

Prior Authorization Review Panel

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CHC-MCO Policy Submission

A separate copy of this form must accompany each policy submitted for review. Policies submitted without this form will not be considered for review.

Plan: PA Health & Wellness	Submission Date: 02/01/2022	
Policy Number: PA.CP.PHAR.440	Effective Date: 01/2020 Revision Date: 01/2022	
Policy Name: Elexacaftor/Ivacaftor/Tezacaftor; Ivacaftor (Trikafta)		
 Type of Submission – <u>Check all that apply</u>: □ New Policy ✓ Revised Policy* □ Annual Review - No Revisions □ Statewide PDL - Select this box when submitting policies when submitting policies for drug classes included on the Statewide on the State		
*All revisions to the policy <u>must</u> be highlighted using track char	nges throughout the document.	
Please provide any changes or clarifying information for the policy below:		
1Q 2022 annual review: include pediatric expansion and new dose strength; references reviewed and updated.		
Name of Authorized Individual (Please type or print): Venkateswara R. Davuluri, MD	Signature of Authorized Individual:	



Clinical Policy: Elexacaftor/Ivacaftor/Tezacaftor; Ivacaftor (Trikafta)

Reference Number: PA.CP.PHAR.440 Effective Date: 01/2020 Last Review Date: 01/2022

Revision Log

Description

Elexacaftor/ivacaftor/tezacaftor (TrikaftaTM) is a triple combination drug for cystic fibrosis (CF).

- Elexacaftor and tezacaftor bind to different sites on the cystic fibrosis transmembrane conductance regulator (CFTR) protein and have an additive effect in facilitating the cellular processing and trafficking of F508del-CFTR to increase the amount of CFTR protein delivered to the cell surface compared to either molecule alone.
- Ivacaftor potentiates the channel open probability (or gating) of the CFTR protein at the cell surface.
- The combined effect of elexacaftor, tezacaftor, and ivacaftor is increased quantity and function of F508del-CFTR at the cell surface, resulting in increased CFTR activity as measured by CFTR mediated chloride transport.

FDA Approved Indication(s)

Trikafta is indicated for the treatment of cystic fibrosis (CF) in patients aged 12 years and older who have at least one F508del mutation in the CFTR gene or a mutation in the CFTR gene that is responsive based on in vitro data.

If the patient's genotype is unknown, an FDA-cleared CF mutation test should be used to confirm the presence of at least one F508del mutation or a mutation that is responsive based on in vitro data.

Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of health plans affiliated with PA Health & Wellness[®] that Trikafta is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

- A. Cystic Fibrosis (must meet all):
 - 1. Diagnosis of CF;
 - 2. Age ≥ 6 years;
 - 3. Prescribed by or in consultation with a pulmonologist or cystic fibrosis specialist;
 - 4. Documentation indicates member has baseline forced expiratory volume in 1 second (FEV1), unless member is unable to perform spirometry testing;
 - 5. Confirmation of one of the following (a or b):
 - a. Member has at least one *F508del* mutation in the CFTR gene;
 - b. Member has a mutation in the CFTR gene that is responsive to Trikafta based on in vitro data (*see Appendix E for examples*);

CLINICAL POLICY Elexacaftor/Ivacaftor/Tezacaftor; Ivacaftor



- 6. Trikafta is not prescribed concurrently with other CFTR modulators (e.g., Orkambi[®], Kalydeco[®], Symdeko[®]);
- 7. Dose does not exceed (a or b):
 - Age 6 to < 12 years and weight < 30 kg: elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 150 mg (2 tablets elexacaftor 50 mg/tezacaftor 25 mg/ivacaftor 37.5 mg and 1 tablet ivacaftor 75 mg) per day;
 - b. Age 6 to < 12 years and weight ≥ 30 kg, or age ≥ 12 years: elexacaftor 200 mg/tezacaftor 100 mg/ivacaftor 300 mg (2 tablets elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg and 1 tablet ivacaftor 150 mg) per day.

Approval duration: 6 months

B. Other diagnoses/indications

1. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): PA.CP.PMN.53

II. Continued Therapy

- A. Cystic Fibrosis (must meet all):
 - 1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01) applies;
 - 2. Member is benefiting from Trikafta based on the prescriber's assessment;
 - 3. Trikafta is not prescribed concurrently with other CFTR modulators (e.g., Orkambi, Kalydeco, Symdeko);
 - 4. If request is for a dose increase, new dose does not exceed (a or b):
 - Age 6 to < 12 years and weight < 30 kg: elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 150 mg (2 tablets elexacaftor 50 mg/tezacaftor 25 mg/ivacaftor 37.5 mg and 1 tablet ivacaftor 75 mg) per day;
 - b. Age 6 to < 12 years and weight ≥ 30 kg, or age ≥ 12 years: elexacaftor 200 mg/tezacaftor 100 mg/ivacaftor 300 mg (2 tablets elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg and 1 tablet ivacaftor 150 mg) per day.

