Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

Health Data Coalition Presentation GPSC Summit

By Drs. Tracy Monk & Bruce Hobson

Date November 29, 2016

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

Faculty/Presenter Disclosure

Faculty: **Tracy Monk, MD**
Bruce Hobson, MD

Relationships with commercial interests: None

Grants/Research Support: n/a

Speakers Bureau/Honoraria: n/a

Consulting Fees: n/a

Other: Preparation time paid for by HDC

Managing Potential Bias

n/a

Learning Objectives

- To have input how HDC and partners can collaborate to support the use of the EMR data as a key component of the patient medical home.
- To understand what each organization is currently doing to support the physician's use of EMR data for practice improvement .

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

Today's Agenda

HDC Background – Where are we at now?

Our Value Proposition

What We Offer – What is Practice Improvement?

What is working well for you?

Who are we working with?

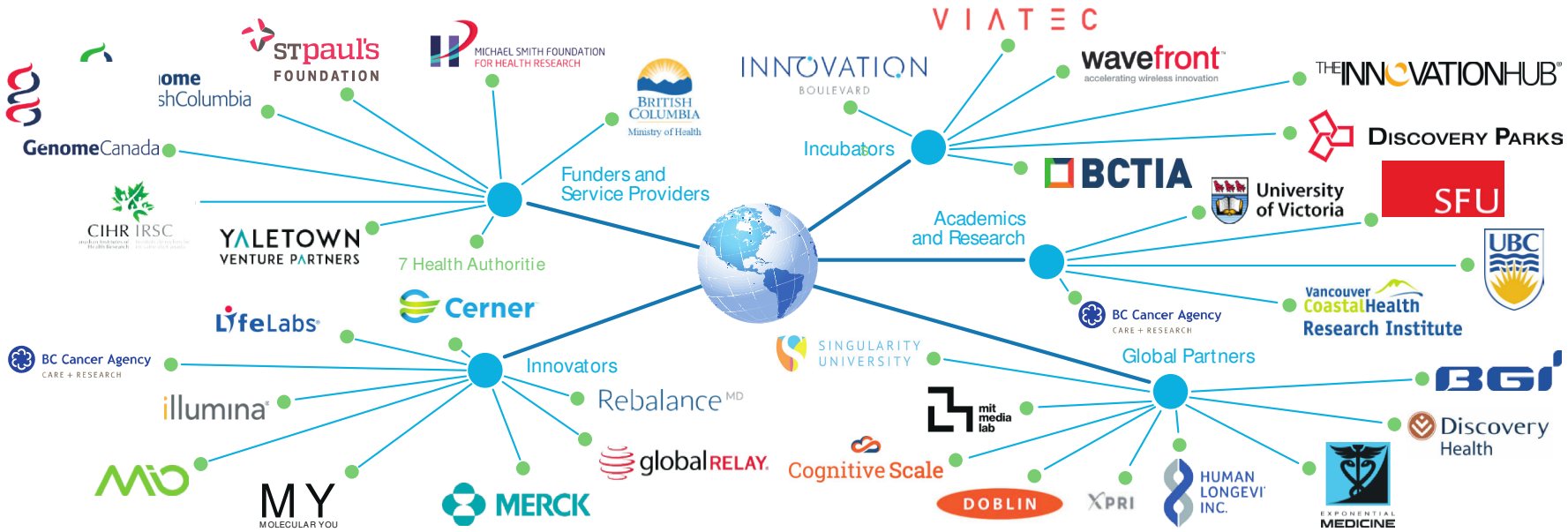
What would we like to see in the future?

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

The Universe We Live In

It's busy. It's complicated. It's interconnected. HDC among only is a few in this space approaching health innovation from **the primary care home as the source of truth** perspective.



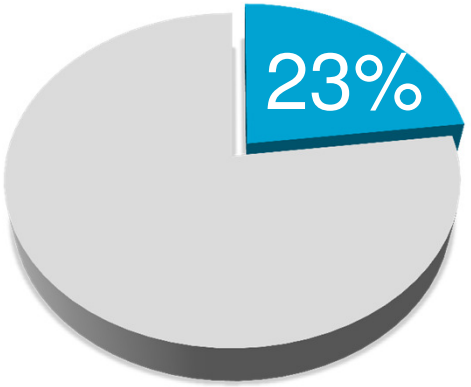
Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

The Challenge

Doctors are faced with many daily challenges:

- They are always busy,
- They are on a budget,
- They are under pressure to show value and measureable results,
- They have limited access to regional health statistics,
- They have no place to compare population data among other community offices.



Only 23% of Canadian physicians routinely receive and review data on clinical outcomes

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

Who is the Health Data Coalition?

The Health Data Coalition (HDC) is an independent, not-for-profit organization governed by physicians to work for physicians and your health care partners in BC.

The HDC is developing a secure, centrally hosted, web-based application to enable you to collaborate and use combined Electronic Medical Record (EMR) patient data from all over the province. This will enable doctors to foster a better understanding of their primary care practice and accelerate improvement in the quality of care for Canadians.

The HDC is:

Independent and Non-Profit

For Physicians by Physicians

Open Source and Collaborative

Respects Patient Privacy

Certified Best Practices in Security

FREE for Physicians

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

The HDC Solution

Statistical analysis allow doctors to deal with uncertainties in their practice. It allows doctors to make sound judgments based on data and not assumptions. Statistics help to better plan your practice, estimate costs, and predict the road ahead. They help to apply your services effectively for better patient outcomes.

Our technology is designed to aggregate patient level data from individual physician practices, across disparate electronic medical record (EMR) systems, to support self-reflective practice and facilitate system change using coaching support and small learning groups.

What do we do?

The HDC has developed an open source web application that combines anonymous data from EMRs through a network of member clinics.

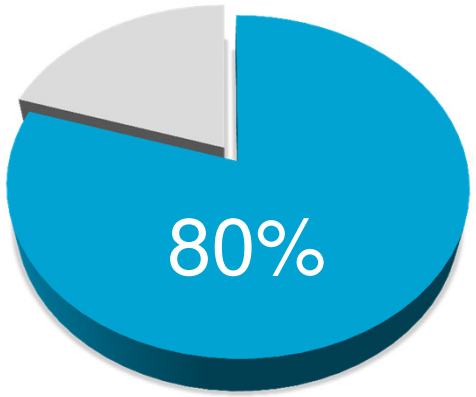
We allow our members to access this data through a secure, simple to use program that provides practical, clinical, relevant information while maintaining patient and provider confidentiality.

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

The HDC Goals

- To connect physician EMRs in real-time across the province
- Improve patient and population health outcomes
- Improve patient and provider satisfaction
- Give physicians the ability to use existing clinical data in a more meaningful way
- Query data to answer clinical questions
- Empower physician quality improvement through appropriate metrics
- Inform health systems managers through population health indices.



