

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

21-248

FINAL PRINTED LABELING

- 1 **TRISENOX™**
- 2 (arsenic trioxide) injection
- 3 For Intravenous Use Only
- 4 10 mg/10 mL (1 mg/mL) ampule

Rx only

WARNING

Experienced Physician and Institution: TRISENOX™ (arsenic trioxide) injection should be administered under the supervision of a physician who is experienced in the management of patients with acute leukemia.

APL Differentiation Syndrome: Some patients with APL treated with TRISENOX™ have experienced symptoms similar to a syndrome called the retinoic-acid-Acute Promyelocytic Leukemia (RA-APL) or APL differentiation syndrome, characterized by fever, dyspnea, weight gain, pulmonary infiltrates and pleural or pericardial effusions, with or without leukocytosis. This syndrome can be fatal. The management of the syndrome has not been fully studied, but high-dose steroids have been used at the first suspicion of the APL differentiation syndrome and appear to mitigate signs and symptoms. At the first signs that could suggest the syndrome (unexplained fever, dyspnea and/or weight gain, abnormal chest auscultatory findings or radiographic abnormalities), high-dose steroids (dexamethasone 10 mg intravenously BID) should be immediately initiated, irrespective of the leukocyte count and continued for at least 3 days or longer until signs and symptoms have abated. The majority of patients do not require termination of TRISENOX™ therapy during treatment of the APL differentiation syndrome.

ECG Abnormalities: Arsenic trioxide can cause QT interval prolongation and complete atrioventricular block. QT prolongation can lead to a torsade de pointes-type ventricular arrhythmia, which can be fatal. The risk of torsade de pointes is related to the extent of QT prolongation, concomitant administration of QT prolonging drugs, a history of torsade de pointes, preexisting QT interval prolongation, congestive heart failure, administration of potassium-wasting diuretics, or other conditions that result in hypokalemia or hypomagnesemia. One patient (also receiving amphotericin B) had torsade de pointe during induction therapy for relapsed APL with arsenic trioxide.

ECG and Electrolyte Monitoring Recommendations: Prior to initiating therapy with TRISENOX™, a 12-lead ECG should be performed and serum electrolytes (potassium, calcium, and magnesium) and creatinine should be assessed; preexisting electrolyte abnormalities should be corrected and, if possible, drugs that are known to prolong the QT interval should be discontinued. For QTc greater than 500 msec, corrective measures should be completed and the QTc reassessed with serial ECGs prior to considering using TRISENOX™. During therapy with TRISENOX™, potassium concentrations should be kept above 4 mEq/dL and magnesium concentrations should be kept above 1.8 mg/dL. Patients who reach an absolute QT interval value > 500 msec should be reassessed and

immediate action should be taken to correct concomitant risk factors, if any, while the risk/benefit of continuing versus suspending TRISENOX™ therapy should be considered. If syncope, rapid or irregular heartbeat develops, the patient should be hospitalized for monitoring, serum electrolytes should be assessed, TRISENOX™ therapy should be temporarily discontinued until the QTc interval regresses to below 460 msec, electrolyte abnormalities are corrected, and the syncope and irregular heartbeat cease. There are no data on the effect of TRISENOX™ on the QTc interval during the infusion.

5 DESCRIPTION

6 TRISENOX™ is a sterile injectable solution of arsenic trioxide. The molecular formula
7 of the drug substance in the solid state is As_2O_3 , with a molecular weight of 197.8 g.

8 TRISENOX™ is available in 10 mL, single-use ampules containing 10 mg of arsenic
9 trioxide. TRISENOX™ is formulated as a sterile, nonpyrogenic, clear solution of arsenic
10 trioxide in water-for-injection using sodium hydroxide and dilute hydrochloric acid to
11 adjust to pH 8. TRISENOX™ is preservative-free. Arsenic trioxide, the active
12 ingredient, is present at a concentration of 1.0 mg/mL. Inactive ingredients and their
13 respective approximate concentrations are sodium hydroxide (1.2 mg/mL) and
14 hydrochloric acid, which is used to adjust the pH to 7.0 - 9.0.

