DASATINIB-TEVA FC TABLETS

1 NAME OF THE MEDICINAL PRODUCT Dasatinib-Teva FC tablet 50mg Dasatinib-Teva FC tablet 70mg

2 OUALITATIVE AND OUANTITATIVE COMPOSITION

20mg: Each film-coated tablet contains 20.739mg of Dasatinib monohydrate, equivalent to 20mg of Dasatinib. 50mg: Each film-coated tablet contains 51.847mg of Dasatinib monohydrate, equivalent to 50mg of Dasatinib. 70mg: Each film-coated tablet contains 72.585mg of Dasatinib monohydrate, equivalent to 70mg of Dasatinib. drate, equivalent to 20mg of Dasatinib

pre: Lactose monohydrate. Microcrystalline cellulose. Hydroxypropylcellulose. Cross

Film-coating: Hypromellose, Titanium dioxide (E171), Triacetin (E1518).

3 PHARMACEUTICAL FORM

20mg: White to off-white, round film-coated tablet with bevelled edges and with "20" debossed on one side of the tablet 50mg: White to off-white, oval film-coated tablet with bevelled edges and with "50" debossed on one side of the tablet. 70mg: White to off-white, round film-coated tablet with bevelled edges and with "70" debossed on one side of the tablet.

4 INDICATIONS AND USAGE

Dasatinib is indicated for the treatment of adult patients with

- newly diagnosed Philadelphia chromosome-positive (Ph+) chronic myeloid leukemia (CML) in chronic phase.
- chronic, accelerated, or myeloid or lymphoid blast phase CML with resistance or intolerance to prior therapy ncluding imatin
- Philadelphia chrom sitive acute lymphoblastic leukemia (Ph+ ALL) with resistance or into

Dasatinib is indicated for the treatment of pediatric patients with
- newly diagnosed Ph+ CML in chronic phase or Ph+ CML-CP resistant or intolerant to prior therapy including imatini
- newly diagnosed Ph+ ALL in combination with chemotherapy.

5 DOSAGE AND ADMINISTRATION

5.1 Dosage of Dasatinib in Adult Patients ge of Dasatinib for accelerated phase CML, myeloid or lymphoid blast phase CML, or red orally once daily. Tablets should not be crushed or cut; they should be swallowe ALL in adults is 140mg, admin inib can be taken with or without a meal, either in the morning or in the evening

5.2 Dosage of Dasatinib in Pediatric Patients with CML or Ph+ ALL

s shown in Table 1. The recom orally once daily with or without food. Recalculate the dose every 3 months based on changes body weight, or more often if necessary

Do not crush, cut or chew tablets. Swallow tablets whole. There are additional administration considerations for pedia patients who have difficulty swallowing tablets whole. Dispersal of tablets shows a reduction in exposure of Dasatini based on limited clinical data [see Use in Specific Populations (10.3) and Clinical Pharmacology (13)].

There is no experience with Dasatinib treatment in children under 1 year of age.

Table 1: Dosage of Dasatinib Tablets for Pediatric Patients^a

Body Weight (kg) ^b	Daily Dose (mg)
10 to less than 20 kg	40 mg
20 to less than 30 kg	60 mg
30 to less than 45 kg	70 mg
at least 45 kg	100 mg

^a For pediatric patients with Ph+ ALL, begin Dasatinib therapy on or before day 15 of induction chemotherapy, when diagnosis is confirmed and continue for 2 years. ^a Tablet dosing is not recommended for patients weighing less than 10 kg.

Refer to Section 5.4 for recommendations on dose escalation in adults with CML and Pb+ ALL and pediatric patients with

DASATINIB-TEVA FC

TABLETS

5.3 Dose Modification Strong CYP3A4 inducers: Avoid the use of concomitant strong CYP3A4 inducers and St. John's wort. If patients coadministered a strong CYP3A4 inducer, consider a Dasatinib dose increase. If the dose of Dasatinib is increase the patient carefully for toxicity [see Drug Interactions (9.2)].

Strong CYP3A4 inhibitors: Avoid the use of concomitant strong CYP3A4 inhibitors and grapefruit juice. Recommend selecting an alternate concomitant medication with no or minimal enzyme inhibition potential, if possible. If Dasatinib must be administered with a strong CYP3A4 inhibitor, consider a dose decrease to:

- 40 mg daily for natients taking Dasatinih 140 mg daily
- 20 mg daily for patients taking Dasatinib 100 mg dail
 20 mg daily for patients taking Dasatinib 70 mg daily

For patients taking Dasatinib 60mg or 40mg daily, consider interrupting Dasatinib until the inhibitor is discontinued. Allow a washout period of approximately 1 week after the inhibitor is stopped before reinitiating Dasatinib.

These reduced doses of Dasatinib are predicted to adjust the area under the curve (AUC) to the range observed without CYP3A4 inhibitors; however, clinical data are not available with these dose adjustments in patients receiving strong CYP3A4 inhibitors. If Dasatinib is not tolerated after dose reduction, either discontinue the strong CYP3A4 inhibitor or interrupt Dasatinib until the inhibitor is discontinued. Allow a washout period of approximately 1 week after the inhibitor is stopped before the Dasatinib dose is increased. [See Drug Interactions (9.1).]

5.4 Dose Escalation in Adults with CML and Ph+ ALL, and Pediatric Patients with CML

once daily (advanced phase CML and Ph+ ALL) in patients who do not achieve a hematologic or cytogenetic respo the recommended starting dosage.

For pediatric patients with CML, consider dose escalation to 120mg once daily (see Table 2 below). Dose recommended for pediatric patients with Ph+ ALL, where Dasatinib is administered in combination with c

Escalate the Dasatinib dose as shown in Table 2 in pediatric patients with chronic phase CML who do not achieve a hematologic or cytogenetic response at the recommended starting dosage at the recomm

Table 2:Dose Escalation for Paediatric Patients with CML

Formulation	Dose (maximum dose per day)	
Tablets	Starting Doco	Eccolation

ablets	Starting Dose	Escalation
	40 mg	50 mg
	60mg	70 mg
	70 mg	90 mg
	100 mg	120 mg

5.5 Dose Adjustment for Adverse Reactions

Myelosuppression In clinical studies, myelosuppression was managed by dose interruption, dose reduction, or discontinuation of stuc therapy. Hematopoietic growth factor has been used in patients with resistant myelosuppression. Guidelines for d modifications for adults and pediatric patients are summarized in Tables 3 and 4, respectively.

Table 3: Dose Adjustments for Neutropenia and Thrombocytopenia in Adults

Table St Bose Majastin	ento foi neutropenna a	na monocytopena m Adarts
		1. Stop Dasatinib until ANC $\geq 1.0 \times 10^{9}/L$ and platelets $\geq 50 \times 10^{9}/L$
Chronic Phase CMI	ANC* < 0.5 × 10 ⁹ /l	 Resume treatment with Dasatinib at the original starting dose if recovery occurs in ≤7 days.
(starting dose 100 mg once daily)	or Platelets <50 × 10 ⁹ /L	3. If platelets <25 × 10 ⁹ /L or recurrence of ANC <0.5 × 10 ⁹ /L for >7 days, repeat Step 1 and resume Dasatinib at a reduced dose of 80 mg once daily for second episode. For third episode, further reduce dose to 50 mg once daily (for newly diagnosed patients) or discontinue Dasatinib (for patients resistant or intolerant to prior therapy including imatinib).

Accelerated Phase CML, Blast Phase CML and Ph+ ALL (starting dose 140 mg once daily)	ANC* <0.5 × 10 ⁹ /L or Platelets <10 × 10 ⁹ /L	 Check if cytopenia is related to leukemia (marrow aspirate or biopsy). If cytopenia is unrelated to leukemia, stop Dasatinib until ANC ≥1.0 × 10⁹/L and platelets ≥20 × 10⁹/L and resume at the original starting dose. If ecurrence of cytopenia, repeat Step 1 and resume Dasatinib at a reduced dose of 100 mg once daily (second episode) or 80 mg once daily (third episode). If cytopenia is related to leukemia, consider dose escalation to 180 mg once daily. 	treated with D (QTcF) were 4 patients with prolongation r Dasatinib sho patients with I medicines or o Hypokalemia o 7.5 Cardiac . Dasatinib was included patie
*ANC: absolute neutropl	hil count		nericardial eff

Table 4: Dose Adjustment or Neutropenia and Thrombocytopenia in Pediatric Patients with Ph+ CM

1. If cytopenia persists for more than 3 weeks,	Tablet Dose (maximum dose per day)		
check if cytopenia is related to leukemia (marrow aspirate or biopsy). 2. If cytopenia is unrelated to leukemia, stop	Original Starting Dose	One-Level Dose Reduction	Two-Level Dose Reduction
Dasatinib until ANC* \geq 1.0 × 10 ⁹ /L and platelets \geq 75 × 10 ⁹ /L and resume at the original starting	40 mg	20 mg	**
dose or at a reduced dose.	60 mg	40 mg	20 mg
 If cytopenia recurs, repeat marrow aspirate/ biopsy and resume Dasatinib at a reduced dose. 	70 mg	60 mg	50 mg
	100 mg	80 mg	70 mg

*ANC: absolute neutrophil count

For pediatric patients with chronic phase CML, if Grade 2.3 neutropenia or thrombocytopenia recurs during comp hematologic response (CHR), interrupt Dasatinib and resume at a reduced dose. Implement temporary dose redu intermediate degrees of cytopenia and disease response as needed.

For pediatric patients with Ph+ ALL, if neutropenia and/or thrombocytopenia result in a delay of the next block of tre The period patients with the start of the s

Non-hematological adverse reactions

erate (Grade 2) non-hematologic adverse reaction develops with Dasatinib,treatment should be interrupte erse reaction has resolved or returned to baseline. The same dose should be resumed if this is the dose should be reduced if this is a recurrent adverse reaction. If a severe (Grade 3 or 4) non-hematologic a develops with Dasatinib use, treatment must be withheld until the event has resolved or improved. There t can be resumed as appropriate at a reduced dose depending on the severity and recurrence of the event [Se Warnings and Precautions (7)1.

For adult patients with chronic phase CML who received 100mg once daily, dose reduction to 80mg once daily with furth reduction from 80mg once daily to 50mg once daily, if needed, is recommended. For adult patients with advanced phase CML or Ph+ ALL who received 140mg once daily, dose reduction to 100mg once daily with further reduction from 100mg once daily to 50mg once daily. If needed, is recommended.

utional upper limit of normal (ULN), interrupt treatment until impr

1. If a non-hematologic toxicity Grade 2 occurs, consider interrupting Dasatinib if no recovery	Tablet I	Dose (maximum dose	per day)
despite symptomatic therapy; once recovered to Grade 31, resume at the original starting dose. Resume Dasatinib at a reduced dose for recurrent events. 2. If a non-hematologic toxicity Grade 3 occurs,	Original Starting Dose	One-Level Dose Reduction	Two-Level Dose Reduction
stop Dasatinib until recovery to Grade ≤1 and then resume at a reduced dose.	40 mg	20 mg	**
 If direct bilirubin is >5 ULN or AST/ALT >15 ULN, interrupt Dasatinib until recovery to Grade ≤1 	60 mg	40 mg	20 mg
and then resume Dasatinib at the original starting dose. Resume Dasatinib at a reduced dose for	70 mg	60 mg	50 mg
recurrent events.	100 mg	80 mg	70 mg

5.6 Duration of Treatment The duration of meanners in the duration of th

In clinical studies, treatment with Dasatinib in pediatric patients with Ph+ ALL was administered for a maximum duration of 2 years [see Dosage and Administration (5.2) and Clinical Studies (15)].

6 CONTRAINDICATIONS

Hypersensitivity to the active substance or to any of the excipients.

ronic phase (ML) or 180mg 7 WARNINGS AND PRECAUTIONS

7.1 Myelosuppression

Treatment with Dasatinib is associated with thrombocytopenia, neutropenia, and anemia. Their occurrence is earlier and more frequent in patients with advanced phase CML or Ph+ ALL than in chronic phase CML. In patients with advanced phase CML or Ph+ ALL, complete blood counts should be performed weekly for the first 2 months and then monthly thereafter, or as clinically indicated. In patients with chronic phase CML, complete blood counts should be performed week 2 weeks for 12 weeks, then every 3 months thereafter or as clinically indicated.

In pediatric patients with Ph+ ALL treated with Dasatinib in combination with chemotherapy, perform CBCs prior to the si of each block of chemotherapy and as clinically indicated. During the consolidation blocks of chemotherapy, perform CBCs every 2 days until recovery.

Myelosuppression is generally reversible and usually managed by withholding Dasatinib temporarily or dose reduction [see Dosage and Administration (5.3) and Adverse Reactions (8)].

