

(approximately 2% of the daily maximum recommended human dose on a mg/m² basis) caused embryo-fetal toxicities, as indicated by intramembranous ossification retardation (up to 5-fold), reduced numbers of litters and live fetuses, reduction in fetal body weight, and increase in fetal anomalies. Fetal anomalies included soft tissue and skeletal malformations, such as eye, lip, cleft, and tail, microphthalmia, and dilation of brain ventricles.

8.2 Lactation
Risk Summary
There are no data on the presence of pacitaxel in human milk, or its effect on the breastfed child or on milk production. In animal studies, pacitaxel and/or its metabolites were excreted into the milk of lactating rats (see Data). Because of the potential for serious adverse reactions in a breastfed child from pacitaxel protein-bound particles for injectable suspension (albumin-bound), advise lactating women not to breastfeed during treatment with pacitaxel protein-bound particles for injectable suspension (albumin-bound) and for two weeks after the last dose.

Animal Data
Following intravenous administration of radiolabeled 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.

8.3 Females and Males of Reproductive Potential
Based on animal toxicology and mechanism of action, pacitaxel protein-bound particles for injectable suspension (albumin-bound) can cause fetal harm when administered to a pregnant woman (see Use in Specific Populations (8.1)).

Pregnancy Testing
Verify the pregnancy status of females of reproductive potential prior to starting treatment with pacitaxel protein-bound particles for injectable suspension (albumin-bound).

Contraception
Females
Advise females of reproductive potential to use effective contraception and avoid becoming pregnant during treatment with pacitaxel protein-bound particles for injectable suspension (albumin-bound) and for at least six months after the last dose of pacitaxel protein-bound particles for injectable suspension (albumin-bound).

Males
Based on findings in genetic toxicology and animal reproductive studies, advise males with female partners of reproductive potential to use effective contraception and avoid fathering a child during treatment with pacitaxel protein-bound particles for injectable suspension (albumin-bound) and for at least three months after the last dose of pacitaxel protein-bound particles for injectable suspension (albumin-bound) (see Use in Specific Populations (8.1) and Nonclinical Toxicology (13.1)).

Fertility
Females and Males
Based on findings in animals, pacitaxel protein-bound particles for injectable suspension (albumin-bound) may impair fertility in females and males of reproductive potential (see Nonclinical Toxicology (13.1)).

8.4 Pediatric Use
Safety and effectiveness in pediatric patients have not been established. Pharmacokinetics, safety, and antitumor activity of pacitaxel protein-bound particles for injectable suspension (albumin-bound) were assessed in an open-label, dose escalation, dose expansion study (NCT01962103) in 96 pediatric patients aged 1.4 to < 17 years with recurrent or refractory pediatric solid tumors. The maximum tolerated dose (MTD) normalized for body surface area (BSA) was 175 mg/m² in patients compared to adults. No new safety signals were observed in pediatric patients across these studies.

Pediatric protein-bound exposures normalized by dose were higher in 96 pediatric patients (aged 1.4 to < 17 years) as compared to those in adults.

8.5 Geriatric Use
Of the 229 patients in the randomized study who received pacitaxel protein-bound particles for injectable suspension (albumin-bound) for the treatment of metastatic breast cancer, 13% were at least 65 years of age and < 2% were 75 years of age. This study of pacitaxel protein-bound particles for injectable suspension (albumin-bound) did not include a sufficient number of patients with metastatic breast cancer who were 65 years of age or older to determine whether they respond differently from younger patients. A subsequent pooled analysis was conducted in 961 patients receiving pacitaxel protein-bound particles for injectable suspension (albumin-bound) monotherapy for metastatic breast cancer, of which 15% were 65 years of age or older and 2% were 75 years of age or older. A higher incidence of epistaxis, diarrhea, dehydration, fatigue, and peripheral edema was found in patients 65 years of age or older.

Of the 514 patients in the randomized study who received pacitaxel protein-bound particles for injectable suspension (albumin-bound) and carboplatin for the first-line treatment of non-small cell lung cancer, 31% were 65 years of age or older and 3.5% were 75 years of age or older. Myelosuppression, peripheral neuropathy, and arthralgia were more frequent in patients 65 years of age or older compared to patients younger than 65 years old. No overall difference in effectiveness, as measured by response rates, was observed between patients 65 years of age or older compared to patients younger than 65 years old.