15 CLINICAL PHARMACOLOGY

16 Mechanism of Action

17 The mechanism of action of TRISENOX™ is not completely understood. Arsenic
18 trioxide causes morphological changes and DNA fragmentation characteristic of
19 apoptosis in NB4 human promyelocytic leukemia cells *in vitro*. Arsenic trioxide also
20 causes damage or degradation of the fusion protein PML-RAR alpha.

21 Pharmacokinetics

22 The pharmacokinetics of trivalent arsenic, the active species of TRISENOX™, has not
23 been characterized.

24 Metabolism

25 The metabolism of arsenic trioxide involves reduction of pentavalent arsenic to trivalent
26 arsenic by arsenate reductase and methylation of trivalent arsenic to monomethylarsonic
27 acid and monomethylarsonic acid to dimethylarsinic acid by methyltransferases. The
28 main site of methylation reactions appears to be the liver. Arsenic is stored mainly in
29 liver, kidney, heart, lung, hair and nails.

30 Excretion

31 Disposition of arsenic following intravenous administration has not been studied.
32 Trivalent arsenic is mostly methylated in humans and excreted in urine.

33 **Special Populations**

34 The effects of renal or hepatic impairment or gender, age and race on the
35 pharmacokinetics of TRISENOX™ have not been studied (see PRECAUTIONS);

36 **Drug Interactions**

37 No formal assessments of pharmacokinetic drug-drug interactions between
38 TRISENOX™ and other drugs have been conducted. The methyltransferases responsible
39 for metabolizing arsenic trioxide are not members of the cytochrome P450 family of
40 isoenzymes. (see PRECAUTIONS).

41 **Clinical Studies**

42 TRISENOX™ has been investigated in 40 relapsed or refractory APL patients,
43 previously treated with an anthracycline and a retinoid regimen, in an open-label, single-
44 arm, non-comparative study. Patients received 0.15 mg/kg/day intravenously over 1 to 2
45 hours until the bone marrow was cleared of leukemic cells or up to a maximum of 60
46 days. The CR (absence of visible leukemic cells in bone marrow and peripheral recovery
47 of platelets and white blood cells with a confirmatory bone marrow \geq 30 days later) rate
48 in this population of previously treated patients was 28 of 40 (70%). Among the 22
49 patients who had relapsed less than one year after treatment with ATRA, there were 18
50 complete responders (82%). Of the 18 patients receiving TRISENOX™ \geq one year from
51 ATRA treatment, there were 10 complete responders (55%). The median time to bone
52 marrow remission was 44 days and to onset of CR was 53 days. Three of 5 children 5
53 years or older achieved CR. No children less than 5 years old were treated.

54 Three to six weeks following bone marrow remission, thirty-one patients received
55 consolidation therapy with TRISENOX™, at the same dose, for 25 additional days over a
56 period up to 5 weeks. In follow-up treatment, eighteen patients received further arsenic
57 trioxide as a maintenance course. Fifteen patients had bone marrow transplants. At last
58 follow-up, 27 of 40 patients were alive with a median follow-up time of 484 days (range
59 280 to 755) and 23 of 40 patients remained in complete response with a median follow-up
60 time of 483 days (range 280 to 755).

61 Cytogenetic conversion to no detection of the APL chromosome rearrangement was
62 observed in 24 of 28 (86%) patients who met the response criteria defined above, in 5 of
63 5 (100%) patients who met some but not all of the response criteria, and 3 of 7 (43%) of
64 patients who did not respond. Reverse Transcriptase – Polymerase Chain Reaction
65 conversions to no detection of the APL gene rearrangement were demonstrated in 22 of
66 28 (79%) of patients who met the response criteria, in 3 of 5 (60%) of patients who met
67 some but not all of the response criteria, and in 2 of 7 (29%) of patients who did not
68 respond.

69 Responses were seen across all age groups tested, ranging from 6 to 72 years. The
70 ability to achieve a CR was similar for both genders. There were insufficient patients of
71 black, Hispanic or Asian derivation to estimate relative response rates in these groups, but
72 responses were seen in members of each group.

73 Another single center study in 12 patients with relapsed or refractory APL, where patients
74 received TRISENOX™ doses generally similar to the recommended dose, had similar
75 results with 9 of 12 (75%) patients attaining a CR.

