 PATIENT INFORMATION Paclitaxel (pak-li tax-el) Injection, USP
 paclitaxel. There may be new information. This information does not take the place of talking to your healthcare provider about your medical condition or your treatment. What is the most important information I should know
 about paclitaxel? Paclitaxel can cause serious side effects including death.
 Serious allergic reactions (anaphylaxis) can happen in people who receive paclitaxel injection. Anaphylaxis is a serious medical emergency that can lead to death and must be treated right away.
 healthcare provider right away if you hav ns of an allergic reaction: hreathing
 trouble breathing sudden swelling of your face, lips, tongue, throat, or trouble swallowing hives (raised bumps) or rash
 Your healthcare provider will give you medicines to lessen your chance of having an allergic reaction. What is paclitaxel?
 Paclitaxel is a prescription medicine used to treat some forms of: • ovarian cancer
 Kaposi's sarcoma It is not known if paclitaxel is safe or effective in children.
 Who should not receive paclitaxel? Do not receive paclitaxel if: you are allergic to any of the ingredients in paclitaxel. See
 the end of this leaflet for a complete list of ingredients in paclitaxel.are allergic to medicines containing polyoxyl 35 castor oil.you have low white blood cell counts.
 What should I tell my healthcare provider before receiving paclitaxel?
 eceiving paclitaxel, tell your healthcare I your medical conditions, including if you: ver problems leart problems
 egnant or plan to become pregnant. Paclitaxe /our unborn baby. Talk to your healthcare pro are pregnant or plan to become pregnant. east-feeding or plan to breast-feed. It is not k
 reader provider should decide if you will re r breast-feed.
 r healthcare provider about all the me luding prescription and non-prescription , and herbal supplements.
 ne medicines you take. Keep a list of ther ur healthcare provider and pharmacist wl medicine.
 How will I receive paclitaxel? Paclitaxel is injected into a vein (intravenous [IV] infusion)
 ealthcare provider will do certain tests paclitaxel.
 What are the possible side effects of paclitaxel? Tell your healthcare provider right away if you have:
 severe stomach pain severe diarrhea
 The most common side effects of paclitaxel Injection, USP include: • Iow red blood cell count (anemia) feeling weak or tired • hair loss
 numbness, tingling, or burning in your hands or feet (neuropathy) joint and muscle pain nausea and vomiting
 hypersensitivity reaction - trouble breathing; sudden swelling of your face, lips, tongue, throat, or trouble swal- lowing; hives (raised bumps) or rash diarrhea
 uth or lip sores (mucositis) ctions - if you have a fever (temperature ab er sign of infection, tell your healthcare pi
 swelling of your hands, face, or feet bleeding events irritation at the injection site low blood pressure (hypotension)
 rs you or that does not go away.
 information, ask your healthcare provider
 www.fresenius-kabi.com/us or call 1-800-551-7176.
 eral information about the safe and effective (itaxel.
 Medicines are sometimes prescribed for purposes other than those listed in a patient information leaflet. Do not use paclitaxel for a condition for which it was not prescribed. Do not give paclitaxel to other people, even if they have the same symptoms that you have. It may harm them.
 This patient information leaflet summarizes the most impor- tant information about paclitaxel. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about paclitaxel that is written for health professionals. For more information go to www.fresenius-kabi.com/us or call
 800-551-7176. hat are the ingredients in paclitaxel?
 stive ingredient: paclitaxel, USP. active ingredients include: polyoxyl 35 ca shydrated alcohol, USP. hat is cancer?
 Under normal conditions, the cells in your body divide and grow in an orderly, controlled way. Cell division and growth are necessary for the human body to perform its functions
 from normal cells because they are not able to control their own growth. The reasons for this abnormal growth are not yet fully understood. A tumor is a mass of unhealthy cells that are dividing and growing fast and in an uncontrolled way. When a tumor
 invades surrounding healthy body tissue, it is known as a malignant tumor. A malignant tumor can spread (metasta- size) from its original site to other parts of the body if not found and treated early.

PACLITAXEL Paclitaxel Injection, USP

(Patient Information Included) Rx only

WARNING

Paclitaxel should be administered under the supervision of a physicia experienced in the use of cancer chemotherapeutic agents. Appropriate management of complications is possible only when adequate diag nostic and treatment facilities are readily available.

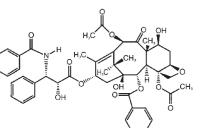
Anaphylaxis and severe hypersensitivity reactions characterized ension requiring treatment, angioedema, and gen alized urticaria have occurred in 2 to 4% of patients receiving pacili in clinical trials. Fatal reactions have occurred in patients despit premedication. All patients should be pretreated with corticosteroids, diphenhydramine, and H₂ antagonists (see **DOSAGE AND ADMINIS-TRATION**). Patients who experience severe hypersensitivity reactions to paclitaxel should not be rechallenged with the drug. Paclitaxel therapy should not be given to patients with solid tumor

who have baseline neutrophil counts of less than 1,500 cells/mm³ and should not be given to patients with AIDS-related Kaposi's sarcoma if the baseline neutrophil count is less than 1,000 cells/mm³. In order to monitor the occurrence of bone marrow suppression, primarily neutro-penia, which may be severe and result in infection, it is recommended that frequent peripheral blood cell counts be performed on all patients receiving paclitaxel

DESCRIPTION Paclitaxel Injection, USP is a clear, colorless to slightly yellow viscous solution. It is supplied as a nonaqueous solution intended for dilution with a renteral fluid prior to intravenous infusion. Paclitaxel Injection, US is available in 30 mg (5 mL), 100 mg (16.7 mL), and 300 mg (50 mL) multidose vials. Each mL of sterile nonpyrogenic solution contains 6 mg paclitaxel, USP, 527 mg of polyoxyl 35 castor oil, NF, and 49.7% (v/v) dehydrated alcohol, USP.

Paclitaxel is a natural product with antitumor activity. Paclitaxel is obtained via a semi-synthetic process from *Taxus baccata*. The chemical name for paclitaxel is (2a*R*,4*S*,4*AS*,6*R*,9*S*,11*S*,12*S*,12*aR*,12b*S*)-(1,2a,3,4*A*,6,9,10,11,1,212b-1D-docatydro-4,6,9,11,1,212b-1Aexahydroxy,4a,8,13,13-tetramethyl-7,11-methano-5*H*-cyclodeca[3,4]-benz[1,2-b] xet-5-one 6,12b-diacetate, 12-benzoate, 9-ester with (2R,3S)- N-benzoy 3-phenylisoserine

Paclitaxel has the following structural formula



Paclitaxel, USP is a white to off-white powder with the empirical formula $C_{47}H_{51}NO_{14}$ and a molecular weight of 853.9. It is insoluble in water, soluble in alcohol and melts at around 212°C to 217°C.

CLINICAL PHARMACOLOGY Pacifitaxel is a novel antimicrotubule agent that promotes the assembly of microtubules from tubulin dimers and stabilizes microtubules by preventing depolymerization. This stability results in the inhibition of the normal dynamic reorganization of the microtubule network that is essential for vital interphase and mitotic cellular functions. In addition, paclitaxel induces abnormal arrays or "bundles" of microtubules throughout the cell cycle and multiple asters of microtubules during mitosis. of microtubules during mitosis.

Following intravenous administration of paclitaxel, paclitaxel plasma concen-trations declined in a biphasic manner. The initial rapid decline represents distribution to the peripheral compartment and elimination of the drug. The later phase is due, in part, to a relatively slow efflux of paclitaxel from the peripheral compartment Pharmacokinetic parameters of paclitaxel following 3- and 24-hour infusions of paclitaxel at dose levels of 135 and 175 mg/m² were determined in a Phase 3 randomized study in ovarian cancer patients and are summarized

in the following table:

TABLE 1. SUMMARY OF PHARMACOKINETIC PARAMETERS – MEAN VALUES

MEAN VALUES					
Infusion Duration (h)	N (patients)	C _{max} (ng/mL)	AUC _(0-∞) (ng∙h/mL)	T-HALF (h)	CL _T (L/h/m²)
24	2	195	6,300	52.7	21.7
24	4	365	7,993	15.7	23.8
3	7	2,170	7,952	13.1	17.7
3	5	3,650	15,007	20.2	12.2
	Duration (h) 24 24 3	Infusion Duration (h)N (patients)24224437	Infusion Duration (h) N (patients) C _{max} (ng/mL) 24 2 195 24 4 365 3 7 2,170	Infusion Duration (h) N (patients) C _{max} (ng/mL) AUC _(0-∞) (ng-h/mL) 24 2 195 6,300 24 4 365 7,993 3 7 2,170 7,952	Infusion Duration (h) N (patients) Cmax (ng/mL) AUC _(0-x) (ng + h/mL) T-HALF (h) 24 2 195 6.300 52.7 24 4 365 7.993 15.7 3 7 2,170 7.952 13.1

 $C_{max}=Maximum$ plasma concentration $AUC_{(0, \omega)}=$ Area under the plasma concentration-time curve from time 0 to infinity $CL_T=Total$ body clearance It appeared that with the 24-hour infusion of paclitaxel, a 30% increase in dose (135 mg/m² vs 175 mg/m²) increased the C_{max} by 87%, whereas the AUC (_{b~1}) remained proportional. However, with a 3-hour influsion, for a 30% increase in dose, the C_{max} and AUC (_{b~1}) were increased by 68% and 89%,

respectively. The mean apparent volume of distribution at steady state, with the 24-hour infusion of pacitaxel, ranged from 227 to 688 L/m², indicating extensive extravascular distribution and/or tissue binding of pacitaxel. The pharmacokinetics of paclitaxel were also evaluated in adult cancer The pratification for the practicated where also evaluated in addit called patients who received single doses of 15 to 135 mg/m² given by 1-hour infusions (n=15), 30 to 275 mg/m² given by 6-hour infusions (n=36), and 200 to 275 mg/m² given by 24-hour infusions (n=44) in Phase 1 and 2 studies. Values for CL₇ and volume of distribution were consistent with the findings in the Phase 3 study. The pharmacokinetics of pacilitaxel in patients with AIDS-related Kaposi's sarcoma have not been studied.

In vitro studies of binding to human serum proteins, using paclitaxel concen-trations ranging from 0.1 to 50 mcg/mL, indicate that between 89 to 98% of drug is bound; the presence of cimetidine, ranitidine, dexamethasone, or diphenhydramine did not affect protein binding of paclitaxel.

After intravenous administration of 15 to 275 mg/m² doses of paclitaxel as After intravenous administration of 15 to 275 mg/m² doses of paclitaxel as 1.6 c, or 24-hour infusions, mean values for cumulative urinary recovery of unchanged drug ranged from 1.3% to 12.6% of the dose, indicating extensive non-renal clearance. In 5 patients administered a 225 or 250 mg/m² dose of radiolabeled paclitaxel as a 3-hour infusion, a mean of 71% of the radioactivity was excreted in the faces in 120 hours, and 14% was recovered in the urine. Total recovery of adioactivity ranged from 56% to 101% of the dose. Paclitaxel represented a mean of 5% of the administered radioactivity recovered in the faces, while metabolites, primarily 6α -hydroxypacitaxel, accounted for the balance. *In vitro* studies with human liver microsomes and tissue slices showed that paclitaxel was metabolized orimarity to 6α -hydroxypacitaxel by the cvtochrome P450 metabolized primarily to 6α-hydroxypaclitaxel by the cytochrome P450 isozyme CYP2C8; and to 2 minor metabolites, 3'-p-hydroxypaclitaxel and 6α, 3'-p-dihydroxypaclitaxel, by CYP344. In vitro, the metabolism of paclitaxel to α-hydroxypaclitaxel was inhibited by a number of agents (ketoconazole verapamil, diazepam, quinidine, dexamethasone, cyclosporin, teniposide, etoposide, and vincristine), but the concentrations used exceeded those found *in vivo* following normal therapeutic doses. Testosterone, 17a-ethinyl estradiol, retinoic acid, and quercetin, a specific inhibitor of CYP2C8, also inhibited the formation of 6α -hydroxypaclitaxel *in vitro*. The pharmacokinetics of paclitaxel may also be altered *in vivo* as a result of interactions with compounds that are substrates, inducers, or inhibitors of CYP2C8 and/or CYP3A4 (see **PRECAUTIONS, Drug Interactions**).

he disposition and toxicity of paclitaxel 3-hour infusion were evaluated in tients with varying degrees of hepatic function. Relative to patients with ormal bilirubin, plasma paclitaxel exposure in patients with abnormal serun ilirubin ≤2 times upper limit of normal (ULN) administered 175 mg/ was increased, but with no apparent increase in the frequency or severity of toxicity. In 5 patients with serum total bilirubin >2 times ULN, there was a statistically nonsignificant higher incidence of severe myelosur

even at a reduced dose (110 mg/m²), but no observed increase in plasma exposure (see **PRECAUTIONS**, **Hepatic** and **DOSAGE AND ADMINIS**-**TRATION**). The effect of renal or hepatic dysfunction on the disposition of paclitaxel has not been investigated.

