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Part VI: Summary of the risk management plan

Summary of risk management plan for Fingolimod beta 0,5 mg Hartkapseln (fingolimod)

This is a summary of the risk management plan (RMP) for Fingolimod beta 0,5 mg Hartkapseln. The RMP details important risks of Fingolimod beta, how these risks can be minimised, and how more information will be obtained about Fingolimod beta's risks and uncertainties (missing information).

Fingolimod beta's summary of product characteristics (SmPC) and its package leaflet give essential information to healthcare professionals and patients on how Fingolimod beta should be used.

Important new concerns or changes to the current ones will be included in updates of Fingolimod beta's RMP.

I. The medicine and what it is used for

Fingolimod beta is authorised as single disease modifying therapy in highly active relapsing remitting multiple sclerosis for the following groups of adult patients and paediatric patients aged 10 years and older (see SmPC for the full indication):

• Patients with highly active disease despite a full and adequate course of treatment with at least one disease modifying therapy

or

• Patients with rapidly evolving severe relapsing remitting multiple sclerosis defined by 2 or more disabling relapses in one year, and with 1 or more Gadolinium enhancing lesions on brain MRI or a significant increase in T2 lesion load as compared to a previous recent MRI.

It contains fingolimod as the active substance and it is given orally.

II. Risks associated with the medicine and activities to minimise or further characterise the risks

Important risks of Fingolimod beta, together with measures to minimise such risks and the proposed studies for learning more about Fingolimod beta's risks, are outlined below.

Measures to minimise the risks identified for medicinal products can be:

- Specific information, such as warnings, precautions, and advice on correct use, in the package leaflet and SmPC addressed to patients and healthcare professionals;
- Important advice on the medicine's packaging;
- The authorised pack size the amount of medicine in a pack is chosen so to ensure that the medicine is used correctly;
- The medicine's legal status the way a medicine is supplied to the patient (e.g. with or without prescription) can help to minimise its risks.

Together, these measures constitute routine risk minimisation measures.

In the case of Fingolimod beta, these measures are supplemented with *additional risk minimisation measures* mentioned under relevant important risks, below.

In addition to these measures, information about adverse reactions is collected continuously and regularly analysed, so that immediate action can be taken as necessary. These measures constitute *routine pharmacovigilance activities*.

If important information that may affect the safe use of Fingolimod beta is not yet available, it is listed under 'missing information' below.

II.A List of important risks and missing information

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Important risks of Fingolimod beta are risks that need special risk management activities to further investigate or minimise the risk, so that the medicinal product can be safely taken. Important risks can be regarded as identified or potential. Identified risks are concerns for which there is sufficient proof of a link with the use of Fingolimod beta. Potential risks are concerns for which an association with the use of this medicine is possible based on available data, but this association has not been established yet and needs further evaluation. Missing information refers to information on the safety of the medicinal product that is currently missing and needs to be collected (e.g. on the long-term use of the medicine);

List of important risks and missing information	
Important identified risks	 Bradyarrhythmia (including conduction defects and bradycardia complicated by hypotension) occurring post-first dose Liver transaminase elevation Macular oedema Opportunistic infections including PML, VZV, herpes viral infections other than VZV, fungal infection Reproductive toxicity Skin cancer (Basal cell carcinoma, Kaposi's sarcoma, Malignant melanoma, Merkel cell carcinoma, Squamous cell carcinoma) Convulsions Lymphoma
Important potential risks	Other malignant neoplasms
Missing information	 Long-term use in paediatric patients, including impact on growth and development (including cognitive development)



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II.B Summary of important risks

Important identified risk: E bradycardia complicated E	3radyarrhythmia (including conduction defects and by hypotension) occurring post-first dose
Evidence for linking the risk to the medicine	Considered 'important' as a change in the risk could have an impact on the risk-benefit balance of the product.
Risk factors and risk groups	Patients with particular medical history and/or co- medications in whom bradycardia may be poorly tolerated or might be at increased risk for bradycardia. This includes patients with:
	second degree Mobitz type II or higher AV block
	sick-sinus syndrome
	sino-atrial heart block
	history of symptomatic bradycardia or recurrent syncope
	• significant QT prolongation (QTc>470msec (female} or >450msec (male}). Avoid in patients with risk factors for QT prolongation such as hypokalaemia, hypomagnesemia or congenital QT prolongation
	 known ischemic heart disease (including angina pectoris)
	cerebrovascular disease
	history of myocardial infarction
	congestive heart failure
	history of cardiac arrest
	uncontrolled hypertension
	severe sleep apnoea
	Other potential risk factors include concomitant administration with: Class Ia (e.g. quinidine, dysopyramide} or Class III (e.g. amiodarone, sotalol} anti-arrhythmic medicinal products.
	beta blockers
	• heart-rate-lowering calcium channel blockers (such as verapamil, diltiazem or ivabradine}, or other substances which may decrease heart rate (e.g. digoxin, anticholinesteratic agents or pilocarpine}.
Risk minimisation measures	Routine risk minimisation measures



