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Conseil d'examen Medicine Prices du prix des médicaments Review Board brevetés

Canadian oncology drug market: a highgrowth, high-price therapeutic area

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Conflict of interest disclosure

> No conflicts of interest to declare.

Patented Medicine Prices Review Board has a dual role in the Canadian healthcare system

Independent, quasi-judicial agency that regulates ceiling prices of all patented drugs sold in Canada. Created in 1987 as part of a major overhaul of Canada's drug patent regime, with a dual role:

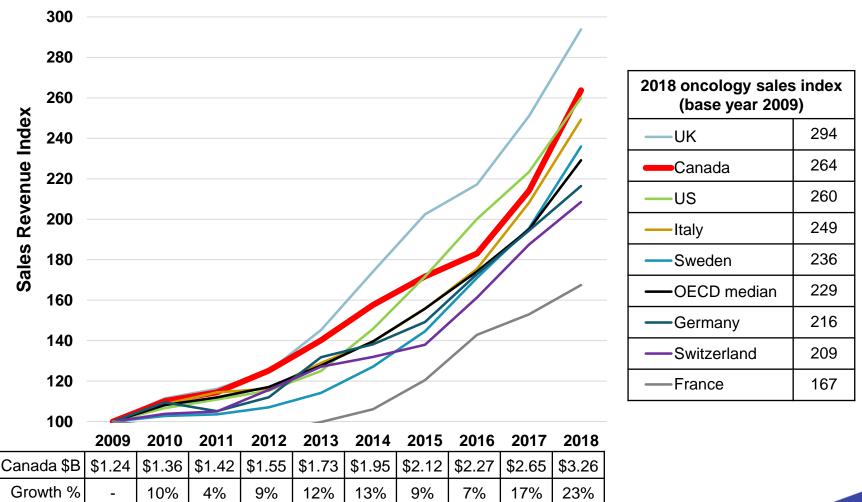
- 1) **Regulatory:** To ensure that prices charged by patentees for patented medicines sold in Canada are not excessive.
- 2) **Reporting:** To report on pharmaceutical trends of all medicines and on R&D spending by pharmaceutical patentees.

The PMPRB assesses new drugs for level of therapeutic benefit relative to existing therapies, and assigns a ceiling price that is based on either:

- The median international price of the PMPRB7 comparator countries: Germany, France, Italy, Sweden, Switzerland, UK, US;
- > The highest price in the domestic therapeutic class, or;
- A combination of the two.

PMPRB allows price increases linked to CPI, but never to the point of becoming highest in the PMPRB7.

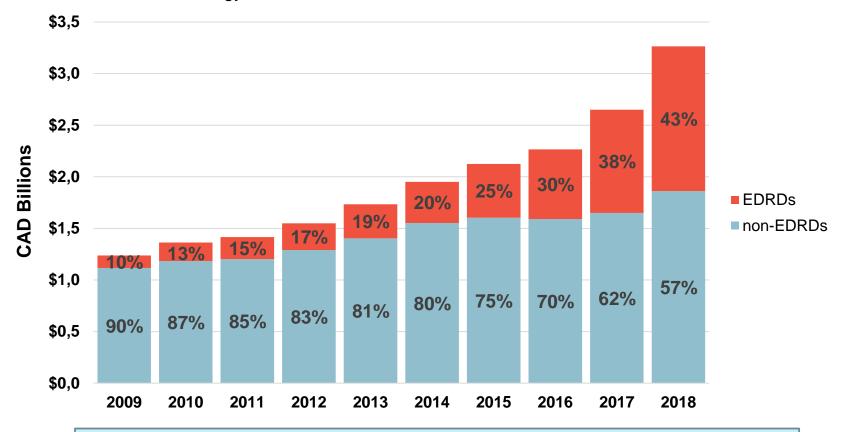
Canada has had one of the fastest-growing oncology markets over the past decade, with a compound annual growth rate of 11.4%



Oncology Sales Revenue Index, Canada, the PMPRB7, and OECD median, 2009 to 2018

"Expensive Drugs for Rare Diseases" have grown to become a substantial proportion of the oncology market