7.2 Bleeding In patients with chronic phase CML (n=548). 5 patients (1%) receiving Dasatinib had Grade 3 or 4 hemorrhage. In patients with advanced phase CML or Ph+ ALL, severe (Grade 3 or 4) central nervous system (CNS) hemorrhages occurred in 1% of patients receiving Dasatinib at the recommended dose (n=304). One case was fatal and was associated with Common Toxicity Criteria (CTC) Grade 4 thrombocytopenia, Grade 3 or 4 gastrointestinal hemorrhage occurred in 6% of patients with torus (CML) and transfusions. Other Grade 3 or 4 hemorrhage advanced phase CML and generally required treatment interruptions and transfusions. Other Grade 3 or 4 hemorrhage occurred in 2% of patients with advanced phase CML Most bleeding events in these patients were associated with severe thrombocytopenia. Additionally, *in vitro* and *in vivo* platelet assays suggest that Dasatinib treatment reversibly affects platelet activation.

Caution should be exercised if patients are required to take medications that inhibit platelet function or anticoagulants.

7.3 Fluid Retention

7.3 Fluid Retention Dasatinib is associated with fluid retention. In the Phase III clinical study in patients with newly diagnosed chronic phas CML study, Grade 3 or 4 fluid retention was reported in 13 patients (5%) in the dasatinib group and in 2 patients (1% in the imatinib-treatment group after a minimum of 60 months follow-up (see Adverse Reactions (8)). In all Dasatinib 4 -treated patients with chronic phase CML, severe fluid retention occurred in 32 patients (6%) receiving Dasatinib at the recommended dose. In clinical trials in patients with advanced phase CML, Grade 3 or 4 fluid retention was reported in description for the CML and the retention occurred to 100 day of 100 detection was reported in the retention of the CML and the retention occurred to 100 detection of 100 detection on a resolution. satinih at the of patients, including Grade 3 or 4 pleural and pericardial effusion reported in 7% and 1% of patients, respectively. In these patients, Grade 3 or 4 pulmonary edema and pulmonary hypertension were each reported in 1% of patients.

Patients who develop symptoms suggestive of pleural effusion such as dyspnea or dry cough should be evaluated by chest X-ray. Severe pleural effusion may require thoracentesis and oxygen therapy. Fluid retention events were typically managed by supportive care measures that include diuretics or short courses of steroids. Patients aged 55 years and older are more likely than younger patients to experience pleural effusion, dyspnoea, cough, pericardial effusion and congestive heart failure, and should be monitored closely.

7.4 QT Prolongation

that dasatinib has the potential to prolong cardiac ventricular repolarization (OT interval). In 258 ents treated with Dasatinib and 258 patients treated with imatinib with a minimum of 60 months follow-up in the Phase Ill study of newly diagnosed chronic phase CML, 1 patient (1%) in each group had QTc prolongation reported as an adverse reaction. The median changes in QTcF from baseline were 3.0 msec in Dasatinib-treated patients compared to 8.2 msec in imatinib-treated patients. One patient (1%) in each group experienced a QTcF >500 msec. In 865 patients with leukemia

Dasatinib in Phase 2 clinical studies, the mean OTc interval changes from baseline using Fridericia's

7.6 Pulmonary Arterial Hypertension

7.7 Embryofetal Toxicity

oming pregnant while receiving treatment with Dasatinib.

7.8 Severe Dermatologic Reactions

reaction during treatment if no other etiology can be identified.

HBV serology.

the treatment of HBV is recommended

For pediatric patients with chronic phase CML who develop non-hematologic adverse reactions, the dose reduction recommendations for hematologic adverse reactions that are described above should be followed.

For nediatric patients with Ph+ ALL, interrupt treatment for cases of Grade > 3 non- hematologic adverse reacti or Grade <1. For elevated AST/ALT over 15 times the institutional ULN, interrupt treatment until improvement to b or Grade <1. For recurrent liver function test abnormalities as above, reduce the dose if this adverse reaction recurs after reinitiation of Dasatinib. Dose reduction recommendations are described in Table 5.

Table 5: Dose Adjustments for Non-Hematologic Toxicities in Pediatric Patients

				 Retardation Grade 31. These 6 cases if
1. If a non-hematologic toxicity Grade 2 occurs, consider interrupting Dasatinib if no recovery	Tablet (Dose (maximum dose	per day)	gynecomastia (see section 7.1). These require long-term follow-up.
despite symptomatic therapy; once recovered to Grade S1, resume at the original starting dose. Resume Dasatinib at a reduced dose for recurrent events. 2. If a non-hematologic toxicity Grade 3 occurs,	Original Starting Dose	One-Level Dose Reduction	Two-Level Dose Reduction	In pediatric trials of Dasatinib in comb maximum of 2 years of treatment, tre reported in 1 (0.6%) patient. This case
stop Dasatinib until recovery to Grade ≤1 and then resume at a reduced dose.	40 mg	20 mg	**	8. ADVERSE REACTIONS
 3. If direct bilirubin is >5 ULN or AST/ALT >15 ULN. interrupt Dasatinib until recovery to Grade ≤1 	60 mg	40 mg	20 mg	DASATINIB as single-agent therapy
and then resume Dasatinib at the original starting dose. Resume Dasatinib at a reduced dose for	70 mg	60 mg	50 mg	The data described below reflect the (N=2,900), including 324 adult patier
recurrent events.	100 mg	80 mg	70 mg	resistant or -intolerant chronic or adva with either chronic phase CML, advance

