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Imatigliv Tablets imatinib

2. QUALITATIVE AND QUANTITATIVE COMPOSITION Imatigliv 100mg Film Coated Tablets: Each tablet contains imatinib Mesylate Ph.Eur equivalent to 100mg Imatinib.

3. PHARMACEUTICAL FORM
Film-coated tablet.
Imatigliv 100mg Film Coated Tablets:Dark Yellow to Brownish-orange tablets, round, biconvex with bevelled edges debossed with "100" on one side and plain on the other side.

4. CLINICAL PARTICULARS
4.1 Therapeutic Indications
Inharibits is indicated for the treatment of adult and pediatric patients with newly diagnosed chronic myeloid leukemia (CMU) as well as for the treatment of adult and pediatric patients with CML in blast crisis, accelerated phase, or in chronic patients with control of the property of the control of the control

*Adult platefils with aggressive systemic insucyase young managers.

The effectiveness of Imatinib is based on overall haematological and cytogenetic response rates and progression-free survival in OML, on haematological and cytogenetic response rates in Ph+ ALL, MDS/MPD, on haematological response rates in HEX/CEL and ASM and on objective response rates in GIST and DFSR and on recurrence-free survival in adjusted (SIT, The experience with Imatinio bipetities with MDS/MPD associated with PDGFR gene re-arrangements is very limited. Except in newly diagnosed chronic phase CML, there are no controlled trials demonstrating a clinical benefit or increased survival in diseases.

4.2 Posology and Method of Administration
Therapy should be initiated by a physician experienced in the treatment of patients with hematological malignancies and malignant scroomas, as appropriate,
The prescribed dose should be administered orally with a meal and a large glass of water to minimize the risk of gastrointestinal disturbances. Doses of 400 mg or 600 mg should be administered once daily, whereas a daily dose of 800 gastrointestinal disturbances. Doses of 400 mg or 600 mg should be administered once daily, whereas a daily dose of 800 for patients unable to swallow the film-coated tablets, the tablets may be dispersed in a glass of water or apple juice. The required number of tablets should be placed in the appropriate volume of beverage (approximately 50 mL or 100 mg tablet, and 200 mL for a 400 mg tablet) and stirred with a spoon. The suspension should be administered immediately after complete disintegration of the tablet(s). Treatment should be continued as long and the patient continues to benefit.

Treatment should be continued as long any in Phi- CMIL patients should be performed routlinely and when therapy is modified, to identify suboptimal response, loss of response to therapy, poor patient compliance, or possible drug-drug interaction, Results of monitoring should guide appropriate CML management.

Dosage in CML.

The recommended dosage of Imatinib is 400 mg/day for adult patients in chronic phase CML and 600 mg/day for patients in accelerated phase or blast crisis.

Dose increase from 400 mg to 600 mg or 800 mg in patients with chronic phase disease, or from 600 mg to a maximum of 800 mg daily in patients in accelerated phase or blast crisis may be considered in the absence of severe adverse drug or greater and the patients of the severe adverse drug or greater and the patients of the severe adverse drug orgerssion (at any time); fallure to achieve a satisfactory hematological response after at least 3 months of treatment; failure to achieve a cytogenetic response after 12 months of treatment; or loss of a previously achieved hematological and/or cytogenetic response.

and/or cytogenetic response.

Dosage in Ph. ALL
The recommended dose of Imatinib is 600 mg/day for adult patients with Ph+ ALL
Dosage in MBS/MPD
The recommended dose of Imatinib is 400 mg/day for adult patients with MDS/MPD.

Dosage in ASM
The recommended dose of Imatinib is 400 mg/day for adult patients with ASM without the D816V c-KIT mutation or mutational status unknown or not responding satisfactorily to other therapies.
For patients with ASM associated with ecsinophila, a clonal hematological disease related to the fusion kinase FFO patients with ASM associated with ecsinophila is done increase from 100 mg to 400 mg for these patients may be considered in the absence of adverse drug reactions if assessments demonstrate an insufficient response

patients may be considered in the absence of adverse drug reactions if assessments demonstrate an insufficient response to therapy.

Dosage in HES/CEL.

The recommended dose of Imatinib is 400 mg/day for adult patients with HES/CEL.

For HES/CEL, patients with demonstrated FIPIL1-PDGFH-alpha fusion kinase, a starting dose of 100 mg/day is recommended. A dose increase from 100 mg to 400 mg for these patients may be considered in the absence of adverse drug reactions if assessments demonstrate an insufficient response to therapy.

Dosage in GIST decendance of the property of the proper

Dosage in GIST.

The recommended dose of Imatinib is 400 mg/day for adult patients with unresectable and/or metastatic, malignant GIST. A dose increase from 400 mg to 600 mg or 800 mg for patients may be considered in the absence of adverse order patients. As dose increase from 400 mg to 600 mg or 800 mg for patients may be considered in the absence of adverse arrow reactions if assessments demonstrate an instrictient response to therapy. The patients following complete gross resection of GIST. In clinical trials one year of Imatinib and three years of Imatinib were studied. In the patient population defined in a study, three years of Imatinib is recommended. The optimal treatment duration with Imatinib is not known.

