

Trends in medication management: A case study

Jason Kennedy May 20, 2020







Terminology and background

Insured: any covered dual i.e. employee, spouse or child

Certificate: the employee and the linked dependants

Average age: average age of the insureds

Utilization: number of claims paid per certificate or insured depending on the context

Eligible cost: the cost of the drug considered eligible by TELUS Health. This measure does not take into account any cost sharing (deductible, co-insurance)







Terminology and background

Comparison with a specific group

- Results reflect the entire TELUS Health book of business (BoB)
- Results may differ significantly from plan to plan. The following elements have an important impact on the costs:
 - Plan coverage
 - · Demographics:
 - Age distribution
 - Gender distribution
 - · Number of dependants
 - · Provincial distribution
 - Industry







Terminology and background

Except if otherwise mentioned, data in this presentation is based on:

- Insured aged less than 65
- Costs are eligible costs, i.e. before deductible and co-payment







Top 10 drug classes by eligible amount

Therapeutic class	Rank by total eligible amount		Percent of total eligible amount	
	2019	2018	2019	2018
Rheumatoid arthritis	1	1	12.1%	12.1%
Diabetes	2	2	10.6%	10.0%
Skin disorders	3	3	6.9%	6.1%
Asthma	4	4	5.6%	5.6%
Depression	5	5	5.1%	5.1%
Cancer	6	6	4.1%	3.9%
Add / narcolepsy	7	9	3.9%	3.4%
Multiple sclerosis	8	8	3.6%	3.6%
Blood pressure	9	7	3.3%	3.8%
Antibiotics / anti-infectives	10	10	2.9%	3.1%
% of total eligible amount			60.8%	58.8%







Portrait of a diabetic

Drugs don't claim themselves.

View of what these members look like.

- What does an average diabetic look like?
- How does their medication regimen contribute to the cost?
- How this category also influences other categories
- Understand the cost impact of a diabetic member







Methodology

Extract claimants within the diabetes category

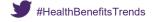
- Each claimant that made a claim from this category in 2019
- Extract all paid claims for this list of individuals
- Claimant level view

Data cleansing

 Removed any cardholder/DIN combination for which there was only 1 claim submitted for the specific DIN during the year

Distinct medications

Considered as count of unique molecule, not unique DIN







Methodology

Adherence

- Medication Possession Ratio (MPR) value
 - Total Days Supply/(Last Fill Date First Fill Date + Last Fill Days' Supply)

Data considers all diabetic categories Type 1, Type 2 and Gestational as 1 homogeneous group







Diabetes – Coles notes









Diabetes

Disease in which your body either can't produce insulin or properly use the insulin it produces

Progressive condition

Goal - optimum glycemic control (A1C)

Guidelines suggest A1C target within 3-6 months

Significant risk factors

High risk for cardiovascular and microvascular complications





Diabetes – Coles notes



Polypharmacy

Multiple medications and mechanisms of action for diabetic and risk factor management



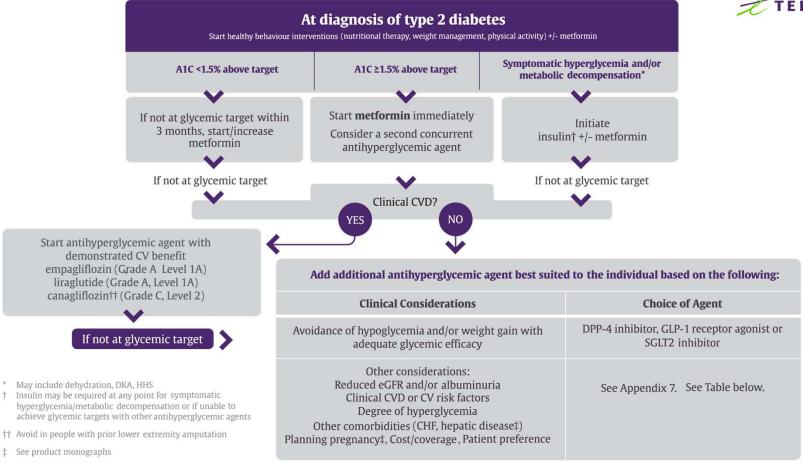
Defined treatment pathway and guidelines



