VI.2 Elements for a public summary

VI.2.1 Overview of disease epidemiology

Chronic lymphocytic leukaemia:

Chronic lymphocytic leukemia (CLL) is a cancer of a type of white blood cells called lymphocytes and it is the most common cancerin the Western world. It is estimated that4.2 new cases per 100 000 people are reported each year. More than 30 new cases per 100 000 people are reported each year. The median age at diagnosis is 72 years. About 10% of CLL patients are reported to be younger than 55 years.

Whereas CLL is the most frequent form of leukaemia in Western countries, where it accounts for 30% of all leukaemias, it only constitutes 10% of all leukaemias in Asian populations. In most series, CLL is more frequent in males than in females. The cause of CLL is unknown. About one-half of people diagnosed in the early stages of CLL live more than 12 years.

Indolent non-Hodgkin's lymphoma:

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Non-Hodgkin lymphoma (NHL) is cancer of the lymph tissue and is the tenth most common cancer worldwide. An estimated356,000 new cases diagnosed in 2008 (3% of the total). Incidence of NHL varies worldwide, with the highest rates beingreported in the most economically developed regions of the world (e.g. Northern America,Australia/New Zealand, and Northern Europe) and the lowest rates in the least developed regions(e.g. South-Central and Eastern Asia, and the Caribbean). NHL is the fifth most common cancer in the UK (2009), accounting for 4% of all new cases. It is fifth most common cancer among men (2009) in the UK and the seventh most commoncancer among women (2009). In most people cause is unknown however it may develop in people with weakened immune systems like in people with organ transplant and HIV infection.

Multiple myeloma (Durie-Salmon stage II with progress or stage III):

In Europe is 6.0 new cases are reported per 100 000 people each year with a common age of diagnosis between 63 and 70 years; 4.1 cases are reported to be fatal per 100 000 people each year.

Multiple myelomas are a less frequent cancer site among both sexes. On a worldwide scale, it is estimated that about 86,000 incident cases occur annually (47,000 males and 39,000 females), accounting for about 0.8% of all new cancer cases. About 63,000 subjects are reported to die from the disease each year (33,000 males and 30,000 females), accounting for 0.9% of all cancer deaths.

Geographically, the industrialized regions of Australia/New Zealand, Europe, and North America have the highest number of new cases. It is estimated that within the population of the USA there is an almost doubled occurrence of multiple myeloma among the blacks compared to the whites, while people of Asian origin, especially Chinese and Japanese, experience a much lower incidence.

Risk Management Plan

VI.2.2 Summary of treatment benefits

Accord has not conducted any studies for bendamustine on expected benefit considering the similarities to the currently marketed product (Ribomustin[®] Pulver zur Herstellung einer Infusionslösung / Levact Powder for Concentrate for Solution for Infusion 2.5 mg/ml, Astellas Pharma Gmbh). Accord's Bendamustine is expected to be beneficial for:

When used alone (monotherapy) or incombination with other medicines for thetreatment of the following forms of cancer:

- chronic lymphocytic leukaemia incases where fludarabine combination chemotherapy is not appropriate,

- non-Hodgkin's lymphomas, which had not, or only shortly, responded to prior rituximab treatment,

— Multiple myeloma in cases where high dose chemotherapy with autologous stem cell transplantation, thalidomide or bortezomib containing therapy is not appropriate

VI.2.3 Unknowns relating to treatment benefits

Data on exposure of bendamustinein paediatric patients, patients with impaired renal or hepatic function is not available.

VI.2.4 Summary of safety concerns

Important identified risks

Risk	What is known	Preventability
Myelosuppression (severely	Patients treated with	The doctor or pharmacist
disturbed bone marrow	bendamustine hydrochloride	should be informed if the
function)	may experience	patient is taking or has
	myelosuppression.	recently taken other

Risk	What is known	Preventability
	Bendamustine for Infusion	medicines, including
	when used in combination	medicines obtained without a
	with medicines which inhibit	prescription.
	the formation of blood in the	Bendamustine infusion should
	bone marrow, the effect on the	not be used in case of severely
	bone marrow may be	disturbed bone marrow
	intensified.	function (bone marrow
		depression) and serious
		changes in your number of
		white blood cells and platelets
		in the blood (white blood cells
		and/or thrombocyte values
		drop to $< 3,000/\mu l$ or
		$< 75,000/\mu$ l, respectively.).
		Special care should be taken
		with bendamustine for
		infusion in case of reduced
		capability of the bone marrow
		to replace blood cells. The
		number of white blood cells
		and platelets in the blood
		should be checked before
		starting treatment with
		bendamustine for infusion,
		before each subsequent course
		of treatment and in the
		intervals between courses of

Risk		What is known	Preventability
			treatment.
Infection pneumonia and sep:	(including sis)	Possiblesideeffects:Suppressedbonemarrowfunction increases the risk ofinfection.Very common: InfectionsRare:Infection of the blood(sepsis)Very rare:Primary atypicalinflammationof the lungs(pneumonia)	Special care should be taken in case of infections when using with bendamustine for infusion. Doctor should be informed if there are any signs of infection, including fever or lung symptoms.
Tumor lysis syndro	me	Special care with taking bendamustine for infusion should be taken in case of any pain in side, blood in urine or reduced amount of urine. When the disease is very severe, body may not be able to clear all the waste products from the dying cancer cells. This is called tumour lysis syndrome and can cause kidney failure and heart problems within 48 hours of the first dose of bendamustine	Inform the doctor in case of any pain in side, blood in urine or reduced amount of urine. The doctor may give other medicines to help prevent it.

