Rx only

BRISTOL-MYERS SQUIBB ONCOLOGY

PARAPLATIN®
(carboplatin aqueous solution) INJECTION

WARNING

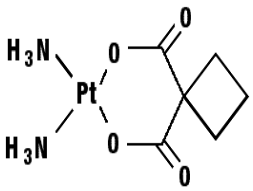
PARAPLATIN (carboplatin aqueous solution) INJECTION should be administered under the supervision of a qualified physician experienced in the use of cancer chemotherapeutic agents. Appropriate management of therapy and complications is possible only when adequate treatment facilities are readily available.

Bone marrow suppression is dose related and may be severe, resulting in infection and/or bleeding. Anemia may be cumulative and may require transfusion support. Vomiting is another frequent drug-related side effect.

Anaphylactic-like reactions to carboplatin have been reported and may occur within minutes of PARAPLATIN administration. Epinephrine, corticosteroids, and antihistamines have been employed to alleviate symptoms.

DESCRIPTION

PARAPLATIN® (carboplatin aqueous solution) INJECTION is supplied as a sterile, pyrogen-free, 10 mg/mL aqueous solution of carboplatin. Carboplatin is a platinum coordination compound. The chemical name for carboplatin is platinum, diammine [1,1-cyclobutane-dicarboxylato(2-)-0,0']-,(SP-4-2), and carboplatin has the following structural formula:



Carboplatin is a crystalline powder with the molecular formula of $C_6H_{12}N_2O_4Pt$ and a molecular weight of 371.25. It is soluble in water at a rate of approximately 14

mg/mL, and the pH of a 1% solution is 5-7. It is virtually insoluble in ethanol, acetone, and dimethylacetamide.

CLINICAL PHARMACOLOGY

Carboplatin, like cisplatin, produces predominantly interstrand DNA cross-links rather than DNA-protein cross-links. This effect is apparently cell-cycle nonspecific. The aquation of carboplatin, which is thought to produce the active species, occurs at a slower rate than in the case of cisplatin. Despite this difference, it appears that both carboplatin and cisplatin induce equal numbers of drug-DNA cross-links, causing equivalent lesions and biological effects. The differences in potencies for carboplatin and cisplatin appear to be directly related to the difference in aquation rates.

In patients with creatinine clearances of about 60 mL/min or greater, plasma levels of intact carboplatin decay in a biphasic manner after a 30-minute intravenous infusion of 300 to 500 mg/m^2 of carboplatin. The initial plasma half-life (alpha) was found to be 1.1 to 2 hours (n=6), and the postdistribution plasma half-life (beta) was found to be 2.6 to 5.9 hours (n=6). The total body clearance, apparent volume of distribution and mean residence time for carboplatin are 4.4 L/hour, 16 L and 3.5 hours, respectively. The C_{max} values and areas under the plasma concentration vs time curves from 0 to infinity (AUC inf) increase linearly with dose, although the increase was slightly more than dose proportional. Carboplatin, therefore, exhibits linear pharmacokinetics over the dosing range studied (300 - 500 mg/m^2).

Carboplatin is not bound to plasma proteins. No significant quantities of protein-free, ultrafilterable platinum-containing species other than carboplatin are present in plasma. However, platinum from carboplatin becomes irreversibly bound to plasma proteins and is slowly eliminated with a minimum half-life of 5 days.

The major route of elimination of carboplatin is renal excretion. Patients with creatinine clearances of approximately 60 mL/min or greater excrete 65% of the dose in the urine within 12 hours and 71% of the dose within 24 hours. All of the platinum in the 24-hour urine is present as carboplatin. Only 3 to 5% of the administered platinum is excreted in the urine between 24 and 96 hours. There are insufficient data to determine whether biliary excretion occurs.

In patients with creatinine clearances below 60 mL/min the total body and renal clearances of carboplatin decrease as the creatinine clearance decreases. PARAPLATIN

dosages should therefore be reduced in these patients (see **DOSAGE AND ADMINISTRATION**).

The primary determinant of PARAPLATIN clearance is glomerular filtration rate (GFR) and this parameter of renal function is often decreased in elderly patients. Dosing formulas incorporating estimates of GFR (see **DOSAGE AND ADMINISTRATION**) to provide predictable PARAPLATIN plasma AUCs should be used in elderly patients to minimize the risk of toxicity.

CLINICAL STUDIES

Use with Cyclophosphamide for Initial Treatment of Ovarian Cancer

In two prospectively randomized, controlled studies conducted by the National Cancer Institute of Canada, Clinical Trials Group (NCIC) and the Southwest Oncology Group (SWOG), 789 chemotherapy naive patients with advanced ovarian cancer were treated with carboplatin or cisplatin, both in combination with cyclophosphamide every 28 days for six courses before surgical reevaluation. The following results were obtained from both studies:

Comparative Efficacy

	Overview of Pivotal Trials	
	NCIC	**SWOG**
Number of patients randomized	447	342
Median age (years)	60	62
Dose of cisplatin	75 mg/m^2	100 mg/m^2
Dose of carboplatin	300 mg/m^2	300 mg/m^2
Dose of cyclophosphamide	600 mg/m^2	600 mg/m^2
Residual tumor <2 cm (number of patients)	39% (174/447)	14% (49/342)

Clinical Response in Measurable Disease Patients

	NCIC	SWOG
Carboplatin (number of patients)	60% (48/80)	58% (48/83)
Cisplatin (number of patients)	58% (49/85)	43% (33/76)
95% C.I. of difference (Carboplatin – Cisplatin)	(-13.9%, 18.6%)	(-2.3%, 31.1%)

Pathologic Complete Response*

	NCIC	SWOG
Carboplatin (number of patients)	11% (24/224)	10% (17/171)
Cisplatin (number of patients)	15% (33/223)	10% (17/171)
95% C.I. of difference (Carboplatin – Cisplatin)	(-10.7%, 2.5%)	(-6.9%, 6.9%)

*114 Carboplatin and 109 Cisplatin patients did not undergo second look surgery in NCIC study
90 Carboplatin and 106 Cisplatin patients did not undergo second look surgery in SWOG study

Progression-Free Survival (PFS)

	NCIC	SWOG
Median		
Carboplatin	59 weeks	49 weeks
Cisplatin	61 weeks	47 weeks
2-year PFS*		
Carboplatin	31%	21%
Cisplatin	31%	21%
95% C.I. of difference (Carboplatin-Cisplatin)	(-9.3, 8.7)	(-9.0, 9.4)

3-year PFS*		
Carboplatin	19%	8%
Cisplatin	23%	14%
95% C.I. of difference (Carboplatin-Cisplatin)	(-11.5, 4.5)	(-14.1, 0.3)
Hazard Ratio**	1.10	1.02
95% C.I. (Carboplatin – Cisplatin)	(0.89, 1.35)	(0.81, 1.29)

* Kaplan-Meier Estimates
Unrelated deaths occurring in the absence of progression were counted as events (progression) in this analysis.
** Analysis adjusted for factors found to be of prognostic significance were consistent with unadjusted analysis.

	Survival	
Median	**NCIC**	**SWOG**
Carboplatin	110 weeks	86 weeks
Cisplatin	99 weeks	79 weeks
2-year Survival*		
Carboplatin	51.9%	40.2%
Cisplatin	48.4%	39.0%
95% C.I. of difference (Carboplatin-Cisplatin)	(-6.2, 13.2)	(-9.8, 12.2)
3-year Survival*		
Carboplatin	34.6%	18.3%
Cisplatin	33.1%	24.9%
95% C.I. of difference (Carboplatin-Cisplatin)	(-7.7, 10.7)	(-15.9, 2.7)

Hazard Ratio**	0.98	1.01
95% C.I. (Carboplatin-Cisplatin)	(0.78, 1.23)	(0.78, 1.30)

* Kaplan-Meier Estimates
** Analysis adjusted for factors found to be of prognostic significance were consistent with unadjusted analysis.

