Conseil d'examen du prix des médicaments brevetés Canada



National Prescription Drug Utilization Information System

SUPPLEMENT: 2017



INTRODUCTION

This document is a supplement to the PMPRB publication "Market Intelligence Report: Biologic Response Modifier Agents, 2015" produced under the NPDUIS initiative. The supplement provides updated information for key market trends identified in the original report using data for 2016 and 2017. These trends, which are captured in the corresponding figures, represent only a subset of the results published in the original report.

The methodology is in line with that of the original study, and the associated introductory material, limitations, overall conclusions, and disclaimers still apply. The results presented in this supplement follow the general interpretation provided in the original report.

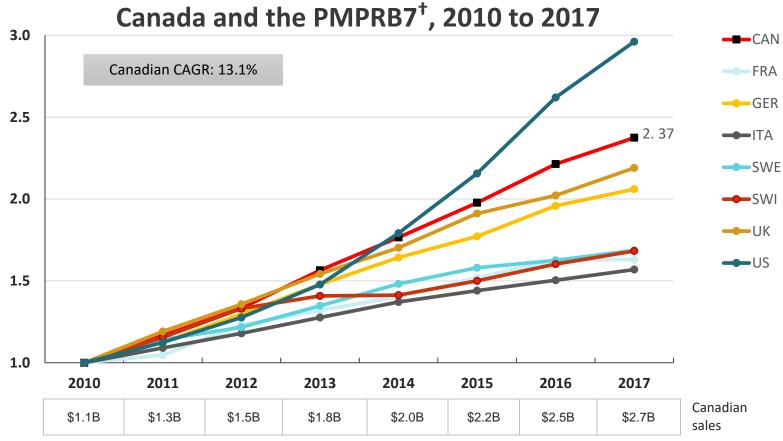
LIST OF FIGURES

- **Figure 2.1** Biologic DMARDs sales index, Canada and the PMPRB7, 2010 to 2017
- Figure 2.2 Biologic DMARD market shares of total pharmaceutical sales, Canada and the PMPRB7, 2010 to 2017
- **Figure 2.4** Distribution of sales by biologic DMARD, Canada and the PMPRB7, 2017
- **Figure 3.1** Trends in Canadian sales of biologic DMARDs, by drug product, 2010 to 2017
- **Figure 3.6** Annual treatment costs in public drug plans, by biologic DMARDS, 2010 to 2017
- **Figure 4.1** Average foreign-to-Canadian price ratios for biologic DMARDs, Canada versus PMPRB7 and OECD countries, 2017
- **Figure 4.2** Foreign-to-Canadian price ratios by biologic DMARD, Canada versus PMPRB7 and OECD countries, 2017
- **Figure 4.3** Annual treatment costs for biologic DMARDs, Canada versus PMPRB7 and OECD countries, 2017
- **Figure 4.4** Rate of consumption of biologic DMARDs, Canada versus PMPRB7 and OECD countries, 2017

Available at: http://www.pmprb-cepmb.gc.ca/view.asp?ccid=1286&lang=en

¹ Patented Medicine Prices Review Board. 2016. Market Intelligence Report: Biologic Response Modifier Agents, 2015. Ottawa: PMPRB.



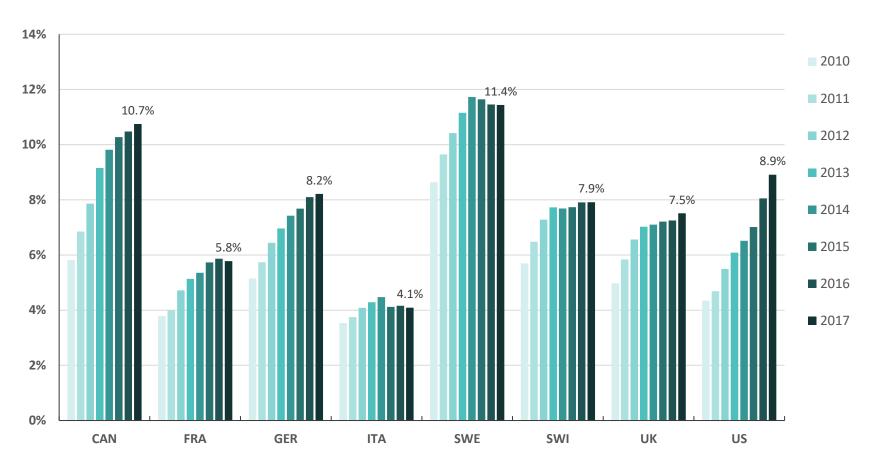


^{*}Manufacturer price levels.

