

# Hyperpolarization-Activated Cyclic Nucleotide-Gated (HCN) Channel Blocker (Corlanor) Prior Authorization with Quantity Limit Program Summary

This program applies to FlexRx Closed, FlexRx Open, FocusRx, GenRx Closed, GenRx Open, Health Insurance Marketplace, and KeyRx formularies.

This is a FlexRx Standard and GenRx Standard program.

The BCBS MN Step Therapy Supplement also applies to this program for all Commercial/HIM lines of business.

#### POLICY REVIEW CYCLE

Effective Date Date of Origin 9/1/2023 10/1/2016

#### FDA APPROVED INDICATIONS AND DOSAGE

Agent(s)	FDA Indication(s)	Notes	Ref#
Tablet Solution	To reduce the risk of hospitalization for worsening heart failure in adult patients with stable, symptomatic chronic heart failure with left ventricular ejection fraction less than or equal to 35%, who are in sinus rhythm with resting heart rate greater than or equal to 70 beats per minute and either are on maximally tolerated doses of beta blockers or have a contraindication to beta-blocker use.		1
	Treatment of stable symptomatic heart failure due to dilated cardiomyopathy (DCM) in pediatric patients aged 6 months and older, who are in sinus rhythm with an elevated heart rate.		

See package insert for FDA prescribing information: https://dailymed.nlm.nih.gov/dailymed/index.cfm

#### CLINICAL RATIONALE

Heart Failure	The ACCF/AHA/HFSA (American College of Cardiology/Heart Failure Society of America) 2022 Guideline for the Management of Heart Failure states that ivabradine can be beneficial to reduce HF hospitalizations and cardiovascular death for patients with symptomatic (NYHA class II-III) stable chronic heart failure with reduced ejection fraction (HFrEF) (LVEF less than or equal to 35%) who are receiving guideline directed medical therapy (GDMT), including a beta blocker at maximum tolerated dose, and who are in sinus rhythm with a heart rate of 70 bpm or greater at rest.(3)  The ACCF/AHA guideline classifies heart failure by the following in relation to New York Heart Association (NYHA) Functional Classification:(2)					
	ACCF/AHA Stages of HF	ACCF/AHA Stage Description	NYHA Functional Classification	NYHA Functional Classification Description		
	А	At high risk for HF but without structural heart disease or symptoms of HF	None	None		

	В	Structural heart disease but without signs or symptoms of HF	I	No limitation of physical activity. Ordinary physical activity does not cause symptoms of HF
	С	Structural heart disease with prior or current symptoms of HF	I	No limitation of physical activity. Ordinary physical activity does not cause symptoms of HF
			II	Slight limitation of physical activity. Comfort able at rest, but ordinary physical activity results in symptoms of HF
			III	Marked limitation of physical activity. Comfort able at rest, but less than ordinary activity causes symptoms of HF
			IV	Unable to carry on any physical activity without symptoms of HF, or symptoms of HF at rest
	D	Refractory HF requiring specialized interventions	IV	Unable to carry on any physical activity without symptoms of HF, or symptoms of HF at rest
Dilated Cardiomyopathy (DCM)	or biventricular dilationaling conditions (artery disease. Muta	tion and impaired con for example, hyperte ations in several gene	straction that is not ension and valvular heres can cause DCM, inc	rized by left ventricular xplained by abnormal eart disease) or coronary cluding genes encoding
	can result from differant infection (mostly endocrine or autoim presentation of DCN Echocardiography a dysfunction and advanalyses of an endoinfection is suspected approaches to prevent with DCM. Cardiac results in the control of t	erent etiologies, include viral); exposure to define the diseases. The first make a correct and indicate the disease indicate the disease myocardial remains the disease myocardial biopsy said. As DCM eventually	ding inflammation of lrugs, toxins or allerg heterogeneous etiolo timely diagnosis cha nniques are required odeling. Immunologio mple are indicated way leads to impaired course ure are the first-line to rapy and implantable	ogy and clinical Illenging. to assess ventricular cal and histological hen inflammation or ontractility, standard treatment for patients cardioverter—

