Moving towards Universal Coverage of Direct-Acting Antiviral Therapies for Hepatitis C Infection in Canada: An Environmental Scan of Canadian Provinces and International Jurisdictions

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Abstract - Background: Direct-acting antivirals (DAAs) have become the standard treatment for patients with chronic hepatitis C infections because of their high cure rates and favourable side effect profiles; however, access to this new class of agents has been limited because of its high cost. Public payers across Canada have implemented strict criteria for drug coverage in order to contain expenditures. Efforts have been made to improve access to medication for this high-burden condition. Recent coverage criteria across national and international jurisdictions have been compared.-**Methods:** Coverage criteria for several DAAs were reviewed by accessing Canadian provincial drug formularies. International coverage (e.g., Europe, Australia, United States, Egypt, India) was reviewed by searching available literature. **Results:** Coverage criteria vary across Canada. By April 2018, most Canadian jurisdictions had removed the stage 2 liver fibrosis requirement for patients to be eligible for coverage. Internationally, patients' access to DAAs differs significantly. Many jurisdictions restrict DAA prescribing authority to specialists and request documentation of chronic hepatitis C. In the US, considerable gaps of coverage are identifiable and patients might face significant financial burden to receive treatment. **Conclusion:** DAAs appear to be generally accessible through public drug plans in Canada compared to other countries.

INTRODUCTION

With the emergence of oral direct-acting antivirals (DAAs) such as Harvoni® (ledipasvir/sofosbuvir), Sovaldi® (sofosbuvir). and Epclusa[®] (sofosbuvir/velpatasvir), chronic hepatitis C (CHC) have gone from a once unsettling diagnosis to a curable disease. Approximately 71 million people globally are currently affected by CHC.¹ Hepatitis C virus (HCV) is a bloodborne virus which can cause acute and chronic disease; highest-risk factors for infection include intravenous drug use, needlestick injuries, blood transfusions received before 1992, and receiving unsterile tattoos or body piercings.² Acute HCV infection is often asymptomatic and rarely associated with life-threatening disease. While between 15 and 45% of infected persons spontaneously clear the virus within 6 months of infection without any treatment, the remaining 60-80% of persons develop CHC, which, if untreated, develops in 15-30% of the cases into cirrhosis of the liver within 20 years¹.

Treatment for CHC may vary according to virus genotype. In Canada, genotype 1 makes up about 65% of the patients infected with HCV (genotype 1a

accounts for 56% and genotype 1b for 33%, with approximately 10% unspecified or mixed genotype³)[.] genotype 2 makes up approximately 14% of HCV cases, while genotype 3 makes up roughly 20%.³ Genotypes 4, 5, 6, are quite rare, only accounting for <1% of the infections in Canada.³

DAAs either work to inhibit the NS5A protein, NS3/4A protease, or NS5B RNA polymerase.⁴ All of these mechanisms of action ultimately result in inhibiting processes that are necessary for viral replication.⁴ Not only do these therapies help control the spread of the virus, they also reduce the incidence of CHC complications such as liver cirrhosis and hepatocellular carcinoma.³ Before DAAs, the standard treatment for CHC was interferon (IFN) therapy. This consisted of low cure rates (<10%)⁵ and severe side effects including fatigue, headache, nausea, dizziness, depression.⁶ Interferon therapy was then combined with ribavirin which increased cure rates to 34-42%.⁵

Corresponding Author: Dr. Silvia Alessi-Severini, College of Pharmacy, Rady Faculty of Health Sciences University of Manitoba, 750 McDermot Avenue, Winnipeg, Manitoba, Canada, Email: Silvia.Alessi-Severini@umanitoba.ca The substitution of IFN with PEGylated IFN resulted in sustained virologic response (SVR) rates ranging from 45-80%.⁵ The first DAAs, VictrelisTM (boceprevir) and IncivekTM (telaprevir), were released in 2011, and showed cure rates of 70-80%.⁵ In 2014, the newer class of DAAs were released, all producing SVRs of >90%.^{7,8}

Compared to earlier interferon-containing regimens, not only do DAAs have increased SVR rates, they also have fewer side effects, making them much more tolerable courses of treatment. The only issue with these innovative drugs is the high price tag attached to them. As a result, both private and public insurers initially had to establish eligibility requirements that prioritized patients with liver damage, and those who had failed to respond to less costly treatments. Currently, criteria for coverage are changing globally, improving patients' access to DAAs. However, changes are occurring at different rates across the globe and access to treatment varies among countries. Previous treatments, liver fibrosis levels, degree of liver damage, or drug/alcohol use are still considered in coverage criteria. The purpose of this paper is to describe coverage criteria and cost differences across provinces and territories in Canada, as well as to explore how DAAs are covered in international jurisdictions.

METHODS

A systematic search of existing literature and Canadian provincial drug formularies was conducted between May and August 2018 to determine coverage criteria and prices of DAAs in various jurisdictions. Medications available on the Canadian market included Daklinza® (daclatasvir), Epclusa® (sofosbuvir/velpatasvir), Sunvepra[™] (asunaprevir), Galexos® (simeprevir). Harvoni® (ledipasvir/sofosbuvir), Sovaldi® (sofosbuvir). Holkira® Pak(dasabuvir, ombitasvir, paritaprevir, and ritonavir), Zepatier® (elbasvir/grazoprevir), Maviret[™] (glecaprevir/pibrentasvir), Technivie[™] (ombitasvir, paritaprevir, and ritonavir), and VoseviTM (sofosbuvir/velpatasvir/voxilaprevir). Information not available online was obtained from government agencies through phone conversations. Drugs not available in Canada, but available in other jurisdictions were also considered. A scan of current national and international media coverage on access to treatment, recommendations, and pricing regarding hepatitis C treatment was also performed

and discussed. The recommendations of the Canadian Drug Expert Committee (CDEC) (the national committee providing recommendations to provincial/territorial/federal drug programs in Canada) for reimbursement of each DAA were also analyzed.

RESULTS

International comparison

An economic analysis looking at new medications for hepatitis C published by Iyengar⁹ in 2016 compared the costs for 12-week courses of Sovaldi® (sofosbuvir) or Harvoni® (ledipasvir/sofosbuvir) in 30 different countries (including Japan, Poland, Greece, Turkey, United States, Brazil, Egypt). The study showed that prices for these medications varied significantly among countries and estimated that total cost of treating all patients with CHC would be at least a tenth of the current annual drug spending in all of the 30 countries.⁹ In certain countries where the prices of medications and disease prevalence is high, the total cost of treating all patients would be more than the current annual drug spending of all other medications.9 Another observation was that if a patient had to pay out of pocket for the medication, the total cost of a 12-week course of sofosbuvir alone was equivalent to one year or more of earnings from an average salary in 12 of the 30 countries included in the study.⁹ The overall conclusion of this article was that the new medications for hepatitis C were "globally unaffordable".9 As a consequence of the high prices, payers in high-income countries have been restricting coverage (e.g., United States), negotiating public deals, private discounts, and rebates with the manufacturer (e.g., France and Germany), or delaying reimbursement until a reasonable price has been negotiated (e.g., Australia).9 In low- and low-middle-income countries, where pricing negotiations have been undertaken or generic formulations of DAAs have been made available, access to treatment has vastly improved. The World Health Organization (WHO) published a progress report on Access to Hepatitis C Treatment focusing on low- and middle-income countries in March 2018. This publication described the steps that needed to be taken towards developing universal coverage for hepatitis C treatment, which included access to affordable treatment as the primary step as well as the need for strong government involvement in order to ensure that prevention measures and adequate screening protocols were implemented globally.¹⁰ In uppermiddle- and high-income countries, prices of DAAs remain high with access to generic formulations very limited. While the price of DAAs is still extreme in high-income countries, diagnostic services are more easily accessible compared to low-income countries.

Many factors play a role in determining the cost of newly approved medications. They include investment in research and development, production costs, efficacy, safety, ease of administration, duration of treatment, features of treatment comparators. innovation. international benchmarking, market size and market value.⁵ It has been shown that the cost of treating hepatitis C is incremental, but so is the cost of treating the complications that will arise later on if left untreated. In fact, while prevalence of hepatitis C is declining, probably due to better education on prevention and to the availability of DAAs, the CHC population is aging and the rate of complications is increasing. It has been estimated that, in Canada, direct costs associated with CHC (not including cost of antivirals) would increase from an estimated \$161 million in 2013 to more than \$258 million at the peak in 2032.¹¹

In June 2015, prices for sofosbuvir, daclatasvir, simeprevir. ledipasvir/sofosbuvir and ombitasvir/paritaprevir/ritonavir were surveyed in various jurisdictions in a study published in November 2015 entitled "Disparity in market prices for hepatitis C virus direct-acting drugs".¹² Thirtyeight countries were included: 14 were high-income countries, 9 were upper-middle-income countries, 11 were lower-middle income countries, and 4 were low-income countries. Classification was based on their GNI per capita (in U.S. dollars, converted from local currency).¹² The price per bottle of sofosbuvir was \$300 in India and Pakistan and \$20,590 in Switzerland. The cost per bottle of daclatasvir was \$175 in Egypt and \$14,899 in Germany. Simeprevir ranged from \$241per bottle in Egypt to \$14,865 in Australia.¹² Ledipasvir/sofosbuvir costs were \$400 per bottle in Egypt and Mongolia but \$24,890 per Germany.¹² bottle in Finally. ombitasvir/paritaprevir/ritonavir costs were \$400 per bottle in Egypt but \$20,215 per bottle in Switzerland.¹² This study concluded that prices of DAAs in low-income and middle-income countries were substantially lower compared to high-income countries, with few exceptions. This survey stressed the concept that these medications were unaffordable

for patients who have to pay out of pocket in highincome countries or if large populations require treatment paid by a government payer.¹²

Australia

Australia has established a cost-appropriate plan for the treatment of CHC. The Pharmaceutical Benefits Scheme (PBS) is a program that negotiates prices with manufacturers on behalf of the residents of Australia. On March 1, 2016, all HCV patients were able to access available DAAs through the PBS.¹³ The Australian government made a deal with PBS to pay 1 billion Australian dollars over 5 years to subsidise DAAs.¹³ A year after this change was made, a study entitled "Implementation of hepatitis C cure in Australia: one year on" was published in the Journal of Virus Eradication (Richmond & Wallace, $(2018)^{14}$. The conclusion was that the goal to eliminate HCV in Australia had become a realistic possibility.¹⁴ By making DAAs more accessible, the percentage of Australians being tested and diagnosed had also increased.¹⁴ As of 2018, approximately 227,306 people were living with HCV in Australia.¹³ Because of the increased access to DAAs through the PBS, an estimated 43,360 Australians (approximately 19% of the CHC population) were started on DAA therapy between March 2016 and June 2017.14

For Epclusa®, which is effective against all genotypes of HCV, patients were only required to pay \$6.30 if they were "concessional" patients and \$38.80 in all other cases.¹¹ A concessional patient is one who holds any of the following cards: Pensioner Concession Card, Australian Seniors Health Card, Health Care Card, or a Department of Veterans' Affairs (DVA) Gold, Orange, or White Card.¹⁵ DAAs available to patients through the PBS as of August 1, 2018 included the following: Daklinza®, Epclusa®, Harvoni®, Maviret®, Sovaldi®, Viekira-Pak®, Viekira-Pak® with RBV®, and Zepatier®.¹⁶

Australia has a program of unrestricted access to DAAs, the only criterion requires for the patient to be an adult diagnosed with CHC. This is in contrast to most countries that have programs of restricted access that would only allow those with advanced disease or those previously treated with other therapy to be eligible for coverage. In other countries, patients might be denied access if they are abusing drugs or alcohol. "The key to this universal access was the Australian government's capacity to negotiate much lower drug prices than in other highincome countries, following strong advocacy from the hepatitis C sector. For instance, Australia paid an estimated ten-fold lower price per patient treated in 2016 than did Germany."¹⁷

France and Scotland have a process similar to the Australian process that provides payment for all CHC patients with minimal co-payments.¹⁸

Europe

As of March 2018, approximately 36% of Europeans with CHC infection had been diagnosed, and approximately 5% had received treatment.¹⁹ The WHO has set a goal to eliminate hepatitis B and C as a public health threat by 2030. In order to reach that target, 90% of people living with CHC will have to be diagnosed and 80% of those diagnosed will have to be treated with DAAs.¹⁰ High-risk populations need to be tested in order to increase diagnoses and restrictions to DAA treatment need to be further removed worldwide in order to increase access to treatment to meet these targets.

