

26 April 2021 EMA/OD/0000042076 EMADOC-1700519818-661187 Committee for Orphan Medicinal Products

Orphan Maintenance Assessment Report

of an orphan medicinal product submitted for type II variation application

Kalydeco (ivacaftor) Treatment of cystic fibrosis EU/3/08/556 Sponsor: Vertex Pharmaceuticals (Ireland) Limited

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1. Product and administrative information

Product			
Designated active substance	N-(2,4-Di-tert-butyl-5-hydroxyphenyl)-1,4-dihydro-4-		
	oxoquinoline-3-carboxamide		
Other name	NA		
International Non-Proprietary Name	Ivacaftor		
Tradename	Kalydeco		
Orphan condition	Treatment of cystic fibrosis		
Sponsor's details:	ertex Pharmaceuticals (Ireland) Limited		
	28-32 Pembroke Street Upper		
	Dublin 2 D02 EK84		
	Co. Dublin		
	Ireland		
Orphan medicinal product designation p	rocedural history		
Sponsor/applicant	Voisin Consulting S.A.R.L.		
COMP opinion	14 May 2008		
EC decision	8 July 2008		
EC registration number	EU/3/08/556		
Post-designation procedural history			
	Transfor from Voicin Consulting C A D L to Vortov		
Transfer of sponsorship	Transfer from Voisin Consulting S.A.R.L to Vertex		
	Pharmaceuticals (U.K.) – EC decision of 30 August 2011		
COMP opinion on review of orphan	13 June 2012		
designation at the time of marketing			
authorisation			
Transfer of sponsorship	Transfer from Vertex Pharmaceuticals (U.K.) to		
	Vertex Pharmaceuticals (Europe) Limited – EC		
	decision of 10 August 2015		
COMP opinion on review of orphan			
designation at the time of type II variation	13 September 2018		
Transfer of sponsorship	Transfer from Vertex Pharmaceuticals (Europe)		
Transier of sponsorship	Limited to Vertex Pharmaceuticals (Ireland) Limited –		
	EC decision of 21 November 2018		
Type II variation procedural history			
Rapporteur / Co-rapporteur	Maria Concepcion Prieto Yerro / Melinda Sobor		
Applicant	Vertex Pharmaceuticals (Ireland) Limited		
Application submission	26 August 2020		
Procedure start	12 September 2020		
Procedure start	EMA/H/C/002494/II/0089		
Invented name	Kalydeco		
	Naiyuelu		

Proposed therapeutic indication	Kalydeco tablets are indicated in a combination regimen with ivacaftor 75 mg/tezacaftor 50 mg/elexacaftor 100 mg tablets for the treatment of adults and adolescents aged 12 years and older with cystic fibrosis (CF) who have at least one F508del mutation in the CFTR gene. Further information on Kalydeco can be found in the European public assessment report (EPAR) on the Agency's website ema.europa.eu/en/medicines/human/EPAR/kalydeco		
CHMP opinion	25 March 2021		
COMP review of orphan medicinal product designation procedural history			
COMP rapporteur(s)	Gloria Maria Palomo Carrasco / Armando Magrelli		
Sponsor's report submission	24 September 2020		
COMP discussion	3-5 November 2020 and 16-18 March 2021		
COMP opinion	26 March 2021		

2. Grounds for the COMP opinion

2.1. Orphan medicinal product designation

The COMP opinion that was the basis for the initial orphan medicinal product in 2008 designation was based on the following grounds:

- cystic fibrosis (hereinafter referred to as "the condition") was estimated to be affecting approximately 1.2 in 10,000 persons in the Community, at the time the application was made;
- the condition is chronically debilitating and life threatening due to respiratory failure and reduced overall survival;
- although satisfactory methods of treatment of the condition have been authorised in the Community, justifications have been provided that N-(2,4-Di-tert-butyl-5-hydroxyphenyl)-1,4dihydro-4-oxoquinoline-3-carboxamide may be of significant benefit to those affected by the condition.