Efficacy	Ivabradine is a hyperpolarization-activated cyclic nucleotide-gated channel blocker that reduces the spontaneous pacemaker activity of the cardiac sinus node by selectively inhibiting the I current, resulting in heart rate reduction with no effect on ventricular repolarization and no effects on myocardial contractility. It gained its indication for heart failure in adult patients via the systolic heart failure treatment with the Ir inhibitor ivabradine trial (SHIFT). This was a randomized, double-blind trial comparing Corlanor and placebo in 6558 patients with stable NYHA class II to IV heart failure, left ventricular ejection fraction less than or equal to 35%, and resting heart rate greater than or equal to 70 bpm. Patients had to have been clinically stable for at least 4 weeks on an optimized and stable clinical regimen, which included maximally tolerated doses of beta blockers and, in most cases, ACE inhibitors or ARBs, spironolactone, and diuretics, with fluid retention and symptoms of congestion minimized. SHIFT demonstrated that Corlanor reduced the risk of the combined endpoint of hospitalization for worsening heart failure or cardiovascular death based on a time-to-event analysis. Because Corlanor was effective in improving outcomes in patients with dilated cardiomyopathy (DCM) in SHIFT, the effect on heart rate was considered a reasonable basis to infer clinical benefits in pediatric patients with DCM. Thus, Corlanor was evaluated for its effect on heart rate in a multi-center, randomized, double-blind, placebo-controlled trial in children with symptomatic DCM. The study collected data from 116 patients 6 months to less than 18 years old with DCM in sinus rhythm, NYHA/Ross class II to IV heart failure, and left ventricular ejection fraction less than or equal to 45%. A statistically significant reduction in heart rate was observed with Corlanor compared to placebo at the end of the titration period (-23 plus or minus 11 bpm vs2 plus or minus 12 bpm respectively).(1)
Safety	<ul> <li>Ivabradine is contraindicated in patients with:</li> <li>Acute decompensated heart failure</li> <li>Clinically significant hypotension</li> <li>Sick sinus syndrome, sinoatrial block, or 3rd degree AV block, unless a functioning demand pacemaker is present</li> <li>Clinically significant bradycardia</li> <li>Severe hepatic impairment</li> <li>Pacemaker dependence (heart rate maintained exclusively by the pacemaker)</li> <li>Concomitant use of strong cytochrome P450 3A4 (CYP3A4) inhibitors(1)</li> </ul>

# **REFERENCES**

Number	Reference
1	Corlanor prescribing information. Amgen Inc. August 2021.
	2013 ACCF/AHA Guideline for the Management of Heart Failure. Accessed at <a href="http://circ.ahajournals.org/">http://circ.ahajournals.org/</a> .
	2022 ACC/AHA/HFSA Guideline for the Management of Heart Failure. A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines. Available at: <a href="https://www.acc.org/guidelines/hubs/heart-failure">https://www.acc.org/guidelines/hubs/heart-failure</a>
	Heinz-Peter S, Fairweather D, Calforio AL, et. al. Dilated cardiomyopathy. <i>Nat Rev Dis</i> Primers. 2018; 5(1): 32. Available at: <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5574280/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5574280/</a>

# POLICY AGENT SUMMARY PRIOR AUTHORIZATION

Target Brand Agent(s)	Target Generic Agent(s)	Strength	Targeted MSC	Available MSC	Final Age Limit	Preferred Status
Corlanor	ivabradine hcl oral soln	5 MG/5ML	M;N;O;Y	N		
Corlanor	Ivabradine HCl Tab ; ivabradine hcl tab	5 ; 5 MG ; 7.5 ; 7.5 MG	M;N;O;Y	N		

#### POLICY AGENT SUMMARY OUANTITY LIMIT

Target Brand Agent Name(s)		Strengt h	QL Amount	Dose Form	Day Supply		Addtl QL Info	Allowed Exceptions	Targete d NDCs When Exclusi ons Exist
Corlanor	Ivabradine HCl Oral Soln 5 MG/5ML (Base Equiv)	5 MG/5ML	600	mL	30	DAYS			
Corlanor	Ivabradine HCl Tab 5 MG (Base Equiv)	5 ; 5 MG	60	Tablets	30	DAYS			
Corlanor	Ivabradine HCl Tab 7.5 MG (Base Equiv)	7.5 ; 7.5 MG	60	Tablets	30	DAYS			