Possible interactions of paclitaxel with concomitantly administered medicaons have not been formally investigated. CLINICAL STUDIES

Ovarian Carcinoma

First-Line Data First-Line Data The safety and efficacy of paclitaxel followed by cisplatin in patients with advanced ovarian cancer and no prior chemotherapy were evaluated in 2, Phase 3 multicenter, randomized, controlled trials. In an Intergroup study led by the European Organization for Research and Treatment of Cancer involving the Scandinavian Group NOCOVA, the National Cancer Institute of Canada, and the Scottish Group, 680 patients with Stage II_{B-C}, III, or IV disease (optimally or non-optimally debulked) received either paclitaxel 175 mg/m² infused over 3 hours followed by cisplatin 75 mg/m² (Tc) or cyclophosphamide 750 mg/m² followed by cisplatin 75 mg/m² (Cc) for a median of 6 courses. Although the protocol allowed further therapy, only 15% received both drugs for 9 or more courses. In a study conducted by the Gynecological Oncology Group (GOG), 410 patients with Stage III or IV disease (> 1 cm residual disease after staging laparotomy or distant metastases) received either paclitaxel 135 mg/m² infused over 24 hours followed by cisplatin 75 mg/m² or cyclophosphamide 750 mg/m² followed by cisplatin 75 mg/m² for 6 courses. In both studies, patients treated with paclitaxel in combination with cisplatin

n both studies, patients treated with paclitaxel in combination with cisplatin and significantly higher response rate, longer time to progression, and onger survival time compared with standard therapy. These differences were also significant for the subset of patients in the Intergroup study with non-optimally debulked disease, although the study was not fully powered ion optimally debulked disease, allough the study was not fully powered for subset analyses (TABLES 2A and 2B). Kaplan- Meier survival curves for each study are shown in FIGURES 1 and 2.

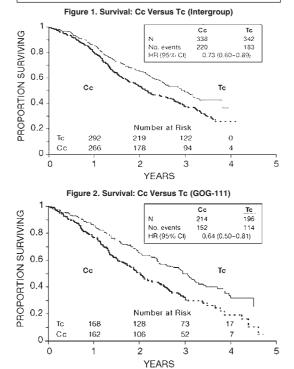
TABLE 2A. EFFICACY IN THE PHASE 3 FIRST-LINE OVARIAN CARCINOMA STUDIES

	Intergroup (non-optimally debulked subset)				G0G-111		
	T175/3ª c75 (n=218)		C750ª c75 (n=227)	T135/24 ^a c75 (n=196)		C750 ^a c75 (n=214)	
Clinical Response ^b - rate (percent) - p-value ^c	(n=153) 58	0.016	(n=153) 43	(n=113) 62	0.04	(n=127) 48	
Time to Progression median (months) p-value ^c hazard ratio (HR) ^c 95% Cl ^c	13.2	0.0060 0.76 0.62 to 0.92	9.9	16.6	0.0008 0.70 0.56 to 0.86	13.0	
Survival median (months) p-value ^c hazard ratio (HR) ^c 95% Cl ^c	29.5	0.0057 73 0.58 to 0.91	21.9	35.5	0.0002 0.64 0.50 to 0.81	24.2	
^a Paclitaxel dose in mg/m	^a Paclitaxel dose in mg/m ² /infusion duration in hours; cyclophosphamide and cisplatin doses in mg/m ² .						

Unstratified for the Intergroup Study, Stratified for Study GOG-111. TABLE 2B. EFFICACY IN THE PHASE 3 FIRST-LINE

OVARIAN CARCINOMA INTERGROUP STUDY					
	T175/3 ^a c75 (n=342)		C750ª c75 (n=338)		
Clinical Responseb rate (percent) - p-valuec	(n=162) 59	0.014	(n=161) 45		
Time to Progression median (months) p-value ^c hazard ratio (HR) ^c 95% Cl ^c	15.3	0.0005 0.74 0.63 to 0.88	11.5		
Survival median (months) p-value ^c hazard ratio (HR) ^c 95% Cl ^c	35.6	0.0016 0.73 0.60 to 0.89	25.9		
^a Paclitaxel dose in mg/m ² /infu	ision duration in hou	ırs; cyclophospham	ide and cisplatin doses in		

^b Among patients with measurable disease only *Unstratified.



he adverse event profile for patients receiving paclitaxel in compination with isplatin in these studies was qualitatively consistent with that seen for the pooled analysis of data from 812 patients treated with single-agent paclitaxel in 10 clinical studies. These adverse events and adverse events from the Phoce 3 first-line ovarian carcinoma studies are described in the **ADVERSE** Phase 3 first-line ovarian carcinoma studies are described in the ADVER REACTIONS section in tabular (TABLES 10 and 11) and narrative form Second-Line Data

Data from 5, Phase 1 and 2 clinical studies (189 patients), a multicenter randomized Phase 3 study (407 patients), as well as an interim analysis of data from more than 300 patients enrolled in a treatment referral center program were used in support of the use of patients enrolled in a treatment relevance that a constraint of the use of patients who have failed initial or subsequent chemotherapy for metastatic carcinoma of the ovary. Two of the Phase 2 studies (92 patients) utilized an initial dose of 135 to 170 mg/m² in most patients (>90%) administered over 224 hours by continuous infusion. Response rates in these 2 studies were 22% (95% Cl, 11 to 37%) and 30% (95% Cl, 18 to 46%) with a total of 6 complete and 18 partial esponses in 92 patients. The median duration of overall response in these studies measured from the first day of treatment was 7.2 months (range 5 to 15.8 months) and 7.5 months (range, 5.3 to 17.4 months), respectively The median survival was 8.1 months (range, 0.2 to 36.7 months) and 15.9 months (range, 1.8 to 34.5+ months).

The Phase 3 study had a bifactorial design and compared the efficacy and safety of paclitaxel, administered at 2 different doses (135 or 175 mg/m²) ind schedules (3- or 24-hour infusion). The overall response rate for the 07 patients was 16.2% (95% CI, 12.8 to 20.2%), with 6 complete and 50 partial responses. Duration of response, measured from the first day

of treatment was 8.3 months (range, 3.2 to 21.6 months). Median time to progression was 3.7 months (range, 0.1+ to 25.1+ months). Median survival was 11.5 months (range, 0.2 to 26.3+ months). Response rates, median survival, and median time to progression for the 4 arms are given in the following table.

TABLE 3. EFFICACY IN THE PHASE 3

SECONE	SECOND-LINE OVARIAN CARCINOMA STUDY					
	175/3	175/24	135/3	135/24		
	(n=96)	(n=106)	(n=99)	(n=106)		
Response rate (percent) 95% Confidence Interval	14.6	21.7	15.2	13.2		
	(8.5 to 23.6)	(14.5 to 31)	(9 to 24.1)	(7.7 to 21.5)		
Time to Progression median (months) 95% Confidence Interval	4.4	4.2	3.4	2.8		
	(3 to 5.6)	(3.5 to 5.1)	(2.8 to 4.2)	(1.9 to 4)		
Survival median (months) 95% Confidence Interval	11.5	11.8	13.1	10.7		
	(8.4 to 14.4)	(8 9 to 14 6)	(9.1 to 14.6)	(8.1 to 13.6)		

Confidence Interval (8.4 to 14.4) (8.9 to 14.6) (9.1 to 14.6) (8.1 to 1 Analyses were performed as planned by the bifactorial study design described in the protocol, by comparing the 2 doses (135 or 175 mg/m²) irrespective of the schedule (3 or 24 hours) and the 2 schedules irrespective of dose. Patients receiving the 175 mg/m² dose had a response rate similar to that for those receiving the 135 mg/m² dose: 18% versus 14% (p=0.28). No difference in response rate was detected when comparing the 2-hour infusion: 15% versus 17% (p=0.50). Patients receiving the 135 mg/m² dose: a data response the 3-hour with the 2-hour infusion: 15% versus 17% (p=0.50). Patients receiving the 175 mg/m² dose of paclitaxel had a longer time to progression than those receiving the 135 mg/m² dose: median 4.2 versus 3.1 months (p=0.03). The median time to progression for patients receiving the 3-hour versus the 24-hour infusion was 4 months versus 3.7 months, respectively. Median survival was 11.6 months in patients receiving the 135 mg/m² dose (p=0.92). Median survival was 11.7 months for patients receiving the 24-hour infusion (p=0.91). These statistical analyses should be viewed with caution because of the multiple comparisons made.

Paclitaxel remained active in patients who had developed resistance to platinum-containing therapy (defined as tumor progression while on, or tumor relapse within 6 months from completion of, a platinum-containing regimen) with response rates of 14% in the Phase 3 study and 31% in the Phase 1 and 2 clinical studies.

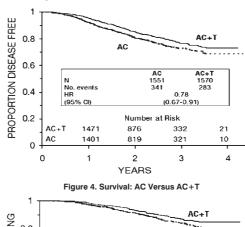
The adverse event profile in this Phase 3 study was consistent with that seen for the pooled analysis of data from 812 patients treated in 10 clinical studies. These adverse events and adverse events from the Phase 3 second line ovarian carcinoma study are described in the **ADVERSE REACTIONS** section in tabular (**TABLES 10** and **12**) and narrative form. The results of this randomized study support the use of paclitaxel at doses of 135 to 175 mg/m², administered by a 3-hour intravenous infusion. The same doses administered by 24-hour infusion were more toxic. However, the study had insufficient power to determine whether a particular dose and schedule produced superior efficacy.

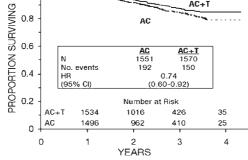
Breast Carcinoma Adjuvant Therapy

A Phase 3 Intergroup study (Cancer and Leukemia Group B [CALGB], Eastern Cooperative Oncology Group [ECOG], North Central Cancer Treatment Group [NCCTG], and Southwest Oncology Group [SWOG]) randomized 3,170 patients with node-positive breast carcinoma to adjuvant therapy with pacificated or to no further chemotherapy following 4 courses of doxorubicin and cyclophosphamide (AC). This multicenter trial was conducted in women with histologically positive lymph nodes following either a mastectomy or segmental mastectomy and nodal dissections. The 3 x 2 factorial study was designed to assess the efficacy and safety of 3 different dose levels of doxorubicin (A) and to evaluate the effect of the ddition of paclitaxel administered following the completion of AC therapy ofter stratification for the number of positive lymph nodes (1 to 3, 4 to 9, or After statilication for the fumber of positive symptimodes (rules, 4 to 9, or 10+), patients were randomized to receive cyclophosphamide at a dose of 600 mg/m² and doxorubicin at doses of either 60 mg/m² (on day 1), 75 mg/m² (in 2 divided doses on days 1 and 2), or 90 mg/m² (in 2 divided doses on days 1 and 2 with prophylactic G-CSF support and ciprofloxacin) every 3 weeks for 4 courses and either pacitaxel 175 mg/m² as a 3-hour infu-sion every 3 weeks for 4 additional courses or no additional chemotherapy. Patients whose tumors were positive were to receive subsequent tamoxife reatment (20 mg daily for 5 years); patients who received se omies prior to study were to receive breast irradiation after recovery from

reatment-related toxicities. At the time of the current analysis, median follow-up was 30.1 months Of the 2,066 patients who were hormone receptor positive, 93% received tamoxifen. The primary analyses of disease-free survival and overall survival used multivariate Cox models, which included pacifized administration, oxorubicin dose, number of positive lymph nodes, tumor size, menopause status, and estrogen receptor status as factors. Based on the model for disease-free survival, patients receiving AC followed by paclitaxel had a 22% reduction in the risk of disease recurrence compared to patients randomized to AC alone (Hazard Ratio [HR]=0.78, 95% CI, 0.67 to 0.91,

=0.0022). They also had a 26% reduction in the risk of death (HR=0.74, 95% I, 0.60 to 0.92, p=0.0065). For disease-free survival and overall survival, p-values were not adjusted for interim analyses. Kaplan-Meier curves are shown in **FIGURES 3** and 4. Increasing the dose of doxorubicin higher than 60 mg/m² had no effect on either disease-free are shown in FIGURE 3 survival or overall survival. Figure 3. Disease-Free Survival: AC Versus AC+1





