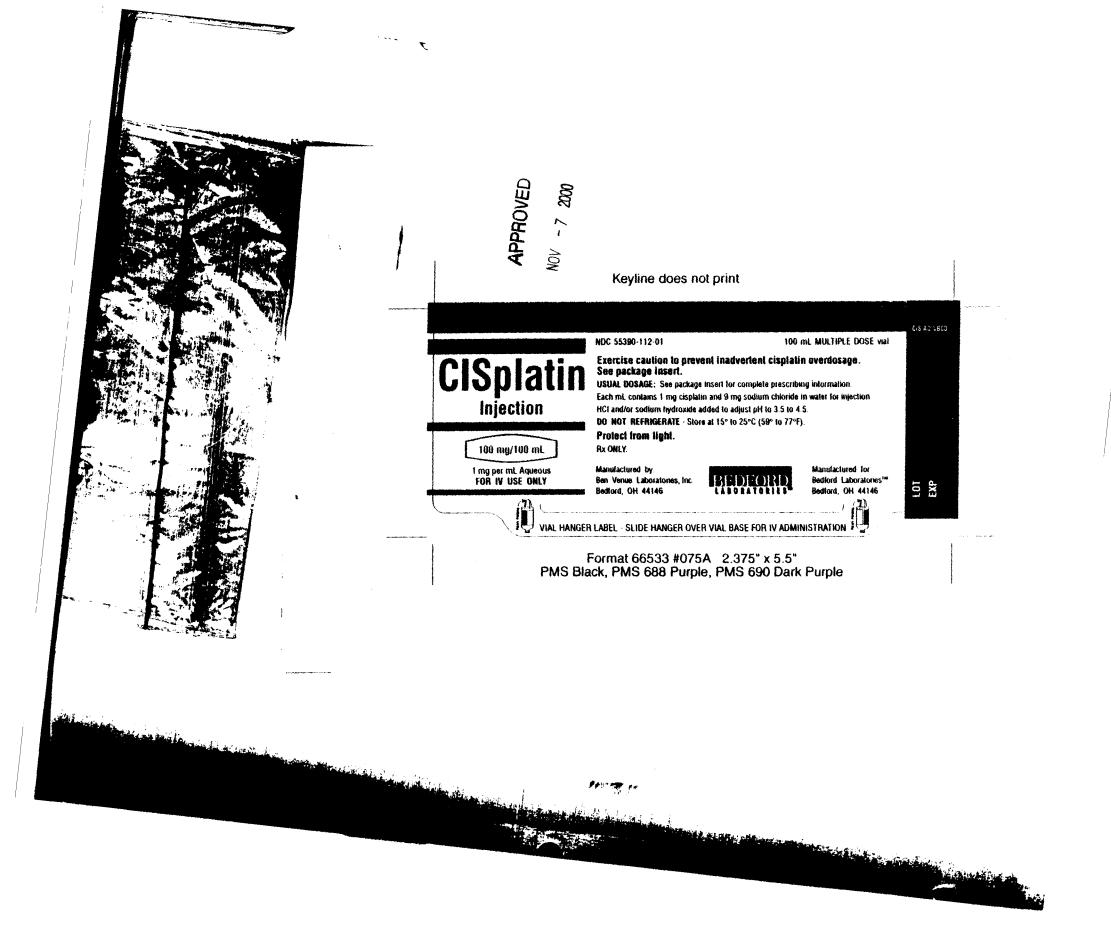
CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 75-036

APPROVED DRAFT LABELING



Note: Keyline does not print.

GISplatint doses greater than 196 mg/ms e every 3 to 4 weeks are rarely used: See package insert.

injection



FOR IV USE ONLY

1 mg/mL Aqueous

NDC 55390-112-01

100 mL MULTIPLE DOSE VIAL

USUAL DOSAGE: See package insert. Each mL contains 1 mg cisplatin and 9 mg sodium chloride in water for injection. HC and/or sodium hydroxide added to adjust pH to 3.5 to 4.5.

Store at 15° to 25°C (59° to 77°F).

Protect from light. DO NOT REFRIGERATE. STERILE SOLUTION FOR INTRAVENOUS USE. Rx ONLY.