[†]France, Germany, Italy, Sweden, Switzerland, the United Kingdom, and the United States.

Data source: MIDAS™ Database, prescription retail and hospital markets, 2010 to 2017, IQVIA. All rights reserved.

Figure 2.2 Biologic DMARD market shares of total pharmaceutical sales*, Canada and PMPRB7[†], 2010 to 2017

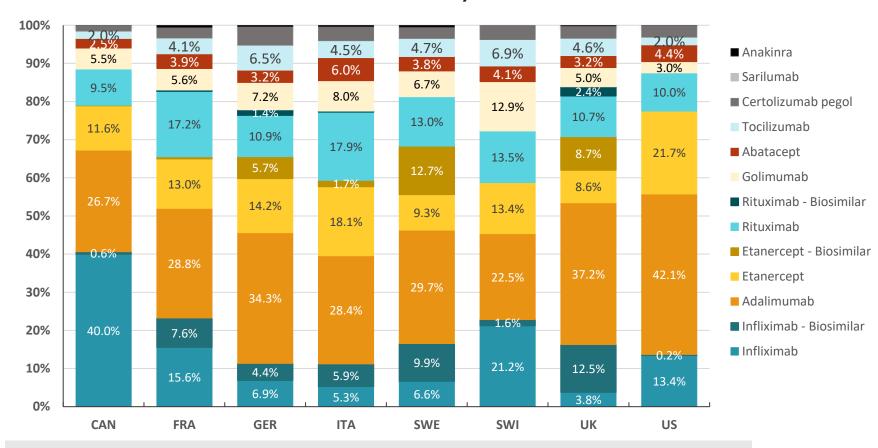


^{*}Manufacturer price levels.

[†]France, Germany, Italy, Sweden, Switzerland, the United Kingdom, and the United States.

Data source: MIDAS™ Database, prescription retail and hospital markets, 2010 to 2017, IQVIA. All rights reserved.

Figure 2.4 Distribution of sales by biologic DMARD Canada and the PMPRB7*, 2017



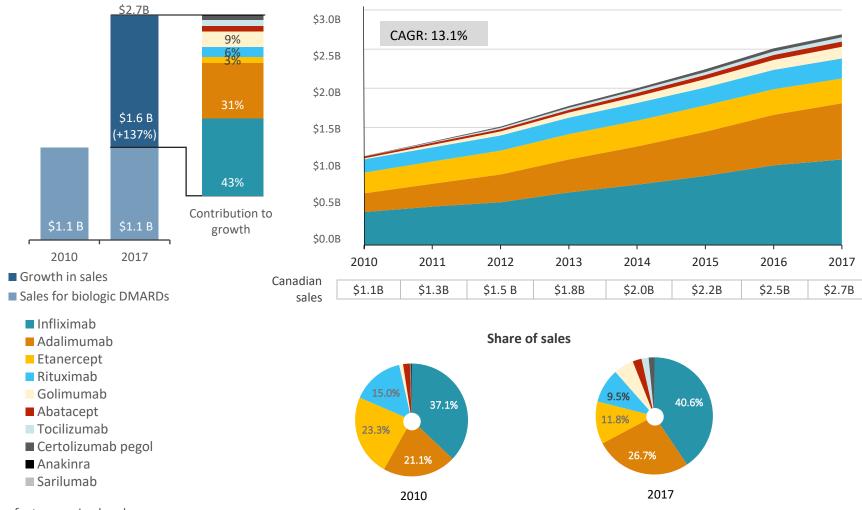
In 2017, the uptake of the biosimilar for infliximab in Canada was still relatively low (2.7% of all infliximab use) compared with the average (35.2%) and median (32.9%) uptake across all OECD countries.

Note: The OECD median for 2017 was originally reported as 35.2%. The text has subsequently been revised.

^{*}France, Germany, Italy, Sweden, Switzerland, the United Kingdom, and the United States.

Data source: MIDAS™ Database, prescription retail and hospital markets, 2017, IQVIA. All rights reserved.

Figure 3.1 Trends in Canadian sales* of biologic DMARDs by drug product, 2010 to 2017



^{*}Manufacturer price levels.

Data source: MIDAS™ Database, prescription retail and hospital markets, 2010 to 2017, IQVIA. All rights reserved.

