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Swiss Summary of the Risk Management Plan (RMP) for Aranesp® (darbepoetin alfa)

RMP Summary: Version 1, March 2024 EU RMP: Version 9.7, 21. March 2022

The Risk Management Plan (RMP) is a comprehensive document submitted as part of the application dossier for market approval of a medicine. The RMP summary contains information on the medicine's safety profile and explains the measures that are taken in order to further investigate and follow the risks as well as to prevent or minimize them. The RMP summary of Aranesp® is a concise document and does not claim to be exhaustive.

As the RMP is an international document, the summary might differ from the "Arzneimittelinformation / Information sur le médicament" approved and published in Switzerland, e.g. by mentioning risks occurring in populations or indications not included in the Swiss authorization.

Please note that the reference document which is valid and relevant for the effective and safe use of Aranesp® in Switzerland is the "Arzneimittelinformation/ Information sur le médicament" (see www.swissmedic.ch) approved and authorized by Swissmedic.

AMGEN Switzerland AG is fully responsible for the accuracy and correctness of the content of the published summary RMP of Aranesp®.

#### The medicine and what it is used for

Aranesp is authorized for the treatment of symptomatic anemia associated with chronic kidney failure (renal failure) in adults and pediatric patients from 1 year of age (nephrology indication) and treatment of symptomatic anemia in adult cancer patients with non-bone marrow cancers (non-myeloid malignancies) receiving chemotherapy (oncology indication) and for the treatment of anaemia in adult patients with low transfusion requirements in myelodysplastic syndromes of the low or intermediate-1 risk groups and low endogenous erythropoietin levels (see SmPC for the full indication).

It contains darbepoetin alfa as the active substance and it is given by injection either into a vein (intravenous) or under the skin (subcutaneous). Further information about the evaluation of Aranesp's benefits can be found in Aranesp's EPAR, including in its plain-language summary, available on the European Medicines Agency (EMA) website, under the medicine's webpage: https://www.ema.europa.eu/medicines/human/EPAR/Aranesp.

# Risks associated with the medicine and activities to minimize or further characterize the risks

Important risks of Aranesp together with measures to minimize such risks and the proposed studies for learning more about Aranesp's risks, are outlined below

Measures to minimize 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 authorized 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 public (eg, with or without prescription) can help to minimizes its risks.

Together, these measures constitute routine risk minimization measures.

In the case of Aranesp, these measures are supplemented with additional risk minimization measures mentioned under relevant important risks, below.

In addition to these measures, information about adverse reactions is collected continuously and regularly analyzed including periodic safety update report (PSUR) assessment so that immediate action can be taken as necessary. These measures constitute routine pharmacovigilance activities.

## **List of Important Risks and Missing Information**

Important risks of Aranesp are risks that need special risk management activities to further investigate or minimize 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 Aranesp. 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 (eg, on the long-term use of the medicine).

List of important risks and missing information		
Important identified risks	<ul> <li>Antibody-mediated pure red cell aplasia (nephrology indication only)</li> </ul>	
Important potential risks	<ul> <li>Mortality and/or tumor progression or recurrence in patients with cancer or a history of cancer</li> </ul>	
	<ul> <li>Antibody-mediated pure red cell aplasia (oncology indication only)</li> <li>Incorrect use of the pre-filled pen device associated with adverse reactions, including underdose and drug dose omission</li> </ul>	
Missing information	• None	

## **Summary of Important Risks**

Important identified risk: Antibody-mediated pure red cell aplasia (development of antibodies to the hormone that stimulates the production of red blood cells, which causes the body to stop the production of red blood cells) (nephrology indication only)		
Evidence for linking the risk to the medicine	This risk was identified in the postmarketing setting. Most cases of pure red cell aplasia were reported for patients with chronic kidney disease.  Antibody-mediated pure red cell aplasia is considered an important identified risk in the nephrology indication and an important potential risk in the oncology indication since only a small number of cases have been identified in cancer patients.	
Risk factors and risk groups	Pure red cell aplasia, in association with antibodies to the hormone that stimulates the production of red blood cells, has been observed in patients treated with medicines that stimulate the production of red blood cells in the body (erythropoiesis-stimulating agents), including darbepoetin alfa. Pure red cell aplasia has been reported predominantly in patients with chronic kidney disease and in patients with hepatitis C treated with interferon and ribavirin. Most cases have been associated with under-the-skin administration of medicines that stimulate the production of red blood cells in the body (erythropoiesis-stimulating agents).  No other risk factor has been identified with darbepoetin alfa.	
Risk minimization measures	Routine risk minimization measures: • SmPC Section 4.4 where advice regarding bone marrow	

