

CADTH REIMBURSEMENT REVIEW

Stakeholder Feedback on Draft Recommendation

venetoclax (Venclexta)

AbbVie Corporation

Indication: In combination with azacitidine for the treatment of patients with newly diagnosed acute myeloid leukemia (AML) who are 75 years or older, or who have comorbidities that preclude use of intensive induction chemotherapy.

July 22, 2021

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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 identifying personal information or personal health information is included in the submission. The name of the submitting stakeholder group and all conflicts of interest information from individuals who contributed to the content are included in the posted submission.



CADTH Reimbursement Review Feedback on Draft Recommendation

Stakeholder information		
CADTH project number	PC0238-000	
Brand name (generic)	Venclexta (venetoclax)	
Indication(s)	Acute Myeloid Leukemia	
Organization	Canadian Leukemia Study Group (CLSG/CGEL)	
Contact information ^a	Name: Joseph Brandwein	
	Email:	
	Phone:	

Stakeholder agreement with the draft recommendation

1. Does the stakeholder agree with the committee's recommendation

1. Does the stakeholder agree with the committee s recommendation.	N
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While we are generally pleased with your recommendation to reimburse with conditions, the members of the CLSG executive would like to bring to your attention a number of inaccuracies regarding the cost-effectiveness analysis, which we feel should be taken into consideration:

- Azacitidine cost: The cost quoted (\$8,400 per cycle or \$100,800 for 12 cycles) is for the brand name Vidaza. Most centres in Canada are now using generic azacitidine from Reddy's Laboratories, and have negotiated a cost of approximately \$240 per 100 mg vial. The actual cost is therefore \$3,360 per cycle, or \$40,320 for 12 cycles.
- 2. The costing of venetoclax is based on continuous dosing at 400 mg daily through the entire 28 day cycle. In the Viale A study, approximately 70% of patients had at least a one week reduction in treatment duration (i.e. to 21 days per cycle) after achieving complete remission, due to neutropenia +/- thrombocytopenia. Some of these (20-30%) had a subsequent reduction to 14 days per 28 day cycle, again mainly due to neutropenia. That is also the experience of physicians in Canada who have used this combination. Therefore, the average price calculation after achieving CR (generally from cycle 2 onward) should be reduced by 25% to account for this reduced average treatment duration.
- 3. Most physicians using the aza/venetoclax combination also use anti-fungal prophylaxis, usually with an azole drug (either fluconazole, posaconazole or voriconazole). This is done to reduce the risk of neutropenia-related fungal infections (according to ASCO/IDSA Clinical Practice Guidelines for neutropenia ≥ 7 days), and to reduce the cost of the venetoclax. Amongst Canadian leukemia physicians who have used the aza/ven combination, the use of azole antifungals is almost universal.

Due to CYP3A4 drug interactions, the concomitant use of azoles requires a dose reduction in venetoclax. For strong CYP3A inhibitors such as posaconazole this requires at least an 80% venetoclax dose reduction (to 50-70 mg per day), while the use of a moderate inhibitor such as fluconazole requires a 50% dose reduction in venetoclax (to 200 mg daily) to achieve comparable serum levels.

The price quoted for venetoclax is \$70 per 100 mg tablet = \$280 per day, or \$7,840 per cycle (\$94,080 per 12 cycles). Given the considerations outlined in 2 and 3 above, the actual average cost of venetoclax, if used in conjunction with fluconazole, would be \$3,920 for cycle 1 (28 days) and \$2,940

 \times

Yes

for cycles 2 - 12 (21 days). Therefore, the total cost for 12 cycles of venetoclax would be \$36,260. If posaconazole is used, this cost would be considerably less, but this agent is much more expensive than fluconazole.

Although not a cancer drug, the cost of the antifungal agent would also need to be taken int o consideration. The cost of generic fluconazole would be approximately \$8,000 per year.

Therefore, the estimated total cost of this combination treatment per year would be as follows:

Cycle 1: azacitidine \$3,360 + venetoclax \$3,920 = \$7,280 Cycle 2-12: azacitidine \$3,360 + venetoclax \$2,940 = \$6,300 per cycle, or \$69,300 Fluconazole = \$8,000 (approx.) for 12 cycles Total cost for one year = \$7,280 + \$69,300 + \$8,000 = \$84,580.

This total is considerably less that that used in the analysis, and would be more reflective of the expected real-world use of this combination in Canada. We would therefore respectfully recommend that your analysis be recalculated to take these numbers into consideration.