Comparative Toxicity

The pattern of toxicity exerted by the carboplatin-containing regimen was significantly different from that of the cisplatin-containing combinations. Differences between the two studies may be explained by different cisplatin dosages and by different supportive care.

The carboplatin-containing regimen induced significantly more thrombocytopenia and, in one study, significantly more leukopenia and more need for transfusional support. The cisplatin-containing regimen produced significantly more anemia in one study. However, no significant differences occurred in incidences of infections and hemorrhagic episodes.

Non-hematologic toxicities (emesis, neurotoxicity, ototoxicity, renal toxicity, hypomagnesemia, and alopecia) were significantly more frequent in the cisplatin-containing arms.

ADVERSE EXPERIENCES IN PATIENTS WITH OVARIAN CANCER NCIC STUDY

		Carboplatin Arm Percent*	Cisplatin Arm Percent*	P-Values**
Bone Marrow				
Thrombocytopenia	< 100,000/mm^3	70	29	<0. 001
	< 50,000 /mm^3	41	6	<0.001
Neutropenia	<2000 cells/mm^3	97	96	ns
	<1000 cells/mm^3	81	79	ns
Leukopenia	<4000 cells/mm^3	98	97	ns
	<2000 cells/mm^3	68	52	0.001
Anemia	< 11 g/dL	91	91	ns
	< 8g/dL	18	12	ns
Infections		14	12	ns
Bleeding		10	4	ns
Transfusions		42	31	0.018

ADVERSE EXPERIENCES IN PATIENTS WITH OVARIAN CANCER NCIC STUDY

	Carboplatin Arm Percent*	Cisplatin Arm Percent*	P-Values**
Gastrointestinal			
Nausea and vomiting	93	98	0.010
Vomiting	84	97	<0.001
Other GI side effects	50	62	0.013
Neurologic			
Peripheral neuropathies	16	42	<0.001
Ototoxicity	13	33	<0.001
Other sensory side effects	6	10	ns
Central neurotoxicity	28	40	0.009
Renal			
Serum creatinine elevations	5	13	0.006
Blood urea elevations	17	31	<0.001
Hepatic			
Bilirubin elevations	5	3	ns
SGOT elevations	17	13	ns
Alkaline phosphatase elevations	-	-	-
Electrolytes loss			
Sodium	10	20	0.005
Potassium	16	22	ns
Calcium	16	19	ns
Magnesium	63	88	<0.001
Other side effects			
Pain	36	37	ns
Asthenia	40	33	ns
Cardiovascular	15	19	ns
Respiratory	8	9	ns
Allergic	12	9	ns
Genitourinary	10	10	ns
Alopecia +	50	62	0.017
Mucositis	10	9	ns

* Values are in percent of evaluable patients

** ns=not significant, p>0.05

+ May have been affected by cyclophosphamide dosage delivered

ADVERSE EXPERIENCES IN PATIENTS WITH OVARIAN CANCER SWOG STUDY

		Carboplatin Arm Percent*	Cisplatin Arm Percent*	P-Values**
Bone Marrow				
Thrombocytopenia	< 100,000/mm^3	59	35	<0.001
	< 50,000 /mm^3	22	11	0.006
Neutropenia	<2000 cells/mm^3	95	97	ns
	<1000 cells/mm^3	84	78	ns
Leukopenia	<4000 cells/mm^3	97	97	ns
	<2000 cells/mm^3	76	67	ns
Anemia	< 11 g/dL	88	87	ns
	< 8 g/dL	8	24	<0.001
Infections		18	21	ns
Bleeding		6	4	ns
Transfusions		25	33	ns
Gastrointestinal				
Nausea and vomiting		94	96	ns
Vomiting		82	91	0.007
Other GI side effects		40	48	ns
Neurologic				
Peripheral neuropathies		13	28	0.001
Ototoxicity		12	30	<0.001
Other sensory side effects		4	6	ns
Central neurotoxicity		23	29	ns
Renal				
Serum creatinine elevations		7	38	<0.001
Blood urea elevations		–	–	–
Hepatic				
Bilirubin elevations		5	3	ns
SGOT elevations		23	16	ns
Alkaline phosphatase elevations		29	20	ns

ADVERSE EXPERIENCES IN PATIENTS WITH OVARIAN CANCER SWOG STUDY

	Carboplatin Arm Percent*	Cisplatin Arm Percent*	P-Values**
Electrolytes loss			
Sodium	–	–	–
Potassium	–	–	–
Calcium	–	–	–
Magnesium	58	77	<0.001
Other side effects			
Pain	54	52	ns
Asthenia	43	46	ns
Cardiovascular	23	30	ns
Respiratory	12	11	ns
Allergic	10	11	ns
Genitourinary	11	13	ns
Alopecia +	43	57	0.009
Mucositis	6	11	ns

* Values are in percent of evaluable patients.
** ns=not significant, p >0.05
+ May have been affected by cyclophosphamide dosage delivered

Use as a Single Agent for Secondary Treatment of Advanced Ovarian Cancer

In two prospective, randomized controlled studies in patients with advanced ovarian cancer previously treated with chemotherapy, carboplatin achieved six clinical complete responses in 47 patients. The duration of these responses ranged from 45 to 71 + weeks.

INDICATIONS

Initial Treatment of Advanced Ovarian Carcinoma

PARAPLATIN (carboplatin aqueous solution) INJECTION is indicated for the initial treatment of advanced ovarian carcinoma in established combination with other approved chemotherapeutic agents. One established combination regimen consists of PARAPLATIN and cyclophosphamide. Two randomized controlled studies conducted by the NCIC and SWOG with carboplatin vs. cisplatin, both in combination with

cyclophosphamide, have demonstrated equivalent overall survival between the two groups (see **CLINICAL STUDIES**).

There is limited statistical power to demonstrate equivalence in overall pathologic complete response rates and longterm survival (≥3 years) because of the small number of patients with these outcomes: the small number of patients with residual tumor <2 cm after initial surgery also limits the statistical power to demonstrate equivalence in this subgroup.

Secondary Treatment of Advanced Ovarian Carcinoma

PARAPLATIN is indicated for the palliative treatment of patients with ovarian carcinoma recurrent after prior chemotherapy, including patients who have been previously treated with cisplatin.

Within the group of patients previously treated with cisplatin, those who have developed progressive disease while receiving cisplatin therapy may have a decreased response rate.

CONTRAINDICATIONS

PARAPLATIN (carboplatin aqueous solution) INJECTION is contraindicated in patients with a history of severe allergic reactions to cisplatin or other platinum-containing compounds.

PARAPLATIN should not be employed in patients with severe bone marrow depression or significant bleeding.

WARNINGS

Bone marrow suppression (leukopenia, neutropenia, and thrombocytopenia) is dose-dependent and is also the dose-limiting toxicity. Peripheral blood counts should be frequently monitored during PARAPLATIN treatment and, when appropriate, until recovery is achieved. Median nadir occurs at day 21 in patients receiving single-agent carboplatin. In general, single intermittent courses of PARAPLATIN should not be repeated until leukocyte, neutrophil, and platelet counts have recovered.

Since anemia is cumulative, transfusions may be needed during treatment with PARAPLATIN, particularly in patients receiving prolonged therapy.

