WARNING

Cisplatin should be administered under the supervision of a qualified physician experienced in the use of cancer chemothera-peutic agents. Appropriate management of therapy and complications is possible only when adequate diagnostic and treatment facilities are readily available. Cumulative renal toxicity associated with cipalatin is evera.

with cisplatin is severe. Other major dose-related toxicities are myelosuppression, nausea, and vomiting.

Ototoxicity, which may be more pro-nounced in children, and is manifested by tinnitus, and/or loss of high frequency hearing and occasionally deafness, is sig-nificant.

Anaphylactic-like reactions to cisplatin have been reported. Facial edema, bronchoconstriction, tachycardia, and hypotension may occur within minutes of cis-platin administration. Epinephrine, corticosteroids, and antihistamines have been effectively employed to alleviate symptoms (see WARNINGS and ADVERSE REAC-TIONS)

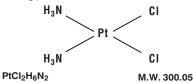
Exercise caution to prevent inadvertent cisplatin overdose. Doses greater than 100 mg/m²/cycle once every 3 to 4 weeks are rarely used. Care must be taken to avoid inadvertent cisplatin overdose due to confusion with carboplatin or prescrib-ing practices that fail to differentiate daily doses from total dose per cycle.

DESCRIPTION:

Cisplatin Injection is a clear, colorless, sterile aqueous solution. Each 50 mL, 100 mL or 200 mL amber vial of Cisplatin Injection contains: 1 mg/mL cisplatin, 9 mg/mL sodium chloride, hydrochloric acid and/or sodium hydroxide to adjust pH, and water for injection to a final

volume of 50 mL, 100 mL or 200 mL, respectively. The pH range of Cisplatin Injection is 3.8 to 5.9. Cisplatin Injection must be further diluted prior to administration (see DOSAGE AND ADMINISTRATION, All Patients).

ADMINISTRATION, *All Patients*). The active ingredient, cisplatin, is a yellow to orange crystalline powder. Cisplatin is a heavy metal complex containing a central atom of platinum surrounded by two chloride atoms and two ammonia molecules in the cis position. It is soluble in water or saline at 1 mg/mL and in dimethylformamide at 24 mg/mL. It has a melting point of 207°C.



CLINICAL PHARMACOLOGY:

Plasma concentrations of the parent compound, cisplatin, decay monoexponentially with a half-life of about 20 to 30 minutes following bolus administrations of 50 or 100 mg/m² doses. Monoexponential decay and plasma half-lives of about 0.5 hour are also seen following 2-hour or 7-hour infu-sions of 100 mg/m². After the latter, the total-body clearances and volumes of distribution at steady-state for cisplatin are about 15 to 16 L/h/m^2 and 11 to 12 L/m^2 .

Due to its unique chemical structure, the chlorine atoms of cisplatin are more subject to chemical displacement reactions by nucleophiles, such as water or sulfhydryl groups, than to enzyme-catalyzed metabolism. At physi-ological pH in the presence of 0.1M NaCl, the predominant molecular species are cisplatin and monohydroxymonochloro *cis*-diammine platinum (II) in nearly equal concentrations. The latter, combined with the possible direct displacement of the chlorine atoms by sulfhydryl groups of amino acids or proteins, accounts for the instability of cisplatin in biological matrices. The ratios of cisplatin to total free (ultrafilterable) platinum in the plasma vary considerably

between patients and range from 0.5 to 1.1 after a dose of 100 mg/m². Cisplatin does not undergo the instan-taneous and reversible binding to plasma proteins that is characteristic of normal drugprotein binding. However, the platinum from cisplatin, but not cisplatin itself, becomes bound to several plasma proteins, including albumin, transferrin, and gamma globulin. Three hours after a bolus injection and two hours after the end of a three-hour infusion,

90% of the plasma platinum is protein bound. The complexes between albumin and the platinum from cisplatin do not dissociate to a significant extent and are slowly eliminated with a minimum half-life of five days or more.