It is estimated that over **80%** of all healthcare information known on any individual patient is in the EMRs in community physician offices

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

Our Value Proposition

We are creating a culture of practice improvement, not just an environment. We are passionate about promoting the safe and voluntary use of information to support and influence practice improvement.

Data can be a powerful tool in identifying learning needs and tracking improvement in patient care over time. The HDC is supportive of a culture of data-informed learning.

Values:

Practical

Clinical

Relevant

Timely

Measureable for Success

What is working well/has worked well when it comes to practice improvement in your practice, organization, network and/or community?

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

Our Partner Network

In addition to the GPSC, the HDC has a number of partner organizations including BC Divisions of Family Practice, the Society of General Practitioners, Doctors of BC (Shared Care, PSP, Doctors Technology Office), UBC Continuing Professional Development and the Society of Specialists.

GPSC

Division of Family Practice
A GPSC initiative

PSP
Practice Support Program

doctors of bc

UNBC

SGP
Society of General Practitioners of BC
Ensuring a strong future for family practice and for our patients

THE COLLEGE OF FAMILY PHYSICIANS OF CANADA
LE COLLÈGE DES MÉDECINS DE FAMILLE DU CANADA

UBC

University of Victoria

SharedCare
Partners for Patients

Specialists of BC

BCAHSN
ACADEMIC HEALTH SCIENCE NETWORK

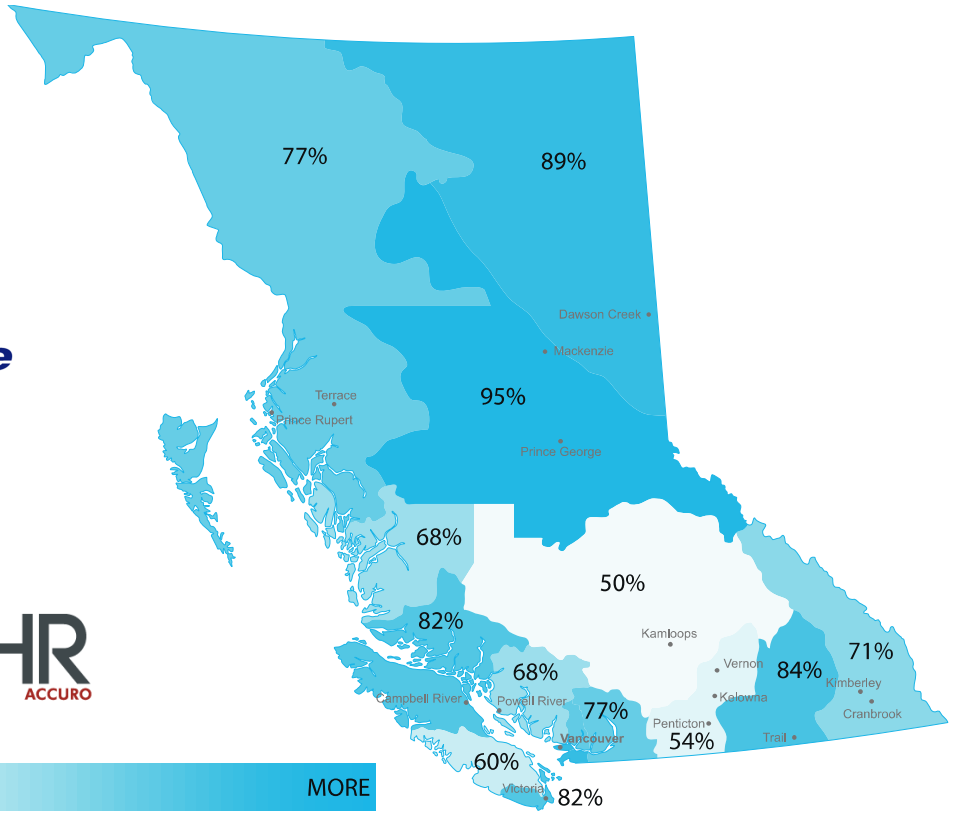
Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

Vendor Engagement

EMR vendor engagement continues to gain momentum with great provincial coverage.

iClinic™ · PLEXIA · profile · TELUS health solutions · OSLER SYSTEMS management inc. · MOIS · OSCAREMR · QHR ACCURO

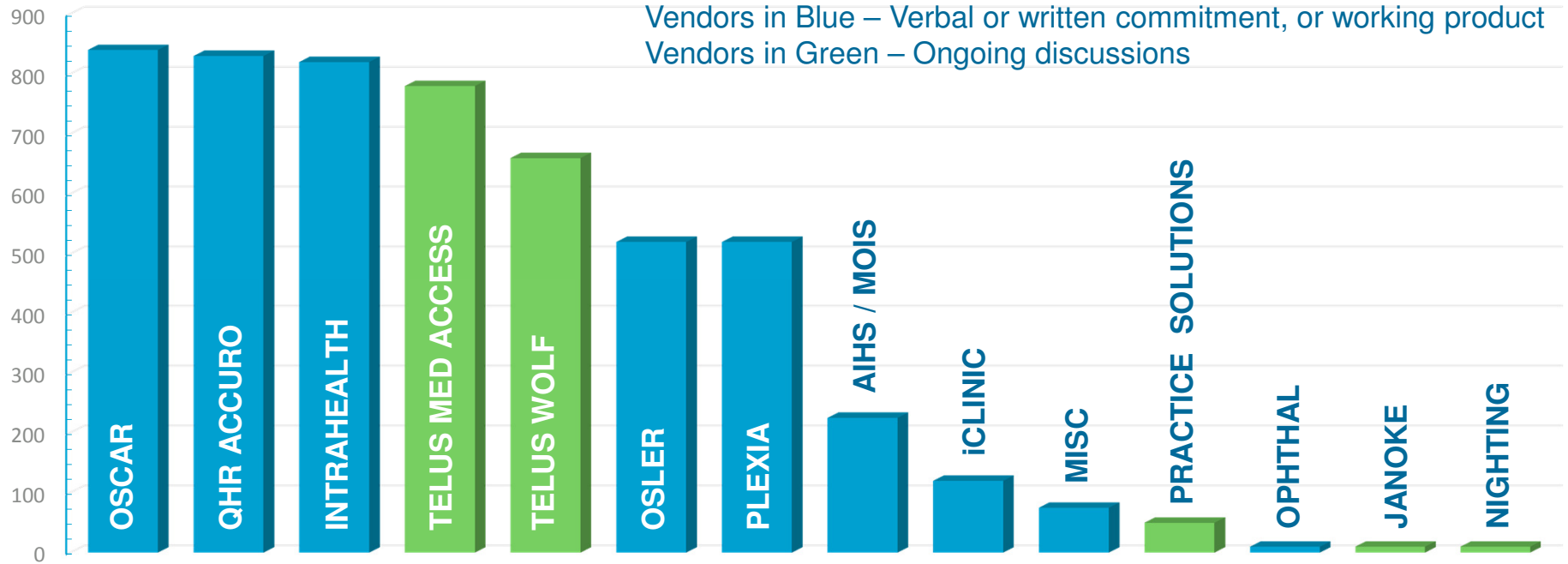


What would practice improvement using the HDC tool look like in the ideal world?

