

CADTH COMMON DRUG REVIEW

Patient Input

FLUOCINOLONE ACETONIDE (Iluvien)

(Knight Therapeutics Inc.)

Indication: Diabetic macular edema

CADTH received patient input from:

Canadian Association for Retired Persons (CARP)

Canadian Council of the Blind (CCB)

Diabetes Canada

International Federation on Ageing (IFA)

April 25, 2019

Disclaimer: The views expressed in each submission are those of the submitting organization or individual; not necessarily the views of CADTH or of other organizations.
CADTH does not edit the content of the submissions.
CADTH does use reasonable care to prevent disclosure of personal information in posted material; however, it is ultimately the submitter's responsibility to ensure no personal information is included in the submission. The name of the submitting patient group and all conflict of interest information are included in the posted patient group submission; however, the name of the author, including the name of an individual patient or caregiver submitting the patient input, are not posted.



Patient Input Template for CADTH CDR and pCODR Programs

Name of the Drug and Indication	Iluvien (fluocinolone acetonide intravitreal implant) Treatment of diabetic macular edema (DME)
Name of the Patient Group	International Federation on Ageing (IFA) Canadian Council of the Blind (CCB) Diabetes Canada (DC) Canadian Association for Retired Persons (CARP)
Author of the Submission	
Name of the Primary Contact for This Submission	
Email	
Telephone Number	

1. About Your Patient Group

Founded in 1973, the International Federation on Ageing (IFA) is an international non-governmental organization with its headquarters in Toronto, Canada. The organization has general consultative status at the United Nations and its agencies, and a formal working agreement with the World Health Organization (WHO). The vision of the IFA is a world of healthy older people whose rights are both protected and respected and who's aim is to inform good policy and practice, across the life course. The IFA encourages and supports research, policy and practice to advance the management and treatment of those Canadians now and in the future with eye conditions. www.ifa-fiv.org

The Canadian Council of the Blind (CCB) was founded in 1944 by blind war veterans and graduates from schools of the blind. All officers and directors are blind or visually impaired, which gives a unique sensitivity to the needs of the blind community. The CCB is a registered charity pursuant to the provisions of the Income Tax Act (Canada); charity number is: 11921 8899 RR0001. The CCB has over 80 chapters across Canada, and with over 1,500 members, is the largest membership-based organization for the blind. The purpose of the CCB is to give people with vision loss a distinctive and unique perspective before governments. The CCB deals with the ongoing effects of vision loss by encouraging active living and rehabilitation through peer support and social and recreational activities. CCB promotes measures to conserve sight, create a close relationship with the sighted community and provide employment opportunities. For the 21st century, the CCB is committed to an integrated proactive health approach for early detection to improve the quality of life for all Canadians. www.ccbnational.net

Diabetes Canada (DC) is a national health charity representing 11 million Canadians living with diabetes or prediabetes. The priorities of our mission are diabetes prevention, care and cure. A focus on research and policy initiatives helps to deliver impact at a population level, while partnerships broaden reach in communities across the country. Diabetes Canada drives excellence in disease management by putting practical, evidence-based tools into the hands of health-care providers and

advocates for environments that make the healthy choice the easy choice. Diabetes Canada continues to search for a cure, as well as for better prevention and treatment strategies, by funding the work of innovative scientists. In 1921, Canada changed diabetes for the world with the discovery of insulin. By 2021, Diabetes Canada will change the world for those affected by diabetes through healthier communities, exceptional care, and high-impact research. www.diabetes.ca

Canadian Association for Retired Persons (CARP) is Canada's largest advocacy association for older Canadians. As a non-partisan not-for-profit association, CARP is committed to advocate for the rights and well-being of older Canadians. Formerly the Canadian Association for Retired Persons, today CARP has more than 320,000 members aged 50 plus with 30 chapters across the country. CARP's focus includes advocacy, policy development, community engagement, research and outreach. CARP has members in every jurisdiction of the country and has an outreach of approximately 2 million older Canadians from coast to coast. CARP's national policy platform, the "FACES of Canadian Seniors" identifies 5 priority areas; Financial Security, Abuse Prevention, Caregiving and Housing Supports, Exceptional Healthcare and Social Inclusion. CARP's commitment to vision health falls squarely in within the organizations key priorities.

2. Information Gathering

The information was gathered through both an online survey and telephone interviews. All of the data was contributed anonymously.

