

Pharmacy Policy

Cystic Fibrosis Agents

Policy Number: 9.100

Version Number: 2

Version Effective Date: 1/1/2022

Product Applicability		<input type="checkbox"/> All Plan+ Products
Well Sense Health Plan		Boston Medical Center HealthNet Plan
<input type="checkbox"/> New Hampshire Medicaid	<input type="checkbox"/> MassHealth – MCO	<input type="checkbox"/> MassHealth – ACO
	<input checked="" type="checkbox"/> Qualified Health Plans/ConnectorCare/Employer Choice Direct	<input type="checkbox"/> Senior Care Options

Note: Disclaimer and audit information is located at the end of this document.

Prior Authorization Policy

Products Affected:

- **Kalydeco® (ivacaftor)**
- **Symdeko™ (tezacaftor/ivacaftor)**
- **Orkambi® (lumacaftor/ivacaftor)**
- **Trikafta™ (elexacaftor/tezacaftor/ivacaftor)**

The Plan may authorize coverage of the above products for members meeting the following criteria:

Covered Use	All FDA approved indications not otherwise excluded
Exclusion Criteria	Use of concurrent therapy Kalydeco®, Symdeko™, Trikafta or Orkambi®
Required Medical Information	<p><u>Kalydeco®(ivacaftor)</u></p> <ol style="list-style-type: none"> 1. Diagnosis of Cystic Fibrosis; AND 2. Genetic testing documenting a confirmed presence of one of the mutations listed in the FDA

* Plan refers to Boston Medical Center Health Plan, Inc. and its affiliates and subsidiaries offering health coverage plans to enrolled members. The Plan operates in Massachusetts under the trade name Boston Medical Center HealthNet Plan and in other states under the trade name Well Sense Health Plan.

	<p>package labeling (see Appendix A). AND</p> <p>3. If request is for oral granules one of the following:</p> <ol style="list-style-type: none"> a. Member must be between 4 months and 10 years of age OR b. Member has documented difficulty swallowing tablets. <p><u>Symdeko™ (tezacaftor/ivacaftor)</u></p> <ol style="list-style-type: none"> 1. Diagnosis of Cystic Fibrosis; AND 2. Genetic testing documenting a confirmed presence of one of the mutations listed in the FDA package labeling (see Appendix A). <p><u>Orkambi® (lumacaftor/ivacaftor)</u></p> <ol style="list-style-type: none"> 1. Diagnosis of Cystic Fibrosis; AND 2. Genetic testing documenting a confirmed presence of homozygous <i>F508del</i> mutation in the <i>CFTR</i> gene. AND 3. If request is for oral granules one of the following: <ol style="list-style-type: none"> a. Member must be between 2 to 5 years of age OR b. Member has documented difficulty swallowing tablets. <p><u>Trikafta (Elexacaftor–Tezacaftor–Ivacaftor)</u></p> <ol style="list-style-type: none"> 1. Diagnosis of Cystic Fibrosis AND 2. Genetic testing documenting a confirmed presence of heterozygous F508del mutation in the CFTR gene OR a mutation in the CFTR gene that is responsive based on in vitro data from the package insert (see Appendix A).
Age Restriction	<p>Kalydeco® (ivacaftor) – 4 months of age and older (oral granules); 6 years or older (tablets)</p> <p>Symdeko™ (tezacaftor/ivacaftor) – 6 years of age and older</p> <p>Orkambi® (lumacaftor/ivacaftor) – 2 years of age and older (oral granules); 6 years of age or older (tablets)</p> <p>Trikafta (Elexacaftor–Tezacaftor–Ivacaftor) -6 years of age and older</p>
Prescriber Restriction	The prescriber is an appropriate specialist such as a pulmonologist or endocrinologist.
Coverage Duration	<p>Initial: 6 months</p> <p>Reauthorization: 1 year</p>
Other criteria	<p>Reauthorization</p> <p>Documentation of the following:</p> <ol style="list-style-type: none"> 1. Clinical response to therapy (the patient has shown improvement or stabilization in FEV1 compared to pre-therapy/baseline levels)

* Plan refers to Boston Medical Center Health Plan, Inc. and its affiliates and subsidiaries offering health coverage plans to enrolled members. The Plan operates in Massachusetts under the trade name Boston Medical Center HealthNet Plan and in other states under the trade name Well Sense Health Plan.