2.2. Review of orphan medicinal product designation at the time of marketing authorisation

- the proposed therapeutic indication "treatment of cystic fibrosis in patients age 6 years and older who have a G551D mutation in the CFTR gene" falls entirely within the scope of the orphan indication of the designated Orphan Medicinal Product;
- the prevalence of cystic fibrosis (hereinafter referred to as "the condition") was estimated to remain below 5 in 10,000 at the time of the review of the designation criteria. The prevalence is at present estimated at 0.7 in 10,000 persons in the EU, based on evidence coming from relevant literature and European registries;
- the seriousness of the condition was estimated not to have changed at the time of the review of the designation criteria. The condition is life-threatening and chronically debilitating, in particular due to the recurrent and resistant respiratory infections with development of bronchiectasis. Death

can occur from terminal respiratory failure or from haemoptysis due to erosion of large pulmonary vessels;

 although satisfactory methods of treatment of the condition have been authorised in the European Union, the assumption that ivacaftor may be of potential significant benefit to those affected by the orphan condition still holds. The significant benefit is based on the innovative mechanism of action of ivacaftor which, unlike the current products authorized in the EU, directly targets the underlying pathomechanism of the disease. Such mechanism of action has been shown to translate into clinical efficacy, as shown by a significant improvement in lung function, and a decrease in the number of pulmonary exacerbations. This constitutes a therapeutic advantage for the cystic fibrosis sub-population affected by the G551D gating mutation, when ivacaftor is either used alone or in combination with currently authorized products for the treatment of cystic fibrosis, e.g. depending on the stage of the disease and the presence of pulmonary infections.

2.3. Review of orphan medicinal product designation at the time of type II variation (EMEA/H/C/002494/II/0063/G)

The COMP opinion on the initial review of the orphan medicinal product designation in 2018 was based on the following grounds:

- the proposed therapeutic indication falls entirely within the scope of the orphan indication of the designated Orphan Medicinal Product;
- the prevalence of cystic fibrosis (hereinafter referred to as "the condition") was estimated to remain below 5 in 10,000 and was concluded in to be less than 1 in 10,000 persons in the European Union, at the time of the review of the designation criteria;
- the condition is life-threatening and chronically debilitating due to recurrent and resistant respiratory infections with development of bronchiectasis and terminal respiratory failure;
- although satisfactory methods of treatment of the condition have been authorised in the European Union, the assumption that Kalydeco will be of significant benefit to those affected by the orphan condition is confirmed. This is based on clinical data showing the better tolerability of Symkevi in combination with Kalydeco in patients with homozygous F508del mutation who had to discontinue treatment with Orkambi, with comparable efficacy. The significant benefit of Symkevi in combination with Kalydeco in patients heterozygous for F508del and one of the residual function mutations included in the authorized therapeutic indication, for whom no specific CFTR modulator treatment is authorized, was considered justified based on clinical data showing improved efficacy versus placebo.

2.4. Review of orphan medicinal product designation at the time of type II variation (EMEA/H/C/002494/II/0085)

- the proposed therapeutic indication falls entirely within the scope of the orphan condition of the designated Orphan Medicinal Product;
- the prevalence of cystic fibrosis (hereinafter referred to as "the condition") was estimated to remain below 5 in 10,000 and was concluded in to be less than 1 in 10,000 persons in the European Union, at the time of the review of the designation criteria;
- the condition is life-threatening and chronically debilitating due to recurrent and resistant respiratory infections with development of bronchiectasis and terminal respiratory failure;

 although satisfactory methods for the treatment of the condition have been authorised in the European Union, the assumption that Kalydeco may be of significant benefit to those affected by the orphan condition is confirmed. In patients homozygous for the F508del mutation of cystic fibrosis transmembrane conductance regulator (*CFTR*), Kalydeco in combination regimen with Kaftrio showed better efficacy in the primary endpoint of lung function and in relevant secondary endpoints as compared to Symkevi, currently authorized for the condition. The combination regimen also showed clinical efficacy in patients heterozygous for F508del and minimal function mutations in the CFTR, for whom there is no specific CFTR modulator treatment authorized. The Committee considers that this constitutes a clinically relevant advantage for the patients affected by the condition.