* lower tablet dose not availab

INIB as single-agent therapy

tmarketing data). Within each frequ

Infections and infestations

Table 6: Tabulated Summary of Adverse Reactions

Not known hepatitis B reactivation Blood and lymphatic system disorders

Uncommon Iymphadenopathy, Iymp

Immune System Disorders

Endocrine Disorders

Psychiatric disorders

Nervous system disorde

common hypothyroidism

Metabolism and nutrition disorders

ommon depression, insomnia

febrile neutropenia

aplasia pure red cell

anaphylactic shock

hyperthyroidism, thyroiditis

Common appetite disturbances^b, hyperuricaemia

diabetes mellitus

nmon hypersensitivity (including erythema n

nfection, sepsis (including un

erv common beadache 4-6 mset; the upper 95% confidence intervals for all mean changes from baseline ware (-7 msec. Of the 2182 th resistance or intolerance to prior imatinib therapy who received Dasatinib in clinical studies, 15 (1%) had QTc n reported as an adverse reaction. Twenty-one of these patients (1%) experienced a QTcF >500 msec. ommon neuropathy (including peripheral neuropathy), dizziness, dysgeusia, som CNS bleeding^{*c}, syncope, tremor, amnesia, balance disorder ould be administered with caution to patients who have or may develop prolongation of QTc. These include h hypokalemia or hypomagnesemia, patients with congenital long QT syndrome, patients taking anti-arrhythn r other medicinal products that lead to QT prolongation, and cumulative high-dose anthracycline therapy. a or hypomagnesemia should be corrected prior to Dasatinib administration. ar accident, transient ischaemic attack, convulsion, optic neuritis, VIIth nerve pa Eve disorder visual disorder (including visual disturbance, vision blurred, and visual acuity reduced), dry eye mized trial of 519 natients with newly diagnosed CML in chronic phase which mmon visual impairment, conjunctivitis, photophobia, lacrimation increased included patients with prior cardiac disease. The cardiac adverse reactions of congestive heart failure/cardiac dysfunction, pericardial effusion, arrhythmias, palpitations, QT prolongation and myocardial infarction (including fatal) were reported in patients taking Dasatinib. Adverse cardiac events were more frequent in patients with risk factors or a history of cardiac disease. Patients with risk factors or a history of cardiac disease should be monitored carefully for signs or symptoms interaction to the outer disease the outer bar disease should be patient of account of the outer disease. Ear and labyrinth disorders mmon hearing loss, vertigo Cardiac disorders n (PAH), confirmed by right heart catheterization, has been reported in association with Pulmonary afterial hypertension (PAH), commined by high rear control control and been reported in association who Dasatinib treatment. In these cases, PAH was reported after initiation of Dasatinib therapy, including after more than one year of treatment. Patients with PAH reported during Dasatinib treatment were often taking concomitant medication or had comorbidities in addition to the underlying malignancy. mmon congestive heart failure/cardiac dysfunction*d, pericardial effusion*, arrhythmia (including tachycardia), palpitations myocardial infarction (including fatal outcome)*, electrocardiogram QT rolonged*, pericarditis, ventricular arrhythmia (including ventricular tachycardia), angina pectoris, cardiomegaly, electrocardiogram T wave abnormal, troponin increased Patients should be evaluated for signs and symptoms of underlying cardiopulmonary disease prior to initiating auents should be evaluated for signs and symptoms of underlying calculophinotal y disease print of min asatinib therapy. Patients who develop dyspnea and fatigue after initiation of therapy should be evaluated ommon etiologies including pleural effusion, pulmonary edema, anemia, or lung infiltration. During this eval uidelines for non-hematologic adverse reactions should be followed [see Dosage and Administration (5.3)]. ration (5.3)]. If the advers cor pulmonale, myocarditis, acute coronary syndrome, cardiac arrest, electrocardiogram PR ion is severe, treatment must be withheld until the event has resolved or improved. If no alternative diagnosis is foun diagnosis of PAH should be considered. If PAH is confirmed, Dasatinib should be permanently discontinued. w up should be performed according to standard practice guidelines. Improvements in hemodynamic and clinical neters have been observed in Dasatinib-treated patients with PAH following cessation of Dasatinib therapy. prolongation, coronary artery disease, pleuroperica Not known atrial fibrillation/atrial flutter Vascular disorders ery common Haemorrhage" and fetal and infant anomalies from women who have taken Dasatinib during pregnancy. In nonclinical studies, at plasma concentrations below those observed in humans receiving therapeutic doses of dasatinib, embryo-fetal toxicities, includ skeletal malformations, were observed in rats and rabbits. Women of childbearing potential should be advised to avoid ommon hypertension, flushing hypotension, thrombophlebitis, thrombosi готтоп deep vein thrombosis, embolism, livedo reticulari Sexually active male or female patients of child bearing potential taking Dasatinib should use adequate contraception. Respiratory, thoracic, and mediastinal disorders If Dasatinib is used during pregnancy, or if the patient becomes pregnant while taking Dasatinib, the patient should be apprised of the potential hazard to the fetus. [see Use in Specific Populations (10.1)]. ommon pleural effusion*, dyspnoea pulmonary oedema*, pulmonary hypertension*, lung infiltration, pneumonitis, ough ividual cases of severe mucocutaneous dermatologic reactions, including Stevens-Johnson syndrome and erythema titforme, have been reported in patients treated with Dasatinib. Stevens-Johnson syndrome has been reported in t-marketing cases for which it could not be determined whether the reactions were directly related to Dasatinib or to comitant medications. Dasatinib should be permanently discontinued in patients who experience a severe mucorutaneous Uncommon pulmonary arterial hypertension, bronchospasm, asthma pulmonary embolism, acute respiratory distress syndrome Not known interstitial lung disease .9 Hepatitis B Virus Reactivation CR-ABL TKIs have been associated with hepatitis B virus (HBV) reactivation including individual case reports for Dasatin a some instances, HBV reactivation occurring in conjunction with other BCR-ABL TKIs resulted in acute hepatic failure or ulminant hepatitis leading to liver transplantation or a fatal outcome. Gastrointestinal disorder Verv common diarrhoea, vomiting, nausea, abdominal pain gastrointestinal bleeding*, colitis (including neutropenic colitis), gastritis, mucosal inflammation (including mucositis/stomatitis), dyspepsia, abdominal distension, constipation, oral soft tissue Screening for HBV should be considered in accordance with published guidelines before starting therapy with Dasatinib. Consultation with a physician with expertise in the treatment of HBV is recommended for patients who test positive for pancreatitis (including acute pancreatitis), upper gastrointestinal ulcer, oesophagitis, ascites*, anal fissure, dysphagia, gastroesophageal reflux disease ommon Patients who are carriers of HRV and require treatment with BCR-ARI_TKIs should be closely monitored for clinical and protein-losing gastroenteropathy, ileus, anal fistula bioratory signs of active HBV infection throughout therapy and for several months following termination of therapy. In atients who develop reactivation of HBV while receiving Dasatinib prompt consultation with a physician with expertise in Not known fatal gastrointestinal haemorrhage* 7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects on Growth and Development in Pediatric Patients
7.10 Effects
7.10 E Hepatobiliary disorders ommon hepatitis, cholecystitis, cholestasis i penante chars or based in or mainteresistent interest in the number phase in the trice penante is and penants and examine Intronic phase Ph+ CML pediatric patients after at least 2 years of treatment, treatment, related adverse events ith bone growth and development were reported in 6 (4.6%) patients, one of which was severe in intensity (Growt Skin and subcutaneous tissue disorders lation Grade 3). These 6 cases included cases of epiphyses delayed fusion, osteopenia, growth retardation, and omastia (see section 7.1). These results are difficult to interpret in the context of chronic diseases such as CML, and e long-term follow-up. erv common skin rash^f alopecia, dermatitis (including eczema), pruritus, acne, dry skin, urticaria, hype neutrophilic dermatosis, photosensitivity, pigmentation disorder, panniculitis, skin ulcer, bullous conditions, nail disorder, palmar-plantar erythrodysesthesia syndrome, hair disorder tric trials of Dasatinih in combination with chemotherany in newly diagnosed Ph+ ALL pediatric natients after a on of 2 years of treatment, treatment-related adverse events associated with bone growth and development were d in 1 (0.6%) patient. This case was a Grade 1 osteopenia. leukocytoclastic vasculitis, skin fibrosi lusculoskeletal and connective tissue disorders DASATINIB as single-agent therapy The data described below reflect the exposure to Dasatinib as single-agent therapy at all doses tested in clinical studies (N=2,90), including 324 adult patients with newly diagnosed chronic phase CML, 2,388 adult patients with imatinib-resistant or -intolerant chronic or advanced phase CML or Ph+ ALL, and 189 pediatric patients. In the 2,712 adult patients with either chronic phase CML, advanced phase CML or Ph+ ALL, and 180 pediatric patients. In the 2,712 adult patients with either chronic phase CML, advanced phase CML or Ph+ ALL, the median duration of therapy was 19.2 months (rage 0 to 93.2 months). In a randomized trial in patients with newly diagnosed chronic phase CML, the median duration of therapy was approximately 60 months. The median duration of therapy in 1,518 adult patients with advanced phase CML or Ph+ ALL was 6.2 months (rage 0 to 93.2 months). Among 188 patients in paediatric studies, the median duration of therapy was 26.3 months (range 0 to 93.6 months). Among 188 patients in pased CML Dasatinib-treated pediatric patients, which included patients receiving Dasatinib tablets and patients receiving a powder for oral suspension ery common musculoskeletal pair ommon arthralgia, myalgia, muscular weakness, musculoskeletal stiffness, muscle spasm ommon rhabdomyolysis, osteonecrosis, muscle inflammation, tendonitis, arthritis epiphyses delayed fusion^h, growth retardation^h Pregnancy, puerperium and perinatal conditions abortion Rare ients, which included patients receiving Dasatinib tablets and patients receiving a p of Dasatinib, the median duration of therapy was 42.3 months (range 0.1 to 99.6 m enal and urinary disorders ommon renal impairment (including renal failure), urinary frequency, proteinuri majority of Dasatinib-treated patients experienced adverse reactions at some time. In the overall population of 2,712 tinib-treated adult patients, 520 (19%) experienced adverse reactions leading to treatment discontinuation. known nephrotic syndrom The overall safety profile of Dasatinib in the pediatric chronic phase Ph+ CML population was similar to that of the adult population regardless of formulation with the excention of no reported pericardial effusion of purcease of the same section of the same sectio Reproductive system and breast disorder population regulates of normal adult, with the exception of metabolic population of the 130 Dasatinib-treated pediatric subjects with chr phase CML 2 (1.5%) experienced adverse reactions leading to treatment discontinuation. common gynecomastia, menstrual disorde General disorders and administration site conditions ery common peripheral edema¹, fatigue, pyrexia, face edema¹ Euclimitary of Newsiae Real LUBIS lowing adverse reactions, excluding laboratory abnormalities, were reported in patients treated with Dasatinib single-agent therapy in clinical studies and postmarketing experience (Table 6). These reactions are presented en organ class and by frequency. Frequencies are defined as: very common (21/10) to c1/10) non (21/1,000 to c1/100); rare (21/10,000 to c1/1,000); not known (cannot be estimated from available Common asthenia, pain, chest pain, generalized edema**, chills ncommon malaise, other superficial edema ncy grouping, undesirable effects are presented in order of decreasing serious gait disturbance Investigations ommon weight decreased, weight increased common blood creatine phosphokinase increased, gamma-glutamyltransferase Very common infection (including bacterial, viral, fungal, non-specified) Injury, poisoning, and procedural complications pneumonia (including bacterial, viral, and fungal), upper respiratory tract infection/inflammation, herpes virus infection (including cytomegalovirus - CMV), enteroco Common contusion Reported only in pediatric studies Reported only in pediatric studies: includes central nervous system hemorrhage, cerebral hematoma, cerebral hemorrhage, extradural hematoma, hemorrhagi intracranial, hemorrhagic stroke, subarachnoid hemorrhage, subdural hematoma, and subdural hemorrhage. includes brain natriuretic peptide increased, ventricular dysfunction, left ventricular dysfunction, right ventricular dysfunction, cardiac failure, cardiac failure acute, cardiac failure chronic, cardiac failure congestive, cardiomyopathy, congestive cardiomyopathy, diastolic dysfunction, ejection fraction decreased, ventricular failure, left ventricular fight ventricular failure, and ventricular hypokinesis. "Excludes gastrointestinal bleeding and CNS bleeding; these adverse reactions are reported under the gastrointestinal disorders system organ class and the nervous system disorders organ class, respectively. Includes failure enuntion, ervthema, ervthema multiforme, ervthorsis, exfoliative rash, enervalized ervthema, envital rash. Very common myelosuppresion (including anemia, neutropenia, thrombocytopenia Excludes gastionitestinian breaming and this breaming, these averages reactions are reported unlet the gastionitestini lisorders system organ class and the nervous system disorders organ class, respectively, Includes drug eruption, erythema, erythema multiforme, erythrosis, exfoliative rash, generalized erythema, genital ra react rash, milia, miliaria, pustular psoriasis, rash, rash reythematous, rash follicular, rash generalized, rash macular, rash naculopapular, rash papular, rash purtitic, rash pustular, rash vesicular, skin exfoliation, skin irritation, toxic skin erupti Indeclidipapular, tear papular, tear pointer, tear poin roduct. Reported only in pediatric studies. Frequency reported as common in pediatric studies vs rare in overall monotherapy population. gravitational edema, localized edema, edema peripheral 'conjunctival edema, eye edema, eye swelling, eyelid edema, face edema, lip oedema, macular edema, edema mouth, orbital edema, periorbitali edema, swelling face 'fluid overload, fluid retention, gastrointestinal edema, generalized edema, peripheral swelling (reported only in pediatric studies), edema, edema due to cardiac disease, perinephric effusion, post procedural edema, visceral edema. 'genital swelling, incison site edema, edema genital, penile edema, penile swelling, scrotal edema, skin swelling, testicular swelling univorarinal swelling inital swelling, incision site edema, edema genital, penile edema, penile swelli ielling, vulvovaginal swelling. or additional details, see section "Description of selected adverse reactions" ncommon tumor lysis syndrome, dehydration, hypoalbuminemia, hypercholesterolemi scription of selected adverse reactions quent in patients with advanced phase CML or Ph+ ALL than in chronic phase CML (see Warnings and Precautions (7.1)). ommon anxiety, confusional state, affect lability, libido decrease

eding drug-related events, ranging from petechiae and epistaxis to Grade 3 or 4 gastrointe eding, were reported in patients taking Dasatinih (see Warnings and Precautions (7.2)).

nuo reennon liscellaneous adverse reactions such as pleural effusion, ascites, pulmonary edema and pericardial effusion with or vithout superficial edema may be collectively described as "fluid retention". In the newly diagnosed chronic phase CML tudy after a minimum of 60 months follow-up, Dasatinib-related fluid retention events included pleural effusion (28% uperficial edema (14%), plumonary hypertension (5%), generalized edema (4%) and pericardial effusion (4%). Congesti eart failure/cardiac dysfunction and pulmonary edema were reported in <2% of patients. cumulative rate of Dasatinib-related pleural effusion (all Grades) over time was 10% at 12 months, 14% at 24 months, Biochemistry (2 year follow-up) median duration of Dasatinib-related pleural effusion (all Grades) was 283 days (~40 weeks e incline duration or beasumentenze presente instant (an unders) was 200 upp (140 WEEK). guaral effusion was usually reversible and managed by interrupting Dasatinib treatment and using diuretics or other propriate supportive care measures (see sections 4.2 and 4.4). Among dasatinib-treated patients with drug-related guaral effusion (n=73). 45 (65%) had dose interruptions and 30 (41%) had dose reductions. Additionally, 34 (47%) geived diuretics, 23 (32%) received corticosteroids, and 20 (27%) received both corticosteroids and diuretics. Nine (12 The percent of Dasadnillo-treated patients discontinued treatment due to drug-related pleural effusion. Pleural effusion did tot impair the ability of patients to obtain a response. Among the Dasatinib-treated patients with pleural effusion, 95% chieved a CCCyR, 82% achieved a MMR, and 50% achieved a MR4.5 despite dose interruptions or dose adjustment. or further information on patients with chronic phase CML and advanced phase CML or Ph+ ALL, see *Warnings and* recoursions (7.3). ients discontinued treatment due to drug-related pleural effusion. Pleural effusion did International Information (PAH), confirmed by right heart catheterization, has been reported in association with adinib exposure. In these cases, PAH was reported after initiation of dasatinib therapy, including after more than one year reatment. Patients with PAH reported during dasatinib treatment were often taking concomitant medications or had iorbidities in addition to the underlying malignancy. Improvements in haemodynamic and clinical parameters have been erved in patients with PAH following discontinuation of dasatinib. n the Phase III study in patients with newly diagnosed chronic phase CML, one patient (<1%) of the Dasa stients had a QTCF >500 msec after a minimum of 12 months follow- up [see Warnings and Precautions (7.4)]. No Iditional patients were reported to have QTCF >500 msec after a minimum of 60 months follow-up. In S Phase II clinical studies in patients with resistance or intolerance to prior imatinib therapy, repeated baseline and on-treatment ECGs were obtained at pre-specified time points and read centrally for 865 patients receiving Dasatinib 70 mg twice daily. QT interval was corrected for heart rate by Fridericia's method. At all post-dose time points on day 8, the mean the 2,182 patients with resistance or intolerance to prior imatinib therapy who received Dasatinib in clinical studies, the 2,182 patients with resistance or intolerance to prior imatinib therapy who received Dasatinib in clinical studies, to 2,182 patients with resistance or intolerance to prior imatinib therapy who received Dasatinib in clinical studies, to 2,182 patients with resistance or intolerance to prior imatinib therapy who received Dasatinib in clinical studies, to 2,182 patients an adverse reaction. Twenty-one patients (1%) experienced a QTcF >500 mset *[see Warnings and Precoutions (7.4)].* 4epaitis B reactivation has been reported in association with BCR-ABL TKIs. Some cases occurring in conjunction ther BCR-ABL TKIs resulted in acute hepatic failure or fulminant hepatitis leading to liver transplantation or a fatal see Warnings and Precautions (7.9)]. lepatitis B reactivation Cardiac adverse reaction ients with risk factors or a history of cardiac disease should be monitored carefully for signs or symptoms consistent sectinih in combination with chemotherapy Of the 126 Ph+ ALL pediatric patients on a continuous dosing regimen, 2 (1.6%) experienced adverse reactions leading ^a In the pivotal study, among 106 total patients, 24 patients received the powder for oral suspension at least once, 8 of lation exclusively atory test abnormalities 25 × 10⁹/L); anemia (her ematology and Biochemistry in patients with resistance or intolerance to prior imatinib thera n CML, cytopenias (thrombocytopenia, neutropenia, and anemia) were a consistent finding. However, the occurrence of cytopenias was also clearly dependent on the stage of the disease. The frequency of Grade 3 or 4 hematologic alities is presented in Table Table 9: CTC Grades 3/4 Hematological Laboratory Abnormalities in Clinical Studies in patients with resistance or

ith cardiac dysfunction and should be evaluated and treated appropriately [see Warnings and Precautions (7.5)].

Description in combination with chemotherapy Pediatric patients with Ph+ ALL In addition, there were two studies in a total of 161 pediatric patients with Ph+ ALL in which Dasatinib was administered in combination with chemotherapy. In the pivotal study, 106 pediatric patients received Dasatinib in combination with chemotherapy on a continuous dosing regimen. In a supportive study, of 55 pediatric patients, 35 received Dasatinib in combination with chemotherapy on a discontinuous dosing regimen. In a supportive study, of 55 pediatric patients, 35 received Dasatinib in combination with chemotherapy on a discontinuous dosing regimen. In we weeks on treatment followed by one to two weeks off) and 20 received Dasatinib in combination with chemotherapy on a continuous dosin regimen. Among the 126 Ph+ ALL pediatric patients treated with Dasatinib on a continuous dosing regimen, the median duration of therapy was 23.6 months (range 1.4 to 33 months).

reatment discontinuation. Adverse reactions reported in these two pediatric studies at a frequency of 210% in patie a continuous dosing regimen are shown in Table 7. Of note, pleural effusion was reported in 7 (5.6%) patients in s group, and is therefore not included in the table.