Bone marrow suppression is increased in patients who have received prior therapy, especially regimens including cisplatin. Marrow suppression is also increased in patients with impaired kidney function. Initial PARAPLATIN dosages in these patients should be appropriately reduced (see **DOSAGE AND ADMINISTRATION**) and blood counts should be carefully monitored between courses. The use of PARAPLATIN in combination with other bone marrow suppressing therapies must be carefully managed with respect to dosage and timing in order to minimize additive effects.

Pediatric Info

Carboplatin has limited nephrotoxic potential, but concomitant treatment with aminoglycosides has resulted in increased renal and/or audiologic toxicity, and caution must be exercised when a patient receives both drugs. Clinically significant hearing loss has been reported to occur in pediatric patients when carboplatin was administered at higher than recommended doses in combination with other ototoxic agents.

PARAPLATIN can induce emesis, which can be more severe in patients previously receiving emetogenic therapy. The incidence and intensity of emesis have been reduced by using premedication with antiemetics. Although no conclusive efficacy data exist with the following schedules of PARAPLATIN, lengthening the duration of single intravenous administration to 24 hours or dividing the total dose over five consecutive daily pulse doses has resulted in reduced emesis.

Although peripheral neurotoxicity is infrequent, its incidence is increased in patients older than 65 years and in patients previously treated with cisplatin. Pre-existing cisplatin-induced neurotoxicity does not worsen in about 70% of the patients receiving carboplatin as secondary treatment.

Loss of vision, which can be complete for light and colors, has been reported after the use of carboplatin with doses higher than those recommended in the package insert. Vision appears to recover totally or to a significant extent within weeks of stopping these high doses.

As in the case of other platinum-coordination compounds, allergic reactions to carboplatin have been reported. These may occur within minutes of administration and should be managed with appropriate supportive therapy. There is increased risk of allergic reactions including anaphylaxis in patients previously exposed to platinum therapy. (See **CONTRAINDICATIONS** and **ADVERSE REACTIONS: Allergic Reactions**.)

High dosages of carboplatin (more than four times the recommended dose) have resulted in severe abnormalities of liver function tests.

PARAPLATIN (carboplatin aqueous solution) INJECTION may cause fetal harm when administered to a pregnant woman. Carboplatin has been shown to be embryotoxic and teratogenic in rats. There are no adequate and well-controlled studies in pregnant women. If this drug 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 childbearing potential should be advised to avoid becoming pregnant.

PRECAUTIONS

General

Needles or intravenous administration sets containing aluminum parts that may come in contact with PARAPLATIN (carboplatin aqueous solution) INJECTION should not be used for the preparation or administration of the drug. Aluminum can react with carboplatin causing precipitate formation and loss of potency.

Drug Interactions

The renal effects of nephrotoxic compounds may be potentiated by PARAPLATIN.

Carcinogenesis, Mutagenesis, Impairment of Fertility

The carcinogenic potential of carboplatin has not been studied, but compounds with similar mechanisms of action and mutagenicity profiles have been reported to be carcinogenic. Carboplatin has been shown to be mutagenic both *in vitro* and *in vivo.* It has also been shown to be embryotoxic and teratogenic in rats receiving the drug during organogenesis. Secondary malignancies have been reported in association with multi-drug therapy.

Pregnancy

Pregnancy Category D (see **WARNINGS**).

Nursing Mothers

It is not known whether carboplatin is excreted in human milk. Because there is a possibility of toxicity in nursing infants secondary to PARAPLATIN treatment of the mother, it is recommended that breast feeding be discontinued if the mother is treated with PARAPLATIN (carboplatin aqueous solution) INJECTION.

Pediatric Use

Pediatric Info

Safety and effectiveness in pediatric patients have not been established (see **WARNINGS;** "audiologic toxicity").

Geriatric Use

Of the 789 patients in initial treatment combination therapy studies (NCIC and SWOG), 395 patients were treated with carboplatin in combination with cyclophosphamide. Of these, 141 were over 65 years of age and 22 were 75 years or older. In these trials, age was not a prognostic factor for survival. In terms of safety, elderly patients treated with carboplatin were more likely to develop severe thrombocytopenia than younger patients. In a combined database of 1942 patients (414 were ≥65 years of age) that received single-agent carboplatin for different tumor types, a similar incidence of adverse events was seen in patients 65 years and older and in patients less than 65. Other reported clinical experience has not identified differences in responses between elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. Because renal function is often decreased in the elderly, renal function should be considered in the selection of PARAPLATIN dosage (see **DOSAGE AND ADMINISTRATION**).

ADVERSE REACTIONS

For a comparison of toxicities when carboplatin or cisplatin was given in combination with cyclophosphamide, see **CLINICAL STUDIES:** *Comparative Toxicity*.

ADVERSE EXPERIENCES IN PATIENTS WITH OVARIAN CANCER

		First Line Combination Therapy* Percent	Second Line Single Agent Therapy** Percent
Bone Marrow			
Thrombocytopenia	< 100,000/mm^3	66	62
	< 50,000 /mm^3	33	35
Neutropenia	<2000 cells/mm^3	96	67
	<1000 cells/mm^3	82	21
Leukopenia	<4000 cells/mm^3	97	85
	<2000 cells/mm^3	71	26
Anemia	< 11 g/dL	90	90
	< 8g/dL	14	21
Infections		16	5
Bleeding		8	5
Transfusions		35	44
Gastrointestinal			
Nausea and vomiting		93	92
Vomiting		83	81
Other GI side effects		46	21
Neurologic			
Peripheral neuropathies		15	6
Ototoxicity		12	1
Other sensory side effects		5	1
Central neurotoxicity		26	5
Renal			
Serum creatinine elevations		6	10
Blood urea elevations		17	22
Hepatic			
Bilirubin elevations		5	5
SGOT elevations		20	19
Alkaline phosphatase elevations		29	37

ADVERSE EXPERIENCES IN PATIENTS WITH OVARIAN CANCER

	First Line Combination Therapy* Percent	Second Line Single Agent Therapy** Percent
Electrolytes loss		
Sodium	10	47
Potassium	16	28
Calcium	16	31
Magnesium	61	43
Other side effects		
Pain	44	23
Asthenia	41	11
Cardiovascular	19	6
Respiratory	10	6
Allergic	11	2
Genitourinary	10	2
Alopecia	49	2
Mucositis	8	1

***Use with Cyclophosphamide for Initial Treatment of Ovarian Cancer:** Data are based on the experience of 393 patients with ovarian cancer (regardless of baseline status) who received initial combination therapy with carboplatin and cyclophosphamide in two randomized controlled studies conducted by SWOG and NCIC (see **CLINICAL STUDIES**).

Combination with cyclophosphamide as well as duration of treatment may be responsible for the differences that can be noted in the adverse experience table.

****Single Agent Use for the Secondary Treatment of Ovarian Cancer:** Data are based on the experience of 553 patients with previously treated ovarian carcinoma (regardless of baseline status) who received single-agent carboplatin.

In the narrative section that follows, the incidences of adverse events are based on data from 1893 patients with various types of tumors who received carboplatin as single-agent therapy.

Hematologic Toxicity

Bone marrow suppression is the dose-limiting toxicity of PARAPLATIN. Thrombocytopenia with platelet counts below 50,000/mm^3 occurs in 25% of the patients (35% of pretreated ovarian cancer patients); neutropenia with granulocyte counts below 1000/mm^3 occurs in 16% of the patients (21% of pretreated ovarian cancer patients); leukopenia with WBC counts below 2000/mm^3 occurs in 15% of the patients (26% of pretreated ovarian cancer patients). The nadir usually occurs about day 21 in patients receiving single-agent therapy. By day 28, 90% of patients have platelet counts above 100,000/mm^3; 74% have neutrophil counts above 2000/mm^3; 67% have leukocyte counts above 4000/mm^3.