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

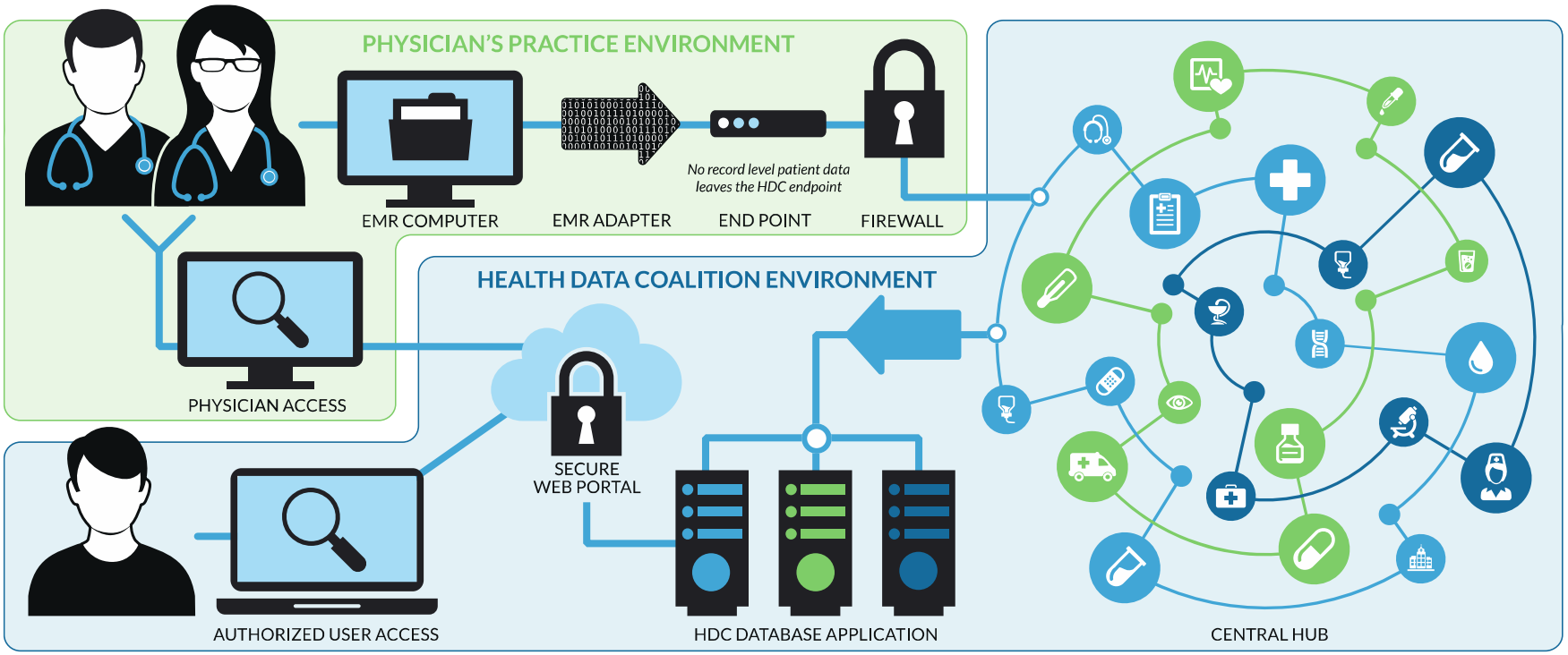
Vendor Distribution in BC



Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

HDC v1.0 Architecture



What bold steps would we take now to move forward to support the Patient Medical Home with the HDC tools and practice improvement process?

HDC and PMH

Practice level

Panel information: age, demographics, encounters etc.

Condition prevalence and . . . coming soon . . Panel comorbidity

Measurements of the key attributes of primary care:

- Relational continuity (coming soon)
- Comprehensiveness (coming soon)
- Access (coming soon)

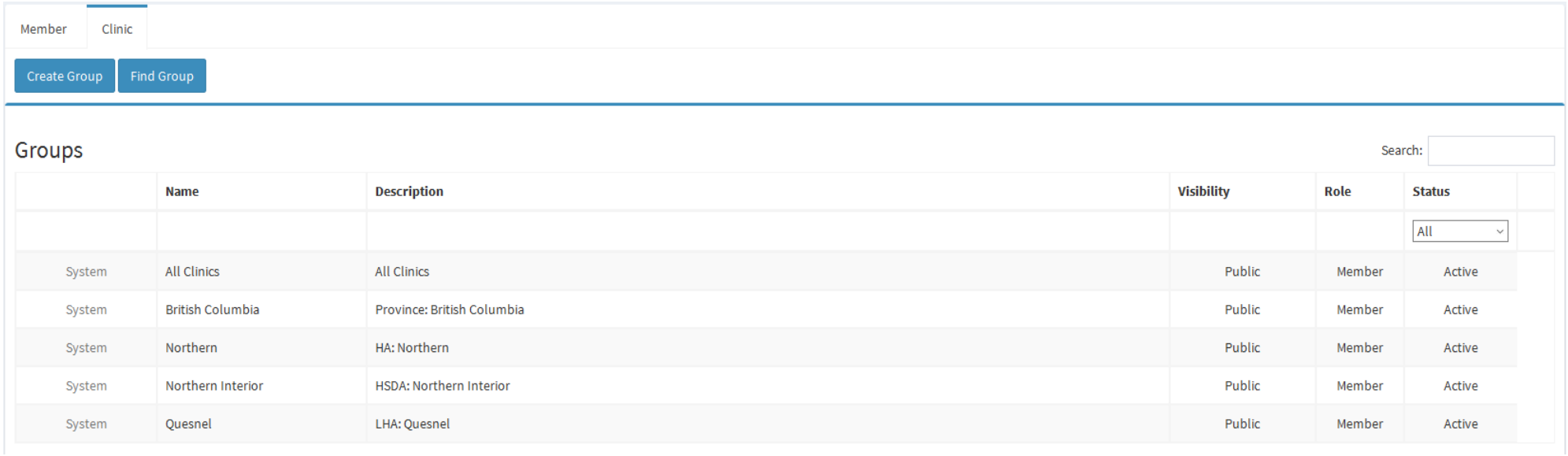
Divisional Level

Aggregate data from across local division to inform and evaluate divisional initiatives

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

Groups Panel



Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

FAQ's

When will the HDC Toolset be ready?

