



THE 62nd ANNUAL CANADIAN REINSURANCE CONFERENCE

The Disability Claims Management (R)evolution from Art to Science

Relmagine insurance



THE 62nd ANNUAL CANADIAN REINSURANCE CONFERENCE





What we will cover

- Meet the panel
- Setting the scene
- An insurer's perspective on transformation
- Innovative acceleration of case management
- Pharmacogenomics and mental health claims
- Questions, comments

Mark Foerster

Vice President, Group Operations & Claims

Relmagine insurance



THE 62nd ANNUAL CANADIAN REINSURANCE CONFERENCE

Basics of Long-Term Disability



Replace income benefits if disabled beyond sick leave or short-term disability



Two year "own occupation"

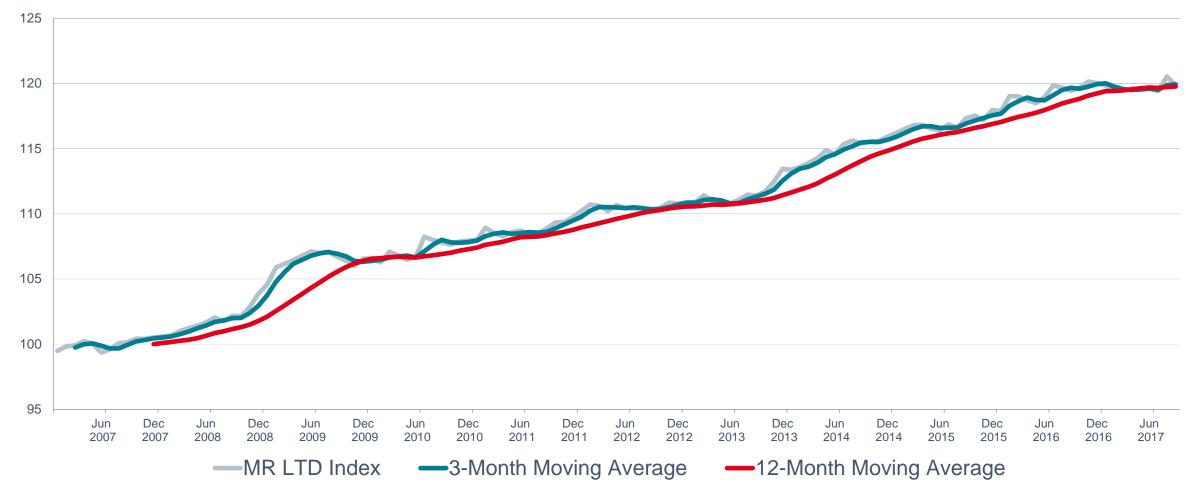
10 million

Canadians are covered



Beyond two years "any occupation"

Munich Re LTD Benchmark Index







Wellness - Sponsors

Plan Sponsors focus for benefit plans ideally*

- Prevent Disease 36%
- Support chronic disease management 31%

*Sanofi 2016 Survey At A Glance

Financial well-being assistance?

Needed to reduce employee stress, but...members reluctant for their employers to be too involved.+

+ Willis Towers Watson Staying @Work 2015-16 Survey





Claims Management (R)Evolution

 Individual instincts

Past

Future

Artificial Intelligence

- Data Driven
- Internet of ThingsBlock Chain



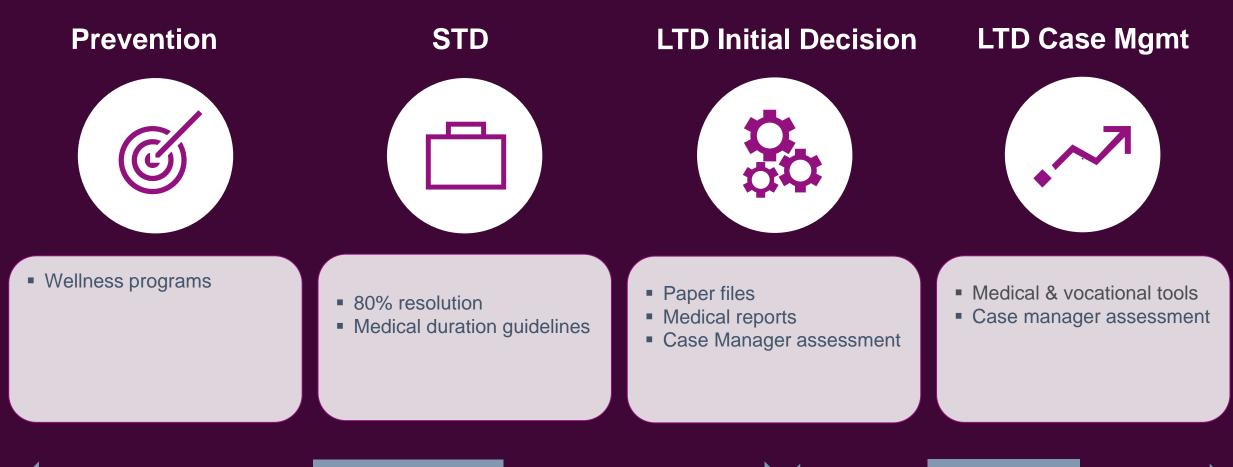
What claims problem do we want to find solutions for?