Marrow suppression is usually more severe in patients with impaired kidney function. Patients with poor performance status have also experienced a higher incidence of severe leukopenia and thrombocytopenia.

The hematologic effects, although usually reversible, have resulted in infectious or hemorrhagic complications in 5% of the patients treated with carboplatin, with drug related death occurring in less than 1% of the patients. Fever has also been reported in patients with neutropenia.

Anemia with hemoglobin less than 11 g/dL has been observed in 71% of the patients who started therapy with a baseline above that value. The incidence of anemia increases with increasing exposure to PARAPLATIN. Transfusions have been administered to 26% of the patients treated with carboplatin (44% of previously treated ovarian cancer patients).

Bone marrow depression may be more severe when PARAPLATIN is combined with other bone marrow suppressing drugs or with radiotherapy.

Gastrointestinal Toxicity

Vomiting occurs in 65% of the patients (81% of previously treated ovarian cancer patients) and in about one-third of these patients it is severe. Carboplatin, as a single agent or in combination, is significantly less emetogenic than cisplatin; however, patients previously treated with emetogenic agents, especially cisplatin, appear to be more prone to vomiting. Nausea alone occurs in an additional 10 to 15% of patients. Both nausea and vomiting usually cease within 24 hours of treatment and are often responsive to

antiemetic measures. Although no conclusive efficacy data exist with the following schedules, prolonged administration of carboplatin, either by continuous 24-hour infusion or by daily pulse doses given for 5 consecutive days, was associated with less severe vomiting than the single-dose intermittent schedule. Emesis was increased when carboplatin was used in combination with other emetogenic compounds. Other gastrointestinal effects observed frequently were pain, in 17% of the patients; diarrhea, in 6%; and constipation, also in 6%.

Neurologic Toxicity

Peripheral neuropathies have been observed in 4% of the patients receiving carboplatin (6% of pretreated ovarian cancer patients) with mild paresthesias occurring most frequently. Carboplatin therapy produces significantly fewer and less severe neurologic side effects than does therapy with cisplatin. However, patients older than 65 years and/or previously treated with cisplatin appear to have an increased risk (10%) for peripheral neuropathies. In 70% of the patients with pre-existing cisplatin-induced peripheral neurotoxicity, there was no worsening of symptoms during therapy with carboplatin. Clinical ototoxicity and other sensory abnormalities such as visual disturbances and change in taste have been reported in only 1% of the patients. Central nervous system symptoms have been reported in 5% of the patients and appear to be most often related to the use of antiemetics.

Although the overall incidence of peripheral neurologic side effects induced by carboplatin is low, prolonged treatment, particularly in cisplatin pretreated patients, may result in cumulative neurotoxicity.

Nephrotoxicity

Development of abnormal renal function test results is uncommon, despite the fact that carboplatin, unlike cisplatin, has usually been administered without high-volume fluid hydration and/or forced diuresis. The incidences of abnormal renal function tests reported are 6% for serum creatinine and 14% for blood urea nitrogen (10% and 22%, respectively, in pretreated ovarian cancer patients). Most of these reported abnormalities have been mild and about one-half of them were reversible.

Creatinine clearance has proven to be the most sensitive measure of kidney function in patients receiving carboplatin, and it appears to be the most useful test for correlating drug clearance and bone marrow suppression. Twenty-seven percent of the

patients who had a baseline value of 60 mL/min or more demonstrated a reduction below this value during carboplatin therapy.

Hepatic Toxicity

The incidences of abnormal liver function tests in patients with normal baseline values were reported as follows: total bilirubin, 5%; SGOT, 15%; and alkaline phosphatase, 24%; (5%, 19%, and 37%, respectively, in pretreated ovarian cancer patients). These abnormalities have generally been mild and reversible in about one-half of the cases, although the role of metastatic tumor in the liver may complicate the assessment in many patients. In a limited series of patients receiving very high dosages of carboplatin and autologous bone marrow transplantation, severe abnormalities of liver function tests were reported.

Electrolyte Changes

The incidences of abnormally decreased serum electrolyte values reported were as follows: sodium, 29%; potassium, 20%; calcium, 22%; and magnesium, 29%; (47%, 28%, 31%, and 43%, respectively, in pretreated ovarian cancer patients). Electrolyte supplementation was not routinely administered concomitantly with carboplatin, and these electrolyte abnormalities were rarely associated with symptoms.

Allergic Reactions

Hypersensitivity to carboplatin has been reported in 2% of the patients. These allergic reactions have been similar in nature and severity to those reported with other platinum-containing compounds, ie, rash, urticaria, erythema, pruritus, and rarely bronchospasm and hypotension. Anaphylactic reactions have been reported as part of postmarketing surveillance (see **WARNINGS**). These reactions have been successfully managed with standard epinephrine, corticosteroid, and antihistamine therapy.

Injection Site Reactions

Injection site reactions, including redness, swelling, and pain, have been reported during postmarketing surveillance. Necrosis associated with extravasation has also been reported.

Other Events

Pain and asthenia were the most frequently reported miscellaneous adverse effects; their relationship to the tumor and to anemia was likely. Alopecia was reported (3%). Cardiovascular, respiratory, genitourinary, and mucosal side effects have occurred in 6% or less of the patients. Cardiovascular events (cardiac failure, embolism, cerebrovascular accidents) were fatal in less than 1% of the patients and did not appear to be related to chemotherapy. Cancer-associated hemolytic uremic syndrome has been reported rarely.

Malaise, anorexia and hypertension have been reported as part of postmarketing surveillance.

OVERDOSAGE

There is no known antidote for PARAPLATIN (carboplatin aqueous solution) INJECTION overdosage. The anticipated complications of overdosage would be secondary to bone marrow suppression and/or hepatic toxicity.

DOSAGE AND ADMINISTRATION

NOTE: Aluminum reacts with carboplatin causing precipitate formation and loss of potency, therefore, needles or intravenous sets containing aluminum parts that may come in contact with the drug must not be used for the preparation or administration of PARAPLATIN.

Single-Agent Therapy

PARAPLATIN (carboplatin aqueous solution) INJECTION, as a single agent, has been shown to be effective in patients with recurrent ovarian carcinoma at a dosage of 360 mg/m^2 IV on day 1 every 4 weeks (alternatively see **Formula Dosing**). In general, however, single intermittent courses of PARAPLATIN should not be repeated until the neutrophil count is at least 2000 and the platelet count is at least 100,000.

Combination Therapy with Cyclophosphamide

In the chemotherapy of advanced ovarian cancer, an effective combination for previously untreated patients consists of:

PARAPLATIN—300 mg/m^2 IV on day 1 every four weeks for six cycles (alternatively see **Formula Dosing**).

Cyclophosphamide—600 mg/m^2 IV on day 1 every four weeks for six cycles. For directions regarding the use and administration of cyclophosphamide please refer to its package insert. (See **CLINICAL STUDIES**.)

Intermittent courses of PARAPLATIN in combination with cyclophosphamide should not be repeated until the neutrophil count is at least 2000 and the platelet count is at least 100,000.

Dose Adjustment Recommendations

Pretreatment platelet count and performance status are important prognostic factors for severity of myelosuppression in previously treated patients.

The suggested dose adjustments for single agent or combination therapy shown in the table below are modified from controlled trials in previously treated and untreated patients with ovarian carcinoma. Blood counts were done weekly, and the recommendations are based on the lowest post-treatment platelet or neutrophil value.

Platelets	Neutrophils	Adjusted Dose * (From Prior Course)
>100,000	>2000	125%
50 - 100,000	500 - 2000	No Adjustment
<50,000	<500	75%

*Percentages apply to PARAPLATIN (carboplatin aqueous solution) INJECTION as a single agent or to both PARAPLATIN and cyclophosphamide in combination. In the controlled studies, dosages were also adjusted at a lower level (50 to 60%) for severe myelosuppression. Escalations above 125% were not recommended for these studies.