Table 7: Adverse reactions reported in ≥10% of pediatric patients with Ph+ ALL treated with Dasatinib on a continuous dosing regimen in combination with chemotherapy (N=126)³

Percent (%) of patients				
Adverse reaction	All Grades	Grade 3/4		
Febrile neutropenia	27.0	26.2		
Nausea	20.6	5.6		
Vomiting	20.6	4.8		
Abdominal pain	14.3	3.2		
Diarrhea	12.7	4.8		
Pyrexia	12.7	5.6		
Headache	11.1	4.8		
Decreased appetite	10.3	4.8		
Fatigue	10.3	0		

ents with newly diaanosed chronic phase CML lematology and Biochemistry in patients with newly diagnosed chronic phase CML he comparative frequency of Grade 3 and 4 laboratory abnormalities in patients with newly diagnosed chroni ML is presented in Table 8. There were no discontinuations of Dasatinib therapy due to these biochemical lat

Table 8: CTC Grade 3/4 Laboratory Abnormalities in a Phase III Study of Patients with Newly Diagnosed Chroni

	Dasatinib n= 258	lmatinib n= 258
	Percent (%)	of patients
Hematology parameters		
Neutropenia	29	24
Thrombocytopenia	22	14
Anemia	13	9
Biochemistry parameters		
Hypophosphatemia	7	31
Hypokalemia	0	3
Hypocalcemia	4	3
Elevated SGPT (ALT)	<1	2
Elevated SGOT (AST)	<1	1
Elevated bilirubin	1	0
Elevated creatinine	1	1

CTC Grades: neutropenia (Grade 3 >0.5 - <1.0 × 10⁹/l , Grade 4 <0.5 × 10⁹/l); thrombocytopenia (Grade 3 >25 - <50 × 10⁹/l loglobin Grade 3 ≥65 - <80 g/L, Grade 4 <65 g/L); elevated c Grade 3 + 25 + 10 r.L, anema (nemoglobin transp (ULN), Grade 4 > 5 + ULN); elevated bilinubin (Grade 3 > 3 - 10 × ULN, Grade 4 > 10 × ULN); elevated SGOT or SGPT (Grade 4 > 5 × ULN); elevated bilinubin (Grade 3 > 3 - 10 × ULN, Grade 4 > 10 × ULN); elevated SGOT or SGPT (Grade 3 > 5 - 20 × ULN, Grade 4 > 20 × ULN); hypocaleemia (Grade 3 < 7.0 - 6.0 mg/dL, Grade 4 < 6.0 mg/dL); hypophosphatemia (Grade 3 < 2.0 - 1.0 mg/dL, Grade 4 < 1.0 mg/dL); hypokalemia (Grade 3 < 3.0 - 2.5 mmol/L).

In Dasatinib-treated patients with newly diagnosed chronic phase CML who experienced Grade 3 or 4 myelos recovery generally occurred following brief does interruptions and/or reductions and permanent discontinuation of treatment occurred in 1.6% of patients after a minimum of 12 months follow-up. After a minimum of 60 months follow-up the cumulative rate of permanent discontinuation due to Grade 3 or 4 myelosuppression was 2.3%.

	Chronic Phase (n=165) ^b	Accelerated Phase (n=157) ^c	Myeloid Blast Phase (n=74) ^c	Lymphoid Blast Phase and Ph+ ALL (n=168) ^c				
Percent (%) of Patients								
Hematology Parameters								
Neutropenia 36 58 77 76								
Thrombocytopenia	23	63	78	74				
Anemia 13 47 74 44								
^o Phase 3 dose optimization study results reported at 2 year study follow up. ^b CA180-034 study results in recommended starting dose of 100 mg once daily.								

C1180-035 study results in recommended starting dose of 140 mg once daily TC Grades: neutropenia (Grade 3 ≥0.5 - <1.0 × 10⁹/L, Grade 4 <0.5 × 10⁹/L); th nenia (Grade 3 >25 - <50 ×

10⁹/L, Grade 4 <25 × 10⁹/L); anemia (hemoglobin Grade 3 265 - <80 g/L, Grade 4 <65 g/L).

Cumulative Grade 3 or 4 cytopenias among patients treated with 100 mg once daily were similar at 2 and 5 years including: neutropenia (35% vs. 36%), thrombocytopenia (23% vs. 24%) and anaemia (13% vs. 13%).

n patients who experienced Grade 3 or 4 myelosuppression, recovery generally occurred following dose interruptions and r reductions and permanent discontinuation of treatment occurred in 5% of patients. Most patients continued treatment

In ecumulative rate or usastimio-related pieural etrusion (all urages) over time was 10% at 22 months, 14% at 24 months, 24% at 48 months and 28% at 60 months. A total of 46 Dasatinib-treated patients had recurrent pleural fusions. Seventeen patients had 2 separate events, 6 had 3 events, 18 had 4 to 8 events and 5 had > 8 episodes of a term bedian time to first Dasatinib-related Grade 1 or 2 pleural effusions was 112 weeks (range: 4 to 299 mecks). Less than 10% of patients with pleural effusion betweet of arde 3 or 4 elevations of transaminases, creatinine, and bilirubin was 175 weeks (range: 14 to 274 weeks).

2 year follow-up: Grade 3 or 4 elevations of transaminase or bilirubin were reported in 1% of patients with chronic phase CML but elevation: were reported with an increased frequency of 1% to 7% of patients with advanced phase CML and Ph+ ALL. It was usually managed with dose reduction or interruption. In the Phase 3 dose-optimisation study in chronic phase CML, Grade 3 or 4 elevations of transaminases or bilirubin were reported in 1% of patients with similar low incidence in the four treatment groups. In the Phase 3 dose-optimisation study in advanced phase CML and Ph+ ALL, Grade 3 or 4 elevations of transaminases or bilirubin were reported in 1% to 5% of patients across treatment groups.

Approximately 5% of the Dasatinib-treated patients who had normal baseline levels experienced Grade 3 or 4 transient hypocalcemia at some time during the course of the study. In general, there was no association of decreased calcium with clinical symptoms. Patients developing Grade 3 or 4 hypocalcemia often had recovery with oral calcium supplementation. Grade 3 or 4 hypocalcemia, hypokalemia and hypophosphatemia were reported in patients with all phases of CML but were reported with an increased frequency in patients with myeloid or lymphoid blast phase CML and Ph+ ALL Grade 3 or 4 elevations in creatinine were reported in C1% of patients with thronic phase CML and were reported with an increased frequency of 1 to 4% of patients with advanced phase CML.

The safety profile of Dasatinib administered as single-agent therapy in paediatric patients with chronic phase Ph+ CML was comparable to the safety profile in adults.

The safety profile of Dasatinib administered in combination with chemotherapy in paediatric patier was consistent with the known safety profile of Dasatinib in adults and the expected effects of che exception of a lower pleural effusion rate in paediatric patients as compared to adults.

9 DRUG INTERACTIONS

9.1 Drugs That May Increase Dasatinib Plasma Concentrations

9.1 prugs That May Increase Dasatinib Plasma Concentrations CYP3A4 Inhibitors: Dasatinib is a CYP3A4 substrate. In a study of 18 patients with solid tumors, 20-mg Dasatinib once daily coadministered with 200 mg of ketoconazole twice daily increased the dasatinib C_{max} and AUC by four- and five-fold, respectively. Concomitant use of Dasatinib and drugs that inhibit CYP3A4 may increase exposure to dasatinib and should be avoided. In patients receiving treatment with Dasatinib, Lose monitoring for toxicity and a Dasatinib dose reduction should be considered if systemic administration of a potent CYP3A4 inhibitor cannot be avoided [see Dosage and Administration (5 1)] tration (5.1)].

9.2 Drugs That May Decrease Dasatinib Plasma Concentrations CYP3A4 Inducers: When a single morning dose of Dasatinib was administered following 8 days of continuous evening administration of 600 mg of rifampin, a potent CYP3A4 inducer, the mean C_{ans} and AUC of dasatinib were decreased by 81% and 82%, respectively. Alternative agents with less enzyme induction potential should be considered. If Dasatini must be administered with a CYP3A4 inducer, a dose increase in Dasatinib should be considered [see Dosage and Administration (5.1)1.

Antacids: Nonclinical data demonstrate that the solubility of Dasatinib is pH dependent. In a study of 24 healthy subjects, administration of 30 mL of aluminum hydroxide/magnesium hydroxide 2 hours prior to a single 50-mg dose of Dasatinib was associated with no relevant change in dasatinib AUC, however, the dasatinib C_{aux} increased 269 When 30 mL of aluminum hydroxide/magnesium hydroxide was administred to the same subjects concomitantly wi a 50-mg dose of Dasatinib, a 55% reduction in dasatinib AUC and a 58% reduction in C_{max} were observed. Simultaneous administration of Dasatinib with antacids should be avoided. If antacid therapy is needed, the antacid dose should be administered at least 2 hours prior to or 2 hours after the dose of Dasatinib.

H₂ Antagonists/Proton Pump Inhibitors: Long-term suppression of gastric acid secretion by H₂ antagonists or proton pump inhibitors (eg. famotidine and omeprazole) is likely to reduce dasatinib exposure. In a study of 24 healthy subject administration of a single 50-mg dose of Dasatinib 10 hours following famotidine reduced the AUC and C_{max} of dasatinib by 61% and 63%, respectively. In another study of 14 healthy subjects, administration of a single 100-mg dose of Dasatinib 25 hours following a 4-day. 40-mg omeprazole dose at steady state reduced the AUC of dasatinib by 43% and the C_{max} of dasatinib by 42%. The concomitant use of H₂ antagonists or proton pump inhibitors with Dasatinib is not recommended. The use of antacids should be considered in place of H₂ antagonists or proton pump inhibitors in patients receiving Dasatinib terave.

9.3 Drugs That May Have Their Plasma Concentration Altered By Dasatinib

5.3 orugs intal may have their relating concentration Altered by Udsatinio CYP3A4 Substrates: Single-close data from a study of 54 healthy subjects indicate that the mean C_{max} and AUC of sinvastatin, a CYP3A4 substrate, were increased by 37% and 20%, respectively, when sinvastatin was administer combination with a single 100-mg dose of Dasatinib. Therefore, CYP3A4 substrates known to have a narrow theraj index such as alfentanil, astemizole, terfenadine, cisapine, cyclospointe, fentany, pimozide, quinidine, sirolimus, ta or ergot alkaloids (ergotamine, dihydroergotamine) should be administered with caution in patients receiving Dasat or ergot alkaloids (ergotamine, dihvdro

10 LISE IN SPECIFIC POPULATIONS

10.1 Pregnancy Dasatinib can cause fetal harm when administered to a pregnant woman. There are no adequate and well-controlled studies of Dasatinib in pregnant women. However, there have been reports of spontaneous abortion and fetal and infant anomalies from women who have taken Dasatinib during pregnancy.

women of childhearing notential should be advised of the potential hazard to the fetus and to avoid becoming pregna Women of childbearing potential should be advised of the potential hazard to the fetus and to avoid becoming pregnant. Sexually active male or female patients of child bearing potential taking Dasatinib should use adequate contraception. If Dasatinib is used during pregnancy, or if the patient becomes pregnant while taking Dasatinib, the patient should be apprised of the potential hazard to the fetus. Based on human experience, dasatinib is suspected to cause congenital malformations including neural tube defects and harmful pharmacological effects on the fetus when administered during pregnancy. In nonclinical studies, at plasma concentrations below those observed in humans receiving therapeutic doses of dasatinib, embryo-fetal toxicities were observed in rats and rabbits. Fetal death was observed in rats. In both rats and rabbits, the lowest doses of dasatinib leset (rat 2.5 mg/kg/day [15 mg/m²/day] and 44 ng/hr/mL (0.1-fold the human AUC) in rats and rabbits, respectively. Embryo-fetal toxicities included skelatal matformations at multiple sites (scapula, humerus, femur, radius, ribs, clavicle), reduced ossification (sternum; thoracic, lumbar, and sacral vertebrae; forepaw phalanges; pelvis; and hyoid body), edema, and microhepatia.