0.4 0.2

Subset Analyses Subsets defined by variables of known prognostic importance in adjuvant breast carcinoma were examined, including number of positive lymph nodes, tumor size, hormone receptor status, and menopausal status. Su analyses must be interpreted with care, as the most secure finding is the overall study result. In general, a reduction in hazard similar to the overall reduction was seen with paclitaxel for both disease-free and overall survival in all of the larger subsets with one exception; patients with receptor-positive

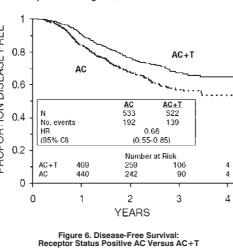
451224E/Revised: November 2018 PACLITAXEL Injection, USP

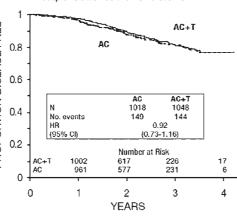
tumors had a smaller reduction in hazard (HR=0.92) for disease-free surviva taxel than other groups. Results of subset analyses are shown n TABLE 4. TABLE 4. SUBSET ANALYSES — ADJUVANT

BREAST CARCINOMA STUDY					
Patient Subset		Disease-	Free Survival	Over	all Survival
	No. of Patients	No. of Recurrences	Hazard Ratio (95% CI)	No. of Deaths	Hazard Ratio (95% CI)
• No. of Positive Nodes 1 to 3	1,449	221	0.72 (0.55 to 0.94)	107	0.76 (0.52-1.12)
4 to 9 10+	1,310 360	274 129	0.78 (0.61 to 0.99) 0.93 (0.66 to 1.31)	148 87	0.66 (0.47-0.91) 0.90 (0.59-1.36)
• Tumor Size (cm) ≤2 >2 and ≤5 >5	1,096 1,611 397	153 358 111	0.79 (0.57 to 1.08) 0.79 (0.64 to 0.97) 0.75 (0.51 to 1.08)	67 201 72	0.73 (0.45 to 1.18) 0.74 (0.56- to 0.98) 0.73 (0.46- to 1.16)
• Menopausal Status Pre Post	1,929 1,183	374 250	0.83 (0.67 to 1.01) 0.73 (0.57 to 0.93)	187 155	0.72 (0.54 to 0.97) 0.77 (0.56 to 1.06)
Receptor Status Positive ^a Negative/Unknown ^b	2,066 1,055	293 331	0.92 (0.73 to 1.16) 0.68 (0.55 to 0.85)	126 216	0.83 (0.59 to 1.18) 0.71 (0.54 to 0.93)

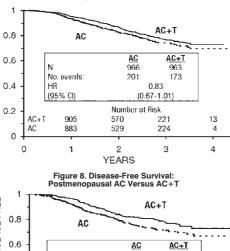
Positive for either estrogen or progesterone receptors. Venative or missing for both estrogen and progesterone receptors (both missing: n=15). These retrospective subgroup analyses suggest that the beneficial effect of pacitaxel is clearly established in the receptor-negative subgroup, but the benefit in receptor-positive patients is not yet clear. With respect to menopausal status, the benefit of pacitaxel is consistent (see **TABLE 4** nd FIGURES 5 to 8).

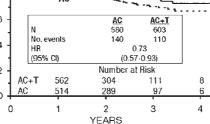
Figure 5. Disease-Free Survival: Receptor Status Negative/Unknown AC Versus AC+T











The adverse event profile for the patients who received paclitaxel subsequent to AC was consistent with that seen in the pooled analysis of data from 812 patients (TABLE 10) treated with single-agent pacificated in 10 clinical studies. These adverse events are described in the **ADVERSE REACTIONS** studies. These adverse events are described in the ADVERS section in tabular (TABLES 10 and 13) and narrative form.

After Failure of Initial Chemotherapy Data from 83 patients accrued in three Phase 2 open label studies and om 471 patients enrolled in a Phase 3 randomized study were available to support the use of paclitaxel in patients with metastatic breast carcinoma. Phase 2 Open Label Studies

Two studies were conducted in 53 patients previously treated with a naximum of one prior chemotherapeutic regimen. Paclitaxel was adminis ered in these two trials as a 24-hour infusion at initial doses of 250 mg/m² with G-CSF support) or 200 mg/m². The response rates were 579 95% CI: 37% to 75%) and 52% (95% CI: 32% to 72%), respectively. Th Phase 2 study was conducted in extensively pretreated patients who had failed anthracycline therapy and who had received a minimum of two themotherapy regimens for the treatment of metastatic disease. The dose of paclitaxel was 200 mg/m² as a 24-hour infusion with G-CSF support. Nine of 30 patients achieved a partial response, for a response rate of 30% (95% Cl: 15% to 50%).

Phase 3 Randomized Study This multicenter trial was conducted in patients previously treated with one or two regimens of chemotherapy. Patients were randomized to receive pacifiaxel at a dose of either 175 mg/m² or 135 mg/m² given as a 3-hour infusion. In the 471 patients enrolled, 60% had symptomatic disease with mpaired performance status at study entry, and 73% had visceral metas ases. These patients had failed prior chemotherapy either in the adjuvan setting (30%), the metastatic setting (39%), or both (31%). Sixty-sever percent of the patients had been previously exposed to anthracyclines and 23% of them had disease considered resistant to this class of agents. The overall response rate for the 454 evaluable patients was 26% (95% CI: 22% to 30%), with 17 complete and 99 partial responses. The median dura-tion of response, measured from the first day of treatment, was 8.1 months (range: 3.4 to 18.1 + months). Overall for the 471 patients, the median time to progression was 3.5 months (range: 0.03 to 17.1 months). Median survival was 11.7 months (range: 0 to 18.9 months).

Response rates, median survival and median time to progression for the 2 arms are given in the following table. TABLE 5: EFFICACY IN BREAST CANCER AFTER

FAILURE OF INITIAL CHEMOTHERAPY OR WITHIN 6 MONTHS OF ADJUVANT CHEMOTHERAPY					
	175/3 (n=235)		135/3 (n=236)		
Response rate (percent) p-value	28	0.135	22		
Time to Progression median (months) p-value	4.2	0.027	3		
Survival median (months) p-value	11.7	0.321	10.5		

The adverse event profile of the patients who received single-agent Paclitaxel Injection, USP, in the Phase 3 study was consistent with that seen for the pooled analysis of data from 812 patients treated in 10 clinical studies. These adverse events and adverse events from the Phase 3 breast carcinoma study are described in the ADVERSE REACTIONS section in tabular (TABLES 10 and 14). and **14**) and narrative form.

Non-Small Cell Lung Carcinoma (NSCLC)

Non-Small Cell Lung Carcinoma (NSCLC) In a Phase 3 open-label randomized study conducted by the ECOG, 599 patients were randomized to either paclitaxel (T) 135 mg/m² as a 24-hour infusion in combination with cisplatin (c) 75 mg/m², paclitaxel (T) 250 mg/m² as a 24-hour infusion in combination with cisplatin (c) 75 mg/m², with G-CSF support, or cisplatin (c) 75 mg/m² on day 1, followed by etoposide (VP) 100 mg/m² on days 1, 2, and 3 (control). Response rates, median time to progression, median survival, and 1-year survival rates are given in the following table. The reported p-values have not been adjusted for multiple comparisons. There were statistically significant differences favoring each of the paclitaxel plus cisplatin arms for response rate and time to tumor progression. There was no statistically significant differences in survival between either paclitaxel plus cisplatin arm and the cisplatin plus etoposide arm.

TABLE 6: EFFICACY PARAMETERS IN THE PHASE 3

	FINGI-LINE	NSCLC STUDT	
	T135/24 c75 (n=198)	T250/24 c75 (n=201)	VP100 ^a c75 (n=200)
 Response 			
- rate (percent)	25	23	12
- p-value ^b	0.001	< 0.001	
 Time to Progression 			
- median (months)	4.3	4.9	2.7
- p-value ^b	0.05	0.004	
 Survival 			
- median (months)	9.3	10	7.4
- p-value ^b	0.12	0.08	
 1-Year Survival 			
- percent of patients	36	40	32
^a Etoposide (VP) 100 mg/n	n ² was administered IV	/ on days 1, 2, and 3,	

n the ECOG study, the Functional Assessment of Cancer Therapy-Lung (FACT-L) questionnaire had 7 subscales that measured subjective assess-ment of treatment. Of the 7, the Lung Cancer Specific Symptoms subscale favored the paclitaxel 135 mg/m²/24 hour plus cisplatin arm compared to the cisplatin/etoposide arm. For all other factors, there was no difference in the treatment groups.

The adverse event profile for patients who received paclit with cisplatin in this study was generally consistent with that seen for the pooled analysis of data from 812 patients treated with single-agent paclitaxel in 10 clinical studies. These adverse events and adverse events from the Phase 3 first-line NSCLC study are described in the **ADVERSE REACTIONS** section in tabular (**TABLES 10** and **15**) and narrative form.

AIDS-Related Kaposi's Sarcoma ADS-related Rapps is Sarcoma Data from 2, Phase 2 open-label studies support the use of paclitaxel as second-line therapy in patients with AIDS-related Kaposi's sarcoma. Fifty-nine of the 85 patients enrolled in these studies had previously received systemic therapy, including interferon alpha (32%), Dauno Xome® (31%), DOXIL® (2%), and doxorubicin containing chemotherapy (42%), with 64% having received prior anthracyclines. Eighty-five percent of the pretreated patients had progressed on, or could not tolerate, prior systemic therapy.¹

In Study CA139-174 patients received paclitaxel at 135 mg/m² as a 3-hour

infusion every 3 weeks (intended dose intensity 45 mg/m²/week). If no dose-limiting toxicity was observed, patients were to receive 155 mg/m² and 175 mg/m² in subsequent courses. Hematopoietic growth factors were not to be used initially. In Study CA139-281, patients received paclitaxel at 100 mg/m² as a 3-hour infusion every 2 weeks (intended dose intensity 50 mg/m²/week). In this study patients could be receiving hematopoietic growth factors before the start of pacitaxel therapy, or this support was to be initiated as indicated; the dose of pacitaxel was not increased. The dose ntensity of paclitaxel used in this patient population was lower than the dos ntensity recommended for other solid tumors.

All patients had widespread and poor-risk disease. Applying the ACTG staging criteria to patients with prior systemic therapy, 939 or extent of disease (T1), 88% had a CD4 count <200 cel 97% had poor risk considering their systemic illness (S1).

All patients in Study CA139-174 had a Karnofsky performance status of 80 or 90 at baseline; in Study CA139-281, there were 26 (46%) patients with a Karnofsky performance status of 70 or worse at baseline.

TABLE 7. EXTENT OF DISEASE AT STUDY ENTRY PERCENT OF PATIENTS

	Prior Systemic Therapy (n=59)
Visceral \pm edema \pm oral \pm cutaneous	42
Edema or lymph nodes \pm oral \pm cutaneous	41
Oral ± cutaneous	10
Cutaneous only	7

Although the planned dose intensity in the 2 studies was slightly different (45 mg/m²/week in Study CA139-174 and 50 mg/m²/week in Study CA139-281), delivered dose intensity was 38 to 39 mg/m²/week in both studies, with a similar range (20 to 24 to 51 to 61).

The efficacy of paclitaxel was evaluated by assessing cutaneous tumor response according to the amended ACTG criteria and by seeking evidence of clinical benefit in patients in 6 domains of symptoms and/or conditions that are commonly related to AIDS-related Kaposi's sarcoma.

Cutaneous Tumor Response (Amended ACTG Criteria) The objective response rate was 59% (95% Cl. 46 to 72%) (35 of 59 patients ents with prior sy n patients with prior systemic therapy. Cutaneous responses were lefined as flattening of more than 50% of previously raised lesions

TABLE 8. OVERALL BEST RESPONSE (AMENDED ACTG CRITERIA) PERCENT OF PATIENTS Prior Systemic Therapy

	(n=59)
Complete response	3
Partial response	56
Stable disease	29
Progression	8
Early death/toxicity	3

The median time to response was 8.1 weeks and the median duration of d from the first day of treatment was 10.4 months (95% C 7 to 11 months) for the patients who had previously received systemic therapy. The median time to progression was 6.2 months (95% CI, 4.6 to 8 7 months)

Additional Clinical Benefit

Most data on patient benefit were assessed retrospectively (plans for such analyses were not included in the study protocols). Nonetheless, clinical descriptions and photographs indicated clear benefit in some patients, including instances of improved pulmonary function in patients with pulmo-nary involvement, improved ambulation, resolution of ulcers, and decreased and importential important and hardward in test and the advectigation and the advectigat the face, extremities, and genitalia.