3. Review of criteria for orphan designation at the time of type II variation

Article 3(1)(a) of Regulation (EC) No 141/2000

Intention to diagnose, prevent or treat a life-threatening or chronically debilitating condition affecting not more than five in 10 thousand people in the Community when the application is made

Condition

The present extension of indication "*Kalydeco tablets are indicated in a combination regimen with ivacaftor 75 mg/tezacaftor 50 mg/elexacaftor 100 mg tablets for the treatment of adults and adolescents aged 12 years and older with cystic fibrosis (CF) who have at least one F508del mutation in the CFTR gene"* falls within the designated orphan condition 'treatment of cystic fibrosis'.

Intention to diagnose, prevent or treat

The medical plausibility has been confirmed for Kalydeco by the positive benefit/risk assessment of the CHMP. Please see EPAR.

Chronically debilitating and/or life-threatening nature

There have been no changes in the seriousness of the condition since the time of orphan designation. The condition remains life-threatening and chronically debilitating due to recurrent and resistant respiratory infections with development of bronchiectasis and terminal respiratory failure.

Number of people affected or at risk

There have been no significant changes in the prevalence of the condition since the time of orphan designation. The sponsor calculated the current prevalence based mainly on registry data, concluding with a proposed estimate of 0.78 in 10,000 in the EU. This is in line with previous designations although more recently some studies suggest a slight increase in prevalence (also as result of better available treatments), which would be around 0.9 in 10,000 (not significantly different from the one proposed by the sponsor). Recently the COMP has often adopted less than 1 in 10,000 so to allow for slight fluctuations of prevalence based on different sources. This figure is also used for the present application.

Article 3(1)(b) of Regulation (EC) No 141/2000

Existence of no satisfactory methods of diagnosis prevention or treatment of the condition in question, or, if such methods exist, the medicinal product will be of significant benefit to those affected by the condition.

Existing methods

The sponsor correctly identifies the currently authorized treatments for the condition, which can be broadly classified in: (1) CFTR modulators (i.e. correctors and potentiators) which target the underlying cause of the disease, i.e. target CFTR dysfunction; and (2) therapies that manage the symptoms, complications, and comorbidities of the disease (e.g., antibiotics, mucolytics, pancreatic enzyme replacement therapy).

Centrally authorized products for the treatment of CF in the EU are presented in Table 1 below (from the sponsor's application).

Invented Name	Approval Date	Indication and Age Groups
(INN)		
Products Targeting CFTR		
Dysfunction		
Kalydeco	23 Jul 2012	Kalydeco is indicated for the treatment of patients
(ivacaftor)		with CF aged 12 months and older and weighing 7
		kg or more who have 1 of the following gating (class
		III) mutations in the CFTR gene: G551D, G1244E,
		G1349D, G178R, G551S, S1251N, S1255P, S549N
		or S549R (Gating patients) Kalydeco is indicated for
		the treatment of patients with CF aged 18 years and
		older who have an R117H mutation in the CFTR
		gene. (R117H patients)
Orkambi	19 Nov 2015	Orkambi is indicated for the treatment of CF in
(lumacaftor/		patients aged 2 years and older who are
ivacaftor)		homozygous for the F508del mutation in the CFTR
		gene (F/F patients).
Symkevi + Kalydeco	31 Oct 2018	Symkevi is indicated in a combination regimen with
(tezacaftor/ivacaftor)		Kalydeco 150 mg tablets for the treatment of
		patients with CF aged 12 years and older who are
		homozygous for the F508del mutation (F/F patients)
		or who are heterozygous for the F508del mutation
		and have 1 of the following mutations in the CFTR
		gene: P67L, R117C, L206W, R352Q, A455E, D579G,
		711+3A→G, S945L, S977F, R1070W, D1152H,
		2789+5G \rightarrow A, 3272-26A \rightarrow G, and 3849+10kbC \rightarrow T
		(F/RF patients).