Following cisplatin doses of 20 to 120 mg/m², the concentrations of platinum are highest in liver, prostate, and kidney; somewhat lower in bladder, muscle, testicle, pancreas, and spleen; and lowest in bowel, adrenal, heart, lung, cerebrum, and cerebellum. Platinum is present in tissues for as long as 180 days after the last administration. With the exception of intracerebral tumors, platinum concentrations in tumors are generally somewhat lower than the concentrations in the organ where the tumor is located. Dif-ferent metastatic sites in the same patient may have different platinum concentrations. Hepatic metastases have the highest platinum concentrations, but these are similar to the platinum concentrations in normal liver. Maximum red blood cell concentrations of platinum are reached within 90 to 150 minutes after a 100 mg/m² dose of cisplatin and decline in a biphasic manner with a terminal half-life of 36 to 47 days.

36 to 47 days. Over a dose range of 40 to 140 mg cispla-tin/m² given as a bolus injection or as infusions varying in length from 1 hour to 24 hours, from 10% to about 40% of the administered platinum is excreted in the urine in 24 hours. Over five days following administration of 40 to 100 mg/m² doses given as rapid, 2- to 3-hour, or 6- to 8-hour infusions, a mean of 35% to 51% of the dosed platinum is excreted in the urine. Similar mean urinary recoveries of platiurine. Similar mean urinary recoveries of plati-num of about 14% to 30% of the dose are found following five daily administrations of 20, 30, or 40 mg/m²/day. Only a small percentage of the administered platinum is excreted beyond 24 hours post-infusion and most of the platinum excreted in the urine in 24 hours is excreted within the first few hours. Platinum-containing species excreted in the urine are the same as those found following the incubation of cispla-tin with urine from healthy subjects, except that the proportions are different. The parent compound, cisplatin, is excreted

in the urine and accounts for 13% to 17% of the dose excreted within one hour after administration of 50 mg/m². The mean renal clearance of cisplatin exceeds creatinine clearance and is 62 and 50 mL/min/m² following administra-tion of 100 mg/m² as 2-hour or 6- to 7-hour

The renal clearance of free (ultrafilterable) platinum also exceeds the glomerular filtration rate indicating that cisplatin or other platinum-containing molecules are actively secreted by the kidneys. The renal clearance of free platinum is nonlinear and variable and is dependent on dose urine flow rate and individual variability in the extent of active secretion and possible

tubular reabsorption. There is a potential for accumulation of ultra-filterable platinum plasma concentrations whenever cisplatin is administered on a daily basis but not when dosed on an intermittent basis.

No significant relationships exist between the renal clearance of either free platinum or cisplatin and creatinine clearance.

Although small amounts of platinum are present in the bile and large intestine after administration of cisplatin, the fecal excretion of platinum appears to be insignificant.

INDICATIONS AND USAGE:

Cisplatin Injection is indicated as therapy to be employed as follows:

Metastatic Testicular Tumors

In established combination therapy with other approved chemotherapeutic agents in patients with metastatic testicular tumors who have already received appropriate surgical and/or radiotherapeutic procedures.

Metastatic Ovarian Tumors

In established combination therapy with other approved chemotherapeutic agents in patients with metastatic ovarian tumors who have already received appropriate surgical and/or radiotherapeutic procedures. An established combination consists of cisplatin and cyclo-phosphamide. Cisplatin Injection, as a single agent, is indicated as secondary therapy in patients with metastatic ovarian tumors refractory to standard chemotherapy who have not previously received Cisplatin Injection therapy.

Advanced Bladder Cancer

Cisplatin Injection is indicated as a single agent for patients with transitional cell bladder cancer

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45628G/Revised: July 2015



which is no longer amenable to local treat-ments, such as surgery and/or radiotherapy. CONTRAINDICATIONS:

Cisplatin is contraindicated in patients with pre-existing renal impairment. Cisplatin should or in patients with hearing impairment. Cisplatin is contraindicated in patients with a

history of allergic reactions to cisplatin or other platinum-containing compounds.

