

## HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use JEV TANA safely and effectively. See full prescribing information for JEV TANA.

JEV TANA (cabazitaxel) Injection, 60 mg/1.5 mL,  
for intravenous infusion only  
Initial U.S. Approval: 2010

### WARNING

See full prescribing information for complete boxed warning.

- Neutropenic deaths have been reported. Obtain frequent blood counts to monitor for neutropenia. Do not give JEV TANA if neutrophil counts are  $\leq 1,500$  cells/mm<sup>3</sup>. (2.2) (4)
- Severe hypersensitivity can occur and may include generalized rash/erythema, hypotension and bronchospasm. Discontinue JEV TANA immediately if severe reactions occur and administer appropriate therapy. (2.3) (5.2)
- Contraindicated if history of severe hypersensitivity reactions to JEV TANA or to drugs formulated with polysorbate 80. (4)

### INDICATIONS AND USAGE

JEV TANA is a microtubule inhibitor indicated in combination with prednisone for treatment of patients with hormone-refractory metastatic prostate cancer previously treated with a docetaxel-containing treatment regimen. (1)

### DOSAGE AND ADMINISTRATION

**Recommended dose:** JEV TANA 25 mg/m<sup>2</sup> administered every three weeks as a one-hour intravenous infusion in combination with oral prednisone 10 mg administered daily throughout JEV TANA treatment. (2.1)

- JEV TANA requires two dilutions prior to administration (2.5)
- Use the **entire** contents of the accompanying diluent to achieve a concentration of 10 mg/mL JEV TANA. (2.5)
- PVC equipment should not be used (2.5)
- **Premedication Regimen:** Administer intravenously 30 minutes before each dose of JEV TANA:
  - Antihistamine (dexchlorpheniramine 5 mg or diphenhydramine 25 mg or equivalent antihistamine)
  - Corticosteroid (dexamethasone 8 mg or equivalent steroid)
  - H<sub>2</sub> antagonist (ranitidine 50 mg or equivalent H<sub>2</sub> antagonist) (2.3)

Antiemetic prophylaxis (oral or intravenous) is recommended as needed. (2.3)

- **Dosage Modifications:** See full prescribing information (2.2)

### DOSAGE FORMS AND STRENGTHS

- Single use vial 60 mg/1.5 mL, supplied with diluent (5.7 mL) for JEV TANA (3)

### CONTRAINDICATIONS

- Neutrophil counts of  $\leq 1,500$ /mm<sup>3</sup> (2.2) (4)
- History of severe hypersensitivity to JEV TANA or polysorbate 80 (4)

### WARNINGS AND PRECAUTIONS

- Neutropenia, febrile neutropenia: Neutropenic deaths have been reported. Monitor blood counts frequently to determine if initiation of G-CSF and/or dosage modification is needed. Primary prophylaxis with G-CSF should be considered in patients with high-risk clinical features. (2.2)(4)(5.1)
- Hypersensitivity: Severe hypersensitivity reactions can occur. Premedicate with corticosteroids and H<sub>2</sub> antagonists. Discontinue infusion immediately if hypersensitivity is observed and treat as indicated. (4)(5.2)
- Gastrointestinal symptoms (nausea, vomiting, diarrhea): Mortality related to diarrhea has been reported. Rehydrate and treat with anti-emetics and anti-diarrheals as needed. If experiencing Grade  $\geq 3$  diarrhea, dosage should be modified. (2.2) (5.3)
- Renal failure, including cases with fatal outcomes, has been reported. Identify cause and manage aggressively. (5.4)
- Elderly patients: Patients  $\geq 65$  years of age were more likely to experience fatal outcomes not related to disease progression and certain adverse reactions, including neutropenia and febrile neutropenia. Monitor closely (5.5) (6) (8.5).
- Hepatic impairment: Patients with impaired hepatic function were excluded from the randomized clinical trial. Hepatic impairment is likely to increase the cabazitaxel concentrations. JEV TANA should not be given to patients with hepatic impairment. (5.6) (8.7)
- JEV TANA can cause fetal harm when administered to a pregnant woman. (5.7)(8.1)

### ADVERSE REACTIONS

Most common all grades adverse reactions ( $\geq 10\%$ ) are neutropenia, anemia, leukopenia, thrombocytopenia, diarrhea, fatigue, nausea, vomiting, constipation, asthenia, abdominal pain, hematuria, back pain, anorexia, peripheral neuropathy, pyrexia, dyspnea, dysgeusia, cough, arthralgia, and alopecia. (6)

To report SUSPECTED ADVERSE REACTIONS, contact sanofi-aventis U.S. LLC at 1-800-633-1610 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

### DRUG INTERACTIONS

- Use with caution in patients taking concomitant medicines that induce or inhibit CYP3A. (7)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

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## FULL PRESCRIBING INFORMATION

### WARNING

Neutropenic deaths have been reported. In order to monitor the occurrence of neutropenia, frequent blood cell counts should be performed on all patients receiving JEV TANA. JEV TANA should not be given to patients with neutrophil counts of  $\leq 1,500$  cells/mm<sup>3</sup>.

Severe hypersensitivity reactions can occur and may include generalized rash/erythema, hypotension and bronchospasm. Severe hypersensitivity reactions require immediate discontinuation of the JEV TANA infusion and administration of appropriate therapy [see *Warnings and Precautions (5.2)*]. Patients should receive premedication [see *Dosage and Administrations (2.3)*]. JEV TANA must not be given to patients who have a history of severe hypersensitivity reactions to JEV TANA or to other drugs formulated with polysorbate 80 [see *Contraindications (4)*].

## 1 INDICATIONS AND USAGE

JEV TANA<sup>®</sup> is a microtubule inhibitor indicated in combination with prednisone for the treatment of patients with hormone-refractory metastatic prostate cancer previously treated with a docetaxel-containing treatment regimen.

## 2 DOSAGE AND ADMINISTRATION

### 2.1 General Dosing Information

- The individual dosage of JEV TANA is based on calculation of the Body Surface Area (BSA) and is 25 mg/m<sup>2</sup> administered as a one-hour intravenous infusion every three weeks in combination with oral prednisone 10 mg administered daily throughout JEV TANA treatment.
- Premedication is recommended prior to treatment [see *Dosage and Administration (2.3)*].
- JEV TANA should be administered under the supervision of a qualified physician experienced in the use of antineoplastic medicinal products. Appropriate management of complications is possible only when the adequate diagnostic and treatment facilities are readily available.
- JEV TANA Injection single-use vial requires two dilutions prior to administration [see *Dosage and Administration (2.5)*].
- Do not use PVC infusion containers and polyurethane infusions sets for preparation and administration of JEV TANA infusion solution [see *Dosage and Administration (2.5)*].
- Both the JEV TANA Injection and the diluent vials contain an overfill to compensate for liquid loss during preparation.

## 2.2 Dose Modifications

The JEV TANA dose should be reduced to 20 mg/m<sup>2</sup> if patients experience the following adverse reactions.