Previous restrictions in Europe for DAA prescribing included prioritizing therapy for those who had liver damage and limiting prescribing to specialists (e.g. gastroenterologist, hepatologist, or infectious disease specialist) or physicians with experience treating hepatitis C.¹⁹ Certain restrictions for DAA coverage are slowly being removed across European jurisdictions, increasing access to DAAs.¹⁹

In February 2018, a study entitled "Restrictions for reimbursement of interferon-free direct acting antiviral drugs for CHC infection in Europe" (Marshall, 2018) was published; this study compared reimbursement criteria of DAAs in 35 European countries (which included those in the European Union, European Economic Area and Switzerland) between November 18, 2016 and August 1, 2017.²⁰ They concluded that 46% of countries in the study still had fibrosis requirements in place in order for patients to receive treatment and 94% of countries restricted prescribing to a specialist;²⁰ 83% of these European countries had no restrictions to limit treatment to those who were abstinent from drugs or alcohol.²⁰ Only 3% of countries had additional restrictions for those that were co-infected with HIV.²⁰ This study concluded that these findings had the potential of meeting WHO targets of eradicating HCV as a public health threat by 2030.²⁰ Since this study was completed, more European countries including Finland, Norway, Liechtenstein, Scotland,

Sweden and Switzerland have removed the fibrosis requirement for DAA treatment.¹⁹

Mongolia

Mongolia has the highest rate of liver cancer in the world due to the high prevalence of CHC. Approximately 6.8% of the Mongolian population is chronically infected with HCV.¹⁸ In efforts to improve treatment access, the Mongolian government has established one of the lowest prices for sofosbuvir/ledipasvir across the globe.¹⁸ Harvoni® (sofosbuvir/ledipasvir) and 4 generics are available in Mongolia for either US\$300 (brand) or US\$150 (generics).²¹

United States

There are approximately 3.2 million people living with CHC in the United States.²² With the new DAAs becoming available in 2014, the national US spending on hepatitis C drugs increased considerably. Spending on hepatitis C drugs in Medicare Part D jumped from \$283 million in 2013 to \$4.5 billion in 2014.²³ In 2016, an article entitled "Coverage for hepatitis C drugs in Medicare Part D" was published in NCBI which analyzed the spending of insurance plans on HCV drugs and estimated the total patients' out-of-pocket spending.²³ They concluded that "All Part D plans covered at least 1 recently introduced HCV drug, as of July 2015. Nearly all plans charged relatively high co-payments and required prior authorization for newer HCV drugs. For enrollees with no subsidy, the mean out-of-pocket spending ranged from \$6,297 to \$10,889. For enrollees with a low-income subsidy, out-of-pocket spending varied between \$10.80 and \$1,191".²³ The authors also found that at the time of the study, all Part D plans covered simeprevir and sofosbuvir and 98% of plans covered ledipasvir/sofosbuvir.23 Currently, CHC patients with or without subsidy still face sizable financial burdens in the United States.²³

The U.S. has outlined similar restrictions to treatment as Europe. In 2015, an environmental scan was published that analyzed the reimbursement restrictions for sofosbuvir in the United States between June 23, 2014 and December 7, 2014.²⁴ Criteria for coverage in all 50 states and the District of Columbia were assessed.²⁴ Out of the 42 states with known Medicaid reimbursement criteria for sofosbuvir, 74% of states limited treatment to those with fibrosis (METAVIR score F3) or cirrhosis (METAVIR score F4), 88% of states had restrictions

based on drug/alcohol use, and 67% of states restricted prescribing of DAAs to specialists.^{19,24}

An updated review of coverage criteria was published in 2017 (Conolly, J.) which analyzed restrictions to DAA treatment in the U.S. between August 20, 2016 and September 10, 2016.25 This study also analyzed all 50 states as well as the District of Columbia²⁵ and concluded that 15 states loosened fibrosis requirements compared to the results in 2014.^{19,25} As of 2016, only 22/51 (43%) states restricted coverage to patients with a METAVIR score of F3 or F4,²⁵ compared to 74% in 2014 as stated above;^{19,24} 34/51 (67%) restricted prescribing to gastroenterologists, hepatologists, or infectious diseases specialists, as it was in 2014. Some states (including Minnesota, New Hampshire, Montana, New York, Rhode Island, and Washington State) granted certain physicians with special training right to prescribe DAAs.²⁵ Twenty-nine (57%) states allowed patients with decompensated cirrhosis to receive coverage, but 5/51 (10%) of states excluded these patients from receiving coverage.²⁵ South Dakota is the only state that required a biopsy;²⁵ 20/51 (39%) of states required for all patients to be abstinent from drugs or alcohol in order to receive treatment.25

India

The Indian population accounts for approximately 12 million out of the 71 million of those infected globally.²⁶ Sofosbuvir, ledipasvir and daclatasvir are now available as generic alternatives in India, which has greatly improved access to treatment. These three generic medications are available to patients at the reasonable price of approximately \$250-\$300/bottle.²⁷

In January 2016, the lowest price for a 28-day of generic combination supply а of sofosbuvir/ledipasvir by Indian licensees of the originator company for the local Indian market was US\$205; by April 2016, it had dropped to US\$169.²⁸ The lowest price reported for a 28-day supply of sofosbuvir in January 2016 from a local generic producer was US\$15 in Pakistan.²⁸ Due to generic formulations, price reductions have been obtained, increasing the amount of people able to be treated.

Egypt

As of June 2017, Egypt was reported to be the country with the highest prevalence of hepatitis C in

the world at approximately 10%.²⁹ Upon initial marketing of new DAAs in 2014, Gilead Sciences priced the drug to the U.S. market at \$1,000/pill making a 12-week course cost \$84,000.³⁰ Gilead Sciences marketed sofosbuvir combined with ledipasvir (Harvoni®) with a 12-week treatment cost of \$94,500.¹¹ As of September 2016, after the Egyptian government negotiated prices with Gilead, Sovaldi® became available for \$250/bottle, and Epclusa® and Harvoni® for \$300/bottle.³¹

Other countries

According to the WHO, as of September 2016, daclatasvir has been made available for US\$120 in Morocco, US\$61 in India and down to US\$7 in Egypt.²⁸ Other countries such as Indonesia, Afghanistan, Kenya, South Africa, and Morocco also enjoy lower prices for Sovaldi®. With affordable drugs, many Egyptians have been able to receive treatment. In fact, between 2014 and 2017, 1.6 million Egyptians received treatment for HCV.³¹

Canada

In Canada, CDEC of the Canadian Agency for Drugs and Technologies in Health (CADTH) Common Drug Review makes reimbursement recommendations to provincial/territorial drug plans (excluding Québec), as well as federal drug programs, after a drug becomes available on the Canadian market. Each jurisdiction, however, makes the final decision on the coverage implementation for each medication.

Unlike other countries, Canada has no national strategy for eliminating hepatitis C as a public health threat.³² The Canadian Hemophilia Society describes the five aspects that a national plan must have for population-specific strategies, national targets with well-defined indicators, increased access to treatment, continuum of CHC services and most importantly, adequate resources.³²

What's in the media for Canada

The Canadian media is always highly interested in health care issues. Since the first oral DAAs, VictrelisTM (boceprevir) and IncivekTM (telaprevir), were approved in 2011, there have been countless news articles regarding hepatitis C treatment, screening, and prices of medications. Incivek was later discontinued from the Canadian market on January 1, 2015³³ and Victrelis was discontinued on March 31, 2016.³⁴ Reasons for discontinuation

included the need for adjunctive treatment with ribavirin and pegylated interferon, increasing costs of therapy and side effects^{3,33,34}, and the lower cure rates that they produced compared to the newer DAAs released in 2014 such as sofosbuvir.³ A Globe and Mail article published in February of 2017 details the negotiations that the pan-Canadian Pharmaceutical Alliance (pCPA) conducted with manufacturers on behalf of the public drug programs. Agreements have been reached with the makers of six hepatitis C medications. The three drug companies involved were Gilead Sciences Canada, Merck Canada, and Bristol-Myers Squibb Canada. The deal further reduced the price of Harvoni® and Sovaldi®, which were involved in an earlier price reduction agreement, and has more recently reduced prices of Daklinza®, Epclusa®, Sunvepra[™], and Zepatier ®.35

Provincial comparison

Criteria for coverage differ not only from country to country, but also across Canadian provinces and territories. Setting criteria for reimbursement presents an ethical issue. How can we choose to cover the cost of life-saving treatments for some and not others? Previously, most provincial jurisdictions only covered treatment for those with a certain fibrosis level or liver damage, but not for those with an otherwise healthy liver. Effective April 27, 2018 Alberta, Saskatchewan, Yukon, Manitoba, and the NIHB program (federal drug program covering First Nation populations) cover the cost of hepatitis C treatment without restriction.³⁶ Before this was implemented, patients in these provinces needed to demonstrate a liver fibrosis stage 2 (even though there was no clinical support for this limitation) or had another health issue such as HIV, hepatitis B virus or diabetes in order to be eligible for coverage.³⁶ Prince Edward Island, Ontario, British Columbia and Québec had previously lifted restrictions based on liver injury.36

CDEC recommendations for each DAA were relatively similar. Most recommendations restricted DAA prescribing privileges to a specialist (i.e., gastroenterologist, hepatologist, or infectious disease specialist) or a physician with experience treating hepatitis C and recommended a reduction in price. Details are reported in Appendix (Table 1- 12)

Table 1 describes which Canadian provinces andterritories cover DAAs. Exception drug status or

special authorization applications are required for all DAAs in Canada.

Table 2 describes the unit price of DAAs in Canadian jurisdictions. The cost of DAAs are similar across the provinces and territories with the exception of Holkira® Pak. From searching provincial drug formularies, the unit price for Holkira® Pak in most provinces was found to be around \$600, but in Alberta and New Brunswick, the unit price is approximately \$166.

Table 3 summarizes the recommendations forreimbursement by CDEC for each DAA.

Tables 4-12 describe the exact criteria that must be met in order for each DAA to be covered in each province/territory, the approved duration of therapy, and if adjunctive treatment is required. Across the provincial jurisdictions, certain similarities exist regarding coverage criteria. Most require that the treatment is prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or other prescriber experienced in treating hepatitis C, patients must have laboratory confirmed hepatitis C, and confirmed quantitative HCV RNA values within the last 6-12 months. The fibrosis requirement has been removed from all Canadian jurisdictions with the exception of Nova Scotia, New Brunswick, and Newfoundland & Labrador.³⁶ Alberta, British Columbia, Saskatchewan, Nunavut, and Northwest Territories have the widest range of DAAs available. Sunvepra[™] and Galexos[®] were included in this environmental scan even though they have been removed from the Canadian market, as some provinces still include them on their formulary. Both Maviret[™], approved in November 2015, and Technivie[™], approved in September 2017, are not yet covered by any Canadian jurisdiction. A recent study published in January 2018 showed that those treated with Maviret[™] for 8 weeks are showing very similar SVRs as those treated for 12 weeks.³⁷ Being able to reduce therapy from 12 weeks to 8 weeks while maintaining efficacy will not only reduce costs dramatically, but will also increase the amount of people able to be treated in resource-limited settings.³⁷

British Columbia

B.C. is one of the provinces with a wider range of availability for DAAs. Holkira® Pak was previously

covered by BC Pharmacare, but as of March 23, 2017, it is not covered for those starting a new therapy. As of March 13, 2018, the following DAAs are covered by BC Pharmacare: Harvoni®, Zepatier®, Epclusa®, SunvepraTM, VoseviTM, Sovaldi®, and Daklinza®.³⁸

Alberta, Saskatchewan, & Manitoba

These 3 provinces cover most DAAs, excluding Galexos® and Sunvepra[™]. Manitoba also excludes Vosevi[™] and Holkira® Pak.

Ontario

Ontario is one of the most progressive provinces in Canada regarding access to hepatitis C treatment. As of February 2018, the province of Ontario has decided to approve DAAs for all hepatitis C patients, regardless of disease severity.³⁹

Québec

Coverage excludes Holkira® Pak, Galexos®, and Sunvepra[™]. Québec is the only province that does not participate in CADTH's common drug review process. In Québec INESSS, (Institut national d'excellence en santé et en services sociaux) is responsible for providing Health and Technology Assessments only for Québec.⁴⁰

Nova Scotia

As of May 1, 2017, Nova Scotia Pharmacare will no longer approve new requests for Holkira® Pak. Nova Scotia still requires patients to have a fibrosis level of F2 or greater (Metavir scale or equivalent) in order to receive coverage.

Prince Edward Island

PEI provide a less liberal coverage compared to other Canadian provinces. Holkira® Pak is the only treatment approved other than PEGylated interferon and ribavirin.

New Brunswick

There is still a requirement to have a fibrosis level of F2 or greater (Metavir scale or equivalent) in order to receive treatment. New Brunswick formulary includes many DAAs for those who meet the requirements, only excluding SunvepraTM and Holkira[®] Pak.

Newfoundland & Labrador

The fibrosis level of F2 or greater (Metavir scale or equivalent) requirement still exists in Newfoundland

& Labrador. Similar to PEI, this province has limited options for DAAs (only Daklinza® and Zepatier®). Coverage is not available for residents of all genotypes: Daklinza® is only indicated for those with HCV genotype 1b or 3, and Zepatier® is only indicated for those with HCV genotype 1 or 4.

Yukon

The Yukon excludes coverage for SunvepraTM, Galexos \mathbb{R} , and VoseviTM.

Northwest Territories and Nunavut

These territories follow the criteria listed under NIHB coverage. There is a wide range of DAAs listed on the NIHB formulary, only excluding SunvepraTM and Galexos[®].

DISCUSSION

Goals for Hepatitis C Treatment

Many countries have set goals to eliminate HCV as a public health threat by a certain year. The National Health Service (NHS) in England set to eliminate HCV by 2025.41 Australia has set their goal for 2030.⁴² Although Canada has not yet put a strategy into place, they have recognized that policy issues must be addressed and have set a goal of treating 80% of cases by the year 2030.⁴³ Experts say these goals are attainable but it will require intense commitment and resources to accomplish them. As previously mentioned, the WHO has created a movement called "Eliminate Hepatitis" with the goal of eliminating hepatitis B and C by 2030 in 28 countries that make up 70% of hepatitis cases globally. The 28 countries involved in this movement include Egypt, India, China, Mongolia, Nigeria, Brazil, Pakistan, Indonesia, Myanmar, Uganda, Vietnam (these 11 countries make up 50% of the global burden of hepatitis B and C) and Cambodia, Cameroon, Colombia, Ethiopia, Georgia, Kvrgvzstan, Morocco, Nepal, Peru, Philippines, Sierra Leone, South Africa, Tanzania, Thailand, Ukraine, Uzbekistan, and Zimbabwe (these 17 countries have high prevalence and are working to develop national hepatitis responses).⁴⁴ In order to reach the 2030 target, 90% of people living with CHC will have to be diagnosed and 80% of those will have to be treated with DAAs. Preventive measures will also have to be put in place to reduce the number of new HCV infections.¹⁰

Global media

Even though these targets were set by WHO in 2016, only a few countries are currently on track to achieving them. Australia, Brazil, Egypt, Georgia, Germany, Iceland, Japan, the Netherlands and Qatar are countries that have been recognized as heading in the right direction to achieve these goals.⁴⁵ Egypt has been recognized for their immense efforts in increasing screening and therefore diagnosing, as well as creating generic forms of DAAs at reduced prices for their patients.⁴⁵ Brazil has recently opened up hepatitis B vaccination to the whole population, and is now reducing restrictions to DAAs, increasing hepatitis C treatment.⁴⁵ As previously discussed, Australia is making immense headway by having a program of unrestricted access and supplying DAAs at reduced prices.