Approval duration: 12 months

B. Other diagnoses/indications (must meet 1 or 2):

1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01) applies.

Approval duration: Duration of request or 6 months (whichever is less); or

2. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): PA.CP.PMN.53

III. Diagnoses/Indications for which coverage is NOT authorized:

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – PA.CP.PMN.53

IV. Appendices/General Information

CLINICAL POLICY Elexacaftor/Ivacaftor/Tezacaftor; Ivacaftor



Appendix A: Abbreviation/Acronym Key ACFLD: advanced cystic fibrosis lung disease CF: cystic fibrosis CFF: Cystic Fibrosis Foundation

CFTR: cystic fibrosis transmembrane conductance regulator FDA: Food and Drug Administration ppFEV1: percent predicted forced expiratory volume in 1 second

Appendix B: Therapeutic Alternatives Not applicable

Appendix C: Contraindications/Boxed Warnings None reported

Appendix D: General Information

- Regarding the diagnostic criteria for CF:
 - The Cystic Fibrosis Foundation (CFF) guidelines state that CFTR dysfunction needs to be confirmed with an elevated sweat chloride $\geq 60 \text{ mmol/L}$.
 - \circ "Genetic testing confirming the presence of two disease-causing mutations in CFTR gene" is used to ensure that whether heterozygous or homozygous, there are two disease-causing mutations in the CFTR gene, one from each parental allele. One of those two mutations must be an *F508del* mutation but does not necessarily require both.
- Most children can do spirometry by age 6, though some preschoolers are able to perform the test at a younger age. Some young children aren't able to take a deep enough breath and blow out hard and long enough for spirometry. Forced oscillometry is another way to test lung function in young children. This test measures how easily air flows in the lungs (resistance and compliance) with the use of a machine.
- CFF 2020 guidelines for advanced cystic fibrosis lung disease (ACFLD):
 - Define ACFLD as ppFEV1 < 40% when stable or referred for lung transplantation evaluation or previous intensive care unit (ICU) admission for respiratory failure, hypercarbia, daytime oxygen requirement at rest (excluding nocturnal use only), pulmonary hypertension, severe functional impairment from respiratory disease (New York Heart Association Class IV), six-minute walk test distance < 400m.
 - No recommendations on the start or continuation of CFTR modulator therapy with ACFLD guidelines.
 - Treatment recommendations included: lung transplantation, supplemental oxygen, continuous alternating inhaled antibiotics, and systemic corticosteroids.

List of CFTR Gene Mutations that are Responsive to Trikafta					
3141del9	E822K	G1069R	L967S	R117L	S912L
546insCTA	<i>F191V</i>	<i>G1244E</i>	L997F	R117P	S945L
A46D	F311del	G1249R	L1077P	R170H	S977F
A120T	F311L	G1349D	L1324P	R258G	S1159F
A234D	F508C	H139R	L1335P	R334L	S1159P
A349V	F508C;	H199Y	L1480P	R334Q	S1251N