Of the 431 patients in the randomized study who received pacitaxel protein-bound particles for injectable suspension (albumin-bound) and gemtacin for the first-line treatment of pancreatic adenocarcinoma, 41% were 65 years of age or older and 10% were 75 years of age or older. No overall differences in effectiveness were observed between patients who were 65 years of age or older and younger patients. Diarrhea, decreased appetite, dehydration, and epistaxis were more frequent in patients 65 years of age or older compared to patients younger than 65 years old. Clinical studies of pacitaxel protein-bound particles for injectable suspension (albumin-bound) did not include a sufficient number of patients with pancreatic cancer who were 75 years of age or older to determine whether they respond differently from younger patients.

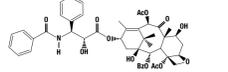
8.6 Renal Impairment
No adjustment of the starting pacitaxel protein-bound particles for injectable suspension (albumin-bound) dose is required for patients with mild to moderate renal impairment (estimated creatinine clearance 30 to < 50 mL/min) (see Clinical Pharmacology (12.3)). There are insufficient data to permit dosage recommendations in patients with severe renal impairment or end stage renal disease (estimated creatinine clearance < 30 mL/min).

8.7 Hepatic Impairment
No adjustment of the starting pacitaxel protein-bound particles for injectable suspension (albumin-bound) dose is required for patients with mild hepatic impairment (total bilirubin > ULN and ≤ 1.5 × ULN and aspartate aminotransferase [AST] ≤ 10 × ULN). Reduce pacitaxel protein-bound particles for injectable suspension (albumin-bound) starting dose in patients with moderate to severe hepatic impairment (see Dosage and Administration (2.5) and Clinical Pharmacology (12.3)). Pacitaxel protein-bound particles for injectable suspension (albumin-bound) is not recommended for use in patients with total bilirubin > 5 × ULN or AST > 10 × ULN (see Dosage and Administration (2.5), Warnings and Precautions (5.6), and Clinical Pharmacology (12.3)). Pacitaxel protein-bound particles for injectable suspension (albumin-bound) is not recommended for use in patients with metastatic adenocarcinoma of the pancreas who have moderate to severe hepatic impairment (see Dosage and Administration (2.5)).

10 OVERDOSE
There is no known antidote for pacitaxel protein-bound particles for injectable suspension (albumin-bound) overdose. The primary anticipated complications of overdose would consist of bone marrow suppression, sensory neurotoxicity, and mucositis.

DESCRIPTION

Pacitaxel protein-bound particles for injectable suspension (albumin-bound) is pacitaxel formulated as an albumin-bound nanoparticulate with a mean particle size of approximately 130 nanometers. Pacitaxel exists in the particles in a non-cyclized, amorphous state. Pacitaxel is a microtubule inhibitor. The chemical name for pacitaxel is 5β,20-Epoxy-1,2α,4,7β,10β,13α-heptahydroxy-11-en-6-one-4,10-diolactone-2-benzamide-13-ester with (2*S*)-N-benzyloxy-2-phenylserine. The empirical formula is C₄₇H₆₇NO₁₀ and the molecular weight is 853.91. Pacitaxel has the following structural formula:



Pacitaxel is a white to off-white crystalline powder. It is highly lipophilic, insoluble in water, and melts at approximately 210°C to 217°C.

Pacitaxel protein-bound particles for injectable suspension (albumin-bound) is supplied as a white to yellow, lyophilized powder for reconstitution with 20 mL of 0.9% Sodium Chloride Injection, USP prior to intravenous infusion. Each single-dose vial contains 100 mg of pacitaxel (bound to human albumin) and approximately 800 mg of human albumin (containing sodium caprylate and sodium acetyltryptophanate). Each milliliter (mL) of reconstituted suspension contains 5 mg pacitaxel formulated as albumin-bound particles. Pacitaxel protein-bound particles for injectable suspension (albumin-bound) is free of solvents.

CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Pacitaxel protein-bound particles for injectable suspension (albumin-bound) is a microtubule inhibitor that promotes the assembly of microtubules from tubulin dimers and stabilizes microtubules by preventing depolymerization. This activity results in the inhibition of the normal dynamic reorganization of the microtubule network that is essential for vital intrastep and mitotic cellular functions. Pacitaxel induces abnormal arrays or "bundles" of microtubules throughout the cell cycle and multiplies arrays of microtubules due mitosis.

