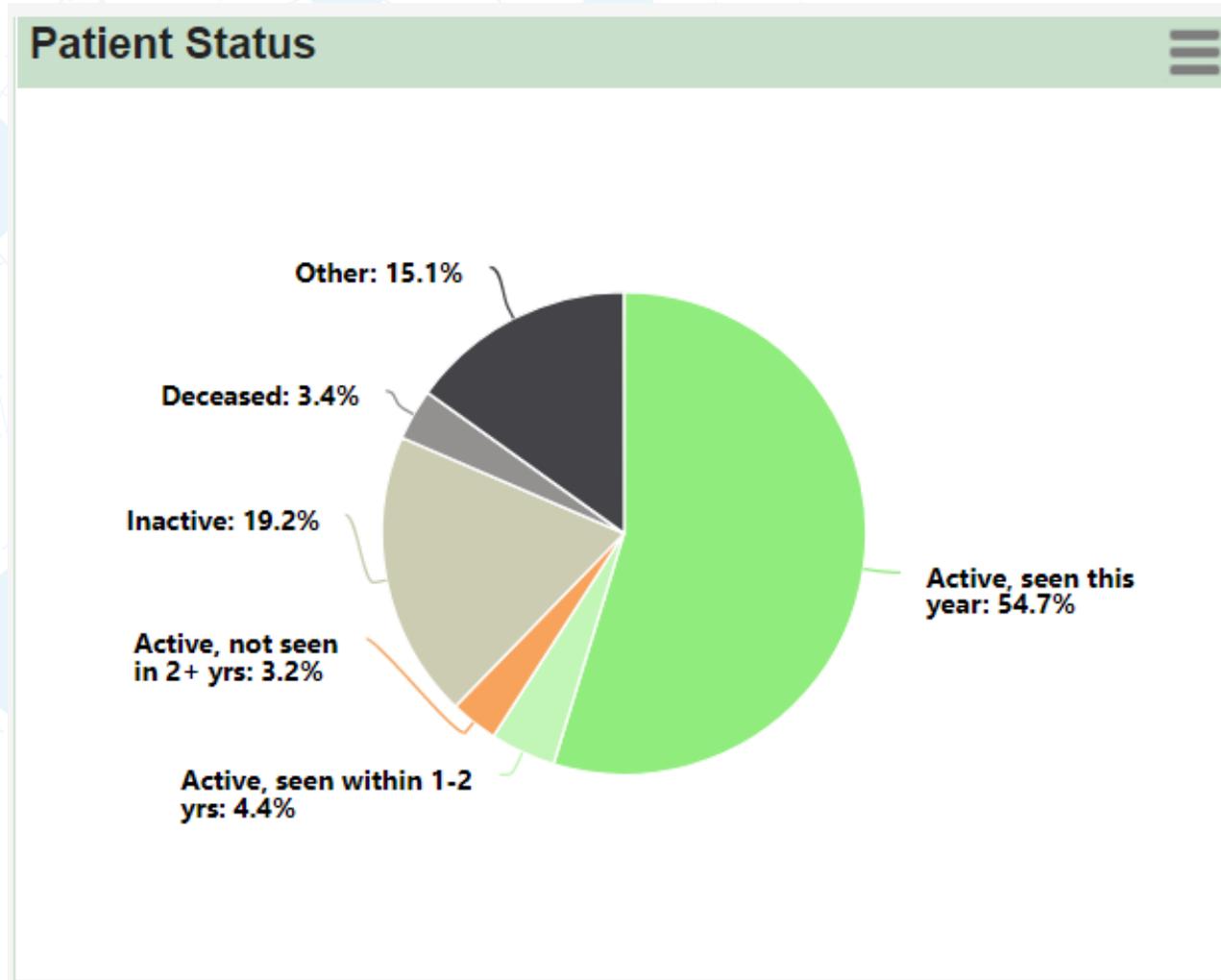
OntarioMD EMR Quality Dashboard-Preventive Care