NOV - 7 200**0**

Manufactured for: Bedford Laboratories™ Bedford, OH 44146

Ben Venue Labs, inc. Bedford, OH 44148

Manufactured by:

CIS ALL VIGILA

Note: Keyline does not print.



injection

50 mg/50 mL

FOR IV USE ONLY

1 mg/mL Aqueous

NDC 55390-112-00

50 mL MULTIPLE DOSE VIAL

USUAL DOSAGE: See package insert.

Each mL contains 1 mg cisplatin and 9 mg F sodium chloride in water for injection. HCl and/or sodium hydroxide added to adjust pH to 3.5 to 4.5.

Store at 15° to 25°C (59° to 77°F).

Protect from light. DO NOT REFRIGERATE. STERILE SOLUTION FOR INTRAVENOUS USE. Rx ONLY.

Manufactured for: Bedford Laboratories™ Bedford, OH 44146

Manufactured by: Ben Venue Labs, inc. Bedford, OH 44146

NOTE: Keylines do not print.

CISplatin SAFETY STICKERS	April 100 -	SAFETY STICKER INSTRUCTIONS: 1. Adhere one strip of three stickers to the drug container. 2. Pharmacist enter on all three stickers the total dose of CISplatin in the drug container. 3. (A) Peel off bottom state, (B) Initial, and (C) Apply to pharmacy record. 4. Inform nursing staff to: (A) Inital remaining stickers, (B) Peel off middle sticker, and (C) Apply to patient record limitedistration. 5. Top sticker should stay with drug container.	SAFETY STICKER INSTRUCTIONS: 1. Adhere one strip of three stickers to the drug container. 2. Pharmacist enter on all three stickers the total dose of CISplatin in the drug container. 3. (A) Peel off bottom sticker, (B) initial, and (C) Apply to pharmacy record. 4. Inform aursing staff to: (A) Inital remaining stickers, (B) Peel off middle sticker, and (C) Apply to patient record intendiately prior to administration. 5. Top sticker should stay with drug container.	SAFETY STICKER INSTRUCTIONS: 1. Adhere one strip of three stickers to the drug container. 2. Pharmacist enter on all three stickers the total dose of CISplatin in the drug container. 3. (A) Peel off boltom sticker, (B) Initial, and (C) Apply to pharmacy record. 4. Inform nursing staff to: (A) Inital remaining stickers, (B) Peel off middle sticker, and (C) Apply to patient record immediately prior to administration. 5. Top sticker should stay with drug container.
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CISPLATIN INJECTION

Rx OMLY.



WARNINGS

Cisplatin 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 diagnostic and resement facilities are readily available.

Cumulative renal toxicity associated with cisptatin is severe. Other major dose-related toxicities are myelosuppression, neusea, and vorniting.

Otoloxicity, which may be more pronounced in children, and is manifested by blookins, and/or loss of high frequency hearing and occasionally dealness, is significant.

Anaphylactic-like reactions to cisplatin have been reported. Facial edoma, breightcoenstriction, tachycardia, and hypotension may occur within minutes of cisplatin administration. Epimephylne, conticostallada, and antihistamines have been effectively amployed to alleviate symptoms (see WARNIMISS and ADVERSE REACTIONIE sections).

Exercise courten to prevent inequentent displatin eventure. Does greater than 100 mg/m//cycin once every 3 to 4 weeks are rarely used. Care must be taken to avoid inadvertent displatin eventues due to confusion with carboplatin or prescribing practices that fall to differentiate daily doses from total dose per cycls.

DESCRIPTION

Cisptatin (cis-disarramendicatoropistinum) is a heavy metal complex containing a central atom of platinum surrounded by two chloride atoms and two ammonts molecules in the cis position. It is a white powder with the molecular formula PICI2/EgH2, and a molecular weight of 300 05. It is soluble in water or saline at 1 mg/mL and in dissulflyflormemide at 24 mg/mL. It has a melting point of 207°C.



Cisplatin injection is a sterile aqueous solution, available in 50 and 100 mit. multiple dose vials, each mit. containing 1 mg of cisplatin and 9 mg sodium chloride in water for injection. IAC and/or sodium byteologic added to adjust all to 3.5 to 4.5.

