# Decitabine-Trima 50 mg/vial

FULL PRESCRIBING INFORMATION . NAME OF THE MEDICINAL PRODUCT

#### QUALITATIVE AND QUANTITATIVE COMPOSITION Each vial of powder for concentrate for solution for infusion contains

After reconstitution with 10 ml of water for injections, each ml of concentrate contains 5 mg of decitabine. Excipients with known effect

h vial contains 0.29 mmol sodium (E524) For the full list of excinients, see section 6.1.

## . PHARMACEUTICAL FORM

owder for concentrate for solution for infusion (powder for infusion). White to almost white lyophilized powder.

Following reconstitution: clear colorless solution, free from visible

#### CLINICAL PARTICULARS

## 4.1. Therapeutic Indications

Decitabine-Trima 50 mg/vial is indicated for the treatment of patients with myelodysplastic syndromes (MDS) including previously treated and untreated, de novo and secondary MDS of all French-American-British subtypes (refractory anemia, refractory anemia with ringed sideroblasts refractory anemia with excess blasts, refractory anemia with excess blasts in transformation, and chronic myelomonocytic leukemia) and termediate-1, Intermediate-2, and High-Risk International Prognostic Scoring System groups.

Decitabine-Trima 50 mg/vial is indicated for the treatment of adult patients with newly diagnosed de novo or secondary acute myeloid leukaemia (AML), according to the World Health Organisation (WHO) classification, who are not candidates for standard induction chemotherapy.

4.2. Posology and Method of Administration  $\label{lem:continuous} \textbf{Decitabine-Trima 50 mg/vial administration must be initiated under the}$ supervision of physicians experienced in the use of chemotherapeutic

## There are 2 regimens recommended for Decitabine-Trima 50 mg/yial

administration. A 5-Day dosing regimen in the treatment of AML, and a 3-Day or 5-Day dosing regimen in the treatment of MDS. Pre-medication for the prevention of nausea and vomiting is not routinely

recommended but may be administered if required. here are two regimens for Decitabine-Trima 50 mg/vial administration

for MDS. With either regimen It is recommended that patients be treated for a minimum of 4 cycles; however, a complete or partial response may take longer than 4 cycles.

Complete blood counts and platelet counts should be performed as needed to monitor response and toxicity, but at a minimum, prior to each cycle. Liver chemistries and serum creatinine should be obtained prior to initiation of treatment

In the AML Phase 3 study, the median time to response (complete remission [CR] or CR with incomplete platelet recovery [CRp]) was 4.3 months. In MDS, the median time to response (CR+PR) in the Phase 2 MDS studies with the 5-Day dosing regimen was 3.5 cycles. In the Phase 3 MDS study with the 3-Day dosing regimen, the median time to response was 3 cycles. Treatment may be continued as long as the patient shows response, continues to benefit or exhibits stable lisease, i.e., in the absence of overt progression.

If after 4 cycles, the patient's hematological values (e.g., platelet counts or absolute neutrophil count [ANC]), have not returned to pre-treatmen levels or if disease progression occurs (peripheral blast counts are increasing or bone marrow blast counts are worsening), the patien may be considered to be a non-responder and alternative therapeutic options to Decitabine-Trima 50 mg/vial should be considered.

4.2.1 Treatment Regimen – Option 1

Decitabine-Trima 50 mg/vial is administered at a dose of 15 mg/m<sup>2</sup> ous intravenous infusion over 3 hours repeate body surface by conti every 8 hours for 3 days. This cycle should be repeated every 6 weeks Patients may be premedicated with standard anti-emetic therapy. 4.2.2 Treatment Regimen - Option 2

Decitabine-Trima 50 mg/vial is administered at a dose of 20 mg/r continuous intravenous infusion over 1 hour repeated daily for 5 days. This cycle should be repeated every 4 weeks. Patients may be premedicated with standard anti-emetic therapy 4.2.3 Patients with Non-hematologic Toxicity

ollowing treatment with either Decitabine-Trima 50 mg/vial regimen if the following non-hematological toxicities occur, the next cycle of itabine-Trima 50 mg/vial therapy should be withheld until levels return to within the normal range or baseline:

Serum creatinine greater than or equal to 2 mg/dL. Serum glutamate pyruvate transaminase (SGPT) or alanine aminotransferase (ALT) or, total bilirubin greater than or equal to 2 times the upper limit of normal (LILN)

Active viral or bacterial infection that is not controlled by concomitant anti-infective therapy.

In a treatment cycle, Decitabine-Trima 50 mg/vial is administered at a dose of 20 mg/m² body surface area by intravenous infusion over 1 hour repeated daily for 5 consecutive days (i.e., a total of 5 doses ner treatment cycle) The total daily dose must not exceed 20 mg/r and the total dose per treatment cycle must not exceed 100 mg/m². If a dose is missed, treatment should be resumed as soon as possible.

The cycle should be repeated every 4 weeks depending on the patient's clinical response and observed toxicity. It is recommended that patients be treated for a minimum of 4 cycles; however, a complete or partial remission may take longer than 4 cycles to be obtained. Treatment may be continued as long as the patient shows response, continues to benefit or exhibits stable disease, i.e., in the absence of overt progression. If after 4 cycles, the patient's haematological values (e.g., platelet counts or absolute neutrophil count), have not returned to pre-treatment evels or if disease progression occurs (peripheral blast counts are increasing or bone marrow blast counts are worsening), the patient may be considered to be a non-responder and alternative therapeutic

options to Decitabine-Trima 50 mg/vial should be considered. Management of myelosuppression and associated complications uppression and adverse events related to myelosuppressi (thrombocytopenia, anaemia, neutropenia, and febrile neutropenia) are common in both treated and untreated patients with AML and MDS Complications of myelosuppression include infections and bleeding.

Treatment may be delayed at the discretion of the treating physician, if the patient experiences myelosuppression-associated complications,

strointestinal, genito-urinary, pulmonary with

Febrile neutropenia (temperature ≥ 38.5°C and absolute neutrophil count < 1.000/uL)

Active viral, bacterial or fungal infection (i.e., requiring intravenous anti-infectives or extensive supportive care)

and associated complications as described below:

platelets < 25,000/µL or any central nervous system haemorrhage) reatment with Decitabine-Trima 50 mg/vial may be resumed once these conditions have improved or have been stabilized with adequate reatment (anti-infective therapy, transfusions, or growth factors). n clinical studies, approximately one-third of patients receiving Decitabine-Trima 50 mg/vial required a dose-delay. Dose reduction

is not recommended In MDS

### 3-Day Dosing Regimen

Dose Regimen Modifications in the First 3 Cycles During the first cycles of treatment. Grade 3-4 cytopenias are common

ssion of MDS. Pre-treatment cytopenias may not improve until after Cycle 3.

For the first 3 cycles, to optimize patient benefit in the setting of moderate neutropenia (absolute neutrophil count < 1000/µL), all attempts should e made to maintain full dose treatment at the standard treatment cycle interval. Concomitant antimicrobial prophylaxis as per institutional guidelines can be administered until recovery of granulocytes to above 500/µL. Clinicians should also consider the need for early administration of growth factors during this time for the prevention or treatment of infections in patients with MDS.

Similarly, to optimize patient benefit in the setting of moderate thrombocytopenia (platelet count <25 000/ul.), all attempts should be made to maintain full dose treatment at the standard treatment cycle interval with concomitant administration of platelet transfusions case of bleeding event

### Dose Modifications After Cycle 3

If hematologic recovery (absolute neutrophil count ≥ 1,000/μL and platelets ≥ 50,000/μL) from a previous Decitabine-Trima 50 mg/vial reatment cycle with persistent cytopenia(s) being considered related drug administration, requires more than 6 weeks, then the next cycle of Decitabine-Trima 50 mg/vial therapy should be delayed and dosing reduced by the algorithm below. All dose reductions that occur should

remain in effect for the duration of the chemotherapy; there should be Recovery requiring more than 6, but less than 8 weeks - Decitabine Frima 50 mg/vial dosing to be delayed for up to 2 weeks and the dose reduced to 11 mg/m² every 8 hours (33 mg/m²/day, 99 mg/m²/cycle) upon restarting therapy.

Recovery requiring more than 8, but less than 10 weeks - the Decitabine-Trima 50 mg/vial dose should be delaved up to 2 more weeks and the dose reduced to 11 mg/m² every 8 hours (33 mg/m²/day, 99 mg/m²/cycle) upon restarting therapy, then maintained in bsequent cycles as clinically indicated.

Recovery requiring more than 10 weeks - Patient should be discontinued from the treatment of the drug and assessed for disease progression (by bone marrow aspirate) within 7 days after the end of 10 weeks. However, for patients who have been treated for at least 6 cycles, and who continue to derive benefit from the therapy, a prolonged delay beyond 10 weeks can be allowed in the absence of progression at the direction of the treating physician.