Dosage in DFSP

The recommended dose of Imatinib is 900 mg/s.

defined in a study, three years of Imatinib is recommended. The optimal treatment duration with Imatinib is not known.

Dosage in DFSP
The recommended dose of Imatinib is 800 mg/day for adult patients with DFSP.
The recommended recommended of the recommended in recommended in the recommended in th

	lable 1 Dose adjustments for neutropenia and thrombocytopenia				
	ASM associated with eosinophilia and HES/CEL with FIP1L1-PDGFR-alpha fusion kinase (starting dose 100 mg)	ANC < 1.0 x10 ⁹ /L and/or platelets < 50 x10 ⁹ /L	1. Stop matinib until ANC $\geq 1.5 \times 10^9 L$ and platelets $\geq 75 \times 10^9 L$. Z. Resume freatment with imatinib at previous dose (i.e. before severe adverse drug reaction).		
	Chronic phase CML, MDS/MPD, ASM, HES/CEL and GIST (starting dose 400 mg)	ANC < 1.0 x10 ⁹ /L and/or platelets < 50 x10 ⁹ /L	 Stop Imatinib until ANC ≥ 1.5 x10⁹L and platelets ≥ 75 x10⁹L. Resume treatment with Imatinib at previous dose (i.e. before severe adverse drug reaction). In the event of recurrence of ANC < 1.0 x10⁹L and/or platelets < 50 x10⁹L, repeat step 1 and resume Imatinib at reduced dose of 300 mg. 		

Pediatric chronic phase CML (at dose 340 mg/m²)	ANC < 1.0 x10°/L and/or platelets < 50 x10°/L	1. Stop Imatinib until ANC \geq 1.5 x10°/L and platelets \geq 75 x10°/L 2. Resume treatment with Imatinib at previous dose (i.e. before severe adverse drug reaction) 3. In the event of recurrence of ANC < 1.0 x10°/L and/or platelets < 50 x10°/L, repeat step 1 andresume Imatinib at reduceddose of 260 mg/m
Accelerated phase CML and blast crisis and Ph+ ALL (starting dose 600 mg ^c)	"ANC < 0.5 x10"/L and/or platelets < 10 x10"/L	1. Check whether cytopenia is related to leukemia (marrow aspirate or biopsy). 2. If cytopenia is unrelated to leukemia, reduce dose of Imatinib to 400 mg². 3. If cytopenia persists for 2 weeks, reduce further to 300 mg². 4. If cytopenia persists for 4 weeks and is still unrelated to leukemia, stop Imatinib until ANDC-1 x10°/L and platelets-> 20 x10°/L, then resume treatment at 300 mg².
DFSP (starting dose 800 mg)	ANC < 1.0 x10 ⁹ /L and/or platelets < 50 x10 ⁹ /L	1. Stop Imatinib until ANC \geq 1.5 x10°/L and platelets \geq 75 x10°/L . 2. Resume treatment with Imatinib at 600 mg .3, In the event of recurrence of ANC < 1.0 x10°/L and/or platelets < 50 x10°/L, repeat step 1 and resume Imatinib at reduced dose of 400 mg.

Special populations
Renal insufficiency
Inatinib and its metabolites are not significantly excreted via the kidney. Patients with renal dysfunction or on dialysis could
be given the minimum recommended dose of 400 mg daily as starting dose. However, in these patients caution is
recommended, The dose can be reduced if not tolerated, the dose can be increased for fact of efficacy.

Headth implications that the resolution of the r

Imatini is mainly metabolized by the liver. Patients with mild, moderate or severe liver impairment should be given the minimum recommended dose of 400 mg dally. The dose can be reduced if not tolerated.

Pediatric patients (below 18 years)

There is no experience with the use of Imatinib in pediatric patients with CML below 2 years of age and with Ph+ALL below 1 year of age. There is no experience with the use of Imatinib in pediatric patients in other indications. Dosing in pediatric patients should be on the basis of body surface area (mg/m²). The dose of 340 mg/m² dally is recommended for children with chronic phase and advanced phase CML and Ph+ALL (not to exceed the total dose of 600 mg dally. Treatment can be given as a once dally dose in CML and Ph+ALL in CML, alternatively the dally dose may be split into two administrations—one in the morning and one in the evening.

No significant age related pharmacokinetic differences have been observed in adult patients in clinical trials which included over 20% of patients age 65 and older. No specific dose recommendation is necessary in the elderly.

4.4 Special Warnings and Precautions for Use
When Imatinib is co-administered with other medications, there is a potential for drug interactions. Caution should be used
when taking limatinib with rifampicin or other strong CVP3A4 inhibitors,
CYP3A4 substrates with a narrow therapeutic window (e.g., cyclosporin or pimozide) or CYP2C9 substrates with a narrow
therapeutic window (e.g., warfarin and other coumarin derivatives).
Hypothyroidism
Clinical cases of hypothyroidism have been reported in thyroidectomy patients undergoing levothyroxine replacement
during treatment with Imatinib, Thyroid-Stimulating Hormone levels should be closely monitored in such patients.

during treatment with mattinib. Thyroid-Stimulating Hormone seves shows a seven the Hepatotoxicity of the Hepa

during treatment with Imatinib. Thyroid-Stimulating Hormone levels surdure by considering the patroxicity in patients with hepatic dysfunction (mild, moderate or severe), peripheral blood counts and liver enzymes should be carefully monitored.