**Table 1: Recommended Dosage Modifications for Adverse Reactions in Patients Treated with JEV TANA**

Toxicity	Dosage Modification
Prolonged grade $\geq 3$ neutropenia (greater than 1 week) despite appropriate medication including G-CSF	Delay treatment until neutrophil count is $> 1,500$ cells/mm <sup>3</sup> , then reduce dosage of JEV TANA to 20 mg/m <sup>2</sup> . Use G-CSF for secondary prophylaxis.
Febrile neutropenia	Delay treatment until improvement or resolution, and until neutrophil count is $> 1,500$ cells/mm <sup>3</sup> , then reduce dosage of JEV TANA to 20 mg/m <sup>2</sup> . Use G-CSF for secondary prophylaxis.
Grade $\geq 3$ diarrhea or persisting diarrhea despite appropriate medication, fluid and electrolytes replacement	Delay treatment until improvement or resolution, then reduce dosage of JEV TANA to 20 mg/m <sup>2</sup> .

Discontinue JEV TANA treatment if a patient continues to experience any of these reactions at 20 mg/m<sup>2</sup>.

## 2.3 Premedication

Premedicate at least 30 minutes prior to each dose of JEV TANA with the following intravenous medications to reduce the risk and/or severity of hypersensitivity:

- antihistamine (dexchlorpheniramine 5 mg, or diphenhydramine 25 mg or equivalent antihistamine),
- corticosteroid (dexamethasone 8 mg or equivalent steroid),
- H<sub>2</sub> antagonist (ranitidine 50 mg or equivalent H<sub>2</sub> antagonist).

Antiemetic prophylaxis is recommended and can be given orally or intravenously as needed.

## 2.4 Administration Precautions

JEV TANA is a cytotoxic anticancer drug and caution should be exercised when handling and preparing JEV TANA solutions, taking into account the use of containment devices, personal protective equipment (e.g., gloves), and preparation procedures. Please refer to *Handling and Disposal* (16.3).

If JEV TANA Injection, first diluted solution, or second (final) dilution for intravenous infusion should come into contact with the skin, immediately and thoroughly wash with soap and water.

If JEV TANA Injection, first diluted solution, or second (final) dilution for intravenous infusion should come into contact with mucosa, immediately and thoroughly wash with water.

## 2.5 Instructions for Preparation

Do not use PVC infusion containers or polyurethane infusions sets for preparation and administration of JEV TANA infusion solution.

Read this entire section carefully before mixing and diluting. JEV TANA requires **two** dilutions prior to administration. Please follow the preparation instructions provided below. **Note:** Both the JEV TANA Injection and the diluent vials contain an overfill to compensate for liquid loss during preparation. This overfill ensures that after dilution with the **entire** contents of the accompanying diluent, there is an initial diluted solution containing 10 mg/mL JEV TANA.

The following two-step dilution process must be carried out under aseptic conditions to prepare the second (final) infusion solution.

Set aside the JEV TANA Injection and supplied diluent vials. The JEV TANA Injection is a clear yellow to brownish-yellow viscous solution, if appropriately stored.

### Step 1 – First Dilution

Each vial of JEV TANA (cabazitaxel) 60 mg/1.5 mL must first be mixed with the **entire contents** of supplied diluent. Once reconstituted, the resultant solution contains 10 mg/mL of JEV TANA.

When transferring the diluent, direct the needle onto the inside wall of JEV TANA vial and inject slowly to limit foaming. Remove the syringe and needle and gently mix the initial diluted solution by repeated inversions for at least 45 seconds to assure full mixing of the drug and diluent. Do not shake.

Let the solution stand for a few minutes to allow any foam to dissipate, and check that the solution is homogeneous and contains no visible particulate matter. It is not required that all foam dissipate prior to continuing the preparation process.

The resulting initial diluted JEV TANA solution (cabazitaxel 10 mg/mL) requires further dilution before administration. The second dilution should be done immediately (within 30 minutes) to obtain the final infusion as detailed in Step 2.

### Step 2 – Second (Final) Dilution

Withdraw the recommended dose from the JEV TANA solution containing 10 mg/mL as prepared in Step 1 using a calibrated syringe and further dilute into a sterile 250 mL PVC-free container of either 0.9% sodium chloride solution or 5% dextrose solution for infusion. If a dose greater than 65 mg of JEV TANA is required, use a larger volume of the infusion vehicle so that a concentration of 0.26 mg/mL JEV TANA is not exceeded. The concentration of the JEV TANA final infusion solution should be between 0.10 mg/mL and 0.26 mg/mL.

JEVTANA should not be mixed with any other drugs.

Remove the syringe and thoroughly mix the final infusion solution by gently inverting the bag or bottle.

JEVTANA final infusion solution (in either 0.9% sodium chloride solution or 5% dextrose solution) should be used within 8 hours at ambient temperature (including the one-hour infusion) or within a total of 24 hours if refrigerated (including the one-hour infusion).

As the final infusion solution is supersaturated, it may crystallize over time. Do not use if this occurs and discard.

Inspect visually for particulate matter, any crystals and discoloration prior to administration. If the JEV TANA first diluted solution or second (final) infusion solution is not clear or appears to have precipitation, it should be discarded.

Discard any unused portion.

## **2.6 Administration**

The final JEV TANA infusion solution should be administered intravenously as a one-hour infusion at room temperature.

Use an in-line filter of 0.22 micrometer nominal pore size during administration.

The final JEV TANA infusion solution should be used immediately. However, in-use storage time can be longer under specific conditions, i.e., 8 hours under ambient conditions (including the one-hour infusion) or for a total of 24 hours if refrigerated (including the one-hour infusion) [*see Dosage and Administration (2.5)*].

## **3 DOSAGE FORMS AND STRENGTHS**

JEVTANA (cabazitaxel) Injection 60 mg/1.5 mL is supplied as a kit consisting of the following:

- JEV TANA Injection 60 mg/1.5 mL: contains 60 mg cabazitaxel in 1.5 mL polysorbate 80,
- Diluent for JEV TANA Injection 60 mg/1.5 mL: contains approximately 5.7 mL of 13% (w/w) ethanol in water for injection.

## **4 CONTRAINDICATIONS**

JEVTANA should not be used in patients with neutrophil counts of  $\leq 1,500/\text{mm}^3$ .

JEVTANA is contraindicated in patients who have a history of severe hypersensitivity reactions to cabazitaxel or to other drugs formulated with polysorbate 80.

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Neutropenia

Five patients experienced fatal infectious adverse events (sepsis or septic shock). All had grade 4 neutropenia and one had febrile neutropenia. One additional patient's death was attributed to neutropenia without a documented infection.

G-CSF may be administered to reduce the risks of neutropenia complications associated with JEV TANA use. Primary prophylaxis with G-CSF should be considered in patients with high-risk clinical features (age > 65 years, poor performance status, previous episodes of febrile neutropenia, extensive prior radiation ports, poor nutritional status, or other serious comorbidities) that predispose them to increased complications from prolonged neutropenia. Therapeutic use of G-CSF and secondary prophylaxis should be considered in all patients considered to be at increased risk for neutropenia complications.

Monitoring of complete blood counts is essential on a weekly basis during cycle 1 and before each treatment cycle thereafter so that the dose can be adjusted, if needed [see *Dosage and Administration* (2.2)].

JEV TANA should not be administered to patients with neutrophils  $\leq 1,500/\text{mm}^3$  [see *Contraindications* (4)].

If a patient experiences febrile neutropenia or prolonged neutropenia (greater than one week) despite appropriate medication (e.g., G-CSF), the dose of JEV TANA should be reduced [see *Dosage and Administration* (2.2)]. Patients can restart treatment with JEV TANA only when neutrophil counts recover to a level  $> 1,500/\text{mm}^3$  [see *Contraindications* (4)].