PARAPLATIN is usually administered by an infusion lasting 15 minutes or longer. No pre- or post-treatment hydration or forced diuresis is required.

Patients with Impaired Kidney Function

Patients with creatinine clearance values below 60 mL/min are at increased risk of severe bone marrow suppression. In renally-impaired patients who received single-agent

carboplatin therapy, the incidence of severe leukopenia, neutropenia, or thrombocytopenia has been about 25% when the dosage modifications in the table below have been used.

Baseline Creatinine Clearance	**Recommended Dose on Day 1**
41 - 59 mL/min	250 mg/m^2
16 - 40 mL/min	200 mg/m^2

The data available for patients with severely impaired kidney function (creatinine clearance below 15 mL/min) are too limited to permit a recommendation for treatment.

These dosing recommendations apply to the initial course of treatment. Subsequent dosages should be adjusted according to the patient's tolerance based on the degree of bone marrow suppression.

Formula Dosing

Another approach for determining the initial dose of PARAPLATIN is the use of mathematical formulae, which are based on a patient's pre-existing renal function or renal function and desired platelet nadir. Renal excretion is the major route of elimination for carboplatin. (See **CLINICAL PHARMACOLOGY**.) The use of dosing formulae, as compared to empirical dose calculation based on body surface area, allows compensation for patient variations in pretreatment renal function that might otherwise result in either underdosing (in patients with above average renal function) or overdosing (in patients with impaired renal function).

A simple formula for calculating dosage, based upon a patient's glomerular filtration rate (GFR in mL/min) and PARAPLATIN target area under the concentration versus time curve (AUC in mg/mL•min), has been proposed by Calvert. In these studies, GFR was measured by ^{51}Cr-EDTA clearance.

CALVERT FORMULA FOR CARBOPLATIN DOSING

Total Dose (mg)=(target AUC) x (GFR + 25)

Note: With the Calvert formula, the total dose of PARAPLATIN is calculated in mg, <u>not</u> mg/m^2.

The target AUC of 4-6 mg/mL•min using single-agent carboplatin appears to provide the most appropriate dose range in previously treated patients. This study also showed a trend between the AUC of single-agent carboplatin administered to previously treated patients and the likelihood of developing toxicity.

	% Actual Toxicity in Previously Treated Patients	
AUC (mg/mL•min)	Gr 3 or Gr 4 Thrombocytopenia	Gr 3 or Gr 4 Leukopenia
4 to 5	16%	13%
6 to 7	33%	34%

Geriatric Dosing

Because renal function is often decreased in elderly patients, formula dosing of PARAPLATIN based on estimates of GFR should be used in elderly patients to provide predictable plasma PARAPLATIN AUCs and thereby minimize the risk of toxicity.

PREPARATION OF INTRAVENOUS SOLUTIONS

PARAPLATIN (carboplatin aqueous solution) INJECTION is a premixed aqueous solution of 10 mg/mL carboplatin.

PARAPLATIN aqueous solution can be further diluted to concentrations as low as 0.5 mg/mL with 5% Dextrose in Water (D_5W) or 0.9% Sodium Chloride Injection, USP.

When prepared as directed, PARAPLATIN aqueous solutions are stable for 8 hours at room temperature (25° C). Since no antibacterial preservative is contained in the formulation, it is recommended that PARAPLATIN aqueous solutions be discarded 8 hours after dilution.

HOW SUPPLIED

PARAPLATIN® (carboplatin aqueous solution) INJECTION

NDC 0015-3210-30 **50 mg**/5 mL aqueous solution in multidose vials (with white flip-off seals), individually cartoned.

NDC 0015-3211-30 **150 mg**/15 mL aqueous solution in multidose vials (with white flip-off seals), individually cartoned.

NDC 0015-3212-30 **450 mg**/45 mL aqueous solution in multidose vials (with white flip-off seals), individually cartoned.

NDC 0015-3216-30 **600 mg**/60 mL aqueous solution in multidose vials (with white flip-off seals), individually cartoned.

Storage

Unopened vials of PARAPLATIN (carboplatin aqueous solution) INJECTION are stable to the date indicated on the package when stored at 25° C (77° F); excursions permitted from 15°-30° C (59°-86° F) [see USP Controlled Room Temperature]. Protect from light.

PARAPLATIN (carboplatin aqueous solution) INJECTION multidose vials maintain microbial, chemical, and physical stability for up to 14 days at 25° C following multiple needle entries.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration. Solutions for infusion should be discarded 8 hours after preparation.

Handling and Disposal

Procedures for proper handling and disposal of anti-cancer drugs should be considered. Several guidelines on this subject have been published [1-7]. There is no general agreement that all of the procedures recommended in the guidelines are necessary or appropriate.

REFERENCES

1) Recommendations for the Safe Handling of Parenteral Antineoplastic Drugs. NIH Publication. No. 83-2621 For sale by the Superintendent of Documents, US Government Printing Office, Washington, DC 20402.
2) AMA Council Report. Guidelines for Handling Parenteral Antineoplastics. *JAMA* 1985; 253(11):1590-1592.
3) National Study Commission on Cytotoxic Exposure - Recommendations for Handling Cytotoxic Agents. Available from Louis P. Jeffrey, Sc.D., Chairman, National Study Commission on Cytotoxic Exposure, Massachusetts College of Pharmacy and Allied Health Sciences, 179 Longwood Avenue, Boston, Massachusetts 02115.

4) Clinical Oncological Society of Australia. Guidelines and Recommendations for Safe Handling of Antineoplastic Agents. *Med J Australia* 1983; 1:426-428.
5) Jones RB, et al: Safe Handling of Chemotherapeutic Agents: A Report From the Mount Sinai Medical Center. *CA-A Cancer Journal for Clinicians* 1983; (Sept/Oct) 258-263.
6) American Society of Hospital Pharmacists Technical Assistance Bulletin on Handling Cytotoxic and Hazardous Drugs. *Am J Hosp Pharm* 1990; 47:1033-1049.
7) Controlling Occupational Exposure to Hazardous Drugs. (OSHA WORK-PRACTICE GUIDELINES). *Am J Health-Syst Pharm* 1996; 53:1669-1685.

US Patent No. 4,657,927

BRISTOL-MYERS SQUIBB
ONCOLOGY

Bristol-Myers Squibb Company
Princeton, New Jersey 08543 USA

xxxxxxx Revised xxxxxx

1 1/8"[28.6mm]

1 3/32"[27.8mm]

PARAPLATIN®
(carboplatin aqueous solution) INJECTION
MULTIDOSE VIAL [MDV]
50 mg per vial
Lot:
Exp.:

NDC 0015-3210-30 5 mL

PARAPLATIN®
(carboplatin aqueous solution)
INJECTION

For IV Use
MULTIDOSE VIAL [MDV]

Rx only

50 mg per vial

10 mg per mL sterile aqueous solution

CAUTION: Cytotoxic Agent

BRISTOL-MYERS SQUIBB ONCOLOGY

Bristol-Myers Squibb Company
Princeton, New Jersey 08543 USA

See top flap for lot number and expiration date.

For Position Only
N0000-0000-001
3

F.P.O.

