# The New Health Economy and the Shift Toward the Consumer: Impact on health information

May 26, 2015

**IHE Innovation Forum XIII:** 

Better Info – Better Health: Accessing Health and Health-Related Data in Alberta

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# Five forces shaping the health information landscape in the New Health Economy

1 Demographics
Aging society
Frequent Flyers



New Entrants

Nontraditional players disrupt and innovate in healthcare L Care Anywhere

Accessible healthcare through mobile, retail, and virtual care

**5** Wellness

More focus on prevention and health

**2** Consumer empowerment

Greater responsibility for my data and care

Demand for value



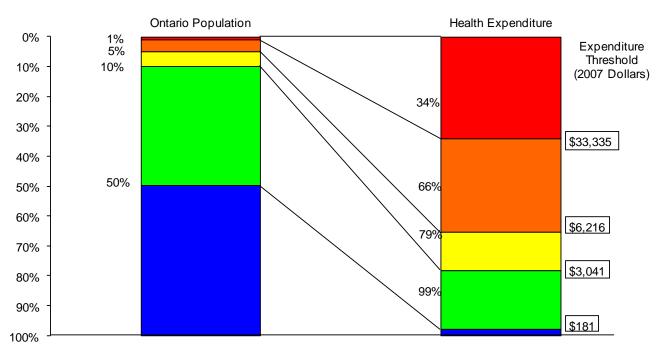


## Different Information Needs for Complex Patients

The notion of 1% and 5% "frequent flyers" is now central in policy discussions

Figure 1. Health Care Cost Concentration:

Distribution of health expenditure for the Ontario population, by magnitude of expenditure, 2007



.... The clear implication is that information needs are also skewed. On size fits all information systems are only a starting point

Source: ICES



# Consumers are demanding more value, convenience, and personal experiences...



**82%** are open to new, non-traditional ways of getting medical attention

**74%** are open to virtual doctor visit

55% trust the Internet more than the doctor

**43%** want to shop for healthcare

Source: PwC Health Research Institute, April 2014, "Healthcare's New Entrants: Who will be the industry's Amazon.com?", PwC's Customer Experience Survey, Cisco Connected Customer Experience Report



"These days it seems everyone will see you now, except the doctor :-)" @EricTopol on Twitter

**Democratising medicine** 



The crowd will see you now The computer will see you now

Your Smartphone Will See You Now





Dr. Google Will See You Now



The Avatar Will See You Now

September 2013 Slide 5



# ...and they want healthcare to mirror other parts of their lives

#### **Past**



Limited teller hours



Limited travel agency availability

1980<sup>s</sup> - 2010

#### **Present**

24/7 ATMs and mobile banking

Online booking



Standardized marketing and inventory

Customized and datadriven

#### **Present**



Limited hours and standardized treatment plans

**Ongoing shift** 

#### **Future**

Personalization of treatments and protocols

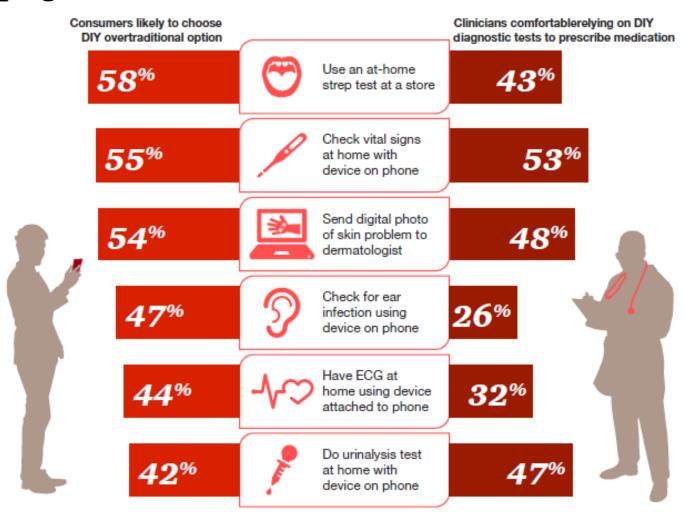
Personalized medicines



Blockbuster drug model



# Clinicians and consumers appear to be on the same page with DIY solutions



Source: PwC Health Research Institute, Nov 2014, "Healthcare delivery of the future: How digital technologies can bridge the gap of time and distance between clinicians and consumer"

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## The Sharing Economy in Healthcare: PatientsLikeMe

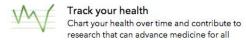


patientslikeme® Already a member? Sign in.





