



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

Kaftrio

Procedural steps taken and scientific information after the authorisation

Application number	Scope	Opinion/ Notification ¹ issued on	Commission Decision Issued ² / amended on	Product Information affected ³	Summary
WS/2551	This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008. Extension of the indication for Kaftrio (ivacaftor/tezacaftor/elexacaftor) and Kalydeco	27/02/2025	04/04/2025	SmPC and PL	Please refer to Scientific Discussion "EMA/H/C/WS2551 Kaftrio, Kalydeco"

¹ Notifications are issued for type I variations and Article 61(3) notifications (unless part of a group including a type II variation or extension application or a worksharing application). Opinions are issued for all other procedures.

² A Commission decision (CD) is issued for procedures that affect the terms of the marketing authorisation (e.g. summary of product characteristics, annex II, labelling, package leaflet). The CD is issued within two months of the opinion for variations falling under the scope of Article 23.1a(a) of Regulation (EU) No. 712/2012, or within one year for other procedures.

³ SmPC (Summary of Product Characteristics), Annex II, Labelling, PL (Package Leaflet).



	(ivacaftor) based on study VX21-445-124, study VX21-445-125, study VX22-CFD-016 and results from a French compassionate use programme. The indication is extended to all patients with non-F 508 del mutations except homozygous patients who carry two class I mutations. In addition, the worksharing applicant took this opportunity to introduce editorial changes to the PI of Kalydeco and Kaftrio. As a consequence, sections 4.1, 4.2, 4.4, 4.8, 5.1 and 5.2 of the Kaftrio SmPC are updated and sections 4.1 4.2, 4.4, 4.8, 5.1 and 5.2 of the Kalydeco SmPC are updated. The Package Leaflet for both products is updated in accordance. The worksharing procedure leads to amendments to the Summary of Product Characteristics and Package Leaflet and to the Risk Management Plan (RMP). C.I.6.a - Change(s) to therapeutic indication(s) - Addition of a new therapeutic indication or modification of an approved one				
II/0052/G	This was an application for a group of variations. Grouped application comprising two type II variations as follows: - Type II (C.I.3.b) - Update of sections 4.4 and 4.8 of the SmPC in order to update information on existing statements related to rash events in adults and add information regarding the paediatric population. - Update of section 4.8 to add hypersensitivity to the list of adverse drug reactions with frequency	13/02/2025	04/04/2025	SmPC and PL	

	“not known”. - Type II (C.I.z) – Update of section 4.6 based on post-marketing breast-feeding case reports. Clarification is provided that the medicinal product has been detected in breastfed newborns/infants of treated women. The package leaflet is updated accordingly. C.I.z - Changes (Safety/Efficacy) of Human and Veterinary Medicinal Products - Other variation C.I.3.b - Change(s) in the SPC, Labelling or PL intended to implement the outcome of a procedure concerning PSUR or PASS or the outcome of the assessment done under A 45/46 - Change(s) with new additional data submitted by the MAH				
IB/0060	B.II.b.1.e - Replacement or addition of a manufacturing site for the FP - Site where any manufacturing operation(s) take place, except batch-release, batch control, primary and secondary packaging, for non-sterile medicinal products	14/01/2025	n/a		
PSUSA/10868 /202404	Periodic Safety Update EU Single assessment - ivacaftor / tezacaftor / elexacaftor	28/11/2024	n/a		PRAC Recommendation - maintenance
IB/0057	B.II.b.5.f - Change to in-process tests or limits applied during the manufacture of the finished product - Addition or replacement of an in-process test as a result of a safety or quality issue	05/11/2024	n/a		
II/0056	Update of sections 4.8 and 5.1 of the SmPC in order to update safety and efficacy data based on final	31/10/2024	28/01/2025	SmPC	This application is based on final results from study VX19-445-107 (Study 107); this is a Phase 3, open-label study