Mix of medications available to treat

DPP4, GLP1,SGLT2





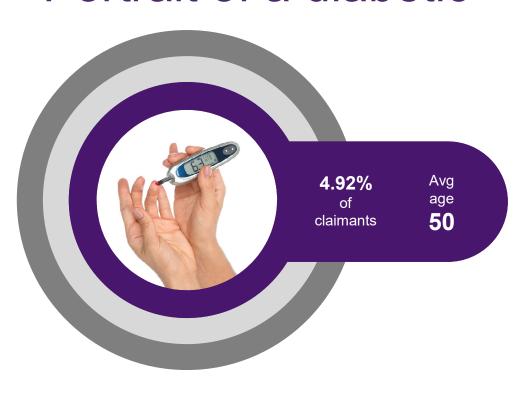
http://guidelines.diabetes.ca/cpg/chapter13

TELUS Proprietary





Portrait of a diabetic

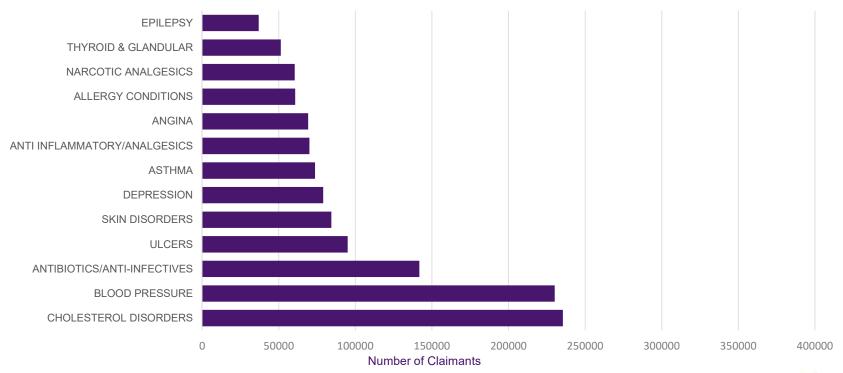








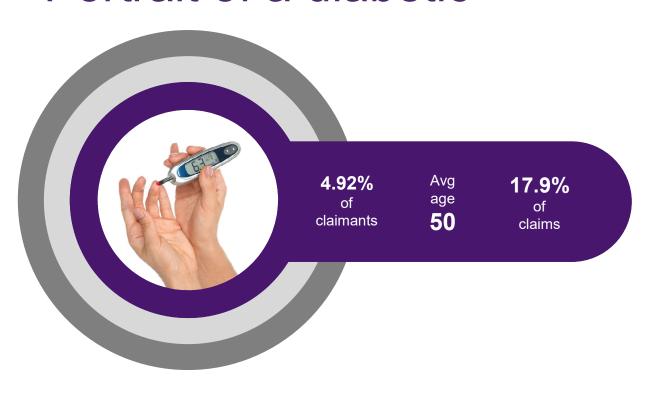
Medication mix



Anne Land



Portrait of a diabetic

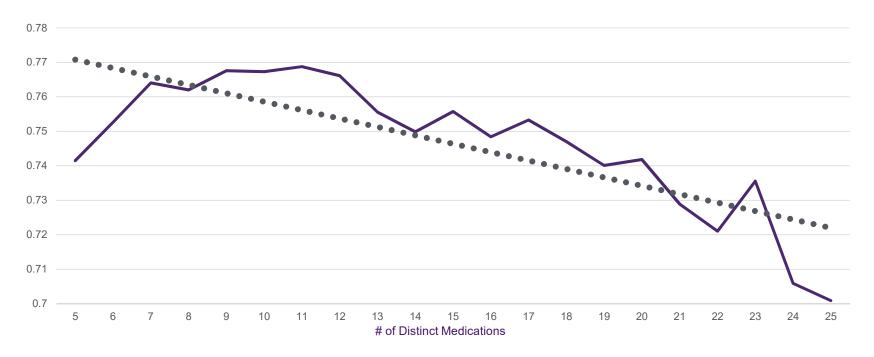








Adherence trend for diabetics

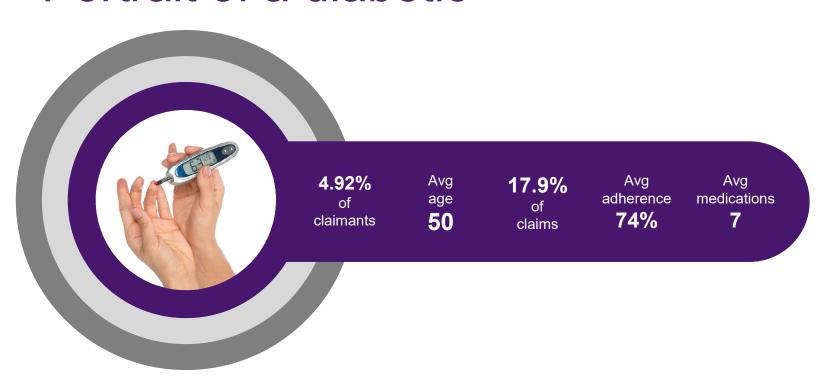








Portrait of a diabetic

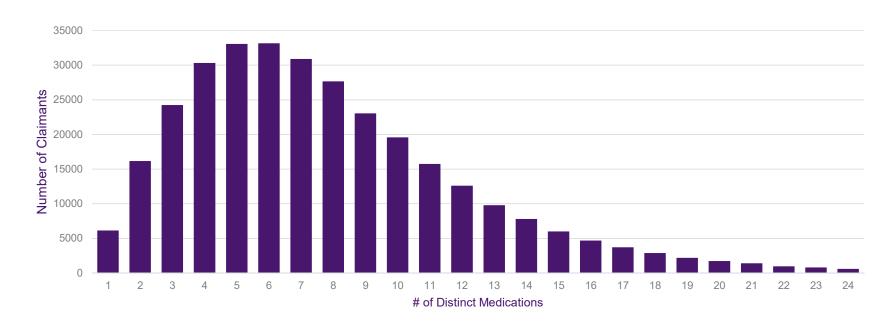








Claimant distribution

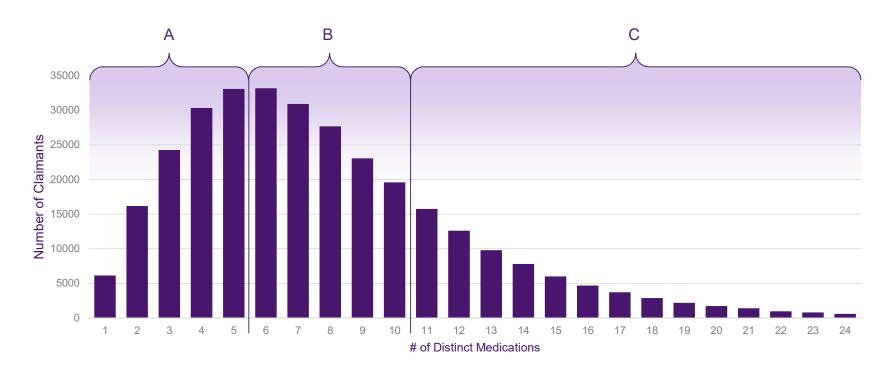








Claimant distribution



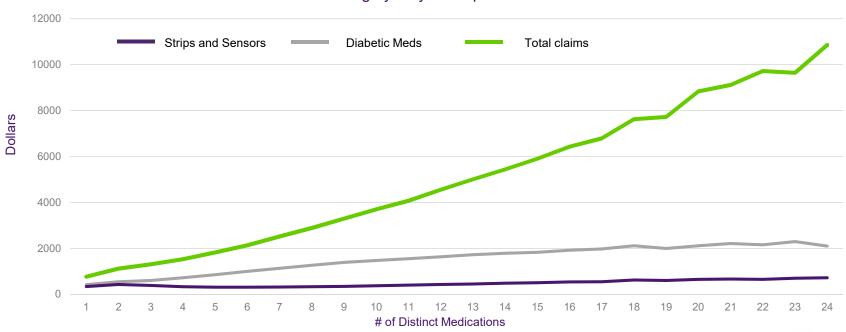






Annual cost breakdownd

Average yearly costs per claimant

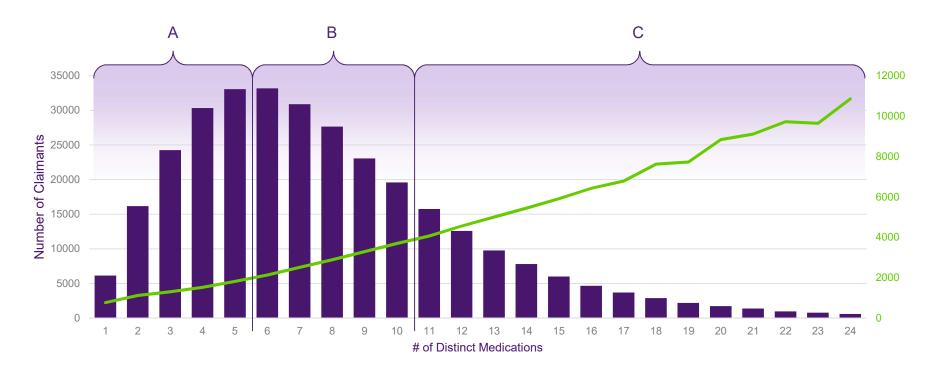








Claimant distribution and costs

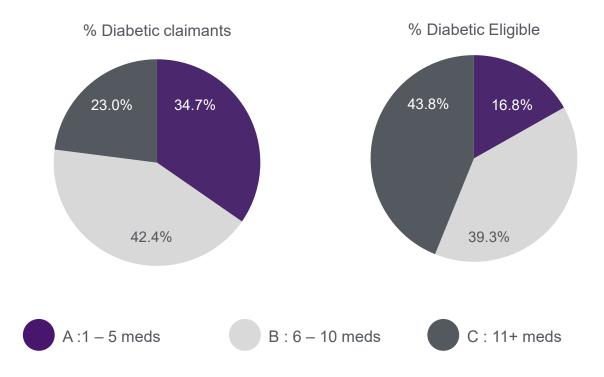








Claimant distribution

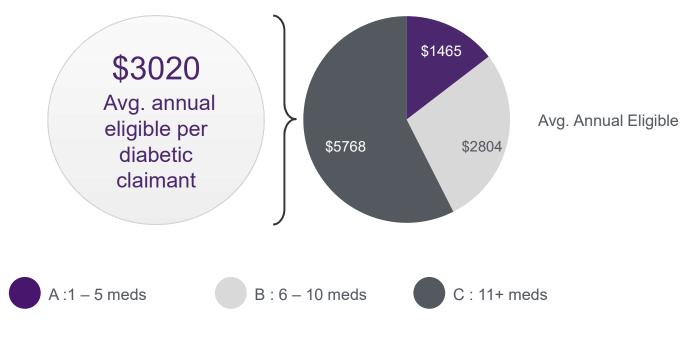