#### 5-Dav Dosina Reaimen nmended in this clinical setting to optimize

patient benefit, dose should be delayed as follows:

Dose Regimen Modifications in the first 3 Cycles During the first cycles of treatment, Grade 3 and - 4 cytopenias are common and may not represent progression of MDS. Pre-treatment

openias may not improve until after Cycle 3.

For the first 3 cycles, to optimize patient benefit in the setting of moderate. eutropenia (absolute neutrophil count < 1000/μL), all attempts should be made to maintain full dose treatment at the standard treatment cycle guidelines can be administered until recovery of granulocytes to above 500/µL. Clinicians should also consider the need for early administration of growth factors during this time for the prevention or treatment of nfections in patients with MDS

Similarly, to optimize patient benefit in the setting of moderate prombocytopenia (platelet count <25.000/uL), all attempts should e made to maintain full dose treatment at the standard treatment cycle interval with concomitant administration of platelet transfusions case of bleeding events.

Dose Regimen Modifications after Cycle 3

lose should be delayed in case of the following toxicities considered to be at least possibly related to the treatment: Severe myelosuppression-associated complications (infections not

resolving with adequate anti-infective therapy, bleeding not resolving Prolonged myelosuppression defined as a hypocellular marrow

5% or less cellularity) without evidence of disease progression or 6 weeks or more after the start of a course of therapy. recovery (absolute neutrophil count >1,000/μL and platelets >50 000/ul ) requires more than 8 weeks, the nationt should be

scontinued from the treatment of drug and assessed for disease rogression (by bone marrow aspirate) within 7 days after the end of eeks. For patients who have been treated for at least 6 cycles, and the continue to derive benefit from the therapy, a prolonged delay beyond 8 weeks can be allowed, in the absence of progression, at the discretion of the treating physician.

#### Special Populations: aediatric population

he safety and efficacy of Decitabine-Trima 50 mg/vial in children aged < 18 years have not yet been established. No data are available.

## **Hepatic** impairment

in patients with hepatic impairment have not been conducted. The need for dose adjustment in patients with hepatic impairment has not been evaluated. Decitabine-Trima 50 mg/vial should be used with caution in these patients. If worsening hepatic function occurs, patients should be carefully monitored (see sections 4.4 and 5.2).

tudies in patients with renal impairment have not been conducted ecitabine-Trima 50 mg/vial should be used with caution in these

The need for dose adjustment in patients with renal impairment has not been evaluated (see sections 4.4 and 5.2). The use of Decitabine-Trima 50 mg/vial in patients with renal or hepatic impairment has not been established. Caution should be exercised in the administration of Decitabine-Trima 50 mg/vial to patients with

nepatic or renal impairment and patients should be monitored closely

#### for signs of toxicity. Geriatric Use

f the total number of MDS patients exposed to Decitabine-Trima 50 mg/vial in the controlled clinical trial, 61 of 83 patients were age 65 nd over, while 21 of 83 patients were age 75 and over. No overall differences in safety or effectiveness were observed between these bjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and ounger patients, but greater sensitivity of some older individuals annot be ruled out.

## Method of Administration

citabine-Trima 50 mg/vial is administered by intravenous infusion. A central venous catheter is not required. For instructions on reconstitution and dilution of the medicinal product before administration, see section

### 1.3. Contraindications

Hypersensitivity to decitabine or to any of the excipients, listed in section 6.1. Breast feeding (see warnings and precautions)

# .4. Special Warnings and Special Precautions for Use

infections and bleeding that occur in patients with MDS or AML may be exacerbated with Decitabine-Trima 50 mg/vial treatment. Therefore, patients are at increased risk for severe infections (due to any pathogen uch as bacterial, fungal and viral), with potentially fatal outcome (see section 4.8). Patients should be monitored for signs and symptoms of nfection and treated promptly.

In AML clinical studies, the majority of patients had baseline Grade 3/4 nyelosuppression. In patients with baseline Grade 2 abnormalities, worsening of myelosuppression was seen in most patients and more requently than in patients with baseline Grade 1 or 0 abnormalities. Myelosuppression caused by Decitabine-Trima 50 mg/vial is reversible. nplete blood and platelet counts should be performed regularly, as clinically indicated and prior to each treatment cycle. In the presence of suppression or its complications, treatment with Decitabine-Trima 0 mg/vial may be interrupted and/or supportive measures instituted e sections 4.2 and 4.8).

n MDS studies. Fatal and serious myelosuppression occurs in decitabine 0 mg/vial-treated patients. Myelosuppression (anemia, neutropenia, nd thrombocytopenia) is the most frequent cause of decitabine mg/vial dose reduction, delay, and discontinuation. Neutropenia o any grade occurred in 90% of decitabine 50 mg/vial-treated patients with grade 3 or 4 occurring in 87% of patients. Grade 3 or 4 febrile neutropenia occurred in 23% of patients. Thrombocytopenia of any grade occurred in 89% of patients with grade 3 or 4 occurring in 85% of patients. Anemia of any grade occurred in 82% of patients. Perform mplete blood count with platelets at baseline, prior to each cycle, and as needed to monitor response and toxicity. Manage toxicity using dose-delay, dose-reduction, growth factors, and anti-infective therapies as needed [see Posology and Method of Administration (4.2). Myelosuppression and worsening neutropenia may occur more frequently in the first or second treatment cycles and may not necessarily indicate progression of underlying MDS.

In MDS Based on findings from human data, animal studies and its mechanism of action, decitabine 50 mg/vial can cause fetal harm when administered to a pregnant woman [see Preclinical Safety Data (5.3)]. In preclinical studies in mice and rats, decitabine caused adverse developmental outcomes including embryo-fetal lethality and alformations. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception while receiving Decitabine-Trima 50 mg/vial and for 6 months followin the last dose. Advise males with female partners of reproductive potentia use effective contraception while receiving treatment with Decitabine ma 50 mg/vial and for 3 months following the last dose [see Fertility, Pregnancy and lactation 4.6)].

## Respiratory, thoracic and mediastinal disorders

Cases of interstitial lung disease (ILD) (including pulmonary infiltrates, organizing pneumonia and pulmonary fibrosis) without signs of infectious etiology have been reported in patients receiving decitabine. Careful assessment of patients with an acute onset or unexplained worsening of pulmonary symptoms should be performed to exclude ILD. If ILD is confirmed, appropriate treatment should be initiated (see section 4.8). Hepatic impairment

se in patients with hepatic impairment has not been established Caution should be exercised in the administration of Decitabine-Trima mg/vial to patients with hepatic impairment and in patients who develop signs or symptoms of hepatic impairment. Liver function tests should be performed prior to initiation of therapy and prior to each reatment cycle, and as clinically indicated (see sections 4.2 and 5.2). Renal impairment

Use in patients with severe renal impairment has not been studied Caution should be exercised in the administration of Decitabine-Trima 50 ng/vial to patients with severe renal impairment (Creatinine Clearance [CrCl] <30 ml/min) and these patients should be monitored closely see section 4.2). Renal function tests should be performed prior to initiation of therapy and prior to each treatment cycle, and as clinically indicated (see section 4.2).

## Cardiac disease

Patients with a history of severe congestive heart failure or clinically unstable cardiac disease were excluded from clinical studies and therefore the safety and efficacy of Decitabine-Trima 50 mg/vial in these patients has not been established. Cases of cardiomyopathy with cardiac decompensation, in some cases reversible after treatment discontinuation, dose reduction or corrective treatment, have been reported in the postmarketing setting. Patients, especially those with ardiac disease history, should be monitored for signs and symptoms of heart failure.

<u>Differentiation syndrome</u> ases of differentiation syndrome (also known as retinoic acid syndrome) have been reported in patients receiving decitabine. Differentiation syndrome may be fatal (see section 4.8). Treatment with high-dose IV oids and haemodynamic monitoring should be considered a rst onset of symptoms or signs suggestive of differentiation syndrome. Temporary discontinuation of Decitabine-Trima 50 mg/vial should be considered until resolution of symptoms and if resumed, caution is

This medicine contains 0.5 mmol potassium per vial. After reconstitution and dilution of the solution for intravenous infusion, this medicine contains less than 1 mmol (39 mg) of potassium per dose, i.e. essentially

This medicine contains 0.29 mmol sodium per vial. After reconstitution and dilution of the solution for intravenous infusion, this medicine contains between 13.8 mg-138 mg (0.6-6 mmol) sodium per dose (depending on the infusion fluid for dilution), equivalent to 0.7-7% of the mmended maximum daily intake of 2 g sodium for an adult. 4.5. Interactions with Other Medicinal Products and Other Forms

# No formal clinical drug interaction studies with decitabine have been

There is the potential for a drug-drug interaction with other agents phosphokinase activities) and/or metabolized by enzymes implicated n the inactivation of decitabine (e.g., cytidine deaminase). Therefore, caution should be exercised if these active substances are combined with Decitabine-Trima 50 mg/vial.