examination and action regarding Aranesp is provided SmPC Section 4.8 PL Section 2 PL Section 4 Additional risk minimization measures: None Additional Additional pharmacovigilance activities: pharmacovigilance · Antibody testing activities See relevant Section of this summary for an overview of the postauthorization development plan Important potential risk: Mortality (death) and/or tumor progression or recurrence in patients with cancer or a history of cancer Evidence for linking the This potential risk was identified in the clinical trial setting. Increased risk to the medicine death or adverse cancer outcomes were observed with medicines that stimulate the production of red blood cells in the body (erythropoiesisstimulating agents) in 8 clinical studies conducted in subjects with cancer. In the nephrology indication, the potential risk of death in subjects with a history of malignancy was identified based on a posthoc subgroup analysis of a randomized, double-blind, placebocontrolled study called the Trial to Reduce Cardiovascular (heart and blood vessel) Events with Aranesp® Therapy (TREAT). Risk factors and risk There are no data available describing risk factors for death among patients with chronic renal failure who have a history of cancer and are groups receiving medicines that stimulate the production of red blood cells in the body (erythropoiesis-stimulating agent therapy). In patients with cancer, adverse tumor outcomes and death are closely linked with tumor characteristics including tumor type, stage, responsiveness to therapy, and where the cancer has spread, and patient factors including age, nutritional status, comorbidity, and weakness of the body's immune system (immune suppression). Risk minimization Routine risk minimization measures: measures • SmPC Section 4.4 • SmPC Section 5.1 SmPC Section 5.3 • PL Section 2 • PL Section 4 Additional risk minimization measures: None Additional Additional pharmacovigilance activities: pharmacovigilance • Observational Study 20190404 activities See relevant Section of this summary for an overview of the postauthorization development plan Important potential risk: Antibody-mediated pure red cell aplasia (development of antibodies to the hormone that stimulates the production of red blood cells, which causes the body to stop the production of red blood cells) (oncology indication only)

Evidence for linking the	This potential risk was identified in the postmarketing setting. Most	
risk to the medicine		
risk to the medicine	cases of pure red cell aplasia were reported for patients with chronic	
	kidney disease. Antibody-mediated pure red cell aplasia is considered	
	an important identified risk in the nephrology indication and an	
	important potential risk in the oncology indication since only a small	
	number of cases have been identified in cancer patients.	
Risk factors and risk	Pure red cell aplasia, in association with antibodies to the hormone tha	
groups	stimulates the production of red blood cells, has been observed in	
	patients treated with medicines that stimulate the production of red	
	blood cells in the body (erythropoiesis-stimulating agents), including	
	darbepoetin alfa. Pure red cell aplasia has been reported	
	predominantly in patients with chronic kidney disease and in patients	
	with hepatitis C treated with interferon and ribavirin. Most cases have	
	been associated with under-the-skin administration of medicines that	
	stimulate the production of red blood cells in the body (erythropoiesis-	
	stimulating agents).	
	No other risk factor has been identified with darbepoetin alfa.	
Risk minimization	Routine risk minimization measures:	
measures	SmPC Section 4.4 where recommendation for bone marrow	
lileasules		
	examination is provided  • PL Section 2	
	Additional risk minimization measures:	
	• None	
Additional	Additional pharmacovigilance activities:	
pharmacovigilance	Antibody testing	
activities	See relevant Section of this summary for an overview of the	
	postauthorization development plan	

Important potential risk: Incorrect use of the pre-filled pen device associated with adverse reactions, including underdose and drug dose omission

Evidence for linking the This important potential risk was identified in the postmarketing setting

risk to the medicine	following several reports of complaints related to the difficulties in use	
	of the Aranesp injection medical devices.	
Risk factors and risk	Patients in the postmarketing setting receiving treatment with	
groups	darbepoetin alfa using the pre-filled pen (doses: 10, 15, 20, 30, 40, 50,	
	60, 80, 100, 130, 150, 300, and 500 mg solution for injection).	
Risk minimization	Routine risk minimization measures:	
measures	<ul> <li>SmPC Section 4.2 where detailed instructions for use of pre-</li> </ul>	
	filled pen are provided	
	<ul> <li>SmPC Section 4.8</li> </ul>	
	• SmPC Section 6.4	
	<ul> <li>SmPC Section 6.6</li> </ul>	
	<ul> <li>PL Section 3 where detailed instructions for use of pre-filled</li> </ul>	
	pen are provided	
	• PL Section 4	
	• PL Section 5	
	<ul> <li>PL Section 7 where detailed instructions for use of pre-filled</li> </ul>	
	pen are provided	
	Additional risk minimization measures:	
	<ul> <li>Demonstration device, training checklist, and poster-size</li> </ul>	
	instructions for use (IFU) for Aranesp SureClick® (pre-filled pen)	
	self-administration	

## Post-authorisation development plan

## Studies which are a condition of the marketing Authorization

There are no studies which are conditions of the marketing authorization or specific obligation of Aranesp.

## Other studies in Postauthorization Development Plan

Study Short Name	Purpose of the Study
Study Snort Name Study 20190404 A retrospective cohort study to assess the use of erythropoiesis-stimulating agents in patients with nonmyeloid malignancies receiving	To characterize the use of erythropoiesis-stimulating agents in cancer patients undergoing myelosuppressive chemotherapy in European clinical practice Safety concerns addressed: Mortality and/or tumor progression or recurrence in patients with cancer or a history of cancer
myelosuppressive chemotherapy in Europe	

## Summary of Changes to the Risk Management Plan Over Time

EU Version	Date of RMP Approval Date Procedure	Change
9.7	Date of RMP: 21 March 2022	First version requested by Swiss Health Authority

This summary was generated in March 2024