Claimant distribution

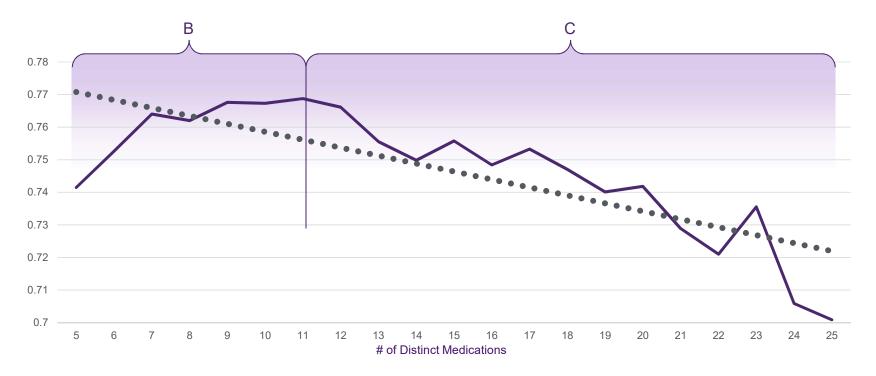








Adherence groupings

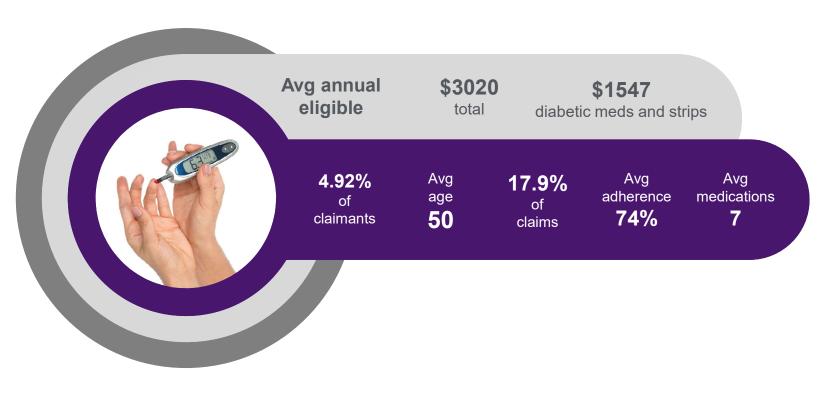








Portrait of a diabetic

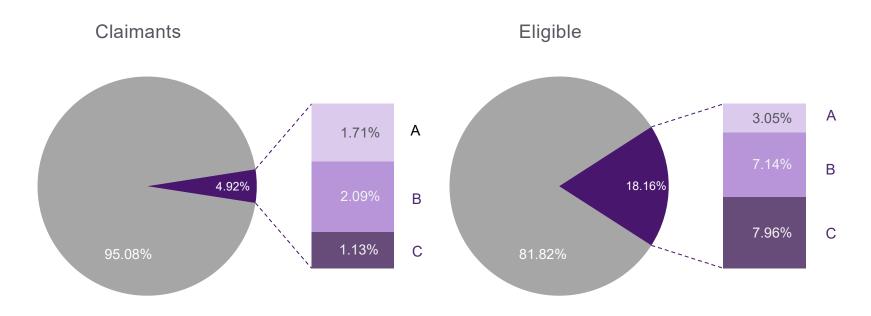








Diabetic against book of business









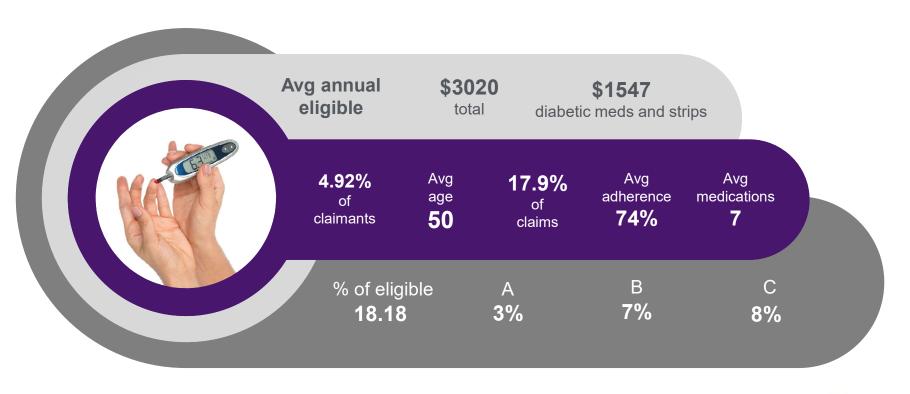
Diabetic vs diabetes class

	% claimants	% BoB eligible	
Diabetes class	4.92%	10.6%	
Diabetics	4.92%	18.18%	





Portrait of a diabetic









Opportunities to manage costs

Managed formularies

PLA

Step therapy

Biosimilars



Dispense fee limits

Blood glucose test strip limits

Prior authorisation



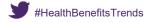


Portrait of a diabetic









TELUS Proprietary





What about the member?

Key messages

Healthy behaviour interventions should be initiated in people newly diagnosed with type 2 diabetes





What about the member?

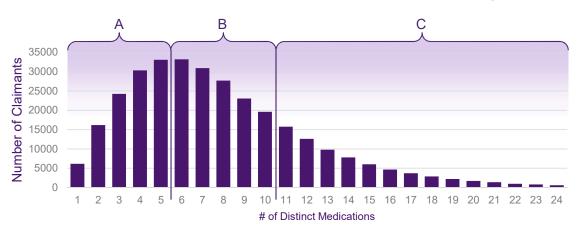
Key Themes