Impact of co-administered medicinal products on decitabine rome (CYP) 450-mediated metabolic interactions are not anticipated as decitabine metabolism is not mediated by this system but by oxidative deamination.

Impact of decitabine on co-administered medicinal products unlikely to displace co-administered medicinal products from their Decitabine has been shown to be a weak inhibitor of P-op mediated

t in vitro and is therefore also not expected to affect P-gp mediated transport of co-administered medicinal products (see section 5.2). 4.6. Fertility, Pregnancy and lactation The use of Decitabine-Trima 50 mg/vial with hormonal contraceptives

has not been studied.

Women of childbearing potential/Contraception in men and women Decitabine-Trima 50 mg/vial can cause fetal harm when administered to pregnant women. Due to the genotoxic potential of decitabine (see section 5.3), women of childbearing potential must use effective contraceptive measures and avoid becoming pregnant while being treated with Decitabine-Trima 50 mg/vial and for 6 months following completion of treatment Men should use effective contraceptive measures and be advised to not father a child while receiving Decitabine-Trima 50 mg/vial, and for 3 months following completion of treatment (see section 5.3).

There are no adequate data on the use of Decitabine-Trima 50 mg/vial in pregnant women. Studies have shown that decitabine is teratogenic in rats and mice (see section 5.3). The potential risk for humans is unknown. Based on results from animal studies and its mechanism of action, Decitabine-Trima 50 mg/vial should not be used during pregnancy and in women of childbearing potential not using effective contraception. A pregnancy test should be performed on all women of hildbearing potential before treatment is started. If Decitabine-Trim 50 mg/vial is used during pregnancy, or if a patient becomes pregnant while receiving this medicinal product, the patient should be apprised of the potential hazard to the foetus.

#### Breast-feeding t is not known whether decitabine or its metabolites are excreted in

breast milk. Decitabine-Trima 50 mg/vial is contraindicated during breast-feeding; therefore, if treatment with this medicine is required, breast-feeding must be discontinued (see section 4.3). No human data on the effect of decitabine on fertility are available non-clinical animal studies, decitabine alters male fertility and is

## should seek consultation regarding oocyte cryopreservation prior to initiation of treatment with Decitabine-Trima 50 mg/vial. 4.7. Effects on Ability to Drive and Use Machines

mutagenic. Because of the possibility of infertility as a consequence

of Decitabine-Trima 50 mg/vial therapy, men should seek advice on conservation of sperm and female patients of childbearing potential

Decitabine-Trima 50 mg/vial has moderate influence on the ability to drive and use machines. Patients should be advised that they may experience undesirable effects such as anemia during treatment. Therefore, caution should be recommended when driving a car or Rigors operating machines. Edema I

### 4.8. Undesirable Effects Clinical Studies Experience

Discussion of Adverse Reactions Information

Because clinical trials are conducted under widely varying conditions dverse reaction rates observed in the clinical trials of a drug cannot

be directly compared to rates in the clinical trials of another drug and Most Common Adverse Reactions: neutropenia, thrombocytopenia anemia, fatigue, pyrexia, nausea, cough, petechiae, constipation, diarrhea, and hyperglycemia.

Adverse Reactions Most Frequently (≥ 1%) Resulting in Clinical Intervention and or Dose Modification in the

Controlled Supportive Care Study in the decitabine 50 mg/vial Arm: Discontinuation: thrombocytopenia, neutropenia, pneumonia, Mycobacterium avium complex infection, cardio-respiratory arrest reased blood bilirubin, intracranial hemorrhage, abnormal live function tests.

Dose Delayed: neutropenia, pulmonary edema, atrial fibrillation, Hepato central line infection, febrile neutropenia.

Dose Reduced: neutropenia, thrombocytopenia, anemia, lethargy, edema, tachycardia, depression, pharyngitis.

tudies (N = 66, N = 98, N = 99) and 1 controlled supportive care study (N = 83 decitabine 50 mg/vial, N = 81 supportive care). The data described below reflect exposure to decitabine 50 mg/vial in 83 patients in the MDS trial. In the trial, patients received 15 mg/m<sup>2</sup> intravenously 8 hours for 3 days every 6 weeks. The median number of decitabine 50 mg/vial cycles was 3 (range 0 to 9). Table 1 presents all adverse events regardless of causality occurring

The safety of decitabine 50 mg/vial was studied in 3 single-arm

in at least 5% of patients in the decitabine 50 mg/vial group and at a Table 1 Adverse Events Reported in > 5% of Patients in the

decitabine 50 mg/vial Group and at a Rate Greater than

Supportive Care in the Controlled Trial in MDS

	50 mg/vial N = 83 (%)	Care N = 81 (%)	Transfusion reaction	6 (7)
Blood and lymphatic syste	. ,	14 = 01 (70)	Abrasion NOS	4 (5)
		F0 (70)	Investigations	
Neutropenia	75 (90)	58 (72)	Cardiac murmur NOS	13 (16
Thrombocytopenia	74 (89)	64 (79)	Blood alkaline phosphatase	<u> </u>
Anemia NOS	68 (82)	60 (74)	NOS increased	9 (11)
Febrile neutropenia	24 (29)	5 (6)	Aspartate aminotransferase	0 (10)
Leukopenia NOS	23 (28)	11 (14)	increased	8 (10)
Lymphadenopathy	10 (12)	6 (7)	Blood urea increased	8 (10)
Thrombocythemia	4 (5)	1 (1)	Blood lactate dehydrogenase	7 (8)
Cardiac disorders			Increased	` ′
Pulmonary edema NOS	5 (6)	0 (0)	Blood albumin decreased	6 (7)
Eye disorders			Blood bicarbonate increased	5 (6)
Vision blurred	5 (6)	0 (0)	Blood chloride decreased	5 (6)
Gastrointestinal disorders		0 (0)	Protein total decreased	4 (5)
Nausea	35 (42)	13 (16)	Blood bicarbonate decreased	4 (5)
	` ′	<u> </u>	Blood bilirubin decreased	4 (5)
Constipation	29 (35)	11 (14)	Metabolism and nutrition dis	orders
Diarrhea NOS	28 (34)	13 (16)	Hyperglycemia NOS	27 (33
Vomiting NOS	21 (25)	7 (9)	7. 07	+ `
Abdominal pain NOS	12 (14)	5 (6)	Hypoalbuminemia	20 (24
•			Hypomagnesemia	20 (24

Oral mucosal petechiae	11 (13)	4 (5)	Hypokalemia	18 (22)	10 (
Stomatitis	10 (12)	5 (6)	Hyponatremia	16 (19)	13 (
Dyspepsia	10 (12)	1 (1)	Appetite decreased NOS	13 (16)	12 (
Ascites	8 (10)	2 (2)	Anorexia	13 (16)	8 (10
Gingival bleeding	7 (8)	5 (6)	Hyperkalemia	11 (13)	3 (4)
Hemorrhoids	7 (8)	3 (4)	Dehydration	5 (6)	4 (5)
Loose stools	6 (7)	3 (4)	Musculoskeletal and conne	ective tissue di	sorders
Tongue ulceration	6 (7)	2 (2)	Arthralgia	17 (20)	8 (10
Dysphagia	5 (6)	2 (2)	Pain in limb	16 (19)	8 (10
Oral soft tissue disorder NOS	5 (6)	1 (1)	Back pain Chest wall pain	14 (17) 6 (7)	5 (6) 1 (1)
Lip ulceration	4 (5)	3 (4)	Musculoskeletal		
Abdominal distension	4 (5)	1 (1)	discomfort	5 (6)	0 (0)
Abdominal pain upper	4 (5)	1 (1)	Myalgia	4 (5)	1 (1)
Gastro-esophageal reflux	4 (5)	0 (0)	Nervous system disorders		
Disease		. ,	Headache	23 (28)	11 (1
Glossodynia	4 (5)	0 (0)	Dizziness	15 (18)	10 (1
General disorders and adn			Hypoesthesia	9 (11)	1 (1)
Pyrexia	44 (53)	23 (28)	Psychiatric disorders		
Edema peripheral	21 (25)	13 (16)	Insomnia	23 (28)	11 (1
Rigors	18 (22)	14 (17)	Confusional state	10 (12)	3 (4)
Edema NOS	15 (18)	5 (6)	Anxiety	9 (11)	8 (10
Pain NOS	11 (13)	5 (6)	Renal and urinary disorder	'S	
Lethargy	10 (12)	3 (4)	Dysuria	5 (6)	3 (4)
Tenderness NOS	9 (11)	0 (0)	Urinary frequency	4 (5)	1 (1)
Fall	7 (8)	3 (4)	Respiratory, thoracic and M		
Chest discomfort	6 (7)	3 (4)	Cough	33 (40)	25 (3
Intermittent pyrexia	5 (6)	3 (4)	Pharyngitis	13 (16)	6 (7)
Malaise	4 (5)	1 (1)	Crackles lung	12 (14)	1 (1)
Crepitations NOS	4 (5)	1 (1)	Breath sounds decreased	8 (10)	7 (9)
Catheter site erythema	4 (5)	1 (1)	Нурохіа	8 (10)	4 (5)
Catheter site pain	4 (5)	0 (0)	Rales	7 (8)	2 (2)
Injection site swelling	4 (5)	0 (0)	Postnasal drip	4 (5)	2 (2)
Hepatobiliary Disorders			Skin and subcutaneous tis		
Hyperbilirubinemia	12 (14)	4 (5)	Ecchymosis	18 (22)	12 (
Infections and Infestations	;		Rash NOS	16 (19)	7 (9)
Pneumonia NOS	18 (22)	11 (14)	Erythema	12 (14)	5 (6)
Cellulitis	10 (12)	6 (7)	Skin lesion NOS	9 (11)	3 (4)
Candidal infection NOS	8 (10)	1 (1)	Pruritis	9 (11)	2 (2)
Catheter related infection	7 (8)	0 (0)	Alopecia	7 (8)	1 (1)
Urinary tract infection NOS	6 (7)	1 (1)	Urticaria NOS	5 (6)	1 (1)
Staphylococcal infection	6 (7)	0 (0)	Swelling face	5 (6)	0 (0)
Oral candidiasis	5 (6)	2 (2)	Vascular disorders		
Sinusitis NOS	4 (5)	2 (2)	Petechiae	32 (39)	13 (
Bacteremia	4 (5)	0 (0)	Pallor	19 (23)	10 (1
Injury, poisoning and proce	. ,	. ,	Hypotension NOS	5 (6)	4 (5)
Transfusion reaction	6 (7)	3 (4)	Hematoma NOS	4 (5)	3 (4)
	~ (. )	~ ( . /	In a single-arm MDS study (N=	00) decitabine 50	) ma/violy