Our first official launch of HDC 1.0 is SCHEDULED in October for Oscar, Osler and MOIS EMR users. Intrahealth PROFILE users will likely come on line in late 2016 and early 2017.

What's it going to cost me?

There is **no cost** at this point as start up and Beta costs are covered by GPSC.

Can this data be used by regulatory authorities, or MSP to monitor my practice and compliance with regulations?

NO. This data is under the control of the physician led HDC. Although partners may later request access to province wide aggregated data for planning purposes, this is at the discretion of the HDC. This data will never be used to monitor individual physician or practice performance. The HDC was created by physicians and physician led to ensure that we control our own data.

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

FAQ's

I may be contributing to the *greater good* but what's the benefit to me, my patients and my practice?

Suppose you wanted to ask a question, for example how many patients are on opiates and benzodiazepines in my practice (very topical now) or how many COPD patients have an action plan, are smokers etc.? You can ask these sorts of questions using the HDC system.

Who can participate?

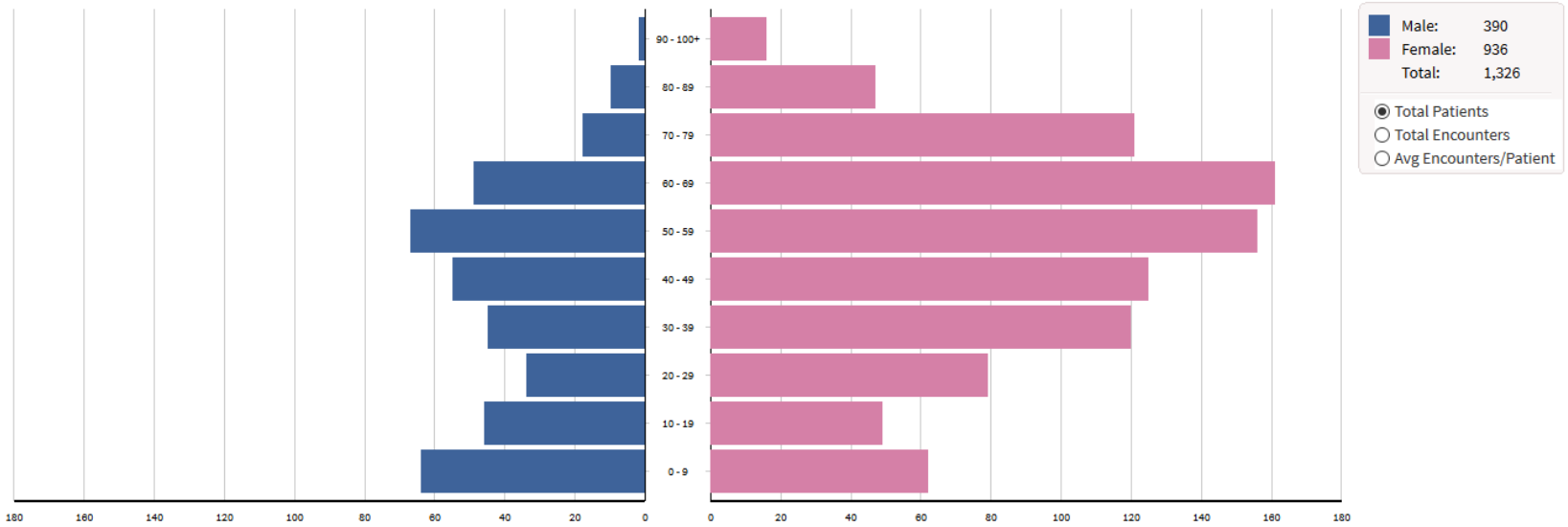
Membership is open to all physicians in BC. To help divisions and their local physicians, as well as other sponsored support programs for physician share clinical data while maintaining confidentiality, the HDC is developing a distributed data network in collaboration with EMR vendors to enable connectivity to all EMR products being used across the province.