12.3 Pharmacokinetics

The pharmacokinetics of total pacitaxel following 30- and 175-mg/m² infusions of pacitaxel protein-bound particles for injectable suspension (albumin-bound) at dose levels of 0 to 375 mg/m² (0.31 to 1.15 times the maximum approved recommended dose) were determined in clinical studies. Dose levels of mg/m² refer to mg of pacitaxel in pacitaxel protein-bound particles for injectable suspension (albumin-bound). Following intravenous administration of pacitaxel protein-bound particles for injectable suspension (albumin-bound) to patients with solid tumors, pacitaxel plasma concentrations declined in a biphasic manner, the initial rapid decline representing distribution to the peripheral compartment and the slower second phase representing drug elimination.

Following pacitaxel protein-bound particles for injectable suspension (albumin-bound) infusion, pacitaxel exhibited linear drug (albumin-bound) AUC across clinical doses ranging from 60 to 300 mg/m² (0.31 to 1.15 times the maximum approved recommended dose). The pharmacokinetics of pacitaxel in pacitaxel protein-bound particles for injectable suspension (albumin-bound) were independent of the duration of intravenous administration.

The pharmacokinetic data of 260 mg/m² pacitaxel protein-bound particles for injectable suspension (albumin-bound) administered over a 30-minute infusion was compared to the pharmacokinetics of 175 mg/m² pacitaxel injection over a 3-hour infusion. Clearance was larger (43%) and the volume of distribution was higher (63%) for pacitaxel protein-bound particles for injectable suspension (albumin-bound) than for pacitaxel injection. There were no differences in terminal half-lives.

Distribution
Following pacitaxel protein-bound particles for injectable suspension (albumin-bound) administration to patients with solid tumors, pacitaxel is evenly distributed into blood cells and plasma and is highly bound to plasma proteins (94%). The total volume of distribution is approximately 1741 L, the large volume of distribution indicates extensive extravascular distribution and/or tissue binding of pacitaxel.

In a within-patient comparison study, the fraction of unbound pacitaxel in plasma was significantly higher with pacitaxel protein-bound particles for injectable suspension (albumin-bound) (6.2%) than with solvent-based pacitaxel (2.3%). This contributes to significantly higher exposure to unbound pacitaxel with pacitaxel protein-bound particles for injectable suspension (albumin-bound) compared with solvent-based pacitaxel when the total dose is comparable. *In vitro* studies of binding to human serum proteins, using pacitaxel concentrations ranging from 10 to 50 μg/mL, indicated that the presence of cisplatin, paclitaxel, doxorubicin, etoposide, or diphenhydramine did not affect protein binding of pacitaxel.

Elimination
At the clinical dose range of 80 to 300 mg/m² (0.31 to 1.15 times the maximum approved recommended dose), the mean total clearance of pacitaxel ranges from 13 to 30 L/h/m² and the mean terminal half-life ranges from 13 to 27 hours.

Metabolism
In *in vitro* studies with human liver microsomes and tissue slices showed that pacitaxel in pacitaxel protein-bound particles for injectable suspension (albumin-bound) was metabolized primarily to 6-hydroxypacitaxel by CYP2C8, and to two minor metabolites, 3-p-hydroxypacitaxel and 6-, 3-p-dihydroxypacitaxel, by CYP3A4. *In vitro*, the metabolism of pacitaxel to 6-hydroxypacitaxel was inhibited by a number of agents (ketocazole, verapamil, diazepam, quinidine, deamethasone, cyclosporin, teniposide, etoposide, and vincristine), but the concentrations used exceeded those found *in vivo* following normal therapeutic doses. Testosterone, 17β-estradiol, retinoic acid, and quercetin, a specific inhibitor of CYP2C8, also inhibited the formation of 6-hydroxypacitaxel *in vitro*. The pharmacokinetics of pacitaxel 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 Drug Interactions (7)).

