



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

**Connecting Ontario
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 Clinical Lead ConnectingOntario-NER (July 2015-May 2018)
 - South-East Service Delivery Partner Clinical Lead ConnectingOntario-NER (Jan 2019-present)
 - 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**

ConnectingOntario

Provincial Electronic Health Record (EHR)

Question

Are you aware of the provincial EHR ?

ConnectingOntario

ClinicalViewer

or

ClinicalConnect

Question

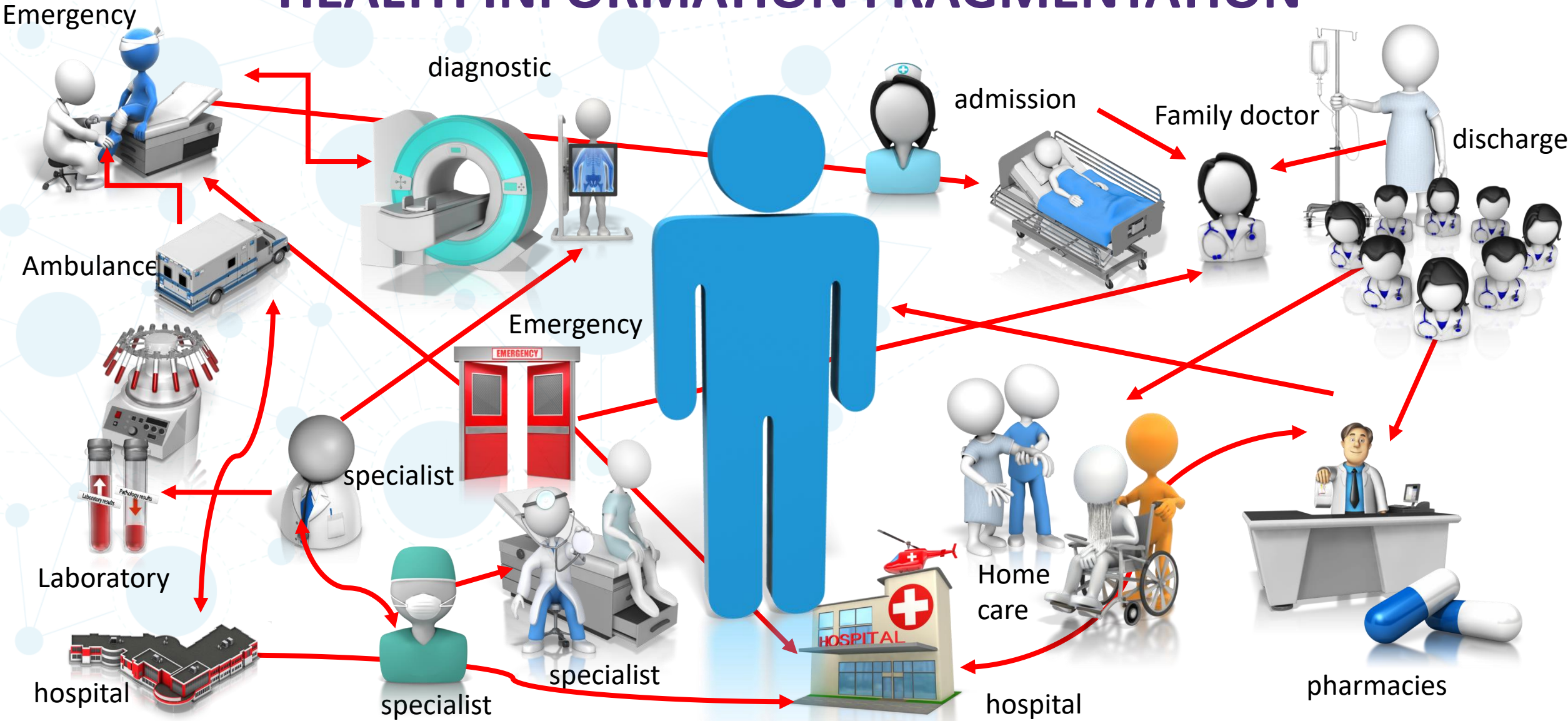
Are you a user of the provincial EHR?

Question

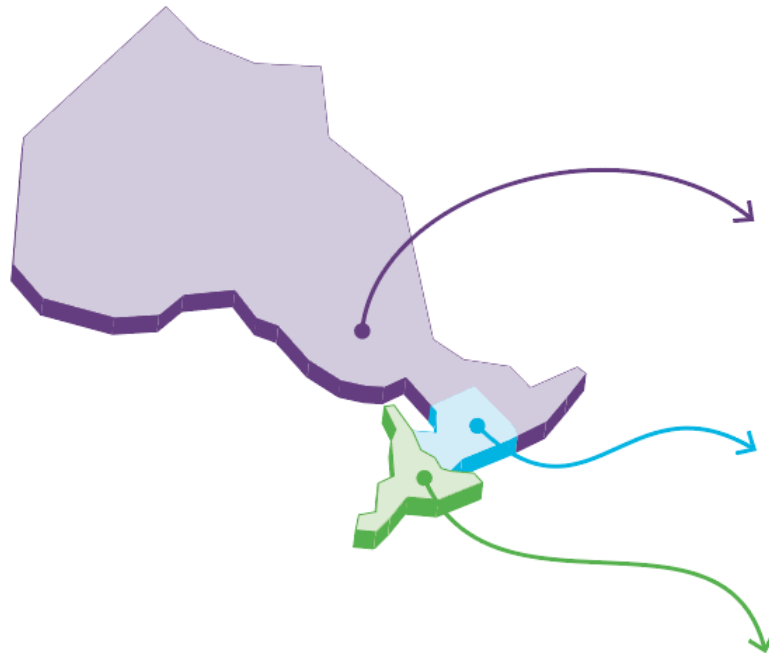
Are you knowledgeable of what data is available in the EHR?



HEALTH INFORMATION FRAGMENTATION



ConnectingOntario A Provincial Solution



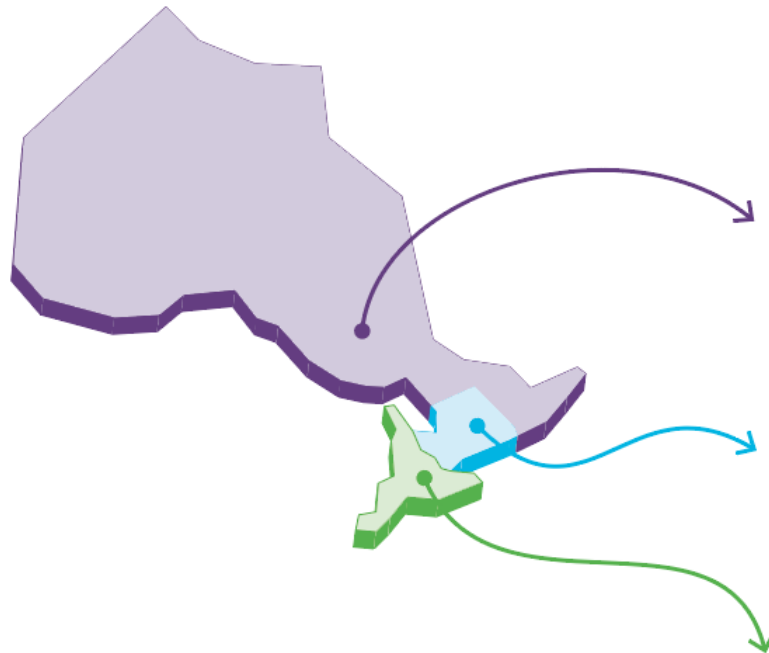
ConnectingOntario

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

ConnectingOntario ClinicalViewer

Patient Demographics

Timeline (snapshot of history)

Medications

Dispensed Date	Generic Name	Brand Name	Strength	Form
27 Mar 2016	ACETYSALICYLIC ACID	Novascan	325mg	DRAL/E
27 Feb 2016	FLUGESTINE	Prinair	10mg	DRAL/T
10 Feb 2016	Sulfamethoxazole	Scale Trim	400mg & 80mg	DRAL/T
27 Dec 2015	MediCheck LTC Annual	Meds Check		
20 Dec 2015	ROSUVASTATIN	Aperis	20mg	DRAL/T
20 Dec 2015	HYDROCHLORIDE	Apemyl	25mg	DRAL/T
09 Dec 2015	PERINDOPRIL ERUBINE	Coversyl	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