How do we case manage claims more efficiently/effectively and improve the claimant's experience?



Use numerous sources of data, analytics, technology and partners to optimally case manage claims, maximize profit and enhance satisfaction.

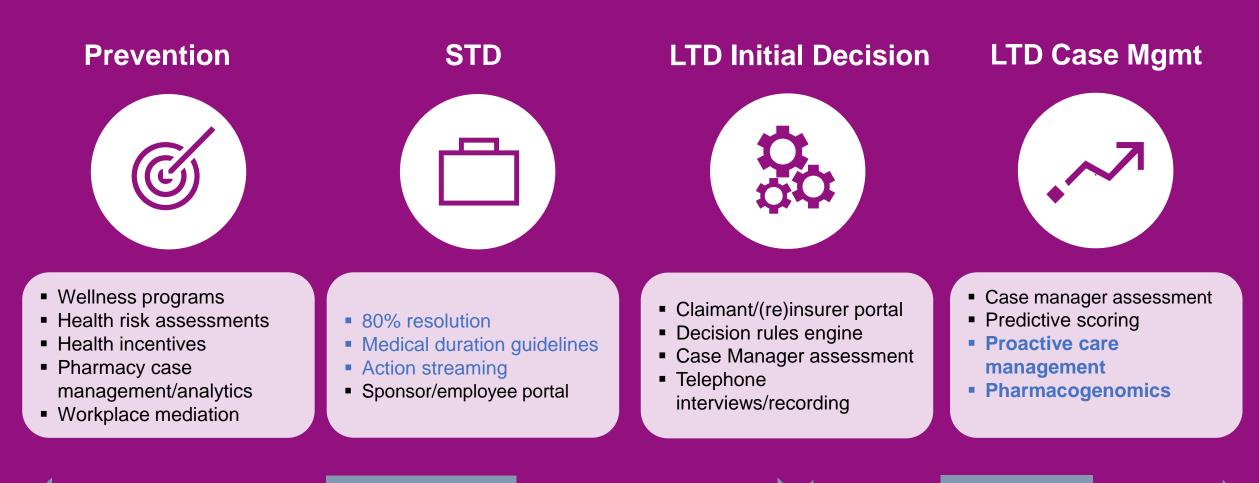
Disability Claims Management Blueprint: Historical



Incidence

Duration

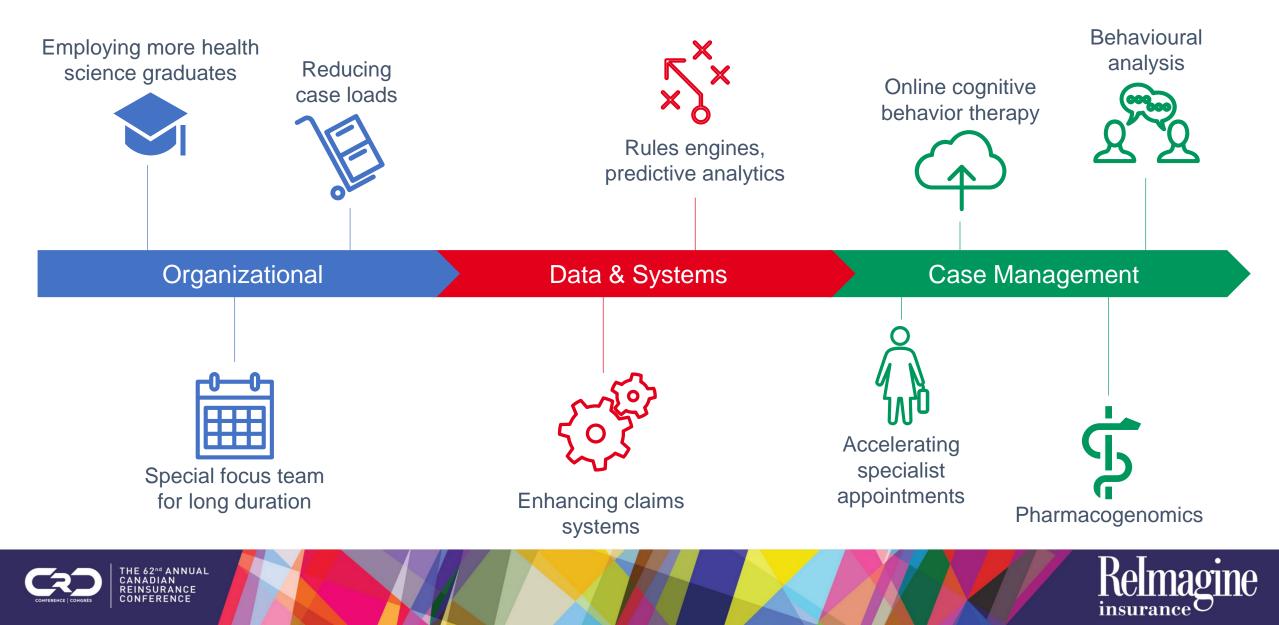
Disability Claims Management Blueprint: Current & Emerging