76 INDICATIONS

77 TRISENOX™ is indicated for induction of remission and consolidation in patients with
78 acute promyelocytic leukemia (APL) who are refractory to, or have relapsed from,
79 retinoid and anthracycline chemotherapy, and whose APL is characterized by the
80 presence of the t(15;17) translocation or PML/RAR-alpha gene expression.

81 The response rate of other acute myelogenous leukemia subtypes to TRISENOX™ has
82 not been examined.

83 CONTRAINDICATIONS

84 TRISENOX™ is contraindicated in patients who are hypersensitive to arsenic.

85 WARNINGS (see boxed WARNING)

86 TRISENOX™ should be administered under the supervision of a physician who is
87 experienced in the management of patients with acute leukemia.

88 **APL Differentiation Syndrome (see boxed WARNING):** Nine of 40 patients with APL
89 treated with TRISENOX™, at a dose of 0.15 mg/kg, experienced the APL differentiation
90 syndrome (see box WARNING and ADVERSE REACTIONS).

91 **Hyperleukocytosis:** Treatment with TRISENOX™ has been associated with the
92 development of hyperleukocytosis ($\geq 10 \times 10^3/\mu\text{L}$) in 20 of 40 patients. A relationship
93 did not exist between baseline WBC counts and development of hyperleukocytosis nor
94 baseline WBC counts and peak WBC counts. Hyperleukocytosis was not treated with
95 additional chemotherapy. WBC counts during consolidation were not as high as during
96 induction treatment.

97

98 **QT Prolongation (see boxed WARNING):** QT/QTc prolongation should be expected
99 during treatment with arsenic trioxide and torsade de pointes as well as complete heart
100 block has been reported. Over 460 ECG tracings from 40 patients with refractory or
101 relapsed APL treated with TRISENOX™ were evaluated for QTc prolongation. Sixteen
102 of 40 patients (40%) had at least one ECG tracing with a QTc interval greater than 500

103 msec. Prolongation of the QTc was observed between 1 and 5 weeks after TRISENOX™
104 infusion, and then returned towards baseline by the end of 8 weeks after TRISENOX™
105 infusion. In these ECG evaluations, women did not experience more pronounced QT
106 prolongation than men, and there was no correlation with age.

107
108 **Complete AV block:** Complete AV block has been reported with arsenic trioxide in the
109 published literature including a case of a patient with APL.
110

111 **Carcinogenesis:** Carcinogenicity studies have not been conducted with TRISENOX™
112 by intravenous administration. The active ingredient of TRISENOX™, arsenic trioxide,
113 is a human carcinogen.

114

115 **Pregnancy:** TRISENOX™ may cause fetal harm when administered to a pregnant
116 woman. Studies in pregnant mice, rats, hamsters, and primates have shown that inorganic
117 arsenicals cross the placental barrier when given orally or by injection. The reproductive
118 toxicity of arsenic trioxide has been studied in a limited manner. An increase in
119 resorptions, neural-tube defects, anophthalmia and microphthalmia were observed in rats
120 administered 10 mg/kg of arsenic trioxide on gestation day 9 (approximately 10 times the
121 recommended human daily dose on a mg/m² basis). Similar findings occurred in mice
122 administered a 10 mg/kg dose of a related trivalent arsenic, sodium arsenite,
123 (approximately 5 times the projected human dose on a mg/m² basis) on gestation days 6,
124 7, 8 or 9. Intravenous injection of 2 mg/kg sodium arsenite (approximately equivalent to
125 the projected human daily dose on a mg/m² basis) on gestation day 7 (the lowest dose
126 tested) resulted in neural-tube defects in hamsters.

127 There are no studies in pregnant women using TRISENOX™. If this drug is used during
128 pregnancy or if the patient becomes pregnant while taking this drug, the patient should be
129 apprised of the potential harm to the fetus. One patient who became pregnant while
130 receiving arsenic trioxide had a miscarriage. Women of childbearing potential should be
131 advised to avoid becoming pregnant.

