For the use only of a Registered Medical Practitioner or a Hospital or a Laboratory

This package insert is continually updated. Please read carefully before using a new pack.

Fludarabine Phosphate Powder for Solution for Injection

FLUDARA®

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NAME OF THE MEDICINAL PRODUCT

Fludara 50 mp powder for solution for injection/infusion

COMPOSITION

Active ingredient: Each vial contains 50 mg fludarabine phosphate I.P. 1 ml of reconstituted solution for injection/infusion contains 25 mg fludarabine phosphate.

Excipients: Mannitol, Sodium Indroxide (to adjust the pH to 7.7).

INDICATIONS

Fludara is indicated for the treatment of patients with B -cell chronic lymphocytic leukemia (CLL) who have not responded to at least one standard alkylating-agent containing regimen.

DOSAGE AND METHOD OF ADMINISTRATION

Method of administration

Fludara must be administered only intravenously. No cases have been reported in which paravenously administered Fludara led to severe local adverse reactions. However, unintentional paravenous administration must be avoided.

Dosage regimen

Adults

Fludara solution for injection/infusion should be administered under the supervision of a qualified physician experienced in

The recommended dose is 25 mg fludarabine phosphate/m² body surface given daily for 5 consecutive days every 28 days by the intravenous route. Each vial is to be made up in 2 ml water for injection. Each ml of the resulting solution for injection/infusion will contain 25 mg fludarabine phosphate (see section 'Instructions for use/handling').

The required dose (calculated on the basis of the patient's body surface) is drawn up into a syringe. For intravenous to injection, this dose is further diluted into 10 ml of Q9 % sodium chloride. Alternatively, for infusion, the required dose drawn up in a syringe may be diluted into 100 ml 0.9 % sodium chloride and infused over approximately 30 minutes.

The duration of treatment depends on the treatment success and the tolerability of the drug.

In CLL patients, Fludara should be administered up to the achievement of best response (complete or partial remission, usually 6 cycles) and then the drug should be discontinued.

In patients with Lg-NHL, treatment with Fludara is recommended up to the achievement of best response (complete or partial remission). Two cycles of consolidation should be considered after best response has been reached, in clinical trials with Lg-NHL, the majority of patients underwent not more than 8 cycles.

SPECIAL POPULATIONS

Children and adolescents Fludara is not recommended for the use in children below age 18 due to a lack of data on safety and efficacy.

Since there are limited data for the use of Fludara in elderly persons (> 75 years), caution should be exercised with the administration of Fludara in these patients (see section 'Special warnings and precautions for use').

Patients with renal impairment

Doses should be adjusted for patients with reduced kidney function. If creatinine clearance is between 30 and 70 mt/min, the close should be reduced by up to 50 % and close hematological monitoring should be used to assess toxicity. For further information see section. Special warnings and precautions for use?

Fludara treatment is contraindicated if creatinine clearance is < 30 ml/r

Patients with hepatic impairment
The safety and efficacy have not been studied in patients with hepatic impairment

CONTRAINDICATIONS

- Hypersensitivity to the active substance or to any of the excipients
 Renal impairment with creatinine clearance < 30 ml/min
 Decompensated hemolytic anemia

SPECIAL WARNINGS AND PRECAUTIONS FOR USE

Weurotaxicity

When used at high doses in dose-ranging studies in patients with audit elukemia, fluidars was associated with severe neurologic effects, including bindness, coma and death. Symptoms appeared from 21 to 60 days from last dose. This severe central nervous system toxicity occurred in 28° Vol patients treated ethosenously with doses approximately four three greater (96 mg/m//day for 5.7 days) than the recommended dose. In patients feeted at doses in the range of the dose ecommended for chronic lymphocytic bulkemia and LyTML, severe central nervous system toxicity occurred rarely (coma, satures and agitation) or uncommenty (contaison) (see section Universitable effects).

In postmarketing experience neurotoxicity has been reported to occur earlier or later than in clinical trials.