When Imatinib is combined with high dose chemotherapy regimens, transient liver toxicity in the form of transaminases. When Imatinib is combined with high dose chemotherapy regimens, transient liver toxicity in the form of transaminases. When Imatinib is combined with chemotherapy regimens also known to be associated with hepatic dysfunction.

Pluid retention

Occurrences of severe fluid retention (pleural effusion, edema, pulmonary edema, ascites, and superficial edema) have been reported in approximately 2.5% of newly diagnosed CML patients taking Imatinib. Therefore, it is recommended that patients be weighed regulated. Which unexpected most weight again should be carefully investigated and if necessary and the several patients and the patients and those with a prior history of cardiac diseases. There was an increased incidence of these events in elderly patients and those with a prior history of renal failure should be monitored carefully and any patient with cardiac diseases, risk factors for cardiac failure or history of renal failure should be monitored carefully and any patient with signs or symptoms consistent with cardiac or renal failure should be evaluated and treated. In patients with hyperecismophitic syndrome (HES) with occul infiltration of HES cells within the mycoardium, isolated in patients with hyperecismophitic syndrome (HES) with occul infiltration of HES cells within the mycoardium, isolated in patients with hyperecismophitic syndrome (HES) with occul infiltration of HES cells within the mycoardium, isolated in patients with hyperecismophitic syndrome (HES) with occul infiltration of HES cells within the mycoardium, isolated in patients with hyperecismophitic syndrome (HES) with occul infiltration of HES cells within the mycoardium, isolated in pat

symptoms at the start of and during therapy with Imatinib. When needed, Imatinib discontinuation may be considered. Tumor lysis syndrome (TLS) have been reported in patients treated with Imatinib. Due to possible occurrence of TLS, correction of clinically significant dehydration and treatment of high uric acid levels are recommended prior to initiation of Imatinib.

Cases of tumor by sis syndrome (I.S.) have been reported in patients treated with initiation of clinicals significant dehydration and treatment of high unit cacid levels are recommended prior to initiation of Institut.

Reactivation of hepatitis B can occur in patients who are chronic carriers of this virus after receiving a BCR-ABL tyrosine kinase inhibitor (TKI), such as Imatinib. Some cases involving drugs of the BCR-ABL TXI class resulted in acute hepatic failure or fulminant hepatitis leading to liver transplantation or a fatal outcome.

Patients should be tested for hepatitis B infection before initiating treatment with Imatinib, Patients currently on Imatinib should be baseline testing for hepatitis B infection in order to identify chronic carriers of the virus. Experts in liver disease and in the treatment of hepatitis B should be consulted before treatment is initiated in patients with positive hepatitis B carriers of the patitis B virus who require treatment with inatinib should be dosely monitored for signs and symptoms of active hepatitis B virus who require treatment with inatinib should be dosely monitored for signs and symptoms of active hepatitis B virus who require treatment with inatinib should be dosely monitored for signs and symptoms of active hepatitis B virus who require treatment with inatinib should be dosely monitored for signs and symptoms of active hepatitis B virus who require treatment with matinib should be dosely monitored for signs and symptoms of active hepatitis B virus who require treatment with matinib should be dosely monitored for signs and symptoms of active hepatitis B virus who require treatment with matinib should be dosely monitored for signs and symptoms of active hepatitis B virus who require treatment with matinib should be manifold with neutropenia or thrombocytopenia, However, the occurrence of these cytopenias is dependent on as a compared to patients with horizonic phase CML. Treatment with limatinib may be interrupted or the dose be reduced. Liver Function
Liv

Imatinib and its metabolites are not excreted via the kidney to a significant extent. Creatinine clearance (CrCL) is known to decrease with age, and age did not significantly affect Imatinib kinetics. In patients with impaired renal function, Imatinib plasma exposure seems to be higher than that in patients with normal renal function, probably due to an elevated plasma level of alpha-acid glycoprotein (AGP), an imatinib-binding protein, in these patients. There is no correlation between lmatinib exposure and the degree of renal impairment, as classified by the measurement of creatinine clearance (CrCL), between patients with mid (CrCL) 40 to 59 mL/min) and severe (CrCL: <20 mL/min) renal impairment. However, the starting dose of Imatinib can be reduced if not tolerated. Long-term treatment with Imatinib may be associated with a clinically significant decline in renal function. Renal function should, therefore, be evaluated prior to the start of Imatinib therapy and closely monitored during therapy, with particular attention to those patients exhibiting risk factors for renal dysfunction. If renal dysfunction is observed, appropriate management and treatment should be initiated in accordance with standard treatment guidelines.

Pediatric patients (below 18 years)
There have been case reports of growth retardation occurring in children and pre-adolescents receiving Imatinib, The long-term effects of prolonged treatment with Imatinib on growth in pediatric patients are unknown. Therefore, close monitoring of growth in children under Imatinib treatment is recommended.

monitoring of growth in children under Imatinib treatment is recommenced. Driving and using machines. Reports of motor vehicle accidents have been received in patients receiving Imatinib. While most of these reports are not suspected to be caused by Imatinib, patients should be advised that they may experience undestrable effects such as suspected to be caused by Imatinib, patients should be advised that they may experience undestrable effects such as driving a car or operating machinery.

suspected to be caused by Imatinib, patients should be advised that they may experience undesirable effects such as dizziness, blurred vision or somnolence during treatment with Imatinib, Therefore, caution should be recommended when driving a car or operating machinery.