3(1)	In a single arm MDC study (NL 00) da	sitabina FO ma/vial wa
4 (5) 1 (1)	In a single-arm MDS study (N=99) dec 20 mg/m² intravenous, infused over o	
	days of a 4 week cycle. Table 2 preser of causality occurring in at least 5% of	its all adversé events r
NOS 13 (16) 9 (11)	, ,	
nosphatase 9 (11) 7 (9)	Table 2 Adverse Events Report Single-arm	
transferase 8 (10) 7 (9)		decitabine 50 <b>N = 99 (</b>
ased 8 (10) 1 (1)	Blood and lymphatic system disc	orders
. , , , ,	Anemia	31 (31)
hydrogenase 7 (8) 5 (6)	Febrile neutropenia	20 (20)
ecreased 6 (7) 0 (0)	Leukopenia	6 (6)
te increased 5 (6) 1 (1)	Neutropenia	38 (38)
ecreased 5 (6) 1 (1)	Pancytopenia	5 (5)
reased 4 (5) 3 (4)	Thrombocythemia	5 (5)
te decreased 4 (5) 1 (1)	Thrombocytopenia	27 (27)

Cardiac disorders

Tachycardia

Cardiac failure congestive

Ear and labyrinth disorders

1 (1)

6 (7)

16 (20)

14 (17)

20 (24)

20 (24)

8 (8)

10 (12)

10 (12)

13 (16)

12 (15

8 (10)

8 (10)

0 (0)

10 (12

)	Gastronniestinai disorders		
j)	Abdominal pain	14 (14)	F
	Abdominal pain upper	6 (6)	- 5
	Constipation	30 (30)	
	Diarrhea	28 (28)	
	Dyspepsia	10 (10)	
	Dysphagia	5 (5)	
	Gastro-esophageal reflux disease	5 (5)	1
	Nausea	40 (40)	F
	Oral pain	5 (5)	F
	Stomatitis	11 (11)	F
	Toothache	6 (6)	
	Vomiting	16 (16)	
	General disorders and administrati	on site conditions	_   F
ł)	Asthenia	15 (15)	
2)	Chest pain	6 (6)	
	Chills	16 (16)	
	Fatigue	46 (46)	
<b>!</b> )	Mucosal inflammation	9 (9)	N
	Edema	5 (5)	ye
	Edema peripheral	27 (27)	di
	Pain	5 (5)	nı th
	Pyrexia	36 (36)	th
	Infections and infestations	00 (00)	- 50
	Cellulitis	9 (9)	⊢ :
)	Oral candidiasis	6 (6)	$\dashv$
	Pneumonia	20 (20)	⊢ •
	Sinusitis	6 (6)	─ .
	Staphylococcal bacteremia	8 (8)	$\dashv$ .
	Tooth abscess	5 (5)	⊢ ・
			<b>⊣</b> •
	Upper respiratory tract infection	10 (10)	⊢ •
	Urinary tract infection  Injury, poisoning and procedural co	7 (7)	$\dashv$
j)	Contusion	9 (9)	⊢ •
		9 (9)	-
	Investigations Blood bilirubin increased	6 (6)	$\dashv$ :
	Breath sounds abnormal	6 (6)	⊢ :
		5 (5)	— <u> </u>
	Weight decreased	9 (9)	P
	Metabolism and nutrition disorders		— a
	Anorexia	23 (23)	re
	Decreased appetite	8 (8)	- re
5)	Dehydration	8 (8)	⊢ :
2)	Hyperglycemia	6 (6)	A
.,	Hypokalemia	12 (12)	<u>S</u>
	Hypomagnesemia	5 (5)	TI py
s dosed at	Musculoskeletal and connective tis		—  TI
onsecutive	Arthralgia	17 (17)	pı aı
regardless	Back pain	18 (18)	In
nts in a	Bone pain	6 (6)	ar w
	Muscle spasms	7 (7)	la
mg/vial	Muscular weakness	5 (5)	In
(%)	Musculoskeletal pain	5 (5)	to
	Myalgia	9 (9)	<u>Ta</u>
	Pain in extremity	18 (18)	— A
	Nervous system disorders		re
	Dizziness	21 (21)	— ex

Abdominal pain upper	6 (6)	
Constipation	30 (30)	
Diarrhea	28 (28)	
Dyspepsia	10 (10)	
Dysphagia	5 (5)	
Gastro-esophageal reflux disease	5 (5)	
Nausea	40 (40)	
Oral pain	5 (5)	
Stomatitis	11 (11)	
Toothache	6 (6)	$\neg$
Vomiting	16 (16)	$\neg$
General disorders and administrati	on site conditions	$\neg$
Asthenia	15 (15)	$\neg$
Chest pain	6 (6)	$\neg$
Chills	16 (16)	$\neg$
Fatigue	46 (46)	$\neg$
Mucosal inflammation	9 (9)	$\exists$
Edema	5 (5)	┪
Edema peripheral	27 (27)	$\dashv$
Pain	5 (5)	$\dashv$
Pyrexia	36 (36)	$\dashv$
Infections and infestations	(30)	$\dashv$
Cellulitis	9 (9)	$\dashv$
Oral candidiasis	6 (6)	$\dashv$
Pneumonia	20 (20)	$\dashv$
Sinusitis	6 (6)	$\dashv$
Staphylococcal bacteremia	8 (8)	$\dashv$
Tooth abscess	5 (5)	$\dashv$
		$\dashv$
Upper respiratory tract infection	10 (10)	$\dashv$
Urinary tract infection	7 (7)	$\dashv$
Injury, poisoning and procedural co		$\dashv$
Contusion	9 (9)	$\dashv$
Investigations	6 (6)	-
Blood bilirubin increased	6 (6)	$\dashv$
Breath sounds abnormal	5 (5)	$\dashv$
Weight decreased	9 (9)	$\dashv$
Metabolism and nutrition disorders		_
Anorexia	23 (23)	4
Decreased appetite	8 (8)	_
Dehydration	8 (8)	4
Hyperglycemia	6 (6)	_
Hypokalemia	12 (12)	$\dashv$
Hypomagnesemia	5 (5)	_
Musculoskeletal and connective tis		
Arthralgia	17 (17)	
Back pain	18 (18)	
Bone pain	6 (6)	
Muscle spasms	7 (7)	$\Box$
Muscular weakness	5 (5)	
Musculoskeletal pain	5 (5)	
Myalgia	9 (9)	
Pain in extremity	18 (18)	$\neg$
Nervous system disorders		$\neg$
Dizziness	21 (21)	$\dashv$
Headache	23 (23)	$\dashv$
Psychiatric disorders	, ,	$\dashv$
Anxiety	9 (9)	$\dashv$
Confusional state	8 (8)	$\dashv$
Depression	9 (9)	$\dashv$
Insomnia	14 (14)	$\dashv$
Respiratory, thoracic and mediastir		$\dashv$
Cough	27 (27)	$\dashv$
Dvspnea	29 (29)	$\dashv$