Duration

Incidence

Current Initiatives



Ken Bowman

Head of Claims- RBC Insurance

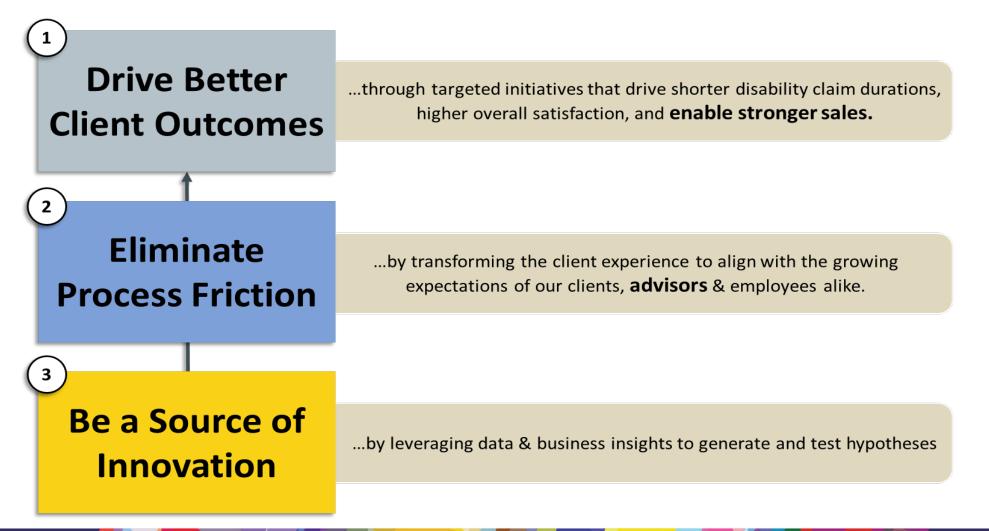
Relmagine insurance



THE 62nd ANNUAL CANADIAN REINSURANCE CONFERENCE

The Future of Claims at RBC Insurance

Our objective is to drive profitable growth through the delivery of a truly differentiated client experience







The Drive For Change and our Journey

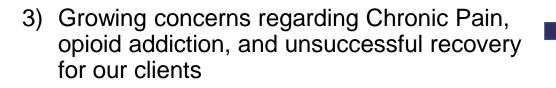
<u>Problem Statement</u>. We recognized that clients were not recovering as quickly for certain conditions despite focusing on enhancing internal resource skillsets and implementing best in class practices and defined pathways for complex claims. The biggest challenge for our clients and claim professionals was outside our organization and the challenge our clients had navigating the healthcare system.

Challenges

1) Increasing Frequency and Duration of Mental Nervous claims



2) Increased Wait Times for Clients to see Specialists and receive treatment/ surgical intervention



Solutions

Creation of ONWARD by Best Doctors that delivers a first of its kind coordination of care model to clients suffering from Anxiety and Depression

Partnership with Medical Confidence to provide client with quicker access to specialist and treatment while providing value added navigation assistance and advice

Partnership with ManagingLife to test the use of digital health care application for pain related claims





Manage My Pain: A better way for claimants, healthcare professionals, and DCSs to measure and monitor pain, function, and medication