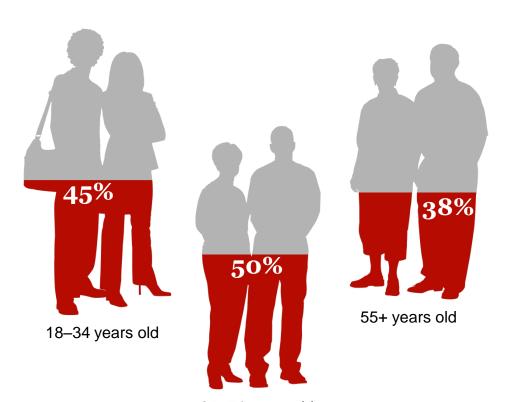




PatientsLikeMe provides a way for patients to share real-world health experiences in order to help themselves, other patients, and organizations that focus on relevant conditions.



# It's not just tech-savvy millennials who want something new



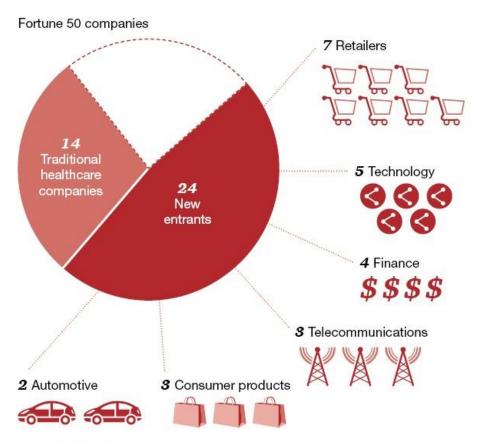
Middle-aged consumers, caring for their kids, themselves and perhaps their parents, are most open to new, affordable, convenient digital, DIY, home-oriented options.

... and it isn't clear that they are going to share their health records with our "health system" (whether we think they should or not)

Source: PwC Health Research Institute, April 2014, "Healthcare's New Entrants: Who will be the industry's Amazon.com?" Copyright PwC 2015



# Nearly half of Fortune 50 companies are healthcare new entrants



"Our goal is to be the **number one healthcare provider** in the US,"

- Retail company

"Our goal is to become a **global** leader in healthcare,"

- Consumer Electronics company

"We can **own the wellness** space,"

- Grocery company

Source: Fortune 50, 2013



## Global New Entrants Video:

https://www.youtube.com/watch?v=Id9jALEj-O4



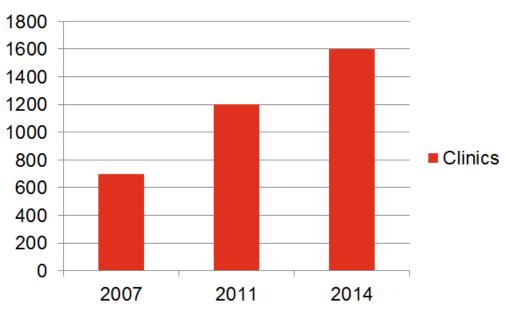
# New entrants are leveraging innovation to create new models to deliver health





# In America, Retail-based clinics hit the consumer sweet spots – convenient and affordable

#### Growth of US retail-based clinics





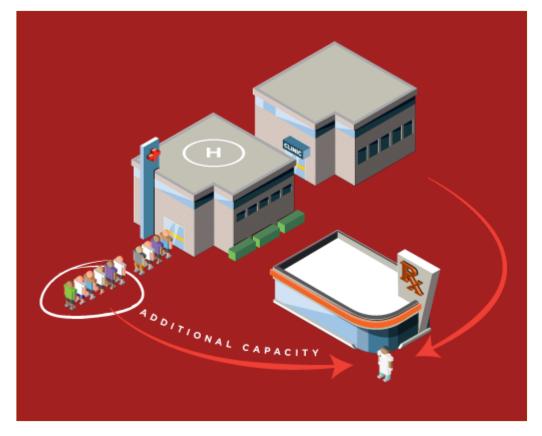
Source: Convenient Care Association

# In Canada primary care is moving into (retail) pharmacies

9,000 points of care / Broader Pharmacy's Plan for Improving Access to Affordable Healthcare