Epistaxis	13 (13)
Pharyngolaryngeal pain	8 (8)
Pleural effusion	5 (5)
Sinus congestion	5 (5)
Skin and subcutaneous tissue diso	rders
Dry skin	8 (8)
Ecchymosis	9 (9)
Erythema	5 (5)
Night sweats	5 (5)
Petechiae	12 (12)
Pruritus	9 (9)
Rash	11 (11)
Skin lesion	5 (5)
Vascular disorders	
Hypertension	6 (6)
Hypotension	11 (11)
* In this single arm study, investigator based on clinical signs and sympto laboratory abnormalities. Thus not a were recorded as adverse events.	ms rather than predefined
No overall difference in safety was detrears of age and younger patients in the lifferences in safety were detected be latients with renal or hepatic dysfunction numbers of non White patients were avanese clinical trials. Serious Adverse Events that occurred in 10 mg/vial not previously reported in Tal	se MDS trials. No significant stween males and fermales. were not studied. Insufficient illable to draw conclusions in patients receiving decitabine ples 1 and 2 include:

Allergic Reaction: hypersensitivity (anaphylactic reaction) Blood and Lymphatic System Disorders: myelosuppression

Cardiac Disorders: myocardial infarction, cardio-respiratory arrest cardiomyopathy, atrial fibrillation, supraventricular tachycardia. Gastrointestinal Disorders: gingival pain, upper gastrointestinal

General Disorders and Administrative Site Conditions: chest pain catheter site hemorrhage

Hepatobiliary Disorders: cholecystitis.

Infections and Infestations: fungal infection, sepsis, bronchopulmonary aspergillosis, peridiverticular abscess, respiratory tract infection oseudomonal lung infection. Mycobacterium avium complex infection njury, Poisoning and Procedural Complications: post procedural

pain, post procedural hemorrhage. Nervous System Disorders: intracranial hemorrhage

Psychiatric Disorders: mental status changes. Renal and Urinary Disorders: renal failure, urethral hemorrhage Respiratory, Thoracic and Mediastinal Disorders; hemoptysis, lun

infiltration, pulmonary embolism, respiratory arrest, pulmonary mass ost marketing Experience ne following adverse reactions have been identified during post proval use of decitabine 50 mg/vial. Because these reactions are orted voluntarily from a population of uncertain size, it is not always

ssible to reliably estimate their frequency or establish a causa ationship to drug exposure. eet's syndrome (acute febrile neutrophilic dermatosis).

## Differentiation syndrome

mmary of the safety profile he most common adverse drug reactions (≥ 35%) reported are rexia, anemia and thrombocytopenia.

eumonia, thrombocytopenia, neutropenia, febrile neutropenia and clinical studies, 30% of patients treated with decitabine 50 mg/vial th an outcome of death during treatment or within 30 days after the

e most common Grade 3/4 adverse drug reactions (≥ 20%) included

dose of study drug. the decitabine 50 mg/vial treatment group, there was a higher incidence f treatment discontinuation due to adverse events in women compared men (43% versus 32%).

### bulated list of adverse drug reactions

verse drug reactions reported in 293 AML patients treated with sitabine 50 mg/yial are summarised in Table 3. The following table ects data from AML clinical studies and from post-marketing perience. The adverse drug reactions are listed by frequency category quency categories are defined as follows: Very common ( $\geq$  1/10), nmon ( $\geq$  1/100 to < 1/100), uncommon ( $\geq$  1/1,000 to < 1/100), rare /10,000 to < 1/1,000), very rare (< 1/10,000), not known (frequency nnot be estimated from the available data).

in each frequency grouping, adverse drug reactions are presented order of decreasing seriousness

## **Decitabine-Trima** 50 mg/vial

P00001568 0823B

## **Decitabine-Trima** 50 mg/vial

## **Decitabine-Trima** 50 mg/vial

P00001568 0823B

## Decitabine-Trima 50 mg/vial

P00001568 0823B

# **Decitabine-Trima** 50 mg/vial

P00001568 0823B

# **Decitabine-Trima** 50 mg/vial

P00001568 0823B

# **Decitabine-Trima** 50 mg/vial

# Decitabine-Trima 50 mg/vial

P00001568 0823B

#### Table 3: Adverse Drug Reactions Identified with decitabine 50 mg/vial2

System Organ Class	System Frequency Adverse Drug Organ Class (all Grades) Reaction		Frequ	ency
Organ Olass	(all Glades)	neaction	All Grades <sup>a</sup> (%)	Grades 3-4ª (%)
Infections and infestations	Very	pneumonia*	24	20
iniestations	Common	urinary tract infection*	15	7
		All other infections (viral, bacterial, fungal)* b,c,d	63	39
	Common	septic shock*	6	4
		sepsis*	9	8
		sinusitis	3	1
Neoplasms benign, malignant and unspecified (incl. cysts and polyps)	Not known	differentiation syndrome	Not known	Not known
Blood and	Very	febrile neutropenia*	34	32
lymphatic disorders	common	neutropenia*	32	30
		thrombocytopeniab*e	41	38
		anaemia	38	31
		leukopenia	20	18
	Uncommon	Pancytopenia*	<1	<1
Immune system disorders	Common	Hypersensitivity including anaphylactic reaction <sup>cf</sup>	1	<1
Metabolism and nutrition disorders	Very common	hyperglycaemia	13	3
Nervous system disorders	Very common	headache	16	1
Cardiac disorders	Uncommon	cardiomyopathy	< 1	< 1
Respiratory, thoracic and	Very common	epistaxis	14	2
mediastinal disorders	Not known	interstitial lung disease	Not known	Not known
Gastrointestinal	Very	diarrhoea	31	2
disorders	common	vomiting	18	1
		nausea	33	<1
	Common	stomatitis	7	1
	Not known	Enterocolitis, including neutropaenic colitis, caecitis*	Not known	Not known
Hepatobiliary disorders	Very common	hepatic function abnormal	11	3
	Common	hyperbilirubinaemiag	5	<1
Skin and subcutaneous tissue disorders	Uncommon	acute febrile neutrophilic dermatosis (Sweet's syndrome)	<1	NA
General disorders and administration site conditions	Very common	pyrexia	48	9

- Worst National Cancer Institute Common Terminology Criteria for Adverse Events Grade Excluding pneumonia, urinary tract infection, sepsis, septic shock and sinusitis.
- The most frequently reported "other infections" in study DACO-016 were: oral herpes.
- nasopharyngitis.
  d Including enterocolitis infectious.
- e Including haemorrhage associated with thrombocytopaenia, including fatal cases.
- Including preferred terms hypersensitivity, drug hypersensitivity, anaphylactic reaction, anaphylactic shock, anaphylactoid reaction, anaphylactoid shock.
- g In clinical studies in AML and myelodysplastic syndrome (MDS), the reporting frequency for hyperbilirubinaemia was 11% for All Grades and 2% for Grade 3-4.
- Includes events with a fatal outcome

### Description of selected adverse drug reactions

### Hematologic adverse drug reactions

The most commonly reported hematologic adverse drug reactions associated with decitabine 50 mg/vial treatment included febrile neutropenia, thrombocytopenia, neutropenia, anemia and leukopenia.

Serious bleeding-related adverse drug reactions, some of which lead to a fatal outcome, such as central nervous system (CNS) hemorrhage (2%) and gastrointestinal (GI) hemorrhage (2%), in the context of severe thrombocytopenia, vere reported in patients receiving decitabine.

Hematological adverse drug reactions should be managed by routine monitoring of complete blood counts and early administration of supportive treatments as required. Supportive treatments include, administration of prophylactic antibiotics and/or growth factor support (e.g., G-CSF) for neutropenia and transfusions for anemia or thrombocytopenia according to institutional guidelines. For situations where decitabine administration should be delayed, see section 4.2. Infections and infestations adverse drug reactions

Serious infection related adverse drug reactions, with potentially fatal outcome, such as septic shock, sepsis, pneumonia, and other infections (viral, bacterial and fungal) were reported in patients receiving decitabine. Gastrointestinal disorders

Occurrences of enterocolitis, including neutropenic colitis, cecities have been reported during treatment with decitabine. Enterocolitis may lead to septic complications and may be associated with fatal outcome. Respiratory thoracic and mediastinal disorders

Cases of interstitial lung disease (including pulmonary infiltrates, organizing pneumonia and pulmonary fibrosis) without signs of infectious etiology have been reported in patients receiving decitabine.

Differentiation syndrome Cases of differentiation syndrome (also known as retinoic acid syndrome) have been reported in patients receiving decitabine. Differentiation syndrome may be fatal and symptoms and clinical findings include respiratory distress, pulmonary infiltrates, fever, rash, pulmonary oedema, peripheral oedema, rapid weigh gain, pleural effusions, pericardial effusions, hypotension and renal dysfunction Differentiation syndrome may occur with or without concomitant leucocytosis. Capillary leak syndrome and coagulopathy can also occur (see section 4.4). Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance

Any suspected adverse events should be reported to the Ministry of Health according to the National Regulation by using an online form https://sideeffects.health.gov.il

Side effects can also be reported to the following email: safety@trima.co.il 4.9. Overdose

here is no direct experience of human overdose and no specific antidote. However, early clinical study data in published literature at doses greater than 20 times higher than the current therapeutic doses, reported increase including prolonged neutropenia and thrombocytopenia. Toxicity is likely to nanifest as exacerbations of adverse drug reactions, primarily my reatment for overdose should be supportive.