	results from study VX19-445-107 (Study 107); this is a Phase 3, open-label study evaluating the long-term safety and efficacy of ELX/TEZ/IVA combination therapy in subjects with cystic fibrosis who are 6 years of age and older. The RMP version 9.2 has also been agreed. C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data				evaluating the long-term safety and efficacy of ELX/TEZ/IVA combination therapy in subjects with cystic fibrosis who are 6 years of age and older. A minor modification of sections 4.8 and 5.1 of the SmPC is agreed. This update consists of removing parts related to the interim data and replace with final study information. For more information, please refer to the Summary of Product Characteristics.
N/0058	Minor change in labelling or package leaflet not connected with the SPC (Art. 61.3 Notification)	17/09/2024	28/01/2025	Labelling and PL	
IA/0053	B.II.b.3.a - Change in the manufacturing process of the finished or intermediate product - Minor change in the manufacturing process	09/07/2024	n/a		
PSUSA/10868 /202310	Periodic Safety Update EU Single assessment - ivacaftor / tezacaftor / elexacaftor	16/05/2024	n/a		
IAIN/0051	A.1 - Administrative change - Change in the name and/or address of the MAH	14/05/2024	28/01/2025	SmPC, Labelling and PL	
IA/0048/G	This was an application for a group of variations. B.I.b.2.a - Change in test procedure for AS or starting material/reagent/intermediate - Minor changes to an approved test procedure A.7 - Administrative change - Deletion of manufacturing sites	26/02/2024	n/a		

	A.7 - Administrative change - Deletion of manufacturing sites A.4 - Administrative change - Change in the name and/or address of a manufacturer or an ASMF holder or supplier of the AS, starting material, reagent or intermediate used in the manufacture of the AS or manufacturer of a novel excipient				
PSUSA/10868 /202304	Periodic Safety Update EU Single assessment - ivacaftor / tezacaftor / elexacaftor	14/12/2023	16/02/2024	SmPC and PL	Please refer to Kaftrio PSUSA/00010868/202304 EPAR: Scientific conclusions and grounds recommending the variation to the terms of the marketing authorisation
IB/0045	C.I.3.z - Change(s) in the SPC, Labelling or PL intended to implement the outcome of a procedure concerning PSUR or PASS or the outcome of the assessment done under A 45/46 - Other variation	12/01/2024	28/01/2025	SmPC and PL	
IG/1696/G	This was an application for a group of variations. A.5.b - Administrative change - Change in the name and/or address of a manufacturer/importer of the finished product, including quality control sites (excluding manufacturer for batch release) A.5.b - Administrative change - Change in the name and/or address of a manufacturer/importer of the finished product, including quality control sites (excluding manufacturer for batch release) A.4 - Administrative change - Change in the name and/or address of a manufacturer or an ASMF holder or supplier of the AS, starting material, reagent or intermediate used in the manufacture of the AS or manufacturer of a novel excipient	05/01/2024	n/a		

IA/0044	B.II.b.4.a - Change in the batch size (including batch size ranges) of the finished product - Up to 10-fold compared to the originally approved batch size	21/12/2023	n/a		
II/0039	Update of sections 4.8 and 5.1 of the SmPC based on final results from study VX17-445-105 (study 105); Study 105 was this is a phase 3, open-label, extension study evaluating the long-term safety and efficacy of ELX/TEZ/IVA treatment in cystic fibrosis (CF) subjects 12 years of age and older, homozygous, or heterozygous for the F508del-CFTR mutation who participated in study VX17-445-102 (study 102) or study VX17-445-103 (study 103). Consequently, an update of frequency for blood creatine phosphokinase increased and aspartate aminotransferase increased is introduced in section 4.8 of the SmPC. The Package leaflet is updated accordingly. The RMP version 8.2 has also been agreed. C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data	30/11/2023	16/02/2024	SmPC	With this variation, final results of the study VX17-445-105 are submitted. An interim analysis at 96 weeks was previously assessed in 2022. Consequently, an update of sections 4.8 and 5.1 of the SmPC is endorsed. The Package leaflet is updated accordingly. Study 105 was a phase 3, open-label, extension study evaluating the long-term safety and efficacy of ELX/TEZ/IVA treatment in cystic fibrosis (CF) subjects 12 years of age and older, homozygous, or heterozygous for the F508del-CFTR mutation who participated in study VX17-445-102 (study 102) or study VX17-445-103 (study 103). In section 4.8 of the SmPC, the frequency for "blood creatine phosphokinase increased" and "aspartate aminotransferase increased" was modified from "common" to "very common". The Package leaflet is updated accordingly. The RMP version 8.2 is agreed. For more information, please refer to the Summary of Product Characteristics.
X/0033	Annex I_2.(c) Change or addition of a new strength/potency Annex I_2.(d) Change or addition of a new pharmaceutical form	14/09/2023	22/11/2023	SmPC, Labelling and PL	Please refer to Scientific Discussion "Kaftrio EMEA/H/C/005269/X/0033"

