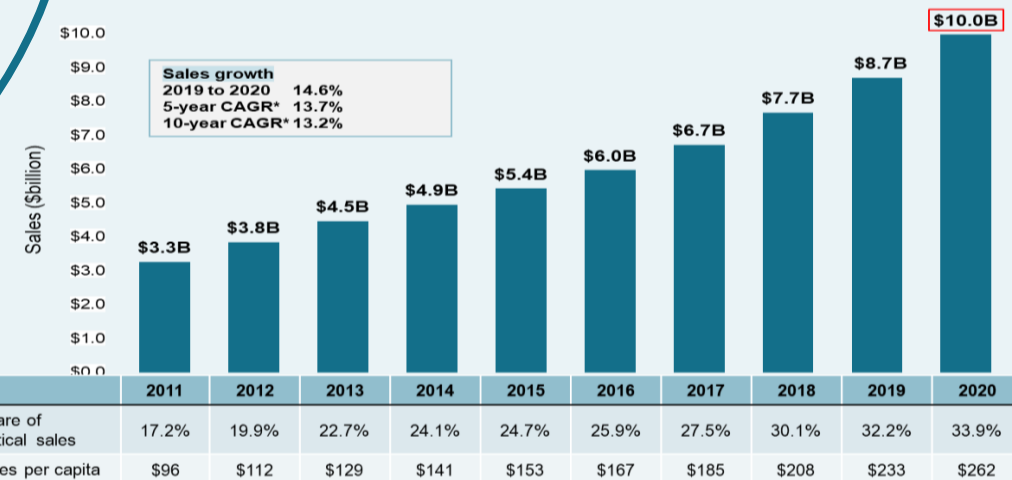


# Canada's Evolving Market for Biosimilars and What It Means for Payers

## RESULTS

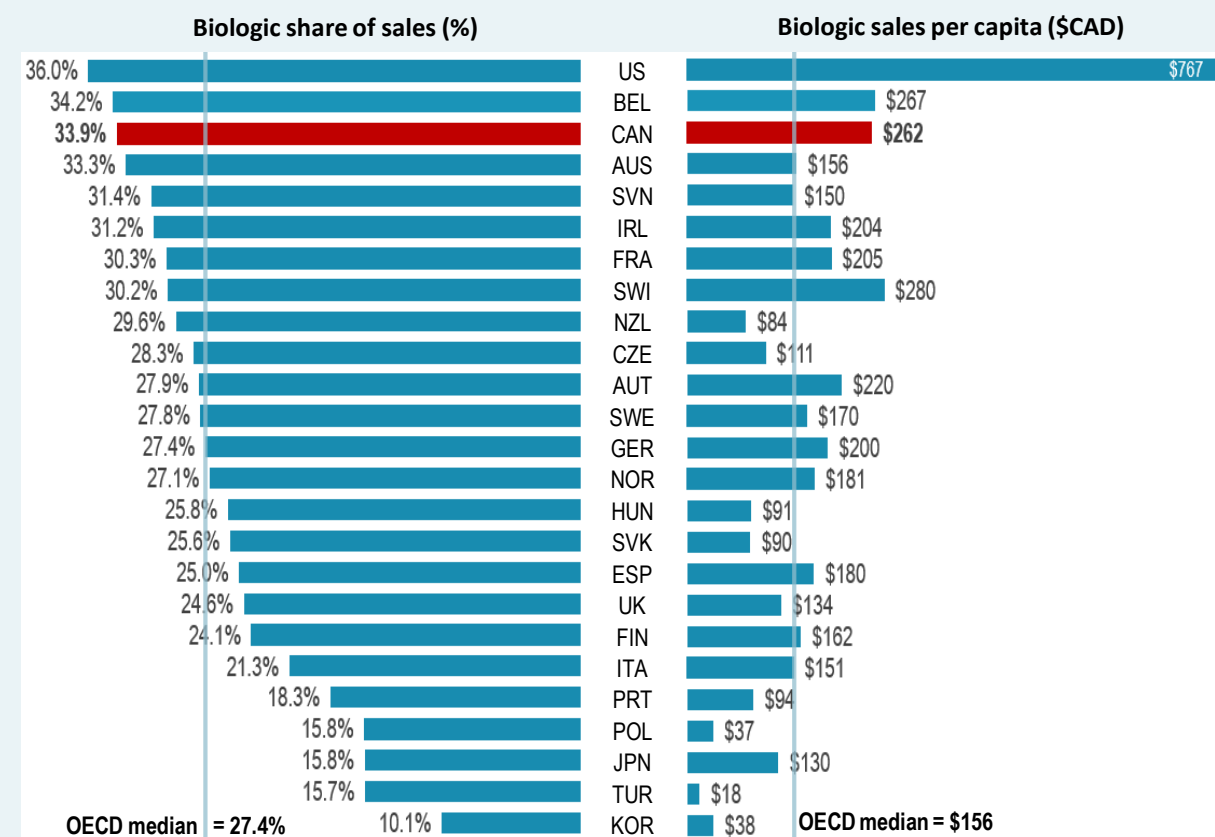
**Biologics market trends in Canada and international comparisons**  
Sales of biologic medicines in Canada have tripled over the last decade, rising from \$3.3 billion in 2011 to \$10.0 billion in 2020. This represents a 10-year compound annual growth rate of 13.2%, with a 14.6% increase in 2020 alone.