The adverse event profile of paclitaxel administered to patients with advanced HIV disease and poor-risk AIDS-related Kaposi's sarcoma was generally similar to that seen in the pooled analysis of data from 812 patients with solid tumors. These adverse events and adverse events from the Phase 2 second-line Kaposi's sarcoma studies are described in the ADVERSE REACTIONS section in tabular (TABLES 10 and 16) and narrative form. In tion, however, a lower dose in of paclitaxel and supportive therapy including hematopoietic growth factors patients with severe neutropenia are recommended. Patients with AIDSelated Kaposi's sarcoma may have more severe hematologic toxicities tha

patients with solid tumors. INDICATIONS AND USAGE

Paclitaxel Injection, USP is indicated as subsequent therapy for the treatment of dvanced carcinoma of the ovary. As first-line therapy, Paclitaxel Injection, USP is indicated in combination with cisplatin.

Paclitaxel Injection, USP is indicated for the adjuvant treatment of nodepositive breast cancer administered sequentially to standard doxorubicin-containing combination chemotherapy. In the clinical trial, there was an overall favorable effect on disease-free and overall survival in the total population of patients with receptor-positive and receptor-negative tumors, but the benefit has been specifically demonstrated by available data (median follow-up 30 months) only in the patients with restrogen and progesterone receptor-negative tumors (see CLINICAL STUDIES, Breast Carcinoma).

Paclitaxel Injection, USP is indicated for the treatment of breast cancer after failure of combination chemotherapy for metastatic disease or relapse within 6 months of adjuvant chemotherapy. Prior therapy should have included an anthracycline unless clinically contraindicated.

Paclitaxel Injection, USP, in combination with cisplatin, is indicated for the first-line treatment of non-small cell lung cancer in patients who are not candidates for potentially curative surgery and/or radiation therapy. Paclitaxel Injection, USP is indicated for the second-line treatment of AIDSrelated Kaposi's sarcom

CONTRAINDICATIONS Paclitaxel is contraindicated in patients who have a history of hypers

reactions to paclitaxel or other drugs formulated in polyoxyl 35 castor oil. Paclitaxel should not be used in patients with solid tumors who have base line neutrophil counts of <1,500 cells/mm³ or in patients with AIDS-relate Kaposi's sarcoma with baseline neutrophil counts of <1,000 cells/mm³.

Anaphylaxis and severe hypersensitivity reactions characterized by dyspnea and hypotension requiring treatment, angioedema, and generalized uti-caria have occurred in 2 to 4% of patients receiving pacifitaxel in clinical trials. Fatal reactions have occurred in patients despite premedication. All patients build be retreated with antipatients despite premedication. atients should be pretreated with corticosteroids, diphenhydramine, and antagonists (see **DOSAGE AND ADMINISTRATION**). Patients who experience severe hypersensitivity reactions to paclitaxel should not be rechallenged with the drug.

Bone marrow suppression (primarily neutropenia) is dose-dependent and is bone marrow suppression (primarily neuropenia) is dose-dependent and is the dose-limiting toxicity. Neutrophi nadirs occurred at a median of 11 days. Paclitaxel should not be administered to patients with baseline neutrophi counts of less than 1,500 cells/mm³ (<1,000 cells/mm³ for patients with KS). Frequent monitoring of blood counts should be instituted during pacificaxel treatment. Patients should not be re-treated with subsequent cycles of pacification until neutrophile. paclitaxel until neutrophils recover to a level >1,500 cells/mm³ (>1,000 cells/mm³ for patients with KS) and platelets recover to a level >100,000 cells/mm³.

Severe conduction abnormalities have been documented in <1% of patients during pacifized therapy and in some cases requiring pacemaker placement. If patients develop significant conduction abnormalities during paclitaxel infusion, appropriate therapy should be administered and continuous cardiac monitoring should be performed during subsequent therapy with paclitaxel.

Pregnancy Paclitaxel can cause fetal harm when administered to a pregnant woman. Administration of paclitaxel during the period of organogenesis to rabbits at doses of 3 mg/kg/day (about 0.2 the daily maximum recommended human dose on a mg/m² basis) caused embryo-and fetotoxicity, as indicated by intrauterine mortality, increased resorptions, and increased fetal deaths. Maternal toxicity was also observed at this dose. No teratogenic effects were observed at 1 mg/kg/day (about 1/15 the daily maximum recommended human dose on a mg/m² basis); teratogenic potential could not be assessed at higher doses due to extensive fetal mortality.

There are no adequate and well-controlled studies in pregnant women. If Pacificate is used during pregnancy, or if the patient becomes pregnant while receiving this drug, the patient should be apprised of the potential hazard to the fetus. Women of child-bearing potential should be advised to

avoid becoming pregnant PRECAUTIONS

WARNINGS

Contact of the undiluted concentrate with plasticized polyvinyl chloride (C) equipment or devices used to prepare solutions for infusion is not nended. In order to minimize patient exposure to the plasticizer DEI di-(2-ethylhexyl)phthalate], which may be leached from PVC infusion bac or sets, diluted paclitaxel solutions should preferably be stored in bot (glass, polypropylene) or plastic bags (polypropylene, polyolefin) and administered through polyethylene-lined administration sets.

Paclitaxel should be administered through an in-line filter with a microporous membrane not greater than 0.22 microns. Use of filter devices such as VEX-28 filters which incorporate short inlet and outlet PVC-coated tubing has not resulted in significant filter devices such leaching of DEHP. Drug Interactions

In a Phase I trial using escalating doses of paclitaxel (110 to 200 mg/m²) and cisplatin (50 or 75 mg/m²) given as sequential infusions, myelosuppression was more profound when paclitaxel was given after cisplatin than with the

alternate sequence (i.e., paclitaxel before cisplatin). Pharmacokinetic data from these patients demonstrated a decrease in paclitaxel clearance of approximately 33% when paclitaxel was administered following cisplatin.

The metabolism of pacificate is was administered following displant. The metabolism of pacificate is catalyzed by cytochrome P450 isoenzymes CYP2C8 and CYP3A4. Caution should be exercised when adminis-tering pacificatel concomitantly with known substrates or inhibitors of the cytochrome P450 isoenzymes CVP2C8 and CYP3A4. Caution should be exercised when paclitaxel is concomitantly administered with known substrates (e.g., midazolam, buspirone, felodipine, lovastatin, eleritpitan, sildenafil, simvastatin, and triazolam), inhibitors (e.g., atazanavir, clarithromycin, indinavir, itraconazole, ketoconazole, nefazodone, nelfinavir, ritonavir, saquinavir, and telithromycin), and inducers (e.g., mitampin and carbamazepine) of CYP3A4 (see CLINICAL PHARMACOLOGY). Caution should also be exercised when paclitaxel is concomitantly adminis-

tered with known substrates (e.g., repaglinide and rosiglitazone), inhibitors (e.g., genfibrozil), and inducers (e.g., rifampin) of CYP2C8 (see CLINICAL PHARMACOLOGY).

Potential interactions between paclitaxel, a substrate of CYP3A4, and protease inhibitors (ritonavir, saquinavir, indinavir, and nelfinavir), which are substrates and/or inhibitors of CYP3A4, have not been evaluated in clinical trials.

Reports in the literature suggest that plasma levels of doxorubicin (and its active metabolite doxorubicinol) may be increased when paclitaxel and doxorubicin are used in combination.

Hematology Paclitaxel therapy should not be administered to patients with baseline neutrophil counts of less than 1,500 cells/mm³. In order to monitor the occurrence of myelotoxicity, it is recommended that frequent peripheral blood cell counts be performed on all patients receiving paclitaxel. Patients should not be re-treated with subsequent cycles of paclitaxel until neutro-phils recover to a level > 1,500 cells/mm³ and platelets recover to a level > 100,000 cells/mm³. In the case of severe neutropenia (<500 cells/mm³ for 7 days or more) during a course of paclitaxel therapy, a 20% reduction in dose for subsequent courses of therapy is recommended.

For patients with advanced HIV disease and poor-risk AIDS-related Kaposi's sarcoma, paclitaxel, at the recommended dose for this disease, can be initiated and repeated if the neutrophil count is at least 1,000 cells/mm Hypersensitivity Reactions

Patients with a history of severe hypersensitivity reactions to products

containing with a history of severe hypersensitivity reactions to products containing polyoxyl 35 castor oil (e.g., cyclosporin for injection concentrate and teniposide for injection concentrate) should not be treated with paclitaxel. In order to avoid the occurrence of severe hypersensitivity reac-tions, all patients treated with paclitaxel should be premedicated with corti-costeroids (such as dexamethascone), diphenhydramine and H₂ antagonists (such as cimetidine or ranitidine). Minor symptoms such as flushing, skin reactions, dispense divergence or tophycordia do part require interrup eactions, dyspnea, hypotension, or tachycardia do not require interrup on of therapy. However, severe reactions, such as hypotension requirin reatment, dyspnea requiring bronchodilators, angioedema, or generalized urticaria require immediate discontinuation of paclitaxel and aggressive symptomatic therapy. Patients who have developed severe hypersensitivit eactions should not be rechallenged with paclitaxel. Cardiovascular

Hypotension, bradycardia, and hypertension have been observed during administration of pacifitaxel, but generally do not require treatment. Occa-sionally pacifitaxel infusions must be interrupted or discontinued because of initial or recurrent hypertension. Frequent vital sign monitoring, particularly during the first hour of pacifitaxel infusion, is recommended. Continuous cardice provided a context or patients with excisus conducts. cardiac monitoring is not required except for patients with serious conduc-tion abnormalities (see **WARNINGS**). When paclitaxel is used in combination with doxorubicin for treatment of metastatic breast cancer, monitoring of cardiac function is recommended (see **ADVERSE REACTIONS**).

Nervous System Although the occurrence of peripheral neuropathy is frequent, the develop

ment of severe symptomatology is unusual and requires a dose reduction of 20% for all subsequent courses of paclitaxel. Paclitaxel contains dehydrated alcohol USP, 396 mg/mL; consideration should be given to possible CNS and other effects of alcohol (see **PRECAU-TIONS, Pediatric Use**).

There is limited evidence that the myelotoxicity of paclitaxel may be exac-erbated in patients with serum total bilirubin >2 times ULN (see CLINICAL PHARMACOLOGY). Extreme caution should be exercised when adminis-

tering paclitaxel to such patients, with dose reduction as recommended in DOSAGE AND ADMINISTRATION, TABLE 17. Injection Site Reaction

Injection site reactions, including reactions secondary to extravasation, were usually mild and consisted of erythema, tenderness, skin discoloration, or swelling at the injection site. These reactions have been observed more requently with the 24-hour infusion than with the 3-hour infusion. Recurrence

of skin reactions at a site of previous extravasation following administration of paclitaxel at a different site, i.e., "recall", has been reported. More severe events such as phlebitis, cellulitis, induration, skin exfoliation necrosis, and fibrosis have been reported. In some cases, the onset of the njection site reaction either occurred during a prolonged infusion or was

delayed by a week to 10 days. A specific treatment for extravasation reactions is unknown at this time. Give the possibility of extravasation, it is advisable to closely monitor the infusion site for possible infiltration during drug administration.

Carcinogenesis, Mutagenesis, Impairment of Fertility

he carcinogenic potential of paclitaxel has not been studied. Paclitaxel has been shown to be clastogenic in vitro (chromosome aber rations in human lymphocytes) and *in vivo* (micronucleus test in mice). Paclitaxel was not mutagenic in the Ames test or the CHO/HGPRT gene mutation assay.

Administration of paclitaxel prior to and during mating produced impair ment of fertility in male and female rats at doaling mating produced mpain ment of fertility in male and female rats at does equal to or greater than 1 mg/kg/day (about 0.04 the daily maximum recommended human dose on a mg/m² basis). At this dose, to or greater than 1 mg/kg/day (about 0.04 the daily maximum recommended human dose on a mg/m² basis). At this pacifitatel caused reduced fertility and reproductive indices, and increased embryo- and fetotoxicity (see **WARNINGS**).

Pregnancy

Pregnancy Category D (see WARNINGS). Nursing Mothers

It is not known whether the drug is excreted in human milk. Following

It is not known whether the drug is excreted in numan milk. Following intravenous administration of carbon-14 labeled pacitaxel to rats on days 9 to 10 postpartum, concentrations of radioactivity in milk were higher than in plasma and declined in parallel with the plasma concentrations. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants, it is recommended that nursing be discontinued when receiving paclitaxel therapy.

