



# Trends in medication management.

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#HealthBenefitsTrends

 **TELUS** Health

The logo for TELUS Health, featuring a stylized green 'e' symbol followed by the word 'TELUS' in bold black uppercase letters and 'Health' in a regular black font.



# Content outline

- i. Therapy class insights 2018
- ii. Legislative update
- iii. Biosimilars & subsequent entry products
- iv. Drug pipeline



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# Therapy class insights 2018

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# Top 10 drug classes by adjudicated amount

## Western Canada

Therapeutic class	Rank by total adjudicated amount		Percent of total adjudicated amount	
	2018	2017	2018	2017
Diabetes	1	1	11.0%	10.0%
Rheumatoid arthritis	2	2	8.2%	8.2%
Asthma	3	3	6.8%	6.7%
Skin disorders	4	5	6.2%	5.3%
Depression	5	4	5.8%	6.2%
Blood pressure	6	6	4.3%	5.1%
Add/Narcolepsy	7	8	4.2%	3.7%
Antibiotics/Anti-Infectives	8	7	4.1%	4.4%
Birth Control	9	9	3.7%	3.6%
Ulcers	10	10	3.1%	3.4%
<b>% of total adjudicated amount</b>			<b>57.5%</b>	<b>56.6%</b>

# Top 10 products by adjudicated amount

## Western Canada

Drug name	Rank by total adjudicated amount		Percent of total adjudicated amount	
	2018	2017	2018	2017
Humira	1	1	3.4%	3.3%
Remicade	2	2	2.6%	2.8%
Insulin	3	3	2.6%	2.7%
Stelara	4	11	1.4%	1.0%
Symbicort	5	4	1.3%	1.3%
Vyvanse	6	10	1.3%	1.0%
Botox	7	6	1.3%	1.1%
Concerta	8	12	1.2%	1.0%
Advair	9	5	1.1%	1.2%
Victoza	10	7	1.0%	1.1%
<b>% of adjudicated amount</b>			<b>17.2%</b>	<b>16.5%</b>

# Therapy class insights

## Diabetes

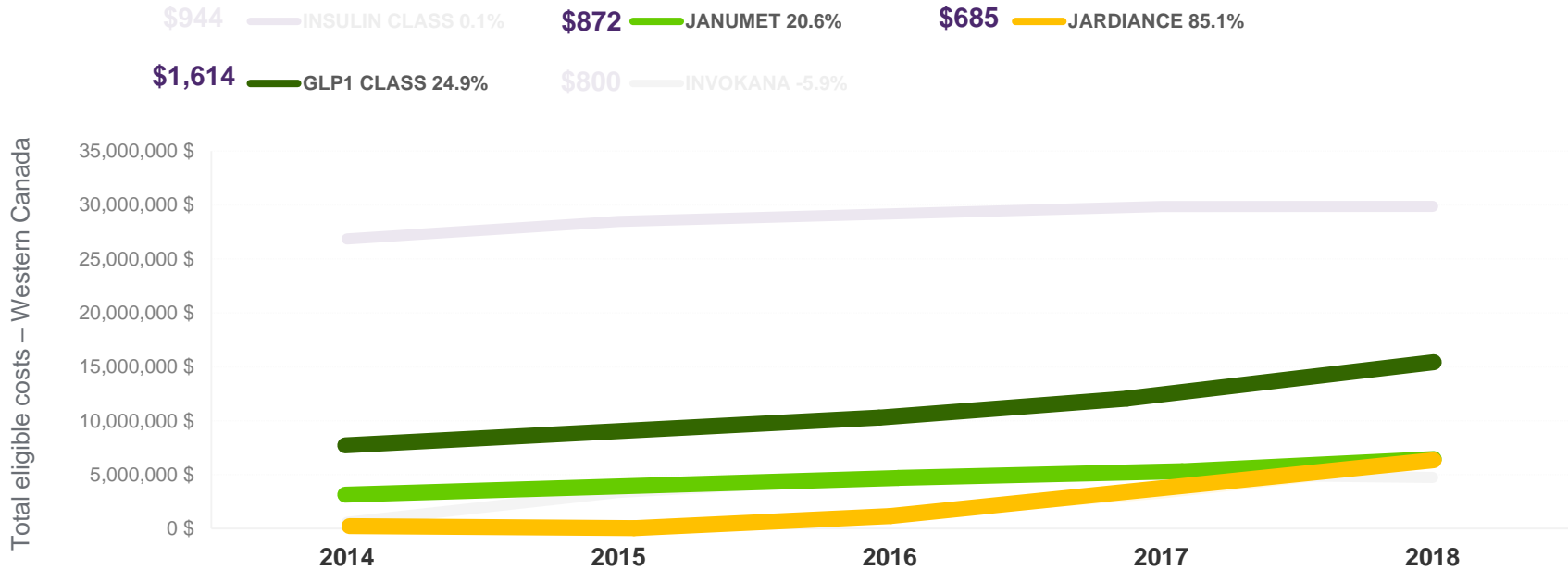
What is happening outside of the top 10?