Diagnostic Imaging Reports and Images

Other Results

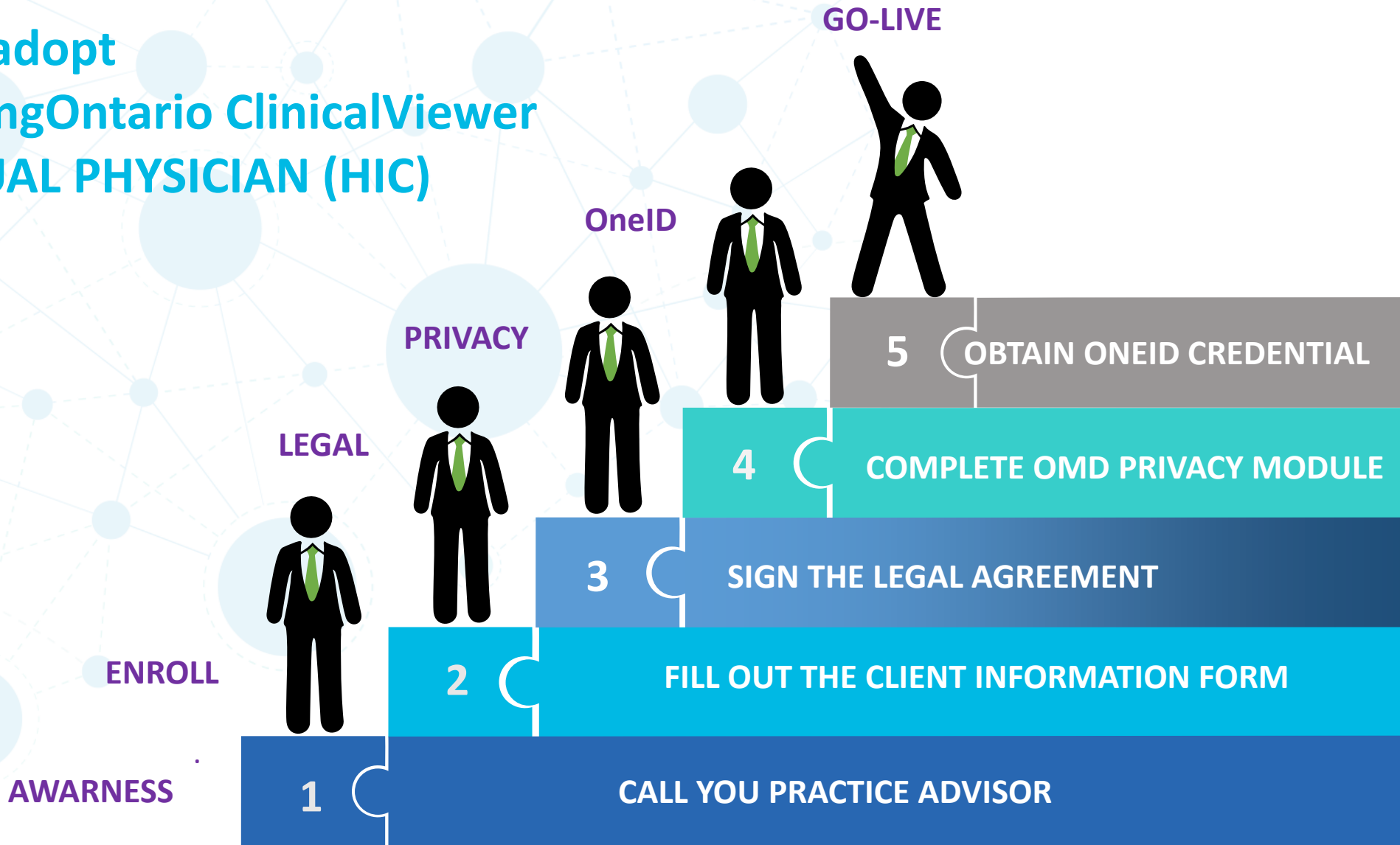
Visits/Encounters and Summary Reports

Date	Type	Summary Reports	Organization
09 Aug 2016	Ambulatory		St. Joseph's Western Hospital
28 May 2016	Inpatient		Toronto Rehab Institute
15 Apr 2016	Inpatient		St. Michael's Hospital
15 Apr 2016	ED		St. Michael's Hospital

Community

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

Steps to adopt ConnectingOntario ClinicalViewer INDIVIDUAL PHYSICIAN (HIC)



