Summary of the risk management plan (RMP) for Dutrebis (lamivudine / raltegravir)

This is a summary of the risk management plan (RMP) for Dutrebis, which details the measures to be taken in order to ensure that Dutrebis is used as safely as possible. For more information on the summaries, see here.

This RMP summary should be read in conjunction with the EPAR summary and the pocuct information for Dutrebis, which can be found on <u>Dutrebis's EPAR page</u>.

Overview of disease epidemiology

Dutrebis is a medicine used to treat patients with human immunodeficier cy virus (HIV), the virus that causes acquired immunodeficiency syndrome (AIDS).

HIV is a virus that attacks the immune system (the body's nat rai defences) and weakens it by destroying certain white blood cells (called CD4 T cells), which are important for protecting the body against various bacteria, viruses and other germs. If left untreated, the HIV virus multiplies and the body becomes increasingly unable to fight infections and disease. In 2012 over 35 million people were living with HIV, increased from 34 million in 2011 (including 900,000 in Western and Central Europe and 1.4 million in Eastern Europe and Central Asia). In 2012, about 2.3 million people were newly infected with HIV. Worldwide, 3.4 million children aged below 15 years were living with HIV in 2010 (19,000 children in Europe).

There is no cure for HIV, but early distertion and effective treatment with medicines that stop the virus multiplying can reduce the amount of HIV virus in the blood and keep it at a low level, allowing patients to stay healthy and live longer lives.

Summary of treatment benefits

Dutrebis is available at tablets containing the active substances lamivudine and raltegravir, which are already used in the European Union (EU) as single-component medicines for the treatment of HIV infection, since 1.396 in the case of lamivudine and 2007 for raltegravir. Because lamivudine and raltegravir are already approved individually to treat HIV infection, the company presented data from the studies used to approve these medicines, including a study involving 160 patients given raltegravir with a mixturdine (plus another HIV medicine, tenofovir) for a total of 240 weeks. The main measure of first veness was the proportion of patients with a reduction of the levels of virus in the blood (viral load) to fewer than 50 copies of HIV RNA per mI, which was 68.8%.

The company also looked at the way Dutrebis was absorbed in the body in comparison with two separate tablets containing lamivudine and raltegravir. The results of the studies showed that Dutrebis produced similar levels of lamivudine in the body to lamivudine taken separately; although the levels of raltegravir were slightly different, they were considered similarly effective in controlling the virus.

Unknowns relating to treatment benefits

Studies with Dutrebis have included few or no children under 6 years of age, pregnant women, elderly patients (over 65 years of age), and patients with severely reduced liver function. The safety and effectiveness of the medicine are therefore not known in these groups of patients.

Summary of safety concerns

Important identified risks

	T	
Risk	What is known	Preventability
Inflammation during	IRIS is a condition seen in HIV	At present, there does not seem in be a
recovery of the	patients whose immune system is	specific way to prevent IRIS. Healthcare
immune system	recovering, as a result of treatment	professionals and patient should be aware
(immune	with HIV medicines. During	of the possibility of the reaction and the
reconstitution	recovery, there can be a reaction to	need for treatment of any infection and
inflammatory	an existing infection in the body,	inflammatory symp oms as appropriate.
syndrome - IRIS)	causing severe inflammation at the	4
	site of the infection. IRIS is	
	considered to be an uncommon	70
	adverse effect in patients treated	~0)
	with Dutrebis (affecting less than 1	
	patient in 100).) •
Reduced effect of	Drug-resistant viruses can appear	Patients should take the medicine as
the medicine	during therapy and because they	prescribed, which will lower the chance
against HIV (drug	are harder to treat can lend to	of resistance. Patients are advised to
resistance)	treatment failure. In addition, drug-	avoid even a short interruption of
	resistant viruses can be passed from	treatment, as it can lead to resistance.
	person to person. This e are many	
	reasons that an Icad to viruses	
	becoming resistant including not	
	taking the n edication as prescribed,	
	such as skipping doses.	
Effects of other	Durelis should not be taken with	These effects can be prevented by
medicines on	rertain medicines such as the	avoiding the use of such medicines in
Dutrebis (interaction	antibiotic rifampicin as they can	patients who use Dutrebis. If use with a
with rifampicin and	increase the breakdown in the body	medicine such as rifampicin is essential,
other medicines	of raltegravir, one of the active	the individual active substances,
knowi as strong	substances in the medicine, and so	lamivudine and raltegravir, should be
UGT1 41 . naucers;	may lower its effectiveness against	used instead of Dutrebis, and their doses
in eraction with	HIV.	adjusted separately as appropriate.
กาลฐกesium and/or		
· luminium antacids)	Certain antacids (those containing	
	aluminium or magnesium) are also	
	not recommended with Dutrebis	
	because they can lower the level of	
	raltegravir absorbed into the body.	
Variations in levels	There may be variations in the	Variations in the levels of active
of active substance	levels of the active substances in	substances with Dutrebis have not