Sales of biologic medicines in Canada, 2011 to 2020



Canada spends more on biologics per capita than almost all other industrialized countries. In 2020, biologics accounted for 33.9% of pharmaceutical sales in Canada, the third-highest share in the OECD and exceeding the median of 27.4%. Canadians spent an average of \$262 per person on biologic medicines in the same year, well above the international median of \$156. This placed Canada fourth among the OECD countries in terms of per capita sales.

Biologic share of total sales and sales per capita, OECD\*, 2020

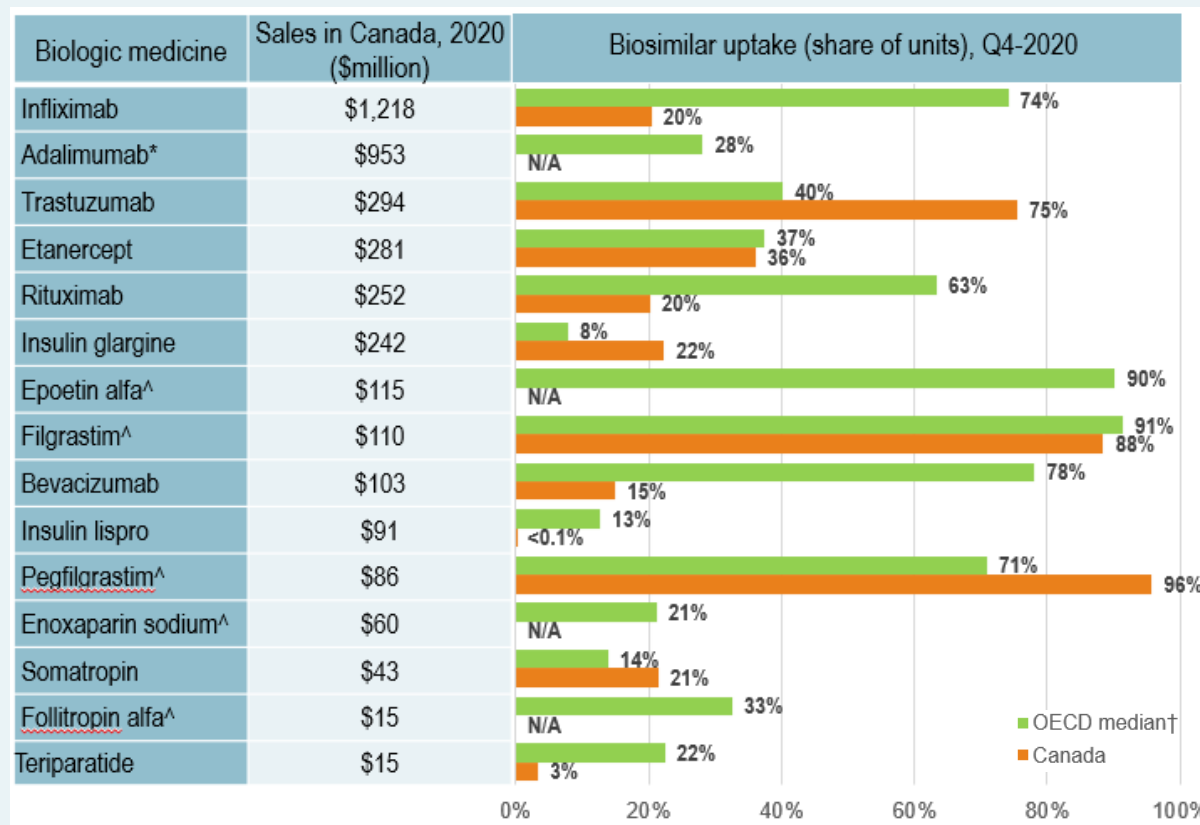


\* Countries with limited sales data were excluded from this analysis.