Therapeutic class	Rank by total adjudicated amount		Percent of total adjudicated amount	
	2018	2017	2018	2017
HIV	37	34	0.4%	0.7%
Migraine	27	27	1.1%	1.1%

## Impact of generic substitution type

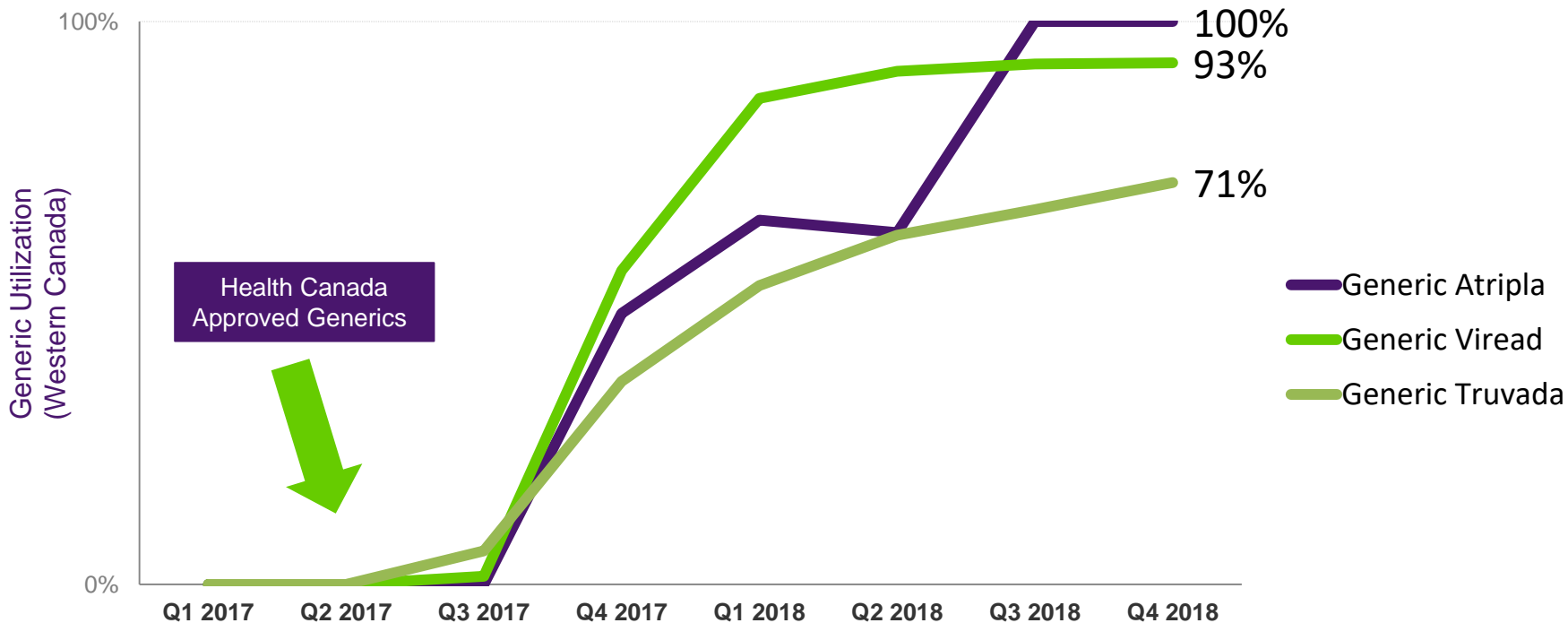
# Diabetes: Trends in medication use

Total eligible cost 2018: \$123 M (+13.5 %)