### 5. PHARMACOLOGICAL PROPERTIES

## 5.1. Pharmacodynamic Properties

Pharmacotherapeutic group: Antineoplastic agents, antimetabolites, pyrimidine analogues; ATC Code: L01BC08 Mechanism of action

Decitabine (5-aza-2'-deoxycytidine) is a cytidine deoxynucleoside analogue that selectively inhibits DNA methyltransferases at low doses, resulting in gene promoter hypomethylation that can result in reactivation of tumour suppressor genes, induction of cellular differentiation or cellular senescence followed by ammed cell death

## AML Clinical experience

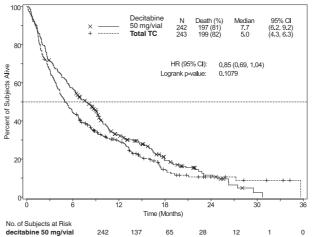
The use of decitabine 50 mg/vial was studied in an open-label, randomised, multicentre Phase III study (DACO-016) in subjects with newly diagnosed de novo or secondary AML according to the WHO classification. Decitabine 50 mg/vial (n=242) was compared to treatment choice (TC, n=243) which consisted of patient's choice with physician's advice of either supportive care alone (n=28, 11.5%) or 20 mg/m² cytarabine subcutaneously once daily for 10 consecutive days repeated every 4 weeks (n=215, 88.5%). Decitabine 50 mg/vial was administered as a 1-hour intravenous infusion of 20 mg/m<sup>2</sup> once daily for 5 consecutive days repeated every 4 weeks.

Subjects who were considered candidates for standard induction chemotherar subjects who were considered calculates for standard induction of the international years of the included in the study as shown by the following baseline characteristics. The median age for the intent-to-treat (ITT) population was 73 years (range 64 to 1 years). Thirty-six percent of subjects had poor-risk cytogenetics at baseline The remainder of the subjects had intermediate-risk cytogenetics. Patients with favourable cytogenetics were not included in the study. Twenty-five percent of subjects had an ECOG performance status ≥2. Eighty-one percent of subjects had significant comorbidities (e.g., infection, cardiac impairment, pulmonary

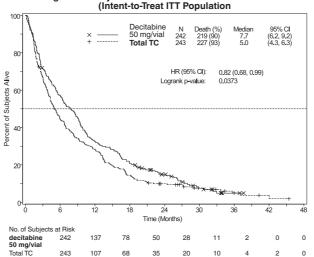
impairment). The number of patients treated with decitabine 50 mg/vial by racial group was White 209 (86.4%) and Asian 33 (13.6%). The primary endpoint of the study was overall survival. The secondary endpoint

was complete remission rate that was assessed by independent expert review. ogression-free survival and Event-free survival were tertiary endpoints. The median overall survival in the intent-to-treat ITT population was 7.7 months in subjects treated with decitabine 50 mg/yial compared to 5.0 months for subjects in the TC arm (hazard ratio 0.85; 95% CI: 0.69, 1.04, p = 0.1079). The difference did not reach statistical significance, however, there was a trend for improvement in survival with a 15% reduction in the risk of death for subjects in the decitabine 50 mg/vial arm (Figure 1). When censored for potentially disease. odifying subsequent therapy (i.e., induction chemotherapy or hypomethylating agent) the analysis for overall survival showed a 20% reduction in the risk of eath for subjects in the decitabine 50 mg/vial arm [HR = 0.80, (95% CI: 0.64, 0.99), p-value = 0.04371.

## Figure 1. Overall Survival (Intent-to-Treat ITT Population)



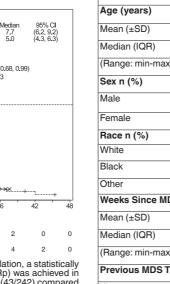
decitabine 50 mg/vial on overall survival demonstrated a clinical improvement compared to the TC arm (7.7 months vs. 5.0 months, respectively, hazard ratio = 0.82, 95% CI: 0.68, 0.99, nominal p-value = 0.0373, Figure 2)



decitabine 50 mg/vial n=242	TC (combined group) n= 243	p-value
43 (17.8%)	19 (7.8%)	0.0011
OR = 2 (1.40, 4.	2.5 .78) <sup>b</sup>	
38 (15.7%)	18 (7.4%)	-
3.5 (2.5, 4.1)b	2.1 (1.9, 2.8) <sup>b</sup>	0.0025
3.7 (2.7, 4.6) <sup>b</sup>	2.1 (1.9, 3.1) <sup>b</sup>	0.0031
HR = 0.75 (0.62, 0.91) <sup>b</sup>		
	mg/vial n=242  43 (17.8%)  OR = 2 (1.40, 4.  38 (15.7%)  3.5 (2.5, 4.1)b  HR = 0 (0.62, 0.  3.7 (2.7, 4.6) <sup>b</sup> HB = 0	decitabline 50 mg/vial n=242 group) n= 243  43 (17.8%) 19 (7.8%)  OR = 2.5 (1.40, 4.78) <sup>b</sup> 38 (15.7%) 18 (7.4%)  3.5 (2.5, 4.1)b (1.9, 2.8) <sup>b</sup> HR = 0.75 (0.62, 0.90)b  3.7 (2.7, 4.6) <sup>b</sup> (1.9, 3.1) <sup>b</sup> HB = 0.75

In an analysis with an additional 1 year of mature survival data, the effect of

Figure 2. Analysis of Mature Overall Survival Data



Based on the initial analysis in the Intent-to-Treat ITT population, a statistically significant difference in complete remission rate (CR + CRp) was achieved in favour of subjects in the decitabine 50 mg/vial arm, 17.8% (43/242) compared to the TC arm, 7.8% (19/243); treatment difference 9.9% (95% CI: 4.07; 15.83), p = 0.0011. The median time to best response and median duration of best esponse in patients who achieved a CR or CRp were 4.3 months and 8.3 months. respectively. Progression-free survival was significantly longer for subjects in the decitabine 50 mg/vial arm, 3.7 months (95% Cl; 2.7, 4.6) compared with subjects n the TC arm, 2.1 months (95% CI: 1.9, 3.1); hazard ratio 0.75 (95% CI: 0.62, 0.91), p = 0.0031. These results as well as other endpoints are shown in Table 6.

ру	Table 6: Other efficac	cy endpoints for Stud	ly DACO-016 (ITT	ро
				$\overline{}$

Outcomes	mg/vial n=242	n= 243	p-value
CR + CR <sub>P</sub>	43 (17.8%)	19 (7.8%)	0.0011
	OR = (1.40, 4	2.5 .78) <sup>b</sup>	
CR	38 (15.7%)	18 (7.4%)	-
EFS <sup>a</sup>	3.5 (2.5, 4.1)b	2.1 (1.9, 2.8) <sup>b</sup>	0.0025
	HR = 0 (0.62, 0		
PFS <sup>a</sup>	3.7 (2.7, 4.6) <sup>b</sup>	2.1 (1.9, 3.1) <sup>b</sup>	0.0031
	HR = 0 (0.62, 0	).75 (.91) <sup>b</sup>	

ecovery, EFS = event-free survival, PFS = progression-free survival, OR = odds ratio, HR = hazard ratio = Not evaluable

- Reported as median months
- 95% confidence intervals

Overall survival and complete remission rates in pre-specified disease-related sub-groups (i.e., cytogenetic risk, Eastern Cooperative Oncology Group [ECOG] score, age, type of AML, and baseline bone marrow blast count) were consister with results for the overall study population.

The use of decitabine 50 mg/vial as initial therapy was also evaluated in an ope label, single-arm, Phase II study (DACO- 017) in 55 subjects > 60 years with AML according to the WHO classification. The primary endpoint was complete remission (CR) rate that was assessed by independent expert review. The secondary endpoint of the study was overall survival. Decitabine 50 mg/vial was administered as a 1-hour intravenous infusion of 20 mg/m² once daily for 5 consecutive days repeated every 4 weeks. In the Intent-to-Treat ITT analysis, a CR rate of 23.6% (95% CI: 13.2, 37) was observed in 13/55 subjects treated with decitabine 50 mg/vial. The median time to CR was 4.1 months, and the median duration of CR was 18.2 months. The median overall survival in the Intent-to-Treat ITT population was 7.6 months (95% CI: 5.7, 11.5). The efficacy and safety of decitabine 50 mg/vial has not been evaluated in

patients with acute promyelocytic leukaemia or CNS leukaemia. MDS Clinical experience A randomized open-label, multicenter, controlled trial evaluated 170 adult patients

with myelodysplastic syndromes (MDS) meeting French-American-British (FAB classification criteria and International Prognostic Scoring System (IPSS) High-Risk, Intermediate-2 and Intermediate-1 prognostic scores. Eighty-nine patients were randomized to decitabine 50 mg/vial therapy plus supportive care (only received decitabine 50 mg/vial), and 81 to Supportive Care (SC) alone Patients with Acute Myeloid Leukemia (AML) were not intended to be included Of the 170 patients included in the study, independent review (adjudicated diagnosis) found that 12 patients (9 in the decitabine 50 mg/yial arm and 3 in the SC arm) had the diagnosis of AML at baseline. Baseline demographics and other patient characteristics in the Intent-to-Treat (ITT) population were similar between the 2 groups, as shown in Table 7.