### Biosimilar availability and uptake in Canada and other OECD countries

Despite an increase in biosimilar approvals in Canada over recent years, Europe continues to lead with the highest in terms of the number of biosimilar approvals. As of the end of 2020, biosimilars for 14 distinct biologic medicines were approved by Health Canada, compared to 17 by the European Medicines Agency (EMA) and 12 by the US Food and Drug Administration (FDA). For distinct biologic molecules with biosimilars approved and sold across the OECD, biosimilar uptake in Canada is moderate compared to international markets, particularly for high-selling products. Infliximab, the top-selling biologic and one of the earliest with a biosimilar available in Canada, had a 20% biosimilar share in Canada in 2020, well below the OECD median of 73%. Adalimumab, the second highest-selling biologic medicine, had no recorded biosimilar sales in Canada in 2020 and a median biosimilar uptake of 28% in the OECD.

### Biologic share of units by medicine, Canada and the OECD, Q4-2020



\* In 2018 Adalimumab biosimilar was approved in Canada, with sales starting in February 2021. Therefore, no uptake is captured in the figure.  
^ Acute biologics.  
† Canada is excluded from the median.

### Biosimilar uptake challenges and current policies

In Canada there are several key factors that may influence biosimilar uptake:

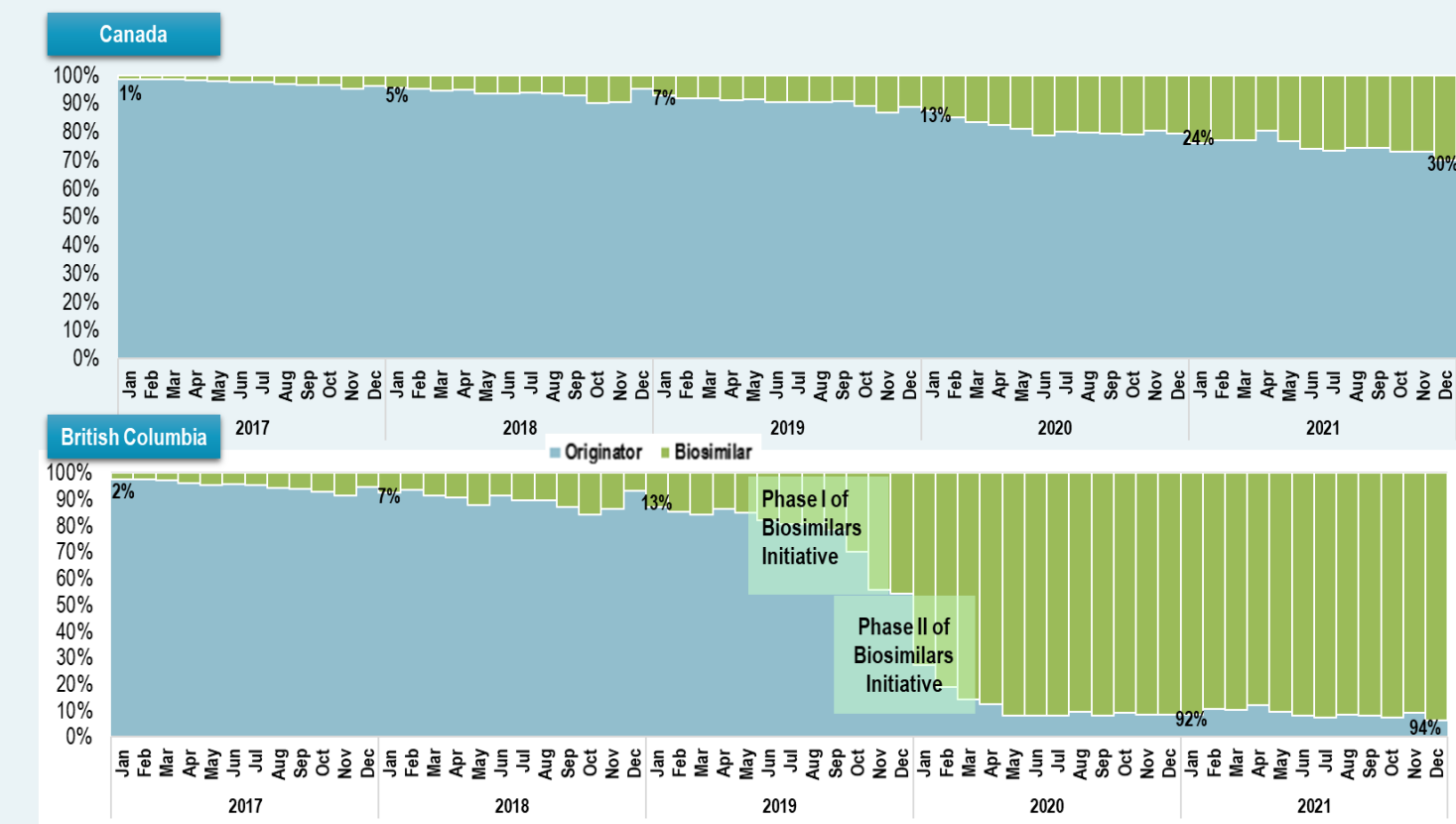
- **Interchangeability:** As in most countries, biosimilars are not interchangeable with the originator biologic.
- **Patient Switching:** Switching is not universally mandatory. The decision to switch a patient from the originator biologic drug to a biosimilar rests primarily with the treating physician in consultation with the patient and takes into account any policies of the relevant jurisdiction.
- **Maintaining Market Share:** Strategies/initiatives undertaken by the manufacturer of the originator biologic may limit the uptake of biosimilars.