4.5 Interaction with Other Medicinal Products and Other Forms of Interaction
Observed interactions resulting in a concomitant use not recommended
Drugs that may decrease Imatinib plasma concentrations
Substances that are inducers of CVP3A4 activity (e.g., dexamethasone, phenytoin, carbamazepine, rifampicin, phenobarbital or hypericum perforatum, also known as \$1, John's Worlt may significantly reduce exposure to Imatinib, Pretreatment with multiple closes of infampicin, 60 mg daily for 0 days, followed by a single 400 mg dose of Imatinib, Pretreatment with multiple closes of infampicin, 60 mg daily for 0 days, followed by a single 400 mg dose of Imatinib, Pretreatment vitin multiple closes of infampicin, 60 mg daily for 0 days, followed by a single 400 mg dose of Imatinib, Pretreatment vitin multiple closes of infampicin, 60 mg daily for 0 days, followed by a single 400 mg dose of Imatinib, Pretreatment vitin multiple closes of infampicin, 60 mg daily for 0 days, followed by a single 400 mg dose of Imatinib, Pretreatment vitin multiple doses of imatinib, and a product containing and pretrained in patients where individual products are decreased by 73% compared to patients not on IEAEDs, in published studies, concomitant administration of Imatinib decreased by 73% compared to patients not on IEAEDs, in published studies, concomitant administration or Imatinib decreased by 73% compared to patients on the IEAEDs, in published studies, concomitant administration or Imatinib decreased by 33% compared to patients on the IEAEDs, and 10 mg days of the 10 mg

A6 Fartility, pregnancy and lactation
Pregnancy
Risk summary
Imatinib can cause fetal harm when administered to a pregnant woman based on findings from animal reproduction studies,
Risk summary
Imatinib can cause fetal harm when administered to a pregnant women. There have been postmarketing reports of
spontaneous abortions and infant congenital anomalies from women who have taken Imatinib. Reproductive studies in rats
have demonstrated that imatinib mesylate induced teratogenicity (increased incidence of congenital sommalities)
following prenatal exposure to imatinib mesylate at doses equal to the highest recommended human dose of 800 mg/day
based on body surface area, Imatinib should be used during pregnancy only if the expected benefit outweighps the potential
risk to the fetus. If it is used during pregnancy, the patient must be informed of the potential risk to the fetus.

Task to the lettus, in it is used using by-gradiery, in parametric lactation.

Lactation

is not recommended during treatment and on a basis of the Fertility Fernales
Fertility
Fernales
Females of reproductive potential should be advised to use effective contraception (methods that result in less than 1 % pregnancy rates) when using limatinib during treatment and for at least 15 days after stopping treatment with Intantibi, intertility
Inte

4.7 Effects on Ability to Drive and Use Machines Reports of motor vehicle accidents have been received in patients receiving Imatinib. While most of these reports are not suspected to be caused by Imatinib, patients should be advised that they may experience undesirable effects such as dizzness, blurred vision or somnofence during treatment with Imatinib. Therefore, caution should be recommended when driving a car or operating machinery.

4.8 Undesirable Effects
Summary of the safety profile
The overal safet

Events were of mild to moderate grade, and only 2 to 5% of patients permanently discontinued therapy due to drug-related events,
The safety profile of Imatinib in adult and paediatric patients with Ph+ Leukaemias is similar.
The differences in the safety profile between Ph+ leukaemias and sold tumours are a higher incidence and severity of myelosuppression in Ph+ leukaemias, and GI and intra-tumoural haemorrhages in GIST patients and are probably due to disease-related factors. Myelosuppression, GI adverse events, soedman, and rashes are common between these two patient populations. Other GI conditions, such as gastrointestiand obstruction, perforation and ulceration, appear to be may be causally related, include hepatotoxicity, acute renal failure, hypophosphataemia, severe respiratory adverse reactions, and tumour lysis syndrome and growth retardation in children.
Depending on severity of events, dose adjustment may be required, In very few cases will the medication have to be discontinued based on ADRs.
Tabulated summary of adverse drug reactions from clinical trials
Adverse drug reactions (Table 2 and Table 3) are listed by MedDRA system organ class.
Within each system organ class, the adverse drug reactions are ranked by frequency, with the most frequent reactions first. Within each system organ class, the adverse drug reactions are ranked by frequency, with the most frequent reactions first. Within each system organ class, the adverse drug reactions are ranked by frequency, with the most frequent reactions first. Within each system organ class, the adverse drug reactions are ranked by frequency, with the most frequent reactions first. Organization of the programman organization of the corresponding frequency category for each adverse drug reaction is based on the following convention (CIOMS III): very common; common; uncommon; uncommon; are; very rare. Adverse reactions and their frequencies reported in Table 2 are based on the registration studies for CML and CIST.