Suggested Management: Step Therapy

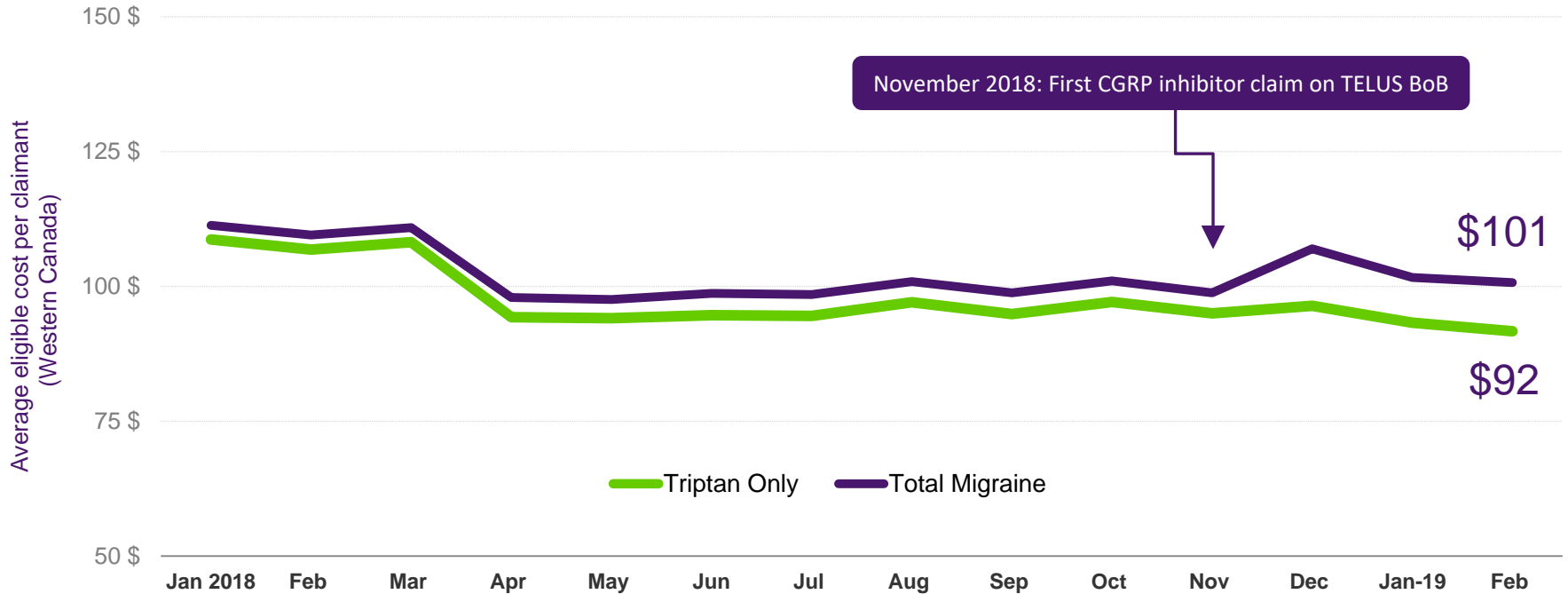
# Outside the Top 10: New HIV Generics



Suggested Management: Generic Substitution

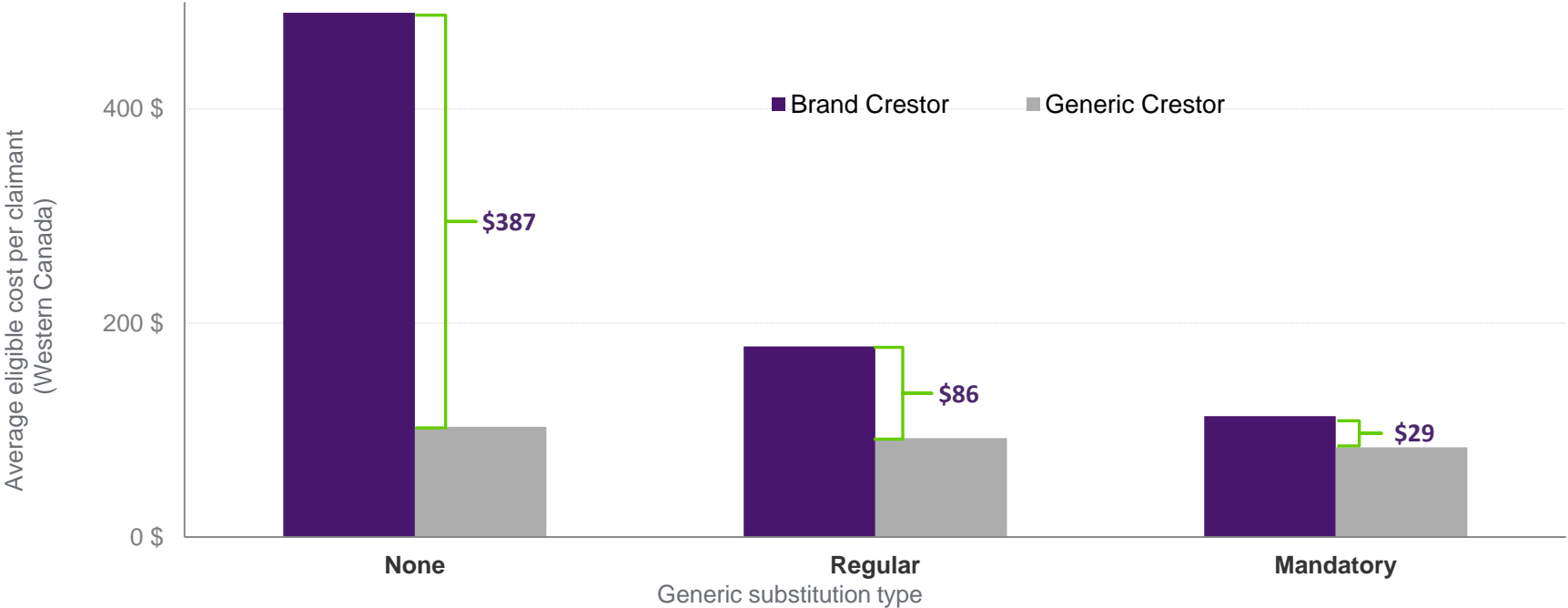


# Outside the top 10: Migraine – impact of new entrant



Suggested management: prior authorization / generic substitution / managed formulary

# Impact of generic substitution type – Crestor



Suggested management: mandatory generic substitution

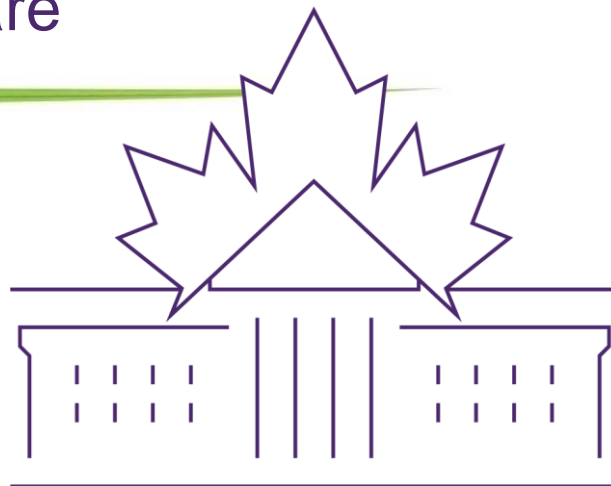


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# Legislative update

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# National pharmacare



# National pharmacare

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## Interim report & budget 2019

