

Drug Policy

Policy:	Alyftrek (Vanzacaftor/Tezacaftor/Deutivacaftor) Tablets	Annual Review Date: 03/20/2025 Last Revised Date: 03/20/2025
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OVERVIEW

Alyftrek is a combination of deutivacaftor, a cystic fibrosis transmembrane regulator (CFTR) potentiator, tezacaftor, and vanzacaftor. It is indicated for the **treatment of cystic fibrosis (CF)** in patients ≥ 6 years of age who have at least one F508del mutation or another responsive mutation in the CFTR gene.¹

If the patient's genotype is unknown, an FDA-cleared CF mutation test should be used to confirm the presence of at least one indicated mutation.¹

Table 1 lists responsive CFTR mutations based on clinical response, and/or *in vitro* data in Fischer Rat Thyroid cells or human bronchial endothelial cells or based on extrapolation of efficacy.

Table 1 (continued). List of CFTR Gene Mutations that are Responsive to Alyftrek.¹

L1480P	Q372H	R74Q	Y161D	C491R
L441P	R1066L	R792G	D192G	G1247R
M1101R	R117C	S1159P	D579G	G178E
M952I	R117P	S364P	D993Y	G27R
N186K	R297Q	S912L	3141del9	E292K
P205S	R334Q	T1086I	A1067P	E60K
P750L	R516G	T604I	A309D	F1074L
Q237E	R560T	V232D	A559V	F311del
Q493R	R74W;D1270N	V603F	Y563N	1507_1515del9
R1066H	S1251N	V562I	D110H	G1061R
R1070Q	S1045Y	Y301C	G149R	I1366N
R117L	S341P	D565G	G27E	I502T
R258G	S737F	D979V	E474K	G551A
R347L	T1299I	3199del6	E92K	G628R
R553Q	V1240G	A107G	F1107L	H1085R
R709Q	V456A	A46D	A613T	F508C
R74W;V201M;D	I270N	Y1014C	F575Y	H620Q
R751L	Y109N	A72D	H1054D	M1101K
R75Q	S549R	W1098C	G1123R	I1139V
S1118F	Y913C	D1445N	G1244E	I336K
S1159F	S945L	W1282R	I331N	M265R
S13F	D513G	G1349D	G85E	L206W
S549N	V754M	D1152H	I175V	N1303K
S589N	D924N	G194V	G463V	I601F

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<i>T1053I</i>	<i>2183A→G</i>	<i>E193K</i>	<i>G576A</i>	<i>K162E</i>
<i>T351I</i>	<i>A1006E</i>	<i>E588V</i>	<i>G970D</i>	<i>L1324P</i>
<i>V201M</i>	<i>A234D</i>	<i>F1052V</i>	<i>H139R</i>	<i>L165S</i>
<i>V520F</i>	<i>A559T</i>	<i>F200I</i>	<i>H939R;H949L</i>	<i>L619S</i>
<i>Y161S</i>	<i>D110E</i>	<i>G1047R</i>		

CFTR – Cystic Fibrosis Transmembrane Conductance Regulator.

POLICY STATEMENT

This policy involves the use of Alyftrek. Prior authorization is recommended for pharmacy benefit coverage of Alyftrek. Approval is recommended for those who meet the conditions of coverage in the **Criteria and Initial/Extended Approval** for the diagnosis provided. **Conditions Not Recommended for Approval** are listed following the recommended authorization criteria. Requests for uses not listed in this policy will be reviewed for evidence of efficacy and for medical necessity on a case-by-case basis.

Because of the specialized skills required for evaluation and diagnosis of patients treated with Alyftrek as well as the monitoring required for adverse events and long-term efficacy, initial approval requires Alyftrek be prescribed by or in consultation with a physician who specializes in the condition being treated. All approvals for initial therapy are provided for the initial approval duration noted below; if reauthorization is allowed, a response to therapy is required for continuation of therapy unless otherwise noted below.