10.2 Nursing Mothers

vn whether Dasatinib is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from Dasatinib, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

10 3 Pediatric Use

h+ CML in Chronic Phase he safety and effectivene ess of Dasatinib monotherapy have been demonstrated in pediatric patients with newly diagnosed chronic phase CML [see Clinical Studies (15)]. There are no data in children under 1 year of age. Adverse reactions associated with bone growth and development were reported [see Warnings and Precautions (7.10)].

wand effectiveness of Dasatinib in combination with chemotherapy have been dem one year and over with newly diagnosed Ph+ ALL. Use of Dasatinib in pediatric patients is supported by evidence from one pediatric study. There are no data in children under 1 year of age. One case of Grade 1 osteopenia was reported.

safety profile of Dasatinib in pediatric subjects was comparable to that reported in studies in adult subjects [see srse Reactions (θ) and Clinical Studies (15)].

Monitor bone growth and development in pediatric patients [see Warnings and Precautions (7.10)].

Pediatric Patients with Difficulty Swallowing Tablets Five patients with Ph+ ALL 2 to 10 years of age received at least one dose of Dasatinib tablet dispersed i CA180372. The exposure for dispersed tablets was 36% lower as compared to intact tablets in pediatric *Clinical Pharmacology* (13)). Due to the limited available clinical data, it is unclear whether dispersing Das significantly alters the safety and/or efficacy of Dasatinib.

10.4 Geriatric Use

10.4 Geriatric Use Of the 2712 patients in clinical studies of Dasatinib, 617 (23%) were 65 years of age and older, and 123 (5%) were 75 years of age and older. No differences in confirmed Complete Cytogenetic Response (cCCyR) and MMR were observed between older and younger patients. While the safety profile of Dasatinib in the geriatric population was similar to that in the younger population, patients aged 55 years and older are more likely to experience the commonly reported adverse reactions of fatigue, pleural effusion, dyspnea, cough, lower gastrointestinal hemorrhage, and appetite disturbance, and more likely to experience the less frequently reported adverse reactions of addominal distention, dizziness, pericardial effusion, congestive heart failure, and weight decrease, and should be monitored closely.

10.5 Hepatic Impairmen

airment on the pharmacokinetics of dasatinib was evaluated in healthy volunteers with normal er function and patients with moderate (Child-Pugh class B) and severe (Child-Pugh class C) hepatic impairment. Comparec the healthy volunteers with normal hepatic function, the dose normalized pharmacokinetic parameters were decreased ir

ended when administering Dasatinib to patients with hepatic impairment

LO.6 Renal Impairment

ted with Dasatinih in natients with decreased renal function (the study in natients with cal studies were conducted with Dasatinib in patients with decreased renal function (the study in patients with diagnosed chronic phase CML excluded patients with serum creatinine concentration >3 times the upper limit of mal range, and studies in patients with chronic phase CML with resistance or intolerance to prior imatinib therap ed patients with serum creatinine concentration >1.5 times the upper limit of the normal range). Since the renal arance of dasatinib and its metabolites is <4%, a decrease in total body clearance is not expected in patients with renal

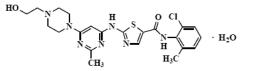
11. OVERDOSAGE

Experience with overdose of Dasatinib in clinical studies is limited to isolated cases. The highest overdose of 280 mg per tay for 1 week was reported in two patients and both developed severe myelosuppression and bleeding. Since Dasatinib a sascolated with severe myelosuppression [see *Warniggs and Precautions (7.1*) and *Adverse Reactions (8)*], Datients who ingest more than the recommended dosage should be closely monitored for myelosuppression and given appropriate

Acute overdose in animals was associated with cardiotoxicity. Evidence of cardiotoxicity included ventricular necrosis a valvular/ventricular/atrial hemorrhage at single doses $\geq 100 \text{ mg/kg}$ (600 mg/m²) in rodents. There was a tendency for increased systolic and diastolic blood pressure in monkeys at single doses $\geq 10 \text{ mg/kg}$ (120 mg/m²).

12. DESCRIPTION

Dasatinib is a kinase inhibitor. The chemical name for dasatinib is N-(2-chloro-6- methylphenyl)-2-[[6-[4-(2-hydroxyethyl)-1-piperazinyl]-2-methyl-4-pyrimidinyl]amino]-5- thiazolecarboxamide, monohydrate. The molecular formula is $C_{zz}H_{zc}[Nh,O_2S \rightarrow H,O)$, which corresponds to a formula weight of 506.02 (monohydrate). The anhydrous free base has a molecular weight of 488.01. Dasatinib has the following chemical structure:



atinib is a white to off-white powder. The drug substance is insoluble in water and slightly soluble in ethanol herband. Dasatinib tablets are white to off-white, biconvex, film-coated tablets containing dasatinib, with the following nactive ingredients: lactose monohydrate, microcrystalline cellulose, croscarmellose sodium, hydroxypropyl cellulose, and nagnesium stearate. The tablet coating consists of hypromellose, titanium dioxide, and polyethylene glycol.

13. CLINICAL PHARMACOLOGY

anism of Action nib, at nanomolar concentrations, inhibits the following kinases: BCR-ABL, SRC family (SRC, LCK, YES, FYN), c-KIT, EPHA2, and PDGFRB. Based on modeling studies, dasatinib is predicted to bind to

In vitro, dasatinib was active in leukemic cell lines representing variants of imatinib mesylate sensitive and resistant disease. Dasatinib inhibited the growth of chronic myeloid leukemia (CML) and acute lymphoblastic leukemia (ALL) cell I overexpressing BCR-ABL. Under the conditions of the assays, dasatinib was able to overcome imatinib resistance resulti from BCR-ABL kinase domain mutations, activation of alternate signaling pathways involving the SRC family kinas (LYN, HCK), and multi-drug resistance gene overexpression.

tions (C_{max}) of dasatinib are observed between 0.5 and 6 hours (T_{max}) follows Iministration. Dasatinib exhibits dose proportional increases in AUC and linear elimination nge of 15 mg to 240 mg/day. The overall mean terminal half-life of dasatinib is 3-5 hours

Data from a study of 54 healthy subjects administered a single, 100-mg dose of dasatinib 30 minutes following onsumption of a high-fat meal resulted in a 14% increase in the mean AUC of dasatinib. The observed food effects were

Inducion stients, dasatinib has an apparent volume of distribution of 2505 L, suggesting that the drug is extensively distributed le extravascular space. Binding of dasatinib and its active metabolite to human plasma proteins *in vitro* was oximately 96% and 93%, respectively, with no concentration dependence over the range of 100-500 ng/mL. in the extrav

curvision atinib is extensively metabolized in humans, primarily by the cytochrome P450 enzyme 3A4. CYP3A4 was the p yme responsible for the formation of the active metabolite. Flavin- containing monooxygenase 3 (FMO-3) and i nosphate-glucuronosyltransferase (UGT) enzymes are also involved in the formation of dasatinib metabolites.

oosure of the active metabolite, which is equipotent to dasatinib, represents approximately 5% of the dasatinib Al licates that the active metabolite of dasatinib is unlikely to play a major role in the observed pharmacology of the asatinib also had several other inactive oxidative metabolites. nately 5% of the dasatinib AU

Dasatinib is a weak time-dependent inhibitor of CYP3A4. At clinically relevant concentrations, dasatinib does not inhibit CYP1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, or 2E1. Dasatinib is not an inducer of human CYP enzymes.

ination ination is primarily via the feces. Following a single oral dose of [¹⁴C]-labeled dasatinib, approximately 4% and 85% of administered radioactivity was recovered in the urine and feces, respectively, within 10 days. Unchanged dasatinib unted for 0.1% and 19% of the administered dose in urine and feces, respectively, with the remainder of the dose

Effects Gender Pharmacokinetic analyses of demographic data indicate that there are no clinically relevant effects of gender on the

Paediatric Patients

The pharmacokinetics of dasatinib were evaluated in 43 pediatric patients with leukemia or solid tumors at oral doses The planmouth reduction to the solution of the planmouth planmouth of the planmouth reduction of the planmouth of the planmo geometric mean (CV%) steady-state plasma average concentrations of dasatinib were 14.7 (64.6%) ng/mL (for 2 to rears old), 16.3 (97.5%) ng/mL (for 6 to <12 years old), and 18.2 (67.7%) ng/mL (for 12 years and older) [see Doe and volume of distribution change with body weight in pediatric patients tinib has not been studied in patients < 1 year old.

The bioavailability of dispersed tablets in pediatric patients was estimated to be 36% lower than that of intact tablets.

Hepatic Impairment

atinib doses of 50 mg and 20 mg were evaluated in eight patients with moderate (Child-Pugh class B) and seven p with severe (Child-Pugh class C) hepatic impairment, respectively. Matched controls with normal hepatic function (n=15) were also evaluated and received a dasatinib dose of 70 mg. Compared to subjects with normal liver function, patients with moderate hepatic impairment had decreases in dose normalized C_{max} and AUC by 47% and 8%, respectively. Patients with severe hepatic impairment had dose normalized C_{max} decreased by 43% and AUC decreased by 28% compared to the

hese differences in C_{max} and AUC are not clinically relevant. Dose adjustment is not necessary in patients with hepatic

14. NONCLINICAL TOXICOLOGY

14. I Carcinogenesis, Mutagenesis, Impairment of Fertility 14.1 Carcinogenesis, Mutagenesis, Impairment of Fertility dose resulted in a plasma drug exposure (AUC) level generally equivalent to the human exposure at the recommended range of starting doses from 100 mg to 140 mg daily. A statistically significant increase in the combined incidence of squamous cell carcinomas and papillomas in the uterus and cervix of high-dose females and of prostate adenoma in low-dose ostate adenoma in low-dose nales was noted. The relevance of the findings from the rat carcinogenicity study for humans is not known

Dasatinib was clastogenic when tested *in vitro* in Chinese hamster ovary cells, with and without metabolic activatior Jasatinib was not mutagenic when tested in an *in vitro* bacterial cell assav (Ames test) and was not genotoxic in an

The effects of dasatinib on male and female fertility have not been studied. However, results of repeat-dose toxicity studies in multiple species indicate the potential for dasatinib to impair reproductive function and fertility. Effects evident in male animals included reduced size and secretion of seminal vesicles, and immature prostate, seminal vesicle, and testis. The administration of dasatinib resulted in uterine inflammation and mineralization in monkeys, and cystic ovaries and varian hypertronhy in rodents

15 CLINICAL STUDIES

Four single-arm, uncontrolled, open-label Phase 2 clinical studies were conducted to determine the safety and efficacy Four single-drift, uncontained, open-induer Priose 2 contract subsets were consorted to determine our sources yo of dostinib in patients with CML in chronic accelerated, or myeloid blast phase, who were either resistant or intolerant to imatinib. One randomized non-comparative study was conducted in chronic phase patients who failed initial treatmen with 400 or 600 mg imatinib. The starting dose was 70 mg dostinib twice daily. Dose modifications were allowed for improving activity or management of toxicity [see Dosage and Administration (5)].

Two randomised, open-label Phase 3 studies were conducted to evaluate the efficacy of dasatinib adm compared with dasatinib administered twice daily. In addition, one open-label, randomised, comparative Phase 3 study was conducted in adult patients with newly diagnosed chronic phase CML.

The efficacy of dasatinib is based on haematological and cytogenetic response rates

vo dosage adjustment is necessary in patients with hepatic impairment [see Clinical Pharmacology (13)]. Caution is Durability of response and estimated survival rates provide additional evidence of dasatinib clinical benefit.

A total of 2,712 patients were evaluated in clinical studies; of these 23% were 265 years of age and 5% were 275 years of age Chronic Phase CML - Newly Diagnosed

r randomised comparative Phase 3 study was conducted in adult patients wit An international open-label, multicenter, randomised, comparative Phase 3 study was conducted in adult patients with newly diagnosed chronic phase CML, Patients were randomised to receive either Dasatinib 100 mg once daily or imatinib 400 mg once daily. The primary endpoint was the rate of confirmed complete cytogenetic response (cCCyR) within 12 months. Secondary endpoints included time in cCCyR (measure of durability of response), time to cCCyR, major molecular response (MRP) rate, time to MMR, progression free survival (PFS) and overall survival (OS). Other relevant efficacy results included CCyR and complete molecular response (CMR) rates. The study is ongoing.

A total of 519 patients were randomised to a treatment group: 259 to Dasatinib and 260 to imatinib. Baseline ics were well balanced between the two treatment groups with respect to age (median age was 46 version the Dasatinib group and 49 years for the imatinib group with 10% and 11% of patients 65 years of age or older, respectively), gender (women 44% and 37%, respectively), and race (Caucasian 51% and 55%, stasian 42% and 37%, respectively). At baseline, the distribution of Hasford Scores was similar in the Dasatinib and imatinib treatment groups (low risk: 33% and 34%; intermediate risk: 48% and 47%, high risk: 19% and 19%, respectively).