II/0042/G	This was an application for a group of variations. B.II.b.2.a - Change to importer, batch release arrangements and quality control testing of the FP - Replacement/addition of a site where batch control/testing takes place B.II.d.2.a - Change in test procedure for the finished product - Minor changes to an approved test procedure B.II.b.3.b - Change in the manufacturing process of the finished or intermediate product - Substantial changes to a manufacturing process that may have a significant impact on the quality, safety and efficacy of the medicinal product B.II.b.1.e - Replacement or addition of a manufacturing site for the FP - Site where any manufacturing operation(s) take place, except batch-release, batch control, primary and secondary packaging, for non-sterile medicinal products	12/10/2023	n/a		
II/0035	Update of sections 4.8 and 5.1 of the SmPC based on interim results from study VX19-445-107 (Study 107) listed as a category 3 study in the RMP; this is a Phase III, open-label study evaluating the long-term safety and efficacy of VX445/TEZ/IVA combination therapy in subjects with cystic fibrosis who 6 years of age and older. The RMP is updated to version 7.3. In addition, the MAH took the opportunity to implement editorial changes in the SmPC. C.I.4 - Change(s) in the SPC, Labelling or PL due to	31/08/2023	22/11/2023	SmPC	The MAH submitted with this variation the interim results of the completed Part A of open-label extension (OLE) Study VX19-445-107 (Study 107), designed to provide long-term (>24 weeks) safety and efficacy of VX445/TEZ/IVA combination therapy in subjects with cystic fibrosis data in paediatric patients aged 6 through 11 years. Overall, the interim analysis showed that ELX/TEZ/IVA was generally safe and well tolerated during 96 weeks of treatment in CF patients 6-11 years of age, with a safety profile generally consistent with that of the parent study and with the established safety profile of ELX/TEZ/IVA. Efficacy was a secondary objective of Study 107 and the interim analysis

	new quality, preclinical, clinical or pharmacovigilance data				showed sustained improvements in main secondary endpoints percent predicted forced expiratory volume in 1 second (ppFEV1), sweat chloride (SwCl), Cystic Fibrosis Questionnaire-Revised Respiratory Domain (CFQ-R-RD) score, and lung clearance index (LCI2.5), consistent with the results observed in the study 445-106. For more information, please refer to the Summary of Product Characteristics.
PSUSA/10868 /202210	Periodic Safety Update EU Single assessment - ivacaftor / tezacaftor / elexacaftor	25/05/2023	17/07/2023		Refer to Scientific conclusions and grounds recommending the variation to terms of the Marketing Authorisation(s) for PSUSA/10868/202210.
IAIN/0040	A.5.a - Administrative change - Change in the name and/or address of a manufacturer/importer responsible for batch release	07/07/2023	22/11/2023	Annex II and PL	
IB/0038/G	This was an application for a group of variations. B.II.f.1.b.1 - Stability of FP - Extension of the shelf life of the finished product - As packaged for sale (supported by real time data) B.II.f.1.b.1 - Stability of FP - Extension of the shelf life of the finished product - As packaged for sale (supported by real time data)	31/05/2023	22/11/2023	SmPC	Product information section 6.3 is updated to reflect the shelf-life extension of the finished product Kaftrio 75 mg/50 mg/100 mg film-coated tablets (EU/1/20/1468/001) as packaged for sale from 36 months to 48 months. Product information section 6.3 is updated to reflect the shelf-life extension of the finished product Kaftrio 37.5 mg/25 mg/50 mg film-coated tablets (EU/1/20/1468/002) as packaged for sale from 24 months to 36 months.
IB/0037	B.II.b.5.z - Change to in-process tests or limits applied during the manufacture of the finished product - Other variation	29/03/2023	n/a		
IAIN/0036	B.II.g.5.a - Implementation of changes foreseen in	02/03/2023	n/a		