IFA developed and designed a 10-minute, 22-question online survey that was disseminated in English and French. Recruitment was undertaken by IFA, CCB, DC and CARP through social media and other online platforms. The online survey was open between April 8th and April 19th,2019. There were 5 respondents in total (3 DME patients and 2 DME caregivers). The respondents were from Canada (4) and Australia (1).

The telephone interviews were all conducted by Dr. Jane Barratt between April 11th and April 23rd, 2019. There were 3 patients and 1 caregiver (on behalf of a patient) interviewed, all of whom had experience on Iluvien. As there were no patients with recent experience on Iluvien in Canada, all of the people interviewed were from the United States.

3. Disease Experience

The respondents reported a wide range of time to a DME diagnosis - from 1 hour to 2 years.

Patients were asked to describe how DME impacts their daily life on a scale of 0 to 5, with 0 being 'no impact whatsoever on daily life' and 5 being 'very significant impact on daily life'. Attending medical appointments was rated as the most significant impact at 4.7/5.0, followed by reading (4.3/5.0), driving (4.0/5.0) and housework (3.3/5.0). When the caregivers were asked the same question, the most significant impact was taking their loved one to medical appointments and their employment (both 4.5/5.0), followed by housework and taking care of family (both 3.5/5.0).

Patients were then asked to describe how DME impacts their quality of life. Relying on others and isolation rated as the most significant impacts at 4.3/5.0, followed by independence and enjoyment of family (4.0/5.0), self-worth (3.7/5.0) and contributing to society (3.3/5.0). For caregivers, the most significant impact was mental health (depression, anxiety) and isolation (both at 4.5/5.0), followed by time to self (3.5/5.0).

The survey then asked patients to choose those aspects/symptoms of DME that most concern them. All of the respondents chose each of the four options – blurry vision, floaters, double-vision and blindness/vision loss. When asked to rank those same choices, the results are unsurprising. All of the patients ranked blindness/vision loss as the most important aspect/symptom to control (4.0/4.0), followed by double-vision (2.7/4.0), blurry vision (2.0/4.0) and floaters (1.3/4.0).

"A lack of clear vision and not seeing as well is causing stress and depression."

4. Experiences With Currently Available Treatments

None of the patients are currently receiving any medications for the treatment of DME. One person had previously received Lucentis and Avastin. One patient is also taking medications for diabetes.

For the individual that had previously taken Lucentis and Avastin, they rated both medications as 'very effective.' More specifically, both Lucentis and Avastin improved visual acuity, helped in retaining independence and maintained their hope. The noted side effect of Lucentis was irritation and for Avastin it was increased intraocular pressure.

When asked about other challenges the one patient and two caregivers faced with treatments (current or previous), two people mentioned travel time/distance to getting treatment, two noted cost of treatment, the two caregivers mentioned time off of work to get treatment and the patient noted treatment administration i.e. swallowing pills. Some additional reasons for missing appointments which have been reported in previous CADTH submissions for DME therapy include; anxiety about the injection, cost of transportation and/or illness.

5. Improved Outcomes

The one patient and two caregivers with current or previous experience with treatments were then asked what improvements they would like to see in a new treatment. All three wanted a halt to vision loss, longer-term vision improvement (i.e. beyond three months) and decreased wait times for procedures. Two respondents also hoped for improvement to their double-vision and blurry vision.

Thinking further about desired improvements, all of the patients were asked how a new treatment option would impact their quality of life. Driving, reading and housework ranked highest at 4.7/5.0, followed by taking care of family and attending medical appointments (both at 4.0/5.0). When the caregivers were asked the same question, the most desired improvement related to their employment at 5.0/5.0, followed equally by taking care of family and housework (both at 4.0/5.0).

All of the patients were then asked how the desired improvements in a new treatment option would impact their quality of life. Relying on others, independence, contributing to society and isolation all averaged a 4.7/5.0 response rate, indicating that the new treatment option would greatly improve overall quality of life. This trend was also seen with respect to self-worth and enjoyment of family which came in at 4.3/5.0, followed by mental health (depression, anxiety) at 4.0/5.0. In the case of the two caregivers, mental health (depression, anxiety) averaged 5.0/5.0, followed by isolation and time to self (4.5/5.0) and then physical health (4.0/5.0).

The respondents were asked how important it is to have less frequent injections in a new treatment option for DME; three out of five people ranked this as either 'important' or 'extremely important.' When asked how important it is to have longer-term vision improvement in a new treatment for DME, the results were unanimous – all five individuals ranked this as 'extremely important.'