With a minimum of 12 months follow-up, 85% of patients randomised to the Dasatinib group and 81% of patients randomised to the imatinib group were still receiving first-line treatment. Discontinuation within 12 months due to disease progression occurred in 3% of Dasatinib- treated patients and 5% of imatinib-treated patients.

With a minimum of 60 months follow-up. 60% of patients randomised to the Dasatinib group and 63% of patients ed to the imatinib group were still receiving first-line treatment. Discontinuation within i on occurred in 11% of Dasatinib - treated patients and 14% of imatinib-treated patients.

Efficacy results are presented in Table 10. A statistically significantly greater proportion of patients in the Dasatinib group achieved a cCCyR compared with patients in the imatinib group within the first 12 months of treatment. Efficacy of Dasatinib was consistently demonstrated across different subgroups, including age, gender, and baseline Hasford score.

Table 10: Efficacy Results in a Phase III study of Newly Diagnosed Patients with Chronic Phase CML Imatinih Dasatinih

	Dasatinib n= 259	Imatinib n= 260	p-value
		nse rate (95% CI)	
Cytogenetic response			
within 12 months			
cCCvR ^a	76.8% (71.2-81.8)	66.2% (60.1-71.9)	p <0.007*
CCvR ^b	85.3% (80.4-89.4)	73.5% (67.7-78.7)	p 10.007
within 24 month	05.5% (00.4-05.4)	/5.5% (07.7-70.7)	
cCCvR ^a	80.3%	74.2%	
CCvRb	87.3%	82.3%	
within 36 months	87.370	02.370	
cCCvR ^a	82.6%	77.3%	
CCvRb	88.0%	83.5%	
within 48 months	88.0%	05.5%	
cCCvR ^a	82.6%	78.5%	
CCVR ^b	82.6%	83.8%	
within 60 months	07.070	03.070	
	02.0%	78.5%	
cCCyR ^a CCyR ^b	83.0%	83.8%	
Major Molecular Respo		83.8%	
12 months	1	22.0% (20.1.20.0)	0.00002t
	52.1% (45.9-58.3)	33.8% (28.1-39.9)	p <0.00003*
24 months	64.5% (58.3-70.3)	50% (43.8-56.2)	
36 months	69.1% (63.1-74.7)	56.2% (49.9-62.3)	
48 months	75.7% (70.0-80.8)	62.7% (56.5-68.6)	
60 months	76.4%(70.8-81.5)	62.7% (56.5-68.6)	p = 0.0021
		ard Ratio (HR)	
	within 12	months (99.99% CI)	
Time to cCCyR		1.55 (1.0-2.3)	p <0.0001*
Time to MMR		2.01 (1.2-3.4)	p <0.0001*
Durability of cCCyR		0.7 (0.4-1.4)	p <0.035
	within 2	4 months (95% CI)	
Time to cCCyR		1.49 (1.22-1.82)	
Time to MMR		1.69 (1.34-2.12)	
Durability of cCCyR		0.77 (0.55-1.10)	
	within 3	6 months (95% CI)	
Time to cCCyR		1.48 (1.22-1.80)	
Time to MMR		1.59 (1.28-1.99)	
Durability of cCCyR		0.77 (0.53-1.11)	
	within 4	8 months (95% CI)	
Time to cCCyR		1.45 (1.20-1.77)	
Time to MMR		1.55 (1.26-1.91)	
Durability of cCCyR		0.81 (0.56-1.17)	
	within 6	0 months (95% CI)	
Time to cCCyR		1.46 (1.20-1.77)	p=0.0001
Time to MMR		1.54 (1.25-1.89)	p <0.0001
Durability of cCCyR		0.79 (0.55-1.13)	p=0.1983

togenetic response (cCCyR) is defined as a response noted on two consecutive occasion ^r (CCyR) is based on a single bone marrow cytogenetic evaluation. nose (at any time) was defined as BCR-ABL ratios ≤0.1% by RQ-PCR in peripheral blood samples

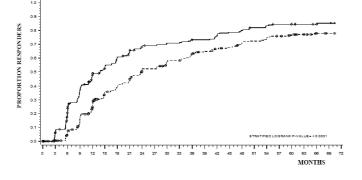
dized on the International scale. These are cumulative rates representing minimum follow-up for timeframe specified.

djusted for Hasford Score and indicated statistical significance at a pre-defined nominal level of significance.

group in patients with a confirmed CCyR. Median time to MMR after 60 months follow-up was 9.3 months in the imatinil group and 15.0 months in the imatinib group in patients with a MMR. These results are consistent with those seen at 12, 24 and 36 months. After 60 months of follow-up, median time to cCCvR was 3.1 months in the Dasatinih group and 5.8 months in the imatinih

The time to MMR is displayed graphically in Figure 1. The time to MMR was consistently shorter in Dasatinib-treated

Figure 1: Kaplan-Meier estimate of time to major molecular response (MMR)



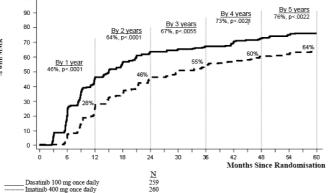
----- Imatinib ◎◎◎ Censored

GROUP	# RESPONDERS / # RANDOMIZED	HAZARD RATIO (95% CI)
DASATINIB	198/259	
IMATINIB	167/260	
DASATINIB OVER IMATINIB		1.54(1.25 - 1.89)

The rates of cCCyR in the Dasatinib and imatinib treatment groups, respectively, within 3 months (54% and 30%), 6 months (70% and 55%), 9 months (75% and 63%), 24 months (80% and 74%), 36 months (83% and 77%), 48 months (83% and 79%) and 60 months (83% and 79%) were consistent with the primary endpoint. The rates of MMR in the Dasatinib and imatinib treatment groups, respectively within 3 months (8% and 0.4%), 6 months (27% and 8%), 9 months (39% and 18%), 12 months (46% and 28%), 24 months (64% and 46%), 36 months (67% and 55%), 48 months (73% and 60%) and 60% months (76% and 64%) were also consistent with the primary endpoint

MR rates by specific timepoint are displayed graphically in Figure 2. Rates of MMR were consistently higher in dasatinib treated patients compared with imatinib-treated patients. Hedian duration of treatment was 23 months for dasatinib (with 44% of patients treated for >24 months to date). Ninety-three percent of patients in the dasatinib arm and 82% of patients in the imatinib arm achieved a CHR prior to crossover. [-6.8%-10.6%]; however, the 100 mg once daily regimen demonstrated improved safety and tolerability Efficacy results are presented in Tables 13 and 14.

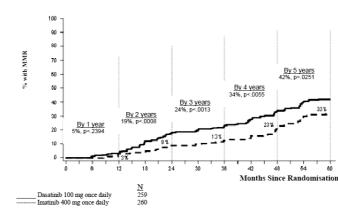
Figure 2: MMR Rates Over Time - All Randomised Patients in a Phase 3 Study of Newly Diagnosed Patients with



proportion of patients achieving BCR-ABL ratio of ≤0.01% (4-log reduction) at any time was higher in the Dasatinit o compared to the imatinib group (54.1% versus 45.0%). The proportion of patients achieving BCR- ABL ratio of)32% (4.5-log reduction) at any time was higher in the Dasatinib group compared to the imatinib group (44% versus

MR4.5 rates over time is displayed graphically in Figure 3, Rates of MR4.5 over time was consistently higher in Dasatinib eated patients compared with imatinib-treated i

Figure 3: MR4.5 Rates Over Time - All Randomised Patients in a Phase 3 Study of Newly Diagnose



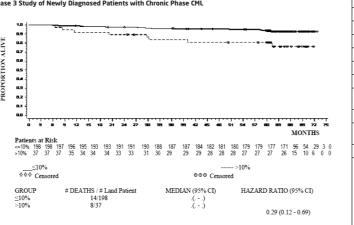
he rate of MMR at any time in each risk group determined by Hasford score was higher in the Dasatinib group compare ith the imatinib group (low risk: 90% and 69%; intermediate risk: 71% and 65%; high risk: 67% and 54%, respectively).

In an additional analysis more Dasatinib-treated natients (84%) achieved early molecular response (defined as BCR-ABI levels < 10% at 3 months) compared with imatinib-treated patients (64%). Patients achieving early molecular response had a lower risk of transformation, higher rate of progression-free survival (PFS) and higher rate of overall survival (OS), as shown in Table 11

Table 11: Dasatinib Patients with BCR-ABL ≤ 10% and > 10% at 3 Months

Dasatinib N = 235	Patients with BCR-ABL \leq 10% at 3 Months	Patients with BCR-ABL > 10% at 3 Months	
Number of Patients (%)	198 (84.3)	37 (15.7)	_ [
Transformation at 60 months, n/N (%)	6/198 (3.0)	5/37 (13.5)	
Rate of PFS at 60 Months (95% CI)	92.0% (89.6, 95.2)	73.8% (52.0, 86.8)	ł
Rate of OS at 60 Months (95% CI)	93.8% (89.3, 96.4)	80.6% (63.5, 90.2)	ŀ

Figure 4: Landmark Plot for Overall Survival for Dasatinib by BCR-ABL Level (≤ 10% or >10% at 3 Months in a Phase 3 Study of Newly Diagnosed Patients with Chronic Phase CML



Disease progression was defined as increasing white blood cells despite appropriate therapeutic management, loss of partial CyR or CCyR, progression to accelerated phase or blast phase, or death. The estimated 60-month PFS rate was 88 (CI: 84%-92.4%) and 90.9% (CI: 87.1%-94.6%) for the dasatinib and imatinub treatment groups, respectively. At 60 mon transformation to accelerated or blast phase occurred in fewer Dasatinib-treated patients (n=8; 3.1%) compared with Walshindow of experimentation of the second part of the second part

In patients who report disease progression or discontinue dasatinib or imatinib therapy, BCR- ABL sequencing was performed on blood samples from patients where these are available. Similar rates of mutation were observed in both the treatment arms. The mutations detected among the dasatinib-treated patients were T315I, F317L/L and V299L. A different spectrum of mutation was detected in the imatinib-treatment arm. Dasatinib does not appear to be active agains United and the presence of the provided on in vitro data. <u>Chronic Phase CML - Resistance or intolerance to prior imatinib therapy</u> Two clinical studies were conducted in patients resistant or intolerant to imatinib; the primary efficacy endpoint in these

studies was Major Cytogenetic Response (MCyR).

1- An open-label, randomised, non-comparative multicenter study was conducted in patients who failed initial treatment with 400 or 600 mg imatinib. They were randomised (2:1) to either dasatinib (70 mg twice daily), or imatinib (400 mg twice daily). Crossover to the alternative treatment am was allowed if patients showed evidence of disease progression or intolerance that could not be managed by dose modification. The primary endpoint was MCVR at 12 weeks. Results are available for 150 patients: 101 were randomised to dasatinib and 49 to imatinib (all imatinib resistant The median time from diagnosis to randomisation was 64 months in the dasatinib group and 52 months in the imatinib group. All patients were extensively pretreated. Prior complete haematologic response (CHR) to imatinib was achieved in 93% of the overall patient population. A prior MCVR to imatinib was achieved in 28% and 29% of the patients in the dasatinib and imatinib arms, respectively.

At 3 months, a MCvR occurred more often in the dasatinih arm (36%) than in the imatinih arm (29%). Notably, 22% of t 3 months, a MLVK occurred more often in the dasatinib arm (3%) than in the imatinib arm (2%). Notably, 22% of atients reported a complete cytogenetic response (CCVR) in the dasatinib arm while only 8% achieved a CCVR in the natinib arm. With longer treatment and follow-up (median of 24 months), MCVR was achieved in S3% of the dasatinib eated patients (CCVR in 44%) and 33% of the imatinib-treated patients (CCVR in 18%) prior to crossover. Among atients who had received imatinib 400 mg prior to study entry, MCVR was achieved in 61% of patients in the dasatinib and 50% in the imatinib arm.

Based on the Kaplan-Meier estimates, the proportion of patients who maintained MCyR for 1 year was 92% (95% Ct: [85%-100%]) for dasatinib (CCyR 97%, 95% Ct: [92%-100%]) and 74% (95% Ct: [49%-100%]) for imatinib (CCyR 100%). The proportion of patients who maintained MCyR for 18 months was 90% (95% Ct: [82%-98%]) for dasatinib (CCyR 94%, 95% Ct: [87%-100%]) and 74% (95% Ct: [49%-100%]) for imatinib (CCyR 100%).