### Foundational recommendations for national pharmacare



1. Creation of a national drug agency: Canadian Drug Agency
2. Comprehensive, evidence-based national formulary
3. Invest in drug data and information technology (IT) systems
4. National strategy for high cost drugs for rare diseases



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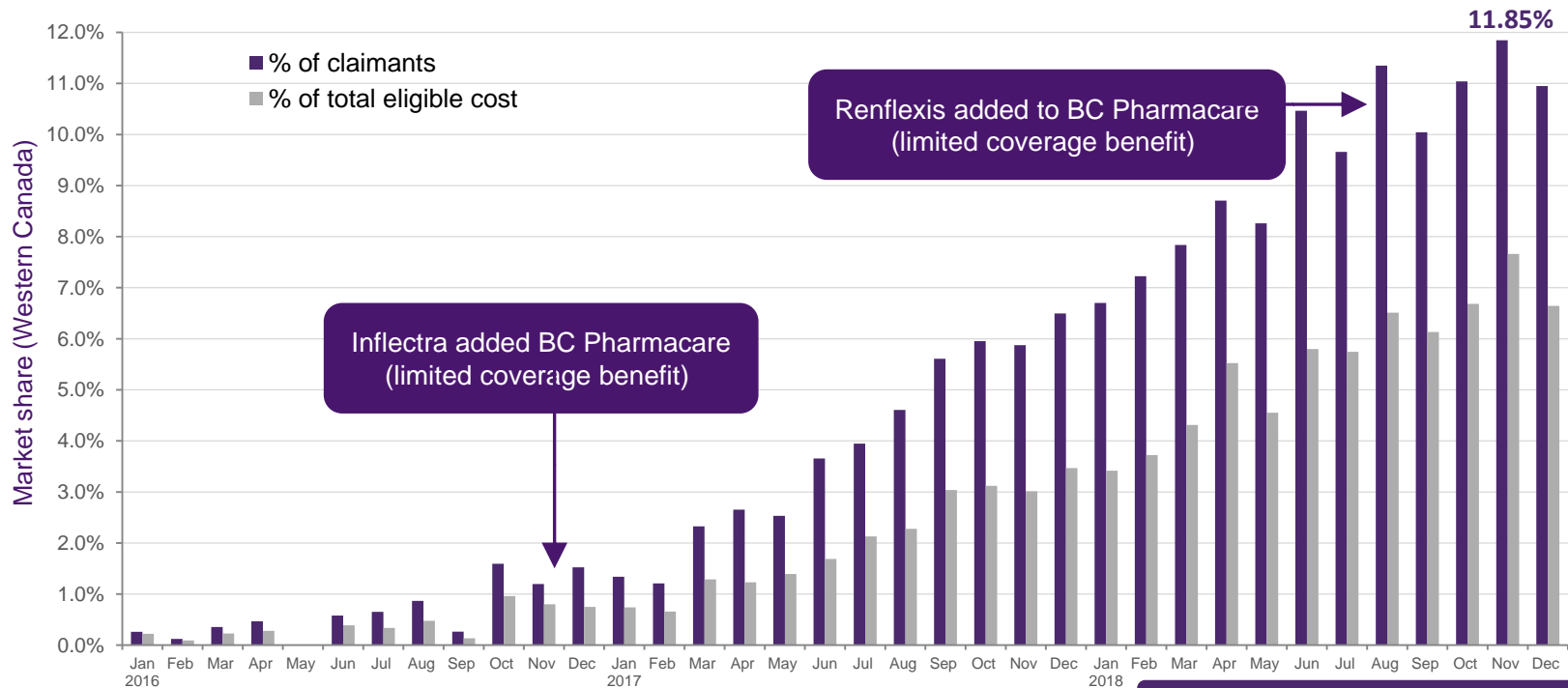
# Biosimilars & subsequent entry products

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# National uptake - TELUS BoB experience