The effect of chronic administration of Fludara on the central nervous system is unknown. However, patients tolerated the recommended dose in some studies for relatively long treatment times (for up to 26 courses of therapy). Patients should be closely observed for signs of neurologic effects.

Administration of Fludara can be associated with leukoencephalopathy (LE), acute toxic leukoencephalopathy (ATL) or reversible posterior leukoencephalopathy syndrome (RPLS).

- at the recommended dose
 viene Fluddra is given following, or in combination with, medications known to be associated with LE,
 or when Fluddra is given in patients with other risk factors such as cranial or total body irradiation, He
 Transplantation, Graft versus Host Disease, renal impairment, or hepatic encephalopathy.
- · at doses higher than the recommended dose

LE, ATL or RPLS symptoms may include headache, nausea and vomiting, seizures, visual disturbances such as vision loss, altered sensorium, and local neurological deficits. Additional effects may include optic neurilis, and papilitis, confusion, somodence, agaition, paragraesity quadrigeness, muscle spassiothy and incontinence. LE/ ATL/ RPLS may be irreversible, like-threatening, or fatal.

Whenever LE, ATL or RPLS is suspected, fludarabine treatment should be stopped. Patients should be monitored and should undergo brain imaging, preferably utilizing MRL If the diagnosis is confirmed, fludarabine therapy should be nermanenthy discontinued.

Impaired state of health

impaired state of neatm. In patients with impaired state of health, Rudars should be given with caution and after careful risk/benefit consideration. This applies especially for galariest with severe impairment of bore marrow function (thrombocytopenia, aremina, and/or granufocytopenia), immunodeficiency or with a history of opportunistic infection. Populyacido testiment should be considered in patients at increased risk of developing opportunistic infections (see section 'Undesirable effects').

Myelosuppression

neversitypression. Screec both emainway suppression, notably anemia, thrombocytopenia and neutropenia, has been reported in patients treated with Fludera, in a Phase Isady in adult sold humor patients, the median fine to madir counts was 10 days (range 2-25 days) or panillocytes and Isady range 2-25 days) for patients had have mantalogic impariment at baseline either are a result of disease or as a result of prior myolosoppressive therapy. Cumulative myolosoppressive many to the properties of the properties of fluderabine phosphate requires careful havenablogic monitoring.

Several instances of trilineage bone marrow hypoplasia or aplasia resulting in pancytopenia, sometimes resulting in death, have been reported in adult patients. The duration of clinically significant cytopenia in the reported cases has range from approximately. Fromitis to approximately a report of the previous deviation of clinical significant cytopenia in the reported cases have been approximately. The committee of the report of t patients.

Disease progression
Disease progression and transformation (e.g. Richter's Syndrome) have been commonly reported in CLL patients.

Translation-associated graft-versus-host disease (resolve) by the translated immunocompetent imphocytes to the host) has been observed after translation of norm included blood in Rudura treated patients. Fatal outcome as a consequence of this disease has been reported with a high frequency. Therefore, to minimize the risk of translation-associated graft-ensus-host disease, patients whe require blood translation and who are undergoing, or who have received treatment with Fudaria should receive irradiated blood only.

The worsening or flare up of preexisting skin cancer lesions as well as new onset of skin cancer has been reported in patients during or after Fludara therapy.

Tumor lysis syndrome

has been reported in patients with large tumor burdens. Since Fludara can induce a response as early as the first week of treatment, precaution should be taken in those patients at risk of developing this complication

Autonimium principiems in interpretate and interpretate and interpretate of a status, lifethreatening and sometimes fait autoimmune phenomena (see section 'Undesirable effects') have been reported to occur during or after freatment with Fludara. The majority of patients experiencing hemotytic anemia developed a recurrence in the hemotytic process after

Patients treated with Fludara should be closely monitored for signs of hemolysis.

Discontinuation of therapy with Fludara is recommended in case of hemolysis.