Steps to adopt ConnectingOntario ClinicalViewer GROUPS/ORGANIZATIONS

AWARNNESS

ENROLL

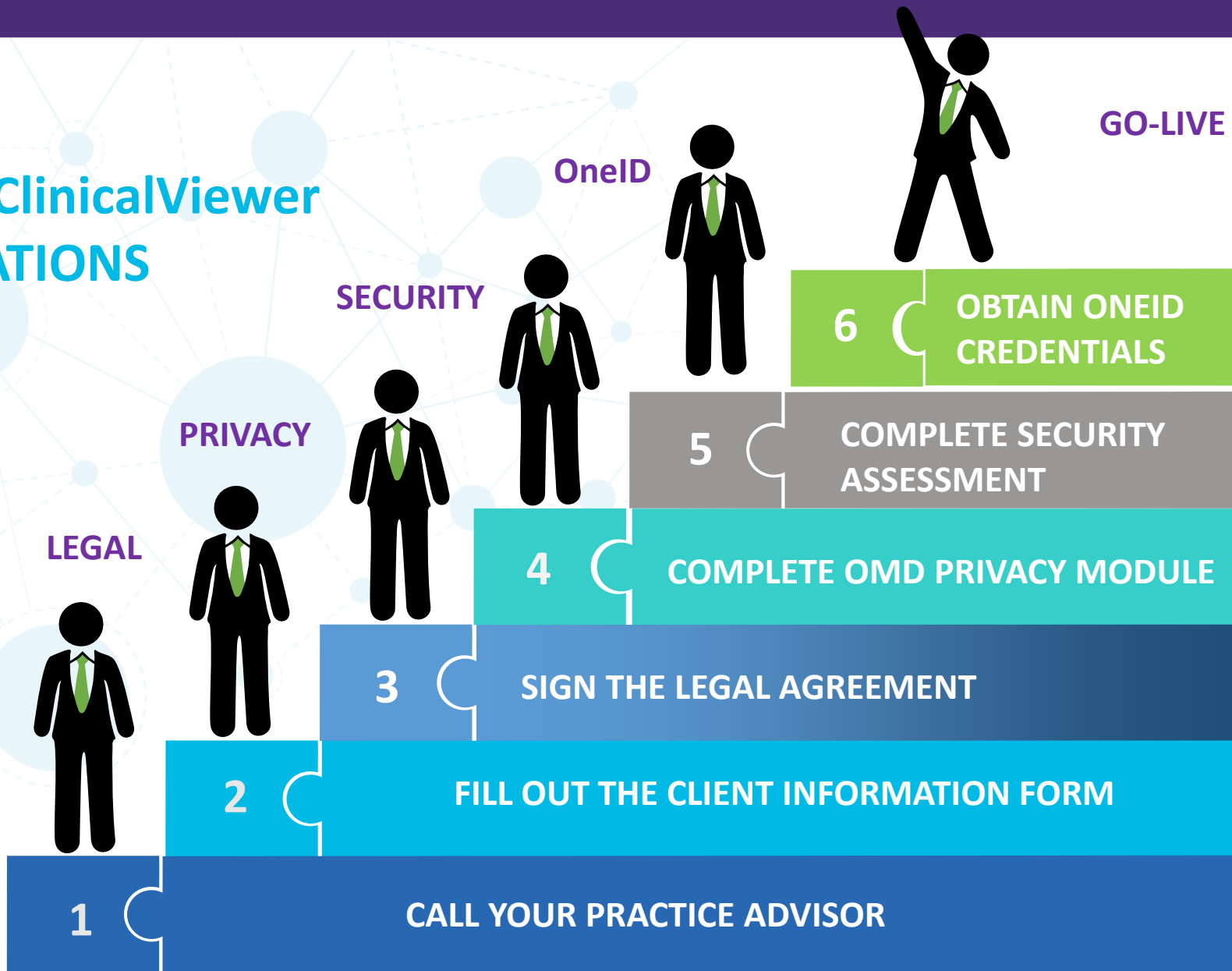
LEGAL

PRIVACY

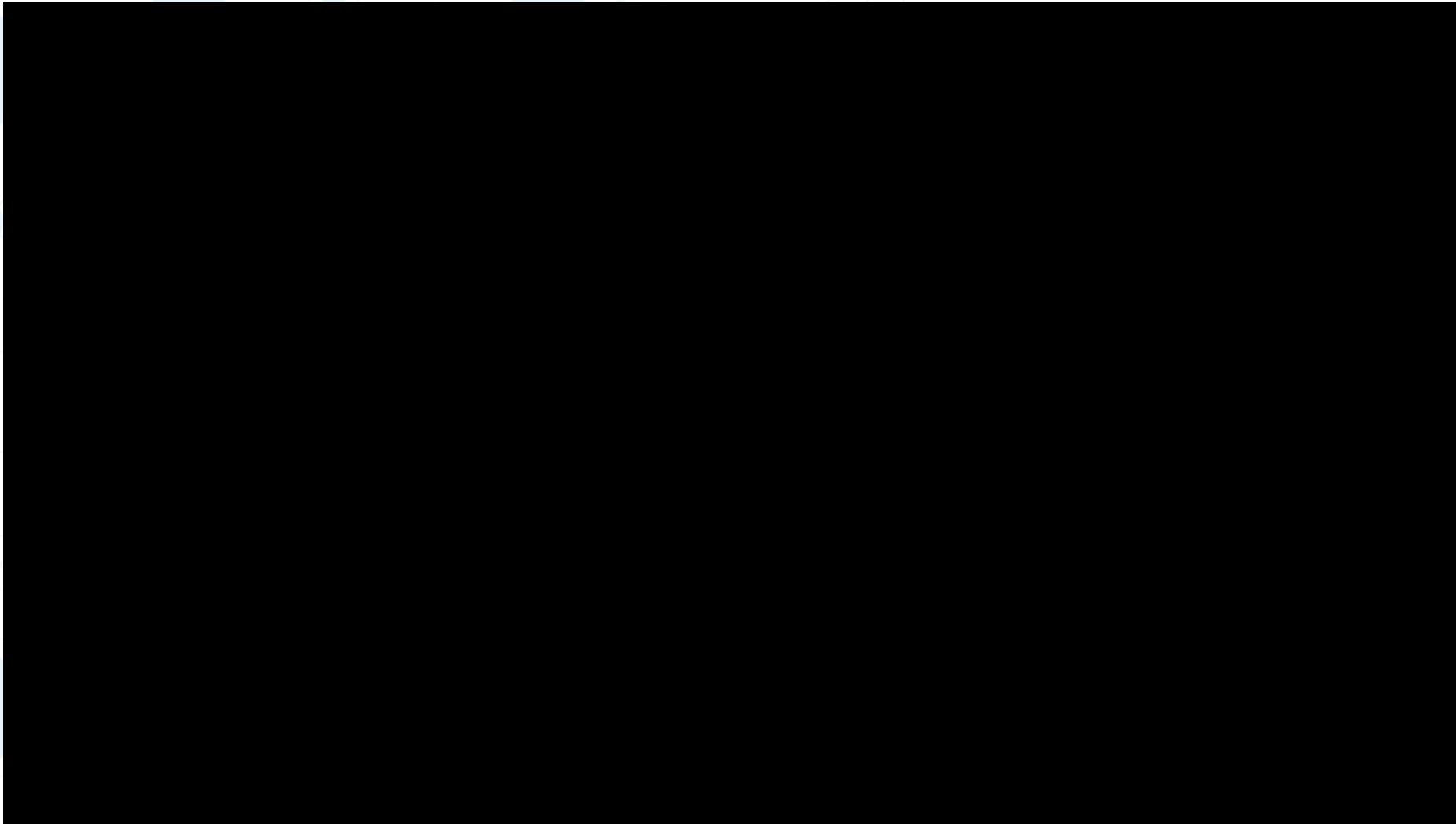
SECURITY

OneID

GO-LIVE



Sorting



© Warner Bros. Pictures



EMR: EVERY STEP
CONFERENCE

#OMDESC19



Which House do you Belong In?



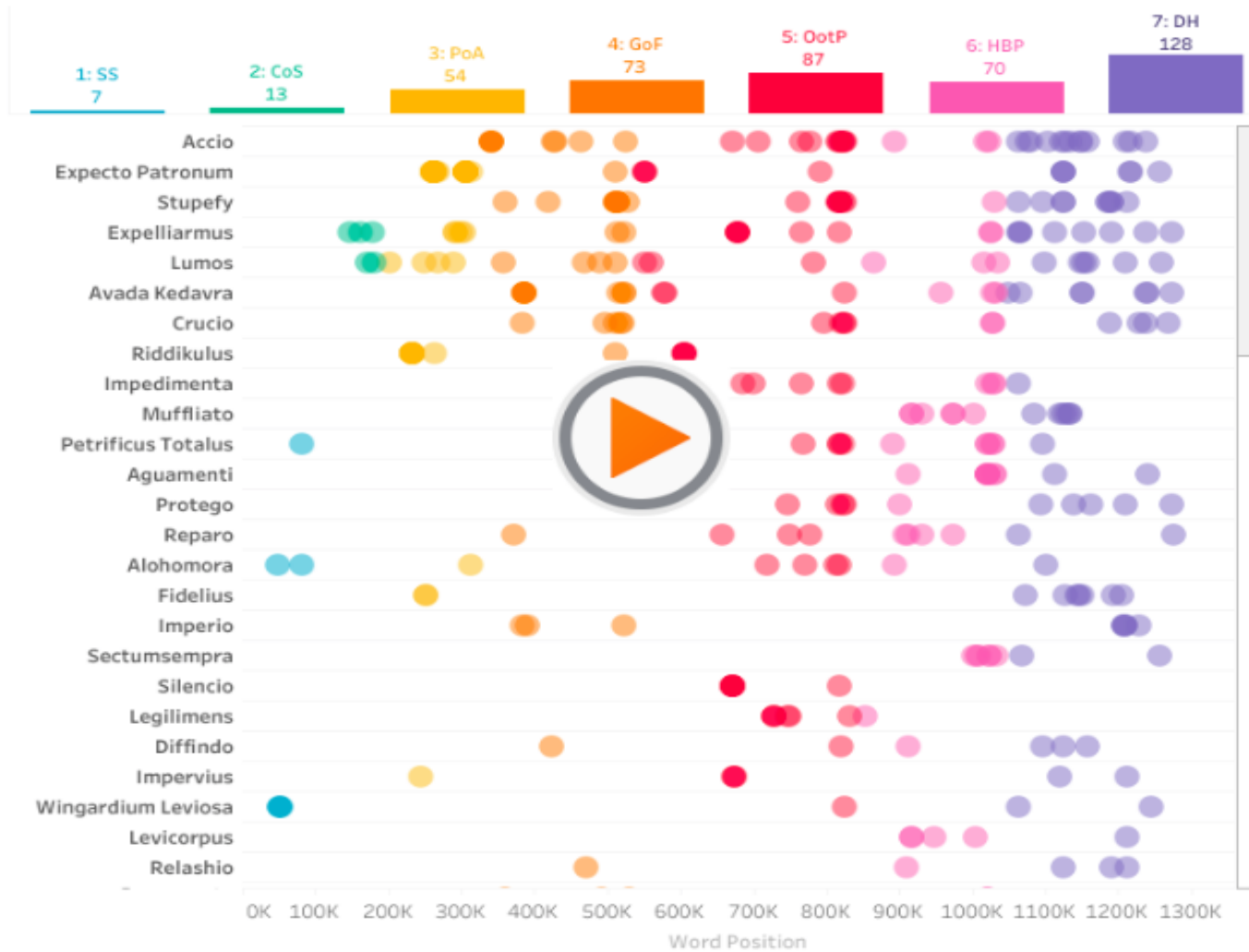
Take the quiz (...not now)

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

The Spells of Harry Potter

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

Sort By: Most Occurrences



<https://public.tableau.com/profile/skybjohnson#!/vizhome/TheSpellofHarryPotter/HarryPotterSpells>