Table 2 Adverse drug reactions in clinical studies for CML and GIST

Infections and	infestations
Uncommon:	Herpes zoster, herpes simplex, nasopharyngitis, pneumonia1, sinusitis, cellulitis, upper respiratory tract infection, influenza, urinary tract infection, gastroenteritis, sepsis
Rare:	Fungal infection
Blood and lym	phatic system disorders
Very common:	Neutropenia, thrombocytopenia, anaemia
Common:	Pancytopenia, febrile neutropenia
Uncommon:	Thrombocythaemia, lymphopenia, bone marrow depression, eosinophilia, lymphadenopathy
Rare:	Haemolytic anaemia
Metabolism ar	nd nutrition disorders
Common:	Anorexia
Uncommon:	Hypokalaemia, increased appetite, hypophosphataemia, decreased appetite, dehydration, gout, hyperuricaemia, hypercalcaemia, hyperglycaemia, hyponatraemia
Rare:	Hyperkalaemia, hypomagnesaemia

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Psychiatric di	sorders
Common: Uncommon:	Insomnia Depression, libido decreased, anxiety
Rare:	Confusional state
Nervous syste	
Very common	
Common: Uncommon:	Dizziness, paraesthesia, taste disturbance, hypoaesthesia
Oncommon.	Migraine, somnolence, syncope, peripheral neuropathy, memory impairment, sciatica, restless leg syndrome, tremor, cerebral haemorrhage
Rare:	Increased intracranial pressure, convulsions, optic neuritis
Eye disorders	
Common:	Eyelid oedema, lacrimation increased, conjunctival haemorrhage, conjunctivitis, dry eye, blurred vision
Uncommon:	Eye irritation, eye pain, orbital oedema, , scleral haemorrhage, retinal haemorrhage, blepharitis,
D	macular oedema
Rare:	Cataract, glaucoma, papilloedema
	inth disorders
Uncommon:	Vertigo, tinnitus, hearing loss
Cardiac disor	
Uncommon:	Palpitations, tachycardia, cardiac failure, congestive ³ , pulmonary oedema
Rare:	Arrhythmia, atrial fibrillation, cardiac arrest, myocardial infarction, angina pectoris, pericardial effusion
Vascular disc	
Common:	Flushing, haemorrhage
Uncommon:	Hypertension, haematoma, subdural haematoma, peripheral coldness, hypotension, Raynaud's phenomenor
Respiratory, 1	thoracic and mediastinal disorders
Common:	Dyspnoea, epistaxis, cough
Uncommon:	Pleural effusion ⁵ , pharyngolaryngeal pain, pharyngitis
Rare:	Pleuritic pain, pulmonary fibrosis, pulmonary hypertension, pulmonary haemorrhage
Gastrointesti	
	: Nausea, diarrhoea, vomiting, dyspepsia, abdominal pain ⁶
Common:	
	Flatulence, abdominal distension, gastro-oesophageal reflux, constipation, dry mouth, gastritis
Uncommon:	Stomatitis, mouth ulceration, gastrointestinal haemorrhage ⁷ , eructation, melena, oesophagitis, ascites, gastric ulcer, haematemesis, cheilitis, dysphagia, pancreatitis
Para:	
Rare:	Colitis, ileus, inflammatory bowel disease
Hepatobiliary	
Common:	Increased hepatic enzymes
Uncommon:	Hyperbilirubinaemia, hepatitis, jaundice
Rare:	Hepatic failure ⁹ , hepatic necrosis ⁹
	cutaneous tissue disorders
	Periorbital edema, dermatitis/eczema/rash
Common:	Pruritus, face oedema, dry skin, erythema, alopecia, night sweats, photosensitivity reaction
Uncommon:	Rash pustular, contusion, sweating increased, urticaria, ecchymosis, increased tendency to bruise, hypotrichosis, skin hypopigmentation, dermatitis exfoliative, onychoclasis, folliculitis, petechiae,
	psoriasis, purpura, skin hyperpigmentation, bullous eruptions
Rare:	
riare.	Acute febrile neutrophilic dermatosis (Sweet's syndrome), nail discolouration, angioneurotic oedema, rash vesicular, erythema multiforme, leucocytoclastic vasculitis, Stevens-Johnson syndrome, acute
	generalised exanthematous pustulosis (AGÉP)
Musculoskele	etal and connective tissue disorders
Very common	
Common:	Joint swelling
Uncommon:	Joint and muscle stiffness
Rare:	Muscular weakness, arthritis
	nary disorders
Uncommon:	Renal pain, haematuria, renal failure acute, urinary frequency increased
Reproductive	system and breast disorders
Uncommon:	Gynaecomastia, erectile dysfunction, menorrhagia, menstruation irregular, sexual dysfunction, nipple
Oncommon.	pain, breast enlargement, scrotal oedema
General diser	rders and administration site conditions
Very common	: Fluid retention and oedema, fatigue
Common:	Weakness, pyrexia, anasarca, chills, rigors
Uncommon:	Chest pain, malaise
Investigations	3
Very common	
Common:	Weight decreased
Uncommon:	Blood creatinine increased, blood creatine phosphokinase increased, blood lactate dehydrogenase
SACOMINON.	increased, blood alkaline phosphatase increased
Rare:	Blood amylase increased
Pneumonia w	vas reported most commonly in patients with transformed CML and in patients with GIST. as the most common in GIST patients.
On a patient-	year basis, cardiac events including congestive heart failure were more commonly observed in patients wit ML than in patients with chronic CML.
ransformed Cf	VIL than in patients with chronic CML.
Flushing was	most common in GIST patients and bleeding (hematoma, hemorrhage) was most common in patients wit transformed CML (CML-AP and CML-BC).
alo i and with i	transformed GML (GML-AP and GML-BC). on was reported more commonly in patients with GIST and in patients with transformed CML (CML-AP an
CML-BC) than	in patients with chronic CML.
7 Abdomina	nain and dastrointestinal hemorrhade were most commonly observed in GIST natients
Musculoskele	etal pain and related events were more commonly observed in patients with CML than in GIST patients, ases of hepatic failure and of hepatic necrosis have been reported.
he following to	ypes of ADRs have been reported from post-marketing experience and from additional clinical studies with
matinib. They	ypes of ADRs have been reported from post-marketing experience and from additional clinical studies will include spontaneous case reports as well as serious ADRs from smaller or ongoing clinical studies and the
expanded acce	ess programs. Because these ADRs are reported from a population of uncertain size, it is not always possib
able 3 Advers	nate their frequency or establish a causal relationship to Imatinib exposure. se drug reactions from post-marketing reports
Investigations	
Not known:	Not known: Hepatitis B reactivation
Not known: Nervous system	em disorders
Not known: Nervous syste Uncommon:	em disorders Cerebral oedema
Not known: Nervous system Uncommon: Eye disorders	em disorders Cerebral oedema
Not known: Nervous syste Uncommon: Eye disorders Rare:	em disorders Cerebral oedema Vitreous haemorrhage
Not known: Nervous syste Uncommon: Eye disorders Rare: Cardiac disor	em disorders Cerebral oedema s Vitreous haemorrhage ders
Not known: Nervous syste Uncommon: Eye disorders Rare: Cardiac disor Rare:	em disorders Cerebral oedema s Vitreous haemorrhage ders Pericarditis, cardiac tamponade
Not known: Nervous syste Uncommon: Eye disorders Rare: Cardiac disor	em disorders Cerebral oedema s Vitreous haemorrhage ders Pericarditis, cardiac tamponade
Not known: Nervous syste Uncommon: Eye disorders Rare: Cardiac disor Rare: Vascular diso	em disorders Cerebral oedema s Vitreous haemorrhage ders Pericarditis, cardiac tamponade rders
Not known: Nervous syste Uncommon: Eye disorders Rare: Cardiac disor Rare: Vascular diso Uncommon:	em disorders Cerebral oedema Ittroous haemorrhage ders Pericarditis, cardiac tamponade rders Thrombosis/embolism
Not known: Nervous syst Uncommon: Eye disorders Rare: Cardiac disor Rare: Vascular diso Uncommon: Very rare:	em disorders Cerebral oedema s Vitreous haemorrhage ders Pericarditis, cardiac tamponade roders Thrombosis/embolism Anaphylactic shock
Not known: Nervous syst Uncommon: Eye disorders Rare: Cardiac disor Rare: Vascular diso Uncommon: Very rare: Respiratory, t	em disorders Cerebral oedema s Vitreous haemorrhage ders Pericarditis, cardiac tamponade rders Thrombosis/embolism Anaphylactic shock thoracic and mediastinal disorders
Not known: Nervous syst Uncommon: Eye disorders Rare: Cardiac disor Rare: Vascular diso Uncommon: Very rare: Respiratory, t Uncommon:	em disorders Cerebral oedema Introus haemorrhage ders Pericarditis, cardiac tamponade rders Thrombosis/embolism Anaphylactic shock thoracic and mediastinal disorders Acute respiratory failure*, interstitial lung disease
Not known: Nervous syst Uncommon: Eye disorders Rare: Cardiac disor Rare: Vascular diso Uncommon: Very rare: Respiratory, 1	em disorders Cerebral oedema Introus haemorrhage ders Pericarditis, cardiac tamponade rders Thrombosis/embolism Anaphylactic shock thoracic and mediastinal disorders Acute respiratory failure*, interstitial lung disease