CLINICAL PHARMACOLOGY

Plasma concentrations of the parent compound, cisplatin, decay monoexponentially with a half-life of about 20 to 30 minutes following bolus administration of 50 or 100 mg/m² doses. Monexponential decay and plasma half-lives of about 0.5 hour are also seen following two hour or seven hour influsions of 100 mg/m². After the tatler, the total-body clearances and volumes of distribution at steady-state for clapitatin are about 15 to 16 L/h/m² and 11 to 12 L/m².

Due to its unique chemical structure, the chlorine atoms of cisplatin are more subject to chemical displacement reactions by nucleophiles, such as water or sulfryctryl groups, then to enzyme-catalyzed metabolism. At physiological get in the presence of 2 Hall MacK, the predominant molecular species are cisplatin and monohydroxymonechiero ci-platimum publishment, (ii) in nearly equal conventrations. The latter, combined with the possible direct displacement of the chlorine atoms by sulflydryl 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 1.3 after a doze of 100 matrix.

Cisplatin does not undergo the instantaneous and reversible binding to plasma proteins that is characteristic of normal drug-protein binding. However, the platinum from cisplatin, but not cisplatin itself, becomes bound to several plasma protein including allumin, transferrin, and general globulin. Three hours alter a bours injection and two hours after the end of a three-hour infesion, 90% of the plasma platinum is protein bound. The complexes between allumin 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 store.

Following displatin doses of 20 to 120 mg/m², the concentrations of platinum are highest in liver, prostate, and kidney, somewhat lower in bladder, muscin, testicle, pencreas, and splace and lowest in bowel, asternal, learn, lung, cordenen, and occededum. Platinum is present in tissues for as long as 180 days after the last advenistration. With the exception of intracerebral luwers, platinum concentrations in tumors are generally somewhat lower than the concentrations in the organ where the tumor is located. Different mustatic sizes in the same patient may have different platinum concentrations. Hapatic mutasizes 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 cisptatin and decline in a highest; mumor with a terminal half-file of 150 to 47 dest.

Over a dose range of 40 to 140 mg capitalnym? given as a below injection or as influsions varying in length from 1 hour to 24 hours, from 10% to about 40% of the administrated platinum is exceeded in the wine in 24 hours. Over five days fellowing administration of 00 to 100 mg/m² doses given as rapid, 2 to 3 hour, or 4 to 8 hour injections, a mean of 35% to 51% of the dosed platinum is succreted in the injection. Shafter mean urinary recoveries of platinum 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 administration is excreted beyond 24 hours post-influsion and most of the platinum excreted in the erins 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 claptatin with urine from healthy subjects, except that the propertions are different.

The parent compound, dispitatin, is excreted in the wrine and accounts for 13% to 17% of the dose excreted within one hour after administration of 50 mg/m². The mean renal clearance of dispitatin exceeds creatinine clearance and is 62 and 50 mL/win/m² following administration of 100 mg/m² as 2 hour or 6 to 7 hour influsions: respectively:

The renal clearance of free (ultrafilterable) plottinum also exceeds the glomerular filtration rate indicating that dispitation or other plottinum-containing molecules are actively secreted by the lidelays. The foral clearance of free platinum is nonlinear and variable and is dependent on dose, unline flow rate, and individual variability in the entert of active secretion of possible labular readstroption.

There is a potential for accumulation of ultrafillerable platinum plasma concentrations whenever displatin 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 bite and large intestine after administration of cisptatin, the focal excretion of platinum appears to be insignificant



INDICATIONS AND USAGE

Olipiatin injection is indicated as therapy to be employed as follows:

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

Meteriatic Overien Temers - In established combination therapy with other approved chemotherapeutic agents in patients with metastatic ovarian temers who have already received appropriate surgical anglor radiotherapeutic procedures. An established combination consists of displatin and cyclophosphemide. Cisplatin, as a single agent, is indicated as secondary therapy in patients with metastatic ovarian tumors refractory to standard chemotherapy who litter and previously received displatin therapy.

Advanced Bladder Censor - Cisplatin is indicated as a single agent for patients with transitional cell bladder cancer which is no longer amenable to local treatments such as surgery and/or radiotherapy.