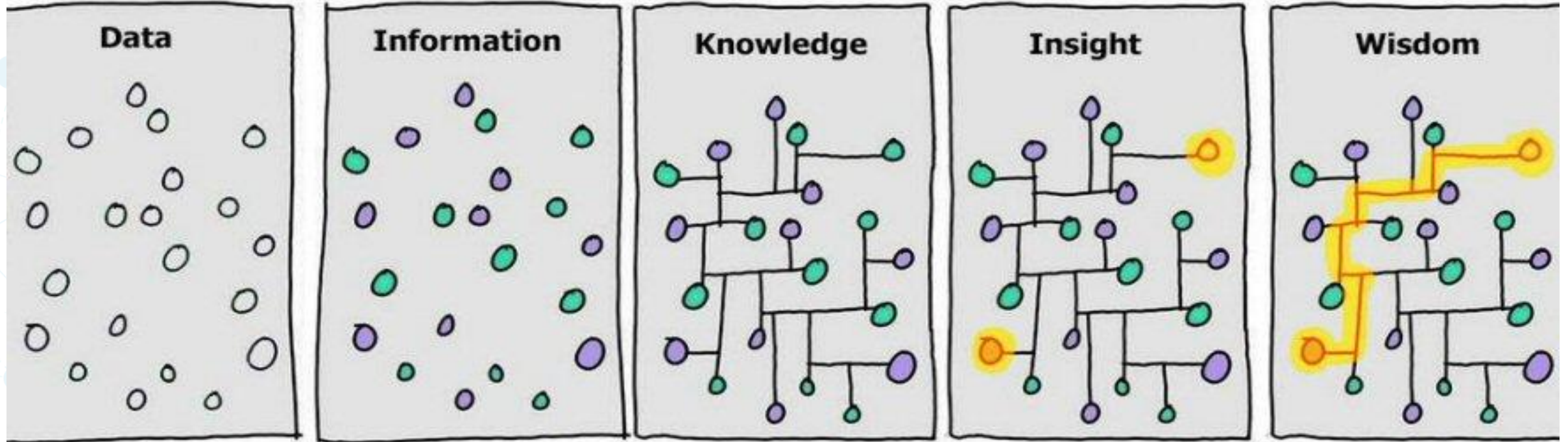
OntarioMD EMR Quality Dashboard



Hans Rosling Data Visualization

<https://www.youtube.com/watch?v=jbkSRLYSojo>

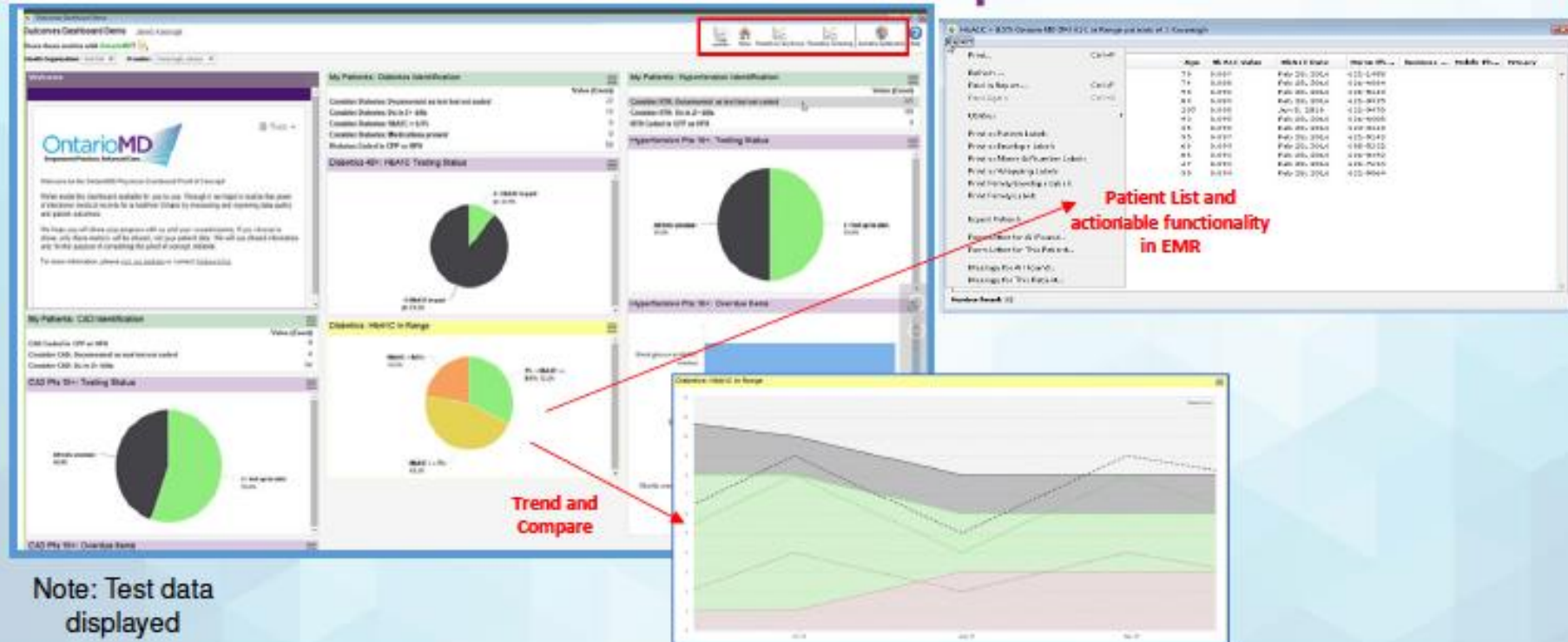
OntarioMD EMR Quality Dashboard



gapingvoid

OntarioMD EMR Quality Dashboard

Common Dashboard Framework – Example Proof of Concept



OntarioMD EMR Quality Dashboard

75% Recognized value of the dashboard