#### Table 7 Baseline Demographics and Other Patient Characteristics (ITT) Demographic or Other Patient Characteristic decitabine 50 mg/vial Supportive Care N - 89

Modif (±0D)	00210	07210
Median (IQR)	70 (65-76)	70 (62-74)
(Range: min-max)	(31-85)	(30-82)
Sex n (%)		
Male	59 (66)	57 (70)
Female	30 (34)	24 (30)
Race n (%)		
White	83 (93)	76 (94)
Black	4 (4)	2 (2)
Other	2 (2)	3 (4)
Weeks Since MDS Diagnosis	3	
Mean (±SD)	86±131	77±119
Median (IQR)	29 (10-87)	35 (7-98)
(Range: min-max)	(2-667)	(2-865)
Previous MDS Therapy n (%)		
Yes	27 (30)	19 (23)
No	62 (70)	62 (77)
RBC Transfusion Status n (%)		
Independent	23 (26)	27 (33)
Dependent	66 (74)	54 (67)
Platelet Transfusion Status n (%)		
Independent	69 (78)	62 (77)
Dependent	20 (22)	19 (23)
IPSS Classification n (%)		
Intermediate-1	28 (31)	24 (30)
Intermediate-2	38 (43)	36 (44)
High Risk	23 (26)	21 (26)
FAB Classification n (%)		
RA	12 (13)	12 (15)
RARS	7 (8)	4 (5)
RAEB	47 (53)	43 (53)
RAEB-t	17 (19)	14 (17)

8 (10)

Patients randomized to the decitabine 50 mg/vial arm received decitabine 50 mg/ vial intravenously infused at a dose of 15 mg/m² over a 3-hour period, every 8 hours, for 3 consecutive days. This cycle was repeated every 6 weeks, depending on the patient's clinical response and toxicity. Supportive care consisted of blood blood product transfusions, prophylactic antibiotics, and hematopoietic growth factors. The study endpoints were overall response rate (complete response + partial response) and time to AML or death. Responses were classified using the MDS International Working Group (IWG) criteria; patients were required

Complete Response (CR) ≥ 8 weeks	Bone Marrow	On repeat aspirates: <ul> <li>&lt; 5% myeloblasts</li> <li>No dysplastic changes</li> </ul>
	Peripheral Blood	In all samples during response:  Hgb > 11 g/dL (no transfusions or erythropoietin  ANC ≥ 1500/μL (no growth factor)  Platelets ≥ 100,000/ μL (no thrombopoietic agent)  No blasts and no dysplasia
Partial Response (PR) ≥ 8 weeks	Bone Marrow	On repeat aspirates:      ≥ 50% decrease in blasts over pretreatment values OR     Improvement to a less advanced MDS FAB classification
	Peripheral Blood	Same as for CR

Standardize Response Criteria for MDS. *Blood*. 2000; 96:3671-3674.

he overall response rate (CR+PR) in the ITT population was 17% in decitabine median time to AML or death versus supportive care.

Table 9 Analysis of Response (ITT)				
Parameter	decitabine 50 mg/vial N=89	Supportive Care N=81		
Overall Response Rate (CR+PR) <sup>†</sup> Complete Response (CR) Partial Response (PR)	<b>15 (17%)**</b> 8 (9%) 7 (8%)	<b>0 (0%)</b> 0 (0%) 0 (0%)		
Duration of Response Median time to (CR+PR) response - Days (range) Median Duration of (CR+PR) response - Days (range)	93 (55-272) 288 (116-388)	NA NA		

p-value <0.001 from two-sided Fisher's Exact Test comparing decitabine 50 mg/vial vs. Supportive Care In the statistical analysis plan, a p-value of ≤ 0.024 was required to achieve

statistical significance.

All patients with a CR or PR were RBC and platelet transfusion independent in the absence of growth factors.

#### Responses occurred in patients with an adjudicated baseline diagnosis of AML. Single-arm Studies

Three open-label, single-arm, multicenter studies were conducted to evaluate the safety and efficacy of decitabine 50 mg/vial in MDS patients with any of the FAR subtynes. In one study conducted in North America, 99 patients with IPSS Intermediate-1, Intermediate-2, or high risk prognostic scores received decitabine 50 mg/yial 20 mg/m as an intravenous infusion over 1-hour daily on days 1-5 of week 1 every 4 weeks (1 cycle). The results were consistent with

the results of the controlled trial and are summarized in Table 10

## Table 10 Baseline Demographics and Other Patient Characteristics

Demographic or Other Patient Characteristic	decitabine 50 mg/vial N = 99
Age (years)	
Mean (±SD)	71±9
Median (Range: min-max)	72 (34-87)
S n (%)	
Male	71 (72)
Female	28 (28)
Race n (%)	

to be RBC and platelet transfusion independent during the time of response. Response criteria are given in **Table 8**:

### Table 8 Response Criteria for Phase 3 the controlled Trial in MDS\*

Complete Response (CR) ≥ 8 weeks	Bone Marrow	On repeat aspirates: <ul> <li>&lt; 5% myeloblasts</li> <li>No dysplastic changes</li> </ul>
	Peripheral Blood	In all samples during response:  • Hgb > 11 g/dL (no transfusions or erythropoietin  • ANC ≥ 1500/µL (no growth factor)  • Platelets ≥ 100,000/ µL (no thrombopoietic agent)  • No blasts and no dysplasia
Partial Response (PR) ≥ 8 weeks	Bone Marrow	On repeat aspirates:
	Peripheral Blood	Same as for CR

50 mg/vial-treated patients and 0% in the SC group (p<0.001). (See Table 9) The overall response rate was 21% (12/56) in decitabine 50 mg/vial-treated patients considered evaluable for response (i.e.,those patients with pathologically confirmed MDS at baseline who received at least 2 cycles of treatment). The median duration of response (range) for patients who responded to decitabine 50 mg/vial was 288 days (116-388) and median time to response (range) was 93 days (55-272). All but one of the decitabine 50 mg/yial-treated patients who

nded did so by the fourth cycle. Benefit was seen in an additional 13% of decitabine 50 mg/vial-treated patients who had hematologic improvement. defined. as a response less than PR lasting at least 8 weeks, compared to 7% of SC patients. Decitabine 50 mg/vial treatment did not significantly delay the

Parameter	decitabine 50 mg/vial N=89	Supportive Care N=81	CMML	11 (11)	
I Response Rate (CR+PR)†	15 (17%)**	0 (0%)	Table 11 Analysis of Response	Analysis of Response (ITT)*	
ete Response (CR) Response (PR)	8 (9%) 7 (8%)	0 (0%) 0 (0%)	Parameter	decitabine 50 mg/vial N=99	
on of Response n time to (CR+PR) response - range)	93 (55-272)	NA NA	Overall Response Rate (CR+PR) Complete Response (CR) Partial Response (PR)	<b>16 (16%)</b> 15 (15%) 1 (1%)	
Duration of (CR+PR) response - range)	288 (116-388)		Duration of Response Median time to (CR+PR) response - Days (range)	162 (50-267)	
lue <0.001 from two-eided Figher's Evect Test comparing decitabine		Median Duration of (CR+PR) response - Days (range)	443 (72-722+)		

Cheson BD, Bennett JM, et al. Report of an International Working Group to

on the fifth day of the first treatment cycle.

Days From MDS Diagnosis to First Dose

Median (Range: min-max)

Previous MDS Therapy n (%)

RBC Transfusion Status n (%)

Platelet Transfusion Status n (%)

emographic or Other Patient

IPSS Classification n (%)

FAB Classification n (%)

Independent

ndependent

Low Risk

Intermediate-1

Characteristic

RAEB

ardize Response Criteria for MDS. Blood. 2000; 96:3671-3674.