We would also advocate using azacitidine as the comparator for this analysis, is it is the most widely used single agent for this indication in the country, accounting for around 70% of patients who receive non-intensive single agent therapy (vs. approximately 30% for low-dose cytarabine). Furthermore, most of those who receive low-dose cytarabine (patients who progressed on azacitidine for MDS or who live too far from a cancer centre to receive azacitidine) would not be eligible for venetoclax + aza, for the same reasons.

Expert committee consideration of the stakeholder input		
2. Does the recommendation demonstrate that the committee has considered the		\boxtimes
stakeholder input that your organization provided to CADTH?	No	
Clarity of the draft recommendation		
3. Are the reasons for the recommendation clearly stated?	Yes	\boxtimes
3. Are the reasons for the recommendation clearly stated?		
4. Have the implementation issues been clearly articulated and adequately	Yes	\boxtimes
addressed in the recommendation?	No	
5. If applicable, are the reimbursement conditions clearly stated and the rationale	Yes	X
for the conditions provided in the recommendation?	No	

^a CADTH may contact this person if comments require clarification. Contact information will not be included in any public posting of this document by CADTH.

Appendix 2. Conflict of Interest Declarations for Clinician Groups

- To maintain the objectivity and credibility of the CADTH drug review programs, all participants in the drug review processes must disclose any real, potential, or perceived conflicts of interest.
- This conflict of interest declaration is required for participation. Declarations made do not negate or preclude the use of the feedback from patient groups and clinician groups.
- CADTH may contact your group with further questions, as needed.
- Please see the Procedures for CADTH Drug Reimbursement Reviews for further details.
- For conflict of interest declarations:
 - Please 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.
 - Please note that declarations are required for each clinician that contributed to the input.
 - If your clinician group provided input at the outset of the review, only conflict of interest declarations
 that are new or require updating need to be reported in this form. For all others, please list the
 clinicians who provided input are unchanged
 - Please add more tables as needed (copy and paste).
 - All new and updated declarations must be included in a single document.

A. Assistance with Providing the Feedback		
1. Did you receive help from outside your clinician group to complete this submission?	No	\boxtimes
	Yes	
If yes, please detail the help and who provided it.		
2. Did you receive help from outside your clinician group to collect or analyze any	No	\boxtimes
information used in this submission?	Yes	
If yes, please detail the help and who provided it.		
B. Previously Disclosed Conflict of Interest		
	Nia	
3. Were conflict of interest declarations provided in clinician group input that was	No	
submitted at the outset of the CADTH review and have those declarations remained	Yes	\boxtimes
unchanged? If no, please complete section C below.		
If yes, please list the clinicians who contributed input and whose declarations have not changed:		
Clinician 1 – Joseph Brandwein		
Clinician 2 – Andre Schuh		
Clinician 3 – Brian Leber		
Clinician 4 – Julie Bergeron		
Clinician 5 – Lalit Saini		
Clinician 6 – Mary Lynn Savoie		
Clinician 7 – Waleed Sabry		
Clinician 8 – Kristjan Paulson		
Clinician 9 – Yasser Abou Mourad		
Clinician 10 – John Storring		
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C. New or Updated Conflict of Interest Declarations

New or Up	dated Declaration for Clinician 1
Name	Please state full name

	Please add the date form was c				
		Please add the date form was completed (DD-MM-YYYY)			
_	I hereby certify that I have the authority to disclose all relevant information with respect to any matter involving this clinician or clinician group with a company, organization, or entity that may place this clinician or clinician group in a real, potential, or perceived conflict of interest situation.				
Conflict of I	nterest Declaration				
	panies or organizations that have who may have direct or indirect in				r the past two
			Check Approp	oriate Dollar Ran	ge
Company		\$0 to 5,000	\$5,001 to 10,000	\$10,001 to 50,000	In Excess of \$50,000
Add compan	y name				
Add compan	dd company name				
Add or remove rows as required					

New or Up	dated Declaration for Clinician 2
Name	Please state full name
Position	Please state currently held position
Date	Please add the date form was completed (DD-MM-YYYY)
	I hereby certify that I have the authority to disclose all relevant information with respect to any matter involving this clinician or clinician group with a company, organization, or entity that may place this clinician or clinician group in a real, potential, or perceived conflict of interest situation.

Conflict of Interest Declaration

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.