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

80% Liked how OntarioMD helped with learning to use Dashboard

Shared data with OntarioMD to improve the Dashboard

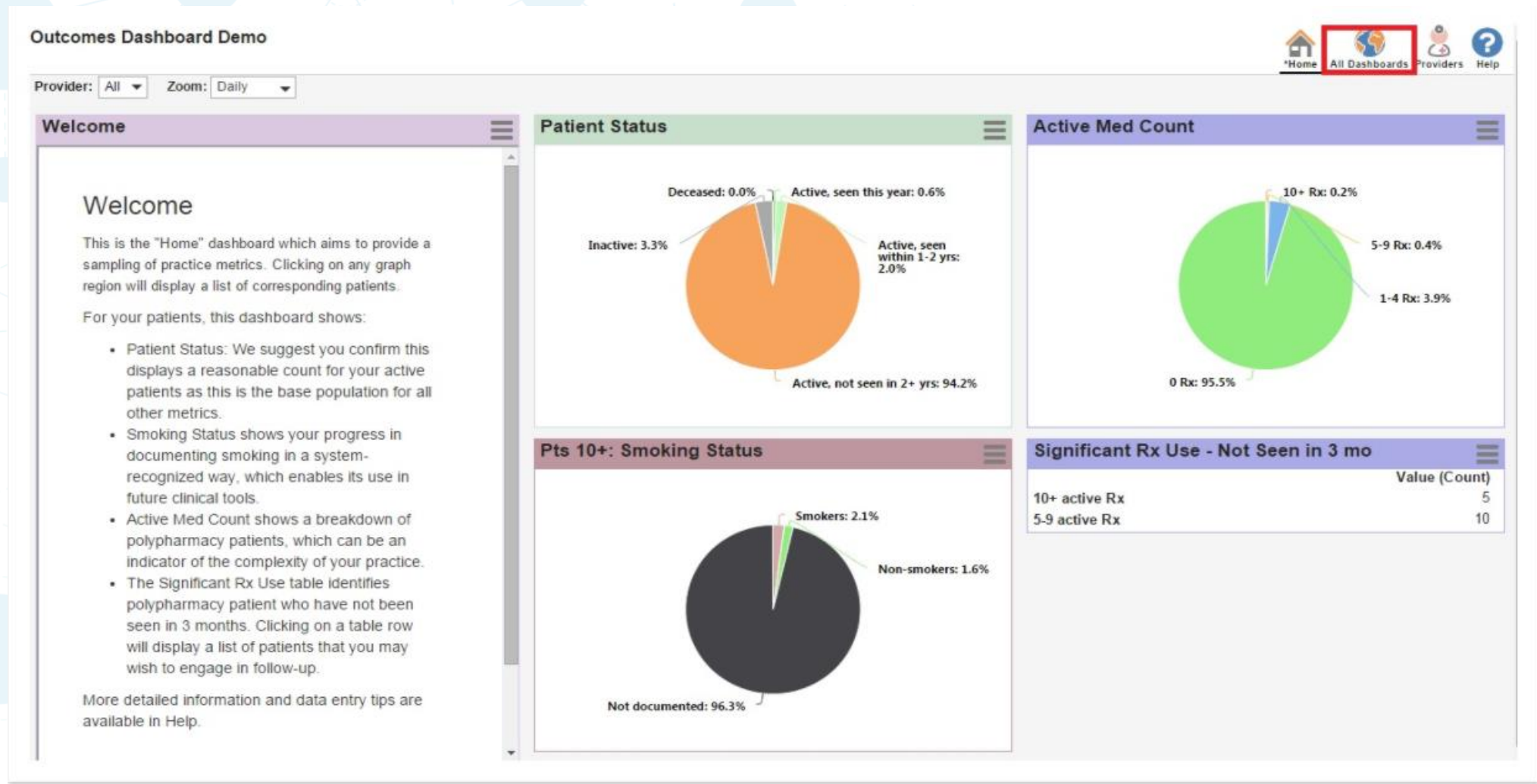


75%



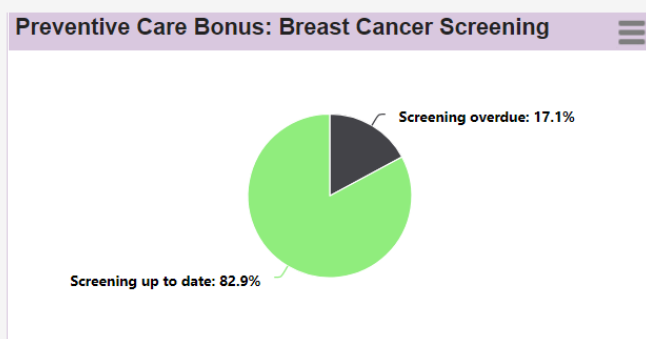
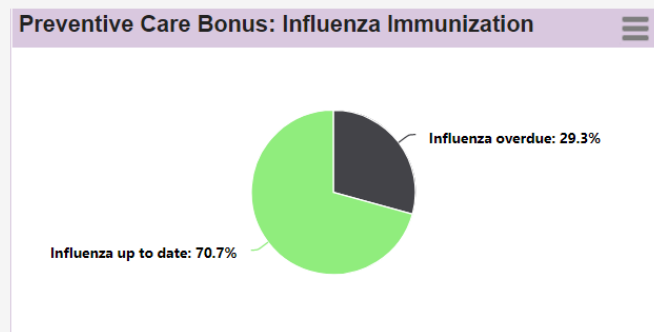
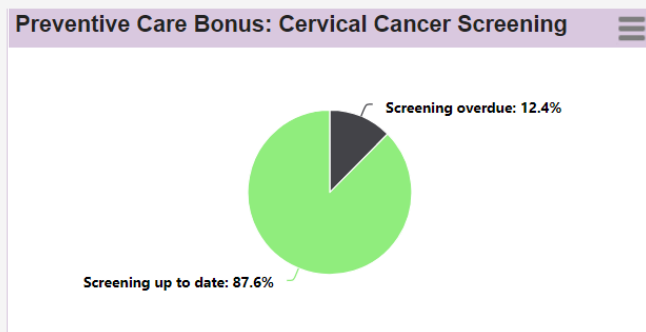
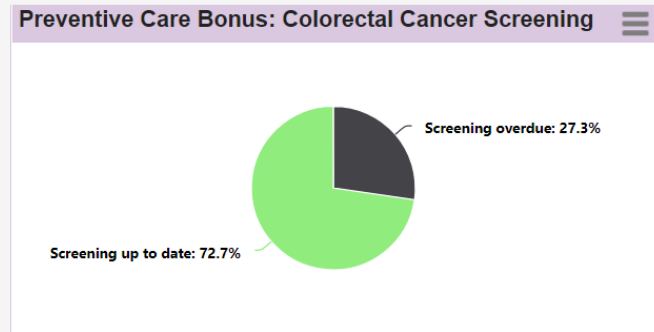
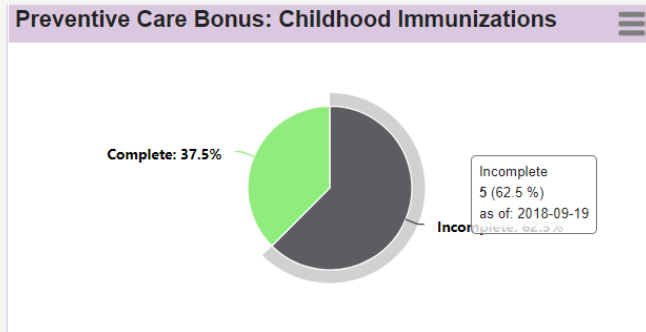
80%