Since May 2019, several Canadian payers have undertaken a number of initiatives to encourage switching from biologics to biosimilars with an aim of increasing biosimilar uptake, as outlined in the table below.

Payer	Initiative
Public payers	<b>British Columbia</b> In 2019, British Columbia became the first Canadian province to initiate a switch to biosimilar medicines for patients covered under the PharmaCare program. Under the Phase 1 & 2 policy initiatives, patients using <b>Enbrel, Remicade, and Lantus</b> for specific indications are required to switch to the biosimilar. The switching policy expanded to Phase 3 & 4 in 2020 and 2021 to include <b>Rituxan and Humira</b> .
	<b>Alberta</b> Effective Jan. 2021, Alberta announced that all patients taking <b>Enbrel, Remicade, Lantus, Neupogen, Neulasta, Rituxan, and Copaxone</b> for indications ranging from rheumatoid arthritis to diabetes and multiple sclerosis are required to switch to the biosimilar. This policy has since been expanded to include <b>Humira, Lovenox, and Hamlog</b> .
	<b>New Brunswick</b> Effective Apr. 2021, New Brunswick only reimburses biosimilar versions of approved indications of <b>Humira, Enbrel, Remicade, Lantus, Humalog, Rituxan, Copaxone, and Lovenox</b> .
	<b>Quebec</b> Effective Apr. 2021, the Quebec government announced a non-medical switching policy to require patients covered by the Quebec public drug plan who are treated with biologics drugs to switch to biosimilar versions where available and on an ongoing basis.
<b>MB, ON, NS, PEI, NL, YT, NIHB</b>	Planning to implement biosimilar switching strategies.
Private payers	<b>Green Shield Canada (GSC), Sun Life and Pacific Blue Cross (PBC)</b> have introduced policy initiatives to promote the use of biosimilar drugs.

These biosimilar switching policies have prompted wider uptake of biosimilar use in their respective jurisdictions. Infliximab, which holds one of the first biosimilar sales in Canada, was among the medicines targeted by British Columbia PharmaCare's Biosimilars Initiative. As a result of this initiative, biosimilars now account for 94% of the infliximab market in British Columbia, compared to just 30% of infliximab units sold nationally.