132

133 PRECAUTIONS

134

135 **Laboratory Tests:** The patient's electrolyte, hematologic and coagulation profiles should
136 be monitored at least twice weekly, and more frequently for clinically unstable patients
137 during the induction phase and at least weekly during the consolidation phase. ECGs
138 should be obtained weekly, and more frequently for clinically unstable patients, during
139 induction and consolidation.

140 **Drug Interactions:** No formal assessments of pharmacokinetic drug-drug interactions
141 between TRISENOX™ and other agents have been conducted. Caution is advised when
142 TRISENOX™ is coadministered with other medications that can prolong the QT interval

143 (e.g. certain antiarrhythmics or thioridazine) or lead to electrolyte abnormalities (such as
144 diuretics or amphotericin B).

145 **Carcinogenesis, Mutagenesis, Impairment of Fertility:** See WARNINGS section for
146 information on carcinogenesis. Arsenic trioxide and trivalent arsenite salts have not been
147 demonstrated to be mutagenic to bacteria, yeast or mammalian cells. Arsenite salts are
148 clastogenic *in vitro* (human fibroblasts, human lymphocytes, Chinese hamster ovary cells,
149 Chinese hamster V79 lung cells). Trivalent arsenic produced an increase in the incidence
150 of chromosome aberrations and micronuclei in bone marrow cells of mice. The effect of
151 arsenic on fertility has not been adequately studied.

152 **Pregnancy:** Pregnancy Category D. See WARNINGS section.

153 **Nursing Mothers:** Arsenic is excreted in human milk. Because of the potential for
154 serious adverse reactions in nursing infants from TRISENOX™, a decision should be
155 made whether to discontinue nursing or to discontinue the drug, taking into account the
156 importance of the drug to the mother.

157 **Pediatric Use:** There are limited clinical data on the pediatric use of TRISENOX™. Of
158 5 patients below the age of 18 years (age range: 5 to 16 years) treated with
159 TRISENOX™, at the recommended dose of 0.15 mg/kg/day, 3 achieved a complete
160 response.

161 Safety and effectiveness in pediatric patients below the age of 5 years have not been
162 studied.

163 **Patients with Renal or Hepatic Impairment:** Safety and effectiveness of
164 TRISENOX™ in patients with renal and hepatic impairment have not been studied.
165 Particular caution is needed in patients with renal failure receiving TRISENOX™, as
166 renal excretion is the main route of elimination of arsenic.

167 **ADVERSE REACTIONS**

168 Safety information was available for 52 patients with relapsed or refractory APL who
169 participated in clinical trials of TRISENOX™. Forty patients in the Phase 2 study
170 received the recommended dose of 0.15 mg/kg of which 29 completed both induction and
171 consolidation treatment cycles. An additional 12 patients with relapsed or refractory APL
172 received doses generally similar to the recommended dose. Most patients experienced
173 some drug-related toxicity, most commonly leukocytosis, gastrointestinal (nausea,
174 vomiting, diarrhea, and abdominal pain), fatigue, edema, hyperglycemia, dyspnea, cough,
175 rash or itching, headaches, and dizziness. These adverse effects have not been observed to
176 be permanent or irreversible nor do they usually require interruption of therapy.

177 Serious adverse events (SAEs), grade 3 or 4 according to version 2 of the NCI Common
178 Toxicity Criteria, were common. Those SAEs attributed to TRISENOX™ in the Phase 2

179 study of 40 patients with refractory or relapsed APL included APL differentiation
 180 syndrome (n=3), hyperleukocytosis (n=3), QTc interval \geq 500 msec (n=16, 1 with torsade
 181 de pointes), atrial dysrhythmias (n=2), and hyperglycemia (n=2).

182 The following table describes the adverse events that were observed in patients treated for
 183 APL with TRISENOX™ at the recommended dose at a rate of 5% or more. Similar
 184 adverse event profiles were seen in the other patient populations who received
 185 TRISENOX™.