<u>Claimants</u>

Healthcare Professionals / DCSs







Claimant apps

Clinical reports

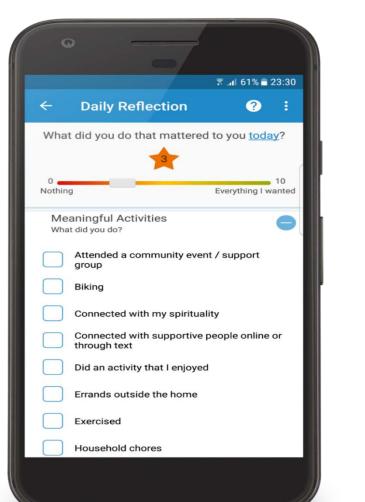
Monitoring portal

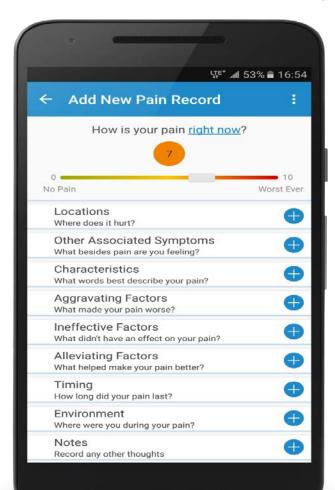




The App: Function and Pain Outcomes

Claimants will take 60 seconds a day to record how they are feeling









Steven Solomon

Vice President, Client Relationships

Relmagine insurance



THE 62nd ANNUAL CANADIAN REINSURANCE CONFERENCE

Best Doctors Evolution

- Past 20 years...focused on **Physical Health** providing the right information, the right diagnosis and treatment at the right time
- Case Management expanded into Mental Health and Cancer
 support









Onward by Best Doctors[™]



The Programs Goal

"To improve defined care and return-to-work outcomes for individuals on short and long term disability with a diagnosis tied to anxiety or depression"







The Challenges

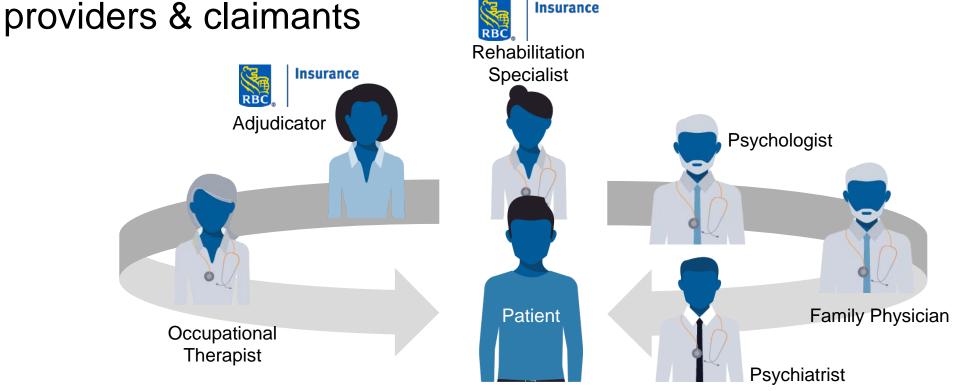
- 1. Delayed/no access to expert diagnosis and care
- **2. Misdiagnosis** and inadequate treatment pathways for complicated mental health conditions
- 3. Lack of patient advocacy
- **4. Lack of coordinated communication** between healthcare providers, claimants and their insurance carrier
- **5. General Practitioners diagnosing** and treating complex mental health conditions





Multi-disciplinary Approach

Lack of coordinated communication between healthcare







How does it all work?



- We work closely with the claims disability case team to **identify the right claims cases**
- The member goes through a **detailed clinical evaluation**
- If member is selected, they go through weekly teletherapy with leading psychologist for 10-16 weeks
- We have a **dedicated case manager** who will keep all parties informed of member progress
- We have regular communication updates with the claims team
- End result is to get the claimant better, healthier and back to work





Access To Experts



PSYCHOLOGIST

THE 62nd ANNUAL CANADIAN REINSURANCE CONFERENCE



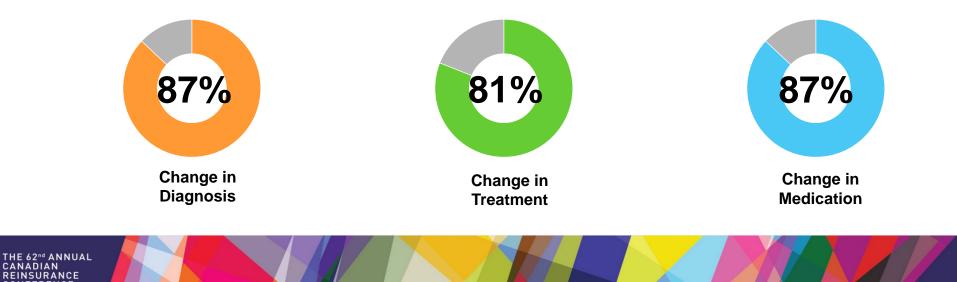
The Results

40% REDUCTION IN CLAIM DURATION

CLIENT SATISFACTION

94% HIGHEST SATISFACTION

Percentage of survey respondents who would recommend the Onward program to a friend, family member, or co-worker.