Figure 3.6 Annual treatment costs in public drug plans by biologic DMARD, 2010 to 2017



^{*}Includes drug cost and excludes markup and dispensing cost; the costs reported reflect the amounts what were accepted for reimbursement by the drug plans.

Data source: Public drug plans: National Prescription Drug Utilization Information System Database, Canadian Institute for Health Information, 2010 to 2017. Private drug plans: IQVIA Private Pay Direct Drug Plan Database, 2010 to 2017.

[†]PMPRB Human Drug Advisory Panel.

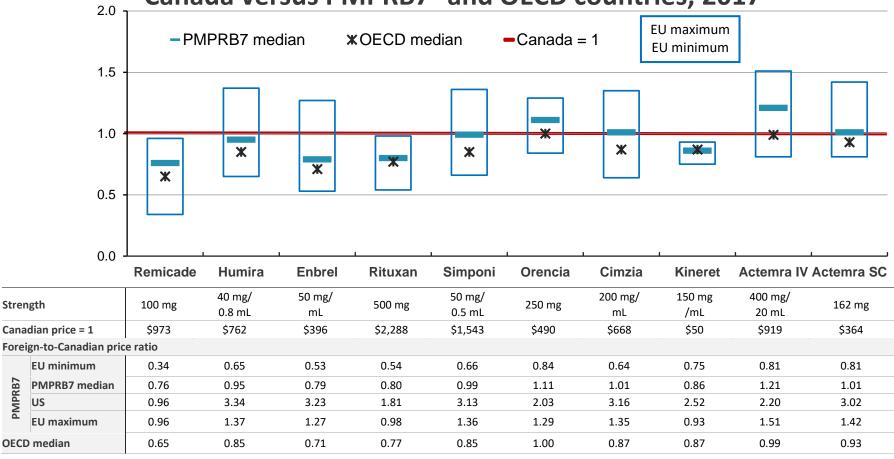
[‡]Association Québécoise des pharmaciens propriétaires.

Figure 4.1 Average foreign-to-Canadian price* ratios for biologic DMARDs, Canada versus PMPRB7[†] and OECD countries, 2017



^{*}Manufacturer price levels. †France, Germany, Italy, Sweden, Switzerland, the United Kingdom, and the United States. Data source: MIDAS™ Database, January—December 2017, IQVIA. All rights reserved.

Figure 4.2 Foreign-to-Canadian price* ratios by biologic DMARD, Canada versus PMPRB7[†] and OECD countries, 2017

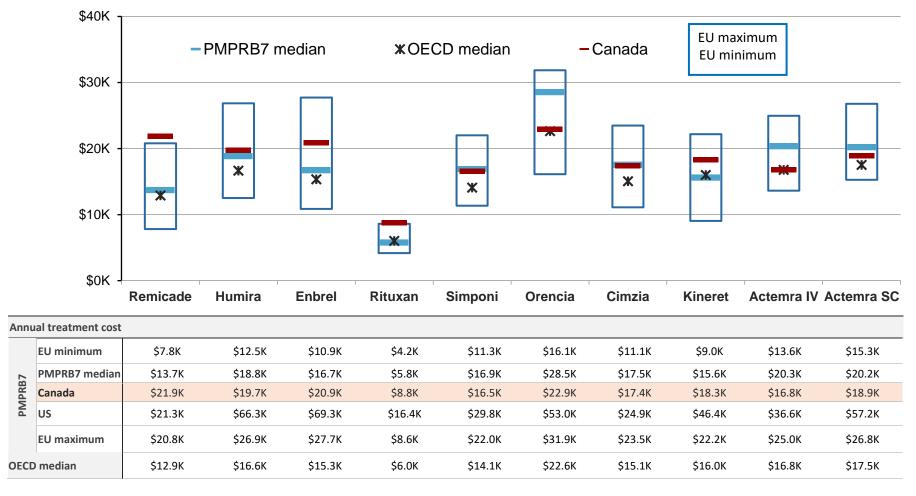


The 24% price differential between foreign and Canadian list prices for Remicade translates into \$262 million in drug sales in Canada in 2017.

Note: In Canada, Remicade infusions are almost exclusively delivered in manufacturer-sponsored infusion centers, while in other countries the infusions are generally delivered in hospitals.

^{*}Manufacturer price levels. †France, Germany, Italy, Sweden, Switzerland, the United Kingdom, and the United States. Data source: MIDAS™ Database, January−December 2017, IQVIA. All rights reserved.

