



intravenously administered every 12 hours for 3 days or until resolution of symptoms, should be initiated without delay at the first suspicion of symptoms (one or more of the following: fever, dyspnea, weight gain, abnormal chest auscultatory findings or radiographic abnormalities). Sixty percent or more of patients treated with tretinoin capsules may require high-dose steroids because of these symptoms. The majority of patients do not require termination of tretinoin capsules therapy during treatment of the syndrome.

#### Body as a Whole

General disorders related to tretinoin capsules administration and/or associated with APL included malaise (66%), shivering (63%), hemorrhage (60%), infections (58%), peripheral edema (52%), pain (37%), chest discomfort (32%), edema (29%), disseminated intravascular coagulation (26%), weight increase (23%), injection site reactions (17%), anorexia (17%), weight decrease (17%), myalgia (14%), flank pain (9%), cellulitis (8%), face edema (6%), fluid imbalance (6%), pallor (6%), lymph disorders (6%), acidosis (3%), hypothermia (3%), ascites (3%).

#### Respiratory System Disorders

Respiratory system disorders were commonly reported in APL patients administered tretinoin capsules. The majority of these events are symptoms of the RA-APL syndrome (see **boxed WARNINGS**). Respiratory system adverse events included upper respiratory tract disorders (63%), dyspnea (60%), respiratory insufficiency (26%), pleural effusion (20%), pneumonia (14%), rales (14%), expiratory wheezing (14%), lower respiratory tract disorders (9%), pulmonary infiltration (6%), bronchial asthma (3%), pulmonary edema (3%), larynx edema (3%), unspecified pulmonary disease (3%).

#### Ear Disorders

Ear disorders were consistently reported, with earache or feeling of fullness in the ears reported by 23% of the patients. Hearing loss and other unspecified auricular disorders were observed in 6% of patients, with infrequent (<1%) reports of irreversible hearing loss.

#### Gastrointestinal Disorders

GI disorders included GI hemorrhage (34%), abdominal pain (31%), other gastrointestinal disorders (26%), diarrhea (23%), constipation (17%), dyspepsia (14%), abdominal distention (11%), hepatosplenomegaly (9%), hepatitis (3%), ulcer (3%), unspecified liver disorder (3%).

#### Cardiovascular and Heart Rate and Rhythm Disorders

Arrhythmias (23%), flushing (23%), hypotension (14%), hypertension (11%), phlebitis (11%), cardiac failure (6%) and for 3% of patients: cardiac arrest, myocardial infarction, enlarged heart, heart murmur, ischemia, stroke, myocarditis, pericarditis, pulmonary hypertension, secondary cardiomyopathy.

#### Central and Peripheral Nervous System Disorders and Psychiatric

Dizziness (20%), paresthesias (17%), anxiety (17%), insomnia (14%), depression (14%), confusion (11%), cerebral hemorrhage (9%), intracranial hypertension (9%), agitation (9%), hallucination (6%) and for 3% of patients: abnormal gait, agnosia, aphasia, asterixis, cerebellar edema, cerebellar disorders, convulsions, coma, CNS depression, dysarthria, encephalopathy, facial paralysis, hemiplegia, hyporeflexia, hypotaxia, no light reflex, neurologic reaction, spinal cord disorder, tremor, leg weakness, unconsciousness, dementia, forgetfulness, somnolence, slow speech.

#### Urinary System Disorders

Renal insufficiency (11%), dysuria (9%), acute renal failure (3%), micturition frequency (3%), renal tubular necrosis (3%), enlarged prostate (3%).

#### Miscellaneous Adverse Events

Isolated cases of erythema nodosum, basophilia and hyperhistaminemia, Sweet's syndrome, organomegaly, hypercalcemia, pancreatitis and myositis have been reported.

#### Additional Adverse Reactions Reported With Tretinoin Capsules

##### Cardiovascular

Cases of thrombosis (both venous and arterial) involving various sites (e.g., cerebrovascular accident, myocardial infarction, renal infarct) have been reported rarely (see **PRECAUTIONS: General**).

##### Hematologic

Rare cases of thrombocytosis have been reported.

##### Skin

##### Genital ulceration

##### Miscellaneous Adverse Events

Rare cases of vasculitis, predominantly involving the skin, have been reported.

#### OVERDOSAGE

In case of overdose with Tretinoin, reversible signs of hypervitaminosis A (headache, nausea, vomiting, mucocutaneous symptoms) can appear. The maximal tolerated dose in patients with myelodysplastic syndrome or solid tumors was 195 mg/m<sup>2</sup>/day. The maximal tolerated dose in pediatric patients was lower at 60 mg/m<sup>2</sup>/day. Overdosage with other retinoids has been associated with transient headache, facial flushing, cheilosis, abdominal pain, dizziness and ataxia. These symptoms have quickly resolved without apparent residual effects.

There is no specific treatment in the case of an overdose; however, it is important that the patient be treated in a special hematological unit.

#### DOSAGE AND ADMINISTRATION

The recommended dose is 45 mg/m<sup>2</sup>/day administered as two evenly divided doses until complete remission is documented. Therapy should be discontinued 30 days after achievement of complete remission or after 90 days of treatment, whichever occurs first.

If after initiation of treatment of Tretinoin Capsules the presence of the t(15;17) translocation is not confirmed by cytogenetics and/or by polymerase chain reaction studies and the patient has not responded to tretinoin capsules, alternative therapy appropriate for acute myelogenous leukemia should be considered.

**Tretinoin Capsules are for the induction of remission only.** Optimal consolidation or maintenance regimens have not been determined. All patients should, therefore, receive a standard consolidation and/or maintenance chemotherapy regimen for APL after induction therapy with tretinoin capsules, unless otherwise contraindicated.

#### HOW SUPPLIED

Tretinoin Capsules are supplied as 10 mg capsules, two-tone (lengthwise) with reddish-brown opaque and yellow gelatin shell, imprinted with "TR" with black ink on the yellow side. Supplied in high-density polyethylene, opaque bottles of 100 capsules with child-resistant closure.

Bottle of 100.....NDC# 10370-268-01

Store at 20° to 25°C (68° to 77°F) [see USP controlled room temperature]. Protect from light.

Manufactured for:  
**Par Pharmaceutical**  
Chestnut Ridge, NY 10977

Made in France

Revised: 12/18

OS268B-01-82-03