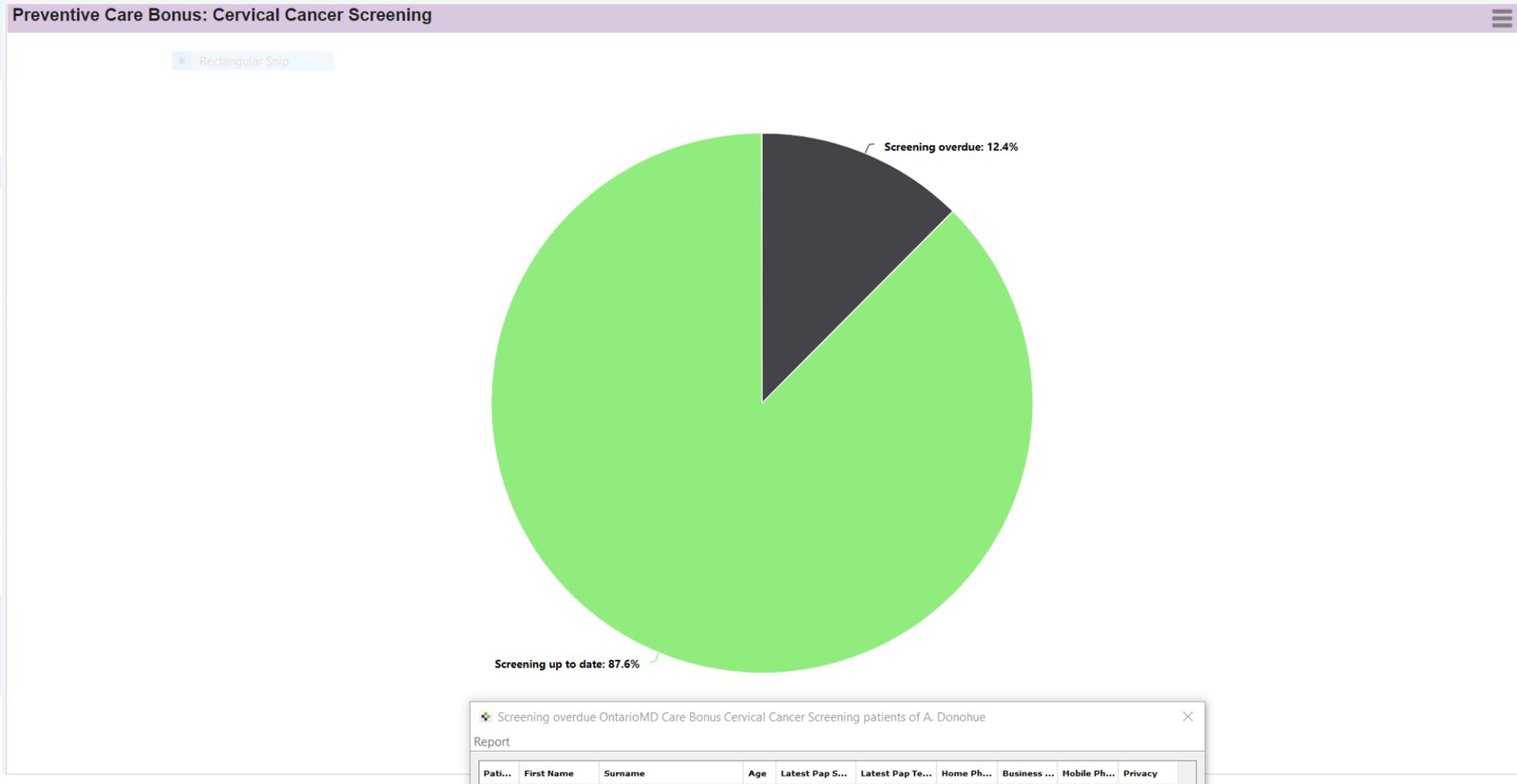
OntarioMD EMR Quality Dashboard-screening, immunizations



