



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

EU Risk Management Plan for Melatonin 1mg/mL oral solution (melatonin)

RMP version to be assessed as part of this application:

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Rationale for submitting an updated RMP: Revised indications and name during MA-registration

Summary of significant changes in this RMP: Updated to reflect the current indications and posology

QPPV name: ██████████

QPPV oversight declaration: The content of this RMP has been reviewed and approved by the marketing authorisation applicant's QPPV. The electronic signature is available on file.



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Part II: Module SVI - Additional EU requirements for the safety specification

[REDACTED]

Part II: Module SVII - Identified and potential risks

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

SVII.1.1. Risks not considered important for inclusion in the list of safety concerns in the RMP

[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

■ [REDACTED]

[REDACTED]

■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

[REDACTED]

[REDACTED]

Reason for not including an identified or potential risk in the list of safety concerns in the RMP:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

SVII.1.2. Risks considered important for inclusion in the list of safety concerns in the RMP

Important Identified Risk

[REDACTED]

Important Potential Risk

[REDACTED]

Missing information 1:

[REDACTED]

Missing information 2:

[REDACTED]

SVII.2 New safety concerns and reclassification with a submission of an updated RMP

[REDACTED]

SVII.3 Details of important identified risks, important potential risks, and missing information

SVII.3.1. Presentation of important identified risks and important potential risks

Important Potential Risk: [REDACTED]

Potential mechanisms:

[REDACTED]

[REDACTED]

[REDACTED]

Evidence source(s) and strength of evidence:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Characterisation of the risk:

[REDACTED]

[REDACTED]

[REDACTED]

Risk factors and risk groups:

[REDACTED]

Preventability:

[REDACTED]

Impact on the risk-benefit balance of the product:

[REDACTED]

Public health impact:

[REDACTED]

SVII.3.2. Presentation of the missing information

Missing information 1: [REDACTED]

Evidence source:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Population in need of further characterisation:

████████████████████
Missing information 2: ██████████

Evidence source:

██
██
████████

Part II: Module SVIII - Summary of the safety concerns

Table SVIII.1: Summary of safety concerns

Summary of safety concerns	
Important identified risks	None
Important potential risks	Delay of sexual maturation and development
Missing information	Use in pregnancy and lactation Long-term safety

Part III: Pharmacovigilance Plan (including post-authorisation safety studies)

III.1 Routine pharmacovigilance activities

██
██
██

III.2 Additional pharmacovigilance activities

██
██

III.3 Summary Table of additional Pharmacovigilance activities

████████████████

Part IV: Plans for post-authorisation efficacy studies

████████████████

Part V: Risk minimisation measures (including evaluation of the effectiveness of risk minimisation activities)

Risk Minimisation Plan

V.1. Routine Risk Minimisation Measures

Table Part V.1: Description of routine risk minimisation measures by safety concern

Safety concern	Routine risk minimisation activities
<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>
<p>[REDACTED]</p> <p>[REDACTED]</p>	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>
<p>[REDACTED]</p>	<p>[REDACTED]</p> <p>[REDACTED]</p>

V.2. Additional Risk Minimisation Measures

[REDACTED]

[REDACTED]

V.3 Summary of Risk Minimisation Measures

Table Part V.3: Summary table of pharmacovigilance activities and risk minimisation activities by safety concern

Safety concern	Risk minimisation measures	Pharmacovigilance activities
<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	<p>[REDACTED]</p> <p>[REDACTED]</p>

Safety concern	Risk minimisation measures	Pharmacovigilance activities
	██████████	
██████████ ██████████	████████████████████ ██████████████████ ██████████████████ ██████████████	██████████████████ ██████████
██████████	████████████████████ ██████████████████ ██████████████	██████████████████ ██████████

Part VI: Summary of the risk management plan

Summary of risk management plan for Melatonin 1mg/mL oral solution

This is a summary of the risk management plan (RMP) for Melatonin 1mg/mL oral solution. The RMP details important risks of Melatonin 1mg/mL oral solution, how these risks can be minimised, and how more information will be obtained about Melatonin 1mg/mL oral solution risks and uncertainties (missing information).

Melatonin 1mg/mL oral solution summary of product characteristics (SmPC) and its package leaflet give essential information to healthcare professionals and patients on how Melatonin 1mg/mL oral solution should be used.

I. The medicine and what it is used for

Melatonin 1mg/mL oral solution is authorised for sleep disorders in children and adults (see SmPC for the full indication). It contains melatonin 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 Melatonin 1mg/mL oral solution, together with measures to minimise such risks and the proposed studies for learning more about Melatonin 1mg/mL oral solution 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 Melatonin 1mg/mL oral solution, 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 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 Melatonin 1mg/mL oral solution is not yet available, it is listed under 'missing information' below.

II.A List of important risks and missing information

Important risks of Melatonin 1mg/mL oral solution are risks that need special risk management activities to further investigate or minimise the risk, so that the medicinal product can be safely administered. 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 Melatonin 1mg/mL oral solution. 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	None
Important potential risks	Delay of sexual maturation and development
Missing information	Use in pregnancy and lactation Long-term safety

II.B Summary of important risks

Delay of sexual maturation and development	
Evidence for linking the risk to the medicine	Melatonin delays sexual development in rats in a transient and reversible manner. No evidence for delay in human.
Risk factors and risk groups	Children and adolescents that are between pre-pubertal to pubertal stages.
Risk minimisation measures	Indication in Section 4.2 of SmPC that the patient should be monitored at regular intervals (at least every 6 months) to check that Melatonin 1mg/mL oral solution is still the most appropriate treatment. Inclusion in the package leaflet under section 3: "You or your child should be monitored by your doctor at regular intervals (recommended every 6 months) to check that Melatonin is still the right treatment for you/them."
Additional pharmacovigilance activities	Monitor any relevant post marketing safety reports. Reports describing sexual maturation and development would be specifically followed up.

Missing information: Long term safety	
Evidence for linking the risk to the medicine	Possible long-term effects of melatonin have been inadequately studied.
Risk factors and risk groups	The target population and children that will be treated off-

	label.
Risk minimisation measures	Indication in Section 4.4 of the SmPC that long-term effects have been inadequately studied.

Missing information: Use in pregnancy and lactation	
Evidence for linking the risk to the medicine	For melatonin there are no data from the treatment of pregnant women. Melatonin has been measured in breast milk and thus exogenous melatonin is probably secreted into breast milk.
Risk factors and risk groups	Pregnant and lactating women.
Risk minimisation measures	Routine risk minimisation measures. Indication in Section 4.6 of the SmPC that there is not sufficient data relating to the use of Melatonin 1mg/mL oral solution during breastfeeding and pregnancy. Inclusion of warning in the package leaflet.

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 Melatonin 1mg/mL oral solution.

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

There are no studies required for Melatonin 1mg/mL oral solution.