Aims at reducing care wait times by **shifting 17 million physician visits to pharmacists** 

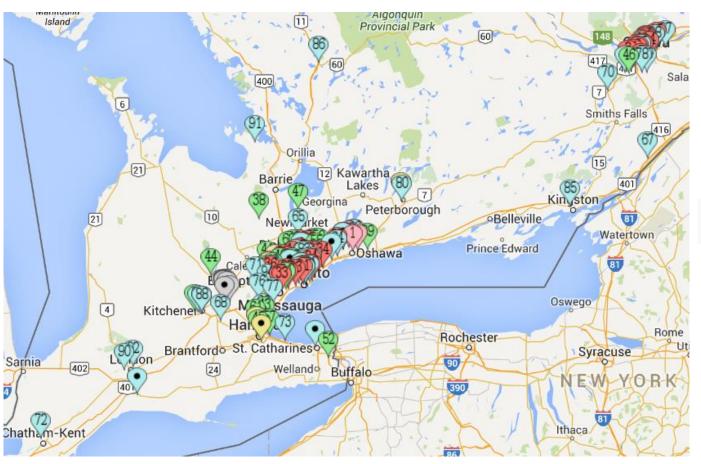
The broader pharmacy community will be able to deliver a *wider array of primary and chronic care services* 





## Large Primary Care Groups are emerging...

Pressures on GPs, alongside system reforms, have led to the rise of Primary Care groups

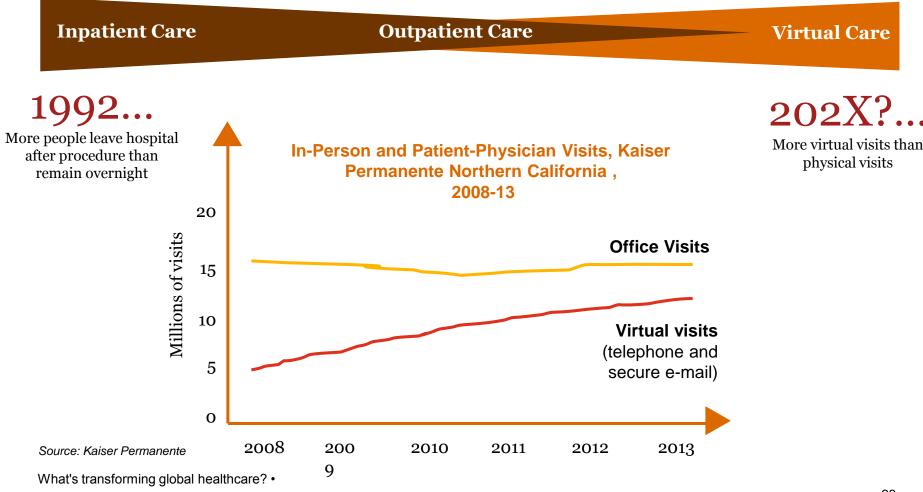


- Appletree Medical Group 220 Primary Care Providers
- Oshawa Clinic 127 Primary Care Providers
- Jack Nathan Health 52 Canadian Clinics
- Primacy Clinic 140 Canadian Clinics
- Guelph Family Health Team
   137 Primary Care
  Providers
- Wise Elephant Family
  Health Team 25 Primary
  Care Providers
- McMaster Family Health Team-31,000 patients
- The Peterborough Clinic 127 Primary Care Providers
- Women's College Hospital Family Practice Health Centre – 50 Primary Care Providers

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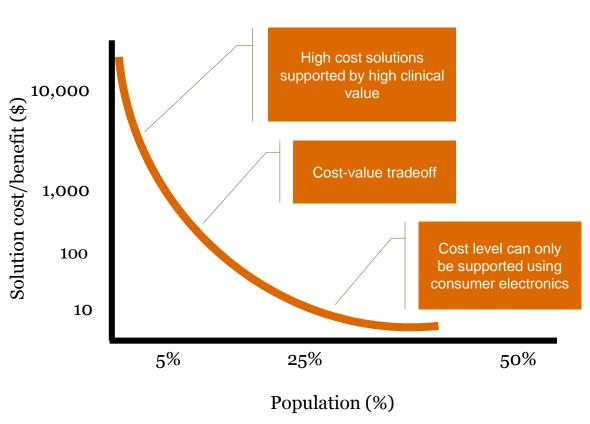
Virtual Health Care: Advanced systems such as Kaiser and Denmark are already well advanced. We have been through similar shifts before...