OntarioMD EMR Quality Dashboard-patient status

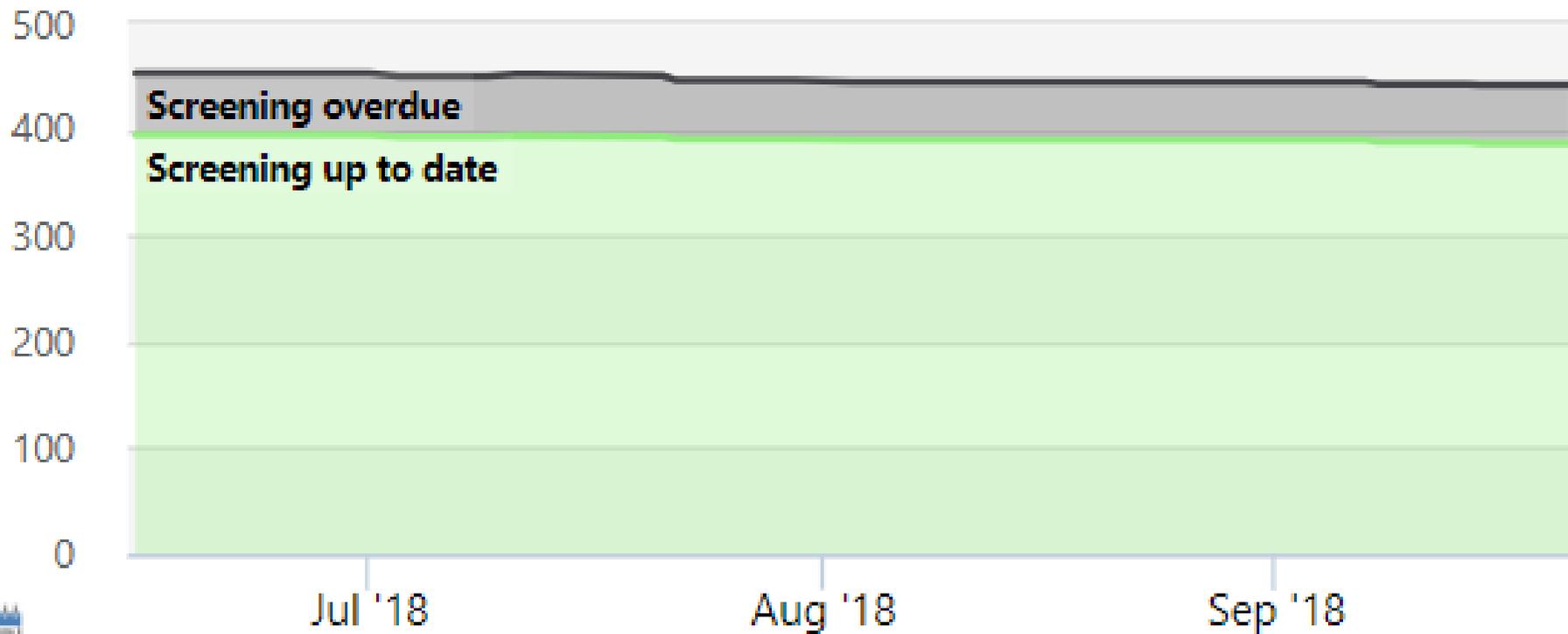


OntarioMD EMR Quality Dashboard-cervical screening

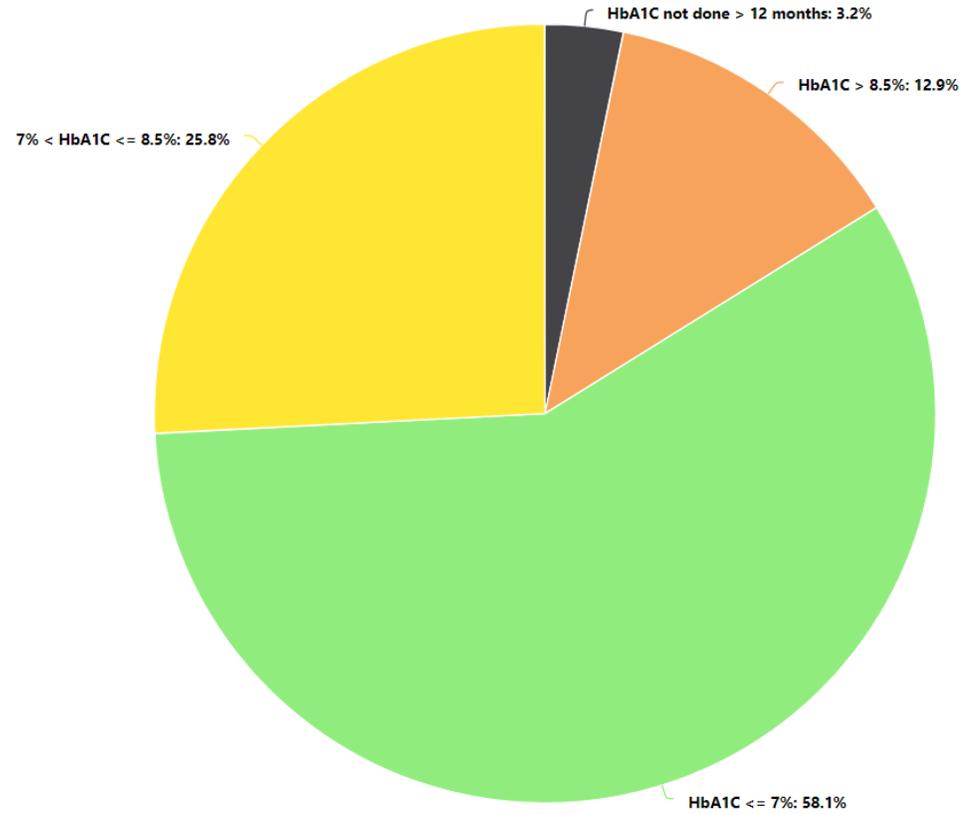


OntarioMD EMR Quality Dashboard-trend