Pediatric Use The safety and effectiveness of paclitaxel in pediatric patients have not

There have been reports of central nervous system (CNS) toxicity (rarely Inere have been reports of central nervous system (CNS) toxicity (rarely associated with death) in a clinical trial in pediatric patients in which paclitaxel was infused intravenously over 3 hours at doses ranging from 350 mg/m² to 420 mg/m². The toxicity is most likely attributable to the high dose of the ethanol component of the paclitaxel vehicle given over a short infusion time. The use of concomitant antihistamines may intensify this effect. Although a direct effect of the paclitaxel itself cannot be discounted, the high doses used in this study (over twice the recommended adult dosage) must be considered in assessing the discounted, the high doses used in this study safety of paclitaxel for use in this population.

Geriatric Use

Of 2.228 patients who received paclitaxel in 8 clinical studies evaluating Of 2,228 patients who received paclitaxel in 8 clinical studies evaluating its safety and effectiveness in the treatment of advanced ovarian cancer, breast carcinoma, or NSCLC, and 1,570 patients who were randomized to receive paclitaxel in the adjuvant breast cancer study, 649 patients (17%) were 65 years or older and 49 patients (1%) were 75 years or older. In most studies, severe myelosuppression was more frequent in elderly patients. In some studies, severe neuropathy was more common in elderly patients. In 2 clinical studies in NSCLC, the elderly patients treated with paclitaxel had a higher incidence of cardiovascular events. Estimates of efficacy appeared similar in elderly patients and in younger patients; however, comparative efficacy cannot be determined with confidence due to the small number of elderly patients studied. In a study of first-line treatment of ovarian cancer,

ne Marrow

- Neutropenia

Leukopenia Thrombocytopenia

- Anemia
- Infections
- Bleedina Red Cell Transfusion
- Platelet Transfusions
- ypersensitivity Reaction
- Severet
- Cardiovascular - Vital Sign Changes^c

Bradycardia (n=537) Hypotension (n=532)

Significant Cardiovascul bnormal ECG

- All Pts - Pts with normal baseli Peripheral Neuropathy

- Any symptoms Severe symptoms

algia/Arthralgia - Any symptoms

 Severe symptoms[†] ointestinal - Nausea and vomiting

Hepatic (Pts with normal

- Bilirubin elevations (n=

- Alkaline phosphatase ele

- AST (SGOT) elevations

Injection Site Reaction

- Diarrhea

- Mucositis

Alopecia



elderly patients had a lower median survival than younger patients, but no other efficacy parameters favored the younger group. **TABLE 9** presents the incidences of Grade IV neutropenia and severe neuropathy in clinical studies are according to the severe neuropathy of the severe neuropathy in clinical se idies according to age.

TABLE 9: SELECTED ADVERSE EVENTS IN GERIATRIC PATIENTS RECEIVING PACLITAXEL IN CLINICAL STUDIES

	Patients [n/total (%)]				
	Neutropenia (Grade IV)		Peripheral Neuropathy (Grades III/IV)		
INDICATION	Ag	e (y)	Age (y)		
(Study/Regimen)	≥65	<65	≥65	<65	
 OVARIAN Cancer 					
(Intergroup First-Line/ T175/3 c75 ^a)	34/83 (41)	78/252 (31)	24/84 (29)*b	46/255 (18) ^b	
(GOG-111 First-Line/ T135/24 c75 ^a)	48/61 (79)	106/129 (82)	3/62 (5)	2/134 (1)	
(Phase 3 Second-Line/ T175/3 ^c)	5/19 (26)	21/76 (28)	1/19 (5)	0/76 (0)	
(Phase 3 Second-Line/ T175/24 ^c)	21/25 (84)	57/79 (72)	0/25 (0)	2/80 (3)	
(Phase 3 Second-Line/ T135/3 ^c)	4/16 (25)	10/81 (12)	0/17 (0)	0/81 (0)	
(Phase 3 Second-Line/ T135/24 ^c)	17/22 (77)	53/83 (64)	0/22 (0)	0/83 (0)	
(Phase 3 Second-Line Pooled)	47/82 (57)*	141/319 (44)	1/83 (1)	2/320 (1)	
 Adjuvant BREAST Cancer 					
(Intergroup/AC followed by T ^d)	56/102 (55)	734/1,468 (50)	5/102 (5) ^e	46/1,468 (3)	
BREAST Cancer After Failure of Initial Therapy					
(Phase 3/T175/3°)	7/24 (29)	56/200 (28)	3/25 (12)	12/204 (6)	
(Phase 3/T135/3c)	7/20 (35)	37/207 (18)	0/20 (0)	6/209 (3)	
 Non-Small Cell LUNG Cancer 					
(ECOG/T135/24 c75a)	58/71 (82)	86/124 (69)	9/71 (13) ^f	16/124 (13)	
(Phase 3/T175/3 c80 ^a)	37/89 (42)*	56/267 (21)	11/91 (12)*	11/271 (4)	

<0.03 actitaxel dose in mg/m²/infusion duration in hours; cisplatin doses in mg/m². eripheral neuropathy was included within the neurotoxicity category in the Intergroup First-Line varian Cancer study (see TABLE 11). content does in content of the terms of the terms.

Cvanial Cancer study (see TABLE 11). ¹ Pacificate() following 4 courses of doxorubicin and cyclophosphamide (AC) at a dose of ¹ Pacificate() following 4 courses of doxorubicin and cyclophosphamide (AC) at a dose of ¹ Pripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neurosensory toxicity in the Intergroup Adjuvant Breast Cancer Peripheral neuropathy reported as neuropathy neuropathy reported as neuropathy neuropathy neuropathy neuropathy neuropathy neuropathy neuropathy neuropa

neuropathy reported as neurosensory toxicity in the ECOG NSCLC study (see TABLE 15).

Information for Patients (see Patient Information Leaflet)

ADVERSE REACTIONS Pooled Analysis of Adverse Event Experiences from Single-Agent

Data in the following table are based on the experience of 812 patients Data in the following table are based on the experience of 812 patients (493 with ovarian carcinoma and 319 with breast carcinoma) enrolled in 10 studies who received single-agent paclitaxel injection. Two hundred and seventy-five patients were treated in 8, Phase 2 studies with paclitaxel doses ranging from 135 to 300 mg/m² administered over 24 hours (in 4 of these studies, G-CSF was administered as hematopoietic support). Three hundred and one patients were treated in the randomized Phase 3 ovarian carcinoma tudy which compared 2 doses (135 or 175 mg/m²) and 2 schedules (3 or 4 hours) of paclitaxel.

Two hundred and thirty-six patients with breast carcinoma received pacitaxel (135 or 175 mg/m²) administered over 3 hours in a controlled

TABLE 10. SUMMARY^a OF ADVERSE EVENTS IN PATIENTS WITH SOLID TUMORS RECEIVING SINGLE-AGENT PACLITAXEL

SOLID TUNIORS	RECEIVING SINGLE-A	
		Percent of Patients (n=812)
e Marrow		
Veutropenia	< 2,000/mm ³	90
	< 500/mm ³	52
eukopenia	< 4,000/mm ³	90
	< 1,000/mm ³	17
Thrombocytopenia	< 100,000/mm ³	20
	< 50,000/mm ³	7
Anemia	< 11 g/dL	78
	< 8 g/dL	16
nfections		30
Bleeding		14
Red Cell Transfusions		25
Platelet Transfusions		2
ersensitivity Reaction ^b		
All		41
Severe [†]		2
iovascular		
/ital Sign Changes ^c		
Bradycardia (n=537)		3
Hypotension (n=532)		12
Significant Cardiovascula	r Events	1
ormal ECG		
All Pts		23
Pts with normal baseline	14	
pheral Neuropathy		
Any symptoms		60
Severe symptoms ⁺	3	
lgia/Arthralgia		
Any symptoms		60
Severe symptoms ⁺		8
rointestinal		
Vausea and vomiting		52
Diarrhea		38
Mucositis		31
ecia		87
atic (Pts with normal ba	seline and on study data)	
Bilirubin elevations (n=7)	65)	7
Alkaline phosphatase elev	22	
AST (SGOT) elevations (r	19	
tion Site Reaction		13
d on worst course analys tients received premedic		

uring the first 3 hours of infusion. evere events are defined as at least Grade III toxicit

None of the observed toxicities were clearly influenced by age Disease-Specific Adverse Event Experiences

First-Line Ovary in Combination

For the 1,084 patients who w line ovary combination theral of important adverse events. based on all courses of theral to 9 courses for the Intergroup	by studies, For both s	TABLE 1 tudies. the	1 shows the analysis of	e incidence safetv was
TABLE 11: FREQUENCY ^a OF IMPORTANT ADVERSE EVENTS IN THE PHASE 3 FIRST-LINE OVARIAN CARCINOMA STUDIES				
Percent of Patients				
	Intergroup GOG-111			
	T175/3 ^b c75 ^c (n=339)	C750° c75° (n=336)	T135/24 ^b c75 ^c (n=196)	C750° c75° (n=213)
Bone Marrow Neutropenia < 2.000/mm ³	91 ^d	95 ^d	96	92

		Intergroup		000-111	
		T175/3 ^b c75 ^c (n=339)	C750° c75° (n=336)	T135/24 ^b c75 ^c (n=196)	C750° c75° (n=213)
 Bone Marrow 					
- Neutropenia	< 2.000/mm ³	91 ^d	95 ^d	96	92
	< 500/mm ³	33 ^d	43 ^d	81 ^d	58 ^d
- Thrombocytopenia	< 100.000/mm ^{3e}	21 d	33 d	26	30
	< 50,000/mm ³	3 d	7 d	10	9
		-			-
- Anemia	< 11 g/dL ^f	96	97	88	86
74101114	< 8 g/dL	3 d	8 d	13	9
	< 0 g/uL	0	0	10	Ĵ
- Infections		25	27	21	15
- Febrile Neutroper	nia	4	7	15 ^d	4 d
Hypersensitivity Re				10	
- All	aouon	11 ^d	6 ^d	8 d,g	1 d,g
- Severe†		1	1	3 d.g	d,g
 Neurotoxicity^h 				0	
- Any symptoms		87 d	52 d	25	20
- Severe symptoms ⁺		21 d	2 d	3 d	d
Nausea and Vomiting			-		
- Any symptoms	ing	88	93	65	69
- Severe symptoms [†]		18	24	10	11
 Myalgia/Arthralgia 	,	10	24	10	
- Any symptoms		60 d	27 d	9 d	2 d
- Severe symptoms [†]		6 d	1 d	1	
Diarrhea	,			1	
- Any symptoms		37 d	29 d	16 ^d	8 d
- Severe symptoms	at	2	3	4	1
Asthenia	, 		5	,	- í
 Astrienta Any symptoms 		NC	NC	17 d	10 d
- Severe symptoms	at	NC	NC	1	1
Alopecia	<i>.</i>	NU	NU		
 Alopecia Any symptoms 		96 ^d	89 d	55 d	37 d
- Severe symptoms	st l	51 d	21 d	6	8
^a Based on worst col		51-	21-	0	
 based off worst coll Paclitaxel (T) dose Cyclophosphamide 	in ma/m²/infusion a	duration in hou dose in mg/m	rs. ².		

p < 0.05 by Fisher exact test. < 130,000/mm³ in the Intergroup study. <12 g/dL in the Intergroup study.

r received premedication. -111 study, neurotoxicity was collected as peripheral neuropathy and in the Intergroup rotoxicity was collected as either neuromotor or neurosensory symptoms.

vents are defined as at least Grade III toxicity.

Second-Line Ovarv

For the 403 patients who received single-agent paclitaxel injection in the Phase 3 second-line ovarian carcinoma study, the following table shows the insidence of important adverse querte incidence of important adverse events. TABLE 12. FREQUENCY^a OF IMPORTANT ADVERSE EVENTS IN THE

		Percent of Patients			
		175/3 ^b (n=95)	175/24 ^b (n=105)	135/3 ^b (n=98)	135/24 ^b (n=105)
Bone Marrow					
-Neutropenia	<2,000/mm ³ <500/mm ³	78 27	98 75	78 14	98 67
-Thrombocytopenia	<100,000/mm ³ <50,000/mm ³	4 1	18 7	8 2	6 1
- Anemia	<11 g/dL <8 g/dL	84 11	90 12	68 6	88 10
- Infections	-	26	29	20	18
Hypersensitivity Reaction ^C 41 45 38 - Ail 2 0 2		45 1			
Peripheral Neuropa - Any symptoms - Severe symptoms		63 1	60 2	55 0	42 0
Mucositis - Any symptoms - Severe symptoms	s [†]	17 0	35 3	21 0	25 2

Paclitxel does in mg/m²/infusion duration in hours.
 All patients received premedication.
 * Severe events are defined as at least Grade III toxicity.