Excretion
After a 30-minute infusion of 260 mg/m² doses of pacitaxel protein-bound particles for injectable suspension (albumin-bound), the mean values for cumulative urinary recovery of unchanged drug (4%) indicated extensive non-renal clearance. Less than 1% of the total administered dose was excreted in urine as the metabolites 6-hydroxypacitaxel and 3-p-hydroxypacitaxel. Fecal excretion was approximately 20% of the total dose administered.

Specific Populations
There are clinically meaningful differences in the pharmacokinetics of pacitaxel in pacitaxel protein-bound particles for injectable suspension (albumin-bound) were observed based on body weight (40 to 143 kg), body surface area (1.3 to 2.4 m²), sex, race (Asian vs. White), age (24 to 85 years), type of solid tumors, mild to moderate renal impairment (creatinine clearance 30 to < 50 mL/min), and mild hepatic impairment (total bilirubin > 1 to ≤ 1.5 × ULN and AST 5 to 10 × ULN).

Patients with moderate to total bilirubin > 1.5 to 3 × ULN and AST 5 to 10 × ULN or severe total bilirubin > 3 to 5 × ULN hepatic impairment had a 22% to 28% decrease in the maximum elimination rate of pacitaxel and approximately 20% increase in mean pacitaxel AUC compared with patients with normal hepatic function (total bilirubin ≤ ULN and AST ≤ ULN) (see Dosage and Administration (2.5) and Use in Specific Populations (8.7)).

The effect of severe renal impairment or end stage renal disease (creatinine clearance < 30 mL/min) on the pharmacokinetics of pacitaxel in pacitaxel protein-bound particles for injectable suspension (albumin-bound) is unknown.

Drug Interaction Studies
Carboplatin: Administration of carboplatin immediately after the completion of the pacitaxel protein-bound particles for injectable suspension (albumin-bound) infusion to patients with NSCLC did not cause clinically meaningful changes in pacitaxel exposure. The observed mean AUC₀₋₂₄ of free carboplatin was approximately 23% higher than the targeted value (6 nmol/mg/mL), but its mean half-life and clearance were consistent with those reported in the absence of pacitaxel.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
The carcinogenic potential of pacitaxel protein-bound particles for injectable suspension (albumin-bound) has not been studied. Pacitaxel was clastogenic *in vitro* (chromosome aberrations in human lymphocytes) and *in vivo* (micronucleus test in mice). Pacitaxel was mutagenic in the Ames test for the CHO/HGPRT gene mutation assay.

Administration of pacitaxel formulated as albumin-bound particles to male rats at 42 mg/m² on a weekly basis (approximately 16% of the daily maximum recommended human exposure on a body surface area basis) for 11 weeks prior to mating with untreated female rats resulted in significantly reduced fertility accompanied by decreased pregnancy rates and increased loss of embryos in mated females. A dose of 42 mg/m² also reduced male reproductive organ weights, mating performance, and sperm production. Testicular atrophy/degeneration was observed in single-dose toxicology studies in animals administered pacitaxel formulated as albumin-bound particles at doses lower than the recommended human dose; doses were 34 mg/m² in rodents and 175 mg/m² in dogs. Similar testicular degeneration was seen in monkeys administered three weekly doses of 108 mg/m² pacitaxel formulated as albumin-bound particles.

Administration of pacitaxel prior to and during mating caused impairment of fertility in male and female rats. Pacitaxel produced reproductive and/or reproductive indices, and increased embryo-fetal toxicity.

14 CLINICAL STUDIES

14.1 Metastatic Breast Cancer

Data from 108 patients accrued in two single arm open-label studies and from 460 patients enrolled in a randomized comparative study were available to support the use of pacitaxel protein-bound particles for injectable suspension (albumin-bound) in metastatic breast cancer.

Single Arm Open Label Studies
In one study, pacitaxel protein-bound particles for injectable suspension (albumin-bound) was administered as a 30-minute infusion at a dose of 175 mg/m² to 43 patients with metastatic breast cancer. The second trial utilized a dose of 300 mg/m² as a 30-minute infusion in 63 patients with metastatic breast cancer. Cycles were administered at 3-week intervals. Objective responses were observed in both studies.