### 5.2 Hypersensitivity Reactions

All patients should be premedicated prior to the initiation of the infusion of JEV TANA [see *Dosage and Administration* (2.3)]. Patients should be observed closely for hypersensitivity reactions, especially during the first and second infusions. Hypersensitivity reactions may occur within a few minutes following the initiation of the infusion of JEV TANA, thus facilities and equipment for the treatment of hypotension and bronchospasm should be available. Severe hypersensitivity reactions can occur and may include generalized rash/erythema, hypotension and bronchospasm. Severe hypersensitivity reactions require immediate discontinuation of the JEV TANA infusion and appropriate therapy. Patients with a history of severe hypersensitivity reactions should not be re-challenged with JEV TANA [see *Contraindications* (4)].

### 5.3 Gastrointestinal Symptoms

Nausea, vomiting and severe diarrhea, at times, may occur. Death related to diarrhea and electrolyte imbalance occurred in the randomized clinical trial. Intensive measures may be required for severe diarrhea and electrolyte imbalance. Patients should be treated with



rehydration, anti-diarrheal or anti-emetic medications as needed. Treatment delay or dosage reduction may be necessary if patients experience Grade  $\geq 3$  diarrhea [*see Dosage and Administration (2.2)*].

## 5.4 Renal Failure

Renal failure, including four cases with fatal outcome, was reported in the randomized clinical trial. Most cases occurred in association with sepsis, dehydration, or obstructive uropathy [*see Adverse Reactions (6.1)*]. Some deaths due to renal failure did not have a clear etiology. Appropriate measures should be taken to identify causes of renal failure and treat aggressively.

## 5.5 Elderly Patients

In the randomized clinical trial, 3 of 131 (2%) patients  $< 65$  years of age and 15 of 240 (6%)  $\geq 65$  years of age died of causes other than disease progression within 30 days of the last cabazitaxel dose. Patients  $\geq 65$  years of age are more likely to experience certain adverse reactions, including neutropenia and febrile neutropenia [*see Adverse Reactions (6) and Use in Specific Populations (8.5)*].

## 5.6 Hepatic Impairment

No dedicated hepatic impairment trial for JEV TANA has been conducted. Patients with impaired hepatic function (total bilirubin  $\geq$  ULN, or AST and/or ALT  $\geq 1.5 \times$  ULN) were excluded from the randomized clinical trial.

Cabazitaxel is extensively metabolized in the liver, and hepatic impairment is likely to increase cabazitaxel concentrations.

Hepatic impairment increases the risk of severe and life-threatening complications in patients receiving other drugs belonging to the same class as JEV TANA. JEV TANA should not be given to patients with hepatic impairment (total bilirubin  $\geq$  ULN, or AST and/or ALT  $\geq 1.5 \times$  ULN).

## 5.7 Pregnancy

Pregnancy category D.

JEV TANA can cause fetal harm when administered to a pregnant woman. In non-clinical studies in rats and rabbits, cabazitaxel was embryotoxic, fetotoxic, and abortifacient at exposures significantly lower than those expected at the recommended human dose level.

There are no adequate and well-controlled studies in pregnant women using JEV TANA. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus. Women of childbearing potential should be advised to avoid becoming pregnant during treatment with JEV TANA [*see Use in Specific Populations (8.1)*].



## 6 ADVERSE REACTIONS

The following serious adverse reactions are discussed in greater detail in another section of the label:

- Neutropenia [*see Warnings and Precautions (5.1)*].
- Hypersensitivity Reactions [*see Warnings and Precautions (5.2)*].
- Gastrointestinal Symptoms [*see Warnings and Precautions (5.3)*].
- Renal Failure [*see Warnings and Precautions (5.4)*].

### 6.1 Clinical Trial Experience

Because clinical trials are conducted under widely varying conditions, the adverse reaction rates observed cannot be directly compared to rates in other trials and may not reflect the rates observed in clinical practice.

The safety of JEV TANA in combination with prednisone was evaluated in 371 patients with hormone-refractory metastatic prostate cancer treated in a single randomized trial, compared to mitoxantrone plus prednisone.

Deaths due to causes other than disease progression within 30 days of last study drug dose were reported in 18 (5%) JEV TANA-treated patients and 3 (< 1%) mitoxantrone-treated patients. The most common fatal adverse reactions in JEV TANA-treated patients were infections (n=5) and renal failure (n=4). The majority (4 of 5 patients) of fatal infection-related adverse reactions occurred after a single dose of JEV TANA. Other fatal adverse reactions in JEV TANA-treated patients included ventricular fibrillation, cerebral hemorrhage, and dyspnea.

The most common ( $\geq 10\%$ ) grade 1-4 adverse reactions were anemia, leukopenia, neutropenia, thrombocytopenia, diarrhea, fatigue, nausea, vomiting, constipation, asthenia, abdominal pain, hematuria, back pain, anorexia, peripheral neuropathy, pyrexia, dyspnea, dysgeusia, cough, arthralgia, and alopecia.

The most common ( $\geq 5\%$ ) grade 3-4 adverse reactions in patients who received JEV TANA were neutropenia, leukopenia, anemia, febrile neutropenia, diarrhea, fatigue, and asthenia.

Treatment discontinuations due to adverse drug reactions occurred in 18% of patients who received JEV TANA and 8% of patients who received mitoxantrone. The most common adverse reactions leading to treatment discontinuation in the JEV TANA group were neutropenia and renal failure. Dose reductions were reported in 12% of JEV TANA-treated patients and 4% of mitoxantrone-treated patients. Dose delays were reported in 28% of JEV TANA-treated patients and 15% of mitoxantrone-treated patients.

**Table 2 – Incidence of Reported Adverse Reactions<sup>1</sup> and Hematologic Abnormalities in ≥ 5% of Patients Receiving JEV TANA in Combination with Prednisone or Mitoxantrone in Combination with Prednisone**