Clinical Background Information and References

1. Trikafta® [package insert]. Cambridge (MA): Vertex Pharmaceuticals, Inc; June 2021.
2. Katkin J. Cystic fibrosis: clinical manifestations and diagnosis. UpToDate. Last updated December 11,2015. Accessed February 2016. Available from <http://www.uptodate.com>.
3. Simon R. Cystic fibrosis: overview of the treatment of lung disease. UpToDate. Last updated January 6, 2016. Accessed February 2016. Available from <http://www.uptodate.com>.
4. Flume P, O’Sullivan B, Robinson K et al. Cystic fibrosis pulmonary guidelines: chronic medications for maintenance of lung health. *Am J Respir Crit Care Med*. 2007;176:957-69.
5. Kalydeco® [package insert]. Cambridge (MA): Vertex Pharmaceuticals, Inc; April 2019.
6. Orkambi (lumacaftor/ivacaftor) [prescribing information]. Boston, MA: Vertex Pharmaceuticals Incorporated; September 2016.
7. Mogayzel PJ Jr, et al. Cystic Fibrosis Pulmonary Guidelines: Chronic Medications for Maintenance of Lung health. *Am J Respir Crit Care Med*. 2013 Apr;187 (7): 680-9. <https://www.cff.org/Care/Clinical-Care-Guidelines/Respiratory-Clinical-Care-Guidelines/Chronic-Medications-to-Maintain-Lung-Health-Clinical-Care-Guidelines/>
8. Symdeko [package insert]. Boston, MA: Vertex Pharmaceuticals, Inc.; June 2019.

Appendix A – Mutations Responsive to Kalydeco, Symdeko™, Trikafta

The FDA approved package insert lists several mutations that are responsive to Kalydeco, Symdeko and Trikafta.

List of CFTR Gene Mutations that Produce CFTR Protein and are Responsive to <i>Kalydeco</i>				
711+3A→G*	F311del	I148T	R75Q	S589N
2789+5G→A*	F311L	I175V	R117C*	S737F
3272-26A→G*	F508C	I807M	R117G	S945L*
3849+10kbC→T*	F508C;S1251N†	I1027T	R117H*	S977F*
A120T	F1052V	I1139V	R117L	S1159F
A234D	F1074L	K1060T	R117P	S1159P
A349V	G178E	L206W*	R170H	S1251N*
A455E*	G178R*	L320V	R347H*	S1255P*
A1067T	G194R	L967S	R347L	T338I
D110E	G314E	L997F	R352Q*	T1053I
D110H	G551D*	L1480P	R553Q	V232D
D192G	G551S*	M152V	R668C	V562I
D579G*	G576A	M952I	R792G	V754M
D924N	G970D	M952T	R933G	V1293G
D1152H*	G1069R	P67L*	R1070Q	W1282R
D1270N	G1244E*	Q237E	R1070W*	Y1014C
E56K	G1249R	Q237H	R1162L	Y1032C
E193K	G1349D*	Q359R	R1283M	
E822K	H939R	Q1291R	S549N*	
E831X*	H1375P	R74W	S549R*	

* Plan refers to Boston Medical Center Health Plan, Inc. and its affiliates and subsidiaries offering health coverage plans to enrolled members. The Plan operates in Massachusetts under the trade name Boston Medical Center HealthNet Plan and in other states under the trade name Well Sense Health Plan.

*Clinical data exists for these mutations

†Complex/compound mutations. Most people with CF have 2 CF mutations, 1 on each copy of the CF gene. However, in rare instances, 1 copy of the CF gene can have more than 1 mutation. This is called a compound, or complex, mutation.

List of CFTR Gene Mutations that Produce CFTR Protein and are Responsive to Symdeko

E56K	R117C	A455E	S945L	R1070W	3272-26A→G
P67L	E193K	F508del*	S977F	F1074L	3849+10kbC→T
R74W	L206W	D579G	F1052V	D1152H	
D110E	R347H	711+3A→G	K1060T	D1270N	
D110H	R352Q	E831X	A1067T	2789+5G→A	

* A patient must have two copies of the F508del mutation or at least one copy of a responsive mutation presented in this table to be indicated

List of CFTR Gene Mutations that are Responsive to Trikafta

3141del9	E822K	G1069R	L967S	R117L	S912L
546insCTA	F191V	G1244E	L997F	R117P	S945L
A46D	F311del	G1249R	L1077P	R170H	S977F
A120T	F311L	G1349D	L1324P	R258G	S1159F
A234D	F508C	H139R	L1335P	R334L	S1159P
A349V	F508C;S125 1N †	H199Y	L1480P	R334Q	S1251N
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	I175V	P67L	R668C	V456A
D443Y	G85E	I336K	P205S	R751L	V456F
D443Y;G576A;R6	G126D	I502T	P574H	R792G	V562I

† Plan refers to Boston Medical Center Health Plan, Inc. and its affiliates and subsidiaries offering health coverage plans to enrolled members. The Plan operates in Massachusetts under the trade name Boston Medical Center HealthNet Plan and in other states under the trade name Well Sense Health Plan.