Table 1. Centrally Authorized Medicinal Products for the Treatment of CF
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Kaftrio + Kalydeco (ELX/TEZ/IVA)	21 Aug 2020	Kaftrio is indicated in a combination regimen with ivacaftor 150 mg tablets for the treatment of cystic fibrosis (CF) in patients aged 12 years and older who are homozygous for the F508del mutation (F/F patients) in the cystic fibrosis transmembrane conductance regulator (CFTR) gene or heterozygous for F508del in the CFTR gene with a minimal function (MF) mutation (F/MF patients)
Products to Manage CF Symptoms		
Bronchitol (mannitol)	13 Apr 2012	Bronchitol is indicated for the treatment of CF in adults aged 18 years and above as an add-on therapy to best standard of care.
Cayston (aztreonam lysine)	21 Sep 2009	Cayston is indicated for the suppressive therapy of chronic pulmonary infections due to <i>P. aeruginosa</i> in patients with CF aged 6 years and older.
Colobreathe (colistimethate sodium)	13 Feb 2012	Colobreathe is indicated for the management of chronic pulmonary infections due to <i>P aeruginosa</i> in patients with CF aged 6 years and older.
Quinsair (levofloxacin)	26 Mar 2015	Quinsair is indicated for the management of chronic pulmonary infections due to <i>P aeruginosa</i> in adult patients with CF.
TOBI Podhaler (tobramycin)	20 Jul 2011	TOBI Podhaler indicated for the suppressive therapy of chronic pulmonary infection due to <i>P aeruginosa</i> in adults and children aged 6 years and older with CF.
Vantobra (tobramycin)	18 Feb 2019	Vantobra is indicated for the management of chronic pulmonary infection due to <i>P</i> aeruginosa in patients aged 6 years and older with CF.

Significant benefit

The significant benefit is discussed for each of the patient populations covered by the authorized therapeutic indication.

NOTE: the significant benefit for F508Del homozygous (F/F) and for patients heterozygous for F508del and a minimal function (MF) mutation (patients F/MF) at point 1 and 2 below was already confirmed by the COMP in the discussion of the initial MA of Kaftrio or the type II variation (0085) of Kalydeco.

This extension to other mutations (points 3 and 4 below) was also discussed by the COMP at that time and in principle the Committee had favourable views already at that time.

1. F508Del homozygous patient population (approximately 45% of the CF patient population)

Study 103 constitutes the main supportive evidence for the significant benefit in this patient group. This was a 4-week randomized, double-blind, active-controlled, parallel-group, multicenter study in subjects 12 years of age and older with a F508del mutation on both alleles. The study assessed the added benefit of Kaftrio plus Kalydeco in comparison with Symkevi (TEZ-/IVA). In both cases the products were administered once a day, in combination regiment with Kalydeco, administered in the evening.

Kaftrio plus Kalydeco resulted in a statistically significant improvement in the primary endpoint of absolute change in ppFEV1 at Week 4 compared to Symkevi, with a treatment difference of 10.0 percentage points (P<0.0001). In addition Kaftrio plus Kalydeco resulted in a statistically significant decrease in sweat chloride (SwCl) compared to Symkevi, with mean treatment difference of -45.1 mmol/L (P <0.0001 [95% CI: -50.1, -40.1]) for absolute change at Week 4, and in a significant increase in CFQ-R RD compared to Symkevi, with a LS mean treatment difference of 17.4 points (P<0.0001 [95% CI: 11.8, 23.0]) for absolute change at Week 4. Table 2 below shows the results (from the CHMP assessment report).

2. Patients heterozygous for F508del and a MF (minimal function) mutation (approximately 25% of the total CF population).

The significant benefit for this patient population is supported by study 102, which was a 24-week randomized, double blind, placebo controlled, parallel group, multicenter study in subjects 12 years of age and older, who had an F508del mutation on one allele and a MF mutation on the other allele resulting in either no CFTR protein, or a protein that does not respond to IVA (Kalydeco) and TEZ/IVA (Symkevi) in vitro.

The difference in the absolute change of ppFEV1 through week 24 between Kaftrio in combination with Kalydeco and placebo was 14.3% (CI 95%: 12.7 - 15.8; p<0.0001) in favour of the active treatment. The difference was already observable at week 4 (13.7%; CI 95% 12.0 - 15.3; p<0.0001). For pulmonary exacerbations, the rate ratio was 0.37 (95% CI: 0.25 - 0.55, p<0.0001) in favor of Kaftrio plus Kalydeco, with an overall reduction of 63%. The hazard ratio for time-to-first pulmonary exacerbations was also in favour of Kaftrio plus Kalydeco (HR: 0.34; 95% CI 0.22, 0.52; nominal p<0.0001). A higher CFQ-R RD score was observed in the treated arm compared to the placebo arm (20.2 points; 95% CI 17.5,23.0; p<0.0001). In addition, an absolute change of 1.04 (95% CI: 0.85, 1.23; p<0.0001) compared to placebo was seen in body mass index (BMI)

The significant benefit in subjects with MF/F508Del mutation, for which no specific CFTR modulator is authorized, was therefore supported, and confirmed by the COMP in July 2020.