Screening and Access to Treatment

Not all of the estimated 71 million people globally¹ affected by CHC are aware of their disease. Most are asymptomatic (and therefore patients undiagnosed) in the initial stages of the infection. Only when there is advanced liver damage, do patients begin to show symptoms and are more likely to be diagnosed.²² When initially infected with HCV, most patient's immune system is unable to eradicate the virus causing up to 80% of acute infections to progress to a chronic HCV infection, while the rest resolve on their own without treatment.²² Because of the efficacy and safety of the new DAAs, Canadian guidelines recommend one-time population-based screening for individuals born between 1945 and 1975 (as the majority of people with hepatitis C were born in these decades) or with risk factors (such as having received a blood transfusion prior to 1992, born or resided in HCV prevalent area, born to HCVinfected mother), and annual screening for patients with ongoing risk factors (such as IVDU, MSM, people with tattoos or body piercings done with unsterile instruments, people who have had unprotected sex with multiple partners). ⁴⁶ While the treatment is costly, screening is relatively inexpensive, and overall treatment of HCV is costeffective in terms of preventing the complications of HCV such as liver damage or cirrhosis⁴⁶. Patients with mild fibrosis should also be candidates for DAA treatment to improve quality of life⁴⁶. Canada's health care system has been defined as a "patchwork" because of the separate jurisdictional responsibilities for health in each province and territory, and at the federal level; the complexity of public and private drug coverage, and, in some cases, lack of coverage can in fact creates inequality of access to treatment.⁴³ Nevertheless, the pan-Canadian Pharmaceutical Alliance, which includes provinces and territories as well as the federal government, has been successfully working to negotiate medication prices with manufacturers with the objective of making access to the newest DAAs more affordable. As discussions regarding a national Pharmacare continue, it could be anticipated that further harmonization and pricing negotitions will take place.

In order to reach WHO's 2030 goal, those at risk need to be screened, and treated if necessary. In countries with high prevalence of CHC and very low infection control, it is recommended by WHO that the whole population be screened if resources allow.⁴⁷ In 2015, approximately 20% of patients with CHC knew of their diagnosis, and only 7.4% of those diagnosed received treatment.¹ Further government involvement in removing restrictions to treatment is necessary in order to meet WHO goals.

CONCLUSION

With 71 million people currently affected by CHC worldwide¹, access to DAA treatments must improve drastically in order to reach the global goal of eradicating hepatitis C as a public health threat by the year 2030. In low-income countries, screening and diagnostic protocols need to be implemented, especially since treatment is now affordable for those diagnosed as generics have been created or price reductions have been negotiated. In high-income countries, where screening and diagnosis efforts are already improving, the price of DAAs needs to be negotiated in order to provide treatment to patients at an affordable price.

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Appendix

Table 1: Direct-Acting Antivirals covered in Canadian jurisdictions as of August 20, 2018

	British Columbia	Alberta	Saskatchewan	Manitoba	Ontario	Quebec	Nova Scotia	PEI	New Brunswick	Newfoundland & Labrador	Yukon	NWT *NIHB	Nunavut *NIHB
Daklinza (Daclatasvir)	~	~	~	V	~	~	~		~	<i>v</i>	~	~	~
Epclusa (Sofosbuvir + Velpatasvir)	~	v	v	V	V	~	~		~		~	~	~
<i>Galexos</i> (Simeprevir) *Cancelled (Post-Market)		~				~			·				
Harvoni (Ledipasvir & Sofosbuvir)	~	V	V	~	V	~	~		~		V	~	~
Holkira Pak (Dasabuvir & Ombitasvir/Pari taprevir/ Ritonavir)		~	V		<i>v</i>			V			r	V	V
Sovaldi (Sofosbuvir)	~	V	V	~	V	~	~		v		~	~	~
Sunvepra (Asunaprevir) *Cancelled (Post-Market)										V			
Zepatier (Elbasvir & Grazoprevir)	~	V	~	~	V	~	~		v	~	V	~	~
Maviret (glecaprevir/pib rentasvir)													
<i>Technivie</i> (Ombitasvir/Par itaprevir/Ritona vir)													
Vosevi (Sofosbuvir/Vel	~	~	~	~	~	~			~			~	~

patasvir/Voxila							
previr)							

Table 2: Unit Price of Direct-Acting Antivirals in Canadian jurisdictions as of August 20, 2018

	British Columbia (Maximum Pharmacare Covers)	Alberta	Saskatchewan	Manitoba	Ontario	Quebec	Nova Scotia	PEI	New Brunswick	Newfoundland & Labrador	Yukon	NW Territories *NIHB	Nunavut *NIHB
Daklinza (Daclatasvir)	\$437.1428	\$428.5715	\$428.5714		\$428.5714	\$428.5714			\$428.5714	\$465	\$428.57		
Epclusa (Sofosbuvir + Velpatasvir)	\$728.5714	\$714.2857	\$714.2854		\$714.2857	\$714.2857			\$714.2857	\$775	\$714.29		
Galexos (Simeprevir) *Cancelled (Post-Market)		\$434.5500				\$434.5500				\$471.49			
Harvoni (Ledipasvir & Sofosbuvir)	\$813.5714	\$797.6190	\$797.6190		\$797.6190	\$797.6189			\$797.6189	\$865.42	\$797.6190		
Holkira Pak (Dasabuvir & Ombitasvir/Pari taprevir/ Ritonavir)		\$166.2500	\$665.00			\$665.00			\$166.2500		\$688.5200		
Sovaldi (Sofosbuvir)	\$667.8571	\$654.7619	\$654.7619		\$654.7619	\$654.7618			\$654.7618	\$710.42	\$654.7600		
Sunvepra (Asunaprevir) *Cancelled (Post-Market)													
Zepatier (Elbasvir & Grazoprevir)	\$680.2788	\$666.94	\$666.94		\$666.94	\$666.94			\$717.8671	\$723.63	\$666.9400		
<i>Maviret</i> (glecaprevir/pib rentasvir)													
Technivie (Ombitasvir/Par itaprevir/Ritona vir)													

Vosevi	\$728.5714	\$714.2857	\$714.2857	\$714.2857	\$714.2857		\$714.2857		
(Sofosbuvir/Vel									
patasvir/Voxila									
previr)									

Table 3: Reimbursement Recommendations for Hepatitis C Medications made by CADTH Canadian Drug Expert Committee (CDEC) as of August 20, 2018

Medication	Indication	Reimbursement Recommendation
Daklinza (Daclatasvir)	Chronic Hepatitis C Genotype 1, 2, or 3 Infection in Adults ³⁰	CDEC recommends that daclatasvir, in combination with sofosbuvir, be reimbursed for the treatment of patients with genotype 3 chronic hepatitis C, if the following criteria are met: -Patient does not have cirrhosis
		 -Prescribing restricted to hepatologists and physicians with experience treating patients with chronic hepatitis C -Drug plan cost of Tx course with DCV/SOF should not exceed the drug plan cost of a Tx course with SOF plus ribavirin. -Duration of treatment with DCV/SOF should be limited to 12 weeks.³⁰ Date of Final Recommendation: May 19, 2016
Sovaldi (Sofosbuvir)	Chronic Hepatitis C Infection ³¹	CDEC recommends that sofosbuvir be reimbursed for the Tx of chronic hepatitis C infection in adults with compensated liver disease, including cirrhosis, if the following criteria are met: -Patients with genotype 2 or 3 CHC infection, in combination with ribavirin -Patients with genotype 4 CHC infection in combination with pegylated-interferon and ribavirin: For patients who have not been previously treated with PR and do not have cirrhosis. ³¹ Date of Final Recommendation: May 18, 2016
Epclusa (Sofosbuvir + Velpatasvir)	Chronic Hepatitis C Virus Infection in Adults ³²	CDEC recommends that sofosbuvir/velpatasvir be reimbursed for the treatment of chronic hepatitis C infection, if the following criteria are met: -Treatment should be initiated by physicians with experience in the management of patients with CHC. -Reduced price. ³² Date of Final Recommendation: Oct. 26, 2016
Zepatier (Elbasvir & Grazoprevir)	Chronic Hepatitis C Genotypes 1, 3, or 4 Infection in Adults ³³	CDEC recommends that elbasvir/grazoprevir be reimbursed for the treatment of chronic hepatitis C virus genotypes 1, 3, and 4 infections in adults if the following criteria are met: -Treatment should be initiated by physicians with experience in the management of patients with CHC infection. -Substantial reduction in price. ³³ Date of Final Recommendation: May 19, 2016
Harvoni (Ledipasvir & Sofosbuvir)	Chronic Hepatitis C Virus Genotype 1 Infection in Adults ³⁴	CDEC recommends that ledipasvir/sofosbuvir be reimbursed for the treatment of chronic hepatitis C virus genotype 1 infection in adults if the following criteria are met: -Treatment should be initiated by physicians with experience in the management of CHC patients -Drug plan costs for ledipasvir/sofosbuvir should not exceed the drug plan costs of other interferon-free regimens for the treatment of CHC. ³⁴ Date of Final Recommendation: May 18, 2016
Holkira Pak (Dasabuvir & Ombitasvir/Paritaprevir/ Ritonavir)	Chronic Hepatitis C Virus Genotype 1 Infection in Adults ³⁵	CDEC recommends that ombitasvir/paritaprevir/ritonavir and dasabuvir (OMB/PAR/RIT + DAS) be reimbursed for the treatment of adults with genotype 1 chronic hepatitis C virus (CHC) infection, including those with compensated cirrhosis, if the following conditions are met: -Treatment should be initiated by physicians with experience in the management of CHC patients. -Drug plan costs for (OMB/PAR/RIT + DAS) should not exceed the drug plan costs of other interferon-free regimens for the treatment of CHC. ³⁵ Date of Final Recommendation: May 19, 2016
Sunvepra (Asunaprevir)	Chronic Hepatitis C Genotype 1 and 4 in	CDEC recommends that asunaprevir (ASV) be reimbursed for use in combination with daclatasvir in genotype 1b chronic hep C (CHC) infection, and in combination with DCV and pegylated interferon plus ribavirin in genotype 1 and 4 CHC, provided the following
*Cancelled Post-Market	Adults ³⁶	conditions are met:

		-The drug plan cost of a treatment course with asunaprevir combination treatment should provide cost savings when compared with the drug plan cost of a course of treatment with the least costly alternative comparable treatment option. -Treatment managed by a professional with expertise in the treatment of CHC infection. ³⁶ Date of Final Recommendation: July 20, 2016
Galexos (Simeprevir) *Cancelled Post-Market	Chronic Hepatitis C Genotype 1 Infection ³⁷	CDEC recommends that simeprevir, in combination with peginterferon alfa and ribavirin be listed for the treatment of CHC genotype 1 infection in adults with compensated liver disease, if the following clinical critiera and conditions are met:
		Clinical criteria: -Detectable levels of HCV RNA in the last six months -A fibrosis stage of F2, F3 or F4 -Patients with the NS3 Q80K polymorphism should not be treated with simeprevir
		Conditions: -Patients should have their HCV strain tested for NS3 Q80K polymorphism -Patients have NOT received a prior full therapeutic course of boceprevir or telaprevir -Reduced price – the drug plan cost for a course of therapy with simeprevir should not exceed the drug plan cost of other currently available direct-acting antiviral drugs. ³⁷ Date of Final Recommendation: June 18, 2014
Zepatier (Elbasvir/grazoprevir)	Chronic Hepatitis C Genotypes 1, 3, or 4 Infection in Adults ³⁸	CDEC recommends that elbasvir/grazoprevir be reimbursed for the treatment of chronic hepatitis C virus (CHC) genotypes 1, 3, and 4 infections in adults, if the following conditions are met: -Treatment should be initiated by physicians with experience in the management of patients with CHC infection -Substantial reduction in price. ³⁸ Date of Final Recommendation: May 19, 2016
Peginterferon Alfa-2a & Ribavirin	Chronic Hepatitis C in adult patients without cirrhosis and in adult patients with compensated cirrhosis ³⁹	CDEC recommends that the combination of Peginterferon Alfa-2a & Ribavirin be listed in a similar manner to other interferon plus ribavirin products used in the treatment of CHC. ³⁹ Date of Final Recommendation: October 14, 2004
<i>Maviret</i> (glecaprevir/pibrentasvir)	Chronic Hepatitis C virus infection ⁴⁰	CDEC recommends that glecaprevir/pibrentasvir be reimbursed for the treatment of adult patients with chronic hepatitis C virus (HCV) genotype 1, 2, 3, 4, 5, or 6 infection with or without compensated cirrhosis, including patients with HCV genotype 1 infection who were previously treated with either a regimen of NS5A inhibitor or with a NS3/4A protease inhibitor but not both classes of inhibitors if the following conditions are met: -The patient is under the care of a physician with experience in the diagnosis and management of HCV infection. -Drug plan cost for glecaprevir/pibrentasvir should not exceed the drug plan cost of treatment with the least costly direct-acting antiviral agent(s). (DAA). ⁴⁰ Date of Final Recommendation: January 23, 2018
Technivie (Ombitasvir/Paritaprevir/Ritonavir)	Chronic Hepatitis C virus genotype 4 infection ⁴¹	CDEC recommends that ombitasvir/paritaprevir/ritonavir be listed, in combination with ribavirin for the treatment of adults with genotype 4 chronic hepatitis C (CHC) virus infection without cirrhosis who are either treatment-naïve or were previously treated with peginterferon and ribavirin, if the following conditions are met: -Reduction in price to improve the cost-effectiveness to a level acceptable to the CADTH Common Drug Review (CDR)-participating drug plans -Under the care of a physician with expertise in the diagnosis and treatment of CHC. ⁴¹ Date of Final Recommendation: March 18, 2016
Vosevi (Sofosbuvir/Velpatasvir/Voxilaprevir)	Chronic Hepatitis C virus infection ⁴²	CDEC recommends that sofosbuvir/velpatasvir/voxilaprevir be reimbursed for the treatment of adult patients with chronic hepatitis C virus (HCV) infection, without cirrhosis or with compensated cirrhosis who have: genotype 1, 2, 3, 4, 5, or 6 infection and have previously been treated with an HCV regimen containing an NS5A inhibitor; or genotype 1, 2, 3, or 4 infection and have been previously treated with an HCV regimen containing SOF without an NS5A inhibitor, if the following conditions are met: -The patient is under the care of a physician with experience in the diagnosis and management of HCV infection. -Drug plan cost for sofosbuvir/velpatasvir/voxilaprevir should not exceed the drug plan cost for sofosbuvir/velpatasvir. ⁴² Date of Final Recommendation: January 23, 2018