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Risk	What is known	Preventability
in the body and possible impact on safety and effectiveness of the medicine (pharmacokinetic	the body after a dose of Dutrebis, both in the same patient at different times and in different patients.	currently been shown to affect safety and effectiveness of the medicine. While the risk of such variations cannot be eliminated, it can be minimised by taking the medicine at regular times as instructed by the doctor.
variability and impact, if any, on pharmacodynamics)		:50
Serious rash	Allergic reactions, including severe and life-threatening skin reactions, have been reported in some patients taking raltegravir, one of the active substances in Dutrebis.	At present, there does not seem to be a specific way to prevent a ser ous rash, as in general, serious drug, releted skin reactions are not predictable. Patients are advised to contact their doctor promptly if the relevance of the results are reserved.
Build-up of lactic acid in the body (lactic acidosis)	Cases of lactic acidosis, which is a serious and potentially life-threatening side effect, have been reported rarely (in less than 1 patient in 1,000) in those treated with NRTIs (the class of HIV medicines to which lamivudine, one of the active substances in Dutrenis, belongs). Where it has occurred, it has usually developed after a few months of treatment. Symptoms can develop graditally and may include unusual muscle pain and weakness, thous le breathing, fast or uneven near thrate, nausea (feeling sick) comiting, stomach pain, and numbriess or a cold feeling in the	Patients should be monitored for signs of lactic actures, especially if at increased risk of developing the condition (such as those with existing liver disease – see Lelow – or who are obese, particularly vomen). Doctors should exercise extra caution when prescribing Dutrebis to patients at increased risk of developing lactic acidosis. Patients should contact their doctor at once if they experience any of the symptoms of lactic acidosis, even if they are only mild.
Swelling of the liver with fat build-113 (severe hepatomegaly with steat(sis)	arms or legs. When lactic acidosis (above) occurs in patients given an NRTI it is usually associated with hepatomegaly (swelling of the liver) or steatosis (fatty liver). Liver problems including steatosis have been reported uncommonly (in less than 1 person in 100) in patients taking Dutrebis. Symptoms of liver problems include persistent nausea, stomach/abdominal pain, loss of appetite, dark urine, or yellowing of the eyes/skin.	Patients should contact their doctor if they experience any symptoms of liver problems. Regular blood tests to check for liver damage are usually part of the medical care for patients with HIV. Liver monitoring with Dutrebis is advised in patients who have existing liver disease or are obese, particularly in women. Treatment with Dutrebis should be suspended in any patient who develops symptoms of hepatomegaly.
Inflammation of the pancreas	Pancreatitis has been observed in some patients receiving lamivudine.	Doctors are advised to use Dutrebis with caution in patients previously treated

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Risk	What is known	Preventability	
(pancreatitis)	Symptoms include severe pain in	with NRTIs, who have had pancreatitis of	
	the upper stomach that spreads to	have other risk factors for its	
	the back, nausea and vomiting, or	development. Treatment with Dutrebis	
	fast heart rate.	should be stopped immediately if	
		symptoms suggestive of pancreatitis	
		occur.	