There are limited clinical data available in patients with impairment of renal function (creatinine clearance < 70 ml/min).

Fludara must be administered caudiously in patients with renal insufficiency. In patients with moderate impairment of renal function (creatinine clearance between 30 and 70 m/min), the close should be reduced by up to 50 % and the patient should be monitored closely (see section 'Dosage and method of administration'). Fludara treatment is contraindicated if creatinine clearance is < 30 m/min.

Geriatric patients
Since there are limited data for the use of Fludara in elderly persons (> 75 years), caution should be exercised with the administration of Fludara in these patients.

In patients aged 65 years or older, creatinine clearance should be measured before start of treatment, see 'Renal impairment' and section 'Dosage and method of administration'.

Pregnancy
Fludara should not be used during pregnancy unless clearly necessary (e.g. life threatening situation, no alternative safer treatment available without compromising the therapeutic benefit, treatment cannot be avoided, it has the potential of the property of t cause letal harm (see sections 'Pregnancy and lactation' and 'Preclinical safety data'). Prescribers may only consider it to be used, if the potential benefits justify the potential risks to the fetus.

Women should avoid becoming pregnant while on Fludara therapy

Women of childbearing potential must be apprised of the potential hazard to the fetus (see sections 'Pregnancy and lactation'and'Preclinical safety data')

Contraception

Women of childbearing potential or fertile males must take effective contraceptive measures during and at least for 6 months after cessation of therapy (see section 'Pregnancy and lactation').

Lactation
Breastleeding should not be initiated during Fludara treatment. Nursing women should discontinue breastleeding.

Retreatment options after initial Fludara treatment.

Patients who primarly respond to Fludara have a good chance of responding again to Fludara monotherapy, A crossiver from initial restarted with Fludara to channello for non-responders to Fludara should be avoided because most patients who have been resistant to Fludara have shown resistance to chlorambuot.

INTERACTIONS

In a clinical investigation, using Fludara in combination with periostatin (deoxycoformycin) for the treatment of CLL, there was an unacceptably high incidence of fatal pulmonary toxicity. Therefore, the use of Fludara in combination with perioristatin is not recommended.

Dipyridamole and other inhibitors of adenosine uptake may reduce the therapeutic efficacy of Fludara,

Clinical studies and in vitro experiments showed that using Fludara in combination with cytarabine may increase the intracellular concentration and intracellular exposure of Narc-TDP (active metabolite or cytarabine) in leukemic cells. Plasma concentrations of An-DC and the elimination rate of Narc-Over ent of effected.

PREGNANCY

The results from intravenous embryotoxicity studies in rats and rabbits indicated an entryrolethal and tenatogenic potential at the therapeutic closes. Prectinical data in rats demonstrated a transfer of Fludara and/or metabolites through the toto-placental barrior (see section 'Preclinical safety data').

There are very limited data of Fludara use in pregnant women in the first trimester. One meetion has been described with absent billuteral radii and normal flumbs, thrombocytopenia, fossa oxidis aneurysm and a small patient locks arteriosus. Early pregnancy loss has been reported in Fludara monotherapy as well as in combination therapy. Premature delivery has been reported.

Rudars should not be used during pregnancy unless clearly necessary (e.g., life threatening situation, no alternative safer treatment available without compromising the therapeutic benefit, treatment cannot be avoided). It has the potential to cause feel harm, Pescribers nay not consider to be used, if the potential benefits justify the potential risks to the febus,

Women of childbearing potential must be apprised of the potential hazard to the fetus.

Women of childbearing potential must take effective contraceptive measures during and at least for 6 months after cessation of therapy. (see also sections 'Special warnings and precautions for use and 'Preclinical safety data')

LACTATION

It is not known whether this drug is excreted in human milk. However, there is evidence from preclinical data that fludarabine phosphate and/or metabolites transfer from maternal blood to milk.