NDC 0015-3210-30 5 mL

PARAPLATIN®
(carboplatin aqueous solution)
INJECTION

For IV Use
MULTIDOSE VIAL [MDV]

Rx only

50 mg per vial

10 mg per mL sterile aqueous solution

CAUTION: Cytotoxic Agent

BRISTOL-MYERS SQUIBB ONCOLOGY

Bristol-Myers Squibb Company
Princeton, New Jersey 08543 USA

Each vial contains 50 mg carboplatin as a 10 mg/mL solution in Water for Injection.
CONTAINS NO PRESERVATIVES
READ ACCOMPANYING PACKAGE INSERT FOR COMPLETE DIRECTIONS FOR USE.
Store at 25° C (77° F); excursions permitted from 15°-30° C (59°-86° F) [see USP Controlled Room Temperature].
Protect from light.
Retain in carton until use.

2 7/8"[73.0mm]

1165104A1
321030C2

37-000255-00
L1101 (local)

1 1/8"[28.6mm]

1 1/8"[28.6mm]

List No.: 321030
Printed Code No.: 36-022478-01
Date: 11/10/03
Revision Alpha: A

DIE LINES DO NOT PRINT

NOTE: Proof color may not reflect true Pantone Color Barcodes are for position only—Vendor must replace

***Artwork may not be altered in any way without EXCLUSIVE PERMISSION from BMS Package Design Dept.**

File Originator: Eric Schwartz
Phone: (732) 227-5623 Fax: (732) 227-3826
☐ Label ☒ Carton ☐ Insert ☐ Other
☐ QuarkXPress—Version 4..1
☒ Adobe Illustrator—Version 9.02
☐ Adobe Photoshop—Version 4.0
☐ Aldus Freehand—Version 6.0
☐ Other: Version
☐ **File Compression** (self-extracting archives, using Stuffit-Deluxe 4.02)
Supporting fonts have been collected (via FontXPress) and provided on enclosed disk. All fonts are Adobe Type 1, unless otherwise indicated.
Supporting graphic files have been collected (via QuarkXPress' "Collect for Output") and provided on enclosed disk.
(See print of disk contents for listing of fonts and graphic files provided.)

UPC BAR CODE VALUE
N3 0015-3210-30

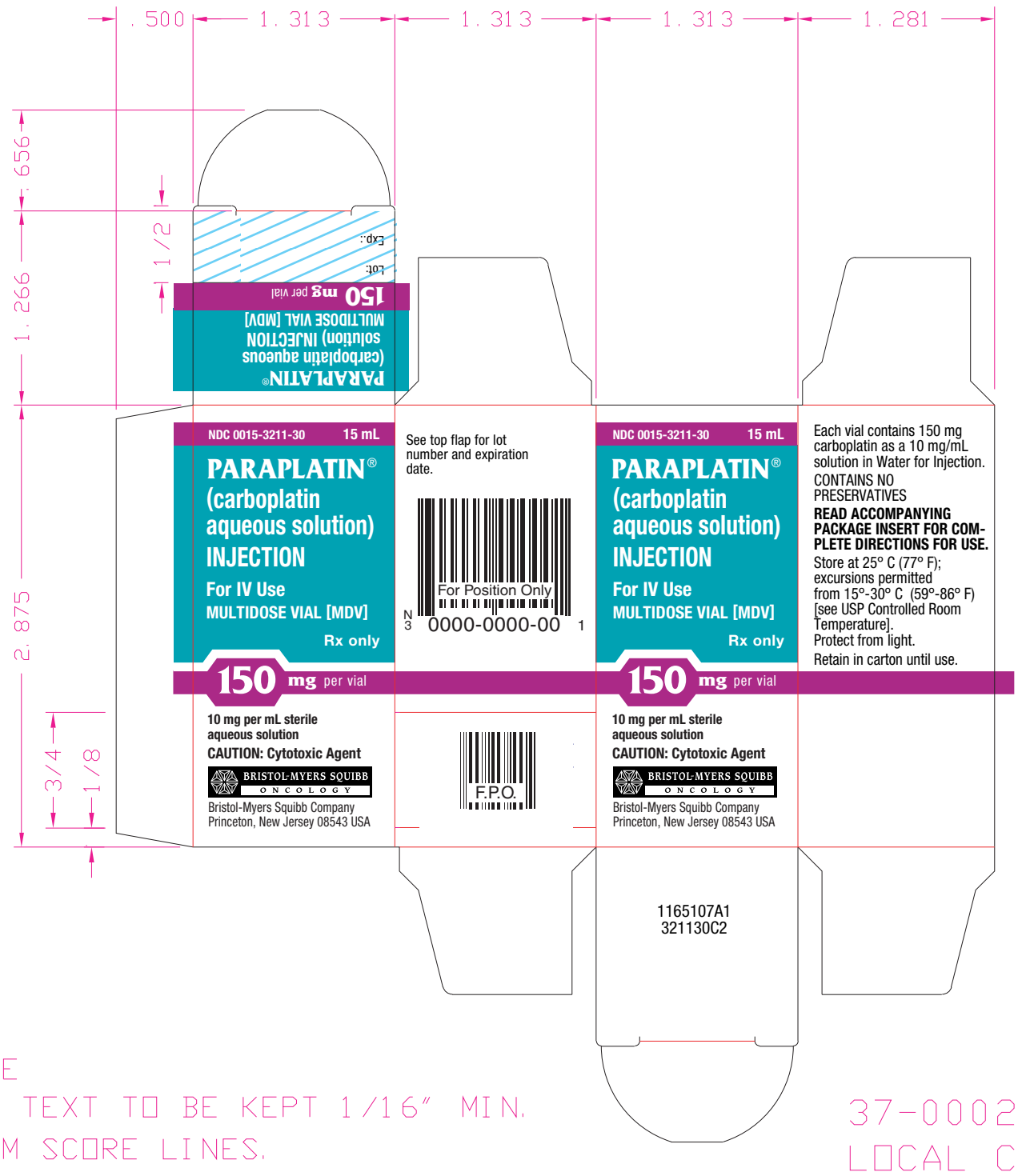
Interleaved 2 of 5 value:
247801
derived from Global Code

100% Black

100% PMS 320 Aqua

100% PMS 108 Yellow

NO VARNISH AREA



NOTE
ALL TEXT TO BE KEPT 1/16" MIN.
FROM SCORE LINES.

37-000261-00
LOCAL CODE L1910

PMS 320 Aqua | Black | PMS 241 Purple | Unvarnished Area

F.P.O.

interleaved 2 of 5 value:
248101
Based on Global Code

List No.: 3211-30
Printed Code No.: 36-022481-01
Date: 11/10/03
Revision Alpha: A **DIE LINES DO NOT PRINT**
NOTE: Proof color may not reflect true Pantone Color
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☐ Aldus Freehand—Version 6.0
☐ Other: Version
☐ File Compression (self-extracting archives)
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Supporting graphic files are included.
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For Position Only
N 3 0000-0000-00 1

UPC Bar code value@ 80%:
N3 0015 3211 30

List No.: 321230
Printed Code No.: 36-022484-01
Date: 11/10/03
Revision Alpha: A

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☐ Aldus Freehand—Version 6.0
☐ Other: Version
☐ **File Compression** (self-extracting archives, using Stuffit-Deluxe 4.02)
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Supporting graphic files have been collected (via QuarkXPress' "Collect for Output") and provided on enclosed disk.
(See print of disk contents for listing of fonts and graphic files provided.)

2 25/32"[70.6mm]

Exp.:
Lot:

450 mg per vial

PARAPLATIN®
(carboplatin aqueous solution) INJECTION
MULTIDOSE VIAL [MDV]

2 3/4"[69.9mm] | 2 25/32"[70.6mm] | 2 3/4"[69.9mm]

4"[101.3mm]

NDC 0015-3212-30 **45 mL**

PARAPLATIN®
(carboplatin aqueous solution) INJECTION

For IV Use
MULTIDOSE VIAL [MDV]

Rx only

450 mg per vial

10 mg per mL sterile aqueous solution
CAUTION: Cytotoxic Agent

BRISTOL-MYERS SQUIBB ONCOLOGY
Bristol-Myers Squibb Company
Princeton, New Jersey 08543 USA

See top flap for lot number and expiration date.