Points 3 and 4 below present a combined discussion on the remaining mutations that have been studied by the sponsor, which are now all included in the therapeutic indication ("*treatment of cystic fibrosis (CF) in patients aged 12 years and older who have at least one F508del mutation in the CFTR gene*")

3. Patients who are heterozygous for F508Del and a residual function mutation (F/RF) (approximatively 5% of the total CF population)

Authorized treatments: Symkevi is indicated in a combination regimen with Kalydeco 150 mg tablets for the treatment of patients with CF aged 12 years and older who are heterozygous for the F508del mutation and have 1of the following mutations in the CFTR gene: P67L, R117C, L206W, R352Q, A455E, D579G, 711+3A \rightarrow G, S945L, S977F, R1070W, D1152H, 2789+5G \rightarrow A, 3272-26A \rightarrow G, and 3849+10kbC \rightarrow T (Section 4.1).

4) Patients who are heterozygous for F508Del and a residual function mutation (F/RF) (approximatively 5% of the total CF population)

Authorized treatments: Kalydeco is indicated for the treatment of CF patients who have 1 of the following gating mutations, irrespective of the mutation on the other allele (i.e. not specifically F508del): G551D, G1244E, G1349D, G178R, G551S, R117H, S1251N, S1255P, S549N or S549R (Section 4.1).

Real world data from the US CFFPR for F/RF and F/G patients treated with VX-445/TEZ/IVA was provided by the sponsor, from post-marketing use in the US. From 21 October 2019 through 31 December 2019, a total of 521 F/G or F/RF patients had a record of VX-445/TEZ/IVA treatment initiation in CFFPR. Of these patients, 297 patients (57%) had lung function measurements available both at baseline and follow-up and were included in these analyses.

Gating mutations eligible for inclusion in the analyses were G1069R, G1244E, G1349D, G178R, G551D, G551S, R1070Q, R117H, S1251N, S1255P, S549N, or S549R. RF mutations eligible for inclusion in the analyses were 2789+5G->A, 3272-26A->G, 3849+10kbC->T, 711+3A->G, A1067T, A455E, D110E, D110H, D1152H, D1270N, D579G, E193K, E56K, E831X, F1052V, F1074L, K1060T, L206W, P67L, R1070W, R117C, R347H, R352Q, R74W, S945L, or S977F.

The vast majority of the F/G and F/RF patients included in this analysis were receiving CFTR modulator therapy prior to initiating VX-445/TEZ/IVA treatment (97.8% of F/G patients and 89.4% F/RF patients were exposed to at least one other CFTR modulator in 2019). The mean baseline ppFEV1 values were 69.0 for the F/G patients and 66.6 for the F/RF patients. An improvement in ppFEV1 from baseline was observed for both genotype groups: mean of 4.3 percentage points (95% CI: 2.7, 5.9) for the F/G patients, and 2.7 percentage points (95% CI: 1.7, 3.7) for the F/RF patients (Table 2).

	Patients	Pre- VX-445/TEZ/IVA ppFEV1	Post- VX-445/TEZ/IVA ppFEV1 ^a	Change in ppFEV1	95% CI for Change in
Subgroup	n	Mean (SD)	Mean (SD)	Mean (SD)	ppFEV1b
F/G	136	69.0 (26.1)	73.3 (25.2)	+4.3 (9.6)	(2.7, 5.9)
F/RF	161	66.6 (25.1)	69.3 (24.8)	+2.7 (6.6)	(1.7, 3.7)

Table 2. CFFPR Data for F/G and F/RF Patients Who Initiated Treatment With VX-445/TEZ/IVABetween 21 October 2019 and 31 December 2019

Source: data on file from CFFPR

^a Post-treatment ppFEV₁ data examined through 15 March 2020

^b 95% CI was calculated by Vertex based on one sample t test.