	JEV TANA 25 mg/m <sup>2</sup> every 3 weeks with prednisone 10 mg daily n=371		Mitoxantrone 12 mg/m <sup>2</sup> every 3 weeks with prednisone 10 mg daily n=371	
	Grade 1-4 n (%)	Grade 3-4 n (%)	Grade 1-4 n (%)	Grade 3-4 n (%)
<b>Any Adverse Reaction</b>				
<b>Blood and Lymphatic System Disorders</b>				
Neutropenia <sup>2</sup>	347 (94%)	303 (82%)	325 (87%)	215 (58%)
Febrile Neutropenia	27 (7%)	27 (7%)	5 (1%)	5 (1%)
Anemia <sup>2</sup>	361 (98%)	39 (11%)	302 (82%)	18 (5%)
Leukopenia <sup>2</sup>	355 (96%)	253 (69%)	343 (93%)	157 (42%)
Thrombocytopenia <sup>2</sup>	176 (48%)	15 (4%)	160 (43%)	6 (2%)
<b>Cardiac Disorders</b>				
Arrhythmia <sup>3</sup>	18 (5%)	4 (1%)	6 (2%)	1 (< 1%)
<b>Gastrointestinal Disorders</b>				
Diarrhea	173 (47%)	23 (6%)	39 (11%)	1 (< 1%)
Nausea	127 (34%)	7 (2%)	85 (23%)	1 (< 1%)
Vomiting	83 (22%)	6 (2%)	38 (10%)	0
Constipation	76 (20%)	4 (1%)	57 (15%)	2 (< 1%)
Abdominal Pain <sup>4</sup>	64 (17%)	7 (2%)	23 (6%)	0
Dyspepsia <sup>5</sup>	36 (10%)	0	9 (2%)	0
<b>General Disorders and Administration Site Conditions</b>				
Fatigue	136 (37%)	18 (5%)	102 (27%)	11 (3%)
Asthenia	76 (20%)	17 (5%)	46 (12%)	9 (2%)
Pyrexia	45 (12%)	4 (1%)	23 (6%)	1 (< 1%)
Peripheral Edema	34 (9%)	2 (< 1%)	34 (9%)	2 (< 1%)
Mucosal Inflammation	22 (6%)	1 (< 1%)	10 (3%)	1 (< 1%)
Pain	20 (5%)	4 (1%)	18 (5%)	7 (2%)
<b>Infections and Infestations</b>				
Urinary Tract Infection <sup>6</sup>	29 (8%)	6 (2%)	12 (3%)	4 (1%)
<b>Investigations</b>				
Weight Decreased	32 (9%)	0	28 (8%)	1 (< 1%)
<b>Metabolism and Nutrition Disorders</b>				
Anorexia	59 (16%)	3 (< 1%)	39 (11%)	3 (< 1%)
Dehydration	18 (5%)	8 (2%)	10 (3%)	3 (< 1%)
<b>Musculoskeletal and Connective Tissue Disorders</b>				
Back Pain	60 (16%)	14 (4%)	45 (12%)	11 (3%)
Arthralgia	39 (11%)	4 (1%)	31 (8%)	4 (1%)
Muscle Spasms	27 (7%)	0	10 (3%)	0
<b>Nervous System Disorders</b>				
Peripheral Neuropathy <sup>7</sup>	50 (13%)	3 (< 1%)	12 (3.2%)	3 (< 1%)
Dysgeusia	41 (11%)	0	15 (4%)	0
Dizziness	30 (8%)	0	21 (6%)	2 (< 1%)
Headache	28 (8%)	0	19 (5%)	0
<b>Renal and Urinary Tract Disorders</b>				
Hematuria	62 (17%)	7 (2%)	13 (4%)	1 (< 1%)

Dysuria	25 (7%)	0	5 (1%)	0
<b>Respiratory, Thoracic and Mediastinal Disorders</b>				
Dyspnea	43 (12%)	4 (1%)	16 (4%)	2 (< 1%)
Cough	40 (11%)	0	22 (6%)	0
<b>Skin and Subcutaneous Tissue Disorders</b>				
Alopecia	37 (10%)	0	18 (5%)	0
<b>Vascular Disorders</b>				
Hypotension	20 (5%)	2 (<1 %)	9 (2%)	1 (< 1%)
<hr/>				
<b>Median Duration of Treatment</b>	6 cycles		4 cycles	

<sup>1</sup>Graded using NCI CTCAE version 3

<sup>2</sup>Based on laboratory values, cabazitaxel: n = 369, mitoxantrone: n = 370.

<sup>3</sup>Includes atrial fibrillation, atrial flutter, atrial tachycardia, atrioventricular block complete, bradycardia, palpitations, supraventricular tachycardia, tachyarrhythmia, and tachycardia.

<sup>4</sup>Includes abdominal discomfort, abdominal pain lower, abdominal pain upper, abdominal tenderness, and GI pain.

<sup>5</sup>Includes gastroesophageal reflux disease and reflux gastritis.

<sup>6</sup>Includes urinary tract infection enterococcal and urinary tract infection fungal.

<sup>7</sup>Includes peripheral motor neuropathy and peripheral sensory neuropathy.

### Neutropenia and Associated Clinical Events:

Five patients experienced fatal infectious adverse events (sepsis or septic shock). All had grade 4 neutropenia and one had febrile neutropenia. One additional patient's death was attributed to neutropenia without a documented infection. Twenty-two (6%) patients discontinued JEVTANA treatment due to neutropenia, febrile neutropenia, infection, or sepsis. The most common adverse reaction leading to treatment discontinuation in the JEVTANA group was neutropenia (2%).

### Hematuria:

Adverse events of hematuria, including those requiring medical intervention, were more common in JEVTANA-treated patients. The incidence of grade  $\geq 2$  hematuria was 6% in JEVTANA-treated patients and 2% in mitoxantrone-treated patients. Other factors associated with hematuria were well-balanced between arms and do not account for the increased rate of hematuria on the JEVTANA arm.

### Hepatic Laboratory Abnormalities:

The incidences of grade 3-4 increased AST, increased ALT, and increased bilirubin were each  $\leq 1\%$ .

### Elderly Population:

The following grade 1-4 adverse reactions were reported at rates  $\geq 5\%$  higher in patients 65 years of age or greater compared to younger patients: fatigue (40% vs. 30%), neutropenia (97% vs. 89%), asthenia (24% vs. 15%), pyrexia (15% vs. 8%), dizziness (10% vs. 5%), urinary tract infection (10% vs. 3%) and dehydration (7% vs. 2%), respectively.

The incidence of the following grade 3-4 adverse reactions were higher in patients  $\geq 65$  years of age compared to younger patients; neutropenia (87% vs. 74%), and febrile neutropenia (8% vs. 6%) [see *Use in Specific Populations* (8.5)].

## 7 DRUG INTERACTIONS

No formal clinical drug-drug interaction trials have been conducted with JEV TANA.

Prednisone or prednisolone administered at 10 mg daily did not affect the pharmacokinetics of cabazitaxel.

### 7.1 Drugs That May Increase Cabazitaxel Plasma Concentrations

**CYP3A4 Inhibitors:** Cabazitaxel is primarily metabolized through CYP3A [see *Clinical Pharmacology* (12.3)]. Though no formal drug interaction trials have been conducted for JEV TANA, concomitant administration of strong CYP3A inhibitors (e.g., ketoconazole, itraconazole, clarithromycin, atazanavir, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin, voriconazole) is expected to increase concentrations of cabazitaxel. Therefore, co-administration with strong CYP3A inhibitors should be avoided. Caution should be exercised with concomitant use of moderate CYP3A inhibitors.

### 7.2 Drugs That May Decrease Cabazitaxel Plasma Concentrations

**CYP3A4 Inducers:** Though no formal drug interaction trials have been conducted for JEV TANA, the concomitant administration of strong CYP3A inducers (e.g., phenytoin, carbamazepine, rifampin, rifabutin, rifapentin, phenobarbital) is expected to decrease cabazitaxel concentrations. Therefore, co-administration with strong CYP3A inducers should be avoided. In addition, patients should also refrain from taking St. John's Wort.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

Pregnancy category D. See 'Warnings and Precautions' section.

JEV TANA can cause fetal harm when administered to a pregnant woman. There are no adequate and well-controlled studies of JEV TANA in pregnant women.

Non-clinical studies in rats and rabbits have shown that cabazitaxel is embryotoxic, fetotoxic, and abortifacient. Cabazitaxel was shown to cross the placenta barrier within 24 hours of a single intravenous administration of a 0.08 mg/kg dose (approximately 0.02 times the maximum recommended human dose-MRHD) to pregnant rats at gestational day 17.