For Position Only
N 3 0000-0000-00 1

F.P.O.

NDC 0015-3212-30 **45 mL**

PARAPLATIN®
(carboplatin aqueous solution) INJECTION

For IV Use
MULTIDOSE VIAL [MDV]

Rx only

450 mg per vial

10 mg per mL sterile aqueous solution
CAUTION: Cytotoxic Agent

BRISTOL-MYERS SQUIBB ONCOLOGY
Bristol-Myers Squibb Company
Princeton, New Jersey 08543 USA

Each vial contains 450 mg carboplatin as a 10 mg/mL solution in Water for Injection.
CONTAINS NO PRESERVATIVES
READ ACCOMPANYING PACKAGE INSERT FOR COMPLETE DIRECTIONS FOR USE.
Store at 25° C (77° F); excursions permitted from 15°-30° C (59°-86° F) [see USP Controlled Room Temperature].
Protect from light.
Retain in carton until use.

2 25/32"[70.6mm]

1165110A1
321230C2

37-000258-01
L1909A (local)

UPC BAR CODE VALUE
N3 0015-3212-30

100% Black

100% PMS 320 Aqua

100% PMS 279 Blue

Unvarnished Area

Interleaved 2 of 5 value:
248401
Based on Global Code

List No.: 321630
Printed Code No.: 36-022939-00
Date: 11/10/03
Revision Alpha: C

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☐ Adobe Photoshop—Version 7.0
☐ Aldus Freehand—Version 6.0
☐ Other: Version
☐ **File Compression** (self-extracting archives, using Stuffit-Deluxe 4.02)
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Supporting graphic files have been collected (via QuarkXPress' "Collect for Output") and provided on enclosed disk.
(See print of disk contents for listing of fonts and graphic files provided.)

2 25/32"[70.6mm]

Exp.:
Lot:

PARAPLATIN®
(carboplatin aqueous solution) INJECTION
MULTIDOSE VIAL [MDV]
600 mg per vial

2 3/4"[69.9mm] | 2 25/32"[70.6mm] | 2 3/4"[69.9mm]

4"[101.3mm]

NDC 0015-3216-30 **60 mL**

PARAPLATIN®
(carboplatin aqueous solution) INJECTION
For IV Use
MULTIDOSE VIAL [MDV]
Rx only

600 mg per vial

10 mg per mL sterile aqueous solution
CAUTION: Cytotoxic Agent

BRISTOL-MYERS SQUIBB ONCOLOGY
Bristol-Myers Squibb Company
Princeton, New Jersey 08543 USA

See top flap for lot number and expiration date.

For Position Only
N 3 0000-0000-00 1

F.P.O.

NDC 0015-3216-30 **60 mL**

PARAPLATIN®
(carboplatin aqueous solution) INJECTION
For IV Use
MULTIDOSE VIAL [MDV]
Rx only

600 mg per vial

10 mg per mL sterile aqueous solution
CAUTION: Cytotoxic Agent

BRISTOL-MYERS SQUIBB ONCOLOGY
Bristol-Myers Squibb Company
Princeton, New Jersey 08543 USA

Each vial contains 600 mg carboplatin as a 10 mg/mL solution in Water for Injection.

CONTAINS NO PRESERVATIVES

READ ACCOMPANYING PACKAGE INSERT FOR COMPLETE DIRECTIONS FOR USE.

Store at 25° C (77° F); excursions permitted from 15°-30° C (59°-86° F) [see USP Controlled Room Temperature]. Protect from light.

Retain in carton until use.

UPC BAR CODE VALUE
N3 0015-3216-30

100% Black

100% PMS 320 Aqua

30% PMS 320 Aqua

Interleaved 2 of 5 value:
293900
Based on Global Code

Unvarnished Area

2 25/32"[70.6mm]

37-000258-01
L1909A (local)

1173557
321630C-1

PARAPLATIN AQ 50 MG
LIST# 321030
NDC# 0015-3210-30
RSS LIMITED EMBEDDED BARCODE VALUE: 011030015321030C

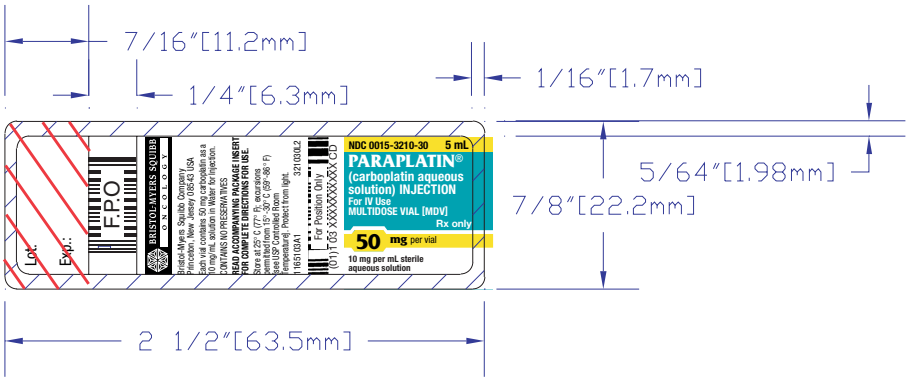
HUMAN READABLE NDC# USING GTIN: N(01) 1 03 0015-3210-30C
WHERE:
0015-3210-30 = NDC NUMBER
C = CHECK DIGIT

FOLLOW THE APPROPRIATE FORMAT:
####-####-## (4 DIGITS - 4 DIGITS - 2 DIGITS)

100% Black | PMS 108 Yellow | PMS 320 Aqua

unvarnished area

I 2 of 5 Barcode value:
210302



NOTE
COPY FREE AREA - I 2 OF 5 AREA
IMPRINT AREA

35-005555-00
LOCAL CODE 5702

List No.: 321030
Printed Code No.: 34-22477-01
Date: 11/10/03
Revision Alpha: A **DIE LINES DO NOT PRINT**
NOTE: Proof color may not reflect true Pantone Color
Barcodes are for position only—Vendor must replace
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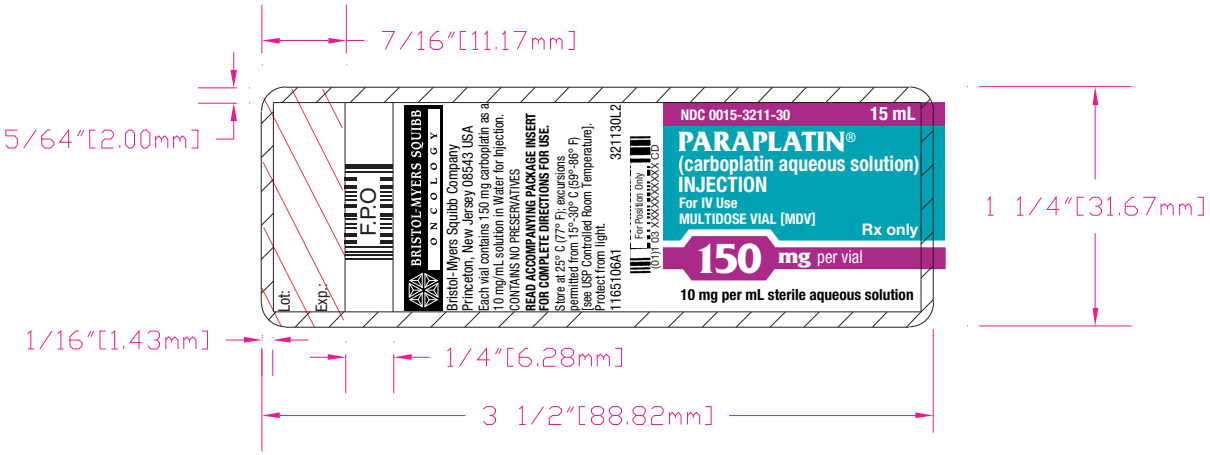
File Originator: Eric Schwartz
Phone: (732) 227-5623 Fax: (732) 227-3826
☒ Label ☐ Carton ☐ Insert ☐ Other Blister
☐ QuarkXPress—Version 4.0
☒ Adobe Illustrator—Version 9.0
☐ Adobe Photoshop—Version 4.0
☐ Aldus Freehand—Version 6.0
☐ Other: _____ Version _____
☐ File Compression (self-extracting archives)
All fonts are Adobe Type 1, unless otherwise indicated.
Supporting graphic files are included.
See print of disk contents for graphic files.