Myelosuppression was dose and schedule related, with the schedule effect vas no apparent dose or schedule effect seen for the HSRs. Perir athy was clearly dose related, but schedule did not appear to affect

Adiuvant Breast

For the Phase 3 adjuvant breast carcinoma study, the following table show or the Phase 3 adjuvant preast carcinoma suby, the provining table shows he incidence of important severe adverse events for the 3,121 patient total population) who were evaluable for safety as well as for a group c 325 patients (early population) who, per the study protocol, were monitore intensively than other patients

TABLE 13 EREQUENCY^a OF IMPORTANT SEVERE^b ADVERSE EVENTS IN THE PHASE 3 ADJUVANT BREAST CARCINOMA STUD

	Percent of Patients			
	Early Population Total Population			pulation
	AC° (n=166)	AC ^c followed by T ^d (n=159)	AC° (n=1,551)	AC ^c followed by T ^d (n=1,570)
 Bone Marrow^e 				
- Neutropenia < 500/mm ³	79	76	48	50
-Thrombocytopenia < 50,000/mm ³	27	25	11	11
- Anemia < 8 g/dL	17	21	8	8
- Infections	6	14	5	6
- Fever without Infection	-	3	<1	1
Hypersensitivity Reaction ^f 1 4 1		1	2	
Cardiovascular Events	s 1 2 1 2		2	
Neuromotor Toxicity	1	1	<1	1
 Neurosensory Toxicity 	-	3	<1	3
• Myalgia/Arthralgia	-	2	<1	2
Nausea/Vomiting	13	18	8	9
Mucositis	13	4	6	5
^a Based on worst course analysis.				

⁴ Based on worst course analysis.
 ⁵ Severe events are defined as at least Grade III toxicity.
 ⁶ Patients received 600 mg/m² cyclophospharnide and doxonubicin (AC) at doses of either 60 mg/m², 75 mg/m², or 90 mg/m² (with prophylactic 6-CSF support and ciprofloxacin), every 3 weeks for 4 courses.
 ⁶ Pacitizael (1) following 4 courses of AC at a dose of 175 mg/m²/3 hours every 3 weeks for

4 courses. The incidence of febrile neutropenia was not reported in this study.

The incidence of an adverse event for the total population likely repre-sents an underestimation of the actual incidence given that safety data were collected differently based on enrollment cohort. However, since safety data were collected consistently across regimens, the safety of the sequential addition of pacitaxel following AC therapy may be compared with AC therapy alone. Compared to patients who received AC alone, patients who received AC followed by pacititaxel experienced more Grade III//V neurologic pain (5% vs 1%), more Grade III//V multilke symptoms (5% vs 3%), and more Grade III/V houring the additional 3%), and more Grade III/IV hyperglycemia (3% vs 1%). During the additiona 4 courses of treatment with pacitaxel, 2 deaths (0.1%) were attributed to treatment. During pacitaxel treatment, Grade IV neutropenia was reported for 15% of patients, Grade II/III neurosensory toxicity for 15%, Grade II/II myalgias for 23%, and alopecia for 46%.

Hepatic Impairment

2 to <

of diarrhea prior to study start (see CLINICAL STUDIES: AIDS-Related

In the first-line Phase 3 ovarian carcinoma studies, the incidence of nausea

and vomiting when paclitaxel was administered in combination with cisplatin appeared to be greater compared with the database for single-agent paclitaxel in ovarian and breast carcinoma. In addition, diarrhea of any grade

was reported more frequently compared to the control arm, but there was no difference for severe diarrhea in these studies.

ntestinal obstruction, intestinal perforation, pancreatitis, ischemic colitis,

dehydration, esophagitis, constipation, and ascites have been reported. Neutropenic enterocolitis (typhlitis), despite the coadministration of G-CSF,

vas observed in patients treated with paclitaxel alone and in combination

Injection site reactions including reactions secondary to extravasation were

sually mild and consisted of erythema, tenderness, skin discoloration, or welling at the injection site. These reactions have been observed more requently with the 24-hour infusion than with the 3-hour infusion. Recurrence

of skin reactions at a site of previous extravasation following administration

More severe events such as phlebitis cellulitis induration skin exfoliation

A specific treatment for extravasation reactions is unknown at this time. Given

he possibility of extravasation, it is advisable to closely monitor the infusion

Alopecia was observed in almost all (87%) of the patients. Transient skin

changes due to paclitaxel-related hypersensitivity reactions have been observed, but no other skin toxicities were significantly associated with

pacifitaxel administration. Nail changes (changes in pigmentation or discol-oration of nail bed) were uncommon (2%). Edema was reported in 21% of all patients (17% of those without baseline edema); only 1% had severe edema

and none of these patients required treatment discontinuation. Edema was

nost commonly focal and disease-related. Edema was observed in 5%

of all courses for patients with normal baseline and did not increase with

Skin abnormalities related to radiation recall as well as maculopapular rash

pruritus, Stevens-Johnson syndrome, and toxic epidermal necrolysis have been reported. In postmarketing experience, diffuse edema, thickening,

and sclerosing of the skin have been reported following paclitaxel admin

Reports of asthenia and malaise have been received as part of the continuing

surveillance of paclitaxel safety. In the Phase 3 trial of paclitaxel 135 mg/m² over 24 hours in combination with cisplatin as first-line therapy of ovarian

cancer, asthenia was reported in 17% of the patients, significantly greater

han the 10% incidence observed in the control arm of cyclophosphamide

Conjunctivitis, increased lacrimation, anorexia, confusional state, photopsia,

Upon inhalation, dyspnea, chest pain, burning eyes, sore throat, and nausea have been reported. Following topical exposure, events have included

To report SUSPECTED ADVERSE REACTIONS, contact Fresenius Kabi USA, LLC at 1-800-551-7176 or FDA at 1-800-FDA-1088

There is no known antidote for paclitaxel overdosage. The primary antici-pated complications of overdosage would consist of bone marrow suppres-sion, peripheral neurotoxicity, and mucositis.

Overdoses in pediatric patients may be associated with acute ethanol toxicity

NOTE: Contact of the undiluted concentrate with plasticized PVC equipment or devices used to prepare solutions for infusion is not recommended. In order to minimize patient exposure to the plasticizer DEHP [di-(2-ethylhexyl) phthalate], which may be leached from PVC infusion bags or sets, diluted

aclitaxel solutions should be stored in bottles (glass, polypropylene) or plasti

ags (polypropylene, polyplefin) and administered through polypthylene-ined administration sets.

All patients should be premedicated prior to paclitaxel administration in

order to prevent severe hypersensitivity reactions. Such premedication may consist of dexamethasone 20 mg PO administered approximately 12 and

6 hours before paclitaxel, diphenhydramine (or its equivalent) 50 mg I V

30 to 60 minutes prior to pacitaxel, and cimetidine (300 mg) or ranitidine (50 mg) I.V. 30 to 60 minutes before pacitaxel.

For patients with carcinoma of the ovary, the following regimens are recom-

1. For previously untreated patients with carcinoma of the ovary, one of

the following recommended regimens may be given every 3 weeks. In

selecting the appropriate regimen, differences in toxicities should be considered (see TABLE 11 in ADVERSE REACTIONS, Disease-Specific Adverse Event Experiences).

1. Paclitaxel administered intravenously over 3 hours at a dose of

2 Paclitaxel administered intravenously over 24 hours at a dose of

175 mg/m² followed by cisplatin at a dose of 75 mg/m²; or

135 mg/m² followed by cisplatin at a dose of 75 mg/m².

nistered intravenously over 3 hours every 3 weeks.

mended: (see CLINICAL STUDIES, Ovarian Carcinoma):

visual floaters, vertigo, and increase in blood creatinine have been repo

stration. Paclitaxel has been reported to exacerbate signs and symptoms

necrosis, and fibrosis have been reported. In some cases the onset of the injection site reaction either occurred during a prolonged infusion or was delayed by a week to 10 days.

of paclitaxel at a different site, i.e., "recall", has been reported.

site for possible infiltration during drug administration.

Kaposi's Sarcoma).

with other chemotherapeutic agents.

Injection Site Reaction

Other Clinical Events

ime on study.

of scleroderma.

Accidental Exposure

OVERDOSAGE

ingling, burning, and redness.

see PRECAUTIONS, Pediatric Use).

DOSAGE AND ADMINISTRATION

or www.fda.gov/medwatch.

Stability

to be effective. For patients with non-small cell lung carcinoma, the recommended regimen, given every 3 weeks, is paclitaxel administered intravenou over 24 hours at a dose of 135 mg/m² followed by cisplatin, 75 mg/m². or patients with AIDS-related Kaposi's sarcoma, paclitaxel administered

oxorubicin-containing combination chemotherapy. The clinical tria

6 months of adjuvant chemotherapy, paclitaxel at a dose of 175 mg/m²

administered intravenously over 3 hours every 3 weeks has been shown

4 courses of doxorubicin and cyclophosphamide (see CLINICAL

at a dose of 100 mg/m² given intravenously over 3 hours every 2 weeks is recommended (dose intensity 45 to 50 mg/m²/week). In the 2 clinical trials evaluating these schedules (see **CLINICAL STUDIES, AIDS-Related** Kaposi's Sarcoma), the former schedule (135 mg/m² every 3 weeks) was nore toxic than the latter. In addition, all patients with low performance status were treated with the latter schedule (100 mg/m² every 2 weeks). wing modifications are recommended in these patients

at least 1,000 cells/mm3

at a dose of 135 mg/m² given intravenously over 3 hours every 3 weeks or

Based upon the immunosuppression in patients with advanced HIV disease, 1. Reduce the dose of dexamethasone as 1 of the 3 premedication drugs

to 10 mg PO (instead of 20 mg PO); 2. Initiate or repeat treatment with paclitaxel only if the neutrophil count is

3. Reduce the dose of subsequent courses of paclitaxel by 20% for patients who experience severe neutropenia (neutrophil <500 cells/mm³ for a week or longer); and

 In patients previously treated with chemotherapy for carcinoma of the ovary, paclitaxel has been used at several doses and schedules; however, the optimal regimen is not yet clear. (see CLINICAL STUDIES, Ovarian Carcinoma). The recommended regimen is paclitaxel 135 mg/m² or 175 mg/m For patients with carcinoma of the breast, the following is recommended ee CLINICAL STUDIES, Breast Carcinoma): 1. For the adjuvant treatment of node-positive breast cancer, the recommended regimen is paclitaxel, at a dose of 175 mg/m² intravenously over 3 hours every 3 weeks for 4 courses administered sequentially to hroughout the treatment period. STUDIES, Breast Carcinoma). 2. After failure of initial chemotherapy for metastatic disease or relapse within

No relationship was observed between liver function abnormalities and either dose or schedule of paclitaxel administration. Among patients with normal baseline liver function 7%, 22%, and 19% had elevations in bilirubin, alkaline phosphatase, and AST (SGOT), respectively. Prolonged exposure to paclitaxel was not associated with cumulative hepatic toxicity.

Among the patients treated for Kaposi's sarcoma with paclitaxel 5 patients had renal toxicity of grade III or IV severity. One patient with suspected HIV nephropathy of grade IV severity had to discontinue therapy. The other

with the 24-hour than with the 3-hour infusion.

diarrhea, and mucositis were reported by 69%, 79%, and 28% of patients respectively. One-third of patients with Kaposi's sarcoma complained

dence in patients with ovarian or breast cancer treated with single-age

There was no consistent relationship between dose or schedule of paclitaxel and the frequency or severity of arthralgia/myalgia. Sixty percent of all patients treated experienced arthralgia/myalgia; 8% experienced severe symptoms. The symptoms were usually transient, occurred 2 or 3 days after paclitaxel administration, and resolved within a few days. The equency and severity of musculoskeletal symptoms remained unchanged

Hepatic

lepatic necrosis and hepatic encephalopathy leading to death have been

Renal

4 patients had renal insufficiency with reversible elevations of serum creatinine Patients with gynecological cancers treated with paclitaxel and cisplatin may have an increased risk of renal failure with the combination therapy of paclitaxe nd cisplatin in gynecological cancers as compared to cisplatin alone. Gastrointestinal (GI)

Nausea/vomiting, diarrhea, and mucositis were reported by 52%, 38%, and 31% of all patients, respectively. These manifestations were usually mild to noderate. Mucositis was schedule dependent and occurred more frequently

In patients with poor-risk AIDS-related Kaposi's sarcoma, nausea/vomiting

references that in the Phase 3 second-line ovarian study, infectious episodes vere reported in 20% and 26% of the patients treated with a dose of 35 mg/m^2 or 175 mg/m² given as a 3-hour infusions respectively. Urinary tract infections and upper respiratory tract infections were the most frequently reported infectious complications. In the immunosuppretient population with advanced HIV disease and poor-risk AIDS-related

kaposi's sarcoma, 61% of the patients reported at least one opportunisti infection (see CLINICAL STUDIES, AIDS-Related Kaposi's Sarcoma) The use of supportive therapy, including G-CSF, is recommended for patients who have experienced severe neutropenia (see DOSAGE AND ADMINISTRATION). Thrombocytopenia was reported. Twenty percent of the patients experi

enced a drop in their platelet count below 100,000 cells/mm³ at least once while on treatment; 7% had a platelet count <50,000 cells/mm³ at the time of their worst nadir. Bleeding episodes were reported in 4% of all courses and by 14% of all patients but most of the hemorrhadic episodes were localized and the frequency of these events was unrelated to the paclitaxel dose and schedule. In the Phase 3 second-line ovarian study, bleeding episodes were reported in 10% of the patients; no patients treated with the 3- hour infusion received platelet transfusions. In the adjuvant breast carcinoma trial, the incidence of severe thrombocytopenia and platelet transfusions increased

with higher doses of doxorubicin Anemia (Hb <11 g/dL) was observed in 78% of all patients and was severe (Hb <8 g/dL) in 16% of the cases. No consistent relationship between dose or schedule and the frequency of anemia was observed. Among all patients with the set of the se

with normal baseline hemoglobin, 69% became anemic on study but only 7% had severe anemia. Red cell transfusions were required in 25% of all emoglobin. 69% became anemic on study but only 7% had severe anemi Red cell transfusions were required in 25% of all patients and in 12% of those with normal baseline hemoglobin levels.