	Check Appropriate Dollar Range			
Company	\$0 to 5,000	\$5,001 to 10,000	\$10,001 to 50,000	In Excess of \$50,000
Add company name				
Add company name				
Add or remove rows as required				

New or Up	dated Declaration for Clinician 3
Name	Please state full name
Position	Please state currently held position
Date	Please add the date form was completed (DD-MM-YYYY)
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Conflict of Interest Declaration

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Company	\$0 to 5,000	\$5,001 to 10,000	\$10,001 to 50,000	In Excess of \$50,000	
Add company name					
Add company name					
Add or remove rows as required					

New or Up	dated Declaration for Clinician	4			
Name	Please state full name				
Position	Please state currently held posi	ition			
Date	Please add the date form was completed (DD-MM-YYYY)				
	I hereby certify that I have the authority to disclose all relevant information with respect to any matter involving this clinician or clinician group with a company, organization, or entity that may place this clinician or clinician group in a real, potential, or perceived conflict of interest situation.				
Conflict of Interest Declaration					
	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.				
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Add compa	Add company name				

New or Up	dated Declaration for Clinician 5
Name	Please state full name
Position	Please state currently held position
Date	Please add the date form was completed (DD-MM-YYYY)
	I hereby certify that I have the authority to disclose all relevant information with respect to any matter involving this clinician or clinician group with a company, organization, or entity that may place this clinician or clinician group in a real, potential, or perceived conflict of interest situation.

Conflict of Interest Declaration

Add or remove rows as required

Add company name

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.

	Check Appropriate Dollar Range			
Company	\$0 to 5,000	\$5,001 to 10,000	\$10,001 to 50,000	In Excess of \$50,000
Add company name				
Add company name				
Add or remove rows as required				



CADTH Reimbursement Review Feedback on Draft Recommendation

Stakeholder information						
CADTH project number	PC0238-000					
Brand name (generic)	Venclexta (venetoclax) Manufacturer: AbbVie					
Indication(s)	Indications: Venclexta is indicated, in combination with a hypomethylating in combination with low-dose cytarabine, in adult patients with diagnosed acute myeloid leukemia (AML) who are ineligible for chemotherapy. Manufacturer Requested Reimbursement Criteria¹: In combination with azacitidine for the treatment of patients we diagnosed acute myeloid leukemia (AML) who are 75 years of who have comorbidities that preclude use of intensive induction chemotherapy.	n newly or inter with new or older	/ nsive vly			
Organization	Ontario Health (Cancer Care Ontario) Hematology Cancer Dr Advisory Committee (Hem DAC)	ug				
Contact information ^a	Name: Dr. Tom Kouroukis Email: Phone:					
	1					
Stakeholder agreement wi	ith the draft recommendation					
1. Does the stakeholder ag	ree with the committee's recommendation.	Yes No				
possible, please identify the	eholder agrees or disagrees with the draft recommendation. W specific text from the recommendation and rationale.	henev	er			
Expert committee conside	eration of the stakeholder input					
	on demonstrate that the committee has considered the	Yes	\boxtimes			
	our organization provided to CADTH?	No				
If not, what aspects are missing from the draft recommendation?						
Clarity of the draft recomm	nendation					
	recommendation clearly stated?	Yes No				
If not, please provide details	regarding the information that requires clarification.					
Question arised based on the than stated in the report.	ne economic analysis – the cost of azacitidine is much lower wi	th gene	erics			

It is unclear why the reported pharmaeconomic ICER comparator was LDAC instead of aza from the VIALE-A trial. It would be relevant to know the ICER compared to azacitidine, give azacitidine is the current standard of care. There are cost mitigation strategies of using CYP3A inhibitors to lower venetoclax dosing a were not discussed.	n	
4. Have the implementation issues been clearly articulated and adequately	Yes	\boxtimes
addressed in the recommendation?	No	
If not, please provide details regarding the information that requires clarification.		
5. If applicable, are the reimbursement conditions clearly stated and the rationale	Yes	\boxtimes
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 - All new and updated declarations must be included in a single document.

A. Assistance with Providing the Feedback		
1. Did you receive help from outside your clinician group to complete this submission?	No	\boxtimes
	Yes	
If yes, please detail the help and who provided it.		
OH-CCO provided secretariat support to the DAC in completing this feedback.		
or 1-000 provided secretariat support to the DAO in completing this recuback.		
2. Did you receive help from outside your clincian group to collect or analyze any	No	\boxtimes
information used in this submission?	Yes	
If yes, please detail the help and who provided it.		
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B. Previously Disclosed Conflict of Interest		
3. Were conflict of interest declarations provided in clinician group input that was	No	
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Dr. Tom Kouroukis		
Dr. Tom KouroukisDr. Pierre Villeneuve		
Dr. Pierre Villeneuve		
 Dr. Pierre Villeneuve Dr. Lee Mozessohn Dr. Jordan Herst 		
 Dr. Pierre Villeneuve Dr. Lee Mozessohn Dr. Jordan Herst 		