In addition to these data, which were already presented in the initial MA, the sponsor added the results from Study 104, an 8-week, randomized, double-blind, active-controlled, parallel-group, multicenter study in patients with an F/Gating or F/RF genotype. Study 104 was designed to compare Kaftrio in combination with Kalydeco to the currently approved CFTR modulator therapy (IVA for F/Gating subjects and TEZ/IVA for F/RF subjects).

In study 104 treatment with Kaftrio plus Kalydeco resulted in statistically significant improvements of the primary endpoint of FEV1 as well as improvements in clinically relevant secondary endpoints, such as sweat chloride and functional score of the respiratory domain, CFQ-R RD.

In patients with F/residual function (RF) mutations, Kaftrio in combination with Kalydeco resulted in improvement versus standard-of-care Symkevi in the primary endpoint ppFEV1 (LS mean treatment difference: 2.0 percentage points; nominal P= 0.0093]), sweat chloride (LS mean treatment difference -24.8 mmol/L; nominal P <0.0001]), and CFQ-R RD (8.5 points; nominal P value = 0.0003). The secondary endpoints supported the clinical relevance of the relatively small change in ppFEV1 that was achieved.

In patients with F/Gating mutations, Kaftrio in combination with Kalydeco resulted in improvements versus Kalydeco in percentage predicted FEV1 (ppFEV1: LS mean treatment difference: 5.8 percentage points; nominal P <0.0001], sweat chloride (LS mean treatment difference: -20.0 mmol/L; nominal P <0.0001) and CFQ-R RD (LS mean treatment difference: 8.9 points; nominal P = 0.0008]).

The study included a 4-week Run-in Period where subjects received the approved CFTR modulator therapy; therefore, the improvement in the Kaftrio group was on top of the improvements that had been achieved with treatment with Kalydeco alone, or Symkevi.

In conclusion, the significant benefit in heterozygous F/RF and F/G mutations is supported by real life data from the study performed in the US, as well as by the results of study 104, showing clinically meaningful efficacy in patients who had been previously treated with Kalydeco alone, or Symkevi (depending on the mutations for which they were authorised).

4. COMP list of issues

Not applicable

5. COMP position adopted on 26 March 2021

The COMP concluded that:

- the proposed therapeutic indication falls entirely within the scope of the orphan condition of the designated Orphan Medicinal Product;
- the prevalence of cystic fibrosis (hereinafter referred to as "the condition") was estimated to remain below 5 in 10,000 and was concluded in to be less than 1 in 10,000 persons in the European Union, at the time of the review of the designation criteria;
- the condition is life-threatening and chronically debilitating due to recurrent and resistant respiratory infections with development of bronchiectasis and terminal respiratory failure;
- although satisfactory methods for the treatment of the condition have been authorised in the European Union, the assumption that Kalydeco will be of significant benefit to those affected by the orphan condition is confirmed. In patients with a residual function mutation of the cystic fibrosis transmembrane conductance regulator gene, Kalydeco in combination with Kaftrio showed better efficacy in the primary endpoint of lung function and in relevant secondary endpoints as compared to Symkevi, currently authorised for the condition. In patients with gating mutations, Kalydeco in combination with Kaftrio also showed better efficacy in lung function versus Kalydeco alone. In addition, Kalydeco in combination with Kaftrio can now be used in all patients who have at least one F508del allele. The Committee considers that this constitutes a clinically relevant advantage for the patients affected by the condition.

The COMP, having considered the information submitted by the sponsor and on the basis of Article 5(12)(b) of Regulation (EC) No 141/2000, is of the opinion that:

- the criteria for designation as set out in the first paragraph of Article 3(1)(a) are satisfied;
- the criteria for designation as set out in Article 3(1)(b) are satisfied.

The Committee for Orphan Medicinal Products has recommended that Kalydeco, N-(2,4-Di-tert-butyl-5-hydroxyphenyl)-1,4-dihydro-4-oxoquinoline-3-carboxamide, ivacaftor, for treatment of cystic fibrosis (EU/3/08/556) is not removed from the Community Register of Orphan Medicinal Products.