Province	overage Criteria as of August 20, 2018 Coverage Criteria	Approved Duration
British Columbia	For the treatment of treatment-naïve or treatment-experienced adult patients with CHC genotype 3 infection who meet ALL the following critiera:	Treatment-naïve and treatment- experienced with no cirrhosis: 12 weeks in combination with sofosbuvir
	 a) Fibrosis stage of F0 or greater (Metavir scale or equivalent) b) Treatment is prescribed by a hepatologist, a gastroenterologist, an infectious disease specialist, or other physician experienced with treating hepatitis C c) Laboratory confirmed hepatitis C genotype 3 d) Laboratory confirmed quantitative HCV RNA test must be done within the previous 12 months e) Patient is NOT currently being treated with another hepatitis C direct-acting antiviral drug (with the exception of sofosbuvir) 	Treatment-naïve and treatment- experienced with compensated cirrhosis or decompensated cirrhosis OR Treatment-naïve and treatment- experienced liver transplant recipients with no cirrhosis or with compensated cirrhosis: 12 weeks in combination with sofosbuvir and RBV
Alberta	 For use as combination therapy with asunaprevir or sofosbuvir for treatment-naive or treatment-experienced adult patients with chronic hepatitis C infection who meet all of the following criteria: Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or a designated prescriber; Laboratory confirmed hepatitis C infection with genotype 3 Laboratory confirmed quantitative HCV RNA value within the last 6 months Fibrosis stage of F0 or greater (Metavir scale or equivalent) 	Treatment-naïve or treatment- experienced genotype 3, without cirrhosis: 12 weeks in combination with sofosbuvir
	Exclusion criteria: -Patients currently being treated with another HCV antiviral agent -Retreatment for failure or re-infection in patients who have received an adequate prior course of an HCV direct-acting antiviral drug regimen may be considered on an exceptional case-by-case basis.	
Saskatchewan	 For use as combination therapy with sofosbuvir, alone or with sofosbuvir for treatment-naive or treatment-experienced adult patients with chronic hepatitis C infection who meet all of the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or other prescriber experienced in treating hepatitis C II) Laboratory confirmed hepatitis C infection with genotype 3; III) Laboratory confirmed quantitative HCV RNA value within the 	Treatment naïve or treatment experienced without cirrhosis: 12 weeks in combination with sofosbuvir Treatment-naïve or treatment- experienced with compensated cirrhosis or decompensated cirrhosis or post-liver transplant: 12 weeks in
	last 6 months	combination with sofosbuvir and ribavirin
Manitoba	 For use as combination therapy with sofosbuvir (Sovaldi) for treatment naïve/experienced adult patients with chronic hepatitis C infection who meet ALL of the following criteria: Treatment is prescribed by a hepatologist, gastroenterologist, or infectious disease specialist Laboratory confirmed hepatitis C infection with genotype 3 Patient has a quantitative HCV RNA value within the last 6 months Fibrosis stage (2) of F0 or greater (Metavir scale or equivalent) (As of April 2018) 	Treatment regimens for Daklinza for genotype 3 and duration of therapy reimbursed: -Genotype 3 patient population duration of therapy: -Treatment-naïve or treatment- experienced without cirrhosis – 12 weeks in combination with sofosbuvir -Treatment-naïve or treatment- experienced with compensated cirrhosis (5); or decompensated cirrhosis (5); or post-liver transplant – 12 weeks in combination with sofosbuvir and ribavirin
		*Retreatment for failure or re- infection in patients who have received an adequate prior course of

Table 4: Daklinza Coverage Criteria as of August 20, 2018

		direct-acting antiviral will be considered on a case-by-case basis.
Ontario	For use as combination therapy with sofosbuvir, alone or with sofosbuvir for treatment-naive or treatment-experienced adult patients with chronic hepatitis C infection who meet all of the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or other prescriber experienced in treating hepatitis C II) Laboratory confirmed hepatitis C infection with genotype 3; III) Laboratory confirmed quantitative HCV RNA value within the last 6 months	Treatment-naïve or treatment- experienced without cirrhosis: 12 weeks in combination with sofosbuvir (Sovaldi) Treatment-naïve or treatment- experienced with compensated cirrhosis or decompensated cirrhosis or post liver transplant: 12 weeks in combination with sofosbuvir (Sovaldi) and ribavirin (Ibavyr) *Retreatment is not funded. Retreatment for failure or re-infection in patients who have received an adequate prior course of direct-acting antiviral will be considered on a case- by case basis through the Exceptional Access Program.
Quebec	In association with sofosbuvir, for treatment of persons suffering from chronic hepatitis C genotype 3 without cirrhosis: -Who have a contraindication or a serious intolerance to pegylated interferon alfa or ribavirin Or -Who have experienced a therapeutic failure with an association	12 weeks
Nova Scotia	 For treatment-naïve or treatment-experienced adult patients with chronic hepatitis C virus (HCV) who meet the following criteria: i) Must be prescribed by a hepatologist, gastroenterologist, or infectious disease specialist (or other physician experienced in treating a patient with hepatitis C infection) ii) Lab-confirmed hepatitis C genotype 3 iii) Quantitative HCV RNA value within the last 6 months iv) Fibrosis stage must be provided 	Without cirrhosis: 12 weeks in combination with sofosbuvir With compensated or decompensated cirrhosis, or post-liver transplant with no cirrhosis or with compensated cirrhosis: 12 weeks in combination with sofosbuvir and ribavirin
PEI	N/A	N/A
New Brunswick	For treatment-naïve or treatment-experienced adult patients with chronic hepatitis C virus (HCV) who meet the following criteria: -Must be prescribed by a hepatologist, gastroenterologist, or infectious disease specialist (or other physician experienced in treating a patient with hepatitis C infection) -Lab-confirmed hepatitis C genotype 3 -Quantitative HCV RNA value within the last 6 months -Fibrosis stage	Without cirrhosis: 12 weeks in combination with sofosbuvir With compensated or decompensated cirrhosis or post-liver transplant with no cirrhosis or with compensated cirrhosis: 12 weeks in combination with sofosbuvir and ribavirin
Newfoundland & Labrador	For treatment-naïve or treatment-experienced adult patients with chronic hepatitis C virus (HCV) who meet the following criteria: -Prescribed by a hepatologist, gastroenterologist, or infectious disease specialist (or other prescribers with expertise in the treatment of hepatitis C infection) -Lab-confirmed hepatitis C genotype 1b and 3 -Quantitative HCV RNA value within the last 6 months -Fibrosis stage F2 or greater (Metavir scale or equivalent) or Fibrosis stage less than F2 at least one of the following poor prognostic factors: -Co-infected with HIV or hepatitis B virus -Post-organ transplant (liver and/or non-liver transplant) -Extra-hepatic manifestations	Genotype 1b: -Without cirrhosis or with compensated cirrhosis: 24 weeks in combination with asunaprevir Genotype 3: -Without cirrhosis: 12 weeks in combination with sofosbuvir -With compensated or decompensated cirrhosis or post-liver transplant with no cirrhosis or with compensated cirrhosis: 12 weeks in combination with sofosbuvir and ribavirin

	-Chronic kidney disease stage 3, 4, or 5 as defined by the National	
	Kidney Foundation Kidney Disease Outcomes Quality Initiative	
	-Co-existent liver disease with diagnostic evidence of fatty liver	
	disease (e.g., non-alcoholic steatohepatitis)	
	-Patients with diabetes being treated with antihyperglycemic	
	medications	
	-Woman of childbearing age who is planning a pregnancy within	
	the next 12 months	
Yukon	For treatment-naïve or treatment-experienced* adult patients with	N/A
	chronic hepatitis C infection at any fibrosis stage (F0-F4) who meet	
	ALL of the following criteria:	
	i) Treatment is prescribed by a hepatologist, infectious disease	
	specialist or gastroenterologist	
	ii) Laboratory confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6,	
	or mixed genotype	
	iii) Laboratory confirmed quantitative HCV RNA level taken	
	in the last 12 months	
	Retreatment for failure or re-infection in patients who have received	
	an adequate prior course of direct-acting antivirals will be considered	
	on a case-by-case basis under the formulary exception process.	
	on a case by case basis ander the formating exception process.	
	All exception requests should include:	
	-Lab-confirmed hepatitis C genotype	
	-Quantitative HCV RNA value within the last 12 months	
	-Fibrosis stage	
	-1 1010sis stage	
	*Treatment-experienced is defined as those who have been previously	
	treated with a PegIFN/RBV regimen (including regimens containing	
	an HCV protease inhibitor), and have not experienced an adequate	
	response.	
NWT, Nunavut	For adult patients with chronic hepatitis C infection at any fibrosis	N/A
*NIHB	stage (F0-F4) who meet ALL of the following criteria:	IV/A
INIID	I) Prescribed by a hepatologist, gastroenterologist, infectious disease	
	specialist, or other prescriber experienced in treating hepatitis C	
	I) Laboratory confirmed hepatitis C infection with genotype 1, 2, 3,	
	4, 5, 6, or mixed genotype;	
	III) Laboratory confirmed quantitative HCV RNA value within the	
	last 12 months	
	last 12 monuis	
	*Datrastment for failure or reinfection in national who have received	
	*Retreatment for failure or re-infection in patients who have received	
	an adequate prior course of direct-acting antivirals will be considered	
	on a case-by-case basis.	

Province	overage Criteria as of August 20, 2018 Coverage Criteria	Approved Duration
British Columbia	 For the treatment of treatment-naïve or treatment-experienced adult patients with CHC genotype 1, 2, 3, 4, 5, 6, or mixed genotype infection who meet ALL of the following criteria: a) Fibrosis stage of F0 or greater (Metavir scale or equivalent). Special Authority requests for patients must include a fibrosis score test performed in the last 12 months. Acceptable methods include liver biopsy, transient elastography (FibroScan) and serum biomarker panels (AST-to-Platelet Ratio Index (APRI)) either alone or in combination. Supporting documentation must be submitted. b) Treatment is prescribed by a hepatologist, a gastroenterologist, an infectious disease specialist, or other physician experienced with treating hepatitis C. c) Laboratory confirmed quantitative HCV RNA test must be done within the previous 12 months 	Treatment-naïve and treatment- experienced with no cirrhosis or with compensated cirrhosis: 12 weeks Treatment-naïve and treatment- experienced with decompensated cirrhosis: 12 weeks with RBV
Alberta, NWT & Nunavut	For adult patients with chronic hepatitis C infection at any fibrosis stage (F0-F4) who meet ALL of the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or other prescriber experienced in treating hepatitis C II) Laboratory confirmed hepatitis C infection with genotype 1, 2, 3, 4, 5, 6, or mixed genotype; III) Laboratory confirmed quantitative HCV RNA value within the last 6-12 months *Retreatment for failure or re-infection in patients who have received an adequate prior course of direct-acting antivirals will be considered	Alberta: -Treatment-naive or treatment- experienced, without cirrhosis or with compensated cirrhosis: 12 weeks - Treatment-naive or treatment- experienced, with decompensated cirrhosis: 12 weeks in combination with ribavirin
Saskatchewan	 on a case-by-case basis. For use as monotherapy or as combination therapy with ribavirin for treatment-naïve or treatment-experienced adult patients with chronic hepatitis C infection according to the following criteria: Treatment is prescribed by a hepatologist, gastroenterologist, an infectious disease specialist or other prescriber experienced in treatment hepatitis C Laboratory-confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6, or mixed genotypes Laboratory-confirmed quantitative HCV RNA value within the last 6 months 	Treatment-naïve or treatment- experienced without cirrhosis or with compensated cirrhosis: 12 weeks Treatment-naïve or treatment- experienced with decompensated cirrhosis: 12 weeks in combination with ribavirin
Manitoba	 For treatment-naïve or treatment-experienced adult patients with chronic hepatitis C genotype 1, 2, 3, 4, 5, 6, or mixed genotypes infection who meet ALL of the following: Treatment is prescribed by a hepatologist, gastroenterologist, or infectious disease specialist Laboratory confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6, or mixed genotypes Patient has a quantitative HCV RNA value within the last 6 months Fibrosis (2) stage of F0 or greater Metavir scale or equivalent (as of April 2018) 	Duration of therapy reimbursed: Genotype 1, 2, 3, 4, 5, 6 or mixed patient population duration of therapy: -Treatment-naïve or treatment- experienced non-cirrhotic or compensated cirrhosis (5) – 12 weeks -Treatment-naïve or treatment- experienced with decompensated cirrhosis (5) – 12 weeks in combination with ribavirin *Retreatment for failure or re-infection in patients who have received an adequate prior course of direct-acting antiviral will be considered on a case- by case basis
Ontario	For treatment-naive or treatment-experienced adult patients with chronic hepatitis C infection who meet all of the following criteria:	by-case basis -Treatment-naive or treatment- experienced, without cirrhosis or with

 Table 5: Epclusa Coverage Criteria as of August 20, 2018

Quebec	 I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or a designated prescriber; II) Laboratory confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6 or mixed genotypes; III) Laboratory confirmed quantitative HCV RNA value within the last 6 months In association with ribavirin, for treatment of persons suffering from chronic hepatitis C with decompensated cirrhosis OR As monotherapy, for treatment of persons suffering from chronic 	compensated cirrhosis: 12 weeks - Treatment-naive or treatment- experienced, with decompensated cirrhosis: 12 weeks in combination with ribavirin (Ibavyr) Those with decompensated cirrhosis: 12 weeks in association with ribavirin Those without decompensated cirrhosis:
	hepatitis C without decompensated cirrhosis	12 weeks as monotherapy
Nova Scotia	For treatment-naïve or treatment-experienced adult patients with chronic hepatitis C virus (HCV) who meet the following criteria: -Must be prescribed by a hepatologist, gastroenterologist, or infectious disease specialist (or other physician experienced in treating a patient with hepatitis C infection) -Lab-confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6, or mixed genotypes -Quantitative HCV RNA value within the last 6 months -Fibrosis stage must be provided	-Patients with compensated cirrhosis or without cirrhosis: 12 weeks -Patients with decompensated cirrhosis: 12 weeks in combination with ribavirin
PEI, Newfoundland & Labrador	N/A	N/A
New Brunswick	For treatment-naïve or treatment-experienced adult patients with chronic hepatitis C virus (HCV) who meet the following criteria: For treatment-naïve or treatment-experienced adult patients with chronic hepatitis C virus (HCV) who meet the following criteria: -Must be prescribed by a hepatologist, gastroenterologist, or infectious disease specialist (or other physician experienced in treating a patient with hepatitis C infection) -Lab-confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6 or mixed genotypes -Quantitative HCV RNA value within the last 6 months -Fibrosis stage	Patients with compensated cirrhosis or without cirrhosis: 12 weeks Patients with decompensated cirrhosis: 12 weeks in combination with ribavirin
Yukon	 For treatment-naïve or treatment-experienced* adult patients with chronic hepatitis C infection at any fibrosis stage (F0-F4) who meet ALL of the following criteria: Treatment is prescribed by a hepatologist, infectious disease specialist or gastroenterologist Laboratory confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6, or mixed genotype Laboratory confirmed quantitative HCV RNA level taken in the last 12 months Retreatment for failure or re-infection in patients who have received an adequate prior course of direct-acting antivirals will be considered on a case-by-case basis under the formulary exception process. All exception requests should include: Lab-confirmed hepatitis C genotype Quantitative HCV RNA value within the last 12 months Fibrosis stage *Treatment-experienced is defined as those who have been previously treated with a PegIFN/RBV regimen (including regimens containing an HCV protease inhibitor), and have not experienced an adequate response. 	N/A