Uncommon: Ileus/intestinal obstruction, tumour haemorrhage/tumour necrosis, gastrointestinal perforation²

Rare: Diverticulitis, gastric antral vascular ectasia (GAVE)

Uncommon:	Palmar-plantar erythrodysaesthesia syndrome
Rare:	Lichenoid keratosis, lichen planus, pemphigus
Very rare:	Toxic epidermal necrolysis
Not known:	Drug rash with eosinophilia and systemic symptoms (DRESS), pseudoporphyria
Muscujoskejet	al and connective tissue disorders
Very common:	Musculoskeletal pain upon treatment discontinuation (including myalgia, pain in extremity, arthralgia, bone pain, spinal pain)
Uncommon:	Osteonecrosis
Rare:	Rhabdomyolysis/myopathy
Not known:	Growth retardation in children
Reproductive	disorders
Very rare:	Haemorrhagic corpus luteum / haemorrhagic ovarian cyst
Neoplasm ben	ign, malignant and unspecified (including cysts and polyps)
Rare:	Tumour lysis syndrome
other serious of Some fatal cas lescription of s lyelosuppression lyelosuppression eutropenia and	we been reported in patients with advanced disease, severe infections, severe neutropenia and oncomitant conditions oncomitant conditions ses of gastrointestinal perforation have been reported selected adverse drug reactions on were common in cancer patients treated with Imatinib, Myelosuppression, thrombocytopeni d anaemia were the most frequently reported Grade 3 and 4 laboratory abnormalities. Over on experienced with Imatinib in CML patients was generally reversible and in most patients did not result.