Based on the Kaplan-Meier estimates, the proportion of patients who had progression-free survival (PFS) for 1 year wa 91% (95% Ct (85%-97%)) for dasatinib and 73% (95% Ct: [54%-91%)) for imatinib. The proportion of patients who had P 2 years was 86% (95% Ct: [78%-93%)) for dasatinib and 65% (95% Ct: [43%-87%)) for imatinib.

A total of 387 patients received dasatinib 70 mg twice daily (288 resistant and 99 intolerant). The median time from diagnosis to start of treatment was 61 months. The majority of the patients (53%) had received prior imatinib treatment for more than 3 years. Most resistant patients (72%) had received >600 mg imatinib. In addition to imatinib, 35% of patients had received prior cytotoxic chemotherapy, 65% had received prior interferon, and 10% had received a prior stem cell transplant. Thirty-eight percent of patients had baseline mutations known to confer imatinib resistance. Media prior treatment on dasatinib was 24 months with 51% of patients treated for >24 months todate. Efficacy results are reported in Table 14. MCyR was achieved in 55% of imatinib-resistant patients and 82% of imatinib-intolerant patients. With a minimum of 24 months follow-up, 21 of the 240 patients who had achieved a MCyR had progressed and the median duration of MCyR had not been reached. The median time to response for MCyR was 2.9 months (95% CI: 2.8 months, 3.5 months) in the pooled imatinib-resistant/ intolerant CP-CML patients. The median time to response for CCyR was 3.3 months (95% CI: 2.8 months, 4.7 months) in the pooled imatinib- resistant/intolerant CP-CML patients. The median time to response for MMR was 8.3 months (95% CI: 5.0 months, 11.8 months) in the pooled imatinib- resistant/intolerant (P-CML patients. CML): WBC & institutional ULN, platelets <450,000/mm3TP, no blasts or promyelocytes in peripheral blood, <5% myelo plus metamyelocytes in peripheral blood, basophils in peripheral blood <20%, and no extramedullary involvement. complete and partial responses ^d Major molecular responses.
^d Major molecular response criteria: Defined as BCR-ABL/control transcripts ≤0.1% by RO-PCR in peripheral blood samples.

Based on the Kaplan-Meier estimates, 95% (95% CI: [92%-98%]) of the patients maintained MCyR for 1 year and 88% based on the Repair Field estimation of the state of the state of the patients maintained Fight for 1 year and 05% CI: 83%-93%) maintained MCyR for 1 years. The proportion of patients who maintained CCyR for 1 year was 97% 95% CI: [86%-95%)). Forty-two percent of the imatinib-resistant patie with no prior MCyR to imatinib (n=188) achieved a MCyR with dasatinib.

here were 45 different BCR-ABL mutations in 38% of patients enrolled in this study. Complete haematologic response or MCyR was achieved in patients harbouring a variety of BCR-ABL mutations associated with imatinib resistance excep T3151. The rates of MCyR at 2 years were similar whether patients had any baseline BCR-ABL mutation, P-loop muta no mutation (63%, 61% and 62%, respectively).

Among imatinih-resistant natients, the estimated rate of PES was 88% (95% CF (84%-92%)) at 1, year, and, 75% (95% CI: [69%-81%]) at 2 years. Among imatinib-intolerant patients, the estimated rate of Pf [95%-100%]) at 1 year and 94% (95% CI: [88%-99%]) at 2 years.

Accelerated Phase CML

Accelerated Phase LPM. An open-label, single-arm, multicenter study was conducted in patients intolerant or resistant to imatinib. A total of 174 patients received dasatinib 70 mg twice daily (161 resistant and 13 intolerant to imatinib). The median time from diagnosis to start of treatment was 82 months. Median duration of treatment on dasatinib was 14 months with 31% of patients treated for >24 months to date. The rate of major molecular response (assessed in 41 patients with a CCyR) was 46% at 24 months. Further efficacy results are reported in Table 14. Mveloid Blast Phase CML

 Image: Myeloid Hiost Phase CML
 100% (100, 100)
 95% (88, 100)
 82% (70, 94)
 70% (52, 82)

 An open-label, single-arm, multicenter study was conducted in patients intolerant to imatinib). The median time from diagnosis to start of treatment was 48 months. Median duration of treatment on dastinib was 3.5 months with 12% of patients received dastinib months. The rate of major molecular response (assessed in 19 patients with a CCyR) was 68% at 24 months. Further efficacy results are reported in Table 14.
 100% (100, 100)
 95% (88, 100)
 82% (70, 94)
 70% (52, 82)
 100% (100, 100) 95% (88, 100) 82% (70, 94) 70% (52, 82) 16.1 How Supplied Dasathib-Teva FC tablets 20mg, 50mg and 70mg are available in 100mL HDPE bottles with PP child resistant closures with inner seal for induction sealing and one canister of desiccant (1g) pack of 60 tablets. **16.2 Storage** Store below 30°C

An open-label, single-arm, multicenter study was conducted in patients with lymphoid blast phase CML or Ph+ ALL who were resistant or intolerant to prior imatinib therapy. A total of 48 patients with lymphoid blast CML received dasatinib 70 mg twice daily (42 resistant and 6 intolerant to imatinib). The median time from diagnosis to start of treatment was 28 months. Median duration of treatment on dasatinib with 2% treated for >24 months to date. The rate of major molecular response (all 22 treated patients with a (CVR) was 50% at 24 months leaded to the addition of the start of the start of the addition of the start of the start of the addition of the start of the start of the addition of the start of the start of the addition of the start of the addition of the start of the addition of the start of the start of the addition of the start of the start of the start of the addition of the start of the start of the addition of the start of 16.3 Handling and Disposal edures for proper handling and disposal of anticancer drugs should be considered. Several guidelines on this subject Efficacy was also assessed in patients who were intolerant to imatinib. In this population of patients who received 100 mg once daily, MCyR was achieved in 77% and CCyR in 67%. have been published. was 28 months. Median duration of treatment on oasaturuu was 3 montes with 3 CVRV was 50% at 24 months. In addition, 46 rate of major molecular response (all 22 treated patients with a CVRV was 50% at 24 months. In addition, 46 patients with Phr ALL received dasaturib 70 mg twice daily (44 respiration and uration of treatment on dasaturib was 3 months. Median duration of treatment on dasaturib was 3 months with 7% of patients treated for >24 months. The rate of major molecular response (all 25 treated patients with a CVRV was 52% at 24 months. Further efficacy results are reported in Table 12. Of note, major haematologic responses (MaHR) was conducted and y and uration of treatment was approximately 6 months to additive (meet within 35 days of first dasatinib administration for patients with lymphoid blast CML, and within Dasatinib tablets consist of a core tablet (containing the active drug substance), surrounded by a film coating to prev exposure of pharmacy and clinical personnel to the active drug substance. However, if tablets are crushed or broken, pharmacy and clinical personnel should wear disposable chemotherapy gloves. Personnel who are pregnant should avoid sistant to or who were intolerant to imatinib, to evaluate the efficacy of Dasatinib administered once daily compared with exposure to crushed or broken tablets Le quickly (most within 35 days of first dasatinib adm. τ or quickly (most within 35 days of first dasatinib adm. **17. PATIENT COUNSELING INFORMATION**

tologic Respon 95% CI) 5% CI) NEL (95% CI) Duration of MaHR (%; k 1 Year 2 Years Cytogenetic Respon MCvR (95% CI) CCvR (95% CI) Survival (%; Kaplan-Progression-Free 1 Year

 1 real
 94% (91-97)
 72% (64-79)
 38% (27-50)
 26% (10-42)
 31% (16-47)
 In patients with myeloid blast phase CML treated with the 140 mg once daily regimen, the median duration of MaHR was 5 months, in patients with hymphoid blast phase CML treated with the 140 mg once daily regimen, the median duration of MaHR was 5 months, in patients with hymphoid blast phase CML treated with the 140 mg once daily regimen, the median duration of MaHR was 5 months, in patients with hymphoid blast phase CML treated with the 140 mg once daily regimen, the median duration of MaHR was 5 months, in patients with hymphoid blast phase CML treated with the 140 mg once daily regimen, the median duration of MaHR was 5 months, the median PFS was 5
 Patients should be informed that they may experience skill daily into a same of the patients should be informed that Dasatinib contains 26.3mg of lactose monohydrate in a 20mg tablet, 65.7mg of lactose monohydrate in a 70mg tablet.

 bers in bold font are the results of primary endpoints. matologic response criteria (all responses confirmed after 4 weeks): Major haematologic response (MaHR) pilete haematologic response (CHR) + no evidence of leukaemia (NEL). chronic CML): WBC 4 institutional ULN, platelets <450,000/mm³, no blasts or promyelocytes in peripheral blood, <5% (cytes plus metamyelocytes in peripheral blood, basophils in peripheral blood <20%, and no extramedullary involveme advanced CML/Ph+ ALL): WBC 5 institutional ULN, ANC 21,000/mm³, platelets ±210,000/mm³, no blasts or yelocytes in peripheral blood, bone marrow blasts <5%, <5% myelocytes plus metamyelocytes in peripheral blood

The primary endpoint was MCyR in imatinib-resistant patients. The main secondary endpoint was MCyR by total daily dose level in the imatinib-resistant patients. Other secondary endpoints included duration of MCyR, PFS, and overall survival. A total of 670 patients, of whom 497 were imatinib resistant, were randomized to the Dasatinib 100 mg once daily, 140 mg once daily. So mg twice daily or 00 mg twice daily group. The median duration of treatment for all patients still on therapy with a minimum of 5 years of follow-up (n=205) was 59 months (range 28-66 months). Median duration of treatment for a patients at 7 years of follow-up was 29.8 months (range <1 - 92.9 month

A total of 43% of the patients in the dasatinib arm, and 82% in the imatinib arm had treatment failure, defined as disease progression or crossover to the other treatment (lack of response, intolerance of study medicinal product, etc

The rate of major molecular response (defined as BCR-ABL/control transcripts ≤0.1% by RQ- PCR in peripheral blood samples) prior to crossover was 20% for destinib and 12% for impatials

2- An open-label, single-arm, multicenter study was conducted in patients resistant or intolerant to imatinib (ie.patients who experienced significant toxicity during treatment with imatinib that precluded further treatment).

The rate of major molecular response at 24 months was 45% (35% for imatinib-resistant patients and 74% for imatinib-

12: Efficacy in Phase 2 Dasatinib Single-Arm Clinical Studies

Chronic (n= 387)	Accelerated (n= 174)	Myeloid Blast (n= 109)	Lymphoid Blast (n= 48)	Ph+ ALL (n= 46)
nse Rate ⁶ (%)				
n/a	64% (57-72)	33% (24-43)	35% (22-51)	41% (27-57)
91% (88-94)	50% (42-58)	26% (18-35)	29% (17-44)	35% (21-50)
n/a	14% (10-21)	7% (3-14)	6% (1-17)	7% (1-18)
Kaplan-Meier Esti	mates)		-	
n/a	79% (71-87)	71% (55-87)	29% (3-56)	32% (8-56)
n/a	60% (50-70)	41% (21-60)	10% (0-28)	24% (2-47)
se ^c (%)				
62% (57-67)	40% (33-48)	34% (25-44)	52% (37-67)	57% (41-71)
54% (48-59)	33% (26-41)	27% (19-36)	46% (31-61)	54% (39-69)
Meier Estimates)		-	
91% (88-94)	64% (57-72)	35% (25-45)	14% (3-25)	21% (9-34)
80% (75-84)	46% (38-54)	20% (11-29)	5% (0-13)	12% (2-23)
97% (95-99)	83% (77-89)	48% (38-59)	30% (14-47)	35% (20-51)
0.49/ (01.07)	720((C 4 70)	2004 (27 50)	2004 (10, 42)	210/ (10 47)

promyelocytes in peripheral blood, bone marrow blasts 25%, 5% myelocytes plus metamyelocytes in peripheral blood basophils in peripheral blood <20%, and no extramedullary involvement. NEL: same criteria as for CHR but ANC 2500/mm³ and <1,000/mm³, or platelets 220,000/mm³ and <1,00,000/mm³. ^c Cytogenetic response criteria: complete (0% Ph+ metaphases) or partial (>0%-35%). MCyR (0%-35%) combines both complete and partial responses. n/a = not applicable. CI = confidence interval. ULN = upper limit of normal range.

he outcome of patients with bone marrow transplantation after dasatinib treatment has not been fully evaluated. Phase 3 clinical studies in patients with CML in chronic, accelerated, or myeloid blast phase, and Ph+ ALL who were resistant or intolerant to imatinib

resistant or intolerant to imatinib Two randomised, open-label studies were conducted to evaluate the efficacy of dasatinib administered once daily compared with dasatinib administered twice daily. Results described below are based on a minimum of 2 years and 7 years follow-up after the start of dasatinib therapy. 1- A randomized, open-label study was conducted in patients with chronic phase CML, whose disease was resistant to or who were intolerant to imatinib, to evaluate the efficacy of Dasatinib administered once daily compared with Dasatinib administered twice daily. Patients with significant cardia diseases including myocardial infarction within 6 months, congestive heart failure within 3 months, significant arrhythmias, or QTc prolongation were excluded from the study.