186

Adverse Events (any grade) Occurring in \geq 5% of 40 Patients with APL who Received
 TRISENOX™ at a dose of 0.15 mg/kg/day

System organ class / Adverse Event	All Adverse Events, Any Grade		Grade 3 & 4 Events	
	n	%	n	%
General disorders and administration site conditions				
Fatigue	25	63	2	5
Pyrexia (Fever)	25	63	2	5
Edema – non-specific	16	40		
Rigors	15	38		
Chest pain	10	25	2	5
Injection site pain	8	20		
Pain – non specific	6	15	1	3
Injection site erythema	5	13		
Injection site edema	4	10		
Weakness	4	10	2	5
Hemorrhage	3	8		
Weight gain	5	13		
Weight loss	3	8		
Drug hypersensitivity	2	5	1	3
Gastrointestinal disorders				
Nausea	30	75		
Anorexia	9	23		
Appetite decreased	6	15		
Diarrhea	21	53		
Vomiting	23	58		
Abdominal pain (lower & upper)	23	58	4	10
Sore throat	14	40		
Constipation	11	28	1	3
Loose stools	4	10		
Dyspepsia	4	10		
Oral blistering	3	8		
Fecal incontinence	3	8		
Gastrointestinal hemorrhage	3	8		
Dry mouth	3	8		

**Adverse Events (any grade) Occurring in ≥5% of 40 Patients with APL who Received
TRISENOX™ at a dose of 0.15 mg/kg/day**

System organ class / Adverse Event	All Adverse Events, Any Grade		Grade 3 & 4 Events	
	n	%	n	%
Abdominal tenderness	3	8		
Diarrhea hemorrhagic	3	8		
Abdominal distension	3	8		
Metabolism and nutrition disorders				
Hypokalemia	20	50	5	13
Hypomagnesemia	18	45	5	13
Hyperglycemia	18	45	5	13
ALT increased	8	20	2	5
Hyperkalemia	7	18	2	5
AST increased	5	13	1	3
Hypocalcemia	4	10		
Hypoglycemia	3	8		
Acidosis	2	5		
Nervous system disorders				
Headache	24	60	1	3
Insomnia	17	43	1	3
Parasthesia	13	33	2	5
Dizziness (excluding vertigo)	9	23		
Tremor	5	13		
Convulsion	3	8	2	5
Somnolence	3	8		
Coma	2	5	2	5
Respiratory				
Cough	26	65		
Dyspnea	21	53	4	10
Epistaxis	10	25		
Hypoxia	9	23	4	10
Pleural effusion	8	20	1	3
Post nasal drip	5	13		
Wheezing	5	13		
Decreased breath sounds	4	10		
Creptitations	4	10		
Rales	4	10		
Hemoptysis	3	8		
Tachypnea	3	8		
Rhonchi	3	8		
Skin & subcutaneous tissue disorders				
Dermatitis	17	43		
Pruritus	13	33	1	2
Ecchymosis	8	20		
Dry Skin	6	13		

**Adverse Events (any grade) Occurring in $\geq 5\%$ of 40 Patients with APL who Received
TRISENOX™ at a dose of 0.15 mg/kg/day**

System organ class / Adverse Event	All Adverse Events, Any Grade		Grade 3 & 4 Events	
	n	%	n	%
Erythema- non-specific	5	10		
Increased sweating	5	10		
Facial edema	3	8		
Night sweats	3	8		
Petechiae	3	8		
Hyperpigmentation	3	8		
Non specific skin lesions	3	8		
Urticaria	3	8		
Local exfoliation	2	5		
Eyelid edema	2	5		
Cardiac disorders				
Tachycardia	22	55		
ECG QT corrected interval prolonged > 500msec	16	38		
Palpitations	4	10		
ECG abnormal other than QT interval prolongation	3	7		
Infections and infestations				
Sinusitis	8	20		
Herpes simplex	5	13		
Upper respiratory tract infection	5	13	1	3
Bacterial infection- non-specific	3	8	1	3
Herpes zoster	3	8		
Nasopharyngitis	2	5		
Oral candidiasis	2	5		
Sepsis	2	5	2	5
Musculoskeletal, connective tissue and bone disorders				
Arthralgia	13	33	3	8
Myalgia	10	25	2	5
Bone pain	9	23	4	10
Back pain	7	18	1	3
Neck Pain	5	13		
Pain in limb	5	13	2	5
Hematologic Disorders				
Leukocytosis	20	50	1	3
Anemia	8	14	2	5
Thrombocytopenia	7	19	5	12