6. Experience With Drug Under Review

Three patients and one caregiver (speaking on behalf of a patient) who had experience with Iluvien were interviewed by telephone. All are residents of the United States.

The patients are 62, 67, 72 and 76 years old. They were diagnosed with DME 6 years ago, 7 years ago, 5 years ago and 5 years ago respectively.

The 62 year old patient has been on Iluvien since May, 2016 when they received one injection in the left eye. This person has no vision in the right eye, so treatment with Iluvien was especially critical. The 67 year old patient had one injection of Iluvien in each eye in May, 2016 and since then, has had no need for further injections. The 72 year old patient received one injection of Iluvien in one eye in April, 2018, with no further need for injections since that time. The 76 year old patient began Iluvien in 2016 with one injection in the left eye.

One patient received Iluvien through private insurance, while another received it through Veterans Affairs. The third person received Iluvien through a combination of private insurance and a clinical program. The fourth patient (through their caregiver) is unsure how they are getting the drug.

When asked what benefits they have experienced with Iluvien, the patients mentioned the reduction in the number of injections (from every 1-3 months, to every 2-3 years), less worry about infections, elimination of swelling, less time off of work to attend appointments and a decrease in discomfort due to less frequent injections.

When asked how these benefits have impacted their day-to-day activities and quality of life, the patients noted increased independence, more happiness, a greater sense of 'permanency' in their vision, ability to travel, a return to all personal and lifestyle activities and more confidence.

When compared to other treatments for DME, the four patients said:

"Treatment with Iluvien is superior because I can see a lot better and can then be independent to do my own thing."

"Iluvien has been easy, with little or no impact on my lifestyle."

"Iluvien is far superior because of the vision and lifestyle outcomes."

"Iluvien is far better and now (he's) independent. No caring from family is required."

None of the patients mentioned that they experienced any disadvantages with Iluvien. However, when asked about disadvantages with other treatments, one patient noted Lucentis doesn't seem to last as long as Iluvien and requires more frequent appointments. Another person said going for injections every three months meant more burden on their caregiver, concern about infections and anxiety about whether the treatment would even work. The third patient mentioned that with Lucentis, their appointments were more frequent, they were anxious, they missed more work and they could not focus on other aspects of their life. The fourth patient talked about how they were becoming very depressed with the loss of function and independence.

"The countdown to once per month treatment was like having a new set of stitches on a wound which wouldn't heal, whereas Iluvien is positive."

The four patients were then asked about side effects with Iluvien. They ranged from none to minimal ("a few black dots").

Three patients also said that Iluvien was easier to use than previous therapies for DME because there are fewer physician appointments, less travel time, more confidence and a greater focus on other parts of their health and well-being. The other patient was pleased with the current outcomes and status with Iluvien, but said that they could draw no significant comparison with Lucentis.

In closing, when asked to describe how their lives have changed since starting Iluvien, the four individuals said:

"Iluvien has given me the confidence to focus on management of the disease, so my weight has decreased, I exercise more, volunteer part-time and have the incentive to be as well as I can."

"As part of my diabetes management, Iluvien has enabled me to continue my active lifestyle, while monitoring my diet, exercise and medication regimes."

"Iluvien has opened doors again. It's made my life easier, less swelling has meant my vision is a lot better, I am less depressed and optimistic about the future. Iluvien has given me a new life."

"It's been life-changing. Iluvien has meant less swelling, so (his) vision is a lot better. The independence (he's) regained is a miracle. (He's) no longer depressed and is excited with the opportunities to travel and be with friends."

7. Anything Else?

When asked specifically how important it is that DME patients have the option to access Iluvien in a timely manner (if it is appropriate for them), the majority surveyed ranked that option as 'extremely important.' Some of the responses to the question 'Please tell us in your own words what having access to Iluvien would mean to those affected by DME' include:

"Improved vision for a longer time with timely access can help increase independence and the ability to partake more in activities that enhance the quality of life."

"If it would improve my vision even for a limited time, it would be worth it."

"Anything (or procedure) to improve my vision would be welcome. I am 82, healthy and active, and still have plans for the future."

Appendix: Patient Group Conflict of Interest Declaration

1. Did you receive help from outside your patient group to complete this submission? If yes, please detail the help and who provided it.

No

2. Did you receive help from outside your patient group to collect or analyze data used in this submission? If yes, please detail the help and who provided it.

Yes, we worked with Impetus Digital to design, collect and analyze the survey results.

3. List any companies or organizations that have provided your group with financial payment over the past two years AND who may have direct or indirect interest in the drug under review.