 Table 6: Sunvepra Coverage Criteria as of August 20, 2018

Province	Coverage Criteria	Approved Duration
Newfoundland & Labrador	For treatment-naïve or treatment-experienced adult patients with chronic hepatitis C virus (HCV) who meet the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or a designated prescriber; II) Laboratory confirmed hepatitis C infection with genotype 1b; III) Laboratory confirmed quantitative HCV RNA value within the last 6 months; IV) Fibrosis stage of F2 or greater (Metavir scale or equivalent); OR Fibrosis stage less than F2 and at least one of the following poor prognostic factors: -Co-infected with HIV or HBV -Post-organ transplant (liver and/or non-liver transplant) -Extra-hepatic manifestations -Chronic kidney disease stage 3, 4, or 5 as defined by the National Kidney Foundation Kidney Disease Outcomes Quality Initiative -Co-existent liver disease with diagnostic evidence of fatty liver disease (e.g. non-alcoholic steatohepatitis) -Patients with diabetes being treated with antihyperglycemic medications -Woman of childbearing age who is planning a pregnancy within the next 12 months	Without cirrhosis or with compensated cirrhosis: 24 weeks in combination with daclatasvir
British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Quebec, Nova Scotia, PEI, New Brunswick, Yukon, NWT & Nunavut	N/A	N/A

Table 7: Galexos Coverage Criteria as of August 20, 2018

Province	Coverage Criteria	Approved Duration
Province Alberta	For use in combination with peginterferon alfa/ribavirin, for the treatment of genotype 1 chronic hepatitis C (CHC) in adults with compensated liver disease and detectable levels of hepatitis C virus (HCV) RNA in the last 6 months, and a fibrosis stage of F2, F3, or F4 and; who have either not received previous therapy with peginterferon alfa/ribavirin or have failed previous therapy with peginterferon alfa/ribavirin following prior null response, partial response or relapse. Cover cannot be considered for: -Treatment of CHC other than genotype 1 -Treatment as monotherapy -patients with the NS3 Q80K polymorphism -Patients with decompensated liver disease, including a history of the presence of clinical ascites, bleeding varices or hepatic encephalopathy -Patients who previously received a prior full therapeutic course with an HCV NS3/4A protease inhibitor -Extensions beyond the stated duration Failure of previous therapy with peginterferon alfa/ribavirin is	Approved Duration Initial approval period: -All patients may receive an initial approval for 6 weeks of treatment coverage (6 weeks of simeprevir in combination with peginterferon alfa/ribavirin) Renewal approval periods: -Total of 12-48 weeks treatment duration depending on HCV RNA levels
	Failure of previous therapy with peginterferon alfa/ribavirin is defined as: -Prior null response: less than 2 logs (100 fold) reduction in HCV RNA after 12 weeks of treatment	

	-Partial response: a decrease in HCV RNA viral load greater than or equal to 2 logs (100 fold) by treatment week 12, but failure to achieve a sustained virologic response (SVR) -Relapse: undetectable HCV RNA at end of previous therapy with subsequently detectable HCV RNA	
	*This was effective April 1, 2018, but as of April 27, 2018, Alberta has removed the fibrosis requirement in order for DAA coverage.	
Quebec	In association with ribavirin and pegylated interferon alfa for treatment of persons suffering from chronic hepatitis C genotype 1, without a Q80K mutation, who are not HIV-1 infected, and who have already experienced a therapeutic failure with a combination of ribavirin / pegylated interferon alfa.	Authorization is granted for 12 weeks The total duration of treatment, including the concomitant and subsequent taking of the combination of ribavirin/pegylated interferon alfa, will be 48 weeks if the viral load (HCV-RNA) is undetectable on treatment week 24.
New Brunswick	For the treatment of chronic hepatitis C genotype 1 infection in adult patients with compensated liver disease, in combination with peginterferon alpha and RBV when all of the following criteria are met:	Only one course of treatment (for up to 12 weeks duration) will be approved
	 i) Detectable levels of HCV RNA in the last 6 months ii) A fibrosis stage of F2, F3, or F4 (Metavir score or equivalent) 	
	Exclusion Criteria:	
	 Patients with the NS3 Q80K polymorphism should not be treated with simeprevir Patients who have received a prior full therapeutic course of boceprevir or telaprevir in combination with PegIFN/RBV and did not receive an adequate response Decompensated liver disease Patients less than 18 years old Patients who have had prior organ transplant including liver transplant Simeprevir in combination with sofosbuvir 	
British Columbia, Saskatchewan, Manitoba, Ontario, Nova Scotia, PEI, Newfoundland & Labrador, Yukon, NWT & Nunavut	N/A	N/A

 Table 8: Harvoni Coverage Criteria as of August 20, 2018

Province	Coverage Criteria	Approved Duration
British Columbia	 For the treatment of treatment-naïve or treatment-experienced adult patients with CHC genotype 1 infection who meet ALL the following criteria: a) Fibrosis stage of F0 or greater (Metavir scale or equivalent) Special Authority requests for patients must include a fibrosis score test performed in the last 12 months. Acceptable methods include liver biopsy, transient elastography (FibroScan) and serum biomarker panels (AST-to-Platelet Ratio Index (APRI)) either alone or in combination. Supporting documentation must be submitted. b) Treatment is prescribed by a hepatologist, a gastroenterologist, an infectious disease specialist, or other physicians experienced with treating hepatitis C c) Laboratory confirmed quantitative HCV RNA test must be done within the previous 12 months Patient is NOT currently being treated with another hepatitis C direct-acting antiviral drug 	Treatment-naïve with no cirrhosis, who have pre-treatment HCV RNA level < 6 million IU/mL: 8 or 12 weeks Treatment naïve with no cirrhosis, who have pre-treatment HCV RNA level ≥ 6 million IU/mL: 12 weeks Treatment-naïve with compensated cirrhosis: 12 weeks Treatment-experienced with no cirrhosis: 12 weeks Treatment-naïve or treatment- experienced HCV/HIV-1 co-infected with no cirrhosis or with compensated cirrhosis: 12 weeks Treatment-experienced with compensated cirrhosis: 24 weeks Treatment-naïve and treatment- experienced with decompensated cirrhosis: 12 weeks with RBV Treatment-naïve and treatment- experienced liver transplant recipients with no cirrhosis or with compensated cirrhosis: 12 weeks with RBV
Alberta	For treatment-naive or treatment-experienced adult patients with chronic hepatitis C infection who meet all of the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or a designated prescriber; II) Laboratory confirmed hepatitis C genotype 1; III) Laboratory confirmed quantitative HCV RNA value within the last 6 months IV) Fibrosis stage of F0 or greater (Metavir scale or equivalent); Exclusion criteria for Alberta: - Patients currently being treated with another HCV antiviral agent - Retreatment for failure or re-infection in patients who have received an adequate prior course of an HCV direct-acting antiviral drug regimen may be considered on an exceptional case-by-case basis.	 Treatment-naive, without cirrhosis, recent quantitative hepatitis C viral load less than 6 M IU/mL: 8 weeks or 12 weeks (3) Treatment-naive, without cirrhosis, viral load ≥ 6 M IU/mL: 12 weeks Treatment-naive, with compensated cirrhosis (4): 12 weeks Treatment-experienced, without cirrhosis: 12 weeks Treatment-naive or treatment-experienced with decompensated cirrhosis (5): 12 weeks in combination with ribavirin Treatment-naive or treatment-experienced liver transplant recipients, without cirrhosis or with compensated cirrhosis (4): 12 weeks in combination with ribavirin
Saskatchewan	For treatment-naive or treatment-experienced adult patients with chronic hepatitis C infection who meet all of the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or a designated prescriber; II) Laboratory confirmed hepatitis C genotype 1; III) Laboratory confirmed quantitative HCV RNA value within the last 6 months	weeks in combination with ribavirin Treatment-naïve, non-cirrhotic, viral load < 6M IU/mL: 8 weeks or 12 weeks (*For this population cohort, evidence has shown that the SVR rates for the 8-week and 12-week treatment regimens are similar. Treatment regimens of up to 12 weeks are recognized as a Health Canada approved treatment option. Patients

		may be considered for 12 weeks of coverage if they have borderline or severe fibrosis or if they are co- infected with HIV.) Treatment-naïve, non-cirrhotic, viral load ≥ 6M IU/mL OR treatment-naïve, cirrhotic OR treatment-experienced, non-cirrhotic: 12 weeks Treatment-naïve or treatment- experienced with decompensated cirrhosis: 12 weeks in combination with ribavirin Treatment-naïve or treatment- experienced liver transplant recipients without cirrhosis, or with compensated cirrhosis: 12 weeks in combination with ribavirin Treatment-naïve or treatment- experienced liver transplant recipients without cirrhosis, or with compensated cirrhosis: 12 weeks in combination with ribavirin Treatment-experienced, cirrhotic: 24
Manitoba	For treatment-naïve/experienced (1) adult patients with chronic hepatitis C (CHC) infection who meet ALL the following criteria: i) Treatment is prescribed by a hepatologist, gastroenterologist, or infectious disease specialist ii) Laboratory confirmed hepatitis C genotype 1 iii) Patient has a quantitative HCV RNA value within the last 6 months iv) Fibrosis (2) stage of F0 or greater (Metavir scale or equivalent) including decompensated cirrhosis (As of April 2018)	weeks Genotype 1 Patient population duration of therapy reimbursed: -Treatment-naïve, non-cirrhotic, viral load < 6M IU/mL = 8 weeks -Treatment-naïve, non-cirrhotic, viral load > 6M IU/mL or Treatment-naïve, cirrhotic, or Treatment-experienced, non-cirrhotic = 12 weeks -Treatment-naïve or treatment- experienced with decompensated cirrhosis (5) = 12 weeks in combination with ribavirin -Treatment-naïve or treatment- experienced liver transplant recipients without cirrhosis or with compensated cirrhosis (5) = 12 weeks in combination with ribavirin -Treatment-experienced, cirrhotic = 24 weeks *Retreatment for failure or re-infection in patients who have received an adequate prior course of direct-acting antiviral will be considered on a case- by-case basis.
Ontario	For treatment-naive or treatment-experienced adult patients with chronic hepatitis C infection who meet all of the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or a designated prescriber; II) Laboratory confirmed hepatitis C genotype 1; III) Laboratory confirmed quantitative HCV RNA value within the last 6 months	Treatment-naïve, non-cirrhotic, recent quantitative hepatitis C viral load less than 6 M IU/mL: 8 weeks Treatment-naïve, without cirrhosis, viral load greater than or equal to 6 M IU/mL; or treatment-naïve with cirrhosis; or treatment-experienced without cirrhosis: 12 weeks Treatment-naïve or treatment- experienced with decompensated