Biosimilar brand name (chemical entity; reference brand)	Price difference vs. reference drug	% of claimants			% of total eligible cost		
		2016	2017	2018	2016	2017	2018
<b>GRASTOFIL</b> (filgrastim; Neupogen)	<b>-17%</b>	0.96%	31.34%	<b>57.82%</b>	0.40%	23.66%	<b>49.27%</b>
<b>INFLECTRA</b> (infliximab; Remicade)	<b>-46%</b>	0.84%	3.83%	<b>8.12%</b>	0.36%	1.48%	<b>3.94%</b>
<b>BRENZYS &amp; ERELZI</b> (etanercept; Enbrel)	<b>-37%</b>	0.09%	2.70%	<b>9.24%</b>	0.01%	1.00%	<b>4.53%</b>
<b>BASAGLAR</b> (insuline glargine; Lantus)	<b>-25%</b>	0.56%	1.66%	<b>3.97%</b>	0.22%	0.76%	<b>1.93%</b>
<b>GLATECT</b> (glatiramer; Copaxone)	<b>-29%</b>	-	-	<b>2.27%</b>	-	-	<b>0.69%</b>

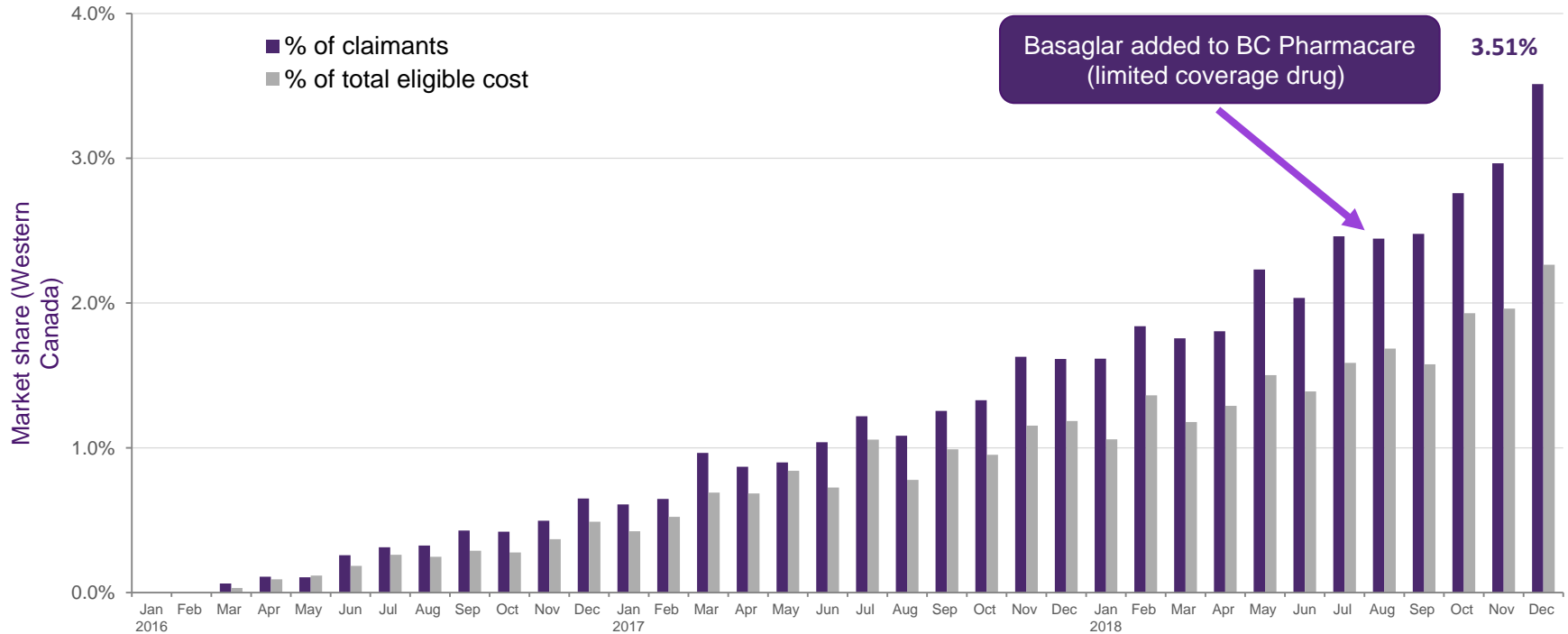
# Market share of infliximab Inflectra, Renflexis – Western Canada