WARNINGS:

WARNINGS: Cisplatin produces cumulative nephrotoxic-ity which is potentiated by aminoglycoside antibiotics. The serum creatinine, blood urea nitrogen (BUN), creatinine clearance, and magnesium, sodium, potassium, and calcium levels should be measured prior to initiating therapy, and prior to each subse-quent course. At the recommended dos-age, cisplatin should not be given more frequently than once every 3 to 4 weeks (see ADVERSE REACTIONS). Elderly patients may be more susceptible to nephrotoxicity (see be more susceptible to nephrotoxicity (see **PRECAUTIONS**, Geriatric Use).

There are reports of severe neuropathies in patients in whom regimens are employed using higher doses of cisplatin or greater dose frequencies than those recommended. These neuropathies may be irreversible and are seen as paresthesias in a stocking-glove distribuas parestries as in a stocking-glove distribu-tion, areflexia, and loss of proprioception and vibratory sensation. Elderly patients may be more susceptible to peripheral neuropathy (see PRECAUTIONS, Geriatric Use). Loss of motor function has also been reported.

reported.

Anaphylactic-like reactions to cisplatin have been reported. These reactions have occurred within minutes of administration to patients with prior exposure to cisplatin, and have been alleviated by administration of epinephrine, corticosteroids, and antihistamines. Cisplatin can commonly cause ototoxicity which is cumulative and may be severe. Audio-

metric testing should be performed prior to initiating therapy and prior to each subsequent dose of drug (see **ADVERSE REACTIONS**).

All pediatric patients receiving cisplatin should have audiometric testing at baseline, prior to each subsequent dose of drug and for several years post therapy. Cisplatin can cause fetal harm when admin-

istered to a pregnant woman. Cisplatin is mutagenic in bacteria and produces chromosome aberrations in animal cells in tissue culture. In mice cisplatin is teratogenic and embryotoxic. If this drug is used during pregnancy or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus. Patients should be

potential hazard to the fetus. Patients should be advised to avoid becoming pregnant. The carcinogenic effect of cisplatin was studied in BD IX rats. Cisplatin was admin-istered intraperitoneally (i.p.) to 50 BD IX rats for 3 weeks, 3 x 1 mg/kg body weight per week. Four hundred and fifty-five days after the first application, 33 animals died, 13 of them related to malignancies: 12 leukemias and 1 renal fibrosarcoma. The development of acute leukemia coin-

The development of acute leukemia coin-cident with the use of cisplatin has been reported. In these reports, cisplatin was generally given in combination with other leuke-

mogenic agents. Injection site reactions may occur during the administration of cisplatin (see **ADVERSE REACTIONS**). Given the possibility of extravasation, it is recommended to closely monitor the infusion site for possible infiltration during drug administration. A specific treatment for extravasation reactions is unknown at this time.

PRECAUTIONS: Peripheral blood counts should be monitored weekly. Liver function should be monitored periodically. Neurologic examination should also be performed regularly (see **ADVERSE** REACTIONS).

Drug Interactions

Plasma levels of anticonvulsant agents may be-come subtherapeutic during cisplatin therapy. In a randomized trial in advanced ovar-ian cancer, response duration was adversely

affected when pyridoxine was used in combi nation with altretamine (hexamethylmelamine) and cisplatin.

Carcinogenesis, Mutagenesis, Impairment of Fertility (see WARNINGS).

Pregnancy Pregnancy Category D (see WARNINGS).

Nursing Mothers Cisplatin has been reported to be found in human milk; patients receiving cisplatin should not breast-feed.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

All children should have audiometric monitoring performed prior to initiation of therapy, prior to each subsequent dose, and for several years post therapy. Advanced testing methods may allow for earlier detection of hearing loss in an attempt to facilitate the rapid initiation of interventions that can limit the potential adverse impact of hearing impairment on a child's cognitive and social development.