Cabazitaxel administered once daily to female rats during organogenesis at a dose of 0.16 mg/kg/day (approximately 0.02-0.06 times the C<sub>max</sub> in patients with cancer at the recommended human dose) caused maternal and embryofetal toxicity consisting of increased post-implantation loss, embryoletality, and fetal deaths. Decreased mean fetal birth weight associated with delays in skeletal ossification were observed at doses  $\geq$  0.08 mg/kg (approximately 0.02 times the C<sub>max</sub> at the MRHD). *In utero* exposure to cabazitaxel did not

result in fetal abnormalities in rats or rabbits at exposure levels significantly lower than the expected human exposures.

If this drug is used during pregnancy or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus. Women of childbearing potential should be advised to avoid becoming pregnant while taking JEV TANA.

### **8.3 Nursing Mothers**

Cabazitaxel or cabazitaxel metabolites are excreted in maternal milk of lactating rats. It is not known whether this drug is excreted in human milk. Within 2 hours of a single intravenous administration of cabazitaxel to lactating rats at a dose of 0.08 mg/kg (approximately 0.02 times the maximum recommended human dose), radioactivity related to cabazitaxel was detected in the stomachs of nursing pups. This was detectable for up to 24 hours post-dose. Approximately 1.5% of the dose delivered to the mother was calculated to be delivered in the maternal milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from JEV TANA, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

### **8.4 Pediatric Use**

The safety and effectiveness of JEV TANA in pediatric patients have not been established.

### **8.5 Geriatric Use**

Based on a population pharmacokinetic analysis, no significant difference was observed in the pharmacokinetics of cabazitaxel between patients < 65 years (n=100) and older (n=70).

Of the 371 patients with prostate cancer treated with JEV TANA every three weeks plus prednisone, 240 patients (64.7%) were 65 years of age and over, while 70 patients (18.9%) were 75 years of age and over. No overall differences in effectiveness were observed between patients  $\geq 65$  years of age and younger patients. Elderly patients ( $\geq 65$  years of age) may be more likely to experience certain adverse reactions. The incidence of neutropenia, fatigue, asthenia, pyrexia, dizziness, urinary tract infection and dehydration occurred at rates  $\geq 5\%$  higher in patients who were 65 years of age or greater compared to younger patients [see *Adverse Reactions* (6.1)].

### **8.6 Renal Impairment**

No dedicated renal impairment trial for JEV TANA has been conducted. Based on the population pharmacokinetic analysis, no significant difference in clearance was observed in patients with mild ( $50 \text{ mL/min} \leq \text{creatinine clearance (CLcr)} < 80 \text{ mL/min}$ ) and moderate renal impairment ( $30 \text{ mL/min} \leq \text{CLcr} < 50 \text{ mL/min}$ ). No data are available for patients with severe renal impairment or end-stage renal disease [see *Clinical Pharmacology* (12.3)]. Caution should be used in patients with severe renal impairment ( $\text{CLcr} < 30 \text{ mL/min}$ ) and patients with end-stage renal diseases.

## 8.7 Hepatic Impairment

No dedicated hepatic impairment trial for JEV TANA has been conducted. The safety of JEV TANA has not been evaluated in patients with hepatic impairment [see *Warnings and Precautions* (5.6)].

As cabazitaxel is extensively metabolized in the liver, hepatic impairment is likely to increase the cabazitaxel concentrations. Patients with impaired hepatic function (total bilirubin  $\geq$  ULN, or AST and/or ALT  $\geq 1.5 \times$  ULN) were excluded from the randomized clinical trial.

## 10 OVERDOSAGE

There is no known antidote for JEV TANA overdose. Anticipated complications of overdose include exacerbation of adverse reactions such as bone marrow suppression and gastrointestinal disorders.

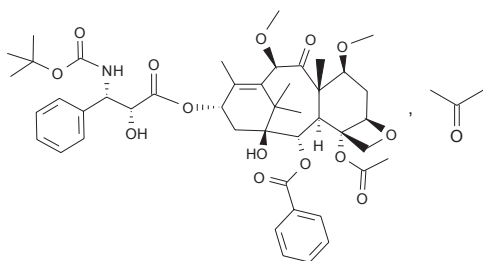
In case of overdose, the patient should be kept in a specialized unit where vital signs, chemistry and particular functions can be closely monitored. Patients should receive therapeutic G-CSF as soon as possible after discovery of overdose. Other appropriate symptomatic measures should be taken, as needed.

## 11 DESCRIPTION

JEV TANA (cabazitaxel) is an antineoplastic agent belonging to the taxane class. It is prepared by semi-synthesis with a precursor extracted from yew needles.

The chemical name of cabazitaxel is (2 $\alpha$ ,5 $\beta$ ,7 $\beta$ ,10 $\beta$ ,13 $\alpha$ )-4-acetoxy-13-((2R,3S)-3-[(tert-butoxycarbonyl) amino]-2-hydroxy-3-phenylpropanoyl}oxy)-1-hydroxy-7,10-dimethoxy-9-oxo-5,20-epoxytax-11-en-2-yl benzoate – propan-2-one(1:1).

Cabazitaxel has the following structural formula:



Cabazitaxel is a white to off-white powder with a molecular formula of  $C_{45}H_{57}NO_{14} \cdot C_3H_6O$  and a molecular weight of 894.01 (for the acetone solvate) / 835.93 (for the solvent free). It is lipophilic, practically insoluble in water and soluble in alcohol.

JEVTANA (cabazitaxel) Injection 60 mg/1.5 mL is a sterile, non-pyrogenic, clear yellow to brownish-yellow viscous solution and is available in single-use vials containing 60 mg cabazitaxel (anhydrous and solvent free) and 1.56 g polysorbate 80. Each mL contains 40 mg cabazitaxel (anhydrous) and 1.04 g polysorbate 80.

DILUENT for JEV-TANA is a clear, colorless, sterile, and non-pyrogenic solution containing 13% (w/w) ethanol in water for injection, approximately 5.7 mL.

JEVTANA requires two dilutions prior to intravenous infusion. JEV-TANA injection should be diluted only with the supplied DILUENT for JEV-TANA, followed by dilution in either 0.9% sodium chloride solution or 5% dextrose solution.

## **12 CLINICAL PHARMACOLOGY**

### **12.1 Mechanism of Action**

Cabazitaxel is a microtubule inhibitor. Cabazitaxel binds to tubulin and promotes its assembly into microtubules while simultaneously inhibiting disassembly. This leads to the stabilization of microtubules, which results in the inhibition of mitotic and interphase cellular functions.

### **12.2 Pharmacodynamics**

Cabazitaxel demonstrated antitumor activity against advanced human tumors xenografted in mice. Cabazitaxel is active in docetaxel-sensitive tumors. In addition, cabazitaxel demonstrated activity in tumor models insensitive to chemotherapy including docetaxel.

### **12.3 Pharmacokinetics**

A population pharmacokinetic analysis was conducted in 170 patients with solid tumors at doses ranging from 10 to 30 mg/m<sup>2</sup> weekly or every three weeks.

#### **Absorption**

Based on the population pharmacokinetic analysis, after an intravenous dose of cabazitaxel 25 mg/m<sup>2</sup> every three weeks, the mean C<sub>max</sub> in patients with metastatic prostate cancer was 226 ng/mL (CV 107%) and was reached at the end of the one-hour infusion (T<sub>max</sub>). The mean AUC in patients with metastatic prostate cancer was 991 ng•h/mL (CV 34%).

No major deviation from the dose proportionality was observed from 10 to 30 mg/m<sup>2</sup> in patients with advanced solid tumors.