Efficacy was achieved across all Dasatinib treatment groups with the once-daily schedule demonstrating comparable efficacy (non-inferiority) to the twice-daily schedule on the primary efficacy endpoint (difference in MCyR 1.9%, 95% CI

All Patients	n=167
Imatinib-Resistant Patients	n=124
Hematologic Response Rate7TPbP7T (%) (95% CI)	
CHR	92% (86-95)
Cytogenetic Response ^{cT} (%) (95% CI)	
MCyR	
All Patients	63% (56-71)
Imatinib-Resistant Patients	59% (50-68)
CCyR	
All Patients	50% (42-58)
Imatinib-Resistant Patients	44% (35-53)
Major Molecular Response in Patients achieving CCy	RPdP (%) (95% CI)
All Patients	69% (58-79)
Imatinib-Resistant Patients	72% (58-83)

Table 14: Long Term Efficacy of DASATINIB in Phase 3 Dose Optimisation Study: Imatinib Resistant or Intolerant

	Minimum Follow-up Period			
	1 year	2 years	5 years	7 years
Major Molecular Response				
All patients	NA	37% (57/154)	44% (71/160)	46% (73/160)
Imatinib-resistant patients	NA	35% (41/117)	42% (50/120)	43% (51/120)
Imatinib-intolerant patients	NA	43% (16/37)	53% (21/40)	55% (22/40)
Progression-Free Survival ^b				
All patients	90% (86, 95)	80% (73, 87)	51% (41, 60)	42% (33, 51)
Imatinib-resistant patients	88% (82, 94)	77% (68, 85)	49% (39, 59)	39% (29, 49)
Imatinib-intolerant patients	97% (92, 100)	87% (76, 99)	56% (37, 76)	51% (32, 67)
Overall Survival				
All patients	96% (93, 99)	91% (86, 96)	78% (72, 85)	65% (56, 72)
Imatinib-resistant patients	94% (90, 98)	89% (84, 95)	77% (69, 85)	63% (53, 71)

efficacy endpoint (difference in MaHR 0.8%; 95% confidence interval [-7.1%-8.7%]), however, the 140 mg once daily regimen demonstrated improved safety and tolerability. Response rates are presented in Table 15.

Table 15: Efficacy of Dasatinib in Phase III Dose-Optimisation study: Advanced Phase CML	and Ph+ ALL (2 Year

	Accelerated	Myeloid Blast	Lymphoid Blast	Ph+ALL
	(n= 158)	(n= 75)	(n= 33)	(n= 40)
MaHR ^b	66%	28%	42%	38%
(95% CI)	(59-74)	(18-40)	(26-61)	(23-54)
CHR ⁶	47%	17%	21%	33%
(95% CI)	(40-56)	(10-28)	(9-39)	(19-49)
NEL ^b	19%	11%	21%	5%
(95% CI)	(13-26)	(5-20)	(9-39)	(1-17)
MCyR ^c	39%	28%	52%	70%
(95% CI)	(31-47)	(18-40)	(34-69)	(54-83)
CCyR	32%	17%	39%	50%
(95% CI)	(25-40)	(10-28)	(23-58)	(34-66)

^a Results reported in recommended starting dose of 140 mg once daily (see section 2).
 ^b Hematologic response criteria (all responses confirmed after 4 weeks): Major hematologic response (MaHR) = complete hematologic response (CHR) + no evidence of leukaemia (NEL).
 CHR: WBC S institutional ULN, ANC 2 1,000/mm², platelates 2 100,000/mm³, no blasts or promyelocytes in peripheral blood, bone marrow blasts 2 5%, < 5% myelocytes plus metamyelocytes in peripheral blood < 20%.

olle finantworks.com (1997) ind no extramedullary involvement. VEL'same criteria as for CHR but ANC ≥ 500/mm³ and < 1,000/mm³, or platelets ≥ 20,000/mm³ and ≤ 100,000/mm³. MCyR combines both complete (0% Ph+ metaphases) and partial (> 0%-35%) responses. CI = confidence interval; ULN = upper limit of normal range.

In patients with accelerated phase CML treated with the 140 mg regimen, the median duration of MaHR and the median overall survival was not reached and the median PFS was 25 months.

In patients with Ph+ ALL treated with the 140 mg once daily regimen, the median duration of MaHR was 5 months, the median PFS was 4 months, and the median overall survival was 7 months.

 CML in Poediatric Patients
 18. Manufacturer

 The efficacy of Dasatinib in pediatric patients was evaluated in two pediatric studies of 97 patients with chronic phase
 PLIVA CROATIA Ltd.,

 CML Among 97 patients with chronic phase CML treated in two pediatric studies, an open-label, non-randomized, single-arm trial (NC100306202) and an open-label, non-randomized, single-arm trial (NC100777036). S1p patients (seculsive)
 PLIVA CROATIA Ltd.,

 from the single-arm trial) had newly diagnosed chronic phase CML and 46 patients (17 from the dose-aranging trial and 29 from the single-arm trial) were treated with Dasatin to Irevious treatment with imatinib. Ninety-one of the 97 pediatric patients were treated with Dasatinib tablets 60 mg/m⁻¹ once daily (maximum dose of 100 mg once daily for patients with high BSA). Patients were treated until disease progression or unacceptable toxicity.
 Date of Revision: February 2023

Baseline demographic characteristics of the 46 imatinib resistant or intolerant patients were: median age 13.5 years (range 2 to 20 years), 78.3% White, 15.2% Asian, 4.4% Black, 2.2% other, and 52% female. Baseline characteristics of the 51 newly diagnosed patients were: median age 12.8 years (range 1.9 to 17.8 years), 60.8% White, 31.4% Asian, 5.9% Black, 2% Other, and 40% female. 2% Other and 49% female

Median duration of follow-up was 5.2 years (range 0.5 to 9.3 years) for the imatinib resistant or intolerant patients and 4 years (range 1.3 to 6.4 years) for the newly diagnosed patients, respectively. Efficacy results for the two pediatric studie re summarized in Table 18.

Table 16 shows increasing trend for response for CCyR, MCyR, and MMR across time (3 months to 24 months). The increasing trend in response for all three endpoints is seen in both the newly diagnosed and imatinib resistant or intolerant nations.

Table 16: Efficacy of DASATINIB in pediatric patients with CML-CP Cumulative response over time by minimu

tollow-up period					
	3 months	6 months	12 months	24 months	
CCyR (95% CI)					
Newly diagnosed	43.1%	66.7%	96.1%	96.1%	
(N = 51) ^a	(29.3, 57.8)	(52.1, 79.2)	(86.5, 99.5)	(86.5, 99.5)	
Prior imatinib	45.7%	71.7%	78.3%	82.6%	

(N = 46) ^b	(30.9, 61.0)	(56.5, 84.0)	(63.6, 89.1)	(68.6, 92.2)
MCyR (95% CI)				
Newly diagnosed	60.8%	90.2%	98.0%	98.0%
(N = 51) ^a	(46.1, 74.2)	(78.6, 96.7)	(89.6, 100)	(89.6, 100)
Prior imatinib	60.9%	82.6%	89.1%	89.1%
(N = 46) ^b	(45.4, 74.9)	(68.6, 92.2)	(76.4, 96.4)	(76.4, 96.4)
MMR (95% CI)				
Newly diagnosed	7.8%	31.4%	56.9%	74.5%
(N = 51) ^a	(2.2, 18.9)	(19.1, 45.9)	(42.2, 70.7)	(60.4, 85.7)
Prior imatinib	15.2%	26.1%	39.1%	52.2%
(N = 46) ^b	(6.3, 28.9)	(14.3, 41.1)	(25.1, 54.6)	(36.9, 67.1)

^a Patients from Phase II paediatric study of newly diagnosed CML-CP receiving oral tablet formulation
^b Patients from Phase I and Phase II paediatric studies of imatinib-resistant or intolerant CML-CP receiving oral tablet

With a median follow-up of 4.5 years in newly diagnosed patients, the median durations of CCyR, MCyR, MMR could not be estimated as more than half of the responding patients had not progressed at the time of data cut-off. Range of duration of response was (2.5+ to 6.65+ months for CCyR), (1.4 to 6.65+ months for MCyR), and (5.4+ to 7.2.5+ months for subject who achieved MMR by month 24 and 0.03+ to 7.2.5+ months for subjects who achieved MMR at any time), where '+' indicates a censored observation

With a median follow-up of 5.2 years in imatinib-resistant or - intolerant patients, the median durations of CCyR, MCyR, and MMR could not be estimated as more than half the responding patients had not progressed at the time of data cut-of Range of duration of response was (2.4 to 86.9 + months for CCyR), (2.4 to 86.9 + months for MCyR), and (2.6 + to 73.6 + months for MMR), where '+' indicates a censored observation.

The median time to response for MCyR was 3.0 months (95% CI: 2.8 months, 4.3 months) in the newly diagnosed treatment-naive CP-CML patients. The median time to response for CCyR was 5.5 months (95% CI: 3.0 months, 5.7 months) in the newly diagnosed treatment-naive CP- CML patients. The median time to response for MMR was 8.9 months (95% CI: 6.2 months, 11.7 months) in the newly diagnosed treatment-naïve CP-CML patients. In the Phase II pediatric study, 1 newly diagnosed patient and 2 imatinib-resistant or -intolerant patients progressed to blast phase CML.

<u>Ph+ALL in Pediatric patients with ALL</u> The efficacy of Dasatinib in combination with chemotherapy was evaluated in a single cohort of Study CA180372 (NCT01460160), a multicenter study of pediatric patients with newly diagnosed B-cell precursor Ph+ALL. Eighty-two patients received Dasatinib tablets at a daily dose of 60 mg/m² for up to 24 months, in combination with chemotherap The backbone chemotherapy regimen was the AIEOP-BFM ALL 2000 multi-agent chemotherapy protocol.

Patients had a median age of 10.4 years (range 2.6 to 17.9 years) and included 21 patients (25.6%) 2 to 6 years of age, 27 patients (32.9%) 7 to 12 years of age, and 34 patients (41.5%) 13 to 17 years of age. Eighty percent of patients were white, and 55% were male. Thirty-two patients (41%) had a white blood cell count (WBC) of 250,000/mcL at diagnosis, and 12 patients (42.0 %) and the patients (42.0 %)

Efficacy was established on the basis of 3-year event-free survival (EFS), defined as the time from the start of Dasatinib to ck of complete response at the end of the third high risk block, relapse, secondary malignancy, or death from any cause. he 3-year EFS rate for patients on Study CA180372 was 65.1% (95% CI: 53.6, 74.4). At the end of induction, 72 patients 87.8%) had a bone marrow with <5% lymphoblasts, and 77 patients (93.9%) a

The minimal residual disease (MRD) negativity rate assessed by Ig/TCR rearrangement was 74.4% by the end of consolidation in all treated patients. When this rate was based on the 70 patients with evaluable Ig/TCR assessment the estimate was 87.1%.

16. HOW SUPPLIED/STORAGE AND HANDLING

17.1 Bleeding Patients should be informed of the possibility of serious bleeding and to report immediately any signs or symptoms suggestive of haemorrhage (unusual bleeding or easy bruising).

17.2 Myelosuppression Patients should be informed of the possibility of developing low blood cell counts; they should be instructed to report immediately should fever develop, particularly in association with any suggestion of infection.

17.3 Fluid Retention Patients should be informed of the possibility of developing fluid retention (swelling, weight gain, or shortness of breath) and to seek medical att

17.4 Pregnancy Patients should be informed that dasatinib may cause fetal harm when administered to a pregnant woman. Women should be advised of the potential hazard to the fetus and to avoid becoming pregnant. If Dasatinib is used during pregnancy, or if the patient becomes pregnant while taking Dasatinib, the patient should be apprised of the potential hazard to the fetus (see Warnings and Precautions (7.7)).

17.5 Gastrointestinal Complaints Patients should be informed that they may experience nausea, vomiting or diarrhea with Dasatinib. If these symptoms are significant, they should seek medical attention.

17.6 Pain

ients should be informed that they may experience headache or musculoskeletal pain with Dasatinib. If these symptoms are significant, they should seek medical attention

17.7 Fatigue Patients should be informed that they may experience fatigue with Dasatinib. If this symptom is significant, they should

17.8 Rash Patients should be informed that they may experience skin rash with Dasatinib. If this symptom is significant, they should seek medical attention.

18. Manufacturer