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# Virtual Care is a disruptive innovation. Scaling using consumer electronics drops costs...



of patients report that they would definitely, or are likely to, use email services with their doctor of patients report that they would definitely, or are likely to, use online prescription refill services

What's transforming global healthcare? •

Copyright PwC 2015 Source: Making Care Mobile (PwC Canada Report) - 2013



## The rise of DIY healthcare



Technology companies are building intuitive mobile medical devices and apps

**Consumers** are **taking charge** of more of their own care.



MDs *already prescribe* nutrition and weight loss *mobile health apps* 

How will we incorporate these data into our health system?



# Healthcare is decentralizing from institutions back to consumers as a result...

These tools can be used to effectively upskill providers, enable virtual consultations, or even empower effective self-care

**Traditional** 

#### Health Care Setting

Virtual





#### Physician Extender / Retail

The delivery of **convenient**, **in-person care** in a traditional retail clinic setting



#### Virtual Consultations

The use of videoconferencing and telepresence capabilities to provide common consultations



## Do-it-yourself healthcare

The use of connected health devices and remote patient monitoring devices to diagnose common conditions and monitor chronic diseases

#### **Enhance**

Enhance existing retail clinic offerings and experience

### **Expand**

Expand telehealth pilot capabilities

#### **Innovate**

Deliver customers innovative DIY health offerings

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## Before the war, 40% of medical visits were in the home





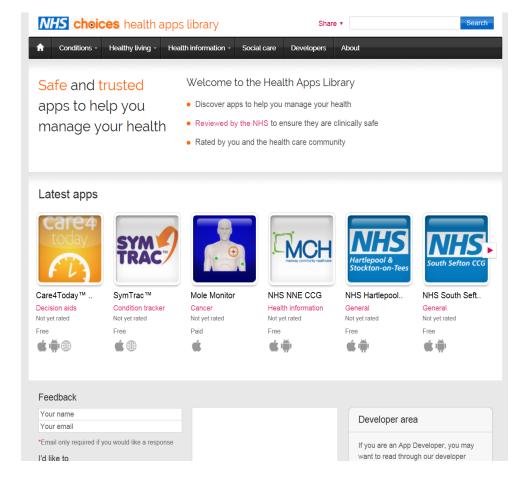
Pager, which was developed by Uber co-founder Oscar Salazar, markets itself as allowing patients to "skip the frustration of the waiting room and see a doctor in your home, office or hotel in less than two hours"



## Case Study: Global emergence of apps formulary



# Apps Formulary AliveCor Cardiac Withings Blood Pressure bant Diabetes Pain Squad Pain Mgmt MyIBD Crohn's Disease



An #AppsFormulary process and standards for selection and

regulation of apps will be required...

#### Criteria for evaluation include:

- Operability
- Privacy & Security
- User Data Safeguards
- Functional Validation
- Clinical Efficacy