#### **Distribution**

The volume of distribution (V<sub>ss</sub>) was 4,864 L (2,643 L/m<sup>2</sup> for a patient with a median BSA of 1.84 m<sup>2</sup>) at steady state.



*In vitro*, the binding of cabazitaxel to human serum proteins was 89 to 92% and was not saturable up to 50,000 ng/mL, which covers the maximum concentration observed in clinical trials. Cabazitaxel is mainly bound to human serum albumin (82%) and lipoproteins (88% for HDL, 70% for LDL, and 56% for VLDL). The *in vitro* blood-to-plasma concentration ratio in human blood ranged from 0.90 to 0.99, indicating that cabazitaxel was equally distributed between blood and plasma.

### Metabolism

Cabazitaxel is extensively metabolized in the liver (> 95%), mainly by the CYP3A4/5 isoenzyme (80% to 90%), and to a lesser extent by CYP2C8. Cabazitaxel is the main circulating moiety in human plasma. Seven metabolites were detected in plasma (including the 3 active metabolites issued from O-demethylation), with the main one accounting for 5% of cabazitaxel exposure. Around 20 metabolites of cabazitaxel are excreted into human urine and feces.

Based on *in vitro* studies, the potential for cabazitaxel to inhibit drugs that are substrates of other CYP isoenzymes (1A2, -2B6, -2C9, -2C8, -2C19, -2E1, -2D6, and 3A4/5) is low. In addition, cabazitaxel did not induce CYP isozymes *in vitro*.

### Elimination

After a one-hour intravenous infusion [ $^{14}\text{C}$ ]-cabazitaxel 25 mg/m<sup>2</sup>, approximately 80% of the administered dose was eliminated within 2 weeks. Cabazitaxel is mainly excreted in the feces as numerous metabolites (76% of the dose); while renal excretion of cabazitaxel and metabolites account for 3.7% of the dose (2.3% as unchanged drug in urine).

Based on the population pharmacokinetic analysis, cabazitaxel has a plasma clearance of 48.5 L/h (CV 39%; 26.4 L/h/m<sup>2</sup> for a patient with a median BSA of 1.84 m<sup>2</sup>) in patients with metastatic prostate cancer. Following a one-hour intravenous infusion, plasma concentrations of cabazitaxel can be described by a three-compartment pharmacokinetic model with  $\alpha$ -,  $\beta$ -, and  $\gamma$ -half-lives of 4 minutes, 2 hours, and 95 hours, respectively.

### Renal Impairment

Cabazitaxel is minimally excreted via the kidney. No formal pharmacokinetic trials have been conducted with cabazitaxel in patients with renal impairment. The population pharmacokinetic analysis carried out in 170 patients including 14 patients with moderate renal impairment (30 mL/min  $\leq$  CLcr < 50 mL/min) and 59 patients with mild renal impairment (50 mL/min  $\leq$  CLcr < 80 mL/min) showed that mild to moderate renal impairment did not have meaningful effects on the pharmacokinetics of cabazitaxel. No data are available for patients with severe renal impairment or end-stage renal disease [see *Use in Special Populations* (8.6)].

### Hepatic Impairment

No formal trials in patients with hepatic impairment have been conducted. As cabazitaxel is extensively metabolized in the liver, hepatic impairment is likely to increase the cabazitaxel concentrations [see *Warnings and Precautions* (5.6), and *Use in Special Populations* (8.7)].

## Drug interactions

As cabazitaxel is mainly metabolized by CYP3A *in vitro*, strong CYP3A inducers or inhibitors are expected to affect the pharmacokinetics of cabazitaxel.

Prednisone or prednisolone administered at 10 mg daily did not affect the pharmacokinetics of cabazitaxel.

*In vitro*, cabazitaxel did not inhibit the multidrug-resistance protein 1 (MRP1) or 2 (MRP2). *In vitro* cabazitaxel inhibited the transport of P-gp and BCRP, at concentrations at least 38 fold what is observed in clinical settings. Therefore, the *in vivo* risk of cabazitaxel to inhibit MRPs, P-gp, or BCRP is unlikely at the dose of 25 mg/m<sup>2</sup>.

*In vitro*, cabazitaxel is a substrate of P-gp, but not a substrate of MRP1, MRP2, or BCRP.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term animal studies have not been performed to evaluate the carcinogenic potential of cabazitaxel.

Cabazitaxel was positive for clastogenesis in the *in vivo* micronucleus test, inducing an increase of micronuclei in rats at doses  $\geq 0.5$  mg/kg. Cabazitaxel increased numerical aberrations with or without metabolic activation in an *in vitro* test in human lymphocytes though no induction of structural aberrations was observed. Cabazitaxel did not induce mutations in the bacterial reverse mutation (Ames) test. The positive *in vivo* genotoxicity findings are consistent with the pharmacological activity of the compound (inhibition of tubulin depolymerization).

Cabazitaxel may impair fertility in humans. In a fertility study performed in female rats at cabazitaxel doses of 0.05, 0.1, or 0.2 mg/kg/day there was no effect of administration of the drug on mating behavior or the ability to become pregnant. There was an increase in pre-implantation loss at the 0.2 mg/kg/day dose and an increase in early resorptions at doses  $\geq 0.1$  mg/kg/day (approximately 0.02-0.06 times the human clinical exposure based on C<sub>max</sub>). In multi-cycle studies following the clinically recommended dosing schedule, atrophy of the uterus was observed at the 5 mg/kg dose level (approximately the AUC in patients with cancer at the recommended human dose) along with necrosis of the corpora lutea at doses  $\geq 1$  mg/kg (approximately 0.2 times the AUC at the clinically recommended human dose).

Cabazitaxel did not affect mating performances or fertility of treated male rats at doses of 0.05, 0.1, or 0.2 mg/kg/day. In multiple-cycle studies following the clinically recommended dosing schedule, however, degeneration of seminal vesicle and seminiferous tubule atrophy in the testis were observed in rats treated intravenously with cabazitaxel at a dose of 1 mg/kg (approximately 0.2-0.35 times the AUC in patients with cancer at the recommended human dose), and minimal testicular degeneration (minimal epithelial single cell necrosis in epididymis) was observed in

dogs treated with a dose of 0.5 mg/kg (approximately one-tenth of the AUC in patients with cancer at the recommended human dose).

## 14 CLINICAL STUDIES

The efficacy and safety of JEV TANA in combination with prednisone were evaluated in a randomized, open-label, international, multi-center study in patients with hormone-refractory metastatic prostate cancer previously treated with a docetaxel-containing treatment regimen.

A total of 755 patients were randomized to receive either JEV TANA 25 mg/m<sup>2</sup> intravenously every 3 weeks for a maximum of 10 cycles with prednisone 10 mg orally daily (n=378), or to receive mitoxantrone 12 mg/m<sup>2</sup> intravenously every 3 weeks for 10 cycles with prednisone 10 mg orally daily (n=377) for a maximum of 10 cycles.

This study included patients over 18 years of age with hormone-refractory metastatic prostate cancer either measurable by RECIST criteria or non-measurable disease with rising PSA levels or appearance of new lesions, and ECOG (Eastern Cooperative Oncology Group) performance status 0-2. Patients had to have neutrophils >1,500 cells/mm<sup>3</sup>, platelets > 100,000 cells/mm<sup>3</sup>, hemoglobin > 10 g/dL, creatinine < 1.5 x upper limit of normal (ULN), total bilirubin < 1xULN, AST < 1.5 x ULN, and ALT < 1.5 x ULN. Patients with a history of congestive heart failure, or myocardial infarction within the last 6 months, or patients with uncontrolled cardiac arrhythmias, angina pectoris, and/or hypertension were not included in the study.