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Risk	What is known	Preventability
	for infusion.	
Anaphylaxis (allergic hypersensitivity reactions)	Possible side effects: Rare:Severeallergichypersensitivityreactions(anaphylactic reactions)Signs similar to anaphylacticreactions(anaphylactoidreactions)Bendamustine should not beusedincaseofhypersensitivity(allergic)theactivesubstancebendamustine hydrochloride orany of the other ingredients ofbendamustine for infusion.	Inform the doctor in case of previous history of any allergic reaction to bendamustine or similar compound.
Extravasation (unintentional injection into the tissue outside blood vessels)	Possible side effects: Tissue changes (necrosis) have been observed very rarely following unintentional injection into the tissue outside blood vessels (extravascular). A burning sensation where the infusion needle is inserted may be a sign for administration outside the blood vessels. The consequence of administration	the tissue outside blood

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Risk	What is known	Preventability
	in this way can be pain and	corticosteroids are not of clear
	poorly healing skin defects.	benefit.
Cardiac disorders	Abnormality of heartbeat (palpitations), chest pain	1
	(angina pectoris), disturbed	infusion in cases of existing
	heart rhythms (arrhythmia) has	heart disease (e.g. heart
	been reported commonly.	attack, chest pain, severely
	Accumulation of fluid in the	disturbed heart rhythms).
	heart sac (Pericardial effusion)	
	has been reported	
	uncommonly.	
	Increased heart rate	
	(tachycardia), Heart attack	
	(myocardial infarct), and heart	
	failure (cardiac failure) has	
	been rarely reported	
Severe skin reactions	Alopecia and other skin	Patient should take special
	disorders are reported	care in case of reactions on
	commonly.	skin during treatment with
	Reddening of the skin	bendamustine for Infusion.
	(erythema), inflammation of	The reactions may increase in
	the skin (dermatitis), Itching	severity.
	(pruritus), skin rash (macular-	
	papular rash) and excessive	
	sweating (hyperhidrosis) were	
	rarely reported	

Risk	What is known	Preventability
Hepatic failure	Possible side effects: Common: A rise in liver enzymes AST (Aspartate transaminase)/ALT(Alanine transaminase) affecting liver function Not Known (frequency cannot be estimated from the available data):Liver failure	Inform the doctor in case of previous liver impairment to bendamustine or similar compound.Patient should take special care of liver during treatment with bendamustine for Infusion.
Drug interaction with immunosuppressive or myelosuppressive agents	Combination of Bendamustine with cyclosporine or tacrolimus may result in excessive immunosuppression with risk of lymphoproliferation When Bendamustine is combined with myelosuppressive agents, the effect of Bendamustine and/or the co administered medicinal products on the bone marrow may be potentiated.	Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicineswhich alter you immuneresponse.
Nausea and vomiting	The most common adverse reactions with bendamustine hydrochloride is	An antiemetic may be given for the symptomatic treatment of nausea and vomiting.
	gastrointestinal symptoms	Inform the doctor in case of

Risk	What is known	Preventability
	(nausea, vomiting). Possible side effects: Very common: Feeling sick (nausea) and vomiting.	previous nausea and vomiting to bendamustine or similar compound.

Important potential risks

Risk	What is known	
Secondary tumours (including	Possible side effects: There have been reports of secondary	
myelodysplastic syndrome,	tumours (myelodysplastic syndrome, AML, bronchial	
myeloproliferative disorders,	carcinoma) following treatment with Bendamustine for	
acute myeloid leukaemia and	Infusion. No clear relationship with Bendamustine for Infusion	
bronchial carcinoma)	could be determined.	
Kidney toxicity (Renal toxicity)	The doctor must be informed in case the patient notices any pain in side, blood in urine or reduced amount of urine. When the disease is very severe, body may not be able to clear all the waste products from the dying cancer cells. This is called tumour lysis syndrome and can cause kidney failure within 48 hours of the first dose of Bendamustine for Infusion. The doctor may give other medicines to help prevent it.	
An agent that can disturb the	Bendamustine hydrochloride is teratogenic and mutagenic.	
development of the embryo or	Women should not become pregnant during treatment. Male	
fetus and an agent cause	patients should not father a child during and up to 6 months	
cancerous effect (Teratogenic	after treatment. They should seek advice about sperm	
and mutagenic effects)	conservation prior to treatment with bendamustine	

Risk	What is known	
	hydrochloride because of possible irreversible infertility.	
	There are insufficient data from the use of Bendamustine in pregnant women. In nonclinical studies bendamustine hydrochloride was embryo-/fetolethal, teratogenic and genotoxic.	
	Animal studies showed that bendamustine is embryotoxic and teratogenic.	
	Bendamustine induces aberrations of the chromosomes and is mutagenic in vivo as well as in vitro. In long-term studies in female mice bendamustine is carcinogenic.	