OntarioMD EMR Quality Dashboard

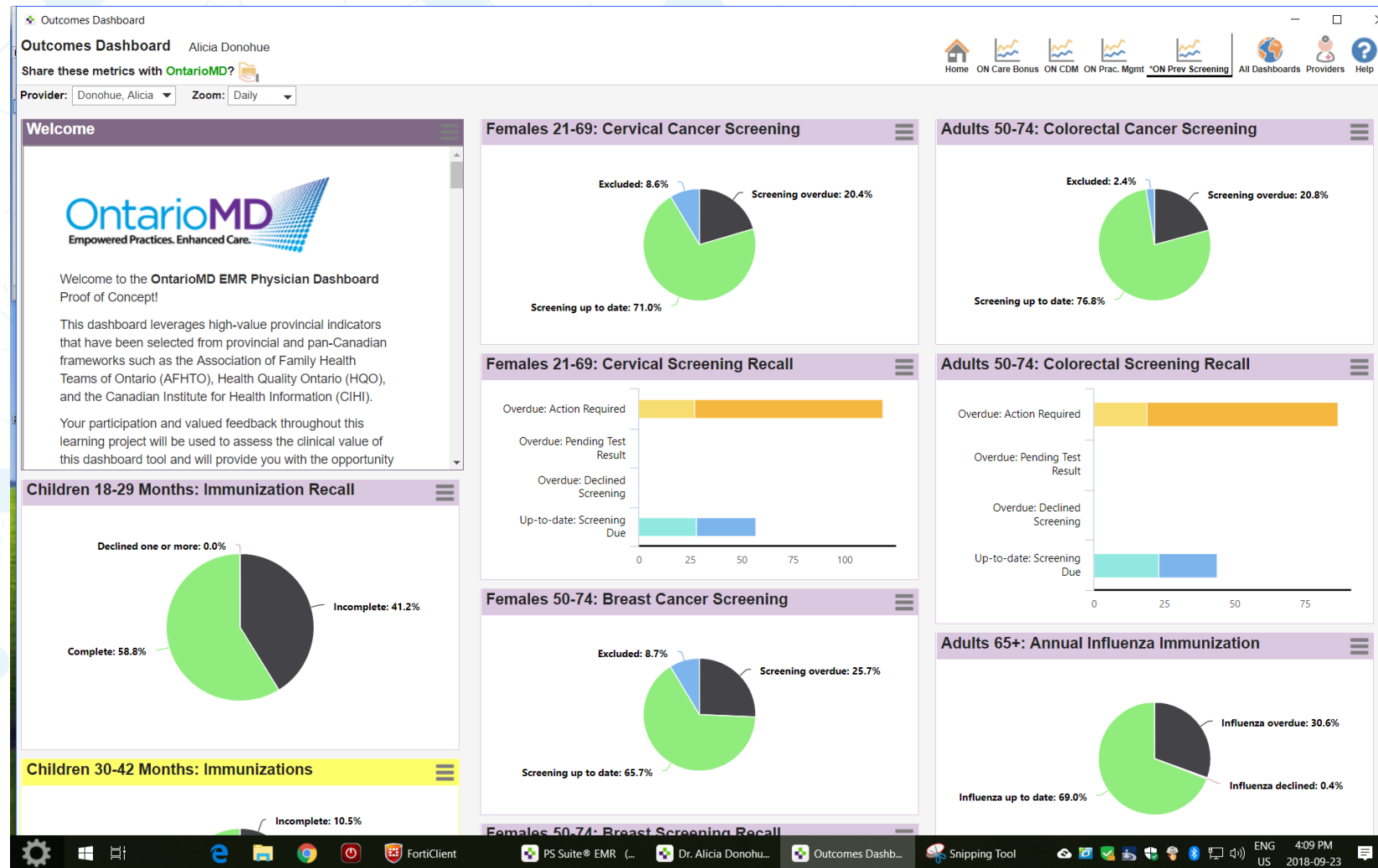




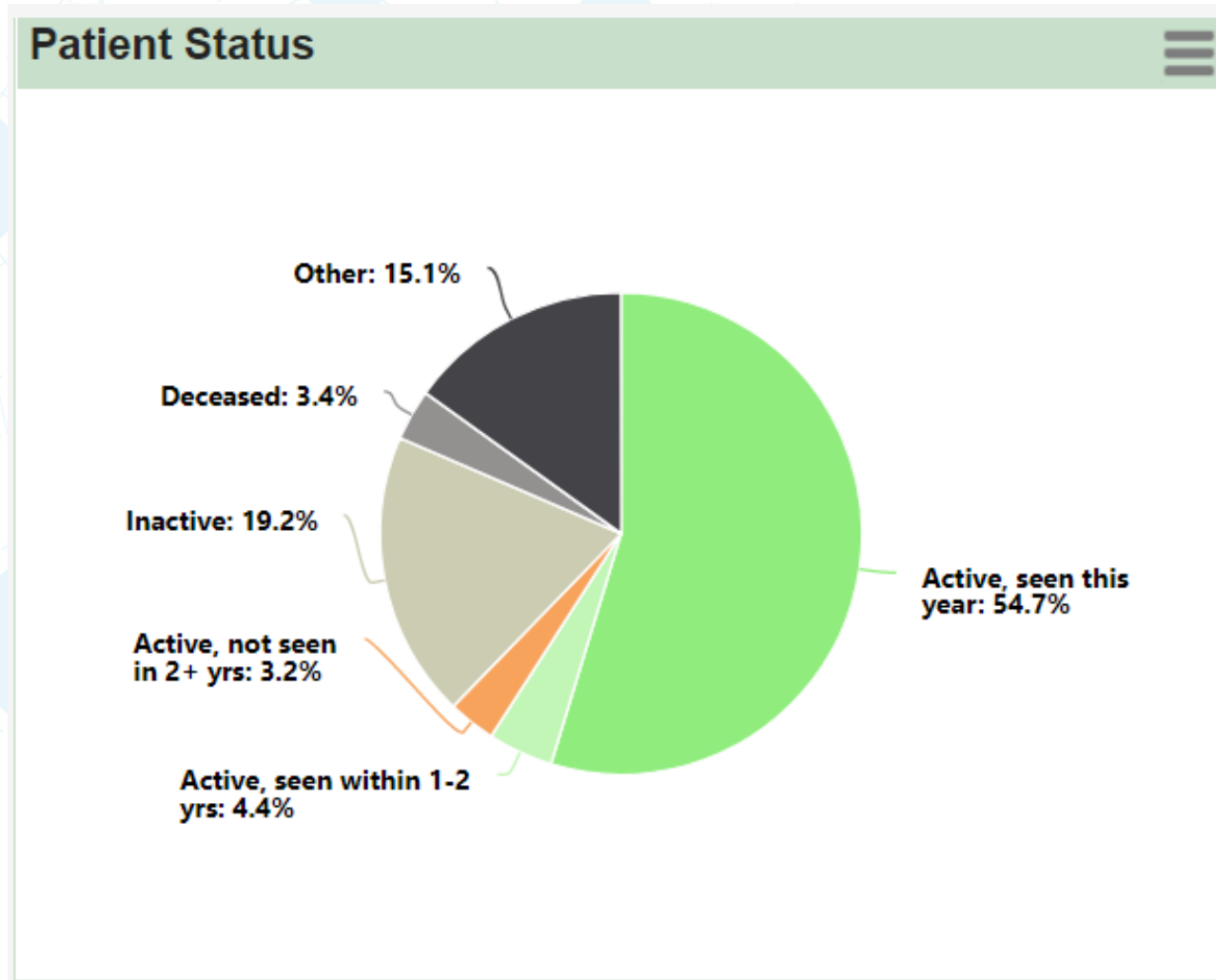
OntarioMD EMR Quality Dashboard-Preventive Care



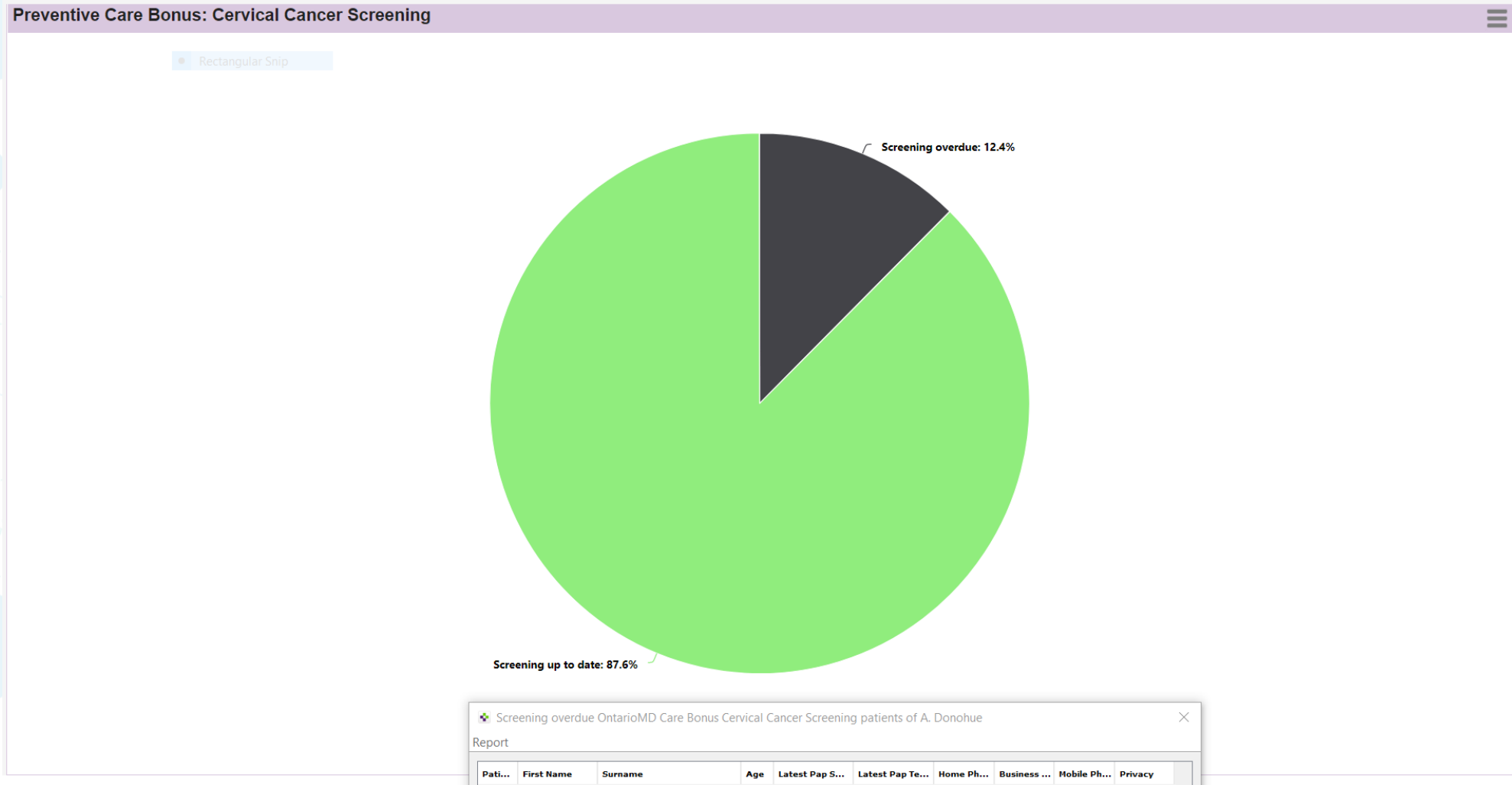
OntarioMD EMR Quality Dashboard-screening, immunizations