Oncology Insight

With O I Watson^{**}

The Clinical Challenges

• Time Pressures

- On average, doctors can only spend **15 minutes or less** with each patient

• Fragmented Care

- Some physicians are hesitant to adopt accredited EHRs due to the complexity of the systems and the lack of interoperability between different systems
- Leads to physician frustration, medical errors and redundant testing
- Multiple medical opinions from various specialists are obtained, often without coordination and collaboration between the specialists or with the Primary Care Provider (PCP)





The Clinical Challenges

Growing Body of Medical Knowledge

- Medical literature doubles every 3.5 years
- By 2020, it's estimated this will **double every 73 days**

Increasing Challenges for Patients

- Patients grow frustrated with relentless severe symptoms and seek definitive diagnosis and treatment
- Patients are subjected to costly and sometimes questionable procedures and treatments





A Cognitive Solution?

Understands

Watson can read and understand data—both structured & unstructured at a massive scale.

Reasons

Watson can search millions of pages of data and can recognize context and interpret the language of medicine.

• Learns

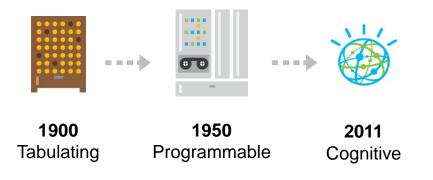
Watson learns from leading human experts and real world cases and continues to improve over time and experience.

Interacts

Previously "invisible" data and knowledge are delivered into actionable insights. Watson interacts with humans and is transparent.



Historic shift in technology





Veronika Litinski

CEO GeneYouln Inc.

Relmagine insurance



THE 62nd ANNUAL CANADIAN REINSURANCE CONFERENCE

The problem is Large...and Growing

\$30B

Spent Annually on Prescriptions in Canada... but 30% is wasted **\$13B**

Cost of Adverse Drug events per annum in Canada

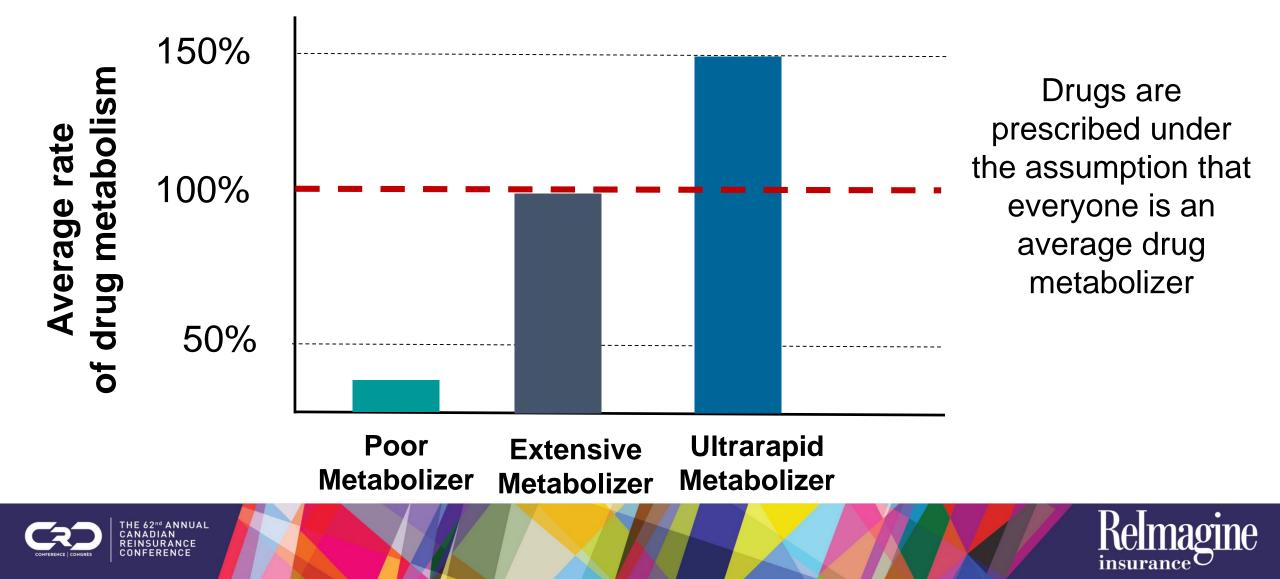
Genetic variants are estimated to affect between 20-95% of response variability, depending on the drug 95%