Hypersensitivity Reactions (HSRs)

All patients received premedication prior to paclitaxel administration (see **WARNINGS** and **PRECAUTIONS: Hypersensitivity Reactions**). The frequency and severity of HSRs were not affected by the dose or schedule of paclitaxel administration. In the Phase 3 second-line ovarian study, the 3-hour infusion was not associated with a greater increase in HSRs when compared to the 24-hour influsion. Hypersensitivity reactions were observed in 20% of all courses and in 41% of all patients. These reactions were severe in less than 2% of the patients and 1% of the courses. No severe reactions were observed after course 3 and severe symptoms occurred generally within the first hour of paclitaxel infusion. The most frequent symptom observed during these severe reactions were dyspnea. flushing, chest pair d tachycardia. Abdominal pain, pain in the extremities, diaphoresis, and ypertension were also noted

he minor hypersensitivity reactions consisted mostly of flushing (28%) rash (12%), hypotension (4%), dyspnea (2%), tachycardia (2%), and hypertension (1%). The frequency of hypersensitivity reactions remained relatively stable during the entire treatment period.

 Bone Marrov - Neutropenia < 2.000/mm³ $< 500/mm^{3}$ Thrombocytopenia < normal < 50,000/mn - Anemia < normal < 8 g/dL Hypersensitivity Reaction 27 • Arthralgia/Myalgia 42^e - Any symptoms 21^e Severe symptoms⁺ Nausea/Vomiting 87 - Any symptoms 85 Severe symptoms⁺ Mucositis 28 18 - Any symptoms - Severe symptoms Neuromotor Toxicity 47 44 - Any symptoms Severe symptoms⁺ Neurosensory Toxicity - Severe symptoms † Cardiovascular Events 39 - Any symptoms 33 24 Severe symptoms⁺

The incidences of severe hematologic toxicities, infections, mucositis, and cardiovascular events increased with higher doses of doxorubicin.

For the 458 patients who received single-agent paclitaxel in the Phase 3

breast carcinoma study, the following table shows the incidence of impor-tant adverse events by treatment arm (each arm was administered by a

TABLE 14: FREQUENCY^a OF IMPORTANT ADVERSE EVENTS IN THE PHASE 3 STUDY OF BREAST CANCER AFTER FAILURE OF INITIAL CHEMOTHERAPY OR WITHIN 6 MONTHS OF ADJUVANT CHEMOTHERAPY

Percent of Patient

23

Percent of Patients

VP100^d c75 (n=196)

T135/24^b T250/24^c c75 c75 (n=195) (n=197)

Myelosuppression and peripheral neuropathy were dose related. There was one severe hypersensitivity reaction (HSR) observed at the dose of

In the study conducted by the Eastern Cooperative Oncology Group

(ECOG), patients were randomized to either paclitaxel (T) 135 mg/m² as a 24-hour infusion in combination with cisplatin (c) 75 mg/m², paclitaxel (T) 250 mg/m² as a 24-hour infusion in combination with cisplatin (c) 75 mg/m²

with G-CSF support, or cisplatin (c) 75 mg/m² on day 1, followed by etopo-side (VP) 100 mg/m² on days 1, 2, and 3 (control).

TABLE 15. FREQUENCY^a OF IMPORTANT ADVERSE EVENTS IN THE PHASE 3 STUDY FOR FIRST-LINE NSCLC

The following table shows the incidence of important adverse events.

31

46

Breast Cancer After Failure of Initial Chemotherapy

< 2,000/mr

< 500/mm³

< 100,000/mr

< 50,000/mm

< 11 g/dL

< 8 g/dL

3-hour infusion

Bone Marrow

- Anemia

- Infections

Neutropenia

Thrombocytopenia

- Febrile Neutropenia

Peripheral Neuropath

- Any symptoms

Severe symptoms[†]

- Any symptoms

Severe symptoms[†]

^a Based on worst course analysis.
 ^b Paclitaxel dose in mg/m²/infusion duration in hours.
 ^c All patients received premedication.

* Severe events are defined as at least Grade III toxicity.

First-Line NSCLC in Combination

Hypersensitivity Reaction

Pacifitzed (T) dose in mg/m²/infusion duration in hours; cisplatin (c) dose in mg/m².
 Pacifitzed dose in mg/m²/infusion duration in hours with G-CSF support; cisplatin dose in mg/m².
 Etoposide (VP) dose in mg/m² was administered IV on days 1, 2, and 3; cisplatin dose in mg/m².
 >0.005.

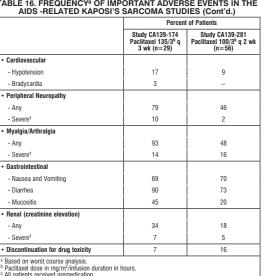
Severe events are defined as at least Grade III toxicity.

Toxicity was generally more severe in the high-dose paclitaxel treatment arm (T250/c75) than in the low-dose paclitaxel arm (T135/c75). Compared to the cisplatin/etoposide arm, patients in the low-dose paclitaxel arm experienced more arthralgia/myalgia of any grade and more severe neutropenia. The incidence of febrile neutropenia was not reported in this study.

Kaposi's Sarcoma

The following table shows the frequency of important adverse events in the

TABLE 16. FREQU AIDS -R	ENCY ^a OF IMP	0 0	SE EVENTS IN TH	
		Percent of Patients		
		Study CA139-174 Paclitaxel 135/3 ^b q 3 wk (n=29)	Study CA139-281 Paclitaxel 100/3 ^b q 2 w (n=56)	
 Bone Marrow 				
- Neutropenia	< 2,000/mm ³	100	95	
	< 500/mm ³	76	35	
- Thrombocytopenia	< 100,000/mm ³	52	27	
	< 50,000/mm ³	17	5	
- Anemia	< 11 g/dL	86	73	
	< 8 g/dL	34	25	
- Febrile Neutropenia	- Febrile Neutropenia		9	
 Opportunistic Infection 				
- Any		76	54	
- Cytomegalovirus		45	27	
- Herpes Simplex		38	11	
- Pneumocystis carinii		14	21	
- M. avium intracellu	lare	24	4	
- Candidiasis, esophage	eal	7	9	
- Cryptosporidiosis		7	7	
- Cryptococcal meningi	tis	3	2	
- Leukoencephalopathy		-	2	



The following discussion refers to the overall safety database of 812 patients

with solid tumors treated with single-agent paclitaxel in clinical studies.

with solid tailors treated with greater severity or frequency in previously untreated patients with ovarian carcinoma or NSCLC who received paclitaxe in combination with cisplatin or in patients with breast cancer who received additional sectors and the sector of t

paclitaxel after doxorubicin/cyclophosphamide in the adjuvant setting and that occurred with a difference that was clinically significant in these popula-

The frequency and severity of important adverse events for the Phase 3

vovarian carcinoma, breast carcinoma, NSCLC, and the Phase 2 Kaposi's sarcoma carcinoma studies are presented above in tabular form by treat-ment arm. In addition, rare events have been reported from postmarketing

experience or from other clinical studies. The frequency and severity of

adverse events have been generally similar for patients receiving paclitaxe

or the treatment of ovarian, breast, or lung carcinoma or Kaposi's sarcoma for the treatment of ovarian, breast, or lung carcinoma or Raposi's sarcoma but patients with AIDS-related Kaposi's sarcoma may have more frequent and severe hematologic toxicity, infections (including opportunistic infec-tions, see TABLE 16), and febrile neutropenia. These patients require a lower dose intensity and supportive care (see CLINICAL STUDIES, AIDS-Related Kaposi's Sarcoma). Toxicities that were observed only in or were noted to

nd that occurred with a difference that was clinically significant in this po

higher incidence in KS patients as compared to patients with solid tumors.

Bone marrow suppression was the major dose-limiting toxicity of paclitaxe

Neutropenia, the most important hematologic toxicity, was dose and schedule dependent and was generally rapidly reversible. Among patients treated in the Phase 3 second line ovarian study with a 3- hour infusion, portability and a super schedule of the second schedule and the second schedul

neutrophil counts declined below 500 cells/mm³ in 14% of the patients

(p=0.05). In the same study, severe neutropenia (<500 cells/mm³) was

process, in the 24-hour than with the 3-hour infusion; infusion dura-tion had a greater impact on myelosuppression than dose. Neutropenia did not appear to increase with cumulative exposure and did not appear

to be more frequent nor more severe for patients previously treated with

In the study where paclitaxel was administered to patients with ovarian

arcinoma at a dose of 135 mg/m²/24 hours in combination with orisplatin ersus the control arm of cyclophosphamide plus cisplatin, the incidences of

grade IV neutropenia and of febrile neutropenia were significantly greater ir

the paclitaxel plus cisplatin arm than in the control arm. Grade IV neutropenia

hosphamide plus cisplatin arm and febrile neutropenia occurred in 15%

occurred in 81% on the paclitaxel plus cisplatin arm versus 58% on the cyclo

and 4% respectively. On the pacificate/cisplatin arm, there were 35/1,074 (3%) courses with fever in which Grade IV neutropenia was reported at some time during the course. When pacificate/ followed by cisplatin was administered

to patients with advanced NSCLC in the ECOG study, the incidences of

Grade IV neutropenia were 74% (paclitaxel 135 mg/m²/24 hours followed by cisplatin) and 65% (paclitaxel 250 mg/m²/24 hours followed by cisplatin and

Fever was frequent (12% of all treatment courses). Infectious episodes

occurred in 30% of all patients and 9% of all courses; these episodes were fatal in 1% of all patients, and included sepsis, pneumonia and

treated with a dose of 135 mg/m² compared to 27% at a dose of 175 mg/n

irred with greater severity in the population with Kaposi's sarcoma

Il patients received premedication. Severe events are defined as at least Grade III toxicity.

tions are also described.

Hematologic

radiation therapy.

Adverse Event Experiences by Body System

TABLE 16. FREQUENCY^a OF IMPORTANT ADVERSE EVENTS IN THE AIDS -RELATED KAPOSI'S SARCOMA STUDIES (Cont'd.)

Chills, shock, and back pain in association with hypersensitivity reactions have been reported Cardiovascular

Hypotension, during the first 3 hours of infusion, occurred in 12% of all atients and 3% of all courses administered. Bradycardia, during the first bours of infusion, occurred in 3% of all patients and 1% of all courses. In the hase 3 second-line ovarian study, neither dose nor schedule had an effect

ncrease in cardiovascular events is possibly due to an increase in cardio ascular risk factors in patients with lung cancer.

noted in 23% of all patients. Among patients with a normal ECG prior to study entry, 14% of all patients developed an abnormal tracing while on study. The most frequently reported ECG modifications were non-specific repoarization abnormalities, sinus bradycardia, sinus tachycardia, and prema-ure beats. Among patients with normal ECGs at baseline, prior therapy ion or vertricular failure, has been reported typically in patients who have received other chemotherapy, notably anthracyclines (see **PRECAUTIONS**,

Drug Interactions).