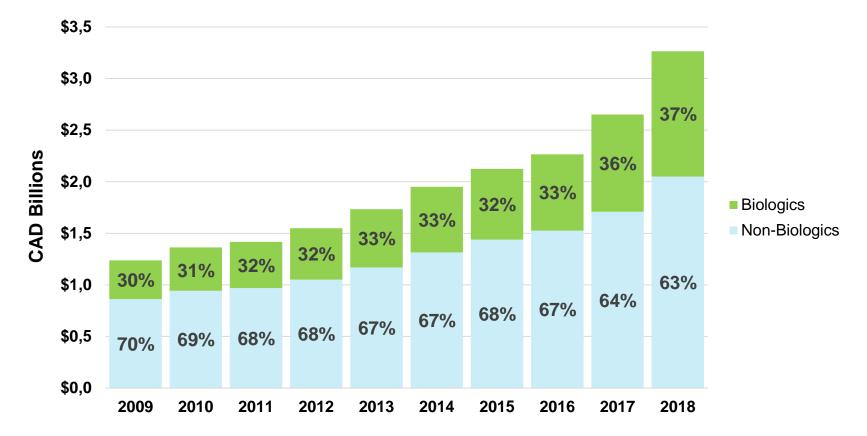




EDRD definition for oncology medicines: orphan designation and >\$7,500 CAD for 28-day course of treatment

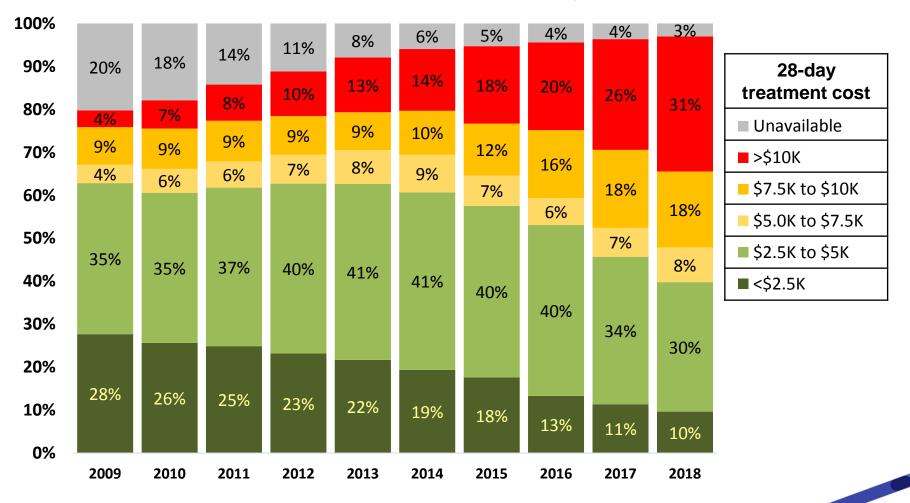
Biologics are gradually increasing as a share of oncology sales revenue

Sales of oncology medicines, biologics and non-biologics, Canada, 2009 to 2018



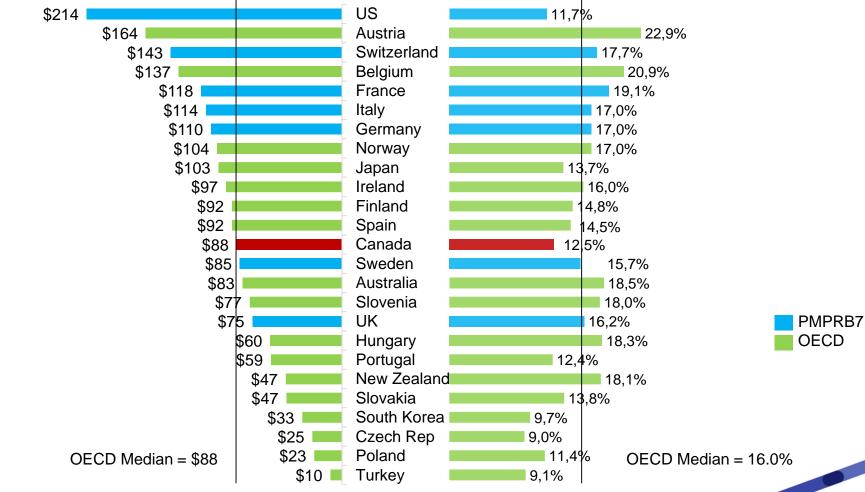
Drugs with 28-day treatment costs over \$7,500 (CAD) now make up 49% of Canadian oncology sales, up from 13% in 2009