	an approved change management protocol - Requires no further supporting data				
WS/2403	This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008. B.II.f.z - Stability of FP - Other variation	26/01/2023	n/a		
PSUSA/10868 /202204	Periodic Safety Update EU Single assessment - ivacaftor / tezacaftor / elexacaftor	01/12/2022	n/a		PRAC Recommendation - maintenance
II/0024	Update of sections 4.8 and 5.1 of the SmPC in order to update efficacy and safety information based on interim results from clinical study VX17-445-105 (Study 105) listed as a category 3 study in the RMP; this is a Phase III, open label extension study to evaluate the long-term safety and efficacy of ELX/TEZ/IVA in CF subjects homozygous for F508del (F/F genotype) or heterozygous for F508del and a minimal function (MF) mutation (F/MF genotypes). The RMP version 6.1 has also been submitted. In addition, the MAH took the opportunity to implement minor corrections (section 5.3 and 6.5); as well as editorial changes to the SmPC. The requested variation proposed amendments to the Summary of Product Characteristics and to the Risk Management Plan (RMP). C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data	01/12/2022	17/07/2023	SmPC and PL	The MAH submitted with this variation the interim results of the open-label clinical study VX17-445-105 (Study 105), designed to evaluate the long-term safety and efficacy of Kaftrio treatment for 192 weeks in cystic fibrosis (CF) subjects, 12 years of age and older and homozygous or heterozygous for the F508del mutation. Overall, the interim analysis of 506 patients showed a clinically relevant and durable treatment effect in CF subjects throughout the first 96 weeks of treatment. Patients from the control arms as well as patients who received IVA/TEZ/ELX in combination with IVA in the parent studies 445-102 and 445-103, showed sustained or continued improvements in percent predicted Forced Expiratory Volume in 1 second (ppFEV1), Sweat Chloride (SwCl), Cystic Fibrosis Questionnaire – Revised Respiratory Domain (CFQ-R RD) score, Body Mass Index (BMI), BMI z-score, and weight over 96 weeks of treatment. No new safety concerns were identified with extended ELX/TEZ/IVA treatment. For more information, please refer to the Summary of

					Product Characteristics.
IB/0031	B.I.d.1.a.4 - Stability of AS - Change in the re-test period/storage period - Extension or introduction of a re-test period/storage period supported by real time data	24/10/2022	n/a		
II/0017/G	This was an application for a group of variations. C.I.4 Update of section 5.3 of the SmPC in order to update the non-clinical information based on final results from a 2-year oral carcinogenicity study in rats (VX-445-TX-015) evaluating the carcinogenic potential of up to 10 mg/kg/day of elexacaftor. An updated RMP (version 6.0) has also been submitted to include the completion of the 2-year carcinogenicity study in rats as well as to update the post-market pregnancy safety information collection form following EMEA/H/C/WS2048. C.I.13 To submit the final report of Tezacaftor Juvenile Toxicity study (VX-661-TX-038). C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data C.I.13 - Other variations not specifically covered elsewhere in this Annex which involve the submission of studies to the competent authority	29/09/2022	02/12/2022	SmPC	This variation concerns the submission of the final study reports from 2 non-clinical studies. In the 2-year oral carcinogenicity study in rats (VX-445-TX-015), administration of elexacaftor up to 10mg/kg/day by oral gavage did not reveal carcinogenic potential. The juvenile toxicity study (VX-661-TX-038) aimed to determine the potential effects of once-daily oral (gavage) administration of tezacaftor alone or in combination with ivacaftor on growth and development in juvenile rats. Rats exposed during postnatal day 7 to 35 (PND 7-35) showed mortality and moribundity, even at low doses. Findings were dose related and generally more severe when dosing with tezacaftor was initiated earlier in the postnatal period. Exposure in rats from PND 21-49 did not show toxicity at the highest dose which was approximately two times the intended human exposure. Tezacaftor and its metabolite, M1-TEZ, are substrates for P glycoprotein. Lower brain levels of P-glycoprotein activity in younger rats resulted in higher brain levels of tezacaftor and M1-TEZ. These findings are not relevant for the indicated paediatric population 6 to 11 years of age, for whom levels of P-glycoprotein activity are equivalent to levels observed in adults. For more information, please refer to the Summary of Product Characteristics.