myelosuppression experienced with Imatinib in CML patients was generally reversible and most patients did not result in dose interruption or dose reduction. Few patients required drug discontinuation. Other events of parcytopenia lymphopenia and bone marrow depression have also been reported. Heamatologic depression appeared greatest at the highest doses and also appeared to be dependent on the stage of CML disease, with Grade 3 or 4 neutropenia and thrombocytopenia between 4 and 5 times higher in blast and accelerated phase so compared to newly diagnosed patients in CP CML. These events can usually be managed with either a dose reduction or interruption, but they rarely require discontinuation of treatment with Imatinib. The incidence of hematologic toxicities is less in patients with Spot Imarrows (i.e. GIST) than in patients with Ph+ leukaemias, with Grade 3/4 neutropenia and thrombocytopenia occurring approximately 10% and 1%, respectively.

less in patients with solid tumours (i.e. GIST) than in patients with Ph- leukaemias, with Grade 3/4 neutropenia and thrombocytopenia occurring approximately 10% and 1%, respectively.

Haemorrhage
Haemorrhages are not uncommon in CML patients with compromised marrow function at baseline, and the patients of the companients of the comp

disease-related risk factors. In addition, a published special safety analysis of cardiac events within the EORTC study of 942 patients with unresectable or metastatic GIST concluded that Imatinio does not induce left ventricular failure in GIST patients where the observed rate was approximately 0.25% while it can be up to 25% in a population with pre-existing cardiac patients where the observed rate was approximately 0.25% while it can be up to 25% in a population with pre-existing cardiac patients where the observed rate was approximately 0.25% while it can be up to 25% in a population with pre-existing cardiac patients and present provided the provided provided the provided p

A causal relationship between turnour lysis syndrome and Imatinib treatment is deemed possible, although some cases were confounded by concomitant medications and other independent risks.

Crowth retardation in potatitic patients.

Crowth retardation in potatitic patients are patients of the patient of the patient patients and instance of the patient patients and instance of the patient patients and instantib retardation in CML there was although for some cases of growth retardation in CML there are lateral intending and the patients and instance of the patients are patients and instance of the patients are patients and instance of the patients are patients and instance of the patients and instance of the patients are patients and instance of the patients and instance of the patients are patients and instance of the patients and instance of the patients are patients. The patients are patients are patients are patients and instance of the patients are patients and instance of the patients are patients. The patients are patients ar

Laboratory test abnormalities Haematology
GML-associated cytopenias, particularly neutropenia and thrombocytopenia, have been a consistent finding in all studies, with the suggestion of a higher frequency at high doses ±750 mg (phase I study). However, the occurrence of cytopenias was also clearly dependent on the stage of the cliesces. In patients with newly diagnosed CML, cytopenias was also clearly dependent on the stage of the cliesces. In patients with newly diagnosed CML, cytopenias was also clearly dependent on the stage of the cliesces. In patients with newly diagnosed CML, cytopenias was also clearly dependent on the stage of the cliesces. In patients with newly diagnosed CML, cytopenia was thrombocytopenia (patients) and thrombocytopenia, respectively) as compared to newly diagnosed patients in chronic phase CML (16.78 heutropenia and thrombocytopenia, respectively) as compared to newly diagnosed patients of the control patient of the control patients was the control patients was patients. Or an interruption of treatment with Innatinib, but can in rare cases lead to permanent discontinuation of treatment, in policial control patients was patients. As a control patients was patients was patients. Or patients was patients was patients. Or patients was patients was patients. Grade 3 and 4 neutropenia were seen in 7.5% and 2.7% of patients, respectively, and Grade 3 thrombocytopenia no.7% of patients. No patient developed Grade 4 thrombocytopenia relatively stable thereafter.

Biochemistry
Severe elevation of transaminases (<5%) or bilirubin (<1%) has been seen in CML patients and was usually managed with
dose reduction or interruption (the median duration of these episodes was approximately one week) of Imatinib. Treatment
was discontinued permanently because of liver laboratory abnormalities in less than 1% of CML patients. In GIST patients
was discontinued permanently because of liver laboratory abnormalities in less than 1% of CML patients. In GIST patients
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There have been cases of cytolytic and cholestatic hepatitis and hepatic failure; in some of which outcome was fatal.

4 9 Overdose
Experience with higher than therapeutic doses is limited, Isolated cases of Imatinib overdosage have been reported spontaneously and in the literature. Generally the reported outcome in these cases was improvement or recovery. In the event of overdosage the patient should be observed and appropriate symptomatic treatment should be given. Events that have been reported at different dose ranges are as follows:

Adult overdose
Adult overdose
(duration varying between 1 to 10 days): Nausea, vomiting, diarrhea, rash, erythema, edema, swelling, statique, muscle spasms, thrombortopoenia, panortopenia, abdominal pain, headache, decreased appetite, 1,800 to 3,200 mg (as high as 3,200 mg daily for 6 days): Weakness, myalgia, increased CPK, increased bilirubin, gastrointestinal pain.