RECOMMENDED AUTHORIZATION CRITERIA

Coverage of Alyftrek is recommended in those who meet the following criteria:

FDA-Approved Indication

- Cystic Fibrosis (CF); Initial Use.** Approve for 6 months (can be extended to 12 months based on patient's response) if the patient meets ALL of the following (A, B, C, D, and E):
 - Patient is ≥ 6 years of age; AND
 - The medication is prescribed by or in consultation with a pulmonologist or a physician who specializes in the treatment of cystic fibrosis.
 - Patient has at least ONE of the following variants in the cystic fibrosis conductance regulator gene that is considered to be a pathogenic or likely pathogenic variant: F508del, A455E, G551D, L1077P, R352Q, S549N, V754M, D1152H, G85E, L206W, R75Q, S549R, W1098C, H1054D, M1101K, S1159F, S945L, W1282R, G1244E, I336K, R1066H, S1251N, V562I, Y563N, 1507_1515del9, E116Q, G424S, I556V, P140S, R334L, T1053I, 2183A→G, E193K, G463V, I601F, P205S, R334Q, T1086I, 3141del9, E292K, G480C, I618T, P499A, R347H, T1246I, 3195del6, E403D, G480S, I807M, P5L, R347L, T1299I, 3199del6, E474K, G551A, I980K, P574H, R347P, T338I, 546insCTA, E56K, G551S, K1060T, P67L, R352W, T351I, A1006E, E588V, G576A, K162E, P750L, R516G, T604I, A1067P, E60K, G576A;R668C, K464E, P99L, R516S, V1153E, A1067T, E822K, G622D, L1011S, Q1100P, R553Q, V1240G, A107G, E92K, G628R, L102R, Q1291R, R555G, V1293G, A120T, F1016S, G91R, L1065P, Q1313K, R560S, V201M, A234D, F1052V, G970D, L1324P, Q237E, R560T, V232D, A309D,

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F1074L, G970S, L1335P, Q237H, R668C, V392G, A349V, F1099L, H1085P, L137P, Q359R, R709Q, V456A, A46D, F1107L, H1085R, L1480P, Q372H, R74Q, V456F, A554E, F191V, H1375P, L15P, Q452P, R74W, V520F, A559T, F200I, H139R, L165S, Q493R, R74W;D1270N, V603F, A559V, F311del, H199R, L320V, Q552P, R74W;V201M, W361R, A561E, F311L, H199Y, L333F, Q98R, R74W;V201M;D, 1270N, Y1014C, A613T, F508C, H609R, L333H, R1048G, R75L, Y1032C, A62P, F508C;S1251N, H620P, L346P, R1066C, R751L, Y109N, A72D, F575Y, H620Q, L441P, R1066L, R792G, Y161D, C491R, F587I, H939R, L453S, R1066M, R933G, Y161S, D110E, G1047R, H939R;H949L, L619S, R1070Q, S1045Y, Y301C, D110H, G1061R, I1027T, L967S, R1070W, S108F, Y569C, D1270N, G1069R, I105N, L997F, R1162L, S1118F, Y913C, D1445N, G1123R, I1139V, M1101R, R117C, S1159P, D192G, G1247R, I1234Vdel6aa, M1137V, R117C;G576A;R668C, S1235R, D443Y, G1249R, I125T, M150K, R117G, S1255P, D443Y;G576A;R668C, G126D, I1269N, M152V, R117H, S13F, D513G, G1349D, I331N, M265R, R117L, S341P, D565G, G149R, I1366N, M952I, R117P, S364P, D579G, G178E, I1398S, M952T, R1283M, S492F, D614G, G178R, I148N, N1088D, R1283S, S549I, D836Y, G194R, I148T, N1303I, R170H, S589N, D924N, G194V, I175V, N1303K, R258G, S737F, D979V, G27E, I502T, N186K, R297Q, S912L, D993Y, G27R, I506L, N187K, R31C, S977F, E116K, G314E, I506T, N418S, R31L, T1036N, 1341G→A, 2789+2insA, 3041-15T→G, 3849+10kbC→T, 3850-3T→G, 5T;TG13, 711+3A→G, 1898+3A→G, 2789+5G→A, 3272-26A→G, 3849+4A→G, 4005+2T→C, 621+3A→G, E831X 2752-26A→G, 296+28A→G, 3600G→A, 3849+40A→G, 5T;TG12; AND

D) Patient meets at least ONE of the following (i, ii, or iii):

- i.** Positive cystic fibrosis newborn screening test; OR
- ii.** Family history of cystic fibrosis; OR
- iii.** Clinical presentation consistent with signs and symptoms of cystic fibrosis; AND

Note: Examples of clinical presentation of cystic fibrosis include but are not limited to meconium ileus, sinopulmonary symptoms (e.g., persistent cough, wheezing, pulmonary function tests consistent with obstructive airway disease, excess sputum production), bronchiectasis, sinusitis, failure to thrive, pancreatic insufficiency.