IB/0029	C.I.3.z - Change(s) in the SPC, Labelling or PL intended to implement the outcome of a procedure concerning PSUR or PASS or the outcome of the assessment done under A 45/46 - Other variation	20/08/2022	02/12/2022	SmPC	Sections 4.8 and 5.1 of the SmPC have been updated to implement the wording agreed by the CHMP following the outcome of the assessment done under Articles 45 or 46 of Regulation 1901/2006 in procedure EMEA/H/C/005269/P46/008.
IG/1530	B.I.a.2.a - Changes in the manufacturing process of the AS - Minor change in the manufacturing process of the AS	28/06/2022	n/a		
PSUSA/10868 /202110	Periodic Safety Update EU Single assessment - ivacaftor / tezacaftor / elexacaftor	10/06/2022	n/a		PRAC Recommendation - maintenance
IA/0026	B.I.b.2.a - Change in test procedure for AS or starting material/reagent/intermediate - Minor changes to an approved test procedure	26/04/2022	n/a		
IA/0025/G	This was an application for a group of variations. A.4 - Administrative change - Change in the name and/or address of a manufacturer or an ASMF holder or supplier of the AS, starting material, reagent or intermediate used in the manufacture of the AS or manufacturer of a novel excipient A.4 - Administrative change - Change in the name and/or address of a manufacturer or an ASMF holder or supplier of the AS, starting material, reagent or intermediate used in the manufacture of the AS or manufacturer of a novel excipient	22/04/2022	n/a		
IAIN/0023	B.II.b.1.a - Replacement or addition of a manufacturing site for the FP - Secondary packaging	21/03/2022	n/a		

	site				
IB/0020	B.II.f.1.b.1 - Stability of FP - Extension of the shelf life of the finished product - As packaged for sale (supported by real time data)	22/02/2022	02/12/2022	SmPC	To extend the shelf-life of the finished product Kaftrio 75/50/100 film-coated tablets, EU/1/20/1468/001, as packaged for sale from 24 months to 36 months when stored in the intended container closure system.
IAIN/0022	B.II.g.5.a - Implementation of changes foreseen in an approved change management protocol - Requires no further supporting data	17/02/2022	n/a		
IB/0021/G	This was an application for a group of variations. B.I.a.2.a - Changes in the manufacturing process of the AS - Minor change in the manufacturing process of the AS B.I.a.1.f - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - Changes to quality control testing arrangements for the AS -replacement or addition of a site where batch control/testing takes place B.I.a.1.a - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - The proposed manufacturer is part of the same pharmaceutical group as the currently approved manufacturer B.I.a.1.a - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - The proposed manufacturer is part of the same pharmaceutical group as the currently approved manufacturer B.I.a.3.a - Change in batch size (including batch size	17/02/2022	n/a		