Healthy behaviour interventions should be initiated in people newly diagnosed with type 2 diabetes.

When and how

Education and Lifestyle: Diabetic educators, dietician, exercise,

Behavioural modification: wellness, adherence/persistence.









What about the member?



Pharmacy Partnerships



Alternative Strategies



Case management approach

Targeted interventions with elements of virtual care and online health coaching





Considerations



Costs of intervention relative to volume



Time to progression vs ROI calculations



Role of the payer vs healthcare system



Since 2015

A number of new therapies to support the treatment of diabetes. Notables include:

- Jardiance
- Ozempic
- Trulicity
- Basaglar

Diabetics	% claimants	% eligible	
2019	4.92%	18.18%	
2015	4.18%	16.02%	



Pipeline

Rybelsus – currently under review by Health Canada:

- Oral tablet in category with previously injectable formulations
- Target : June 2020

Pipeline allocation to diabetes is relatively small in comparison to other categories:

- Entrants to crowded categories
- New dosage forms of insulin
- New mechanisms of action







Summary

- Diabetics as a population responsible for 18.18% of the eligible costs in 2019
- Diabetic control and associated risk factors often require multiple medications to get to target
- Majority of costs driven by non diabetic medications
- Adherence is poor in this population, worsening as the medication load increases
- Prevention, early intervention and managing the patient vs plan design controls to manage the costs and progression of the disease



Questions?



#HealthBenefitsTrends



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Humira	2	2	4.5%	4.5%
Stelara	3	4	2.0%	1.8%
Insulin	4	3	1.5%	1.8%
Vyvanse	5	8	1.3%	1.0%
Concerta	6	6	1.3%	1.2%
Freestyle Libre	7	40	1.0%	0.5%
Enbrel	8	5	1.0%	1.3%
Symbicort	9	9	1.0%	1.0%
Crestor	10	7	1.0%	1.1%
% of total eligible amount			19.3%	18.9%