Preventive Care Bonus: Cervical Cancer Screening



OntarioMD EMR Quality Dashboard-HbA1c

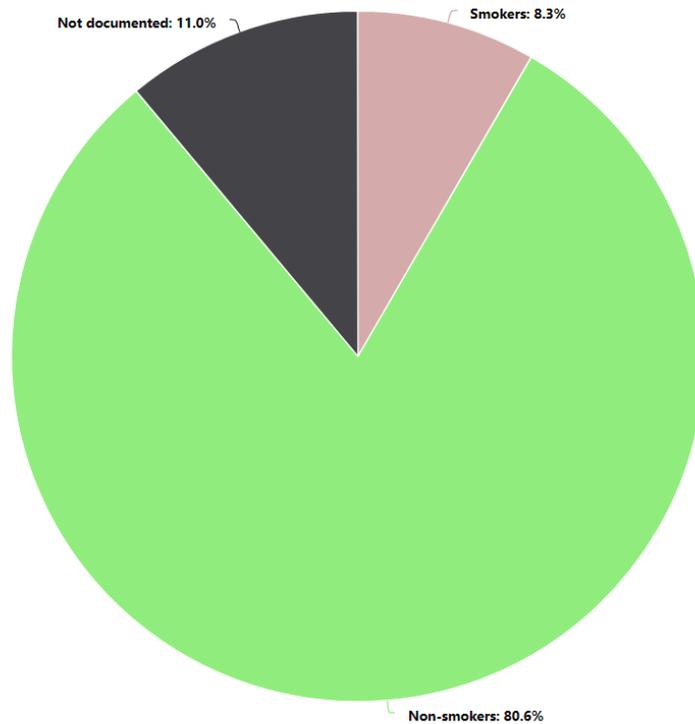


HbA1c not done > 12 months OntarioMD DM A1C in Range patients of A. Donohue

Report

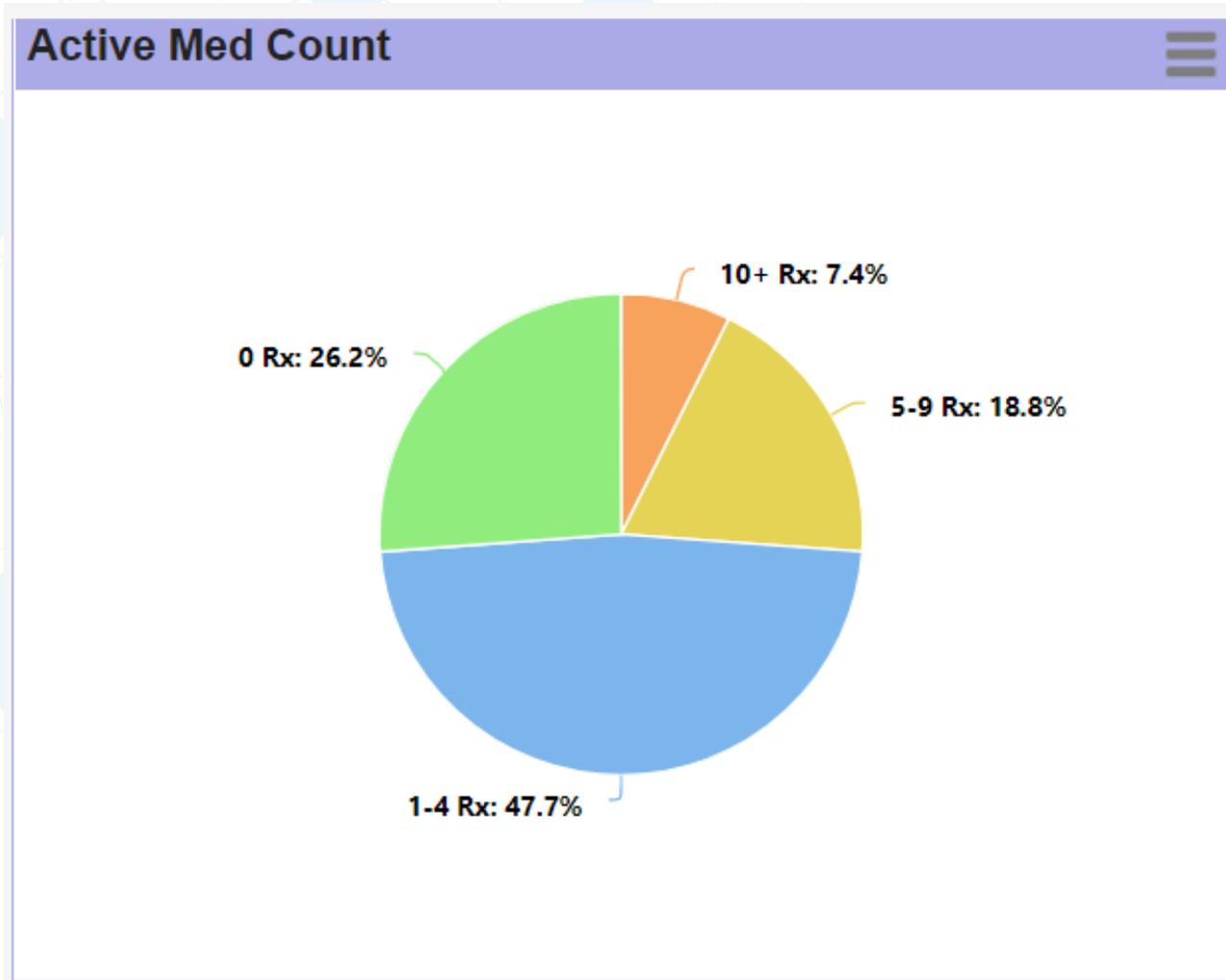
Pati...	First Name	Surname	Age	HbA1C Value	HbA1C Date	Last Seen	Next Appoint...	Home Ph...	Business ...	Mobile Ph...	Privacy
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OntarioMD EMR Quality Dashboard-smokers, non-smokers and ?