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

Reporting Examples – Population Pyramid

Total Patients

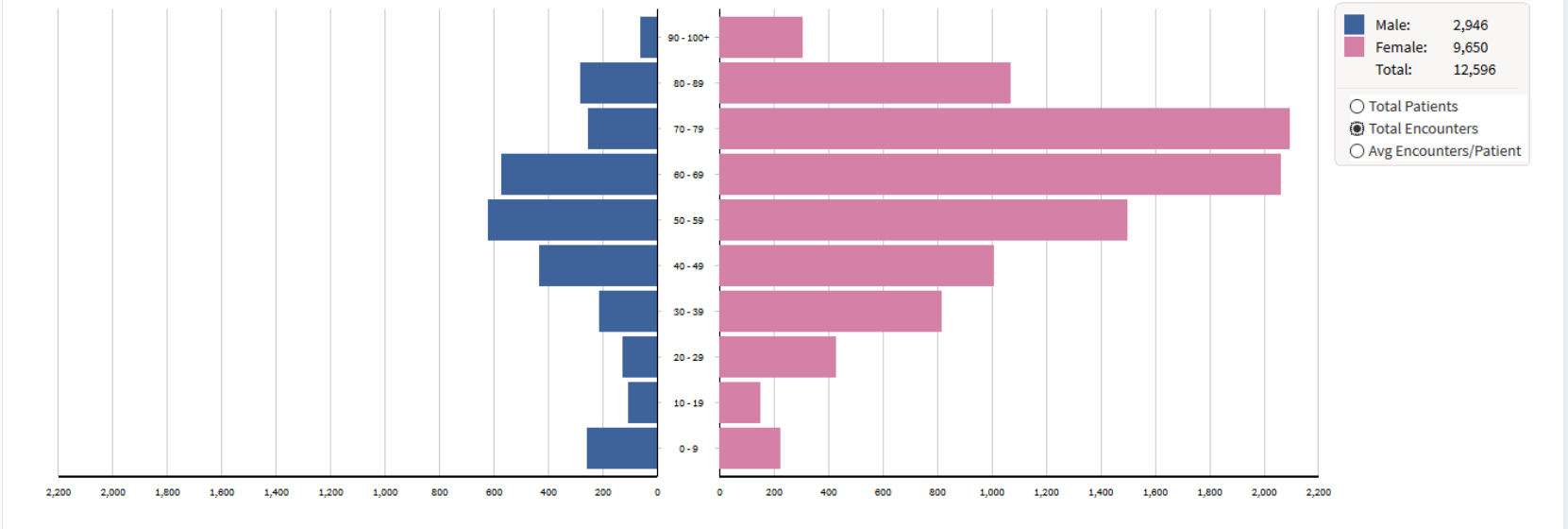


Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

Reporting Examples – Population Pyramid

Encounters

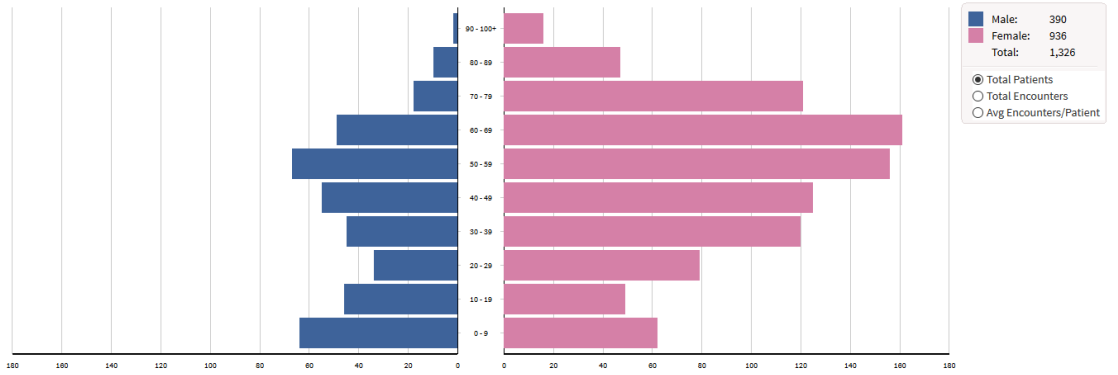


Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

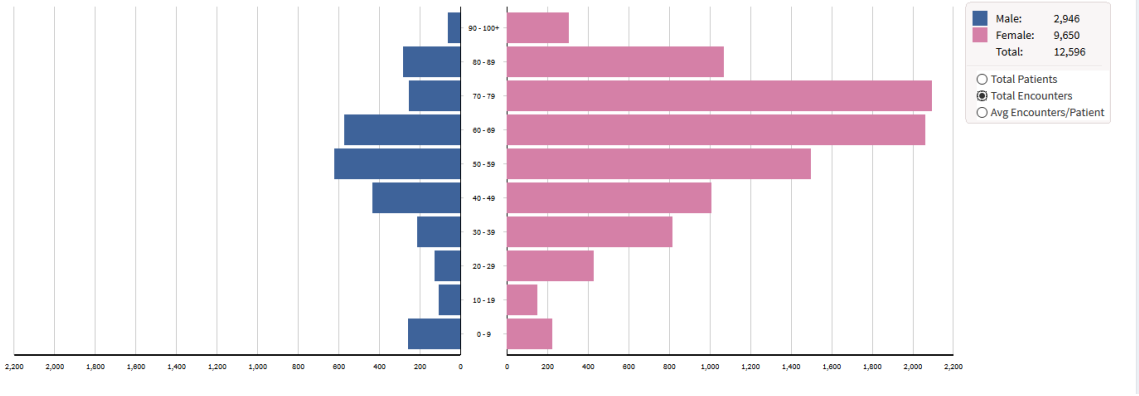
Check out the interesting difference between:

The doctor's patient panel



And

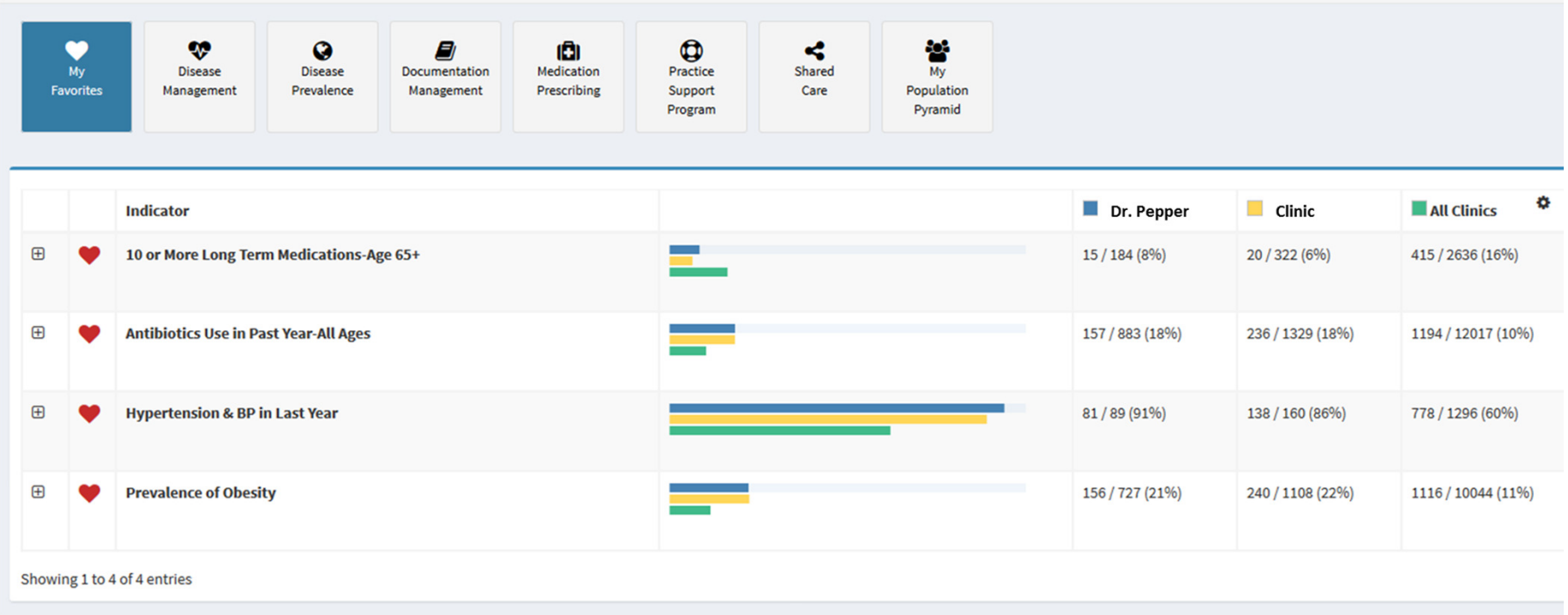
How often the patients are actually seen.