Randomized Comparative Study
This multicenter trial was conducted in 480 patients with metastatic breast cancer. Patients were randomized to receive pacitaxel protein-bound particles for injectable suspension (albumin-bound) at a dose of 260 mg/m² given as a 30-minute infusion or pacitaxel injection at 175 mg/m² as an intravenous infusion over 30-40 minutes followed by gemtacin 1000 mg/m² as an intravenous infusion over 30-40 minutes on Days 1, 8, and 15 of each 28-day cycle. Patients randomized to gemtacin received 1000 mg/m² as an intravenous infusion over 30-40 minutes weekly for 7 weeks followed by a 1-week rest period in Cycle 1 then as 1000 mg/m² on Days 1, 8, and 15 of each subsequent 28-day cycle. Patients in both arms received treatment until disease progression or unacceptable toxicity. The major efficacy outcome measure was overall survival (OS). Additional outcome measures were progression-free survival (PFS) and overall response rate (ORR), both assessed by independent, central, blinded radiological review using RECIST (version 1.0).

In the intent-to-treat (all randomized) population, the median age was 63 years (range 27-88 years) with 42% ≤ 65 years of age; 50% were men; 85% were White and KPS was 90-100 in 60%. Disease characteristics included 46% of patients with 3 or more metastatic sites; 94% of patients had liver metastases; and the location of the primary pancreatic lesion was in the head of pancreas (43%), body (31%), or tail (25%).

Results for overall survival, progression-free survival, and overall response rate are shown in Table 13.

Table 11: Efficacy Results from Randomized Metastatic Breast Cancer Trial

	Pacitaxel protein-bound particles for injectable suspension (albumin-bound) 260 mg/m ²	Pacitaxel injection 175 mg/m ²	
Reconstituted Target Lesion Response Rate (primary endpoint)^a			
All randomized patients	Response Rate (95% CI) p-value ^b	3023 (21.5%) 11.1% (8.7%, 13.5%) 0.003	2822 (11.1%) 8.4% (6.9%, 10.0%)
Patients who had tumor combination chemotherapy or relapsed within 6 months of adjuvant chemotherapy ^c	Response Rate (95% CI)	20129 (15.5%) 9.26% - 21.75%	12143 (8.4%) 3.65% - 12.94%

^aReconstituted Target Lesion Response Rate (RTLR) was the prospectively defined, protocol specific endpoint. Based on independent RECIST assessment of tumor response. ^bTwo-sided, stratified Cox proportional hazard ratio. ^cPatients who had tumor combination chemotherapy or relapsed within 6 months of adjuvant chemotherapy. The reconstituted RTLR was lower than the investigator reported response rates, which were based on cycles of therapy.

^dFor Cochran-Mantel-Haenszel test stratified by sex, p = 0.003. ^eFor therapy.

14.2 Non-Small Cell Lung Cancer

A multicenter, randomized, open-label study was conducted in 1052 chemotherapy naïve patients with Stage III/IV non-small cell lung cancer to compare pacitaxel protein-bound particles for injectable suspension (albumin-bound) in combination with carboplatin to pacitaxel injection in combination with carboplatin as first-line treatment in patients with advanced non-small cell lung cancer. Pacitaxel protein-bound particles for injectable suspension (albumin-bound) was administered as an intravenous infusion over 30 minutes at a dose of 100 mg/m² on Days 1, 8, and 15 of each 21-day cycle. Pacitaxel injection was administered as an intravenous infusion over 3 hours at a dose of 200 mg/m² following premedication. In both treatment arms carboplatin at a dose of AUC = 6 mg·min/mL was administered intravenously on Day 1 of each 21-day cycle after completion of pacitaxel protein-bound particles for injectable suspension (albumin-bound)/pacitaxel injection. Treatment was administered until disease progression or development of an unacceptable toxicity. The major efficacy outcome measure was overall response rate as determined by a central independent review committee using RECIST guidelines (Version 1.0).

In the intent-to-treat (all randomized) population, the median age was 69 years, 73% were men; 81% were White; 49% had adenocarcinoma; 43% had squamous cell lung cancer; 76% were ECOG PS 1, and 73% were current or former smokers. Patients received a median of 6 cycles of treatment in both study arms.

Patients in the pacitaxel protein-bound particles for injectable suspension (albumin-bound)/carboplatin arm had a statistically significantly higher overall response rate compared to patients in the pacitaxel injection/carboplatin arm [33% versus 25%] see Table 12). There was no statistically significant difference in overall survival between the two study arms.