E) Patient has evidence of abnormal cystic fibrosis transmembrane conductance regulator function as demonstrated by at least ONE of the following (i, ii, or iii):

- i.** Elevated sweat chloride test; OR
- ii.** Two cystic fibrosis-causing cystic fibrosis transmembrane conductance regulator mutations; OR
- iii.** Abnormal nasal potential difference.

Cystic Fibrosis (CF); Continuation of Therapy

Criteria. Patient must meet the following criteria (A, B, and C):

- A. The patient continues to meet all criteria in (1) above for new starts; AND
- B. The patient has been using Alyftrek for at least 6 months; AND
- C. The patient has experienced an adequate response to therapy (e.g. improvement in FEV1 and/or other lung function tests, improvement in sweat chloride, decrease in pulmonary exacerbations or infections, increase in weight, decrease in hospitalizations, etc.) compared to baseline.

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Initial Approval/ Extended Approval.

A) *Initial Approval:* 6 months

B) *Extended Approval:* 1 year

CONDITIONS NOT RECOMMENDED FOR APPROVAL

Alyftrek has not been shown to be effective, or there are limited or preliminary data or potential safety concerns that are not supportive of general approval for the following conditions. (Note: This is not an exhaustive list of Conditions Not Recommended for Approval).

Coverage of Alyftrek is not recommended in the following situations:

- 1. Cystic Fibrosis, Patient with Unknown Cystic Fibrosis Transmembrane Conductance Regulator Gene Mutation.**
An FDA-cleared cystic fibrosis mutation test should be used to detect the presence of at least one indicated mutation prior to use of Alyftrek.¹
- 2. Combination Therapy with other Cystic Fibrosis Transmembrane Conductance Regulator Modulator(s).**
Alyftrek contains tezacaftor, which is a component of Symdeko® (tezacaftor/ivacaftor tablets; ivacaftor tablets) and Trikafta® (elexacaftor/tezacaftor/ivacaftor; ivacaftor tablets and granules). Note: Examples of other cystic fibrosis transmembrane conductance regulator modulators are: Kalydeco® (ivacaftor tablets and oral granules), Orkambi® (lumacaftor/ivacaftor tablets and oral granules), Symdeko® (tezacaftor/ivacaftor; ivacaftor tablets), Trikafta® (elexacaftor/tezacaftor/ivacaftor; ivacaftor tablets and oral granules).
- 3. Infertility.** Alyftrek is indicated for the treatment of cystic fibrosis in patients ≥ 6 years of age who have at least one F508del mutation or another responsive mutation in the cystic fibrosis transmembrane conductance regulator gene.
Note: A patient with a diagnosis of cystic fibrosis should be reviewed using criteria for the FDA-approved indication, above.
- 4.** Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

Documentation Requirements:

The Company reserves the right to request additional documentation as part of its coverage determination process. The Company may deny reimbursement when it has determined that the drug provided or services performed were not medically necessary, investigational, or experimental, not within the scope of benefits afforded to the member and/or a pattern of billing or other practice has been found to be either inappropriate or excessive. Additional documentation supporting medical necessity for the services provided must be made available upon request to the Company. Documentation requested may include patient records, test results and/or credentials of the provider ordering or

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performing a service. The Company also reserves the right to modify, revise, change, apply and interpret this policy at its sole discretion, and the exercise of this discretion shall be final and binding.

REFERENCES

1. Alyftrek™ tablets [prescribing information]. Cambridge, MA: Vertex; December 2024.
2. Southern KW, Castellani C, Lammertyn E, et al. Standards of care for CFTR variant-specific therapy (including modulators) for people with cystic fibrosis. *J Cyst Fibros*. 2023;17-30.
3. Farrell PM, White TB, Ren CL, et al. Diagnosis of cystic fibrosis: consensus guidelines from the cystic fibrosis foundation. *J Pediatr*. 2017;181S:S4-S15.
4. Farrell PM, White TB, Howenstine MS, et al. Diagnosis of cystic fibrosis in screened populations. *J Pediatr*. 2017;181S:S33-S44.
5. Southern KW, Addy C, Bell SC, et al. Standards for the care of people with cystic fibrosis; establishing and maintaining health. *J Cyst Fibros*. 2024;21-28.