Respiratory Interstitial pneumonia, lung fibrosis, and pulmonary embolism have been

Neurologic

The assessment of neurologic toxicity was conducted differently among TABLES 10 to 16). Moreover, the frequency and severity of neurologic manifestations were influenced by prior and/or concomitant therapy with neuropaint essential. neurotoxic agents.

In general, the frequency and severity of neurologic manifestations were dose-dependent in patients receiving single-agent paclitaxel. Periphpaclitaxel discontinuation in 1% of all patients. Sensory symptoms have

eral neuropathy was observed in 60% of all patients (3% severe) and in 52% (2% severe) of the patients without pre-existing neuropathy. The frequency of peripheral neuropathy increased with cumulative dose. Paresthesia commonly occurs in the form of hyperesthesia. Neurologic symptoms were observed in 27% of the patients after the first course of treatment and in 4 to 51% from course 2 to 10. Peripheral neuropathy was the cause of usually improved or resolved within several months of paclitaxel discon-tinuation. Pre-existing neuropathies resulting from prior therapies are not a contraindication for paclitaxel therapy. In the Intergroup first-line ovarian carcinoma study (see TABLE 11), neurotoxicity included reports of neuromotor and neurosensory events. The

regimen with paclitaxel 175 mg/m² given by 3-hour infusion plus cisplatin 5 mg/m² resulted in greater incidence and severity of neurotoxicity than he regime containing cyclophosphamide and cisplatin, 87% (21% severe) rersus 52% (2% severe), respectively. The duration of grade III or IV neuro-oxicity cannot be determined with precision for the Intergroup study since he resolution dates of adverse events were not collected in the case report forms for this trial and complete follow-up documentation was available

only in a minority of these patients. In the GOG first-line ovarian carcinom study, neurotoxicity was reported as peripheral neuropathy. The regimen with paclitaxel 135 mg/m² given by 24-hour infusion plus cisplatin 75 mg/m² resulted in an incidence of neurotoxicity that was similar to the regimen

containing cyclophosphamide plus cisplatin, 25% (3% severe) versus 20% (0% severe), respectively. Cross-study comparison of neurotoxicity in Loss (or corsonation of the latter of the l In patients with NSCLC, administration of paclitaxel followed by cisplatin resulted in a greater incidence of severe neurotoxicity compared to the

pacificate. Severe neurosensory symptoms were noted in 13% of NSCLC patients receiving paclitaxel 135 mg/m² by 24-hour infusion followed by cisplatin 75 mg/m² and 8% of NSCLC patients receiving cisplatin/etoposide (see **TABLE 15**).

Other than peripheral neuropathy, serious neurologic events following paclitaxel administration have been rare (<1%) and have included grand mal seizures. svncope, ataxia, and neuroencephalopathy.

Autonomic neuropathy resulting in paralytic ileus has been reported. Optic reported, particularly in patients who have received higher doses than those

However, reports in the literature of abnormal visual evoked potentials in patients have suggested persistent optic nerve damage. Postmarketing ports of ototoxicity (hearing loss and tinnitus) have also been receive Convulsions, dizziness, and headache have been reported.

Arthralgia/Myalgia

recommended. These effects generally have been reversible.

Atrial fibrillation and supraventricular tachycardia have been reported. Radiation pneumonitis has been reported in patients receiving concurrent radiotherapy. Pleural effusion and respiratory failure have been reported.

with anthracyclines did not influence the frequency of ECG abnormalities. Cases of myocardial infarction have been reported. Congestive heart failure cluding cardiac dysfunction and reduction of left ventricular ejection frac

Electrocardiogram (ECG) abnormalities were common among patients at baseline. ECG abnormalities on study did not usually result in symptoms, were not dose-limiting, and required no intervention. ECG abnormalities were conservent and the statement of the stat

175 mg/m² over 24 hours had progressive hypotension and died. The arrhythmias included asymptomatic ventricular tachycardia, bigeminy and complete AV block requiring pacemaker placement. Among patients with NSCLC treated with paclitaxel in combination with cisplatin in the Phase 3 study, significant cardiovascular events occurred in 12 to 13%. This apparent

on the frequency of hypotension and bradycardia. These vital sign changes most often caused no symptoms and required neither specific therapy nor treatment discontinuation. The frequency of hypotension and bradycardia were not influenced by prior anthracycline therapy. Significant cardiovascular events possibly related to single-agent paclitaxel occurred in approximately 1% of all patients. These events ncluded syncope, rhythm abnormalities, hypertension, and venous

osis. One of the patients with syncope treated with paclitaxel a

4. Initiate concomitant hematopoietic growth factor (G-CSF) as clinically

For the therapy of patients with solid tumors (ovary, breast and NSCLC) Sources of pacifixel should not be repeated until the neutrophil count is at east 1,500 cells/mm³ and the platelet count is at least 100,000 cells/mm³. Paclitaxel should not be given to patients with AIDS-related Kaposi's sarcoma

f the baseline or subsequent neutrophil count is less than 1,000 cells/mn Patients who experience severe neutropenia (neutrophil <500 cells/mm

or a week or longer) or severe peripheral neuropathy during paclitaxel herapy should have dosage reduced by 20% for subsequent courses of aclitaxel. The incidence of neurotoxicity and the severity of neutropenia ncrease with dose. Preparation and Administration Precautions:

Multiple puncturing at same site, rapid puncturing, puncturing with blun

e membranes should be flushed thoroughly with water. Upon inhalation

spnea, chest pain, burning eyes, sore throat, and nausea have been

 American Society of Health-System Pharmacists. ASHP guidelines on handling hazardous drugs. Am J Health-Syst Pharm. 2006;63:1172-1193. Paclitaxel is a cytotoxic anticancer drug and, as with other potentially toxic Sompounds, caution should be exercised in handling pacifiaxel. Adequate sompounds, caution should be exercised in handling pacifiaxel. Adequate puncture technique should be used to reduce the probability of coring, injection needles or cannulas larger than 21G in diameter tends to promote coring. Stoppers should be punctured slowly in the center of vial stopper. 4. Polovich M, White JM, Kelleher LO, eds. 2005. Chemotherapy and

biotherapy guidelines and recommendations for practice. 2nd ed. Pittsburgh, PA: Oncology Nursing Society. *DaunoXome[®] is a registered trademark of Gilead Sciences, Inc. spiking devices and puncturing near the edge of the stopper increases the probability of coring. The use of gloves is recommended. If paclitaxel solution contacts the skin, wash the skin immediately and thoroughly with soap and water. Following topical exposure, events have included tingling, burning and redness. If paclitaxel contacts mucous membranes,

occupational exposure to hazardous drugs. OSHA, 1999 http://www.osha.gov/dts/osta/otm/otm_vi/otm_vi_2.html.

DOXIL[®] is a registered trademark of ALZA Corporation.

Handling and Disposal

REFERENCES

IVEX-2® is a registered trademark of the Millipore Corporation. Chemo Dispensing Pin™ is a trademark of B. Braun Medical Incorporated

See DOSAGE AND ADMINISTRATION, Preparation and Administration

NIOSH Alert: Preventing occupational exposures to antineoplastic and other hazardous drugs in healthcare settings. 2004. U.S. Department of Health and Human Services, Public Health Service, Centers for Disease

Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2004-165.

2. OSHA Technical Manual, TED 1-0.15A, Section VI: Chapter 2. Controlling

Patients with hepatic impairment may be at increased risk of toxicity, particularly grade III-IV myelosuppression (see CLINICAL PHARMACOLOGY and PRECAUTIONS, Hepatic). Recommendations for dosage adjustment for the first course of therapy are shown in TABLE 17 for both 3- and 24-hour

fusions. Further dose reduction in subs Jual tolerance. Patients should be monitored closely for the devel opment of profound myelosuppression TABLE 17. RECOMMENDATIONS FOR DOSING IN PATIENTS WITH

HEPATIC IMPAIRMENT BASED ON CLINICAL TRIAL DATA⁸

Degree of Hepatic Impairment			Recommended Paclitaxel Dose ^c	
ransaminase Li	evels	Bilirubin Levels ^b	Paciitaxei Dose"	
		24-Hour Infusion		
x ULN	and	≤1.5 mg/dL	135 mg/m ²	
10 x ULN	and	≤1.5 mg/dL	100 mg/m ²	
) x ULN	and	1.6 to 7.5 mg/dL	50 mg/m ²	
) x ULN	or	> 7.5 mg/dL	Not recommended	
		3-Hour Infusion		
) x ULN	and	≤1.25 x ULN	175 mg/m ²	
) x ULN	and	1.26 to 2.0 x ULN	135 mg/m ²	
) x ULN	and	2.01 to 5.0 x ULN	90 mg/m ²	
) x ULN	or	> 5.0 x ULN	Not recommended	

Inese recommendations are based on dosages tor patients without hepatic impairment of 135 mg/m over 24 hours or 175 mg/m² over 3 hours; data are not available to make dose adjustmen recommendations for other regimens (eg. for AIDS-related Kaposi's sarcoma). Differences in criteria for billrubin levels between the 3- and 24-hour influsion are due to difference in clinical trid edvin. ations are for the first course of therapy; further dose reduction in subseque

Preparation and Administration Precautions

Procedures for proper handling and disposal of anticancer drugs should be Foceauties for proper handling and disposal of anticarcer drugs should be considered. Several guidelines on this subject have been published¹⁴. To minimize the risk of dermal exposure, always wear impervious gloves when handling vials containing pacitiaxel injection. If pacitaxel solution contacts the skin, wash the skin immediately and thoroughly with soap and water. Following topical exposure, events have included tingling, burning, and redness. If paclitaxel contacts mucous membranes, the membranes should be flushed thoroughly with water. Upon inhalation, dyspnea, chest pair ourning eyes, sore throat, and nausea have been reported.

Given the possibility of extravasation, it is advisable to closely monitor the infusion site for possible infiltration during drug administration (see **PRECAUTIONS, Injection Site Reaction**).

Prenaration for Intravenous Administration

Paclitaxel must be diluted prior to infusion. Paclitaxel should be diluted n 0.9% Sodium Chloride Injection, USP; 5% Dextrose Injection, USP; 5% Dextrose and 0.9% Sodium Chloride Injection, USP or 5% Dextrose in Ringer's Injection to a final concentration of 0.3 to 1.2 mg/mL. The solution tions are physically and chemically stable for up to 27 hours at ambien temperature (approximately 25°C) and room lighting conditions. Parentera drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit

Upon preparation, solutions may show haziness, which is attributed to the formulation vehicle. No significant losses in potency have been noted following simulated delivery of the solution through I.V. tubing containing an in-line (0.22 micron) filter. Data collected for the presence of the extractable plasticizer DEHF

[di-(2-ethylhexyl)phthalate] show that levels increase with time and concen-tration when dilutions are prepared in PVC containers. Consequently, the use of plasticized PVC containers and administration sets is not recommended Paclitaxel solutions should be prepared and stored in glass, polypropylene or polyolefin containers. Non-PVC containing administration sets, such as ose which are polyethylene-lined, should be used.

Paclitaxel should be administered through an in-line filter with a microporous mbrane not greater than 0.22 microns. Use of filter devices such as IVEX-2® filters which incorporate short inlet and outlet PVC-coated tubin as not resulted in significant leaching of DEHP.

The Chemo Dispensing Pin[™] device or similar devices with spikes should not be used with vials of paclitaxel since they can cause the stopper to collapse resulting in loss of sterile integrity of the paclitaxel solution

Unopened vials of paclitaxel are stable until the date indicated on the package when stored between 20° to 25°C (68° to 77°F), in the original package. Neither freezing nor refrigeration adversely affects the stability of the product. Upon refrigeration, components in the paclitaxel vial may recipitate, but will redissolve upon reaching room temperature with little no agitation. There is no impact on product quality under these circum stances. If the solution remains cloudy or if an insoluble precipitate is noted, the vial should be discarded. Solutions for infusion prepared as recommended are stable at ambient temperature (approximately 25°C) and ighting conditions for up to 27 hours.

HOW SUPPLIED

Product Code	Unit of Sale	Strength
760305	NDC 63323-763-05 Multiple dose vial, packaged individually	30 mg per 5 mL (6 mg per mL)
760316	NDC 63323-763-16 Multiple dose vial, packaged individually	100 mg per 16.7 ml (6 mg per mL)
760350	NDC 63323-763-50 Multiple dose vial, packaged individually	300 mg per 50 mL (6 mg per mL)

The container closure is not made with natural rubber latex.

Store the vials in original cartons between 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Retain in the original package to protect from light.

Lake Zurich, IL 60047 For Product Inquiry:

1-800-551-7176 or www.fresenius-kabi.com/us 451224E/Revised: November 2018