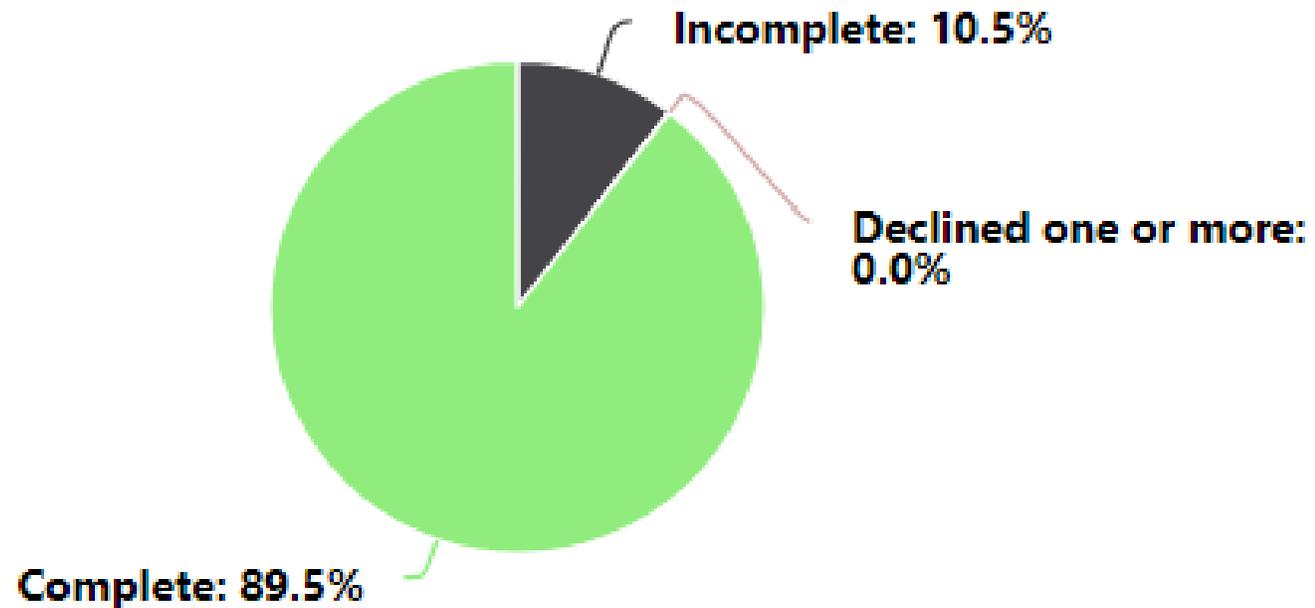
Smokers Home - Smoking status patients of A. Donohue							Not documented Home - Smoking status patients of A. Donohue						
Report							Report						
Pati...	Surname	First Name	Age	Home Ph...	Business ...	Mobile P...	Pati...	Surname	First Name	Age	Home Ph...	Business ...	Mobile

OntarioMD EMR Quality Dashboard-active medication count



OntarioMD EMR Quality Dashboard

Children 30-42 Months: Immunizations



OntarioMD EMR Quality Dashboard-when?



Preventive Care Payments-MOHLTC

Get your Flu Shot!