Important identified risk: Bradyarrhythmia (including conduction defects and bradycardia complicated by hypotension) occurring post-first dose	
	SmPC section 4.3., 4.4, 4.5, 4.8 and 4.9
	PL section 2 and 4
	Routine risk minimisation activities recommending specific clinical measures to address the risk:
	SmPC section 4.3., 4.4, 4.5, 4.8 and 4.9
	PL section 2 and 4
	Other routine risk minimisation measures beyond the Product Information:
	Prescription-only medicine
	Additional risk minimisation measures
	Physician's checklist
	Patient / Parent / Caregiver guide
Additional pharmacovigilance activities	Routine PV activities beyond adverse reactions reporting and signal detection:
	Specific adverse event follow-up questionnaire

Important identified risk: Liver transaminase elevation	
Evidence for linking the risk to the medicine	Considered 'important' as a change in the risk could have an impact on the risk-benefit balance of the product.
Risk factors and risk groups	Not identified for fingolimod
Risk minimisation measures	Routine risk minimisation measures
	SmPC section 4.2, 4.3, 4.4, 4.8 and 5.2
	PL section 2 and 4
	Routine risk minimisation activities recommending specific clinical measures to address the risk:
	SmPC section 4.2, 4.3, 4.4, 4.8 and 5.2
	PL section 2 and 4
	Other routine risk minimisation measures beyond the Product Information:



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Important identified risk: Liver transaminase elevation	
	Prescription-only medicine
	Additional risk minimisation measures
	Physician's checklist
	Patient / Parent / Caregiver guide
Additional pharmacovigilance activities	Routine PV activities beyond adverse reactions reporting and signal detection:
	Specific adverse event follow-up questionnaire

Important identified risk: Macular oedema	
Evidence for linking the risk to the medicine	Considered 'important' as a change in the risk could have an impact on the risk-benefit balance of the product.
Risk factors and risk groups	Patients with diabetes and history of uveitis are considered at increased risk of developing macular oedema. Such patients should undergo an ophthalmic evaluation prior to initiating fingolimod therapy and have follow-up evaluations while receiving fingolimod therapy.
Risk minimisation	Routine risk minimisation measures
measures	SmPC section 4.4 and 4.8.
	PL section 2 and 4
	Routine risk minimisation activities recommending specific clinical measures to address the risk:
	SmPC section 4.4 and 4.8.
	PL section 2 and 4
	Other routine risk minimisation measures beyond the Product Information:
	Prescription-only medicine
	Additional risk minimisation measures
	Physician's checklist
	Patient / Parent / Caregiver guide
Additional pharmacovigilance	Routine PV activities beyond adverse reactions reporting and signal detection:
	Specific adverse event follow-up questionnaire



Important identified risk: opportunistic infections including PML, VZV, herpes viral infections other than VZV, fungal infection	
Evidence for linking the risk to the medicine	Considered 'important' as a change in the risk could have an impact on the risk-benefit balance of the product.
Risk factors and risk groups	Patients with increased risk for opportunistic infections, including immunocompromised patients (including those currently receiving immunosuppressive therapies or those immunocompromised by prior therapies) and those with severe active infections including active chronic infections {hepatitis, tuberculosis} should not receive fingolimod.
	Varicella-zoster virus infections
	Patients receiving concomitant immunosuppressive therapy may be at increased risk for VZV infections.
	The patient who died because of disseminated varicella zoster infection reported no history of varicella infection, no previous vaccination against varicella zoster (VZ) virus and was VZ virus-IgG negative. Therefore, patients with negative VZ virus-IgG results may be at increased risk of developing severe forms of primary infection with VZ virus, particularly in the context where they receive additional high-dose steroid therapy, e.g. in case of an MS relapse.
	Herpes viral infections other than VZV
	Patients receiving concomitant immunosuppressive therapy may be at increased risk for Herpes viral infections other than VZV.
	Progressive Multifocal Leukoencephalopathy (PML)
	PML primarily affects individuals with suppressed immune systems. In recent years, the most common underlying immunosuppressive illness has been AIDS. However, a variety of non-AIDS immunosuppressive illnesses has been associated with the occurrence of PML. These include lymphoreticular malignancy, most commonly chronic lymphocytic leukaemia or non- Hodgkin lymphoma. JC virus is a double- stranded DNA human polyomavirus acquired in childhood. After infection, it remains latent in the body. 50-70% of the adult population is seropositive. It is believed that all seropositive individuals harbour latent virus in kidney,