Geriatric Use

Insufficient data are available from clinical trials of cisplatin in the treatment of metastatic testicular tumors or advanced bladder cancer to determine whether elderly patients respond differently than younger patients. In four clinical trials of combination chemotherapy for advanced ovarian carcinoma, 1,484 patients received cisplatin either in combination with cyclophosphamide or paclitaxel. Of these, 426 (29%) were older than 65 years. In these trials, age was not found to be a prognostic factor for survival. However, in a later secondary analysis for one of these trials, elderly patients were found to have shorter survival compared with younger patients. In all four trials, elderly patients experienced more severe neutropenia than younger patients. Higher incidences of severe thrombocytopenia and leukopenia were also seen in elderly compared with younger patients, although not in all cisplatin-containing treatment arms. In the two trials where nonhematologic toxicity was evaluated according to age, elderly patients had a numerically higher incidence of peripheral neuropathy than younger patients. Other reported clinical experience suggests that elderly patients may be more susceptible to myelosuppression, infectious complications, and peripheratoricity

be more susceptible to myelosuppression, infectious complications, and nephrotoxicity than younger patients. Cisplatin is known to be substantially excreted by the kidney and is contraindicated in patients with pre-existing renal impairment. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and renal function should be monitored should be monitored.

ADVERSE REACTIONS:

Nephrotoxicity

Nephrotoxicity Dose-related and cumulative renal insuffi-ciency, including acute renal failure, is the major dose-limiting toxicity of cisplatin. Renal toxicity has been noted in 28% to 36% of patients treated with a single dose of 50 mg/m². It is first noted during the second week after a dose and is manifested by elevations in BUN and creatinine, serum uric acid and/or a decrease in creating clearance. **Benal** a decrease in creatinine clearance. Renal toxicity becomes more prolonged and severe with repeated courses of the drug. Renal function must return to normal before another dose of cisplatin can be given. Elderly patients may be more susceptible to nephrotoxicity (see PRECAUTIONS, Geriatric Use).

Impairment of renal function has been associated with renal tubular damage. The administration of cisplatin using a 6- to 8-hour infusion with intravenous hydration, and mannitol has been used to reduce nephrotoxicity. However, renal toxicity still can occur after utilization of these procedures.

Ototoxicity

Ototoxicity has been observed in up to 31% of patients treated with a single dose of cisplatin 50 mg/m², and is manifested by tinnitus and/ or hearing loss in the high frequency range (4,000 to 8,000 Hz). The prevalence of hear-ing loss in children is particularly high and is estimated to be 40 to 60%. Decreased ability to hear normal conversitional tops hear normal conversational tones may occur. Deafness after the initial dose of cisplatin has been reported. Ototoxic effects may be more

severe in children receiving cisplatin. Hearing loss can be unilateral or bilat-eral and tends to become more frequent and severe with repeated cisplatin doses. It is unclear whether cisplatin-induced ototoxicity is reversible. Vestibular toxicity has also been reported. Ototoxic effects may be related to the peak plasma concentration of cisplatin. Ototoxicity can occur during treatment or be delayed. Audiometric monitoring should be performed prior to initiation of therapy, prior to each subsequent dose, and for several years post therapy.

The risk of ototoxicity may be increased by prior or simultaneous cranial irradiation, and may be more severe in patients less than 5 years of age, patients being treated with other ototoxic drugs (e.g., aminoglycosides and vancomycin), and in patients with renal impairment.

Genetic factors (e.g., variants in the thiopurine S-methyltransferase [TPMT] gene) may contribute to cisplatin-induced ototoxicity; although this association has not been consistent across populations and study designs.