of people have genetic variations affecting drug response





Drug Metabolism

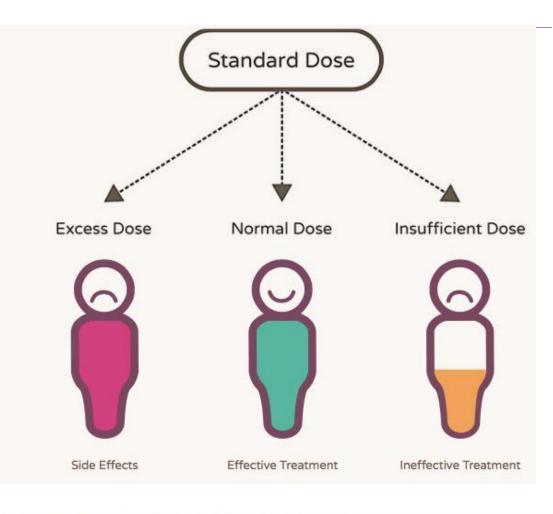


The Solution

Pillcheck® powers Personalized Medicine by matching insights into an individual's genetic variations with clinical guidelines to achieve better health.

Clinical, well-established gene-drug interaction and PGx guidelines are available for over half of the top 300 drugs prescribed.

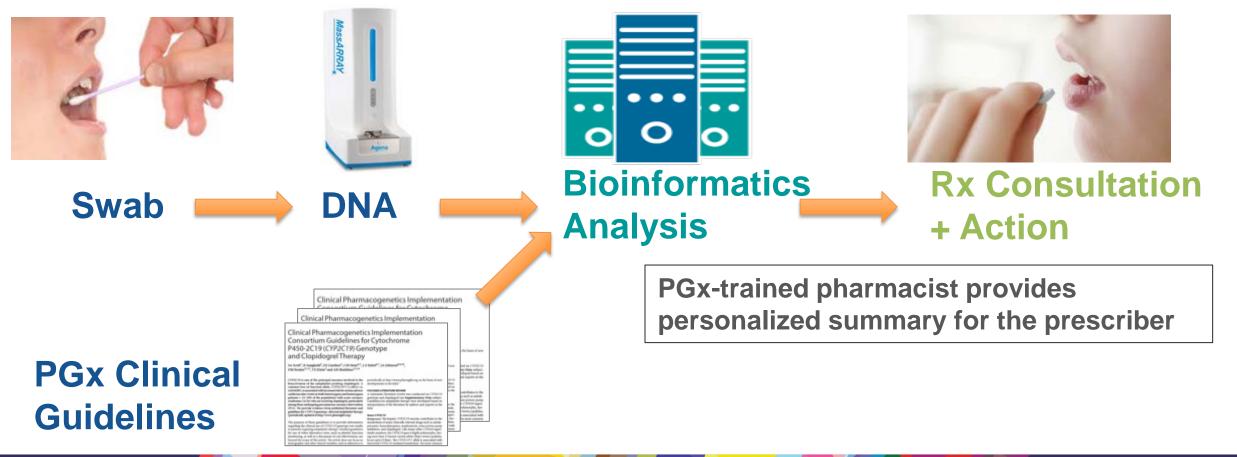
Pillcheck scope of >7000 DINs expanding quarterly according to new guidelines.







Process Overview



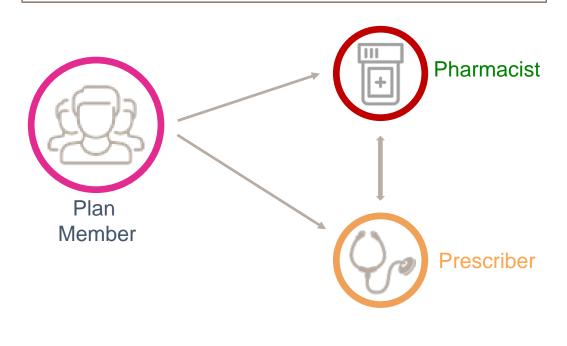




Pillcheck Ensures Privacy

NO individual data ever shared with Insurer/Employer Plan Pmt Sponsor Processing **Anonymized aggregate** service utilization reported to Payer

Pillcheck Report shared with Health Services Providers



Report Sharing Controlled by Customer Digital Consent

Pillcheck[®] IT platform solves the Integration, Design & Payment Challenge of Personalized Prescription Medicine.

It ensures that the new Genomics data stream aligns with the workflows of payers, doctors and pharmacists.

With Pillcheck data analytics health plans select specific cohorts to maximize the ROI of Pillcheck program.

The platform provides life-long value to patients.