Quebec As monotherapy, for treatment of persons suffering from chronic hepatitis C genotype 1 without cirrhosis and a contraindication or a serious inhibitor. (12 weeks) Treatment-naïve without cirrhosis and we have experienced therapeutic failure with a special cirrhors and who have experienced therapeutic failure with a special cirrhors with a protease inhibitor (12 weeks) Quebec As monotherapy, for treatment of persons suffering from chronic hepatitis C genotype 1 without decompensated cirrhosis, who have never received an anti-SCV treatment, (8-12 weeks) 8-24 weeks Quebec As monotherapy, for treatment of persons suffering from chronic hepatitis C genotype 1 without docompensated cirrhosis, who have a contraindication or a serious inhibitor. (12 weeks) 8-24 weeks Retreatment is an of funded. 8-24 weeks 8-24 weeks Not association of habvirin/perglated interferon alfa administered alone or combined with a protease inhibitor. (12 weeks) 8-24 weeks In association of habvirin/perglated interferon alfa administered alone or combined with a protease inhibitor. (12 weeks) 8-24 weeks As monotherapy, for treatment of chronic hepatitis C genotype 1 in persons: -With a compensated cirrhosis and a contraindication or a serious intoferance to eibavirin. OR -With a evaluating for an organ transplant or who have received a transplant. (12 weeks) Centurpe 1 Nova Stotia For treatment of chronic hepatitis C genotype 1 in persons: -With decompenstated cirrhosis and a contraindication or a serious intoferance t		1	
Quebec As monotherapy, for treatment of persons suffering from chronic hepatitis C genotype 1 without decompensated cirrhosis; who have experienced herapeutic basis through the Exceptional Access Program. Quebec As monotherapy, for treatment of persons suffering from chronic hepatitis C genotype 1 without decompensated cirrhosis; who have never received an and exput events who have experienced therapeutic basis through the Exceptional Access Program. Retreatment of failure with a association of thousin/negylated interferon alla administered alone or combined with a protease inhibitor. (12 weeks) 8-24 weeks New a sociation of thousin/negylated interferon alla administered alone or combined with a protease inhibitor. (12 weeks) 8-24 weeks New a sociation of thousin/negylated interferon alla administered alone or combined with a protease inhibitor. (12 weeks) 8-24 weeks New a Soutian Or treatment of chronic hepatitis C genotype 1 in persons. 8-24 weeks New a waiting for an organ transplant or who have received a transplant or who have experienced therapeutic failure with an association of thousin/negylated interferon alla administered alone or combined with a protease inhibitor. OR 9-With decompensated cirrhosis and a contraindication or a serious intolerance to rhavirin OR -With compensated cirrhosis and a contraindication or a serious intolerance to rhavirin 9-With decompensated cirrhosis and a contraindication or a serious intolerance to rhavirin (VE WA) have experimented therapeutic failure with a sociation of thous a serious inholterenace to rhavirin (VE WA) have a constraindingent or who have rece			
experienced liver transplant recipients without cirrhosis or with compensated cirrhosis: 12 weeks in combination with ribavirin (lbavyr) Treatment-resperienced, cirrhotic: 24 weeks Quebec As monotherapy, for treatment of persons suffering from chronic hepatitis C genotype 1 without decompensated cirrhosis, who have never received an arti-SCV treatment. (8-12 weeks) 8-24 weeks Quebec As monotherapy, for treatment of persons suffering from chronic hepatitis C genotype 1 without cirrhosis who have experienced therapeutic failure with an association of rbavirin/geglated interferon alf administered alone or combined with a protease inhibitor. (12 weeks) 8-24 weeks In association of rbavirin, for treatment of chronic hepatitis C genotype 1 in persons: -With compensated cirrhosis and who have experienced therapeutic failure with an association of rbavirin/geglated interferon alf administered alone or combined with a protease inhibitor. (12 weeks) 8-24 weeks New active and the ansociation of rbavirin/geglated interferon alfa administered alone or combined with a protease inhibitor OR -With decompensated cirrhosis and who have experienced therapeutic failure with an association of rbavirin/geglated interferon alfa administered alone or combined with a protease inhibitor OR -With decompensated cirrhosis and a contraindication or a serious intelerance to ribavirin peglated interferon alfa administered alone or combined with a protease inhibitor OR -With accompensated cirrhosis and a contraindication or a serious intelerance to ribavirin (24 weeks) Cenotype 1 -With accompensated cirrhosis and a contraindication or a serious intelerance to ribavirin (24 weeks) Nova Stotia For treatment-axy o			with Hoavinn (Toavyr)
Quebec As monotherapy, for treatment of persons suffering from chronic hepatitis C genotype 1 without cirrhosis way the Exceptional Access Program. Retreatment for failure or re-infection in patients who have received an adequate prior course of direct-acting antiviral will be considered an a adequate prior course of direct-acting antiviral will be considered an acae-by case hasis through the Exceptional Access Program. Quebec As monotherapy, for treatment of persons suffering from chronic hepatitis C genotype 1 without cirrhosis who have experienced therapeutic failure with an association of ribavirin/pegylated interferon alfa administered alone or combined with a protease inhibitor. 8-24 weeks Removes and the association of ribavirin/pegylated interferon alfa administered alone or combined with a protease inhibitor OR 8-24 weeks Who are waiting from organ transplant or who have received a transplant (12 weeks) 8-24 weeks New Stotia For treatment of chronic hepatitis C genotype 1 in persons: "With compensated cirrhosis and who have received a transplant (12 weeks) 8-24 weeks New Stotia For treatment of chronic hepatitis C genotype 1 in persons: "With decompensated cirrhosis and a contraindication or a serious intolerance to ribavirin/pegylated interferon alfa administered alone or contraindication or a serious intolerance to ribavirin (24 weeks) Nova Stotia For treatment-aver without cirrhosis stage (T0-F4) who met ALL of the following criteria: (24 weeks) Treatmenti seriscribed by a hepatiologisi, infectious dives a			Treatment-naïve or treatment-
Quebec As monotherapy, for treatment of persons suffering from chronic hapatitis C genotype 1 without icrohosis and who have experienced direct acting antiviral with be considered on a case-by case basis through the Exceptional Access Program. Quebec As monotherapy, for treatment of persons suffering from chronic hepatitis C genotype 1 without discompensated cirrhosis, who have necesived an anti-SCV treatment. (8-12 weeks) 8-24 weeks Quebec As monotherapy, for treatment of persons suffering from chronic hepatitis C genotype 1 without cirrhosis who have experienced therapeutic failure with an association of ribavirin/gegylated interferon alfa administered alone or combined with a protease inhibitor (12 weeks) 8-24 weeks In association of ribavirin/gegylated interferon alfa administered alone or combined with a protease inhibitor (OR -With compensated cirrhosis and who have experienced therapeutic failure with an association of ribavirin/gegylated interferon alfa administered alone or combined with a protease inhibitor (OR -With compensated cirrhosis and a contraindication or a serious intolerance to ribavirin and who have experienced therapeutic failure with an association of ribavirin/gegylated interferon alfa administered alone or combined with a protease inhibitor (OR -With compensated cirrhosis and a contraindication or a serious intolerance to ribavirin (Despit) and the have experienced therapeutic failure with an association of ribavirin/gegylated interferon alfa administered alone or containdication or a serious intolerance to ribavirin and who have experienced therapeutic failure with a association of ribavirin/gegylated interferon alfa administered alone or combined with a protease inhibitor (OR -With compensated cirrhosis and a contraindication or a serious intolerance to ribavirin (Despit)			experienced liver transplant recipients
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OR -Who are waiting for an organ transplant or who have received a transplant (12 weeks) As monotherapy, for treatment of chronic hepatitis C genotype 1 in persons: -With compensated cirrhosis and a contraindication or a serious intolerance to ribavirin and who have experienced therapeutic failure with an association of ribavirin/pegylated interferon alfa administered alone or combined with a protease inhibitor OR -With decompensated cirrhosis and a contraindication or a serious intolerance to ribavirin OR -With decompensated cirrhosis and a contraindication or a serious intolerance to ribavirin OR -With decompensated cirrhosis and a contraindication or a serious intolerance to ribavirin OR -Who are waiting for an organ transplant or who have received a transplant and who have a contraindication or a serious intolerance to ribavirin. (24 weeks) Genotype 1 -Treatment-naïve without cirrhosis, who have pre-treatment HCV RNA level < 6 million IU/mL and mono- HCV infected only: 8 weeks -Treatment-naïve without cirrhosis, With auc pre-treatment HCV RNA			
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administered alone or combined with a protease inhibitor OR -With decompensated cirrhosis and a contraindication or a serious intolerance to ribavirin OR -Who are waiting for an organ transplant or who have received a transplant and who have a contraindication or a serious intolerance to ribavirin. (24 weeks)Genotype 1Nova ScotiaFor treatment-naïve or treatment-experienced* adult patients with chronic hepatitis C infection at any fibrosis stage (F0-F4) who meet ALL of the following criteria: i) Treatment is prescribed by a hepatologist, infectious disease specialist or gastroenterologist ii) Laboratory confirmed hepatitis C genotype 1Genotype 1 -Treatment-naïve without cirrhosis, who have pre-treatment HCV RNA level < 6 million IU/mL and mono- HCV infected only: 8 weeks -Treatment-naïve without cirrhosis, Who are without cirrhosis, Contreatment-naïve without cirrhosis, ii) Laboratory confirmed hepatitis C genotype 1			
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ALL of the following criteria:who have pre-treatment HCV RNAi)Treatment is prescribed by a hepatologist, infectious disease specialist or gastroenterologistlevel < 6 million IU/mL and mono- HCV infected only: 8 weeksii)Laboratory confirmed hepatitis C genotype 1-Treatment-naïve without cirrhosis,	ivova Scotta		
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ii) Laboratory confirmed hepatitis C genotype 1 -Treatment-naïve without cirrhosis,		disease specialist or gastroenterologist	
iii) Laboratory confirmed quantitative HCV RNA level taken who have pre-treatment HCV RNA		ii) Laboratory confirmed hepatitis C genotype 1	-Treatment-naïve without cirrhosis,
		iii) Laboratory confirmed quantitative HCV RNA level taken	who have pre-treatment HCV RNA

	in the last 6 months	1 1.5 ('11' 11' 1.05
	iv) Fibrosis stage must be provided	level ≥ 6 million IU/mL OR treatment- naïve with compensated cirrhosis OR treatment-naïve with advanced liver fibrosis (F3 or F4) OR treatment- experienced without cirrhosis OR HCV/HIV co-infected without cirrhosis or with compensated cirrhosis: 12 weeks -Treatment-experienced with compensated cirrhosis: 24 weeks -Decompensated cirrhosis OR liver transplant recipients without cirrhosis or with compensated cirrhosis: 12 weeks in combination with ribavirin
New Brunswick	For treatment-naive or treatment-experienced adult patients with chronic hepatitis C infection who meet all of the following criteria: I) Laboratory confirmed hepatitis C genotype 1; II) Laboratory confirmed quantitative HCV RNA value within the last 6 months III) Fibrosis stage	Treatment-naïve without cirrhosis, who have pre-treatment HCV RNA level < 6 million IU/mL and mono-HCV infected only: 8 weeks Treatment-naïve without cirrhosis, who have pre-treatment HCV RNA level ≥ 6 million IU/mL OR treatment-naïve with compensated cirrhosis OR treatment-naïve with advanced liver fibrosis (F3 or F4) OR treatment- experienced without cirrhosis OR HCV/HIV co-infected without cirrhosis or with compensated cirrhosis: 12 weeks Treatment-experienced with compensated cirrhosis: 24 weeks Decompensated cirrhosis OR liver transplant recipients without cirrhosis or with compensated cirrhosis: 12 weeks in combination with ribavirin
Yukon	 For treatment-naïve or treatment-experienced*adult patients with chronic hepatitis C infection at any fibrosis stage (F0-F4) who meet ALL of the following criteria: Treatment is prescribed by a hepatologist, infectious disease specialist or gastroenterologist Laboratory confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6, or mixed genotype Laboratory confirmed quantitative HCV RNA level taken in the last 12 months Retreatment for failure or re-infection in patients who have received an adequate prior course of direct-acting antivirals will be considered on a case-by-case basis under the formulary exception process. All exception requests should include: Lab-confirmed hepatitis C genotype Quantitative HCV RNA value within the last 12 months Fibrosis stage *Treatment-experienced is defined as those who have been previously treated with a PegIFN/RBV regimen (including regimens containing an HCV protease inhibitor), and have not experienced an advance of the provide the provide	N/A
NWT & Nunavut	adequate response.For adult patients with chronic hepatitis C infection at any fibrosisstage (F0-F4) who meet ALL of the following criteria:	N/A

	 I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or other prescriber experienced in treating hepatitis C II) Laboratory confirmed hepatitis C infection with genotype 1, 2, 3, 4, 5, 6, or mixed genotype; III) Laboratory confirmed quantitative HCV RNA value within the last 12 months *Retreatment or re-infection in patients who have received an adequate prior course of direct-acting antivirals will be considered on a case-by-case basis. 	
PEI, Newfoundland &	N/A	N/A
Labrador		

Province	Coverage Criteria	Approved Duration
British Columbia	 For the treatment of treatment-naïve or treatment-experienced adult patients with CHC genotype 2 or 3 infection who meet ALL of the following criteria: a) Fibrosis stage of F0 or greater (Metavir scale or equivalent). Special Authority requests for patients must include a fibrosis score test performed in the last 12 months. Acceptable methods include liver biopsy, transient elastography (FibroScan) and serum biomarker panels (AST-to-Platelet Ratio Index (APRI)) either alone or in combination. Supporting documentation must be submitted. b) Treatment is prescribed by a hepatologist, a gastroenterologist, an infectious disease specialist, or other physicians experienced with treating hepatitis C c) Laboratory confirmed quantitative HCV RNA test must be done within the previous 12 months e) Patient is NOT currently being treated with another hepatitis C direct-acting antiviral drug (with the exception of daclatasvir for genotype 3). 	<u>Genotype 2</u> Treatment-naïve and treatment- experienced with no cirrhosis or with compensated cirrhosis: 12 weeks with RBV <u>Genotype 3</u> Treatment-naïve and treatment- experienced with no cirrhosis or with compensated cirrhosis: 24 weeks with RBV
Alberta	For use as combination therapy with ribavirin or daclatasvir for treatment-naive or treatment-experienced adult patients with chronic hepatitis C infection who meet all of the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or a designated prescriber; II) Laboratory confirmed hepatitis C genotype 2 or genotype 3; III) Laboratory confirmed quantitative HCV RNA value within the last 6-12 months; IV) Fibrosis stage of F0 or greater (Metavir scale or equivalent); Exclusion criteria for Alberta: - Patients currently being treated with another HCV antiviral agent - Retreatment for failure or re-infection in patients who have received an adequate prior course of an HCV direct-acting antiviral drug regimen may be considered on an exceptional case-by-case basis - Combination therapy with elbasvir/grazoprevir will not be considered	-Treatment-naive or treatment experienced genotype 2, without cirrhosis or with compensated cirrhosis: 12 weeks with RBV -Treatment-naive or treatment- experienced genotype 3, without cirrhosis: 12 weeks with daclatasvir - Treatment-naive or treatment- experienced genotype 3, without cirrhosis or with compensated cirrhosis: 24 weeks with RBV
Saskatchewan	For use as combination therapy with ribavirin or daclatasvir for treatment-naive or treatment-experienced adult patients with chronic hepatitis C infection who meet all of the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or a designated prescriber; II) Laboratory confirmed hepatitis C genotype 2 or genotype 3;	<u>Genotype 2</u> -Treatment-naïve or treatment experienced: 12 weeks in combination with ribavirin <u>Genotype 3</u>