Company	Che	ck Appropr	iate Dollar I	Range
	\$0 to 5,000	\$5,001 to 10,000	\$10,001 to 50,000	In Excess of \$50,000
Bayer Canada				Χ
Bayer Global				X
Roche Canada			Χ	

I hereby certify that I have the authority to disclose all relevant information with respect to any matter involving this patient group with a company, organization, or entity that may place this patient group in a real, potential, or perceived conflict of interest situation.

Name: Dr. Jane Barratt Position: Secretary General Patient Group: International Federation on Ageing Date: April 25, 2019



Appendix: Patient Group Conflict of Interest Declaration

To maintain the objectivity and credibility of the CADTH CDR and pCODR programs, all participants in the drug review processes must disclose any real, potential, or perceived conflicts of interest. This Patient Group Conflict of Interest Declaration is required for participation. Declarations made do not negate or preclude the use of the patient group input. CADTH may contact your group with further questions, as needed.

1. Did you receive help from outside your patient group to complete this submission? If yes, please detail the help and who provided it.

No

2. Did you receive help from outside your patient group to collect or analyze data used in this submission? If yes, please detail the help and who provided it.

No

3. List any companies or organizations that have provided your group with financial payment over the past two years AND who may have direct or indirect interest in the drug under review.

Company	Che	ck Appropr	iate Dollar I	Range
	\$0 to 5,000	\$5,001 to 10,000	\$10,001 to 50,000	In Excess of \$50,000
none				

I hereby certify that I have the authority to disclose all relevant information with respect to any matter involving this patient group with a company, organization, or entity that may place this patient group in a real, potential, or perceived conflict of interest situation.

Name: Laura Tamblyn Watts Position: Chief Public Policy Officer

Patient Group: Canadian Association of Retired Persons

Date: May 8, 2019



Appendix: Patient Group Conflict of Interest Declaration

To maintain the objectivity and credibility of the CADTH CDR and pCODR programs, all participants in the drug review processes must disclose any real, potential, or perceived conflicts of interest. This Patient Group Conflict of Interest Declaration is required for participation. Declarations made do not negate or preclude the use of the patient group input. CADTH may contact your group with further questions, as needed.

1. Did you receive help from outside your patient group to complete this submission? If yes, please detail the help and who provided it.

NO

2. Did you receive help from outside your patient group to collect or analyze data used in this submission? If yes, please detail the help and who provided it.

Yes. Impetus Digital helped to design, collect and analyze the survey results.

3. List any companies or organizations that have provided your group with financial payment over the past two years AND who may have direct or indirect interest in the drug under review.

Company	Che	ck Appropr	iate Dollar I	Range
	\$0 to 5,000	\$5,001 to 10,000	\$10,001 to 50,000	In Excess of \$50,000
Bayer Canada				X

I hereby certify that I have the authority to disclose all relevant information with respect to any matter involving this patient group with a company, organization, or entity that may place this patient group in a real, potential, or perceived conflict of interest situation.

Name: Louise Gillis

Position: National President

Patient Group: Canadian Council of the Blind

Date: May 9, 2019



Appendix: Patient Group Conflict of Interest Declaration

To maintain the objectivity and credibility of the CADTH CDR and pCODR programs, all participants in the drug review processes must disclose any real, potential, or perceived conflicts of interest. This Patient Group Conflict of Interest Declaration is required for participation. Declarations made do not negate or preclude the use of the patient group input. CADTH may contact your group with further questions, as needed.

1. Did you receive help from outside your patient group to complete this submission? If yes, please detail the help and who provided it.

Diabetes Canada jointly contributed to the Iluvien patient input submission with the International Federation on Ageing, the Canadian Council of the Blind and the Canadian Association for Retired Persons.

2. Did you receive help from outside your patient group to collect or analyze data used in this submission? If yes, please detail the help and who provided it.

The International Federation on Ageing engaged with Impetus Digital to design, collect and analyze the survey results.

3. List any companies or organizations that have provided your group with financial payment over the past two years AND who may have direct or indirect interest in the drug under review.

Company	Che	ck Appropr	iate Dollar F	Range
	\$0 to 5,000	\$5,001 to 10,000	\$10,001 to 50,000	In Excess of \$50,000

Please find attached a list of organizations who have recently supported Diabetes Canada financially, along with the amounts provided.

I hereby certify that I have the authority to disclose all relevant information with respect to any matter involving this patient group with a company, organization, or entity that may place this patient group in a real, potential, or perceived conflict of interest situation.