**Adverse Events (any grade) Occurring in \geq 5% of 40 Patients with APL who Received
TRISENOX™ at a dose of 0.15 mg/kg/day**

System organ class / Adverse Event	All Adverse Events, Any Grade		Grade 3 & 4 Events	
	n	%	n	%
Febrile neutropenia	5	13	3	8
Neutropenia	4	10	4	10
Disseminated intravascular coagulation	3	8	3	8
Lymphadenopathy	3	8		
Vascular disorders				
Hypotension	10	25	2	5
Flushing	4	10		
Hypertension	4	10		
Pallor	4	10		
Psychiatric Disorders				
Anxiety	12	30		
Depression	8	20		
Agitation	2	5		
Confusion	2	5		
Ocular Disorders				
Eye irritation	4	10		
Blurred vision	4	10		
Dry eye	3	8		
Painful red eye	2	5		
Renal and Urinary Disorders				
Renal failure	3	8	1	3
Renal impairment	3	8		
Oliguria	2	5		
Incontinence	2	5		
Reproductive System Disorders				
Vaginal hemorrhage	5	13		
Intermenstrual bleeding	3	8		
Ear Disorders				
Earache	3	8		
Tinnitus	2	5		

187

188 **OVERDOSAGE**

189 If symptoms suggestive of serious acute arsenic toxicity (e.g., convulsions, muscle
190 weakness and confusion) appear, TRISENOX™ should be immediately discontinued and
191 chelation therapy should be considered. A conventional protocol for acute arsenic
192 intoxication includes dimercaprol administered at a dose of 3 mg/kg intramuscularly
193 every 4 hours until immediate life-threatening toxicity has subsided. Thereafter,

194 penicillamine at a dose of 250 mg orally, up to a maximum frequency of four times per
195 day (≤ 1 gm per day), may be given.

196

197 **DOSAGE AND ADMINISTRATION**

198 TRISENOX™ should be diluted with 100 to 250mL 5% dextrose injection, USP or 0.9%
199 Sodium Chloride injection, USP, using proper aseptic technique, immediately after
200 withdrawal from the ampule. The TRISENOX™ ampule is single-use and does not
201 contain any preservatives. Unused portions of each ampule should be discarded properly.
202 Do not save any unused portions for later administration. Do not mix TRISENOX™
203 with other medications.

204 TRISENOX™ should be administered intravenously over 1-2 hours. The infusion
205 duration may be extended up to 4 hours if acute vasomotor reactions are observed. A
206 central venous catheter is not required.

207 **Stability**

208 After dilution, TRISENOX™ is chemically and physically stable when stored for 24
209 hours at room temperature and 48 hours when refrigerated.

210 **Dosing Regimen**

211 TRISENOX™ is recommended to be given according to the following schedule:

212 **Induction Treatment Schedule:** TRISENOX™ should be administered intravenously at
213 a dose of 0.15 mg/kg daily until bone marrow remission. Total induction dose should not
214 exceed 60 doses.

215 **Consolidation Treatment Schedule:** Consolidation treatment should begin 3 to 6 weeks
216 after completion of induction therapy. TRISENOX™ should be administered
217 intravenously at a dose of 0.15 mg/kg daily for 25 doses over a period up to 5 weeks.

218 **HANDLING AND DISPOSAL**

219 Procedures for proper handling and disposal of anticancer drugs should be considered.
220 Several guidelines on this subject have been published.¹⁻⁷ There is no general agreement
221 that all of the procedures recommended in the guidelines are necessary or appropriate.

222 **HOW SUPPLIED**

223 TRISENOX™ (arsenic trioxide) injection is supplied as a sterile, clear, colorless solution
224 in 10 mL glass, single use ampules.

225 NDC 60553-111-10 10 mg/10 mL (1 mg/mL) ampule in packages of ten ampules.
226 Store at 25°C (77°F); excursions permitted to 15 - 30°C (59 - 86°F). Do not freeze.
227 Do not use beyond expiration date printed on the label.

228 **REFERENCES**

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249 **Rx only**

250 For additional information, contact Cell Therapeutics, Inc.
251 Professional Services at 1-800-715-0944
252 Customer Service at 1-888-305-2289.

253 **Manufactured for:**

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