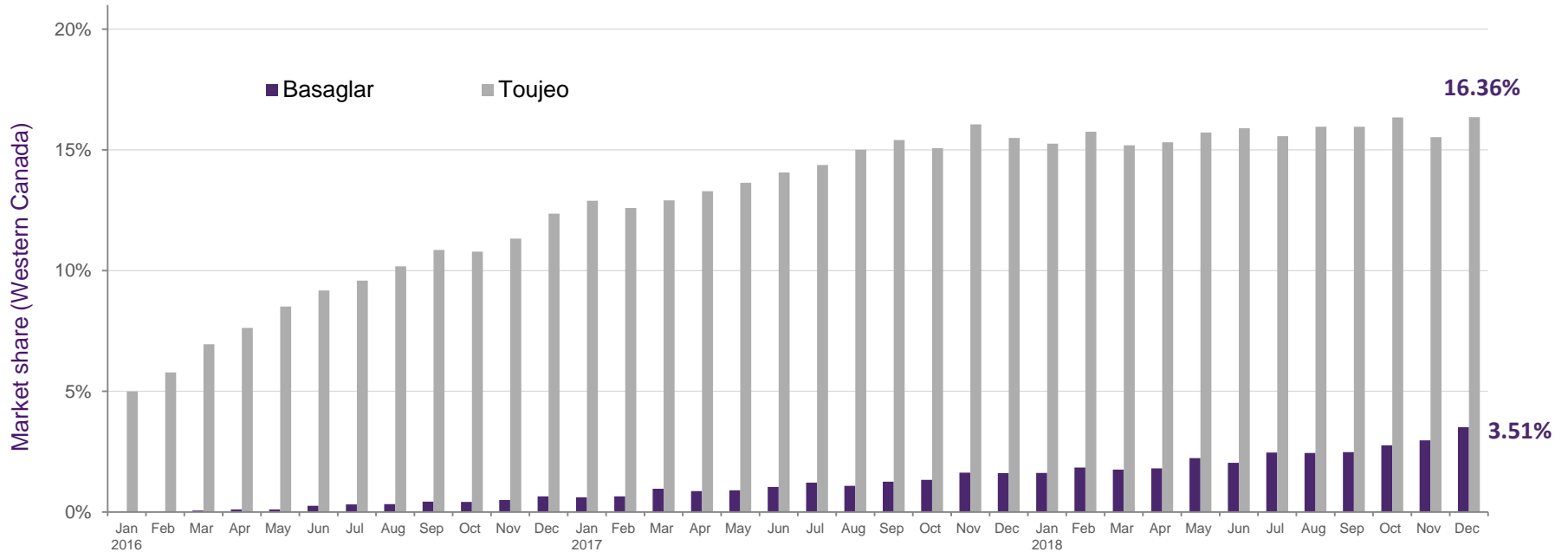
\* Renflexis (infliximab) : 1st claim in December 2018



# Market share of insulin glargine Basaglar – Western Canada



# Market share of insulin glargine Basaglar/Toujeo – Western Canada



# Update: biosimilars under review

## Expected launches within the next 3 years

Reference medication	Indication(s)	Health Canada regulatory status	Eligible amount TELUS BoB 2018
<b>Humira (adalimumab)</b>	Rheumatoid arthritis/ inflammatory conditions	1 currently under review - November 2018	\$177M
<b>Neupogen (filgrastim)</b>	Neutropenia	2 currently under review - April 2018	\$7.8M (originator) \$9.4M (biosimilar)
<b>Avastin (bevacizumab)</b>	Cancer (multiple indications)	2 currently under review - August 2018	\$4.2M
<b>Herceptin (trastuzumab)</b>	Breast cancer / gastric cancer	7 currently under review - February 2018	\$114K
<b>Rituxan (rituximab)</b>	Lymphoma / leukemia / rheumatoid arthritis / GPA & MPA	4 currently under review - April 2018	\$10.9M
<b>Forteo (teriparatide)</b>	Osteoporosis	1 currently under review - June 2018	\$2.7M