Table 12: Efficacy Results from Randomized Non-Small Cell Lung Cancer Trial (Intent-to-Treat Population)

	Pacitaxel protein-bound particles for injectable suspension (albumin-bound) 100 mg/m ² + carboplatin (N=511)	Pacitaxel injection (200 mg/m ² every 2 weeks) + carboplatin (N=531)
Overall Response Rate (ORR)		
Confirmed complete or partial response, n (%)	170 (33%)	132 (25%)
95% CI	28.6, 36.7	21.2, 28.5
P-value (Chi-Square test)	0.005	
Median DoI in months (95% CI)	6.9 (5.6, 8.0)	6.0 (5.6, 7.1)

CI = confidence interval; DoI = Duration of response.

14.3 Adenocarcinoma of the Pancreas

A multicenter, multistage, randomized, open-label study was conducted in 861 patients comparing pacitaxel protein-bound particles for injectable suspension (albumin-bound) plus gemtacin versus gemtacin monotherapy as first-line treatment of metastatic adenocarcinoma of the pancreas. Key eligibility criteria were Karnofsky Performance Status (KPS) ≥ 70, normal bilirubin level, transaminase levels ≤ 2.5 times the upper limit of normal (ULN) or 5.5 times the ULN for patients with liver metastases, no prior cytotoxic chemotherapy in the adjuvant setting or for metastatic disease, no ongoing active infection requiring systemic therapy, and no history of interstitial lung disease. Patients with rapid decline in KPS (≥ 10%) or serum albumin (≥ 20%) during the 14-day screening period prior to study randomization were ineligible.

A total of 861 patients were randomized (111) to the pacitaxel protein-bound particles for injectable suspension (albumin-bound) plus gemtacin arm (N=431) or to the gemtacin arm (N=430).

Randomization was stratified by geographic region (Australia, Western Europe, Eastern Europe, or North America), KPS (70 to 80 versus 90 to 100), and presence of liver metastasis (yes versus no). Patients randomized to pacitaxel protein-bound particles for injectable suspension (albumin-bound)/gemtacin received pacitaxel protein-bound particles for injectable suspension (albumin-bound) 125 mg/m² as an intravenous infusion over 30-40 minutes followed by gemtacin 1000 mg/m² as an intravenous infusion over 30-40 minutes on Days 1, 8, and 15 of each 28-day cycle. Patients randomized to gemtacin received 1000 mg/m² as an intravenous infusion over 30-40 minutes weekly for 7 weeks followed by a 1-week rest period in Cycle 1 then as 1000 mg/m² on Days 1, 8, and 15 of each subsequent 28-day cycle. Patients in both arms received treatment until disease progression or unacceptable toxicity. The major efficacy outcome measure was overall survival (OS). Additional outcome measures were progression-free survival (PFS) and overall response rate (ORR), both assessed by independent, central, blinded radiological review using RECIST (version 1.0).

In the intent-to-treat (all randomized) population, the median age was 63 years (range 27-88 years) with 42% ≤ 65 years of age; 50% were men; 85% were White and KPS was 90-100 in 60%. Disease characteristics included 46% of patients with 3 or more metastatic sites; 94% of patients had liver metastases; and the location of the primary pancreatic lesion was in the head of pancreas (43%), body (31%), or tail (25%).

Results for overall survival, progression-free survival, and overall response rate are shown in Table 13.

Table 13: Efficacy Results from Randomized Study in Patients with Adenocarcinoma of the Pancreas (ITT Population)

	Pacitaxel protein-bound particles for injectable suspension (albumin-bound) 125 mg/m ² and gemtacin (N = 431)	Gemtacin (N = 430)
Overall Survival		
Number of deaths, n (%)	333 (77)	359 (83)
Median Overall Survival (months)	8.5	6.7
95% CI	7.6, 9.5	6.0, 7.2
HR (95% CI) ^a	0.72 (0.62, 0.83)	
P-value ^b	<0.0001	
Progression-Free Survival^c		
Death or progression, n (%)	277 (64)	265 (62)
Median Progression-Free Survival (months)	5.5	3.7
95% CI	4.5, 5.9	3.6, 4.0
HR (95% CI) ^a	0.69 (0.58, 0.82)	
P-value ^b	<0.0001	
Overall Response Rate^d		
Confirmed complete or partial overall response, n (%)	99 (23)	31 (7)
95% CI	19.1, 27.2	5.0, 10.1
P-value ^b	<0.0001	

CI = confidence interval; HR = hazard ratio of pacitaxel protein-bound particles for injectable suspension (albumin-bound) plus gemtacin (gemtacin); ITT = intent-to-treat population.