OntarioMD EMR Quality Dashboard-patient status

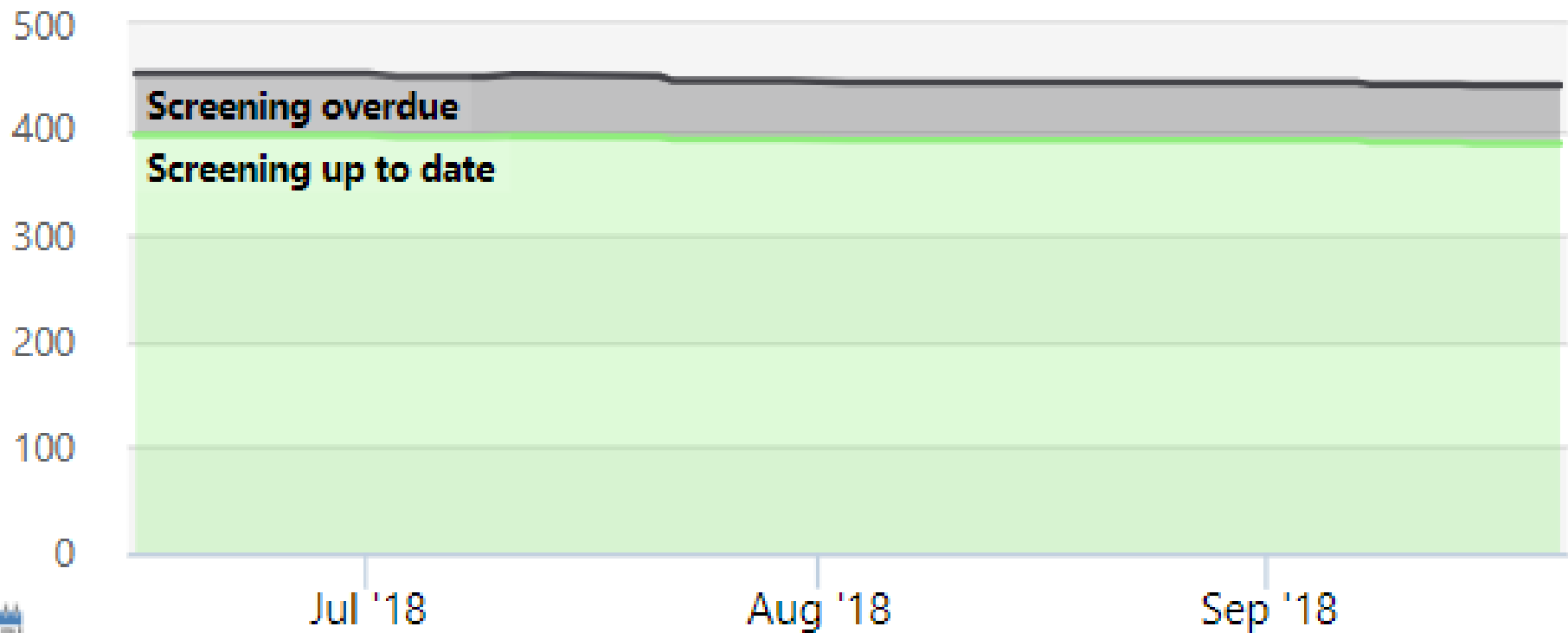


OntarioMD EMR Quality Dashboard-cervical screening

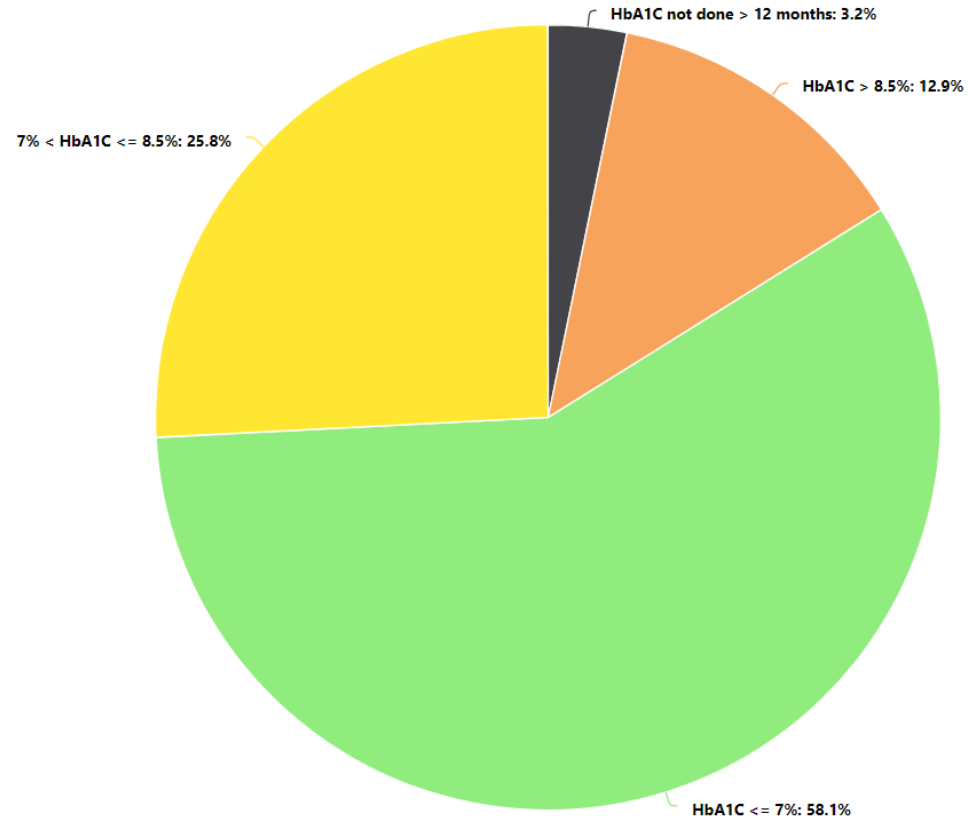


OntarioMD EMR Quality Dashboard-trend

Preventive Care Bonus: Cervical Cancer Screening



OntarioMD EMR Quality Dashboard-HbA1c

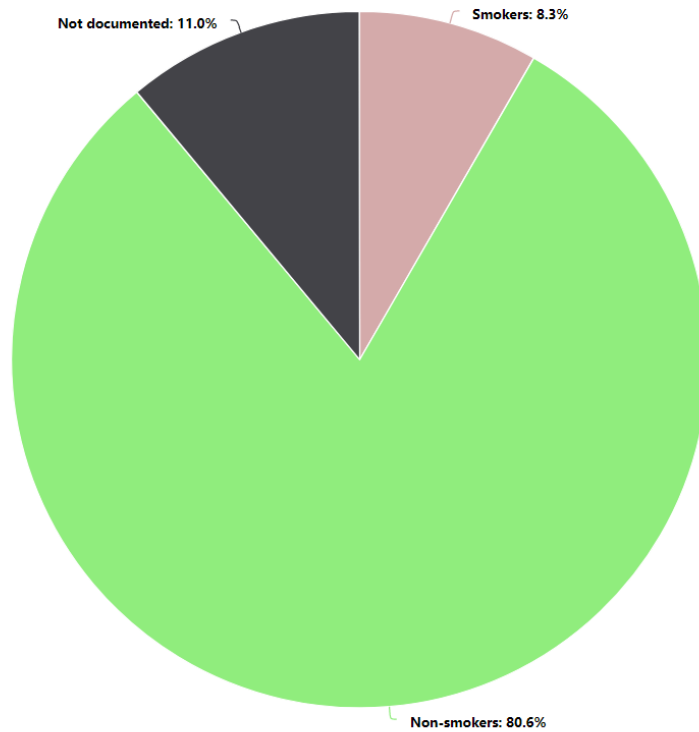


HbA1c not done > 12 months OntarioMD DM A1C in Range patients of A. Donohue

Report

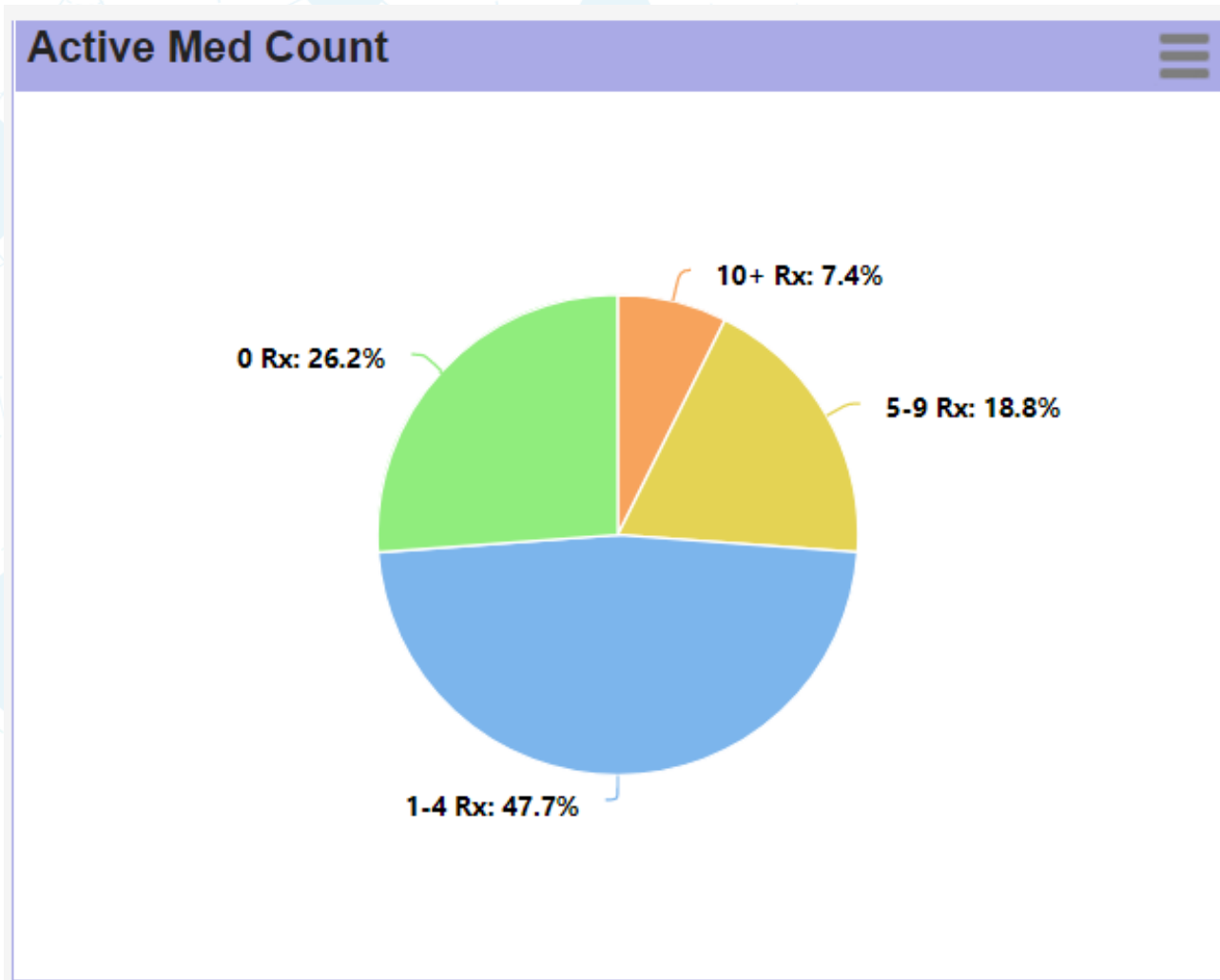
Pati...	First Name	Surname	Age	HbA1C Value	HbA1C Date	Last Seen	Next Appoint...	Home Ph...	Business ...	Mobile Ph...	Privacy
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OntarioMD EMR Quality Dashboard-smokers, non-smokers and ?



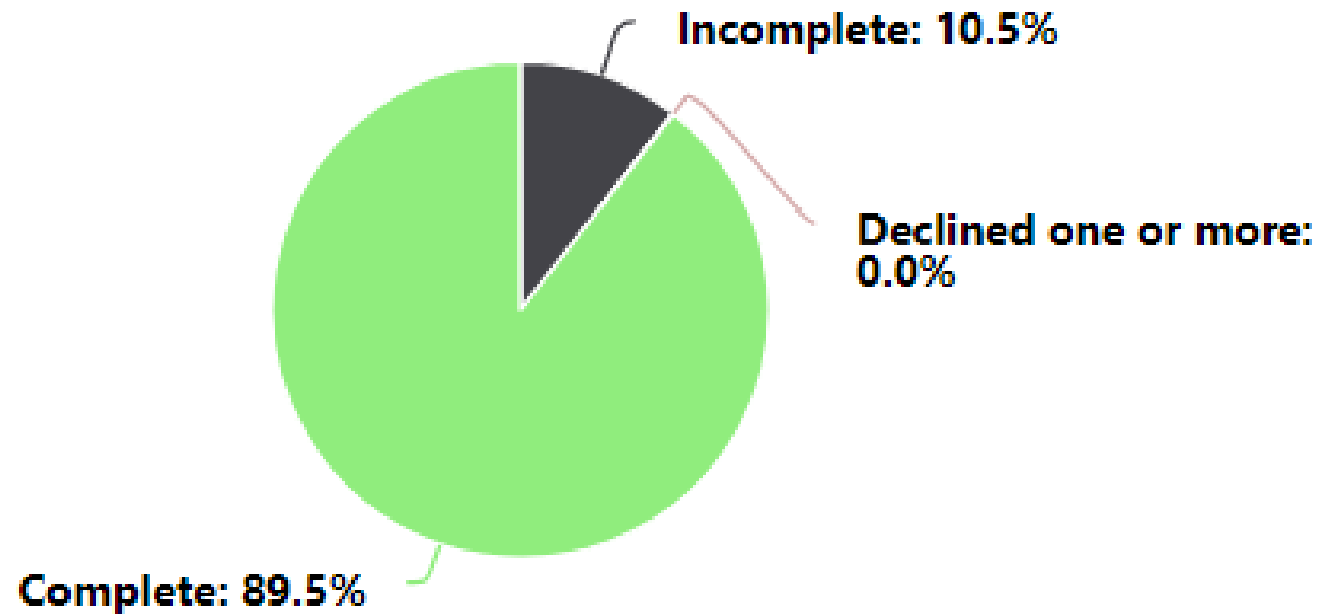