PGx: Immediate Value to the Health Plan

Based on health-economic modeling, if **PGx test costs less \$1000**

and testing is conducted by the age of 40 the ROI for health plans is always positive¹.

(Pillcheck is \$499)

1. <u>https://www.nature.com/tpj/journal/v16/n2/full/tpj201539a.html</u>



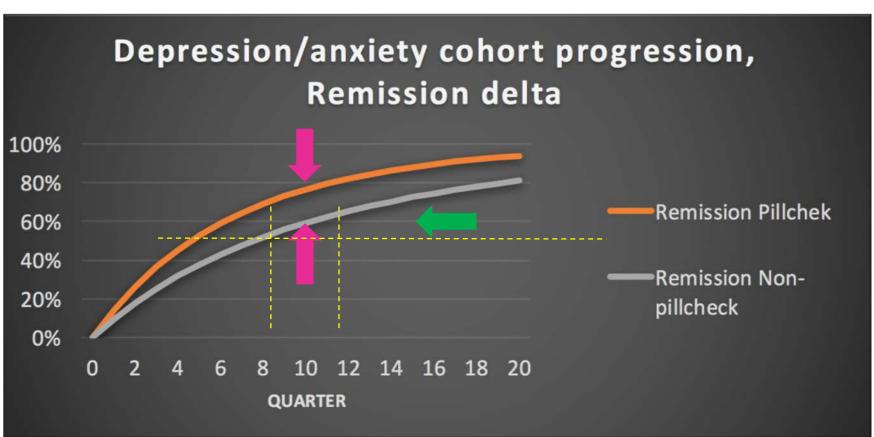


Economic Impact – More People Feeling Better Sooner

Economic Rationale

PGx-guided medication optimization applies to 30-40% of all disability cases.

Depending on the mix of diagnosis and prescription, PGxguided medication management reduces total cost by \$350-\$5,000 per patient.



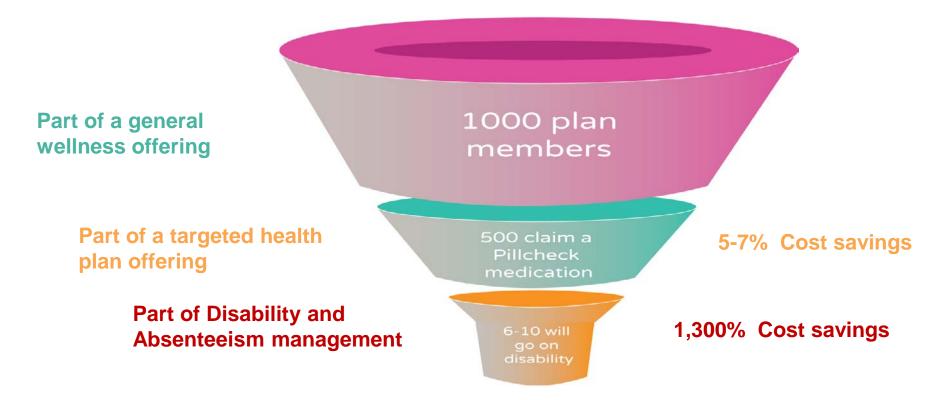




Claims analytics guide targeted Pillcheck programs to define budgets & optimize ROI