6,400 mg (single dose): One case in the literature reported one patient who experienced nausea, vomiting, abdominal pain, pyrexia, lacidal swelling, neutrophil court decreased, increased transaminases.

9, Venitario overdose

1, Venitario overdose
1, Venitario and gastrointestinal pain have been reported.

1, Pediatric overdose
1, Venitario and gastrointestinal pain have been reported.

1, Pediatric overdose
1, Venitario and male exposed to a single dose of 400 mg experienced vomiting, diarrhea and anorexia and another 3 year old male exposed to a single dose of 480 mg experienced vomiting, diarrhea and anorexia and another 3. PHABMAGIOL (SIGCAL PROPERTIES).

5. PHARMACOLOGICAL PROPERTIES
5.1 Pharmacodynamic Properties

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Mechanism of action (MOA)
Intainib is a small molecule protein-tyrosine kinase inhibitor that potently inhibits the activity of the BCR-ABL tyrosine kinase (TK), as well as several receptor TKs: KIT, the receptor for stem cell factor (SCP) coded for by the KIT through the several receptor for stem cell factor (SCP) coded for by the KIT through the several receptor for stem cell factor (SCP) coded for by the KIT through the several receptor for for several receptor for several receptor for for several receptor for for several receptor for several recept

of cells driven by dysregulated PDGFR, KIT and ABL kinase activity.

5.2 Pharmacokinetic Properties
The pharmacokinetic Properties
The pharmacokinetics of Imatinib have been evaluated over a dosage range of 25 to 1,000 mg, Plasma pharmacokinetic
profiles were analyzed on day 1 and on either day 7 or day 26, by which time plasma concentrations had reached steady
Absorption
Mean absolute bioavallability for the capsule formulation imatinib is 98%. The coefficient of variation for plasma imatinib
AUC is in the range of 40% to 60% after an oral dose. When given with a high fat meal, the rate of absorption of Imatinib
was minimally reduced (11% decrease in C_{max} and protongation of t_{max} by 1,5 h), with a small reduction in AUC (7,4%)
compared to fasting conditions.

At clinically relevant concentrations of Imatinib, binding to plasma proteins was approximately 95% on the basis of in vitro
experiments, mostly to albumin and alpha-acid-dyscoprotein, with little binding to lipoprotein.

Biotransformation/metabolism
The main icruculating metaboliste in humans is the N-demethylated piperazine derivative (CQP71588), which shows similar in
vitro potency as the parent compound. The plasma AUC for this metabolite was found to be only 16% of the AUC for
Imatinib. The plasma protein binding of the N-demethylated metabolite is similar to that of the parent compound.

Based on the recovery of compound(s) after an oral "C-labelled dose of Imatinib, approximately 81% of the dose was
eliminated within 7 days in fecse (68% of dose) and urine (13% of dose). Unchanged Imatinib accounted for 25% of the
dose (5% urine, 20% fecse), the remainder being metabolites.

The mean apparent elimination half-life estimated from the single dose PK study was 13.5 hours. The half-life of all
"C-labelled components in plasma was from 41-72 hours.

Part of the parent compound in healthy outputers, the t. was approximately 18 h. suggesting that once-daily dosing is

"0-labelled components in plasma was from 4 i-12 nours.

Plasma pharmacokinetics.

Following oral administration in healthy volunteers, the ts, was approximately 18 h, suggesting that once-daily dosing is appropriate. The increase in mean AUC with increasing dose was linear and dose proportional in the range of 25 to 1,000 mg and administration. There was no change in the kinetics of limatinib on repeated dosing, and accumulation was 1,5 to 2,5 fold at steady state when dosed once daily.

mg Imatinib after oral administration. There was no change in the kinetics of imatinib on repeated dosing, and accumulation was 1,5 to 2,5 fold at steady state when dosed once daily.

Special populations
Based on population pharmacokinetic analysis, there was a small effect of age on the volume of distribution (12% increase in patients) 25 years old. This change is not thought to be clinically significant. The effect of body weight on the clearance with the clearance of the composition of the clearance and the clearance of the

exposure to Imatinib did not increase in patients with varying degrees of liver or normal liver function.

PACK SIZES:

6/10's (60 Tablets)

(Alu-Alu blisters having 10 Tablets in each and packed in unit carton with leaflet).

STORAGE CONDITIONS:

DO not Store above 30°C, Protect from Sunlight & Moisture.

DOSAGE AND INSTRUCTION:
As Directed by physician.
Keep out of reach of children.

خوراک: ڈاکٹر کی ہدایت کے مطابق استعال کریں ہدایات: دواکو ۳۰ و گری سینٹی گریڈ در جدر ارت سے زیادہ پر ندر تھیں ۔ دھوپاورنمی سے بچائیں۔ بچوں کی پہنچ سے دور رکھیں۔

10mm

Manufactured by: oncügen