CONTRAINDICATIONS

Cisplatin is contraindicated in patients with precisting renal impairment. Cisplatin should not be employed in myelosuppressed patients, or patients with hearing broatment.

Cisplatin is contraindicated in patients with a history of allergic reactions to displatin or other platinum-containing compounds.

WARNINGS

Coptain produces cumulative rephrotoxicity which is potentiated by animoglycesids antiblotics. The serum creatinine, BUM, creatinine clearance, and magnesium, sodium, potassium, and calcium levels should be measured prior in initiating therapy, and prior to each subsequent course. At the recommended docase, citigatine, should not be given more frequently than once every 3 to 4 weeks (see ADMERSE REACHORS section).

There are reports of severe neuropathies in patients in whom regimens are employed using higher doses of displatin or greater dose frequencies than shose recommended. These neuropathies may be prevensible and are seen as paresthesias in a stocking-glove distribution, areflexia, and loss of proprocessions and whatery sensation.

Loss of motor function has also been reported.

Anaphylictic-title 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, corticosteriods, and antihistamines.

Since electricity of displatin is currelative, audiometric testing should be performed prior to initiating therapy and prior to each subsequent dose of drue (see ADVERGE REACTIONS section).

Cispetatin can cause fetal harm when administered to a program! women. Cispetatin is multigenic in beclaris and produces chromosome aborations in animal calls in its see culture, in mice cispletin is trained and membryoloxic. If this drug is used during programory or if the patient becomes programs when the patient should be apprised of the potential heard to the fature. Patients should be advised to avoid becoming programs.

The carcinogenic effect of cisplatin was shulled in 8D IX rats. Cisplatin was administered i.p. to 50 BD IX rats for 3 weeks, 3 x 1 mg/kg body weight per creat. Four hundred and 88y-five days after the first application, 33 animals died, 13 of them related to malignancies: 12 leukemiss and 1 renal fibrossment.

The development of acute feuternia coincident with the use of cisplatin has rarely been reported in humans. In these reports, cisplatin was generally given in combination with other feuternogenic agents.

PRECAUTIONS

Peripheral blood counts should be monitored weekly. Liver function should be monitored periodically. Neurologic examination should also be performed regularly (see ABVERGE REACTIONS section).

Drug leteractions - Plasma levels of anticonvelsant agents may become subtherapeutic during cisptatin therapy.

in a randomized trial in advanced overlan cancer, response duration was adversely affected when pyridoxine was used in combination with altretamine (hexamethylmetemine) and classistin."

Corcinegenesis, Mulegenesis, Impairment of Fertility - see WARMINGS section.

Prognancy: Torologenic Effects, Prognancy Category B - see WARNINGS section.

Number Mathers - Classiatin has been reported to be found in human milk; patients receiving displatin should not breast feed.

Pediable See - Salety and effectiveness in pediatric patients have not been established

ADVERSE REACTIONS

Rephretasticity - Dose-related and cumulative renal insufficiency is the major dose-limiting toxicity of cisplatin. Renal toxicity has been noted in 29% to 30% of patients treated with a single dose of 50 mg/m². It is first noted during the sibcond week after a dose and is manifested by elevations in BUN and creativities, serum unit acide and/or a ducrease in creativine clearance. Renal texticity becomes every preleased and severe with repeated coeffies of the drug. Renal function must return to seremit before another dose of displatin one be given.

impairment of renal function has been appociated with renal behalfer durange. The administration of cisptatin using a 6- to 8- hour infusion with intravenous hydration, and manufal has been used to reduce rephrotoxicity. However, renal toxicity still can occur after utilization of these procedures

Obstantistly - Clinossicity has been observed in up to 31% of patients treated with a single dose of cispitatin 50 mg/m², and is manifested by tinnitus and/or hearing loss in the high frequency range (4,000 to 8,000 h2). Decreased ability to hear normal conversational iones may occur occasionally between the initial dose of cispitatin lass been reported rarely. Clinosic effects may be more severe in children receiving cispitatin. Hearing loss can be unitateral or initiating and tends to become more frequent and severe with repeated doses. Citoloxicity may be enhanced with prior or simultaneous created irredistion. It is unclear whether cispitatin induced obtavicity is eversible. Clinosic effects may be related to the peak plasma concentration of cispitatin. Careful impulsoring of audiomatry should be performed prior to initiation of therapy and prior to subsequent doses of cispitatin.