	 III) Laboratory confirmed quantitative HCV RNA value within the last 6 months (For patients who meet the eligibility criteria for sofosbuvir (Sovaldi), clinicians are encouraged to choose sofosbuvir/velpatasvir (Epclusa) or sofosbuvir in combination with daclatasvir (Daklinza) as one of the preferred therapeutic options over sofosbuvir with ribavirin regimens for treatment of genotype 2 or 3 patients only. This recommendation is based on evidence that Epclusa or Daklinza in combination with sofosbuvir offers advantages in some patient populations, including potentially higher SVR rates and a shorter course of therapy for genotype 3 infections.) 	-Treatment-naïve or treatment- experienced without cirrhosis: 12 weeks in combination with daclatasvir OR 24 weeks in combination with ribavirin -Treatment-naïve or treatment- experienced with compensated or decompensated cirrhosis: 12 weeks in combination with daclatasvir and ribavirin OR 24 weeks in combination with ribavirin -Treatment-naïve or treatment- experienced post liver transplant: 12 weeks in combination with daclatasvir
		and ribavirin *Combination therapy with elbasvir/grazoprevir (Zepatier) will not be considered for funding.
Manitoba	 In combination with ribavirin or daclatasvir or both for treatment naïve/experienced (1) adult patients with chronic hep C (CHC) infection who meet ALL the following criteria: i) Treatment is prescribed by a hepatologist, gastroenterologist, or infectious disease specialist ii) Lab confirmed hep C genotype 2 or 3 iii) Patient has a quantitative HCV RNA value within the last 6 months iv) Fibrosis (2) stage of F2 or greater (Metavir scale or equivalent) As of April 2018. *For patients who meet the eligibility criteria for sofosbuvir (Sovaldi), clinicians are encouraged to choose sofosbuvir/velpatasvir (Epclusa) or sofosbuvir in combination with daclatasvir (Daklinza) as one of the preferred therapeutic options over sofosbuvir with ribavirin regimens for treatment of gen 2 or 3 patients only. *This recommendation is based on evidence that Epclusa or Daklinza in combo with sofosbuvir offers advantages in some patient populations, including potentially higher SVR rates and a shorter course of therapy for gen 3 infections. 	<u>Genotype 2</u> -Treatment-naïve/experienced without cirrhosis; or compensated cirrhosis (5) = 12 weeks in combination with ribavirin <u>Genotype 3</u> -Treatment naïve/experienced without cirrhosis = 12 weeks in combination with daclatasvir -Treatment naïve/experienced with compensated cirrhosis (5); or post liver transplant = 12 weeks in combination with daclatasvir and ribavirin
Ontario	For patients who meet the eligibility criteria for sofosbuvir (Sovaldi), clinicians are encouraged to choose sofosbuvir/velpatasvir (Epclusa) or sofosbuvir in combination with daclatasvir (Daklinza) as one of the preferred therapeutic options over sofosbuvir with ribavrin regimens for treatment of genotype 2 or 3 patients only. This recommendation is based on evidence that Epclusa or Daklinza in combination with sofosbuvir offers advantages in some patient populations, including potentially higher SVR rates and a shorter course of therapy for genotype 3 infections.	Genotype 2 -Treatment-naïve or treatment- experienced: 12 weeks in combination with ribavirin (Ibavyr) Genotype 3 -Treatment-naïve or treatment- experienced without cirrhosis: 12 weeks in combination with daclatasvir -Treatment-naïve or treatment- experienced with compensated cirrhosis or decompensated cirrhosis or post-liver transplant: 12 weeks in combination with daclatasvir and ribavirin -Treatment-naïve or treatment- experienced without cirrhosis, or with compensated cirrhosis or post-liver transplant: 24 weeks in combination with ribavirin
Quebec	In association with ribavirin and pegylated interferon alfa, for treatment of persons suffering from chronic hepatitis C genotype 1 or	Authorization granted for 12-24 weeks

	4, who are not HIV-1 infected and who have never received an anti- HCV treatment (12 weeks).	
	In association with ribavirin, for treatment of persons suffering from chronic hepatitis C genotype 2, who have never received anti-HCV treatment OR who have a contraindication or a serious intolerance to pegylated interferon alfa OR who have experienced therapeutic failure with an association of ribavirin/pegylated interferon alfa (12 weeks).	
	In association with ribavirin, for treatment of persons suffering from chronic hepatitis C genotype 3 who have a contraindication or a serious intolerance to pegylated interferon alfa OR who have already experienced therapeutic failure with an association of ribavirin/pegylated interferon alfa (24 weeks).	
	In association with daclatasvir, for treatment of persons suffering from chronic hepatitis C genotype 3 without cirrhosis who have a contraindication or a serious intolerance to pegylated interferon alfa or ribavirin OR who have experienced therapeutic failure with an association of ribavirin/pegylated interferon alfa (12 weeks).	
Nova Scotia & New Brunswick	For treatment-naïve or treatment-experienced adult patients with chronic hepatitis C virus (HCV) who meet the following criteria: -Lab-confirmed hepatitis C genotype 2 and 3 -Quantitative HCV RNA value within the last 6 months -Fibrosis stage must be provided	<u>Genotype 2</u> -Without cirrhosis OR with compensated cirrhosis: 12 weeks in combination with ribavirin
		<u>Genotype 3</u> -Without cirrhosis or with compensated cirrhosis: 24 weeks in combination with ribavirin -Without cirrhosis: 12 weeks in combination with daclatasvir -With compensated or decompensated cirrhosis or post-liver transplant without cirrhosis or with compensated cirrhosis: 12 weeks in combination with daclatasvir and ribavirin
Yukon	 For treatment-naïve or treatment-experienced*adult patients with chronic hepatitis C infection at any fibrosis stage (F0-F4) who meet ALL of the following criteria: i) Treatment is prescribed by a hepatologist, infectious disease specialist or gastroenterologist ii) Laboratory confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6, or mixed genotype iii) Laboratory confirmed quantitative HCV RNA level taken in the last 12 months 	N/A
	Retreatment for failure or re-infection in patients who have received an adequate prior course of direct-acting antivirals will be considered on a case-by-case basis under the formulary exception process.	
	All exception requests should include: -Lab-confirmed hepatitis C genotype -Quantitative HCV RNA value within the last 12 months -Fibrosis stage	
	*Treatment-experienced is defined as those who have been previously treated with a PegIFN/RBV regimen (including regimens containing an HCV protease inhibitor), and have not experienced an adequate response.	
NWT & Nunavut	For adult patients with chronic hepatitis C infection at any fibrosis	N/A

	 stage (F0-F4) who meet ALL of the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or other prescriber experienced in treating hepatitis C II) **Laboratory confirmed hepatitis C infection with genotype 1, 2, 3, 4, 5, 6, or mixed genotype; III) Laboratory confirmed quantitative HCV RNA value within the last 12 months *Retreatment or re-infection in patients who have received an adequate prior course of direct-acting antivirals will be considered on a case-by-case basis. 	
PEI, Newfoundland & Labrador	N/A	N/A

Table 10: Holkira	Paly Coverege	Critoria as of Au	aust 20 2018
Table IV. Holkira	r ak Coverage	Criteria as of Au	igust 20, 2010

Province	Coverage Criteria	Approved Duration
British Columbia	Effective March 23, 2017, BC PharmaCare will no longer approve new requests for coverage. For patients whose coverage was approved before March 23, 2017, PharmaCare will continue coverage until their current Special Authority expires.	N/A
Alberta	No new patients will be approved to initiate Holkira Pak therapy after March 31, 2017.	N/A
Saskatchewan	This medication will only be considered for patients in whom the other listed oral hepatitis C treatment alternatives are not appropriate. Requests for this medication should provide details of why the listed alternatives are not appropriate as well as indicating how the patient meets the medical criteria below.	Treatment naïve and experience genotype 1b, non-cirrhotic: 12 weeks Treatment naïve and experience genotypes 1a, non-cirrhotic: 12 weeks with RBV
	For treatment-naïve and treatment-experienced adult patients with chronic hepatitis C genotype 1 infection, with compensated liver disease, (including compensated cirrhosis) according to the following criteria: Prescribed by a hepatologist, gastroenterologist or an infectional disease generalized on other physician compensation and in treating	Treatment naïve and experienced genotype 1b, cirrhotic: 12 weeks with RBV
	infectious disease specialist or other physician experienced in treating hepatitis C as determined by the Drug Plan, lab-confirmed hepatitis C genotype 1, subtype 1a and 1b required, patient has a quantitative HCV RNA value within the last 6 months, fibrosis stage F2 or greater (Metavir scale or equivalent).	Treatment naïve and experienced (prio relapsers and prior partial responders) genotype 1a, cirrhotic: 12 weeks with RBV
	*As of April 27, 2018, Saskatchewan has removed the fibrosis requirement in order for DAA coverage.	Treatment experienced genotype 1a, with cirrhosis, who have had previous null response to PegIFN and RBV: 24 weeks with RBV
Ontario	The Ministry only considers funding of patients diagnosed with Chronic Hepatitis C infection. Consideration on a case-by-case basis through the Exceptional Access Program . Requests must include clinical detail with rationale as to why all formulary funded products that can be used within approved regimens cannot be considered. Laboratory information provided must include the following; laboratory confirmed genotype, quantitative HCV RNA values to demonstrate chronic hepatitis C infection, and fibrosis stage. *As of June 28, 2018	N/A
Quebec	Holkira Pak remains covered by the basic prescription drug insurance plan until September 6, 2017 for those insured persons who began receiving this treatment before March 22, 2017.	N/A
Nova Scotia	Effective May 1, 2017, Pharmacare will no longer approve new requests for coverage of Holkira Pak.	N/A

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PEI	Inclusion Criteria -HCV genotype 1 (also indicated for genotype 4) -18 years of age and older -compensated cirrhosis -stable address/phone number -stable on methadone or equivalent for at least 6 months (at discretion of treating physician) no fibrosis restriction -those with co-infections such as HCV/HIV or HCV/HBV are eligible for treatment with Holkira Pak but are treated by off island specialists in Hepatology or Infectious disease. <u>Exclusion criteria</u> -pregnancy (females seeking treatment cannot be pregnant at time of treatment and female partners of men seeking treatment cannot be pregnant)	N/A
Yukon	 -active IVDU (discretion of treating physician) For patients that meet the eligibility criteria below clinicians are encouraged to use Holkira Pak as one of the preferred therapeutic options over other covered therapies (eg: interferon-based regimens with NS3/4A protease inhibitors or polymerase inhibitors). This recommendation is based on Holkira Pak's advantages in some patient populations, including potentially higher SVR rates, improved tolerability, no need for concomitant interferon, and a shorter course of therapy. For treatment-naive and treatment-experienced adult patients with chronic hepatitis C genotype 1 infection, with compensated liver disease (including compensated cirrhosis*) according to the following criteria: Treatment is prescribed by a hepatologist, infectious disease specialist or gastroenterologist -Lab-confirmed hepatitis C genotype 1, subtype 1a and 1b required Patient saquantitative HCV RNA value within the last 6 months Fibrosis stage F2 or greater (Metavir scale or equivalent) Exclusion criteria: -Patients currently being treated with another HCV antiviral agent -Patients who have received a previous trial of Holkira Pak (retreatment requests will NOT be considered) -Decompensated patients -No funding for other genotypes except as noted above for genotype 1 -Patients who have received previous NS3/4A protease inhibitorbased regimens) -Patients who have received previous sofosbuvir-based regimens *This was last updated on August 17, 2018 but on CATIE as of April 27, 2018 it stated that the fibrosis requirement had been removed in 	Treatment-naïve and treatment- experienced genotype 1b, non- cirrhotic: 12 weeks Treatment-naïve and treatment- experienced genotype 1a, non- cirrhotic: 12 weeks in combination with RBV Treatment-naïve and treatment- experienced genotype 1b, cirrhotic: 12 weeks in combination with RBV Treatment-naïve and treatment- experienced (prior relapsers & prior partial responders) genotype 1a, cirrhotic: 12 weeks in combination with RBV Treatment-experienced genotype 1a, with cirrhosis and who have had a previous null response to PegIFN and RBV: 24 weeks in combination with RBV
NWT & Nunavut	Yukon. For the treatment of chronic hepatitis C virus (HCV) Genotype 1 infection in adults with a liver fibrosis stage ≥ F2 (Metavir score or equivalent); AND Patient is unable to take the following chronic hepatitis C medications based on intolerance/contraindication: Epclusa, Harvoni, Zepatier, Daklinza + Sunvepra	Treatment naïve and experienced Genotype 1b, non-cirrhotic*: 12 weeks Treatment-naïve and experienced Genotype 1a, non-cirrhotic: 12 weeks in combination with RBV Treatment-naïve and experienced Genotype 1b, cirrhotic: 12 weeks in

		Treatment-naïve and experienced (prior relapses and prior partial responders) Genotype 1a, cirrhotic: 12 weeks in combination with RBV
		Treatment-experienced Genotype 1a, with cirrhosis, and who have had a previous null response to PegIFN and RBV: 24 weeks in combination with RBV
		*Holkira Pak with ribavirin is recommended in patients with an unknown Genotype 1 subtype or with mixed Genotype 1 infection
Manitoba, New Brunswick, Newfoundland & Labrador	N/A	N/A

Table 11: Zepatier Coverage Criteria as of August 20, 2018

	overage Criteria as of August 20, 2018 Coverage Criteria	Approved Duration
Province British Columbia	Coverage Criteria For the treatment of treatment-naïve or treatment-experienced adult patients with CHC genotype 1 or 4 infection who meet ALL the following critiera: a) Fibrosis stage of F0 or greater (Metavir scale or equivalent). Special Authority requests for patients must include a fibrosis score test performed in the last 12 months. Acceptable methods include liver biopsy, transient elastography (FibroScan) and serum biomarker panels (AST-to-Platelet Ratio Index (APRI)) either alone or in combination. Supporting documentation must be submitted. b) Treatment is prescribed by a hepatologist, a gastroenterologist, an infectious disease specialist, or other physicians experienced with treating hepatitis C c) Laboratory confirmed quantitative HCV RNA test must be done within the previous 12 months Patient is NOT currently being treated with another hepatitis C direct-acting antiviral drug	Approved Duration Genotype 1: -Treatment-naïve with no cirrhosis or with compensated cirrhosis: 12 weeks -Treatment-experienced (prior relapsers) with no cirrhosis or with compensated cirrhosis: 12 weeks -Genotype 1b treatment-experienced (on-treatment virologic failures) with no cirrhosis or with compensated cirrhosis: 12 weeks -Genotype 1a treatment-experienced (on-treatment virologic failures) with no cirrhosis or with compensated cirrhosis: 16 weeks with RBV Genotype 4: -Treatment-naïve with no cirrhosis or with compensated cirrhosis: 12 weeks -Treatment-experienced (prior relapsers) with no cirrhosis or with compensated cirrhosis: 12 weeks -Treatment-experienced (on-treatment virologic failures) patient with no cirrhosis or with compensated
Alberta & Ontario	For treatment-naive or treatment-experienced (1) adult patients with chronic hepatitis C infection who meet all of the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or a designated prescriber; II) Laboratory confirmed hepatitis C genotype 1 or genotype 4; III) Laboratory confirmed quantitative HCV RNA value within the last 6-12 months; IV) Fibrosis stage of F0 or greater	cirrhosis: 16 weeks with RBV -Treatment-naïve or treatment- experienced (prior relapse), without cirrhosis or with compensated cirrhosis: 12 weeks - Treatment-experienced genotype 1b or who have had on-treatment virologic failures, without cirrhosis or with compensated cirrhosis: 12 weeks - Treatment-experienced genotype 1a or genotype 4 who have had on- treatment virologic failures, without cirrhosis or with compensated