Biosimilar uptake (share of units) for infliximab, Canada and British Columbia, 2017 to 2021

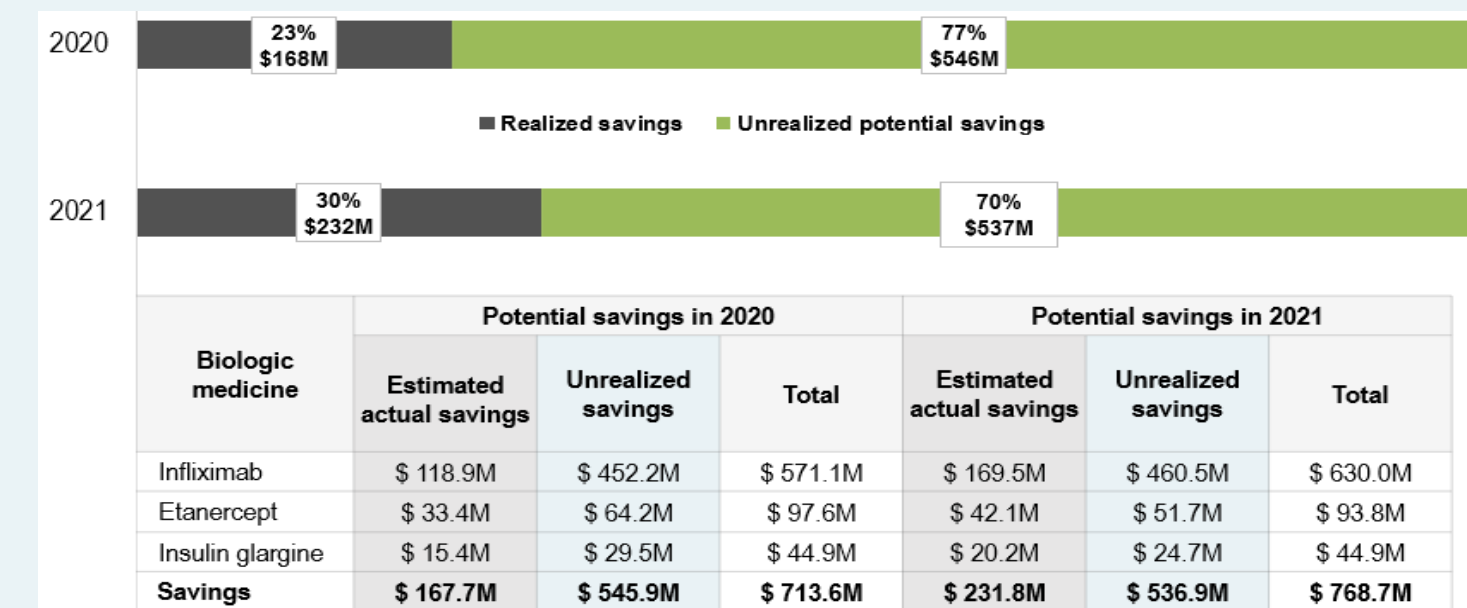


### Cost savings opportunities from biosimilars

As the historic savings from generic price reductions and substitutions begin to wane, savings from biosimilars could play an increasing role in offsetting rising drug costs. Given that these switching initiatives are implemented at the jurisdiction level and by payer, Canada offers a unique model to observe the impacts of variations in approach and timing of biosimilar uptake across jurisdictions.

National market penetration in line with the results seen in British Columbia may bear significant cost implications for Canadian payers, as evidenced by the increased use of three biosimilars targeted by British Columbia PharmaCare's Biosimilars Initiative: infliximab, etanercept, and insulin glargine 100IU. These biosimilars saved Canadians an estimated \$168 million and \$232 million in 2020 and 2021, respectively. If national uptake for these biosimilars had followed the trends in British Columbia, additional savings of nearly \$1.1 billion would have been attained from 2020 to 2021. As of the end of 2021, Canadians had only realized a fraction (30%) of the potential savings from the use of these biosimilars, with up to 70% in annual cost savings if biosimilar switching initiatives were implemented across all payers on a national scale.

Realized and potential savings from biosimilar use in Canada, 2020 to 2021



**NOTES**  
Data source: IQVIA MIDAS® Database, 2020 (all rights reserved); IQVIA Canadian Drugstore and Hospital Purchases Audit (CDH), 2020 to 2021; US Food and Drug Administration (FDA), European Medicines Agency (EMA), and Health Canada databases; and the World Bank.  
**LIMITATIONS**  
This analysis focuses on biologic medicines with sales in the Canadian market. Biologic medicines were selected based on Health Canada's Drug Product Database (DPD) Schedule D and Prescription lists and include insulin biologics. The cost savings model does not explore the impact of policy changes on biosimilar price levels; prices of biosimilars in the study period were used to calculate cost implications and savings.  
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