### CLIENT SUMMARY - PRIOR AUTHORIZATION

Target Brand Agent Name(s)	Target Generic Agent Name(s)	Strength	Client Formulary
Corlanor	ivabradine hcl oral soln	5 MG/5ML	FlexRx Closed; FlexRx Open; FocusRx; GenRx Closed; GenRx Open; Health Insurance Marketplace/BasicRx; KeyRx
Corlanor	Ivabradine HCl Tab ; ivabradine hcl tab	5 ; 5 MG ; 7.5 ; 7.5 MG	FlexRx Closed; FlexRx Open; FocusRx; GenRx Closed; GenRx Open; Health Insurance Marketplace/BasicRx; KeyRx

### CLIENT SUMMARY - OUANTITY LIMITS

Target Brand Agent Name(s)	Target Generic Agent Name(s)	Strength	Client Formulary
Corlanor	Ivabradine HCl Oral Soln 5 MG/5ML (Base Equiv)	5 MG/5ML	FlexRx Closed; FlexRx Open; FocusRx; GenRx Closed; GenRx Open; Health Insurance Marketplace/BasicRx; KeyRx
Corlanor	Ivabradine HCl Tab 5 MG (Base Equiv)	5 ; 5 MG	FlexRx Closed; FlexRx Open; FocusRx; GenRx Closed; GenRx Open; Health Insurance Marketplace/BasicRx; KeyRx
Corlanor	Ivabradine HCl Tab 7.5 MG (Base Equiv)	7.5 ; 7.5 MG	FlexRx Closed; FlexRx Open; FocusRx; GenRx Closed; GenRx Open; Health Insurance Marketplace/BasicRx; KeyRx

### PRIOR ALITHORIZATION CLINICAL CRITERIA FOR APPROVAL

PRIOR A	AUTHORIZATION CLINICAL CRITERIA FOR APPROVAL
Module	Clinical Criteria for Approval
	Initial Evaluation
	Target Agent(s) will be approved when ALL of the following are met:
	ONE of the following:     A. The requested agent is eligible for continuation of therapy AND ONE of the following:
	Agents Eligible for Continuation of Therapy
	All target agents are eligible for continuation of therapy
	<ol> <li>Information has been provided that indicates the patient has been treated with the requested agent (starting on samples is not approvable) within the past 90 days OR</li> <li>The prescriber states the patient has been treated with the requested agent (starting on samples is not approvable) within the past 90 days AND is at risk if therapy is changed OR</li> </ol>
	B. BOTH of the following:
	<ol> <li>The patient has stable, symptomatic heart failure (e.g., NYHA Class II, III, IV; ACCF/AHA Class C, D) AND</li> <li>ONE of the following:</li> </ol>
	A. ALL of the following:  1. The patient has heart failure due to dilated
	cardiomyopathy (DCM) <b>AND</b>
	2. The patient is in sinus rhythm with an elevated heart rate <b>OR</b>
	B. ALL of the following:
	1. The patient has a baseline OR current left ventricular ejection fraction of less than or equal to 35% <b>AND</b> 2. Prior to initiating therapy with the requested agent, the patient is in sinus rhythm with a resting heart rate of greater than or equal to 70 beats per minute <b>AND</b>
	3. ONE of the following:  A. The patient will be using standard CHF therapy (e.g., beta blockers, ACE inhibitors) in
	combination with the requested agent <b>OR</b>
	B. The patient has an intolerance, hypersensitivity or FDA labeled contraindication to ALL standard CHF therapy (e.g., beta blockers, ACE inhibitors) that is not expected to occur with the requested agent
	OR C. The patient's medication history includes use of
	standard CHF therapy (e.g., beta blockers, ACE inhibitors) <b>OR</b>
	D. BOTH of the following:  1. The prescriber has stated that the patient
	has tried standard CHF therapy (e.g., beta blockers, ACE inhibitors) <b>AND</b> 2. Standard CHF therapy (e.g., beta
	blockers, ACE inhibitors) was discontinued due to lack of effectiveness or an adverse event <b>OR</b>
	E. The patient is currently being treated with the requested agent as indicated by ALL of the following:

Module	Clinical Criteria for Approval
	1. A statement by the prescriber that the patient is currently taking the requested agent AND 2. A statement by the prescriber that the patient is currently receiving a positive therapeutic outcome on requested agent AND 3. The prescriber states that a change in therapy is expected to be ineffective or cause harm OR  F. The prescriber has provided documentation that standard CHF therapy (e.g., beta blockers, ACE inhibitors) cannot be used due to a documented medical condition or comorbid condition that is likely to cause an adverse reaction, decrease ability of the patient to achieve or maintain reasonable functional ability in performing daily activities or cause physical or mental harm AND  2. If the patient has an FDA approved indication, then ONE of the following:  A. The patient's age is within FDA labeling for the requested indication for the requested agent OR  B. The prescriber has provided information in support of using the requested agent for the patient's age for the requested indication AND  3. The patient does NOT have any FDA labeled contraindications to the requested agent Length of Approval: 12 months  NOTE: If Quantity Limit applies, please refer to Quantity Limit Criteria.  Renewal Evaluation
	<ol> <li>The patient has been previously approved for the requested agent through the plan's Prior Authorization process AND</li> <li>The patient has had clinical benefit with the requested agent AND</li> <li>If the requested agent is being used for heart failure (not due to DCM), ONE of the following:         <ul> <li>A. The patient will be using standard CHF therapy (e.g., beta blockers, ACE inhibitors) in combination with the requested agent OR</li> <li>B. The patient has an intolerance, hypersensitivity, or FDA labeled contraindication to ALL standard CHF therapy (e.g., beta blockers, ACE inhibitors) that is not expected to occur with the requested agent OR</li> </ul> </li> <li>C. The patient's medication history includes use of standard CHF therapy (e.g., beta blockers, ACE inhibitors) OR</li> <li>D. BOTH of the following:         <ul> <li>1. The prescriber has stated that the patient has tried standard CHF therapy (e.g., beta blockers, ACE inhibitors) AND</li> <li>2. Standard CHF therapy (e.g., beta blockers, ACE inhibitors) was discontinued due to lack of effectiveness or an adverse event OR</li> <li>3. The patient is currently being treated with the requested agent as indicated by ALL of the following:</li></ul></li></ol>

ineffective or cause harm **OR** 

4. The prescriber has provided documentation that standard CHF therapy (e.g., beta blockers, ACE inhibitors) cannot be used due to a documented

Module	Clinical Criteria for Approval
	medical condition or comorbid condition that is likely to cause an adverse reaction, decrease ability of the patient to achieve or maintain reasonable functional ability in performing daily activities or cause physical or mental harm <b>AND</b>
	4. The patient does NOT have any FDA labeled contraindications to the requested agent
	Length of Approval: 12 months
	NOTE: If Quantity Limit applies, please refer to Quantity Limit Criteria.

# QUANTITY LIMIT CLINICAL CRITERIA FOR APPROVAL

Module	Clinical Criteria for Approval
QL with	Quantity Limit for the Target Agent(s) will be approved when ONE of the following is met:
PA	<ol> <li>The requested quantity (dose) does NOT exceed the program quantity limit OR</li> <li>ALL of the following:         <ul> <li>A. The requested quantity (dose) is greater than the program quantity limit AND</li> <li>B. The requested quantity (dose) does NOT exceed the FDA maximum labeled dose for the requested indication AND</li> <li>C. The requested quantity (dose) cannot be achieved with a lower quantity of a higher strength that does not exceed the program quantity limit OR</li> </ul> </li> <li>ALL of the following:         <ul> <li>A. The requested quantity (dose) is greater than the program quantity limit AND</li> <li>B. The requested quantity (dose) is greater than the maximum FDA labeled dose for the requested indication AND</li> <li>C. The prescriber has provided information in support of therapy with a higher dose for the requested indication</li> </ul> </li> </ol>
	Length of approval: 12 months