Smokers Home - Smoking status patients of A. Donohue							Not documented Home - Smoking status patients of A. Donohue						
Report							Report						
Pati...	Surname	First Name	Age	Home Ph...	Business ...	Mobile P...	Pati...	Surname	First Name	Age	Home Ph...	Business ...	Mobile

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

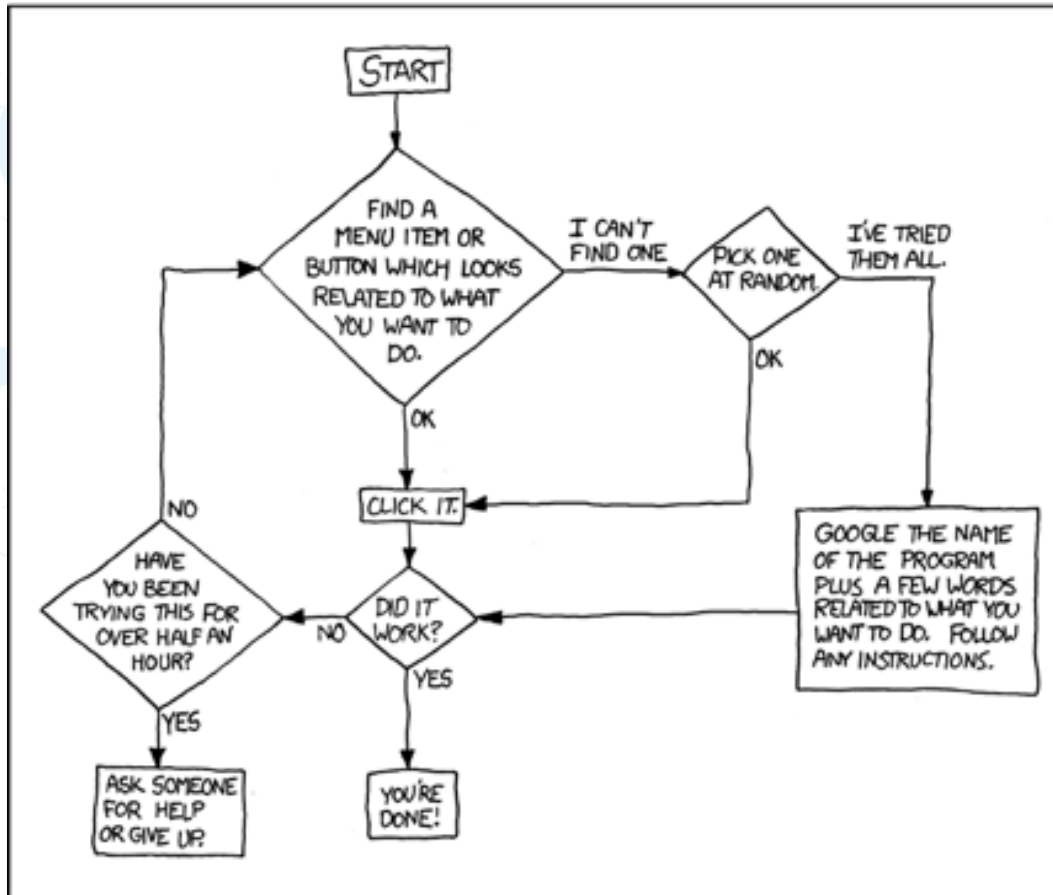
Appointments Edit Find View By Providers View Print

2019 Jun Action:

Time	Thu, Jun 13, 2019
6:45	x
7:00AM	xxxxxxxx do not book OMD EveryStep Conference, Kanata xxxxxxxx
7:15	
7:30	Dashboard
7:45	
8:00AM	
8:15	
8:30	
8:45	
9:00AM	
9:15	
9:30	
9:45	
10:00AM	
10:15	
10:30	
10:45	
11:00AM	

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:



Questions?

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

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