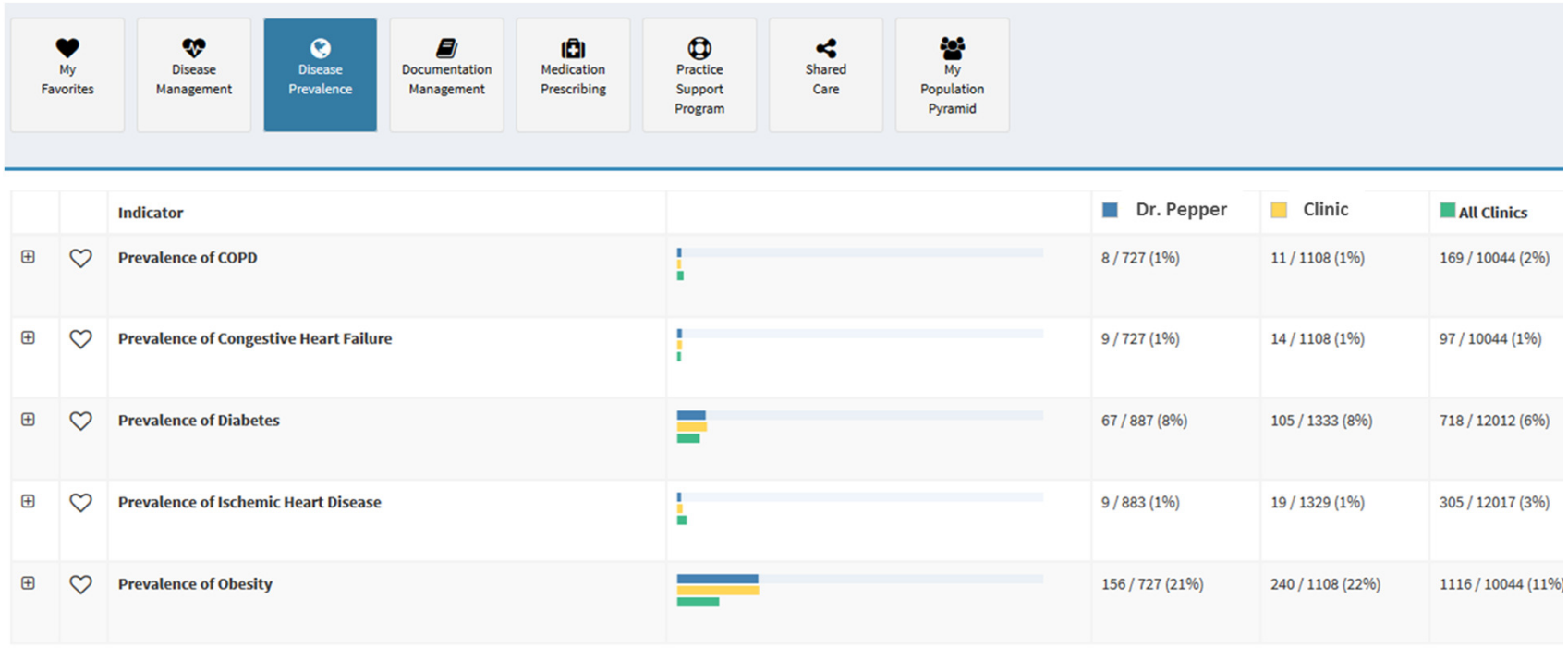
Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

QI Panel – My Favourites



QI Panel – Disease Prevalence



		Indicator		Dr. Pepper	Clinic	All Clinics
⊞	♡	Prevalence of COPD		8 / 727 (1%)	11 / 1108 (1%)	169 / 10044 (2%)
⊞	♡	Prevalence of Congestive Heart Failure		9 / 727 (1%)	14 / 1108 (1%)	97 / 10044 (1%)
⊞	♡	Prevalence of Diabetes		67 / 887 (8%)	105 / 1333 (8%)	718 / 12012 (6%)
⊞	♡	Prevalence of Ischemic Heart Disease		9 / 883 (1%)	19 / 1329 (1%)	305 / 12017 (3%)
⊞	♡	Prevalence of Obesity		156 / 727 (21%)	240 / 1108 (22%)	1116 / 10044 (11%)

QI Panel – Medication Prescribing

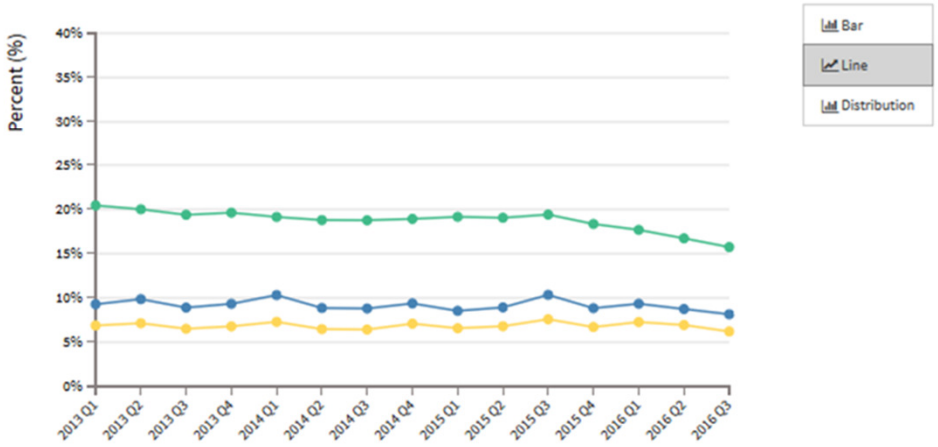
Antibiotics Use in Past Year-All Ages	157 / 883 (18%)	236 / 1329 (18%)	1194 / 12017 (10%)
Antidepressant Use-All Ages	110 / 883 (12%)	153 / 1329 (12%)	785 / 12017 (7%)
Antipsychotic Use-All Ages	11 / 883 (1%)	16 / 1329 (1%)	115 / 12017 (1%)
Opioid Use-Age 65+	0 / 184 (0%)	0 / 322 (0%)	0 / 2636 (0%)
Proton Pump Inhibitor (PPI) Use-Age 65+	37 / 184 (20%)	49 / 322 (15%)	295 / 2636 (11%)