Important identified risk: opportunistic infections including PML, VZV, herpes viral infections other than VZV, fungal infection	
	reactivation infection. Whether the reactivation occurs systemically, with immunosuppression causing dissemination to the brain at that time, or the reactivation occurs from latent virus in the brain remains unclear.
	In people who are immunosuppressed, JC virus can reactivate and cause PML which is usually fatal.
	Cases of PML have been reported with another MS drug, natalizumab, a monoclonal antibody that blocks lymphocyte migration into the CNS (i.e. an effect on all lymphocyte subsets, including effector memory cells). Additionally, natalizumab has effects, such as mobilization of JC virus-carrying bone marrow precursor cells and splenic marginal zone B cells, which are not seen with fingolimod. The natalizumab label describes 3 risk factors that are known to increase the risk of PML in patients under therapy with natalizumab: treatment duration longer than 2 years, prior treatment with an immunosuppressant and presence of anti-JCV antibodies. Patients with all 3 known risk factors have an estimated risk of PML of 11/1,000.
	When evaluating the potential/theoretical risk with fingolimod, the specific risk factors should be considered:
	The presence of anti-JCV antibodies
	Switching to fingolimod after treatment with natalizumab for >2 years and duration of washout of natalizumab
	Prior treatment with an immunosuppressant medication (e.g., mitoxantrone, azathioprine, methotrexate, cyclophosphamide).
Risk minimisation	Routine risk minimisation measures
measures	SmPC section 4.3, 4.4, 4.5 and 4.8
	PL section 2 and 4
	Routine risk minimisation activities recommending specific clinical measures to address the risk:
	SmPC section 4.3, 4.4, 4.5 and 4.8
	PL section 2 and 4
	Other routine risk minimisation measures beyond the Product Information:

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Important identified risk: opportunistic infections including PML, VZV, herpes viral infections other than VZV, fungal infection	
	Prescription-only medicine
	Additional risk minimisation measures
	Physician's checklist
	Patient / Parent / Caregiver guide
Additional pharmacovigilance	Routine PV activities beyond adverse reactions reporting and signal detection:
activities	Specific adverse event follow-up questionnaire

Important identified risk: Reproductive toxicity	
Evidence for linking the risk to the medicine	Considered 'important' as a change in the risk could have an impact on the risk-benefit balance of the product.
Risk factors and risk groups	Females of childbearing potential not using an effective form of contraception. Fingolimod is excreted in milk of treated animals during lactation. Because of the potential for serious ADRs in nursing infants from fingolimod, women receiving fingolimod should not breast feed.
Risk minimisation	Routine risk minimisation measures
measures	SmPC section 4.3, 4.4, 4.6
	PL section 2
	Routine risk minimisation activities recommending specific clinical measures to address the risk:
	SmPC section 4.3, 4.4, 4.6
	PL section 2
	Other routine risk minimisation measures beyond the Product Information:
	Prescription-only medicine
	Additional risk minimisation measures
	Physician's checklist
	Patient / Parent / Caregiver guide
	Pregnancy-specific patient reminder card



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Important identified risk: Reproductive toxicity

Additional	Routine PV activities beyond adverse reactions
pharmacovigilance	reporting and signal detection:
activities	Specific adverse event follow-up questionnaire

Important identified risk: Skin cancer (Basal cell carcinoma, Kaposi's sarcoma, Malignant melanoma, Merkel cell carcinoma, Squamous cell carcinoma)