Hematologic Myelosuppression occurs in 25% to 30% of patients treated with cisplatin. The nadirs in circulating platelets and leukocytes occur between days 18 to 23 (range 7.5 to 45) with between days to 0.20 (alige 1.30 4.50) with most patients recovering by day 39 (range 13 to 62). Leukopenia and thrombocytope-nia are more pronounced at higher doses ($>50 mg/m^{\circ}$). Anemia (decrease of 2 g hemo-globin/100 mL) occurs at approximately the globin/100 mL) occurs at approximately the same frequency and with the same timing as leukopenia and thrombocytopenia. Fever and infection have also been reported in patients with neutropenia. Potential fatalities due to with hear openal. For that attaines due to infection (secondary to myelosuppression) have been reported. Elderly patients may be more susceptible to myelosuppression (see PRECAUTIONS, Geriatric Use). In addition to anemia secondary to myelo-

suppression, a Coombs' positive hemolytic anemia has been reported. In the presence of cisplatin hemolytic anemia, a further course of treatment may be accompanied by increased hemolysis and this risk should be weighed by

the treating physician. The development of acute leukemia coin-cident with the use of cisplatin has been reported. In these reports, cisplatin was gen-erally given in combination with other leuke-mogenic agents.

Gastrointestinal

Gastrointestinal Marked nausea and vomiting occur in almost all patients treated with cisplatin, and may be so severe that the drug must be discontinued. Nausea and vomiting may begin within 1 to 4 hours after treatment and last up to 24 hours. Various degrees of vomiting, nausea and/or anorexia may persist for up to 1 week after treatment treatment.

Delayed nausea and vomiting (begins or persists 24 hours or more after chemotherapy) has occurred in patients attaining complete emetic control on the day of cisplatin therapy.

Diarrhea has also been reported. To report SUSPECTED ADVERSE REAC-TIONS, contact Fresenius Kabi, Vigilance & Medical Affairs at 1-800-551-7176 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

OTHER TOXICITIES: Vascular toxicities coincident with the use of cisplatin in combination with other antiof cisplatin in combination with other anti-neoplastic agents have been reported. The events are clinically heterogeneous and may include myocardial infarction, cerebrovascu-lar accident, thrombotic microangiopathy (hemolytic-uremic syndrome [HUS]), or cerebral arteritis. Various mechanisms have been proposed for these vascular complica-tions. There are also reports of Raynaud's phenomenon occurring in patients treated with phenomenon occurring in patients treated with the combination of bleomycin, vinblastine with or without cisplatin. It has been suggested that hypomagnesemia developing coincident with the use of cisplatin may be an added, although not essential, factor associated with this event. However, it is currently unknown if the cause of Raynaud's phenomenon in these cases is bleomycin, vinblastine, hypomagnesemia, or a combination of any of these factors.

Serum Electrolyte Disturbances Hypomagnesemia, hypocalcemia, hypona-tremia, hypokalemia, and hypophosphatemia have been reported to occur in patients treated with cisplatin and are probably related to renal tubular damage. Tetany has been reported in those patients with hypocalcemia and hypomagnesemia. Generally, normal serum elec-trolyte levels are restored by administering supplemental electrolytes and discontinuing cisplatin.

Inappropriate antidiuretic hormone syndrome has also been reported.

Hvperuricemia

Hyperuricemia has been reported to occur at approximately the same frequency as the increases in BUN and serum creatinine.

It is more pronounced after doses greater than 50 mg/m², and peak levels of uric acid generally occur between 3 to 5 days after the dose. Allopurinol therapy for hyperuricemia effectively reduces uric acid levels.

Neurotoxicity (see WARNINGS).

Neurotoxicity, usually characterized by peri-pheral neuropathies, has been reported. The neuropathies usually occur after prolonged therapy (4 to 7 months); however, neurologic symptoms have been reported to occur after a single dose. Although symptoms and signs of cisplatin neuropathy usually develop during treatment, symptoms of neuropathy may begin 3 to 8 weeks after the last dose of cisplatin. Cis-platin therapy should be discontinued when the symptoms are first observed. The neuropathy, however, may progress further even after stop-ping treatment. Preliminary evidence suggests peripheral neuropathy may be irreversible in some patients. Elderly patients may be more susceptible to peripheral neuropathy (see **PRECAUTIONS, Geriatric Use**).