Reporting Examples – Bar / Line Charts

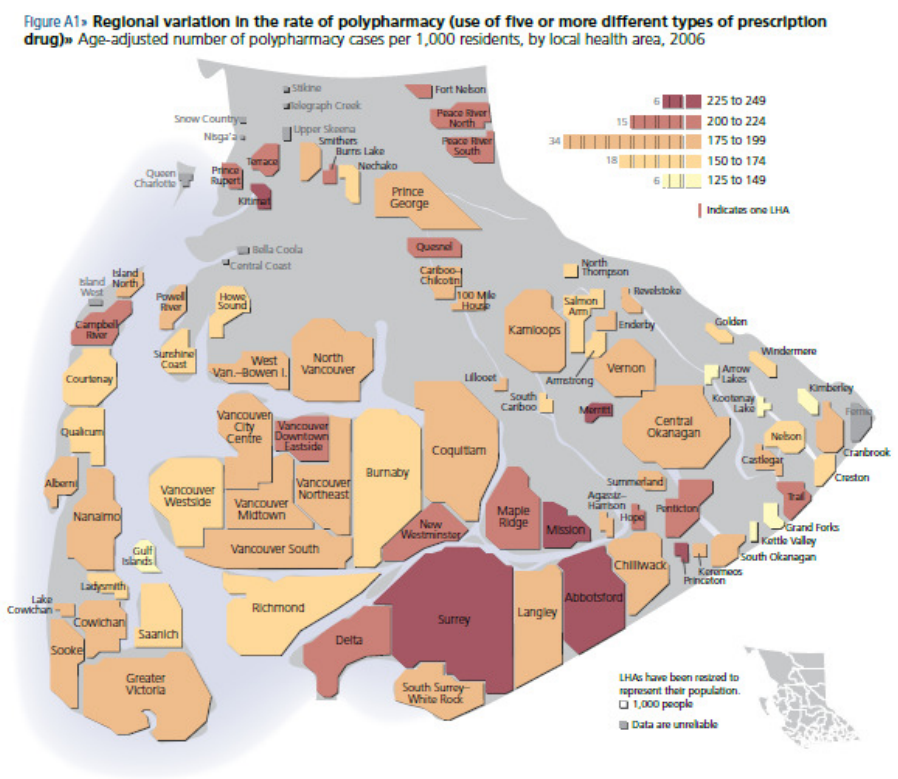
		Indicator		Dr. Pepper	Clinic	All Clinics
⊟	♡	10 or More Long Term Medications-Age 65+		15 / 184 (8%)	20 / 322 (6%)	415 / 2636 (16%)

This measure shows the percentage of active patients, 65 years and older, with 10 or more active medications.

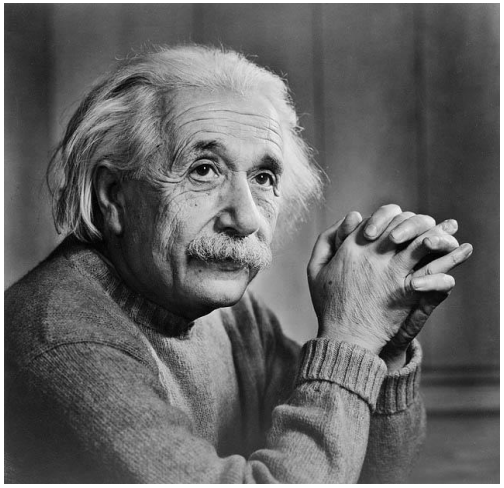
Legend	Data Source	Ratio	Data as of
	Dr. Pepper	15 / 184 (8%)	2016 Q3
	MK	20 / 322 (6%)	2016 Q3
	All Clinics	415 / 2636 (16%)	2016 Q3



Plans for Future: Heat Maps of Variation



HDC: Igniting the spark of curiosity
for peer led reflection and quality improvement



I have no special talents. I am only passionately curious.