Therefore, breastfeeding should not be initiated during Flurdara treatment, Nursing women should discontinue breastfeeding. (see also section 'Special warnings and precautions for use')

EFFECTS ON ABILITY TO DRIVE OR USE MACHINES

Fludara may reduce the ability to drive or use machines, since e.g. fatigue, weakness, visual disturbances, confusion, agitation and seizures have been observed.

UNDESIRABLE EFFECTS

Serious opportunistic infections have occurred in patients treated with Fludara. Fatalities as a consequence of serious adverse events have been reported.

The table below reports adverse events by MedDRA system organ classes (MedDRA SOCs). The frequencies are based on clinical trial data regardless of the causal relationship with Fludara. The rare adverse events were mainly identified from

Table 1: Adverse events reported in clinical trials or during post-marketing surveillance in patients treated with Fludara

System	Very Common	Common	Uncommon	Rare ≥ 1/10,000 to
Organ	≥1/10	≥ 1/100 to <1/10	≥ 1/1000 to <1/100	<1/1000
Class				
MedDRA				
Infections and	Infections /			Lympho-proliferative
infestations	Opportunistic			disorder
	infections (like latent			(EBV-associated)
	viral reactivation,			
	e.g. Herpes zoster			
	virus			
	Epstein-Barr-virus,			
	Progressive multifocal			
	leucoencephalopathy),			
	Pneumonia			
Neoplasms		Myelodysplastic		
benign,		syndrome and Acute		
malignant		myeloid		
and unspecified		leukaemia (mainly		
(incl cysts and		associated with		
polyps)		prior, concomitant or		
		subsequent treatment		
		with alkylating agents,		
		topoisomerase		
		inhibitors or irradiation)		
Blood and	Neutropenia,	Myelosuppression		
lymphatic	Anemia,			
system	Thrombocytopenia			
disorders Immune system			Autoimmune disorder	
disorders			tincluding	
aisoraers			Autoimmune	
			hemolytic anemia,	
			Thrombocytopenic	
			purpura, Pemphigus.	
			Evans syndrome.	
			Acquired hemophilia)	
Metabolism		Anorexia	Tumor lysis	
and nutrition		Alkironia	syndrome	
disorders			(including	
uisulders	1		Renal failure.	
	1		Hyperkalemia.	
			Metabolic acidosis.	
	1		Hematuria.	
			Urate crystalluria,	
	1		Hyperuricemia,	
			Hyperphosphatemia,	
			Hypocalcemia)	
Nervous system		Neuropathy	Confusion	Agitation,
disorders		peripheral	COITESION	Seizures.
4.00.40.3	I	ponjenoral	1	Coma



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PragmaticaCondBold-Reg PragmaticaCondLight-Obl PragmaticaCondLight-Reg

System	Very Common	Common	Uncommon	Rare ≥1/10,000 to
Organ CI ass MedDRA	≥1/10	≥ 1/100 to <1/10	≥ 1/1000 to <1/100	<1/1000
Eye disorders		Visual distur bance		Optic neuritis, Optic neuropathy, Blindness
Cardiac disorders				Heart failure, Arrhythmia
Vascul ar disorders			Gastrointestinal hemorrhage	
Res piratory, thoracicand mediastinal disorders	Cough		Pulmonary toxicity (includingDyspnea, Pulmonary fi brosis, Pneumonitis)	
Gastrointestinal di sorders	Nausea, Vomiting, Diarrhoea	Stomatitis	Pancreaticenzymes abnormal	
Hepatobiliary disorders		4525	Hepaticenzyme abnormal	
Skin and subcutaneous tiss uedisor den		Rash		Skin cancer, Stevens-Johnson syndrome, Necrolysi epidermaltoxic (Lyell type)
General disorders and administration site conditions	Fever, Fatigue, Weakness	Chills, Malaise, Edema, Mucositis		

The most appropriate MedDRA term to describe a certain adverse event is listed. Synonyms or related conditions are not listed, but should be takeninto account as well. Adverse event term representation is based on MedDRA version 120.