Demographics, including age, race, and ECOG performance status (0-2) were balanced between the treatment arms. The median age was 68 years (range 46-92) and the racial distribution for all groups was 83.9% Caucasian, 6.9% Asian, 5.3% Black, and 4% Others in the JEV TANA group.

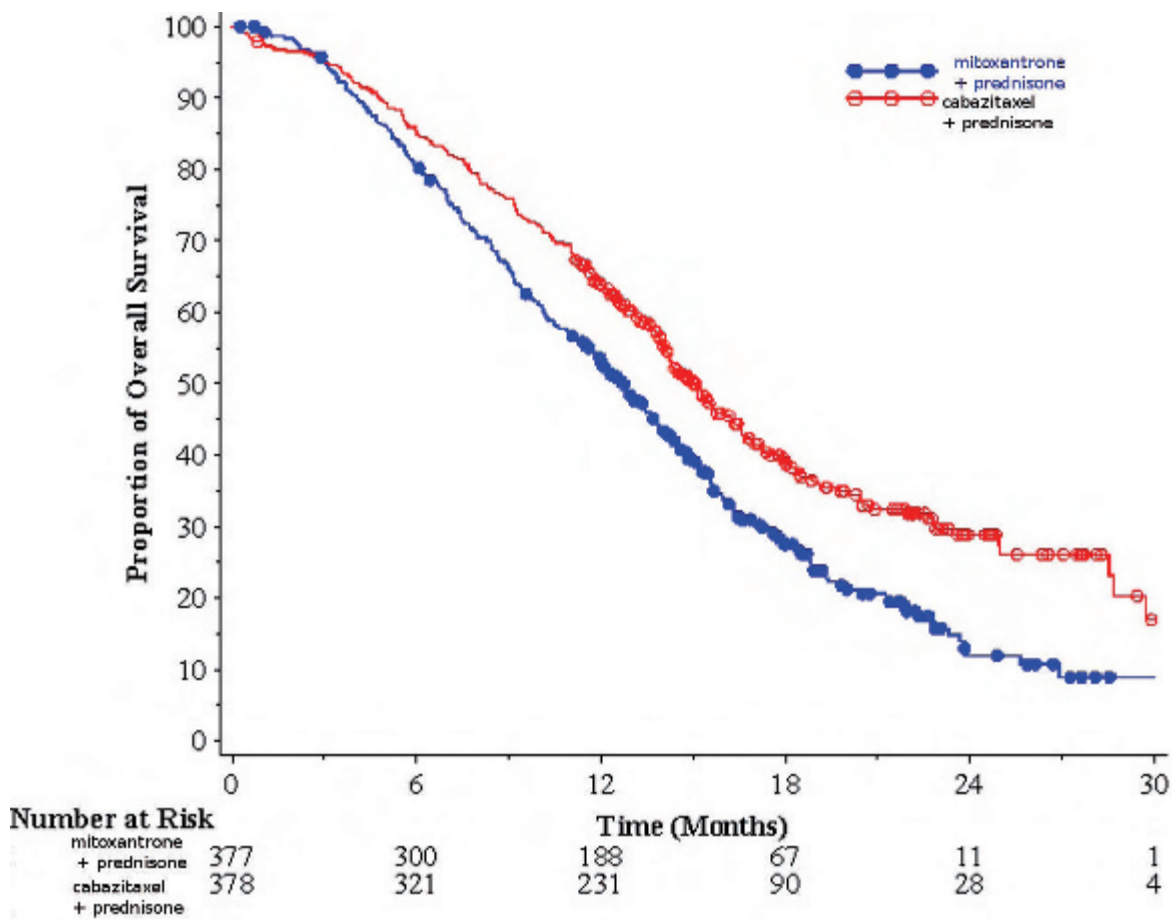
Efficacy results for the JEV TANA arm versus the control arm are summarized in Table 3 and Figure 1.

**Table 3 - Efficacy of JEV TANA in the Treatment of Patients with Hormone Refractory Metastatic Prostate Cancer (Intent-to-Treat Analysis)**

	<b>JEV TANA + Prednisone n=378</b>	<b>Mitoxantrone + Prednisone n=377</b>
<b>Overall Survival</b>		
Number of deaths (%)	234 (61.9 %)	279 (74%)
Median survival (month) (95% CI)	15.1 (14.1-16.3)	12.7 (11.6-13.7)
Hazard Ratio <sup>1</sup> (95% CI)	0.70 (0.59-0.83)	
p-value	<0.0001	

<sup>1</sup>Hazard ratio estimated using Cox model; a hazard ratio of less than 1 favors JEV TANA

**Figure 1 - Kaplan-Meier Overall Survival Curves**



Investigator-assessed tumor response of 14.4% (95%CI: 9.6-19.3) was higher for patients in the JEVTANA arm compared to 4.4% (95%CI: 1.6-7.2) for patients in the mitoxantrone arm,  $p=0.0005$ .

## 15 REFERENCES

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2. OSHA Technical Manual, TED 1-0.15A, Section VI: Chapter 2. Controlling Occupational Exposure to Hazardous Drugs. OSHA, 1999.  
[http://www.osha.gov/dts/osta/otm/otm\\_vi/otm\\_vi\\_2.html](http://www.osha.gov/dts/osta/otm/otm_vi/otm_vi_2.html)

3. American Society of Health-System Pharmacists. (2006) ASHP Guidelines on Handling Hazardous Drugs. *Am J Health-Syst Pharm* 2006; 63:1172-1193.

4. Polovich, M., White, J. M., & Kelleher, L.O. (eds.) 2005. Chemotherapy and biotherapy guidelines and recommendations for practice (2nd. ed.) Pittsburgh, PA: Oncology Nursing Society.

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

### **16.1 How Supplied**

JEVTANA is supplied as a kit containing one single-use vial of JEV TANA (cabazitaxel) Injection (clear glass vial with a grey rubber closure, aluminum cap and light green plastic flip-off cap) and one vial of Diluent for JEV TANA (13% (w/w) ethanol in water for injection) in a clear glass vial with a grey rubber closure, gold-color aluminum cap and colorless plastic flip-off cap. Both items are in a blister pack in one carton.  
NDC 0024-5824-11

### **16.2 Storage**

**JEVTANA Injection and Diluent for JEV TANA:**

Store at 25°C (77°F); excursions permitted between 15°-30°C (59°-86°F).

Do not refrigerate.

**Stability of the First Diluted Solution in the Vial:**

First diluted solution of JEV TANA should be used immediately (within 30 minutes). Discard any unused portion [see *Dosage and Administration* (2.5)].

**Stability of the Second (Final) Dilution Solution in the Infusion Bag:**

Fully prepared JEV TANA infusion solution (in either 0.9% sodium chloride solution or 5% dextrose solution) should be used within 8 hours at ambient temperature (including the one-hour infusion), or for a total of 24 hours (including the one-hour infusion) under the refrigerated conditions.

In addition, chemical and physical stability of the infusion solution has been demonstrated for 24 hours under refrigerated conditions. As both the first diluted solution and the second (final) infusion solution are supersaturated, the solutions may crystallize over time. If crystals and/or particulates appear, the solutions must not be used and should be discarded [see *Dosage and Administration* (2.5)].