Appendix E: CFTR Gene Mutations that are Responsive to Trikafta

CLINICAL POLICY Elexacaftor/Ivacaftor/Tezacaftor; Ivacaftor



List of CFTR G	ene Mutation	s that are Res	sponsive to Trikafta	1	
	$S1251N^{\dagger}$				
A455E	F508del	H939R	M152V	R347H	S1255P
A554E	F575Y	H1054D	M265R	R347L	T338I
A1006E	F1016S	H1085P	M952I	R347P	T1036N
A1067T	F1052V	H1085R	M952T	R352Q	T1053I
D110E	F1074L	H1375P	M1101K	R352W	V201M
D110H	F1099L	I148T	P5L	R553Q	V232D
D192G	G27R	1175V	P67L	R668C	V456A
D443Y	G85E	1336K	P205S	R751L	V456F
D443Y;G576A;	G126D	I502T	P574H	R792G	V562I
$R668C^{\dagger}$					
D579G	G178E	<i>I601F</i>	Q98R	R933G	V754M
D614G	G178R	<i>I618T</i>	Q237E	R1066H	V1153E
D836Y	<i>G194R</i>	I807M	Q237H	R1070Q	V1240G
D924N	G194V	1980K	Q359R	R1070W	V1293G
D979V	G314E	<i>I1027T</i>	Q1291R	R1162L	W361R
D1152H	G463V	111 3 9V	<i>R31L</i>	R1283M	W1098C
D1270N	G480C	<i>I1269N</i>	R74Q	R1283S	W1282R
E56K	G551D	11366N	<i>R74W</i>	S13F	Y109N
E60K	G551S	K1060T	$R74W;D1270N^{\dagger}$	S341P	Y161D
E92K	G576A	L15P	<i>R74W;V201M[†]</i>	S364P	<i>Y161S</i>
E116K	G576A;	L165S	R74W;V201M;	S492F	Y563N
	$R668C^{\dagger}$		$D1270N^{\dagger}$		
E193K	G622D	L206W	R75Q	S549N	<i>Y1014C</i>
E403D	G628R	L320V	R117C	S549R	Y1032C
E474K	G970D	L346P	R117G	S589N	
E588V	G1061R	L453S	R117H	S737F	

• [†] Complex/compound mutations where a single allele of the CFTR gene has multiple mutations; these exist independent of the presence of mutations on the other allele.

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
CF	Pediatric patients age 6 years to less than 12	elexacaftor 100 mg/
	years weighing less than 30 kg:	tezacaftor 50 mg/
	• <u>Morning dose</u> : 2 tablets (each containing	ivacaftor 150 mg per day
	elexacaftor 50 mg/tezacaftor 25	
	mg/ivacaftor 37.5 mg)	
	• <u>Evening dose</u> : 1 tablet of ivacaftor 75 mg	
	Adults and pediatric patients age 12 years and older:	elexacaftor 200 mg/ tezacaftor 100 mg/ ivacaftor 300 mg per day



Indication	Dosing Regimen	Maximum Dose
	 <u>Morning dose</u>: 2 tablets (each containing elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg) <u>Evening dose</u>: 1 tablet of ivacaftor 150 mg Morning and evening dose should be taken approximately 12 hours apart with fatcontaining food 	

VI. Product Availability

Tablets: co-packaged fixed dose combination containing elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg and ivacaftor 150 mg; co-packaged fixed dose combination containing elexacaftor 50 mg/tezacaftor 25 mg/ivacaftor 37.5 mg and ivacaftor 75 mg

VII. References

- 1. Trikafta Prescribing Information. Boston, MA: Vertex Pharmaceuticals, Inc.; October 2021. Available at: <u>https://www.trikafta.com/</u>. Accessed October 29, 2021.
- 2. Ren CL, Morgan RL, Oermann C, et al. Cystic Fibrosis Foundation pulmonary guidelines: Use of cystic fibrosis transmembrane conductance regulator modulator therapy in patients with cystic fibrosis. Ann Am Thorac Soc. 2018; 15(3): 271-280.
- 3. Farrell PM, White TB, Ren CL, et al. Diagnosis of cystic fibrosis: consensus guidelines from the Cystic Fibrosis Foundation. J Pediatr. 2017 Feb;181S:S4-S15.e1.
- 4. Goss CH, Burns JL. Exacerbations in cystic fibrosis. 1: Epidemiology and pathogenesis. Thorax. 2007;62(4):360–367.
- 5. Flume PA, Mogayzel PJ Jr, Robinson KA, et al. Clinical Practice Guidelines for Pulmonary Therapies Committee. Cystic fibrosis pulmonary guidelines: treatment of pulmonary exacerbations. Am J Respir Crit Care Med. 2009 Nov 1;180(9):802-8.
- 6. Kapnadak SG, Dimango E, Hadjiliadis D, et al. Cystic Fibrosis Foundation consensus guidelines for the care of individuals with advanced cystic fibrosis lung disease. J Cyst Fibros. 2020 May;19(3):344-354.
- 7. Mogayzel PJ Jr, Naureckas ET, Robinson KA, et al. Pulmonary Clinical Practice Guidelines Committee. Cystic fibrosis pulmonary guidelines. Chronic medications for maintenance of lung health. Am J Respir Crit Care Med. 2013 Apr 1;187(7):680-9.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created	01/2020	
1Q 2021 annual review: no significant changes; references reviewed and updated.	01/2021	
1Q 2022 annual review: include pediatric expansion and new dose strength; references reviewed and updated.	01/2022	