Earlier deployment in Disability journey = Maximum ROI

for plan sponsors + maximum health benefit for the individual



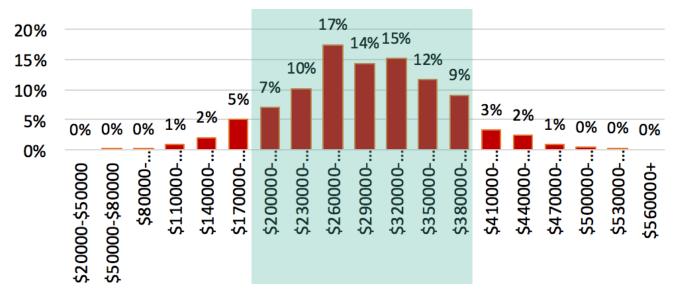




Health economics simulation of Pillcheck®in the plan

PROBABILITY OF SAVING





84% probability saving between \$200,000 and \$400,000 per 1000 plan members

*Productivity & Absenteeism excludes spouses and dependents









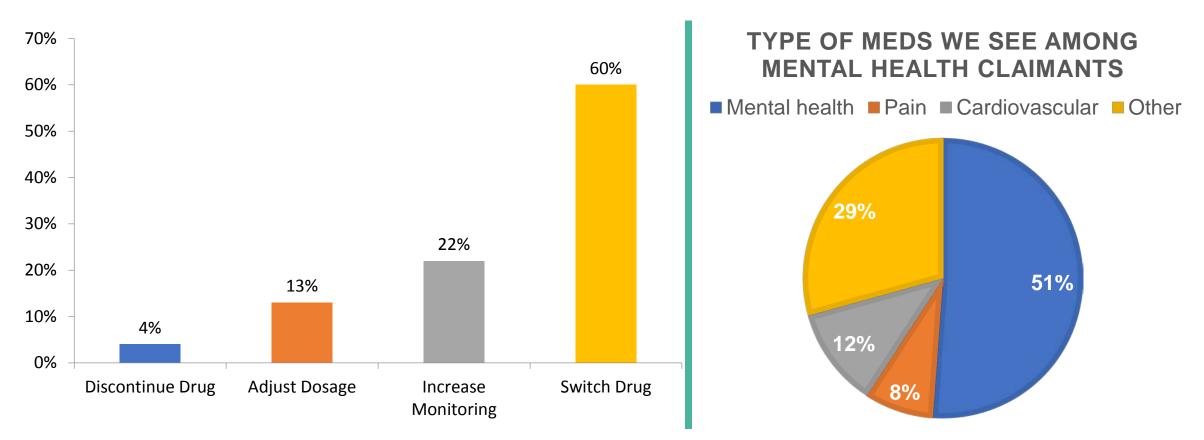
Results

55%

of eligible plan members signed up for Pillcheck in a recent workplace program

75%

of prescriptions in a recent program were changed with results from Pillcheck Pillcheck Program Outcomes, Targeted deployment (*) Disability claimants take on average **4.12 medication**



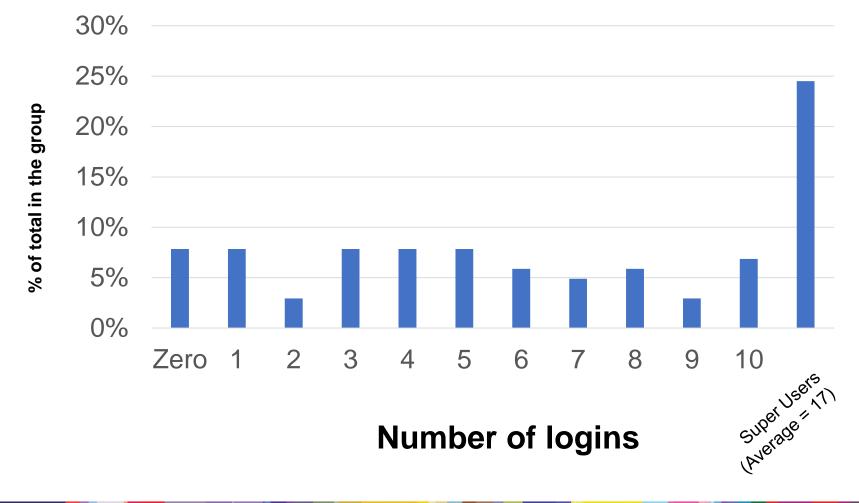
(*) The Innovative Canadian Pharmacogenomic Screening Initiative in Community Pharmacy (ICANPIC) study. J Am Pharm Assoc (20. 2017 Sep - Oct; 57(5)





Time period – 1 September 2017 to 1 March 2018

Number of Times Customers View their Pillchecks







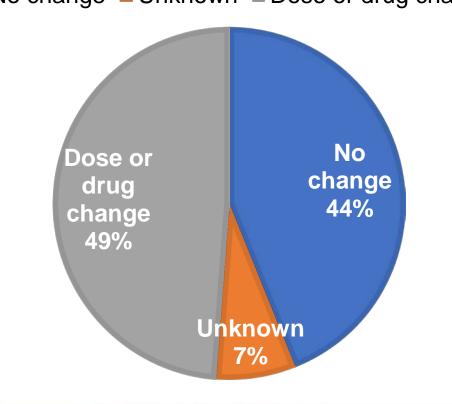
Attending physicians find Pillcheck useful

Physicians value the re-assurance of having a personalized medication guidance.

Pillcheck Pharmacist's Letter assists physicians with application of pharmacogenetics insights.

Fully digital medication optimization service available to claimants cost-to-coast

Pillcheck impact on prescriptions
No change Unknown Dose or drug change









Improves treatment efficacy while reducing side-effects, for today or tomorrow

pilcheck DISCOVER PRECISION

HEALTH CARE PROFESSIONALS

Helps doctors personalize treatments & practice best medicine



Avoids paying for ineffective medications & accelerate return to work







THE 62nd ANNUAL CANADIAN REINSURANCE CONFERENCE