C. New or Updated Conflict of Interest Declarations

New or Updated Declaration for Clinician 1	
Name	Please state full name
Position	Please state currently held position
Date	Please add the date form was completed (DD-MM-YYYY)

	I hereby certify that I have the authority to disclose all relevant information with respect to any matter involving this clinician or clinician group with a company, organization, or entity that may place this clinician or clinician group in a real, potential, or perceived conflict of interest situation.					
Conflict of Interest Declaration						
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Add compa	ny name					
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New or Up	dated Declaration for Clinician	2				
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Check Appropriate Dollar Range

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years AND who may have direct or indirect interest in the drug under review.

Conflict of Interest Declaration

Company

	\$0 to 5,000	\$5,001 to 10,000	\$10,001 to 50,000	In Excess of \$50,000
Add company name				
Add company name				
Add or remove rows as required				

New or Up	odated Declaration for Clinician	4			
Name	Please state full name				
Position	Please state currently held posi-	ition			
Date	Please add the date form was d	completed (DD-	MM-YYYY)		
	I hereby certify that I have the authority to disclose all relevant information with respect to any matter involving this clinician or clinician group with a company, organization, or entity that may place this clinician or clinician group in a real, potential, or perceived conflict of interest situation. Conflict of Interest Declaration				
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			10,000	50,000	\$50,000

New or Updated Declaration for Clinician 5			
Name	Please state full name		
Position	Please state currently held position		
Date	Please add the date form was completed (DD-MM-YYYY)		
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Conflict of Interest Declaration

Add company name

Add company name

Add or remove rows as required

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Check Appropriate Dollar Range				je
Company	\$0 to 5,000	\$5,001 to 10,000	\$10,001 to 50,000	In Excess of \$50,000
Add company name				
Add company name				
Add or remove rows as required				

CADTH Reimbursement Review

Feedback on Draft Recommendation

Stakeholder information	
CADTH project number	PC0238
Name of the drug and	Venetoclax with azacitidine for AML
Indication(s)	
Organization Providing	PAG
Feedback	

1. Recommendation revisions Please indicate if the stakeholder requires the expert review committee to reconsider or clarify its recommendation.				
Request for Reconsideration	Major revisions: A change in recommendation category or patient population is requested			
	Minor revisions: A change in reimbursement conditions is requested			
No Request for Reconsideration	Editorial revisions: Clarifications in recommendation text are requested	х		
	No requested revisions			

2. Change in recommendation category or conditions Complete this section if major or minor revisions are requested	
None.	

3. Clarity of the recommendation

Complete this section if editorial revisions are requested for the following elements

a) Recommendation rationale

In the Background section, PAG is suggesting the following revision, "Dose adjustments of venetoclax are required for patients receiving medications that are strong and moderate inhibitors of CYP3A enzymes."

In the Economic Evidence section, cost per course, PAG is requesting an updated price reduction of venetoclax using the publicly available list price.

b) Reimbursement conditions and related reasons
None.

c) Implementation guidance

In the Implementation Guidance section, sixth bullet, PAG is suggesting the following revision "Clinical experts indicated that, in clinical practice, azacitidine is *also* administered on a 5-2-2 dosing schedule."

In the Implementation Guidance section, seventh bullet, PAG is suggesting the following revision "There is no evidence to inform on the appropriate time frame to consider adding venetoclax to the treatment regimen of patients who are currently *also* receiving single agent azacitidine."

In the Implementation Guidance section, PAG is seeking clarity on whether high-risk MDS patients who aren't fit for intensive induction chemotherapy could use venetoclax and azacitidine as part of upfront treatment.

In the Discussion Points section, seventh bullet, PAG agrees that this text belongs in the Implementation Guidance section.

In the Discussion Points section, eight bullet, PAG agrees that the following, "Based on these data, it would be reasonable to consider the use of venetoclax plus azacitidine in patients with a history of treatment with a HMA for MDS" belongs in the Implementation Guidance section.

In the Discussion Points section, ninth bullet, PAG agrees that the following, "Therefore, pERC suggested that venetoclax plus azacitidine could be considered as a treatment option in patients with TP53 mutations" belongs in the Implementation Guidance section.

In the Discussion Points section, eleventh bullet, PAG is suggesting the following revision, "Feedback from clinical experts suggested that age is not a necessary component of eligibility for induction chemotherapy."