>\$212M



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# Drug pipeline

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# Submissions under review – Health Canada



## Cost drivers

132 submissions (new drugs & new indications)  
1/3 are cancer products  
New biologics (migraine, osteoporosis)  
Expansion of indications

## Cost relief

Biosimilar pipeline  
Generic submissions (40 molecules)  
Novel oral anticoagulants (Xarelto, Eliquis, Pradaxa)  
Multiple sclerosis (Gilenya & Fampyra)

# New drug pipeline – short-term

Drug	Indication	Potential impact	Cost
<p><b>larotrectinib</b></p> <p>Bayer</p>	<p>A kinase inhibitor targeted against solid tumors testing positive for a mutation known as an NTRK gene fusion.</p> <ul style="list-style-type: none"> <li>FDA approval in December 2018 (Vitrakvi) as a tumor agnostic drug.</li> <li><b>Submitted to Health Canada in November 2018</b></li> </ul>	<p>Oral cancer treatment, therefore will impact private payers. New paradigm in approval of oncology products without a specific cancer type.</p>	<p>U.S. pricing set between \$11,000 and \$32,800 per month (pediatric and adult dosing).</p>
<p><b>ataluren</b></p> <p>PTC therapeutics (Europe)</p>	<p>Approved in Europe for the treatment of Duchenne muscular dystrophy caused by a nonsense mutation.</p> <ul style="list-style-type: none"> <li><b>Submitted to Health Canada in September 2018</b></li> <li>Sold as TRANSLARNA in Europe</li> </ul>	<p>Would be first treatment approved by Health Canada for specific subset of Duchenne muscular dystrophy.</p>	<p>Rare disease pricing expected.</p>
<p><b>galcanezumab</b></p> <p>Eli Lilly</p>	<p>Monoclonal antibody (biologic drug) targeting CGRP indicated for the prevention of chronic and episodic migraines.</p> <ul style="list-style-type: none"> <li><b>Submitted to Health Canada in October 2018</b></li> <li>Aimovig (Novartis) submitted to Health Canada in October 2017, received NOC August 2018</li> </ul>	<p>Highly anticipated new drug class targeting a highly prevalent medical condition (approx. 8% of Canadians).</p>	<p>Expected annual cost up to \$7,000.</p>

# New indication pipeline – short-term

Drug	Indication	Potential impact	Cost
<p><b>Dupixent (dupilumab)</b></p> <p>Sanofi-Aventis</p>	<p>Recombinant human IgG4 monoclonal antibody that inhibits signaling of cytokines involved in atopic disease.</p> <ul style="list-style-type: none"> <li>FDA approval for severe asthma indication granted in October 2018.</li> <li><b>Submitted to Health Canada in November 2018</b></li> </ul>	<p>Based on pricing for treatment of atopic dermatitis, Dupixent would be a costly alternative to existing biologic alternatives in severe asthma.</p>	<p>Annual cost approximately \$30,000.</p>
<p><b>Keytruda (pembrolizumab)</b></p> <p>Merck</p>	<p>Currently approved in Canada for Melanoma, NSCLC, Hodgkin Lymphoma, Primary Mediastinal B-cell Lymphoma, Urothelial Carcinoma.</p> <ul style="list-style-type: none"> <li><b>Submitted to Health Canada from September 2017 to October 2018</b></li> <li>FDA approval for tumor agnostic indication based on common biomarker rather than tumor type</li> </ul>	<p>Traditional treatment indications based on tumor type potentially seeking tumor agnostic approval. New paradigm in approval of oncology products without a specific cancer type.</p>	<p>Approximately \$8,800 per treatment cycle.</p>

# Summary

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1. Therapy classes outside of the top 10 are evolving
2. How generic substitution is deployed can have a large impact
3. National pharmacare: advisory council final report – spring 2019
4. Use of biosimilar and subsequent entry products growing slowly
5. New drugs/indications under review both drive costs and provide relief



# Questions





# Thank you



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