68C †					
D579G	G178E	I601F	Q98R	R933G	V754M
D614G	G178R	I618T	Q237E	R1066 H	V1153E
D836Y	G194R	I807M	Q237H	R1070 Q	V1240G
D924N	G194V	I980K	Q359R	R1070 W	V1293G
D979V	G314E	I1027T	Q1291R	R1162L	W361R
D1152H	G463V	I1139V	R31L	R1283 M	W1098C
D1270N	G480C	I1269N	R74Q	R1283S	W1282R
E56K	G551D	I1366N	R74W	S13F	Y109N
E60K	G551S	K1060T	R74W;D1270N †	S341P	Y161D
E92K	G576A	L15P	R74W;V201M †	S364P	Y161S
E116K	G576A;R668 C †	L165S	R74W;V201M;D12 70N †	S492F	Y563N
E193K	G622D	L206W	R75Q	S549N	Y1014C
E403D	G628R	L320V	R117C	S549R	Y1032C
E474K	G970D	L346P	R117G	S589N	
E588V	G1061R	L453S	R117H	S737F	

* F508del is a responsive CFTR mutation based on both clinical and *in vitro* data.

† 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.

Original Approval Date	Original Effective Date	Policy Owner	Approved by
12/1/2020	1/1/2021	Pharmacy Services	Pharmacy & Therapeutics (P&T) Committee

Policy Revisions History			
Review Date	Summary of Revisions	Revision Effective Date	Approved by
12/1/2020	P&T Committee; discontinued policy 9.036 and created a new policy for QHP	1/1/2021	P&T Committee

* Plan refers to Boston Medical Center Health Plan, Inc. and its affiliates and subsidiaries offering health coverage plans to enrolled members. The Plan operates in Massachusetts under the trade name Boston Medical Center HealthNet Plan and in other states under the trade name Well Sense Health Plan.

Policy Revisions History

7/1/2021	Updated age restriction for Trikafta to 6 years of age	7/16/2021	P&T Committee
8/12/2021	Annual P&T Review: Added in vitro data to criteria and appendix for Trikafta. Changed approval duration to 6 months initial, 12 months reauth. Updated approved age for Kalydeco from 6 to 4 months.	1/1/2022	P&T Committee

Next Review Date

8/2022

Other Applicable Policies

Reference to Applicable Laws and Regulations, If Any

Disclaimer Information

Medical Policies are the Plan's guidelines for determining the medical necessity of certain services or supplies for purposes of determining coverage. These Policies may also describe when a service or supply is considered experimental or investigational, or cosmetic. In making coverage decisions, the Plan uses these guidelines and other Plan Policies, as well as the Member's benefit document, and when appropriate, coordinates with the Member's health care Providers to consider the individual Member's health care needs.

Plan Policies are developed in accordance with applicable state and federal laws and regulations, and accrediting organization standards (including NCQA). Medical Policies are also developed, as appropriate, with consideration of the medical necessity definitions in various Plan products, review of current literature, consultation with practicing Providers in the Plan's service area who are medical experts in the particular field, and adherence to FDA and other government agency policies. Applicable state or federal mandates, as well as the Member's benefit document, take precedence over these guidelines. Policies are reviewed and updated on an annual basis, or more frequently as needed. Treating providers are solely responsible for the medical advice and treatment of Members.

The use of this Policy is neither a guarantee of payment nor a final prediction of how a specific claim(s) will be adjudicated. Reimbursement is based on many factors, including member eligibility and benefits on the date of service; medical necessity; utilization management guidelines (when applicable); coordination of benefits; adherence with applicable Plan policies and procedures; clinical coding criteria; claim editing logic; and the applicable Plan – Provider agreement.

^{*} Plan refers to Boston Medical Center Health Plan, Inc. and its affiliates and subsidiaries offering health coverage plans to enrolled members. The Plan operates in Massachusetts under the trade name Boston Medical Center HealthNet Plan and in other states under the trade name Well Sense Health Plan.