Evidence for linking the risk to the medicine	Considered 'important' as a change in the risk could have an impact on the risk-benefit balance of the product.
Risk factors and risk groups	None identified for fingolimod
Risk minimisation	Routine risk minimisation measures
measures	SmPC section 4.4 and 4.8.
	PL section 2 and 4
	Routine risk minimisation activities recommending specific clinical measures to address the risk:
	SmPC section 4.4 and 4.8.
	PL section 2 and 4
	Other routine risk minimisation measures beyond the Product Information:
	Prescription-only medicine
	Additional risk minimisation measures
	Physician's checklist
	Patient / Parent / Caregiver guide
Additional pharmacovigilance	Routine PV activities beyond adverse reactions reporting and signal detection:
activities	Specific adverse event follow-up questionnaire

Important identified risk: Convulsions	
Evidence for linking the risk to the medicine	Considered 'important' as a change in the risk could have an impact on the risk-benefit balance of the product.



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Important identified risk: Convulsions		
Risk factors and risk groups	No attributable increase due to fingolimod has been established. Therefore, no risk groups or risk factors can be identified.	
Risk minimisation measures	Routine risk minimisation measures	
	SmPC section 4.4 and 4.8.	
	PL section 2 and 4	
	Routine risk minimisation activities recommending specific clinical measures to address the risk:	
	None	
	Other routine risk minimisation measures beyond the Product Information:	
	Prescription-only medicine	
	Additional risk minimisation measures	
	Physician's checklist	
	Patient / Parent / Caregiver guide	
Additional pharmacovigilance activities	Routine PV activities beyond adverse reactions reporting and signal detection:	
	Specific adverse event follow-up questionnaire	

Important identified risk: Lymphoma		
Evidence for linking the risk to the medicine	Considered 'important' as a change in the risk could have an impact on the risk-benefit balance of the product.	
Risk factors and risk groups	Since this is a potential risk, no attributable increase due to fingolimod has been established. Therefore, no risk groups or risk factors can be identified.	
Risk minimisation measures	Routine risk minimisation measuresSmPC section 4.4, 4.8 and 5.3PL section 2 and 4Routine risk minimisation activities recommending specific clinical measures to address the risk:	

	None
	Other routine risk minimisation measures beyond the Product Information:
	Prescription-only medicine
	Additional risk minimisation measures:
	None
Additional pharmacovigilance activities	Routine PV activities beyond adverse reactions reporting and signal detection:
	Specific adverse event follow-up questionnaire

Important potential risk: Other malignant neoplasms		
Evidence for linking the risk to the medicine	Considered 'important' as a change in the risk could have an impact on the risk-benefit balance of the product.	
Risk factors and risk groups	Since this is a potential risk, no attributable increase due to fingolimod has been established. Therefore, no risk groups or risk factors can be identified.	
Risk minimisation measures	Routine risk minimisation measures	
	SmPC section 4.4 and 4.8.	
	PL section 2	
	Routine risk minimisation activities recommending specific clinical measures to address the risk:	
	SmPC section 4.4 and 4.8.	
	PL section 2 and 4	
	Other routine risk minimisation measures beyond the Product Information:	
	Prescription-only medicine	
	Additional risk minimisation measures:	
	None	
Additional pharmacovigilance activities	Routine pharmacovigilance activities beyond adverse reactions reporting and signal detection:	
	Specific adverse event follow-up questionnaire	



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Missing information: Long-term use in paediatric patients, including impact on growth and development (including cognitive development)		
Evidence for linking the risk to the medicine	None since this is missing information	
Risk factors and risk groups	Since this is missing information, no attributable increase due to fingolimod has been established. Therefore, no risk groups or risk factors can be identified.	
Risk minimisation measures	Routine risk minimisation measures	
	SmPC section 4.2, 4.4 and 5.2	
	Routine risk minimisation activities recommending specific clinical measures to address the risk:	
	None	
	Other routine risk minimisation measures beyond the Product Information:	
	Prescription-only medicine	
	Additional risk minimisation measures:	
	Physician's checklist	
	Patient / Parent / Caregiver guide	
Additional pharmacovigilance activities	Routine pharmacovigilance activities beyond adverse reactions reporting and signal detection:	

II.C Post-authorisation development plan

II.C.1 Studies which are conditions of the marketing authorisation

There are no studies which are conditions of the marketing authorisation or specific obligation of Fingolimod beta.

II.C.2 Other studies in post-authorisation development plan

There are no studies required for Fingolimod beta.