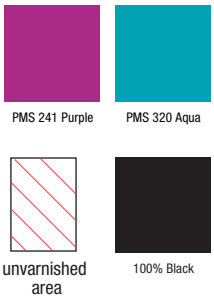
PARAPLATIN AQ 150 MG
LIST# 321130
NDC# 0015-3211-30
RSS LIMITED EMBEDDED BARCODE VALUE: 011030015321130C

HUMAN READABLE NDC# USING GTIN: N(01) 1 03 0015-3211-30C
WHERE:
0015-3211-30 = NDC NUMBER
C = CHECK DIGIT

FOLLOW THE APPROPRIATE FORMAT:
####-####-## (4 DIGITS - 4 DIGITS - 2 DIGITS)

I 2 of 5 Barcode value:
211302





List No.: 321130
Printed Code No.: 34-022480-01
Date: 11/20/03
Revision Alpha: B **DIE LINES DO NOT PRINT**
NOTE: Proof color may not reflect true Pantone Color
Barcodes are for position only—Vendor must replace
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Exclusive Permission from BMS Package Design Dept.

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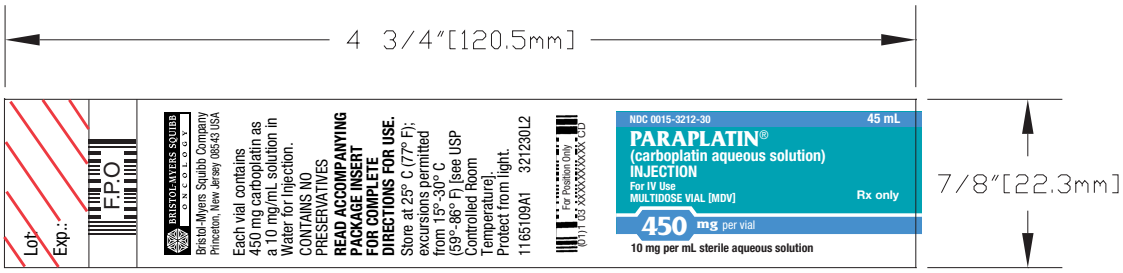
Phone: (732) 227-5623 Fax: (732) 227-3826
(●) Label ( ) Carton ( ) Insert ( ) Other Blister
( ) QuarkXPress—Version 4.0
(●) Adobe Illustrator—Version 9.02
( ) Adobe Photoshop—Version 7.0
( ) Aldus Freehand—Version 6.0
( ) Other: _____ Version _____
( ) File Compression (self-extracting archives)
All fonts are Adobe Type 1, unless otherwise indicated.
Supporting graphic files are included.
See print of disk contents for graphic files.



35-001012-01
5537A (local)

PARAPLATIN AQ 450 MG
LIST# 321230
NDC# 0015-3212-30
RSS LIMITED EMBEDDED BARCODE VALUE: 011030015321230C

HUMAN READABLE NDC# USING GTIN: N(01) 1 03 0015-3212-30C
WHERE:
0015-3212-30 = NDC NUMBER
C = CHECK DIGIT

FOLLOW THE APPROPRIATE FORMAT:
####-####-## (4 DIGITS - 4 DIGITS - 2 DIGITS)

PMS 279 Blue

PMS 320 Aqua

Black

unvarnished area

List No.: 321230
Printed Code No.: 34-022483-01
Date: 11/10/03
Revision Alpha: A **DIE LINES DO NOT PRINT**
NOTE: Proof color may not reflect true Pantone Color
Barcodes are for position only—Vendor must replace
Artwork may not be altered, in any way, without Exclusive Permission from BMS Package Design Dept.

File Originator: Eric Schwartz
Phone: (732) 227-5623 Fax: (732) 227-3826
☒ Label ☐ Carton ☐ Insert ☐ Other Blister
☐ QuarkXPress—Version 4.0
☒ Adobe Illustrator—Version 9.02
☐ Adobe Photoshop—Version 7.0
☐ Aldus Freehand—Version 6.0
☐ Other: _____ Version _____
☐ File Compression (self-extracting archives)
All fonts are Adobe Type 1, unless otherwise indicated.
Supporting graphic files are included.
See print of disk contents for graphic files.

I 2 of 5 Barcode value:
212302

4 3/4"[120.5mm]

Lot
Exp.:
F.P.O

BRISTOL-MYERS SQUIBB ONCOLOGY
Bristol-Myers Squibb Company
Princeton, New Jersey 08543 USA

Each vial contains
600 mg carboplatin as
a 10 mg/mL solution in
Water for Injection.
CONTAINS NO
PRESERVATIVES
READ ACCOMPANYING
PACKAGE INSERT
FOR COMPLETE
DIRECTIONS FOR USE.
Store at 25° C (77° F);
excursions permitted
from 15°-30° C
(59°-86° F) [see USP
Controlled Room
Temperature].
Protect from light.
1173556 321630L-1

For Position Only
(01) 1 03 XXXXXXXXXX CD

NDC 0015-3216-30 60 mL
PARAPLATIN®
(carboplatin aqueous solution)
INJECTION
For IV Use
MULTIDOSE VIAL [MDV]
Rx only
600 mg per vial
10 mg per mL sterile aqueous solution

7/8"[22.3mm]

35-001012-01
5537A (local)

PARAPLATIN AQ 600 MG
LIST# 321630
NDC# 0015-3216-30
RSS LIMITED EMBEDDED BARCODE VALUE: 011030015321630C

(01) 1 03 XXXXXXXXXX CD

HUMAN READABLE NDC# USING GTIN: N(01) 1 03 0015-3216-30C
WHERE:
0015-3216-30 = NDC NUMBER
C = CHECK DIGIT

FOLLOW THE APPROPRIATE FORMAT:
####-####-## (4 DIGITS - 4 DIGITS - 2 DIGITS)

30 % PMS 320 Aqua
PMS 320 Aqua
Black
unvarnished area

List No.: 321630
Printed Code No.: 34-022938-00
Date: 11/10/03
Revision Alpha: D **DIE LINES DO NOT PRINT**
NOTE: Proof color may not reflect true Pantone Color
Barcodes are for position only—Vendor must replace
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File Originator: Eric Schwartz
Phone: (732) 227-5623 Fax: (732) 227-3826
☒ Label ☐ Carton ☐ Insert ☐ Other Blister
☐ QuarkXPress—Version 4.0
☒ Adobe Illustrator—Version 9.0
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☐ Aldus Freehand—Version 6.0
☐ Other: _____ Version _____
☐ File Compression (self-extracting archives)
All fonts are Adobe Type 1, unless otherwise indicated.
Supporting graphic files are included.
See print of disk contents for graphic files.

I 2 of 5 Barcode value:
216301