	ranges) of AS or intermediate - Up to 10-fold increase compared to the originally approved batch size				
X/0008/G	This was an application for a group of variations. Annex I_2.(c) Change or addition of a new strength/potency C.I.6.a - Change(s) to therapeutic indication(s) - Addition of a new therapeutic indication or modification of an approved one	11/11/2021	07/01/2022	SmPC, Annex II, Labelling and PL	Please refer to the Scientific Discussion: Kaftrio EMEA/H/C/005269/X/0008/G
IG/1460	A.1 - Administrative change - Change in the name and/or address of the MAH	13/12/2021	02/12/2022	SmPC, Labelling and PL	
PSUSA/10868 /202104	Periodic Safety Update EU Single assessment - ivacaftor / tezacaftor / elexacaftor	02/12/2021	n/a		PRAC Recommendation - maintenance
WS/2085	This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008. Update of section 4.4 and 4.8 of the Summary of Product Characteristics (SmPC) to add "liver injury" and "total bilirubin elevations" as new adverse reactions with a frequency unknown and reinforce corresponding existing warning following cases of liver injury and liver failure in the post marketing setting. The Package Leaflet (PL) is updated accordingly. Kaftrio's RMP is updated to version 3.1 to upgrade hepatotoxicity from a potentially serious	14/10/2021	07/01/2022	SmPC and PL	In a patient with cirrhosis and portal hypertension liver failure leading to transplantation has been reported while receiving Ivacaftor/Tezacaftor/Elxacaftor (IVA/TEZ/ELX) in combination with ivacaftor. IVA/TEZ/ELX in combination with IVA should be used with caution in patients with pre existing advanced liver disease (e.g. cirrhosis, portal hypertension) and only if the benefits are expected to outweigh the risks. If used in these patients, they should be closely monitored after the initiation of treatment. Elevated transaminases are common in patients with CF and have been observed in some patients treated with IVA/TEZ/ELX in combination with IVA. In patients taking IVA/TEZ/ELX in combination with IVA, these elevations

	risk to an important identified risk. C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data				have sometimes been associated with concomitant elevations in total bilirubin. Assessments of transaminases (ALT and AST) and total bilirubin are recommended for all patients prior to initiating treatment, every 3 months during the first year of treatment, and annually thereafter. For patients with a history of liver disease or transaminase elevations, more frequent monitoring should be considered. In the event of ALT or AST >5 x the upper limit of normal (ULN), or ALT or AST >3 x ULN with bilirubin >2 x ULN, dosing should be interrupted, and laboratory tests closely followed until the abnormalities resolve. Following the resolution of transaminase elevations, the benefits and risks of resuming treatment should be considered. Liver injury and total bilirubin elevations are added as new adverse reactions with a frequency "not known" as the frequency cannot be estimated from the available data. Kaftrio's RMP is updated to version 3.1 to upgrade hepatotoxicity from a potential serious risk to an important identified risk.
II/0011/G	This was an application for a group of variations. B.II.b.1.d - Replacement or addition of a manufacturing site for the FP - Site which requires an initial or product specific inspection A.5.b - Administrative change - Change in the name and/or address of a manufacturer/importer of the finished product, including quality control sites (excluding manufacturer for batch release) B.II.b.3.z - Change in the manufacturing process of the finished or intermediate product - Other variation	07/10/2021	n/a		

IB/0015	B.I.b.1.d - Change in the specification parameters and/or limits of an AS, starting material/intermediate/reagent - Deletion of a non-significant specification parameter (e.g. deletion of an obsolete parameter)	26/05/2021	n/a		
IB/0013/G	This was an application for a group of variations. B.I.d.1.a.4 - Stability of AS - Change in the re-test period/storage period - Extension or introduction of a re-test period/storage period supported by real time data B.I.d.1.c - Stability of AS - Change in the re-test period/storage period or storage conditions - Change to an approved stability protocol	10/05/2021	n/a		
II/0001	Extension of indication of Kaftrio to patients with CF aged 12 years and older who have at least one F508del mutation in the CFTR gene, regardless of the second allele, based on the results of Study VX18-445-104 in CF patients 12 years and older. This is an 8-week randomized, double-blind, controlled study in subjects heterozygous for the F508del mutation and a gating or residual function mutation (F/G and F/RF genotypes). Changes were also made to the PI to bring it in line with the current Agency/QRD template. As a consequence of this new indication and QRD changes, sections 4.1, 4.2, 4.4, 4.5, 4.6, 4.7, 4.8, 5.1 and 5.2, 5.3 and 6.6 of the SmPC have been updated. The Package Leaflet has been updated accordingly. The RMP is updated to version 2.	25/03/2021	26/04/2021	SmPC and PL	Please refer to the Scientific Discussion: Kaftrio EMEA/H/C/005269/II/0001