Postmarketing experience withfrequencyunknown

- Nervoussystem disorders
 Laukoencephalopathy (see section'Special warnings and precautions for use')
 Anote to the behavencephalopathy (seesection'Special warnings and precautions for use')
 Reversibleposterior leukoencephalopathy syndrome (RPLS) (seesection'Special warningsand precautionsforuse')
 Vissouhardisorders
 Hemorrhage (ncluding Cere bral hemorrhage, Pulmonary hemorrhage, Hemorrhage (totaltis)

 Nemorrhage (including Cere bral hemorrhage, Pulmonary hemorrhage, Hemorrhage (totaltis)

 Nemorrhage (including Cere bral hemorrhage, Pulmonary hemorrhage, Hemorrhage)

 Nemorrhage (including Cere bral hemorrhage)

OVERDOSE

Highlidoses of Fludershave been associated withleukoencephalopathy, acute toxic leukoencephalopathy, or reversible posterior leukoencephalopathy syndrome (PPLS). Symptoms may include headsche, muses and komfling, sietures, visual dietar branes suches vision loss, altered assortium, and food an unordiogical defects, buildingal effects may includeopic neuritis, andpapilitis, corrulator, somnolence, apitalino, paraparesis/ quadriperesis, musde spassichy, incontinence, inversi bile central nervous systemitoxicity-characterized by delayed blindness, come and death. High doses arealso associated with severe throm bodylopatina and neutropenia duebt bothe marrow suppression.

There is no known specificantidatefor Fludara overdosage, Treatment consists ofdrug discontinuation and supportive therapy.

INCOMPATIBILITIES

 $\label{thm:constraints} The \ formulation \ for intravenous use must not \ be \ mixed \ with other drugs.$

SHELF LIFE

See outer cartonfor Shelf Life

Fludaracontains no antimicrobial preservative. Care must be taken to assure the sterility of prepared solutions for injection/flusion. From a microbiological point of view, the product should be used immediately, if not used immediately, in-use strangelimes and conditions prior to use arethe responsibility of theuser and should not belonger than 24 hours at 2 to 8 °C or 8 hours at room temperature.

SPECIAL PRECAUTIONS FOR STORAGE

Store below 25°C.
For storage conditions of the reconstituted or diluted medicinal product, see section 'Shelf life'.

NATUREAND CONTENTS OF CONTAINTER

10 ml colourless Type I glassvials containing 50 mg fludara bine phosphate. Eachpackagecontains5 vials.

INSTRUCTIONS FOR USE / HANDLING

Handling and disposal
Fludarashouldnot be handled bypregnantstaff.

Procedures for proper handlingand disposal should be observed. Consideration should be givento handlingand disposal according to guidelines used for cytotoxic drugs. Any spillage or waste material may be disposed of by incineration.

Associal instructions for the formation for instrumenous use
Relates about be prepared for generated use by associally statistically adding sterile vester for injection. When reconstituted with 2 ml of sterile water for injection, the solid cakes hould fally dissolve in 15 seconds or less. Each mild of the resultance bloody injection will contain 25 mg of Industriate phosphase, 25 mg of mannful, and sodium hydroxide to adjust the pil to 7.7. The pil rangefor the final products 12 - 8.2. In finical studies, the product has been distorted in 100 ml or 125 ml of 55 decreasing enforce on 9.9 sodium charlosine.

Causinshould be exercised in the handlingand preparation of the Fluders solution. The use of latexploves and safety glasses is recommended to avoid exposure in case of breakage of the vide or other accidental spillage. If the solution comes into cortacts with the skin or mucos mem branes, the erest abuild be washed horoughly with soal and viser. In theeventof contact withthe eyes, rinsethem thoroughly with copiousmounts of water. Exposure by inhalistionshould be avoided.

MANUEACTUDED BY

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