## 16.3 Handling and Disposal

Procedures for proper handling and disposal of antineoplastic drugs should be followed. Several guidelines on this subject have been published [*see References (15)*]. Any unused product or waste material should be disposed of in accordance with local requirements.

## 17 PATIENT COUNSELING INFORMATION

*See FDA-Approved Patient Labeling*

- Educate patients about the risk of potential hypersensitivity associated with JEV TANA. Confirm patients do not have a history of severe hypersensitivity reactions to cabazitaxel or to other drugs formulated with polysorbate 80. Instruct patients to immediately report signs of a hypersensitivity reaction.
- Explain the importance of routine blood cell counts. Instruct patients to monitor their temperature frequently and immediately report any occurrence of fever to the treating oncologist.
- Explain that it is important to take the oral prednisone as prescribed. Instruct patients to report if they were not compliant with oral corticosteroid regimen.
- Explain to patients that severe and fatal infections, dehydration, and renal failure have been associated with cabazitaxel exposure. Patients should immediately report fever, significant vomiting or diarrhea, decreased urinary output, and hematuria to the treating oncologist.
- Inform patients about the risk of drug interactions and the importance of providing a list of prescription and non-prescription drugs to the treating oncologist [*see Drug Interactions (7)*].
- Inform elderly patients that certain side effects may be more frequent or severe.

### **Patient Information JEVTANA® (JEV-TA-NA) (cabazitaxel) Injection**

**Read this Patient Information before you start receiving JEV TANA and each time before you receive your infusion. There may be new information. This information does not take the place of talking to your doctor about your medical condition or your treatment.**

### **What is the most important information I should know about JEV TANA? JEVTANA may cause serious side effects including:**

1. **Low white blood cells.** Low white blood cells can cause you to get serious infections, and may lead to death. People who are 65 years or older may be more likely to have these problems. Your doctor:
  - will do blood tests regularly to check your white blood cell counts during your treatment with JEV TANA.

- may lower your dose of JEVTANA, change how often you receive it, or stop JEVTANA until your doctor decides that you have enough white blood cells.
- may prescribe a medicine for you called G-CSF, to help prevent complications if your white blood cell count is too low.

**Tell your doctor right away if you have any of these symptoms of infection while receiving JEVTANA:**

- fever. Take your temperature often during treatment with JEVTANA.
- cough
- burning on urination
- muscle aches

Also, tell your doctor if you have any diarrhea during the time that your white blood cell count is low. Your doctor may prescribe treatment for you as needed.

2. **Severe allergic reactions.** Severe allergic reactions can happen within a few minutes after your infusion of JEVTANA starts, especially during the first and second infusions. Your doctor should prescribe medicines before each infusion to help prevent severe allergic reactions.

Tell your doctor or nurse right away if you have any of these symptoms of a severe allergic reaction during or soon after an infusion of JEVTANA:

- rash or itching
- skin redness
- feeling dizzy or faint
- breathing problems
- chest or throat tightness
- swelling of face

3. **Gastrointestinal symptoms.** Vomiting and diarrhea can happen when you take JEVTANA. Severe vomiting and diarrhea with JEVTANA can lead to loss of too much body fluid (dehydration), or too much of your body salts (electrolytes). Death has happened from having severe diarrhea and losing too much body fluid or body salts with JEVTANA. Tell your doctor if you have vomiting or diarrhea. Your doctor will prescribe medicines to prevent or treat vomiting and diarrhea, as needed with JEVTANA. Tell your doctor if your symptoms get worse or do not get better. You may need to go to the hospital for treatment.
4. **Kidney failure.** Kidney failure may happen with JEVTANA, because of severe infection, loss of too much body fluid (dehydration), and other reasons, which may lead to death. Your doctor will check you for this problem and treat you if needed. Tell your doctor if you develop:
  - swelling of your face or body
  - decrease in the amount of urine that your body makes each day.



**What is JEV TANA?**

JEVTANA is a prescription anti-cancer medicine used with the steroid medicine prednisone. JEV TANA is used to treat people with prostate cancer that has worsened (progressed) after treatment with other anti-cancer medicines, including docetaxel.

It is not known if JEV TANA is safe and works in children.

**Who should not receive JEV TANA?****Do not receive JEV TANA if:**

- your white blood cell (neutrophil count) is too low
- you have had a severe allergic reaction to cabazitaxel or other medicines that contain polysorbate 80. Ask your doctor if you are not sure.

**What should I tell my doctor before receiving JEV TANA?****Before receiving JEV TANA, tell your doctor if you:**

- had allergic reactions in the past
- have kidney or liver problems
- are over the age of 65
- have any other medical conditions
- if you are a female and:
  - are pregnant or plan to become pregnant. JEV TANA can harm your unborn baby. Talk to your doctor about the best way for you to prevent pregnancy while you are receiving JEV TANA.
  - are breastfeeding or plan to breastfeed. It is not known if JEV TANA passes into your breast milk. You and your doctor should decide if you will take JEV TANA or breastfeed. You should not do both.

**Tell your doctor about all the medicines you take,** including prescription and non-prescription medicines, vitamins, and herbal supplements. JEV TANA can interact with many other medicines. Do not take any new medicines without asking your doctor first. Your doctor will tell you if it is safe to take the new medicine with JEV TANA.

**How will I receive JEV TANA?**

- JEV TANA will be given to you by an intravenous (IV) infusion into your vein.
- Your treatment will take about 1 hour.
- JEV TANA is usually given every 3 weeks. Your doctor will decide how often you will receive JEV TANA.
- Your doctor will also prescribe another medicine called prednisone, for you to take by mouth every day during treatment with JEV TANA. Your doctor will tell you how and when to take your prednisone.

It is important that you take prednisone exactly as prescribed by your doctor. If you forget to take your prednisone, or do not take it on schedule, make sure to tell

your doctor or nurse. Before each infusion of JEV TANA, you may receive other medicines to prevent or treat side effects.

### **What are the possible side effects of JEV TANA?**

**JEV TANA may cause serious side effects including:**

- **See “What is the most important information I should know about JEV TANA?”**

**Common side effects of JEV TANA include:**

- **Low red blood cell count** (anemia). Your doctor will regularly check your red blood cell count. Symptoms of anemia include shortness of breath and tiredness.
- **Low blood platelet count.** Tell your doctor if you have any unusual bruising or bleeding.
- **tiredness**
- **nausea**
- **constipation**
- **weakness**
- **blood in the urine.** Tell your doctor or nurse if you see blood in your urine.
- **back pain**
- **decreased appetite**
- **fever**
- **shortness of breath**
- **stomach (abdominal) pain**
- **change in your sense of taste**
- **cough**
- **joint pain**
- **hair loss**
- **numbness, tingling, burning or decreased sensation in your hands or feet**

Tell your doctor if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of JEV TANA. For more information, ask your doctor or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

### **General information about JEV TANA**

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet.

This leaflet summarizes the most important information about JEV TANA. If you would like more information, talk with your doctor. You can ask your pharmacist or doctor for information about JEV TANA that is written for health professionals.

For more information, go to [www.sanofi-aventis.us](http://www.sanofi-aventis.us) or call 1-800-633-1610.

**What are the ingredients in JEVTANA?**

Active ingredient: cabazitaxel

Inactive ingredient: polysorbate 80

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