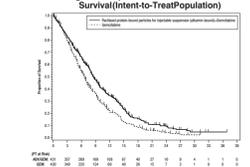
^aStratified Cox proportional hazard ratio.

^bStratified log-rank test stratified by geographic region, North America versus Western Europe, Karnofsky performance score (70 to 80 versus 90 to 100), and presence of liver metastasis (yes versus no).

^cBased on Independent Radiological Review Assessment.

^dIn exploratory analyses conducted in clinically relevant subgroups with a sufficient number of subjects, the treatment effects of overall survival were similar to that observed in the overall study population.

Figure 1: Kaplan-Meier Curve of Overall Survival (Intent-to-Treat Population)



15 REFERENCES

1. OSHA Hazardous Drugs, OSHA <http://www.osha.gov/DC/CHazardousDrugs/index.html>

16 HOW SUPPLIED/STORAGE AND HANDLING

Pacitaxel protein-bound particles for injectable suspension (albumin-bound) is a white to yellow, sterile lyophilized powder supplied as:

NDC 60505-6230-4 100 mg of pacitaxel in a single-dose vial, individually packaged in a carton.

Store the vials in original cartons at 20°C to 25°C (68°F to 77°F). Store in the original packaging to protect from light.

Pacitaxel protein-bound particles for injectable suspension (albumin-bound) is a cytotoxic drug. Follow applicable special handling and disposal procedures.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the approved patient labeling (Patient Information).

Severe Myelosuppression

• Patients must be informed of the risk of low blood cell counts and severe and life-threatening infections and instructed to contact their healthcare provider immediately for fever or evidence of infection (see Warnings and Precautions (5.1), (5.3)).

Sensory Neuroopathy

• Patients must be informed that sensory neuropathy occurs frequently with pacitaxel protein-bound particles for injectable suspension (albumin-bound) and patients should advise their healthcare providers of numbness, tingling, pain, or weakness involving the extremities (see Warnings and Precautions (5.2)).

Pneumonitis

• Instruct patients to contact their healthcare provider immediately for sudden onset of dry persistent cough, or shortness of breath (see Warnings and Precautions (5.4)).

Severe Hypertension

• Instruct patients to contact their healthcare provider for signs of an allergic reaction, which could be severe and sometimes fatal (see Warnings and Precautions (5.5)).

Common Adverse Reactions

• Explain to patients that alopecia, fatigue/asthenia, and myalgia/arthralgia occur frequently with pacitaxel protein-bound particles for injectable suspension (albumin-bound).

• Instruct patients to contact their healthcare providers for persistent vomiting, diarrhea, or signs of dehydration (see Adverse Reactions (6)).

Embryofetal Toxicity

• Pacitaxel protein-bound particles for injectable suspension (albumin-bound) injection can cause fetal harm. Advise patients to avoid becoming pregnant while receiving this drug. Females of reproductive potential should use effective contraception during treatment with pacitaxel protein-bound particles for injectable suspension (albumin-bound) and for at least six months after the last dose of pacitaxel protein-bound particles for injectable suspension (albumin-bound) (see Warnings and Precautions (5.6) and Use in Specific Populations (8.1, 8.3)).

• Advise male patients with female partners of reproductive potential to use effective contraception and avoid fathering a child during treatment with pacitaxel protein-bound particles for injectable suspension (albumin-bound) and for at least three months after the last dose of pacitaxel protein-bound particles for injectable suspension (albumin-bound) (see Use in Specific Populations (8.3)).

Lactation

• Advise patients not to breastfeed while taking pacitaxel protein-bound particles for injectable suspension (albumin-bound) and for two weeks after receiving the last dose (see Use in Specific Populations (8.2)).

Fertility

• Advise males and females of reproductive potential that pacitaxel protein-bound particles for injectable suspension (albumin-bound) may impair fertility (see Use in Specific Populations (8