Sales revenue share by 28-day treatment cost (CAD) of oncology medicines, Canada, 2009 to 2018



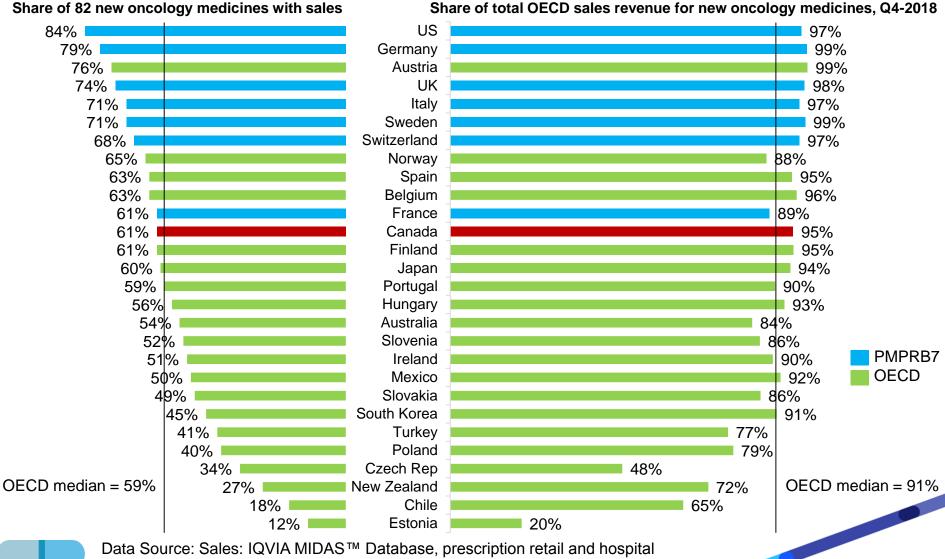
Canada is near the middle of the OECD in per capita oncology sales and sales revenue as a share of the total prescription market

Oncology sales (CAD) per capita and as a share of all prescription drug spending, OECD, 2018



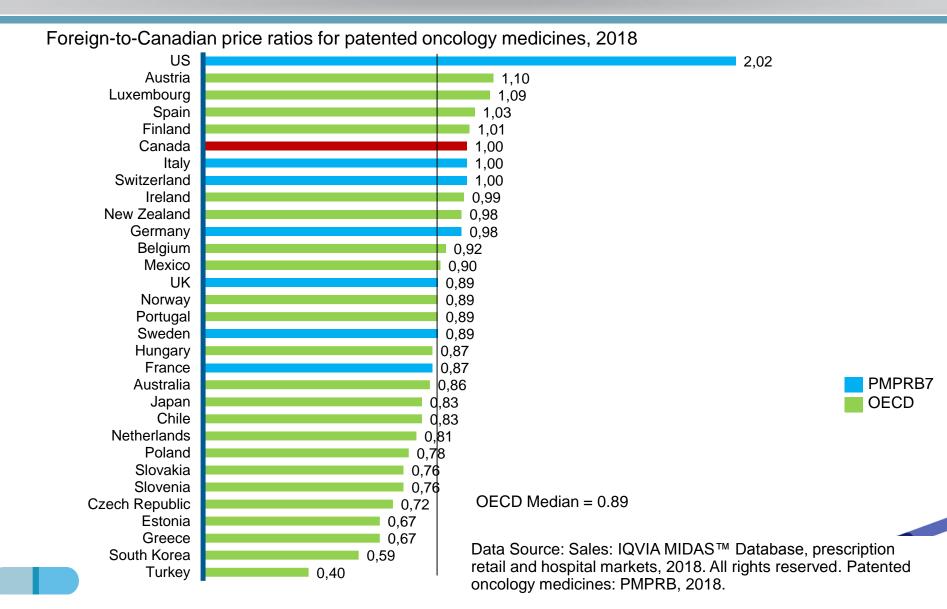
Data Source: Sales: IQVIA MIDAS[™] Database, prescription retail and hospital markets, 2018. All rights reserved. Population: World Bank. Note: Median is calculated based on the countries for which data is available.