Important potential risks

Risk	What is known		
Abnormal body fat	Lipodystrophy is an alteration in distribution of fat on the body that has been		
distribution	seen with many types of HIV medicines, and therefore is considered a		
(lipodystrophy)	potential risk with Dutrebis. It may include loss of fat from Lgs, arms, and		
	face, and increase in fat around the belly. Patients who have a low body mass		
	index (BMI) when they start HIV medications may develop a form of this		
	condition called lipoatrophy which is a loss of a . Clder patients and those		
	who are already obese or overweight are more likely to have fat accumulation.		
Potential for	There is a potential risk that Dutrebis may be given to children below 6 years		
unauthorised (off-	of age or in children 6 to 11 years of age weighing less than 30 kg. Dutrebis is		
label) use in children	not authorised in these groups and should not be used in them, as it has not		
less than 6 years of	been shown to provide suitable doces of the active substances. It is estimated		
age or weighing less	that children aged 6 to 11 years may be potentially exposed to relatively		
than 30 kg; safety	greater amounts of the rall gravir component for their weight than other		
concerns related to	patients.		
potentially increased			
exposure to			
raltegravir in children			
6 to 11 years of age			
Malignancies	All patients with HIV infection may be at risk for malignancy (cancer) because		
	of c weakened immune system. Experimental results in rats, but not in mice,		
	indicated that raltegravir may be associated with the development of cancers		
	of the nose or throat, so it is considered a potential risk for Dutrebis. However		
~'0	in clinical studies, the number of HIV patients taking raltegravir who		
	developed cancer was similar to that of patients taking other HIV medicines.		
Increase in live:	Patients who take raltegravir, one of the active ingredients of Dutrebis, may		
enzyn es (il crease in	experience an increase in the level of liver enzymes in their blood tests (a		
liver bloch tests)	potential sign of liver problems). This risk is increased if patients already have		
0,	impaired liver function and if patients are also infected with hepatitis B or		
	hepatitis C before they start taking the medicine.		
	Patients are advised to inform their healthcare providers if they have had		
	problems with their liver before, such as hepatitis B or hepatitis C.		
Increase in creatine	Creatine kinase is an enzyme that is released when muscles are damaged or		
kinase and muscle	strained, such as by exercise. Muscle problems such as rhabdomyolysis (rapid		
damage (myopathy,	muscle breakdown) or myopathy (muscle weakness) can occur in association		
rhabdomyolysis)	with HIV infection, or following treatment with some medicines, including HIV		
	medicines such as raltegravir (one of the active substances in Dutrebis) and		

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Risk	What is known		
	protease inhibitors, statins, colchinine, antimalaria medicines, clofibrate, and		
	corticosteroids. Because patients with HIV often take a combination of		
	medications, it can be difficult to determine the origin of the problem.		
	Patients are advised to contact their doctor promptly if they experience		
	unexplained muscle pain, tenderness, or weakness while taking Dutrebis.		
Depression, suicidal	Depression, suicidal thoughts and actions have been reported in some patients		
ideation and suicidal	taking raltegravir, particularly in patients with a prior history of depression or		
behaviours	psychiatric illness. It is therefore considered a potential risk for Dutrebis.		
	Patients are advised to tell their doctor if they have a history of depression (r psychiatric illness.		
Use of Dutrebis in	Use of Dutrebis is not recommended in pregnancy. Although a number of		
pregnancy or while	women have taken lamivudine (one of the active substances in the medicine)		
breastfeeding	during pregnancy without apparent harm to the baby, experimental results in		
	rats have suggested that raltegravir, the other active sunstance, might		
	potentially affect the developing fetus. These effects hr.vp not been seen in		
	rabbits, and their relevance for humans is unknown.		
	Breastfeeding is not recommended while taking Dutrebis, but in any case it is		
	recommended that women with HIV should no breastfeed their infants		
	because babies can be infected with h.V through their breast milk.		
	Patients should ask their doctor pharmacist or nurse for advice before taking		
	any medicine if pregnant or breast feeding.		

Missing information

Risk	What is known		
Use during pregnancy	There are poal equate and well-controlled studies of Dutrebis in pregnant		
	women. Use is not recommended in pregnancy.		
Long-term safety in	Only a few patients aged 65 and over were involved in clinical studies used to		
older patients	support the licensing of Dutrebis and it is not known whether they could		
	respond differently from younger patients.		
Long-term safety in	Although raltegravir and lamivudine as separate medicines have proven safe		
patients also infected	for use in patients co-infected with hepatitis B or C, the safety and		
with hepatitis E or S	effectiveness of Dutrebis has not been established in this population.		
(co-infection)			
Long-verice safety in	The safety and effectiveness of lamivudine and raltegravir have not been		
patients with severely	established in patients with existing severe liver disorders. Therefore Dutrebis		
reduced liver function	should be used with caution in patients with severely reduced liver function.		
(L'epatic impairment)			

Summary of risk minimisation measures by safety concern

All medicines have a summary of product characteristics (SmPC) which provides physicians, pharmacists and other healthcare professionals with details on how to use the medicine, and also describes the risks and recommendations for minimising them. Information for patients is available in

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lay language in the package leaflet. The measures listed in these documents are known as 'routine risk minimisation measures'.