Lhermitte's sign, dorsal column myelopathy, and autonomic neuropathy have also been reported.

Loss of taste, seizures, leukoencephalopa thy, and reversible posterior leukoencepha-lopathy syndrome (RPLS) have also been reported. Muscle cramps, defined as localized, pain-

ful, involuntary skeletal muscle contractions of sudden onset and short duration, have been reported and were usually associated in patients receiving a relatively high cumulative dose of cisplatin and with a relatively advanced symptomatic stage of peripheral neuropathy.

Ocular Toxicity

Optic neuritis, papilledema, and cerebral blind-ness have been reported in patients receiving standard recommended doses of cisplatin. Improvement and/or total recovery usually occurs after discontinuing cisplatin. Steroids with or without mannitol have been used; however, efficacy has not been established. Blurred vision and altered color percep-

Blurred vision and altered color percep-tion have been reported after the use of regi-mens with higher doses of cisplatin or greater dose frequencies than recommended in the package insert. The altered color perception manifests as a loss of color discrimination, particularly in the blue-yellow axis. The only finding on funduscopic exam is irregular retinal pigmentation of the macular area.

Anaphylactic-Like Reactions

Anaphylactic-like reactions have been reported in patients previously exposed to cisplatin. The reactions consist of facial edema, wheezing, tachycardia, and hypotension within a few minutes of drug administration. Reactions may be controlled by intravenous epinephrine with corticosteroids and/or antihistamines as indicated. Patients receiving cisplatin should be observed carefully for possible anaphylactic-like reactions and supportive equipment and medication should be available to treat such a complication.

Hepatotoxicity

Transient elevations of liver enzymes, espe-cially SGOT, as well as bilirubin, have been reported to be associated with cisplatin administration at the recommended doses.

Other Events

Cardiac abnormalities, hiccups, elevated serum amylase, rash, alopecia, malaise, asthe-nia, and dehydration have been reported.

nia, and dehydration have been reported. Local soft tissue toxicity has been reported following extravasation of cisplatin. Severity of the local tissue toxicity appears to be related to the concentration of the cisplatin solution. Infusion of solutions with a cisplatin concentra-tion greater than 0.5 mg/mL may result in tissue cellulitis, fibrosis, necrosis, pain, edema, and enthema erythema.

OVERDOSAGE: Caution should be exercised to prevent inadvertent overdosage with cisplatin. Acute overdosage with this drug may result in kidney failure, liver failure, deafness, ocular toxicity (including detachment of the retina), significant myelosuppression, intractable nau-sea and vomiting and/or neuritis. In addition, death can occur following overdosage. No proven antidotes have been established for cisplatin overdosage. Hemodialysis, even when initiated four hours after the overdos-age, appears to have little effect on removing

age, appears to have little effect on removing platinum from the body because of cisplatin's

rapid and high degree of protein binding. Management of overdosage should include general supportive measures to sustain the patient through any period of toxicity that may . occur

DOSAGE AND ADMINISTRATION:

Cisplatin is administered by slow intrave-nous infusion. CISPLATIN SHOULD NOT BE GIVEN BY RAPID INTRAVENOUS INJECTION. Note: Needles or intravenous sets contain-ing aluminum parts that may come in contact with cisplatin should not be used for preparation or administration. Aluminum reacts with cisplatin, causing precipitate formation and a loss of potency.

Metastatic Testicular Tumors

The usual cisplatin dose for the treatment of testicular cancer in combination with other approved chemotherapeutic agents is 20 mg/m² IV daily for 5 days per cycle.