		cirrhosis: 16 weeks with RBV
Saskatchewan	 For use as monotherapy or combination therapy with ribavirin for treatment-naïve or treatment-experienced adult patients with chronic hepatitis C infection according to the following criteria: Treatment is prescribed by a hepatologist, gastroenterologist, an infectious disease specialist or other prescriber experienced in treating hepatitis C as determined by the Drug Plan Laboratory-confirmed hepatitis C genotype 1 or 4 Laboratory-confirmed quantitative HCV RNA value within the last six months *Combination therapy with sofosbuvir (Sovaldi) will not be considered for funding. 	Genotype 1 -Treatment-naïve without cirrhosis or with compensated cirrhosis: 12 weeks (As approved by Health Canada, 8 weeks may be considered in treatment- naïve genotype 1b patients without significant fibrosis or cirrhosis) -Treatment-experienced relapsers without cirrhosis or with compensated cirrhosis: 12 weeks -Treatment-experienced genotype 1b with null response, partial response, or virologic breakthrough or rebound, or intolerance to prior treatment: 12 weeks -Treatment-experienced genotype 1a with null response, partial response, virologic breakthrough or rebound, or intolerance to prior treatment: 16 weeks in combination with RBV
		<u>Genotype 4</u> -Treatment-naïve without cirrhosis or with compensated cirrhosis: 12 weeks -Treatment-experienced relapsers without cirrhosis, or with compensated cirrhosis: 12 weeks -Treatment-experienced with null response, partial response, virologic breakthrough or rebound, or intolerance to prior treatment: 16 weeks in combination with RBV
Manitoba	 For treatment naïve or treatment experienced adult patients with chronic Hep C genotype (gen) 1 or 4 infection who meet ALL of the following: Treatment is prescribed by a hepatologist, gastroenterologist, or infectious disease specialist Laboratory confirmed Hep C gen 1 or gen 4 Patient has quantitative HCV RNA value within the last 6 months Fibrosis (2) stage of F0 or greater (Metavir scale or equivalent) (As of April 2018) 	<u>Genotype 1</u> -Treatment-naïve with/without compensated cirrhosis (5) = 12 weeks -Treatment-experienced gen 1b patient switch on-treatment virologic failures (6) and treatment-experienced gen 1a and 1b relapses with/without compensated cirrhosis (5) = 12 weeks -Treatment-experienced gen 1a who have had on-treatment virologic failures (6) = 16 weeks in combo with ribavirin
		*As approved by HC, 8 weeks may be considered in treatment-naïve gen 1b patients without significant fibrosis or cirrhosis as determined by liver biopsy (i.e. Metavir F0-F2) or by non-invasive tests.
		<u>Genotype 4</u> -Treatment-naïve, treatment- experienced relapses, with/without compensated cirrhosis (5) = 12 weeks -Treatment-experienced who have had on-treatment virologic failures (6) = 16 weeks in combo with ribavirin
		*Retreatment for failure or re-infection

		in patients who have received an adequate prior course of direct-acting antiviral will be considered on a case- by-case basis.
Quebec	As monotherapy or in combination with ribavirin for treatment of persons suffering with chronic hepatitis C genotype 1 or 4 without decompensated cirrhosis.	Authorization is granted for 12-16 weeks.
Nova Scotia	For treatment-naïve or treatment-experienced adult patients with chronic hepatitis C virus (HCV) without cirrhosis or with compensated cirrhosis who meet the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or a designated prescriber; II)Laboratory confirmed hepatitis C genotype 1 or genotype 4; III) Laboratory confirmed quantitative HCV RNA value within the last 6 months	Genotype 1: -Treatment-naïve and treatment- experienced prior relapsers: 12 weeks (8 weeks may be considered in treatment-naïve genotype 1b patients without significant fibrosis or cirrhosis)
	IV) Fibrosis stage must be provided	Genotype 1b: -Treatment-experienced on-treatment virologic failures: 12 weeks
		Genotype 1a: -Treatment-experienced on-treatment virologic failures: 16 weeks in combination with ribavirin
		Genotype 4: -Treatment-naïve or treatment- experienced prior relapsers: 12 weeks -Treatment-experienced on-treatment virologic failures: 16 weeks in combination with ribavirin
PEI	N/A	N/A
New Brunswick	For treatment-naïve or treatment-experienced adult patients with chronic hepatitis C virus (HCV) without cirrhosis or with compensated cirrhosis who meet the following criteria: -Lab-confirmed hepatitis C genotype 1 or 4 -Quantitative HCV RNA value within the last 6 months -Fibrosis stage	Genotype 1 -Treatment-naïve or treatment- experienced prior relapsers: 12 weeks (8 weeks may be considered in treatment-naïve genotype 1b patients without significant fibrosis or cirrhosis)
		<u>Genotype 1b</u> -Treatment-experienced on-treatment virologic failures: 12 weeks
		Genotype 1a -Treatment-experienced on-treatment virologic failures: 16 weeks in combination with ribavirin
		<u>Genotype 4</u> -Treatment-naïve or treatment- experienced prior relapsers: 12 weeks -Treatment-experienced on-treatment virologic failures: 16 weeks in combination with ribavirin
Newfoundland & Labrador	For treatment-naive or treatment-experienced (1) adult patients with chronic hepatitis C infection who meet all of the following criteria: I) Prescribed by a hepatologist, gastroenterologist, infectious disease specialist, or a designated prescriber;	<u>Genotype 1</u> -Treatment-naïve or treatment- experienced prior relapsers: 12 weeks
	 II)Laboratory confirmed hepatitis C genotype 1 or genotype 4; III) Laboratory confirmed quantitative HCV RNA value within the last 6 months IV) Fibrosis stage F2 or greater (Metavir scale or equivalent) or 	<u>Genotype 1b</u> -Treatment-experienced on-treatment virologic failures: 12 weeks

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	Fibrosis stage less than F2 (Metavir scale or equivalent) and at least	<u>Genotype 1a</u>
	one of the following:	-Treatment-experienced on-treatment
	-Co-infected with HIV or HBV	virologic failures: 16 weeks in
	-Post-organ transplant (liver and/or non-liver transplant)	combination with ribavirin
	-Extra-hepatic manifestations	
	-Chronic kidney disease stage 3, 4, or 5 as defined by the National	<u>Genotype 4</u>
	Kidney Foundation Kidney Disease Outcomes Quality Initiative	-Treatment-naïve or treatment-
	-Co-existent liver disease with diagnostic evidence of fatty liver	experienced prior relapsers: 12 weeks
	disease (e.g. non-alcoholic steatohepatitis)	-Treatment-experienced on-treatment
	-Patients with diabetes being treated with antihyperglycemic	virologic failures: 16 weeks in
	medications	combination with ribavirin
	-Woman of childbearing age who is planning a pregnancy within	
	the next 12 months	
Yukon	For treatment-naïve or treatment-experienced* adult patients with	N/A
	chronic hepatitis C infection at any fibrosis stage (F0-F4) who meet	
	ALL of the following criteria:	
	i) Treatment is prescribed by a hepatologist, infectious	
	disease specialist or gastroenterologist	
	ii) Laboratory confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6,	
	or mixed genotype	
	iii) Laboratory confirmed quantitative HCV RNA level taken	
	in the last 12 months	
	Retreatment for failure or re-infection in patients who have received	
	an adequate prior course of direct-acting antivirals will be considered	
	on a case-by-case basis under the formulary exception process.	
	All exception requests should include:	
	-Lab-confirmed hepatitis C genotype	
	-Quantitative HCV RNA value within the last 12 months	
	-Fibrosis stage	
	*Treatment-experienced is defined as those who have been	
	previously treated with a PegIFN/RBV regimen (including regimens	
	containing an HCV protease inhibitor), and have not experienced an	
	adequate response.	
NWT & Nunavut	For adult patients with chronic hepatitis C infection at any fibrosis	N/A
	stage (F0-F4) who meet ALL of the following criteria:	
	I) Prescribed by a hepatologist, gastroenterologist, infectious disease	
	specialist, or other prescriber experienced in treating hepatitis C	
	II) Laboratory confirmed hepatitis C infection with genotype 1, 2, 3,	
	4, 5, 6, or mixed genotype;	
	III) Laboratory confirmed quantitative HCV RNA value within the	
	last 12 months	
	*Retreatment for failure or re-infection in patients who have received	
	an adequate prior course of direct-acting antivirals will be considered	
	on a case-by-case basis.	

Table 12: Vosevi Coverage Criteria as of August 20, 2018

Province	Coverage Criteria	Approved Duration
British Columbia	For the treatment of direct-acting antivirals (DAA) experienced	Treatment regimens for genotype 1, 2,
	including: NS5A Inhibitor treatment-experienced adult patients with	3, 4, 5, or 6 DAA experienced adult
	CHC genotype 1, 2, 3, 4, 5, or 6 infection; or Non-NS5A Inhibitor	patients with NS5A Inhibitor
	sofosbuvir-containing regimen treatment-experienced adult patients	treatment-experienced with no
	with CHC genotype 1, 2, 3, or 4 infection who meet ALL of the	cirrhosis or with compensated
	following criteria:	cirrhosis: 12 weeks
	a) Fibrosis stage of F0 or greater (Metavir scale or	
	equivalent). Special Authority requests for patients must	

	 include a fibrosis score test performed in the last 12 months. Acceptable methods include liver biopsy, transient elastography (FibroScan) and serum biomarker panels (AST-to-Platelet Ratio Index (APRI)) either alone or in combination. Supporting documentation must be submitted. b) Treatment is prescribed by a hepatologist, a gastroenterologist, an infectious disease specialist, or other physicians experienced with treating hepatitis C c) Laboratory confirmed hepatitis C genotype 1, 2, 3, 4, 5, or 6 d) Laboratory confirmed quantitative HCV RNA test must be done within the previous 12 months at SVR12 or SVR24 	Treatment regimens for genotype 1, 2, 3, or 4 DAA experienced adults with non-NS5A inhibitor, sofosbuvir- containing regiment treatment- experienced with no cirrhosis or with compensated cirrhosis: 12 weeks
	e) Patient is NOT currently being treated with another hepatitis C direct-acting antiviral drug	27/4
Alberta	Is not on EDS Criteria List (published April 1, 2018). It only became available through Alberta Pharmacare on May 1, 2018.	N/A
Saskatchewan	 For use as monotherapy for treatment-experienced adult patients with chronic hepatitis C infection according to the following criteria: Treatment is prescribed by a hepatologist, gastroenterologist, an infectious disease specialist or other prescriber experienced in treatment hepatitis C Laboratory-confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6, or mixed genotypes Laboratory-confirmed quantitative HCV RNA value within the last 6 months 	Treatment-experienced, non-cirrhotic or compensated cirrhosis: 12 weeks
Manitoba	For treatment-experienced adult patients with chronic hepatitis C genotype 1, 2, 3, 4, 5, 6, or mixed genotypes infection. Complete criteria may be obtained from the EDS office at Manitoba Health. Request for coverage must be made by a hepatologist, gastroenterologist or an infectious disease specialist. *Bulletin 99, July 19, 2018	N/A
Ontario	 For treatment-experienced adult patients with chronic hepatitis C infection who meet all of the following criteria: Treatment is prescribed by a hepatologist, gastroenterologist, an infectious disease specialist or other prescriber experienced in treatment hepatitis C Laboratory-confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6, or mixed genotypes Laboratory-confirmed quantitative HCV RNA value within the last 6 months Treatment-experienced are those who failed prior therapy with a HCV regimen containing: NS5A inhibitor* for genotype 1, 2, 3, 4, 5, or 6 Sofosbuvir (Sovaldi) without an NS5A inhibitor for genotype 1, 2, 3 or 4 *NS5A inhibitors include: daclatasvir (Daklinza), elbasavir (as part of Zepatier), ledipasvir (as part of Epclusa) 	Treatment-experienced, non-cirrhotic or compensated cirrhosis: 12 weeks
Quebec	As monotherapy, for treatment of persons suffering from chronic hepatitis C, without decompensated cirrhosis, infected by: -Genotype 1, 2, 3, 4, 5, or 6 and having experienced a therapeutic failure with a treatment containing a NS5A inhibitor OR -Genotype 1, 2, 3, or 4 and having experienced a therapeutic failure with a sofosbuvir-based treatment, but without a NS5A inhibitor	12 weeks
New Brunswick	For treatment-experienced adult patients with chronic hepatitis C virus (HCV) who meet the following criteria:	Patients with compensated cirrhosis or without cirrhosis: 12 weeks

-Must be prescribed by a hepatologist, gastroenterologist, or	
infectious disease specialist (or other physician experienced in	
treating a patient with hepatitis C infection)	
-Lab-confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6, or mixed	
genotype	
-Quantitative HCV RNA value within the last 6 months	
Treatment-experienced is defined as a patient who has been	
previously treated with an NS5A inhibitor for genotype 1, 2, 3, 4, 5,	
or 6 or sofosbuvir without an NS5A inhibitor for genotype 1, 2, 3, or	
4 and who has not experienced an adequate response.	
N/A	N/A
For treatment-experienced adult patients with:	N/A
-Detectable levels of HCV RNA in the last 12 months	
AND	
Treatment-experienced having failed a prior therapy with an HCV	
or 4	
	 infectious disease specialist (or other physician experienced in treating a patient with hepatitis C infection) -Lab-confirmed hepatitis C genotype 1, 2, 3, 4, 5, 6, or mixed genotype -Quantitative HCV RNA value within the last 6 months Treatment-experienced is defined as a patient who has been previously treated with an NS5A inhibitor for genotype 1, 2, 3, 4, 5, or 6 or sofosbuvir without an NS5A inhibitor for genotype 1, 2, 3, or 4 and who has not experienced an adequate response. N/A For treatment-experienced adult patients with: -Chronic hepatitis C at any fibrosis stage (F0-F4) and -Detectable levels of HCV RNA in the last 12 months AND Treatment-experienced having failed a prior therapy with an HCV regimen containing: -NS5A inhibitor: daclatasvir (Daklinza), elbasvir (part of Zepatier), ledipasvir (part of Harvoni), ombitasvir (part of Holkira Pak), velpatasvir (part of Epclusa) for genotype 1, 2, 3, 4, 5, or 6; OR -Sofosbuvir (Sovaldi) without an NS5A inhibitor for genotype 1, 2, 3

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