Appointments for Dr. Alicia Donohue

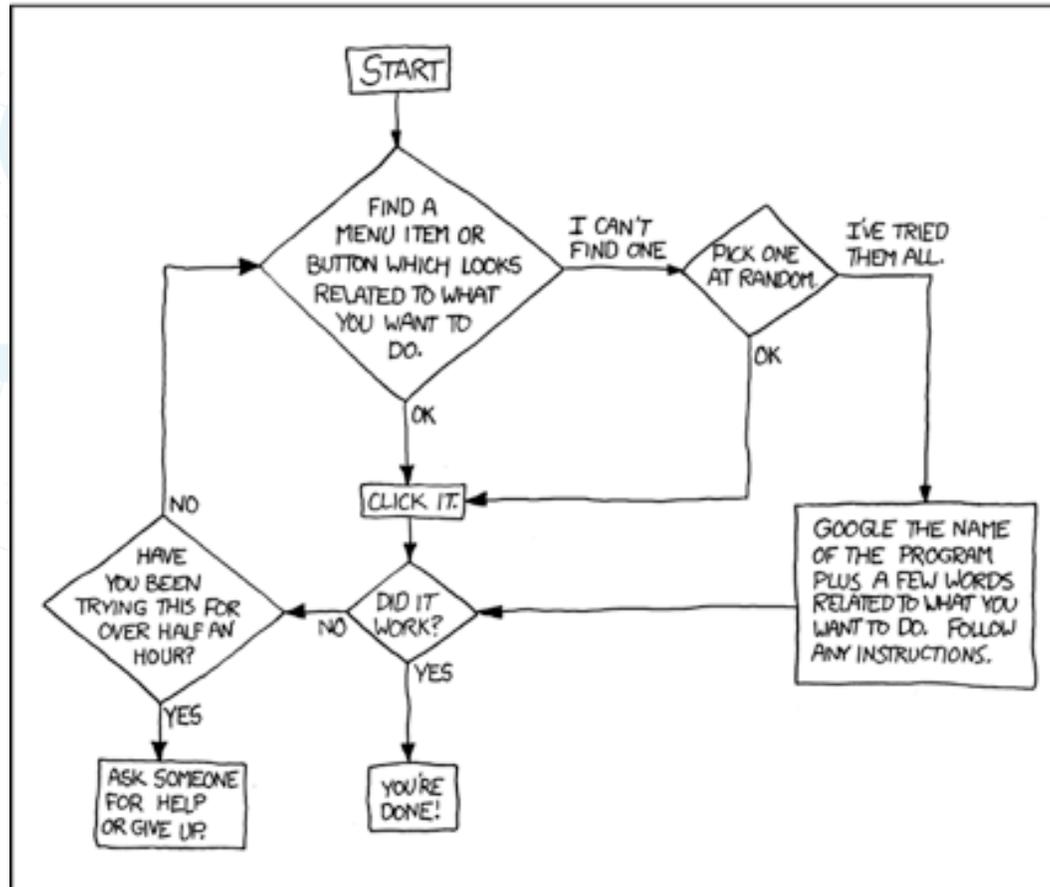
Appointments Edit Find View By Providers View Print

2018 Sep Action:

Time	Thu, Sep 27, 2018
6:45	x
7:00AM	xxxxx do not book OMD EveryStep Conference Toronto xxxxxxxxxx
7:15	
7:30	Dashboard
7:45	
8:00AM	
8:15	
8:30	
8:45	
9:00AM	
9:15	
9:30	

DEAR VARIOUS PARENTS, GRANDPARENTS, CO-WORKERS,
AND OTHER "NOT COMPUTER PEOPLE."

WE DON'T MAGICALLY KNOW HOW TO DO EVERYTHING IN EVERY
PROGRAM. WHEN WE HELP YOU, WE'RE USUALLY JUST DOING THIS:



PLEASE PRINT THIS FLOWCHART OUT AND TAPE IT NEAR YOUR SCREEN.
CONGRATULATIONS; YOU'RE NOW THE LOCAL COMPUTER EXPERT!

Questions?

<https://www.xkcd.com/627/>