	C.I.6.a - Change(s) to therapeutic indication(s) - Addition of a new therapeutic indication or modification of an approved one				
IAIN/0012	B.II.b.1.a - Replacement or addition of a manufacturing site for the FP - Secondary packaging site	15/04/2021	n/a		
IAIN/0007/G	This was an application for a group of variations. B.II.g.5.a - Implementation of changes foreseen in an approved change management protocol - Requires no further supporting data A.4 - Administrative change - Change in the name and/or address of a manufacturer or an ASMF holder or supplier of the AS, starting material, reagent or intermediate used in the manufacture of the AS or manufacturer of a novel excipient	05/03/2021	n/a		
IB/0004	B.I.d.1.a.4 - Stability of AS - Change in the re-test period/storage period - Extension or introduction of a re-test period/storage period supported by real time data	22/02/2021	n/a		
IAIN/0006/G	This was an application for a group of variations. B.I.a.1.f - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - Changes to quality control testing arrangements for the AS -replacement or addition of a site where batch control/testing takes place	11/02/2021	n/a		

	B.I.a.1.a - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - The proposed manufacturer is part of the same pharmaceutical group as the currently approved manufacturer B.I.a.1.a - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - The proposed manufacturer is part of the same pharmaceutical group as the currently approved manufacturer A.4 - Administrative change - Change in the name and/or address of a manufacturer or an ASMF holder or supplier of the AS, starting material, reagent or intermediate used in the manufacture of the AS or manufacturer of a novel excipient				
IA/0005/G	This was an application for a group of variations. B.II.b.4.a - Change in the batch size (including batch size ranges) of the finished product - Up to 10-fold compared to the originally approved batch size B.I.d.1.c - Stability of AS - Change in the re-test period/storage period or storage conditions - Change to an approved stability protocol B.II.b.4.a - Change in the batch size (including batch size ranges) of the finished product - Up to 10-fold compared to the originally approved batch size B.II.b.4.a - Change in the batch size (including batch size ranges) of the finished product - Up to 10-fold compared to the originally approved batch size A.4 - Administrative change - Change in the name and/or address of a manufacturer or an ASMF holder	11/02/2021	n/a		

	or supplier of the AS, starting material, reagent or intermediate used in the manufacture of the AS or manufacturer of a novel excipient B.I.d.1.c - Stability of AS - Change in the re-test period/storage period or storage conditions - Change to an approved stability protocol A.4 - Administrative change - Change in the name and/or address of a manufacturer or an ASMF holder or supplier of the AS, starting material, reagent or intermediate used in the manufacture of the AS or manufacturer of a novel excipient B.I.a.1.f - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - Changes to quality control testing arrangements for the AS -replacement or addition of a site where batch control/testing takes place				
II/0003	C.I.13: Submission of the final clinical study report for study VX18-445-007 (study 007), listed as a category 3 study in the RMP with the aim to evaluate the pharmacokinetics of Kaftrio (elexacaftor/tezacaftor/ivacaftor) in subjects with moderate hepatic impairment. The RMP version 1.2 has also been submitted. C.I.13 - Other variations not specifically covered elsewhere in this Annex which involve the submission of studies to the competent authority	11/02/2021	n/a		Kaftrio is not recommended in patients with moderate hepatic impairment and should only be considered, when there is a clear medical need and the benefits are expected to outweigh the risks. In these patients, a recommendation to apply a reduced dose was agreed during the initial marketing authorisation as follows: In case of moderate hepatic impairment, a possible 25% reduction of the elexacaftor and tezacaftor dose, 62.5% reduction of the ivacaftor dose over a 48 hour period should be considered. Data from the Study VX18-445-007 provide further support for the current dose-advice in patients with moderate hepatic impairment. The dose-reduction (i.e. a 25% reduction in the doses of elexacaftor, tezacaftor, and their respective metabolites and a 62.5% reduction in the dose

					of ivacaftor over a 48-hour period) is expected to lead to comparable exposure to elexacaftor and M23-elexacaftor, to a 40% reduction in ivacaftor exposure and to a 10% decrease in tezacaftor exposure. In conclusion, the current recommendation in the product information does not need to be amended. The RMP (version 1.2) is updated to reflect the submission of this category 3 study and fulfilment of this post approval commitment.
N/0002	Minor change in labelling or package leaflet not connected with the SPC (Art. 61.3 Notification)	04/11/2020	26/04/2021	PL	