5.2. Pharmacokinetic Properties he population pharmacokinetic (PK) parameters of decitabine were pooled from 3 clinical studies in 45 patients with AML or myelodysplastic syndrome (MDS) utilizing the 5-Day regimen in each study, decitabine PK was evaluated

he pharmacokinetics of decitabine following intravenous administration as a -hour infusion were described by a linear two-compartment model, characterized by rapid elimination of the drug from the central compartment and by relatively slow distribution from the peripheral compartment. For a typical patient (weight 70 kg/body surface area 1.73 m²) the decitabine pharmacokinetic parameters

6 (6)

4 (4)

3 (3)

444±626

27 (27)

72 (73)

33 (33)

66 (67)

84 (85)

15 (15)

1 (1)

52 (53)

23 (23)

23 (23)

20 (20)

17 (17)

45 (45)

6 (6)

154 (7-3079)

## Table 12 Summary of population PK analysis for a typical patient receiving daily 1-hour infusions of decitabine 50 mg/vial 20 mg/m<sup>2</sup> over 5 days every 4 weeks

20 mg/m over a days overy 1 mound			
Parameter <sup>a</sup>	Predicted Value	95% CI	
C <sub>max</sub> (ng/mL)	107	88.5-129	
AUC <sub>cum</sub> (ng.h/mL)	580	480-695	
t <sub>1/2</sub> (min)	68.2	54.2-79.6	
Vd <sub>ss</sub> (L)	116	84.1-153	
CL (L/h)	298	249-359	
The tetal dans are surla			

The total dose per cycle was 100 mg/m<sup>2</sup>

Decitabine exhibits linear PK and following the intravenous infusion, steady-state concentrations are reached within 0.5 hour. Based on model simulation, PK parameters were independent of time (i.e., did not change from cycle to cycle) and no accumulation was observed with this dosing regimen. Plasma protein binding of decitabine is negligible (<1%). Decitabine Vds in cancer patients is large indicating distribution into peripheral tissues. There was no evidence of ependencies on age, creatinine clearance, total bilirubin, or disease. Biotransformation

9. SPECIAL PRECAUTIONS FOR STORAGE phosphokinase activities to the corresponding triphosphate, which is then Store below 25°C

ncorporated by the DNA polymerase. In vitro metabolism data and the human mass balance study results indicated that the cytochrome P450 system is not involved in the metabolism of decitabine. The primary route of metabolism is likely through deamination by cytidine deaminase in the liver, kidney, intestinal epithelium and blood. Results from the human mass-balance study showed that unchanged decitabine in plasma accounted for approximately 2.4% of total radioactivity in plasma. The major circulating metabolites are not believed to be pharmacologically active. The presence of these metabolites in urine together with the high total body clearance and low urinary excretion of unchanged decitabine in the urine (~4% of the dose) indicate that decitabine is appreciably metabolised *in vivo*. *In vitro* studies show that decitabine does not inhibit nor induce CYP 450 enzymes up to more than 20-fold of the therapeutic maximum observed plasma concentration ( $C_{max}$ ). Thus; CYP-mediated metabolic drug interactions are not anticipated, and decitabine is unlikely to interact with agents

Elimination Mean plasma clearance following intravenous administration in cancer subjects The reconstituted solution must be diluted prior to administration was >200 L/h with moderate inter-subject variability (Coefficient of variation [CV] is approximately 50%). Excretion of unchanged drug appears to play only

minor role in the elimination of decitabine. Results from a mass balance study with radioactive <sup>14</sup>C-decitabine in cancer patients showed that 90% of the administered dose of decitabine (4% unchanged drug) is excreted in the urine

Additional information on special populations

is a poor P-op substrate.

The effects of renal or hepatic impairment, gender, age or race on the pharmacokinetics of decitabine have not been formally studied. Information on special populations was derived from pharmacokinetic data from the 3 studies noted above, and from one Phase I study in MDS subjects (N=14; 15 mg/m² X

Population pharmacokinetic analysis showed that decitabine pharmacokinetics is not dependent on age (range studied 40 to 87 years; median 70 years).

Population pharmacokinetics analysis of decitabine did not show any clinically

relevant difference between men and women. Most of the natients studied were Caucasian However the population pharmacokinetic analysis of decitabine indicated that race had no apparent

Henatic impairment The PK of decitabine have not been formally studied in patients with hepatic impairment. Results from a human mass-balance study and *in vitro* experiments mentioned above indicated that the CYP enzymes are unlikely to be involved in the metabolism of decitabine. In addition, the limited data from the population PK analysis indicated no significant PK parameter dependencies on total bilirubin concentration despite a wide range of total bilirubin levels. Thus, decitabine exposure is not likely to be affected in patients with impaired hepatic function.

Renal impairment

The PK of decitabine have not been formally studied in patients with renal insufficiency. The population PK analysis on the limited decitabine data indicated no significant PK parameter dependencies on normalised creatinine clearance, an indicator of renal function. Thus, decitabine exposure is not likely to be affected patients with impaired renal function.

### 5.3. Preclinical Safety Data

effect on the exposure to decitabine.

Formal carcinogenicity studies have not been performed with decitabine. Evidence from the literature indicates that decitabine has carcinogenic potential. The available data from in vitro and in vivo studies provide sufficient evidence that decitabine s genotoxic potential. Data from the literature also indicate that decitabine has adverse effects on all aspects of the reproductive cycle, including fertility. embryo-foetal development and post-natal development. Multi-cycle repeat-dose toxicity studies in rats and rabbits indicated that the primary toxicity was myelosuppression, including effects on bone marrow, which was reversible on cessation of treatment. Gastrointestinal toxicity was also observed and in males, testicular atrophy which did not reverse over the scheduled recovery periods ecitabine administration to neonatal/juvenile rats showed a comparable general toxicity profile as in older rats. Neurobehavioral development and reproductive apacity were unaffected when neonatal/juvenile rats were treated at dose levels ucing myelosuppression. See section 4.2 for information on paediatric use.

6. PHARMACEUTICAL PARTICULARS 6.1. List of excipients

### Monobasic potassium phosphat

- Sodium hvdroxide Water for injection
- 7. INCOMPATIBILITIES
- This medicinal product must not be mixed with other medicinal products except those mentioned in section 9.2.

# 8. SHELF LIFE

Unopened vial

The expiry date of the product is indicated on the packaging materials. Reconstituted and diluted solution

For administration within 15 minutes of preparation:

Dilute the reconstituted solution with room temperature (20°C to 25°C) 0.9% Sodium Chloride Injection or 5% Dextrose Injection to a final concentration of 0.1 mg/mL to 1 mg/mL. Discard unused portion.

For delayed administration (after 15 minutes of preparation):

Dilute the reconstituted solution with **cold (2°C to 8°C)** 0.9% Sodium Chloride Injection or 5% Dextrose Injection to a final concentration of 0.1 mg/mL to 1 mg/ mL. Store at 2°C to 8°C for up to 4 hours. Diluted stored solution must be used

within 4 hours from the time of preparation. From a microbiological point of view, the product should be used within the

time period recommended above. It is the responsibility of the user to follow the commended storage times and conditions and ensures that reconstitution has Intracellularly, decitabine is activated through sequential phosphorylation via taken place in aseptic conditions

For storage conditions of the reconstituted and diluted medicinal product see

## 9.1. Nature and contents of container

20 ml clear Type I glass vial sealed with a bromobutyl lyo rubber stopper and an aluminium flip off seal containing 50 mg decitabine. Pack size: 1 vial 9.2. Special precautions for disposal and other handling

#### Recommendations for safe handling kin contact with the solution should be avoided and protective gloves must

be worn. Standard procedures for dealing with cytotoxic medicinal products should be adopted. Reconstitution procedure

metabolised through these pathways. In addition, in vitro data show that decitabine wder should be aseptically reconstituted with 10 ml room temperature 20°C to 25°C) of water for injections. Upon reconstitution, each ml contains

he reconstituted product should be used within 15 minutes.

## Dilution Procedure

or administration within 15 minutes of preparation

The solution must be further diluted with room temperature (20°C to 25°C) 0.9% Sodium Chloride Injection or 5% Dextrose Injection to a final concentration of 0.1 mg/mL to 1 mg/mĹ

### iscard unused portion

For delayed administration (after 15 minutes of preparation) Dilute the reconstituted solution with **cold (2°C to 8°C)** 0.9% Sodium Chloride Injection or 5% Dextrose Injection to a final concentration of 0.1 mg/mL to 1 mg/mL.

For the shelf-life and the precaution for storage after reconstitution, see section 8. Decitabine-Trima 50 mg/vial should not be infused through the same intravenous access/line with other medicinal products. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit. Do not use if there is evidence of particulate matter or discoloration.

## nis medicinal product is for single use only. Any unused medicinal product or

waste material should be disposed of in accordance with local requirements. 10. MARKETING AUTHORIZATION NUMBER 171-25-36984-99

### 11. LICENSE HOLDER

langana, India

Trima Israel Pharmaceutical Products Maabarot LTD., Maabarot 4023000, Israel. 2. MANUFACTURER

# Revised in February 2023 according to MoH guidelines.

Or. Reddy's Laboratories Limited Door No. 8-2-337, Road No. 3, Banjara Hills, Hyderabad - 500034,