- Albert Einstein

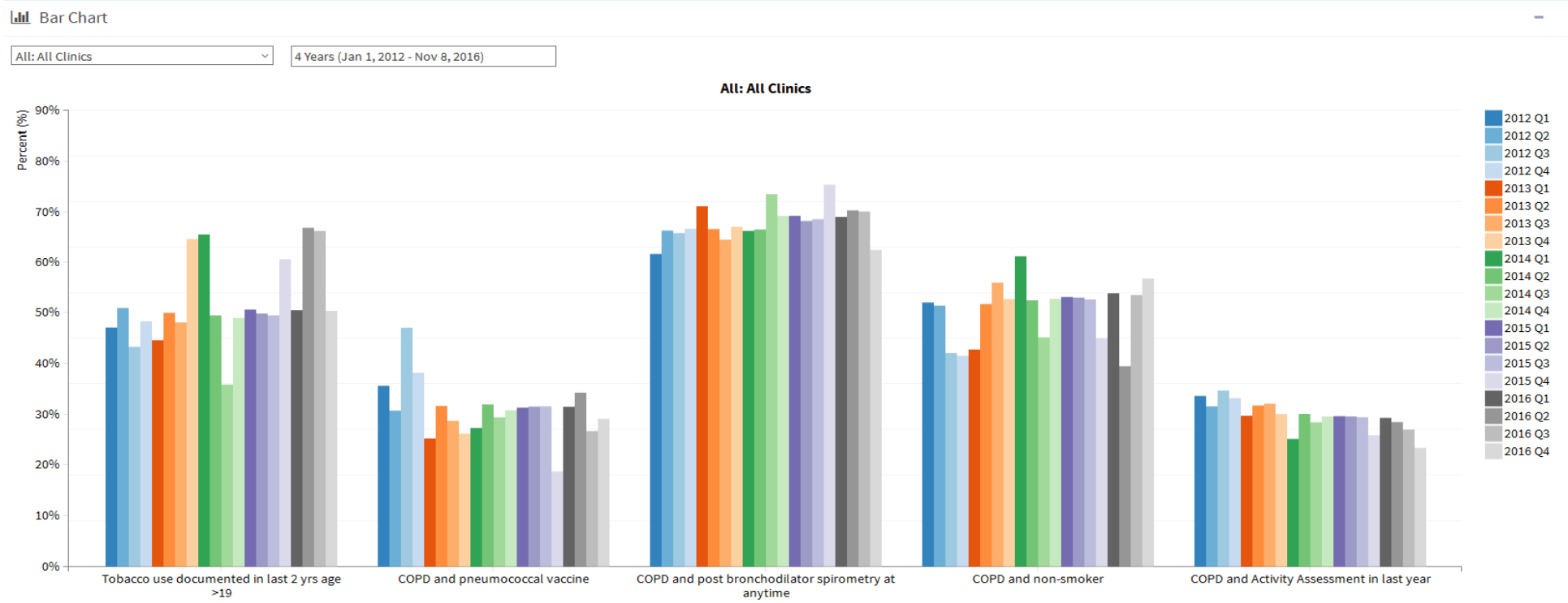
Questions

Extra Slides

Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

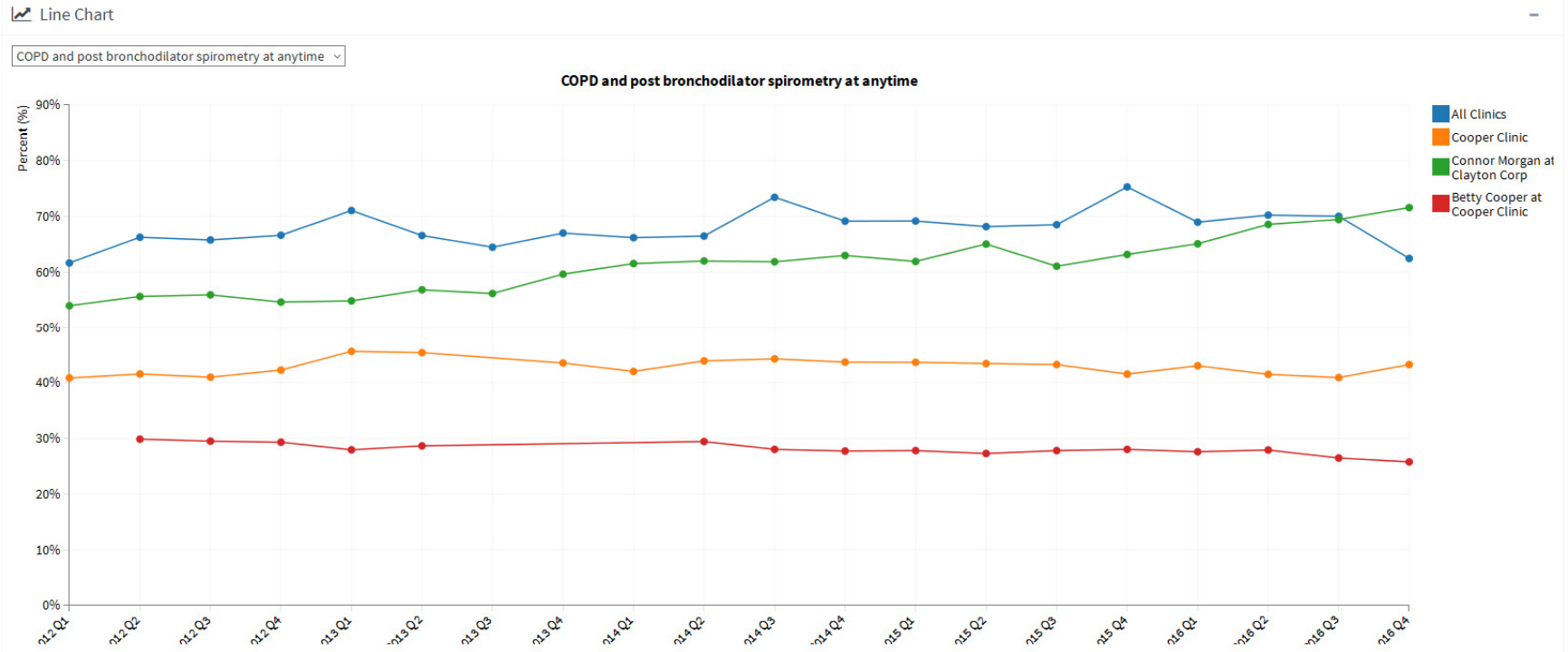
Reporting Examples – Bar / Line Charts



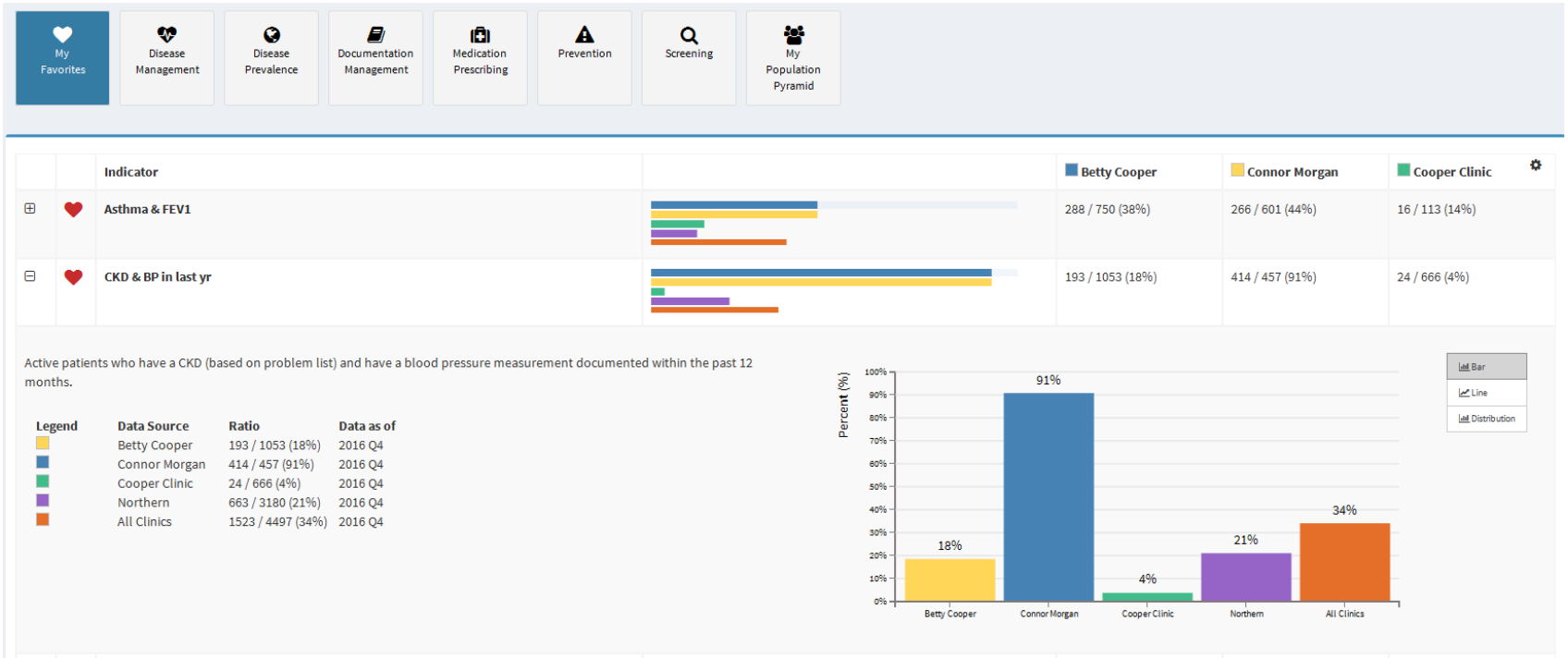
Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

Reporting Examples – Bar / Line Charts



Health Data Coalition

Better Information. Better Care. Better Patient Outcomes.

QI Panel – My Favourites