Figure 4.3 Annual treatment costs for biologic DMARDs
Canada versus PMPRB7* and OECD countries, 2017

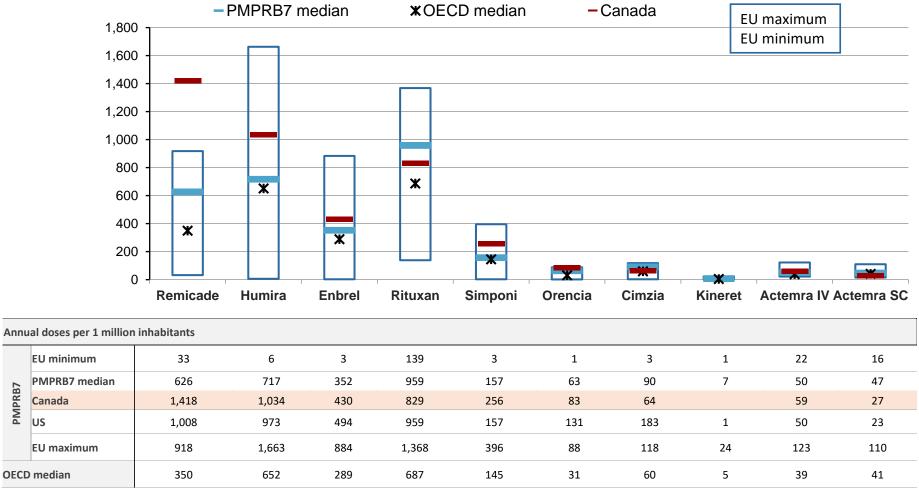


Note: Annual doses are based on PMPRB Human Drug Advisory Panel (HDAP) recommendations.

Data source: MIDAS™ Database, January–December 2017, IQVIA. All rights reserved.

^{*}France, Germany, Italy, Sweden, Switzerland, the United Kingdom, and the United States.

Figure 4.4 Rate of consumption* of biologic DMARDs
Canada versus PMPRB7† and OECD countries, 2017



^{*}Based on the annual maintenance dose determined by the PMPRB Human Drug Advisory Panel and reported per one million inhabitants per year. †France, Germany, Italy, Sweden, Switzerland, the United Kingdom, and the United States.

Data source: MIDAS™ Database, January–December 2017, IQVIA. All rights reserved.

THE NPDUIS INITIATIVE

The National Prescription Drug Utilization Information System (NPDUIS) is a research initiative established by federal, provincial and territorial Ministers of Health in September 2001. It is a partnership between the PMPRB and the Canadian Institute for Health Information (CIHI).

Pursuant to section 90 of the Patent Act, the PMPRB has the mandate to generate analysis that provides policy makers and public drug plan managers with critical information and intelligence on price, utilization and cost trends so that Canada's health care system has more comprehensive and accurate information on how drugs are being used and on sources of cost pressures.

The specific research priorities and methodologies for NPDUIS are established with the guidance of the NPDUIS Advisory Committee and reflect the priorities of the participating jurisdictions. The Advisory Committee is composed of representatives from public drug plans in British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, New Brunswick, Nova Scotia, Prince Edward Island, Newfoundland and Labrador, Yukon and Health Canada. It also includes observers from CIHI, the Canadian Agency for Drugs and Technologies in Health (CADTH), the Ministère de la Santé et des Services sociaux du Quebec and the pan-Canadian Pharmaceutical Alliance (pCPA) Office.

ABOUT THE PMPRB

The Patented Medicine Prices Review Board (PMPRB) is a respected public agency that makes a unique and valued contribution to sustainable spending on pharmaceuticals in Canada by:

- providing stakeholders with price, cost, and utilization information to help them make timely and knowledgeable pricing, purchasing, and reimbursement decisions; and
- acting as an effective check on the prices of patented medicines through the responsible and efficient use of its consumer protection powers.

ACKNOWLEDGEMENTS

The PMPRB would like to acknowledge the following staff for their contributions to this supplement:

- Tanya Potashnik Director, Policy and Economic Analysis
- Elena Lungu Manager, NPDUIS
- Karine Landry A/Manager, Statistics and Data Management
- Fatemeh Saberianranjbar Economic Analyst
- Jun Yu Data Systems Analyst
- Carol McKinley Publications Advisor
- Sarah Parker Junior Communications Officer