Of 82 new oncology medicines launched in the OECD from 2009-2017, 50 had sales in Canada in 2018, representing 95% of sales revenue



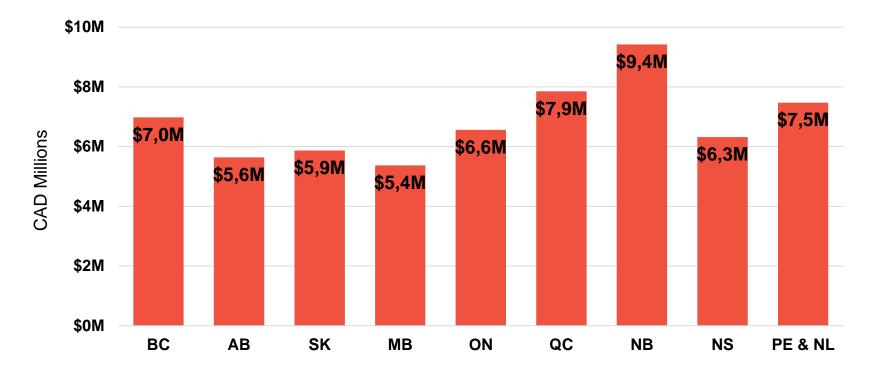
markets, 2018. All rights reserved.

Canada pays some of the highest prices for oncology medicines, though the PMPRB7 and other major markets have greater availability



Healthcare delivery in Canada is mostly a provincial/territorial responsibility, with oncology spending varying across provinces

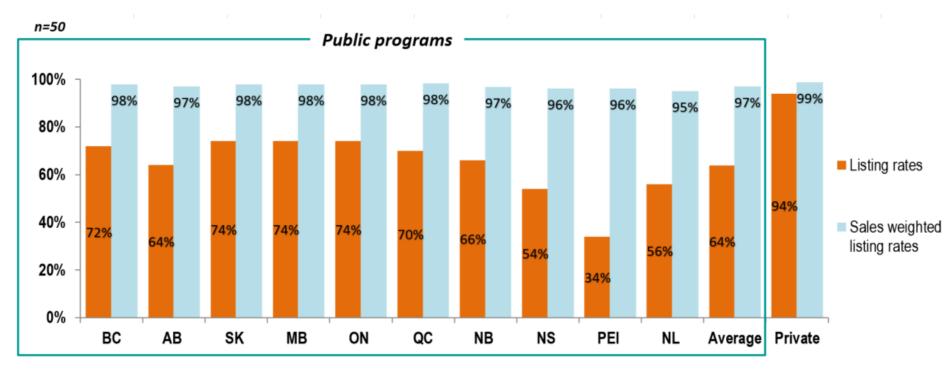
Public and private sales per 100,000 population for select oncology medicines, Canada, 2018



Data Source: Sales: IQVIA Canadian Drug Store and Hospital Purchases Audit (CDH), 2018. Population: Statistics Canada, 2018.

Public plan coverage varies for oncology medicines, though salesweighted listing rates are similar and near-total

Listing rates as of Dec 31, 2018 for Canadian provincial public drug programs, and availability in private drug plans for select new oncology medicines



Listing rates for 50 oncology medicines launched in the OECD from 2009 to 2017.



Data Source: Sales: IQVIA Canadian Drug Store and Hospital Purchases Audit (CDH), 2018, and IQVIA Private Pay Direct Drug Plan Database, 2018.

Conclusions

Canada has had one of the fastest-growing oncology markets since 2009, outpacing the US and most other OECD countries

> As the market grows, an increasing share is captured by more expensive therapies

- EDRDs and biologics are growing as a share of oncology spending
- Nearly half the oncology market is made up of medicines with 28-day treatment costs over CAD \$7,500
- Over 30% of spending goes toward medicines > CAD \$10,000
- Canada pays some of the highest prices for oncology medicines in the OECD, though the PMPRB7 and other major markets have greater availability
- Levels of oncology spending and public plan coverage vary by province, however the oncology drugs making up the vast majority of sales revenue are reimbursed



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THANK YOU

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