Name: Ann Besner, MScA, RD, CDE

Position: Manager, Research and Policy Analysis

Patient Group: Diabetes Canada

Date: May 8, 2019

Financial Contributions to Diabetes Canada (updated 2017)

Constituent/Name	Funder range (\$)
AstraZeneca Canada Inc	350,000+
LifeScan Canada Ltd.	350,000+
Novo Nordisk Canada Inc	350,000+
Sanofi Canada	350,000+
Sun Life Financial	350,000+
Eli Lilly Canada Inc	250,000-349,999
Ascensia Diabetes Care	175,000-249,999
Janssen Inc	175,000-249,999
Medtronic Of Canada Ltd	175,000-249,999
Dairy Farmers Of Canada	100,000-174,999
Merck Canada Inc	100,000-174,999
WEIGHT WATCHERS	100,000-174,999
Abbott Diabetes Care	50,000-99,999
Canola Council Of Canada	50,000-99,999
Insulet Canada Corporation	50,000-99,999
Knight Therapeutics Inc.	50,000-99,999
Manulife Financial	50,000-99,999
Nestle Health Science	50,000-99,999
RBC Foundation	50,000-99,999
The Bank of Nova Scotia	50,000-99,999
Abbott Nutrition	25,000-49,999
BD Medical Diabetes Care	25,000-49,999
Beer Canada	25,000-49,999
Dexcom Canada	25,000-49,999
Dynacare	25,000-49,999
Heartland Food Products Group	25,000-49,999
McNeil Consumer Healthcare	25,000-49,999
Rexall Foundation	25,000-49,999
Roche Diabetes Care	25,000-49,999
SaskCanola	25,000-49,999
Auto Control Medical Inc	5,000-24,999
Bayer Pharmaceuticals	5,000-24,999
Boehringer Ingelheim (Canada) Ltd	5,000-24,999
Canadian Association of Optometrists	5,000-24,999
Canadian Produce Marketing	5,000-24,999
Association	
CHICKEN FARMERS OF CANADA	5,000-24,999
Edelman Canada	5,000-24,999
EOCI Pharmacomm Ltd.	5,000-24,999
Euro Harvest Bakery Wholesalers	5,000-24,999
Farleyco Marketing Inc	5,000-24,999
ForaCare Technology Canada Inc.	5,000-24,999
Holista Foods	5,000-24,999
InBody Canada	5,000-24,999
Innovative Medicines Canada	5,000-24,999
Ipsen	5,000-24,999
Jays Care Foundation	5,000-24,999

Montmed 5,000-24,999 Myelin & Associates 5,000-24,999 Novartis Pharmaceuticals Canada Inc 5,000-24,999 Ontario Pork Council 5,000-24,999 Original Energy Sales 5,000-24,999 Paladin Labs Inc 5,000-24,999 Pharmasave Drugs (National) Ltd 5,000-24,999 Prime Strategies Inc. 5,000-24,999 PULSE CANADA 5,000-24,999
Novartis Pharmaceuticals Canada Inc 5,000-24,999 Ontario Pork Council 5,000-24,999 Original Energy Sales 5,000-24,999 Paladin Labs Inc 5,000-24,999 Pharmasave Drugs (National) Ltd 5,000-24,999 Prime Strategies Inc. 5,000-24,999
Ontario Pork Council 5,000-24,999 Original Energy Sales 5,000-24,999 Paladin Labs Inc 5,000-24,999 Pharmasave Drugs (National) Ltd 5,000-24,999 Prime Strategies Inc. 5,000-24,999
Original Energy Sales 5,000-24,999 Paladin Labs Inc 5,000-24,999 Pharmasave Drugs (National) Ltd 5,000-24,999 Prime Strategies Inc. 5,000-24,999
Paladin Labs Inc 5,000-24,999 Pharmasave Drugs (National) Ltd 5,000-24,999 Prime Strategies Inc. 5,000-24,999
Pharmasave Drugs (National) Ltd 5,000-24,999 Prime Strategies Inc. 5,000-24,999
Prime Strategies Inc. 5,000-24,999
, , ,
PULSE CANADA 5,000-24,999
Royal College Of Physicians And 5,000-24,999
Surgeons Of Canada
Tykess Pharmaceuticals 5,000-24,999
<i>Urban Poling Inc</i> 5,000-24,999
Valeant Canada LP 5,000-24,999
VitalAire Canada Inc 5,000-24,999