Missing information

Risk	What is known
Limited information on the use in paediatric population	There is no experience in children and adolescents with bendamustine.
Limited information on the usein patients with severe liver impairment	Do not use bendamustine in case of severe liver dysfunction (damage to the functional cells of the liver).
Limited information on the use in patients with severe kidney impairment	Experience in patients with severe kidneyimpairment is limited.
Limited information on the use in different races	None proposed

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Risk	What is known
use in pregnant and breastfeeding women	Pregnancy: Bendamustine can cause genetic damage and has caused malformations in animal studies. Bendamustine should not be used during pregnancy unless certainly indicated by doctor. In case of treatment medical consultation about the risk of potential adverse effects of the therapy for the unborn child and genetic consultation is recommended. A woman of childbearing age must use an effective method of contraception both before and during treatment with bendamustine. If pregnancy occurs during treatment with bendamustine the doctor must be immediately informed and genetic consultation be done. Avoid fathering a child during treatment with bendamustine for Infusion and for up to 6 months after treatment has stopped. There is a risk that treatment with Bendamustine will lead to infertility. Advice on conservation of sperm before treatment starts can be seeked. Bendamustine must not be administered during breast feeding. If treatment with bendamustine is necessary during lactation, breast-feeding must be discontinued.

VI.2.5 Summary of risk minimisation measures by safety concern

All medicines have a Summary of Product Characteristics (SmPC) which provides physicians, pharmacists and other health care professionals with details on how to use the medicine, the risks and recommendations for minimizing them. An abbreviated version of this in lay language is provided in the form of the package leaflet (PL). The measures in these documents are known as routine risk minimisation measures.

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This medicine has special conditions and restrictions for its safe and effective use (additional risk minimisation measures). Full details on these conditions can be found in Annex 10 and 11 of this RMP; how they are implemented in each country however will depend upon agreement between the MAH and the national authorities. This additional risk minimisation measures is forfatal opportunisticinfection.

DHPC (Direct Healthcare Professional Communications)

Objective and Rationale:

The key aim of direct healthcare professional communications based on increased mortality observed in recent clinical studies when Levact® (bendamustine) was used in non-approved combination treatments or outside the approved indications. Fatal toxicities were mainly due to (opportunistic) infections, but also some fatal cardiac, neurological, and respiratory toxicities were reported.

Propose Action:

Each National agency will be contacted for local requirements on the circulation and local agency advice will be followed for distribution.

VI.2.6 Planned post authorisation development plan

No studies planned.

VI.2.7 Summary of changes to the risk management plan over time

Version	Date	Safety Concern	Comment
2.0	16-September-2013	Following safety concerns are	-
		added:	

		Important identified risk:	
		MyelosuppressionInfections	
		• Tumor lysis syndrome	
		• Anaphylaxis	
		• Extravasation	
		Important potential risk:	
		Secondary malignancies	
3.0	20-January-2014	Following safety concerns are added:	
		Important identified risk:	
		Cardiac disorders	
		• Severe skin reactions	
		• Hepatic failure	
		Risk of "Pregnancy and	
		lactation" as missing information	
		is migrated as important potential	
		risk as "Pregnancy (teratogenic	
		and genotoxic effect in non-	
		clinical studies) and lactation".	
		"Important missing information"	
		is changed as "missing	
		information"	

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		In the RMP Part V "Risk minimisation measures", information from SmPC was included for the missing information "Paediatric population", "Patients with severe hepatic impairment" and "Patients with severe renal impairment".	
4.0	27-May-2014	Following safety concern is added: Important potential risk: Renal toxicity	-
5.0	12-October-2015	 An additional safety concern "Effect on different races" has been added to Missing information. Previously considered Important potential risk "Pregnancy (teratogenic and genotoxic effect in non- clinical studies) and lactation" has been moved to missing information as "Use in pregnant and breastfeeding women". 	The RMP has been revised as per CMS Day- 50 and Day-55 assessment reports.

6.0	14 June 2017	Following safety concernswere	The RMP has been
		added in this RMP.	updated as per
		Important identified risks:	Preliminary Variation
		Drug interaction with	Assessment Report of
			bendamustine
		immunosuppressive or myelosuppressive agents	(AT/H/0497/001/II/007-
		 Nausea and vomiting 	Type II variation)), dated
			11 Sep 2016.
		Important potential risk:	DHCP letter (published
		• Teratogenic and	by Astellas for Levact [®])
		mutagenic effects	has been added as
			suggested by AEMPS and
			ANSM national health
			authority.
			authority.