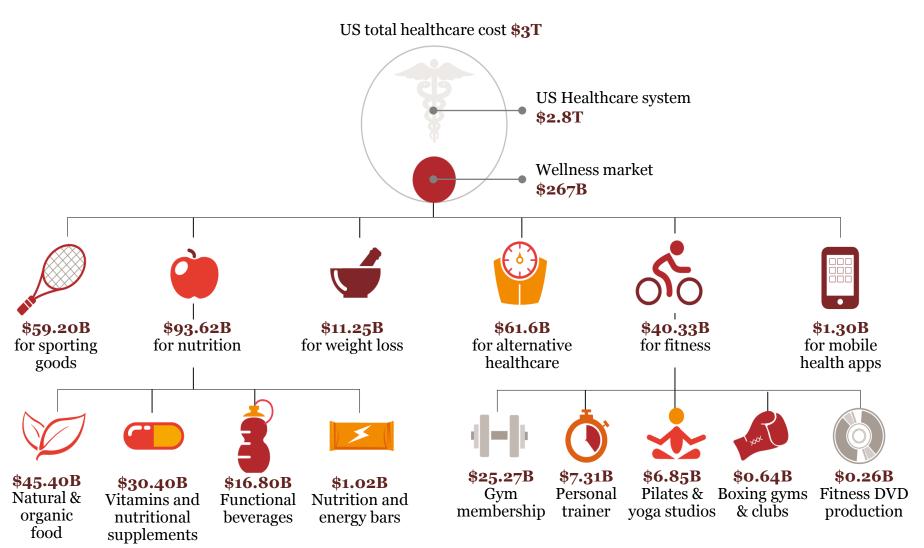


Front of Store

http://www.pwc.com/ca/en/healthcare/virtual-health-making-care-mobile-canada.jhtm



## American's spent \$267B on wellness in 2012



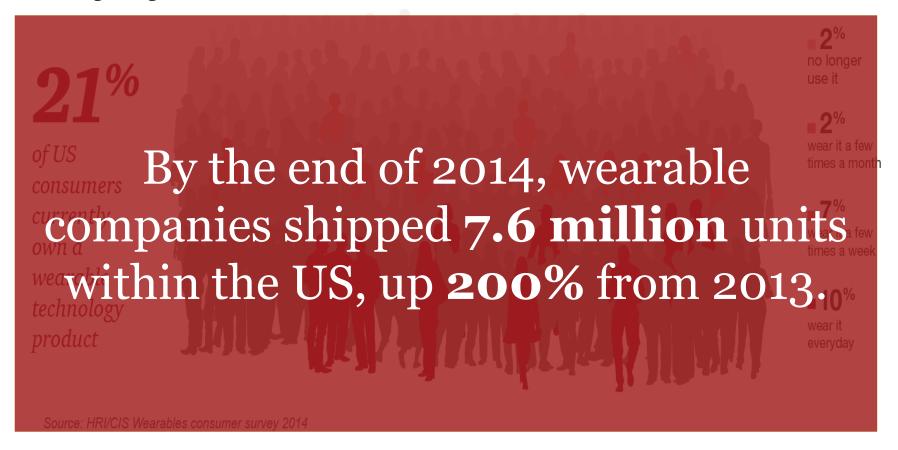
Source: PwC Health Research Institute, April 2014, "Healthcare's New Entrants: Who will be the industry's Amazon.com?" Copyright PwC 2015

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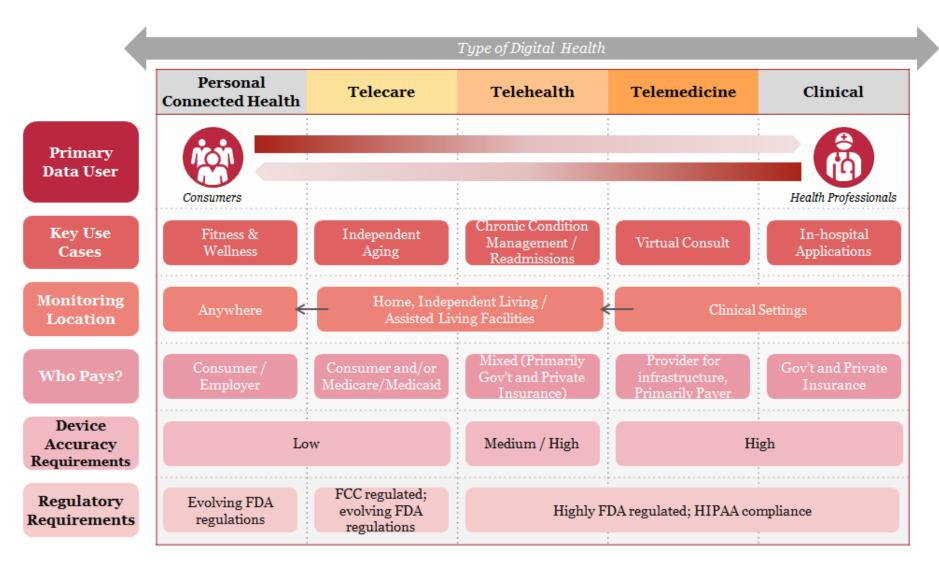
### We asked consumers:

Do you own a wearable device and do you wear it everyday?





## The spectrum of digital health continues to evolve



## Thank you

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