The SmPC and the package leaflet are part of the medicine's product information. The product information for Dutrebis can be found on <u>Dutrebis's EPAR page</u>.

This medicine has no additional risk minimisation measures.

Planned post-authorisation development plan

List of studies in post-authorisation development plan

Study/activity (including study number)	Objectives	Safety concerns /efficacy issue addressed	Status	Plan ed date for submission of (interim and) final results
Observational post	The overall objective	Malignancy, selected	Ongoir	The final study
authorization	of the analysis is to	clinically important	.0.	report was
safety study (058)	investigate the	liver outcomes,	~	submitted in June
	incidence of clinically	lipodystrophy, all-		2014.
	important medical	cause mortality, lon 3-		
	events following	term safety data.	V	
	treatment with			
	raltegravir.			
Observational post	A medical records	Maligna.sy, selected	Ongoing.	The final study
authorization	database will be used	clinica.'v i mportant		report submitted
safety study	to assess the	liver outcomes,		in December
(EPO8025.006)	incidence of pre-	lipodystrophy, all-		2014.
	specified health	cause mortality,		
	outcomes of interest	serious rash, selected		
	in HIV-infected	clinically important		
	patients treated with	muscle outcomes,		
	raltegra vir under	long-term safety data.		
	conditions of routine			
	use following approval			
	of the medicine.			
Collaboration with	Along with other	Monitored risks	Ongoing.	The MAH will
the D:A:D Ccho.:t	marketing	include cardiovascular		support the
Study	authorisation holders	risk; however, the		collaboration until
	(MAHs), the MAH is	study outcomes are		2017 at which
	currently supporting	not specific to		time the D:A:D
	the D: A: D cohort to	raltegravir.		study will be
	monitor the safety of			completed.
	anti-retrovirals in			
	Europe.			
Study 022	Evaluation of safety,	Long-term safety data	Ongoing	Submission 31
	PK (how the medicine	in populations		Dec 2017
	is handled in the	studied-paediatric		(Final Week 240
	body) and efficacy in	patients aged 4 weeks		CSR).
	paediatric patients 4	to 18 years.		

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Study/activity (including study number)	Objectives	Safety concerns /efficacy issue addressed	Status	Planned date for submission of (interim and) final results
	weeks to 18 years of age.			
Study 022- chewable tablet Ctrough substudy (Version 3.0, LOA #4)	Collection of additional Ctrough PK data in paediatric patients 2 to below 6 years of age, receiving the chewable tablet formulation.	PK variability and exposure in paediatric patients aged 2 to under 6 years.	Ongoing.	Submitted in November 2014.
Study 083 (ex- US) (Compassionate access program)	Compassionate use program to provide the raltegravir chewable tablet and granules for suspensions until commercially available.	Long term safety data in populations studied- paediatric patients aged 4 weeks to under 12 years.	Ongoing.	Size effects are munitored on an origoing basis and reported upon identification of new safety concerns.
Study 135 (US) (Compassionate access program)	Compassionate use program to provide the raltegravir granules for suspensions until commercially available.	Long-term sciet/ data in populations studied naediatric pation s sged 4 weeks to under 12 years.	Ongoing.	Side effects are monitored on an ongoing basis and reported upon identification of new safety concerns.
Antiretroviral Pregnancy Registry (APR) (FDC Registry)	The APR is an international collabor itive project to munifor reported exposites to antiretroviral riedicines during pregnancy. The Registry is designed to provide an early signal of teratogenicity (malformations) with prenatal use of the medicines monitored through the Registry	Exposure during pregnancy.	Ongoing.	Provided within each regular report required for safety monitoring (PSUR submission)

Studies which are a condition of the marketing authorisation

None of the above studies are a condition of the marketing authorisation.

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Summary of changes to the risk management plan over time

Major changes to the Risk Management Plan over time

Not applicable.

Medicinal product no longer authorised

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