Metastatic Ovarian Tumors The usual cisplatin dose for the treatment of metastatic ovarian tumors in combination with

cyclophosphamide is 75 to 100 mg/m² IV per cyclophosphamide is 75 to 100 mg/m² IV per cycle once every 4 weeks (DAY 1). The dose of cyclophosphamide when used in combination with cisplatin is 600 mg/m² IV once every 4 weeks (DAY 1).

For directions for the administration of cyclophosphamide, refer to the cyclophosphamide package insert.

In combination therapy, cisplatin and cyclo-

phosphamide are administered sequentially. As a single agent, cisplatin should be admini-stered at a dose of 100 mg/m² IV per cycle once every 4 weeks.

Advanced Bladder Cancer Cisplatin should be administered as a single agent at a dose of 50 to 70 mg/m² IV per cycle once every 3 to 4 weeks depending on the extent of prior exposure to radiation therapy and/or prior chemotherapy. For heavily pre-treated patients an initial dose of 50 mg/m² per cycle repeated every 4 weeks is recommended.

All Patients

All Patients Pretreatment hydration with 1 to 2 liters of fluid infused for 8 to 12 hours prior to a cisplatin dose is recommended. The drug is then diluted in 2 liters of 5% Dextrose in 1/2 or 1/3 normal saline containing 37.5 g of mannitol, and infused over a 6- to 8-hour period. If diluted solution is not to be used within 6 hours, protect solution from light. Do not dilute cisplatin in just 5% Dextrose Injection. Adequate hydration and urinary output must be maintained during the following 24 hours.

A repeat course of cisplatin should not be A repeat course of cisplatin should not be given until the serum creatinine is below 1.5 mg/100 mL, and/or the BUN is below 25 mg/100 mL. A repeat course should not be given until circulating blood elements are at an acceptable level (platelets $\geq 100,000$ /mm³, WBC $\geq 4,000$ /mm³). Subsequent doses of cis-platin should not be given until an audiometric analysis indicates that auditory acuity is within normal limits.

Preparation of Intravenous Solutions Preparation Precautions Caution should be exercised in handling the

Caution should be exercised in handling the aqueous solution. Procedures for proper hand-ling and disposal of anticancer drugs should be utilized. Several guidelines on this subject have been published.¹⁴ To minimize the risk of dermal exposure, always wear impervious gloves when handling vials and IV sets containing cisplatin. Skin reactions associated with accidental exposure to cisplatin may occur. The use of gloves is recommended. If cisplatin contacts the skin or mucosa, immediately and thoroughly wash the skin with soap and water and flush the mucosa with water. More information is available in the references listed below.

Instructions for Preparation The aqueous solution should be used intra-venously only and should be administered by IV infusion over a 6- to 8-hour period (see DOSAGE AND ADMINISTRATION).

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever

NOTE TO PHARMACIST: Exercise cau-tion to prevent inadvertent cisplatin overdos-age. Please call prescriber if dose is greater than 100 mg/m² per cycle. Aluminum and

flip-off seal of vial have been imprinted with the following statement:

CALL DR. IF DOSE >100 MG/M²/CYCLE.

Stability

Cisplatin is a sterile, multiple dose vial without preservatives

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Do not refrigerate. Protect unopened container from light.

The cisplatin remaining in the amber vial following initial entry is stable for 28 days protected from light or for 7 days under fluorescent room light.

HOW SUPPLIED:

CISplatin Injection (1 mg/mL) is supplied as follows:

No.	NDC No.	Strength	Fill Volume
100351	63323-103-51	50 mg per 50 mL (1 mg per mL)	50 mL fill in 50 mL vial.
100365	63323-103-65	100 mg per 100 mL (1 mg per mL)	100 mL fill in 100 mL vial.
100364	63323-103-64	200 mg per 200 mL (1 mg per mL)	200 mL fill in 200 mL vial.

The above products are multiple dose vials packaged individually.

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Do not refrigerate. Protect from light.

The container closure is not made with natural rubber latex.

- REFERENCES: 1. NIOSH Alert: Preventing occupational expo-sures 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.
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45628G Revised: July 2015