Vestibular terricity has also been reported.

Ototoxicity may become more severe in patients being treated with other drugs with nephrotoxic potential

Homototogic - Myelosuppression occurs in 25% to 30% of patients treated with claptatin. The nadars in circulating platetets and teukocytes occur between days 1§ to 2,3 (agong 2,5 to 45) with most patients recovering by day 39 (range 13 to 62). Leukopenia and thrombocytopenia are more pronounced at highly dosed (-50 mg/m²). Anemia (decrease of 2 g hemoglobin/100 mt.) occurs at approximately the same frequency and with the same trings as iguilappenia and thrombocytopenia. Fever and intections have also been reported in patients with neutropenia.

in addition to anomia secondary to myelosuppression, a Coombs' positive hemolytic anomia has been reported. In the presence of cisplatin hemolytic anomia, 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 feuternia coincident with the use of cisplatin has rarely been reported in humans. In these reports, cisplatin was generally





given in combination with other feukemogenic agents

Gestretetestinal - Marked nausea and vormiting occur in almost all patients treated with displatin, and are occasionally so severe that the drug must be discontinued. Nausea and vormiting issually begin within 1 to 4 hours after treatment and lest up to 24 hours. Various degrees of vorniting, nausea and/or anotests may persist for up to 1 under after treatment.

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

Diarrhea has also been recorded.

OTHER TOXICITIES

Vascular toxicities coincident with the use of cisptain in combination with other antineoplastic agents have been reported rarely. The events are clinically heterogeneous and may include myocardial infarction, cerebrovasciplar accident, thrombotic microanologistry (HUS), or cerebral arterials. Various mechanisms have been proposed for these vascular complications. There are also reports of Raynaud's phenomenon occurring in putents treated with the combination of bleomycin, visiblastine with or without displaint. It has been suggested that hypomagnesemia developing coincident with the use of cisptalin may be an added, altinough not essential, factor associated with this event. However, it is currently unknown if the cause of Raynaud's phenomenon in these cases is the disease, underlying vascular conformace, bleomycin, winblastine, hypomagnesemia, or a combination of any of these factors.

Some Electrolyte Disterbances - Hypomagnesansia, hypocalcamia, hypomagnesia, hypomagnesia, and hypophosphatemia have been reported to occur in patients treated with cisptatin and are probably repeal to renal behalfs demage. Tetany has occasionally been reported in those patients with hypocalcamia and hypomagnesemis. Generally, narmed serum electrolyte basis are restored by administering supplemental electrolytes and discontinuing cisptatin.

inappropriate antichuretic hormone syndrome has also been toported

threamsteamia - Noneturicamia has been reported to occur at approximately the same frequency as the increases in BUN and serum creatming.

it is more pronounced after doses greater than 50 mg/m², and peak levels of wit acid generally occur between 3 to 5 days after the dose. Altopurinol therapy for hyperwisemia effectively reduces wis acid levels.

Idearchancing (see WARNINGS section) - Neurotoxicity, usually characterized by peripheral neuropathies, has been reported. The neuropathies usually occur after prolonged therapy (4 to 7 Rearths); however, neurologic symptoms have been reported to occur after a single dose. Although symptoms and signs of deptate, neuropathy usually develop during treatment, symptoms of neuropathy may begin 3 to 8 weeks after the fact dose of displatin, although this is rare. Cisplatin therapy should be discontinued when the symptoms are first observed. The neuropathy, however, may propuss further even after stopping treatment. Preteringly evidence suggests peripheral appropriate may be inversible in some patients.

Chermitie's sion, dorsal column invelopative and autonomic repropative have also been reported.

Loss of taste and seizures have also been reported

Muscle cramps, defined as localized, painful, involuntary sheletal muscle contractions of sudden onset and short duration, have been reported and were usually associated in patients receiving a retatively high cumulative dose of cisplatin and with a retatively advanced symptomatic stage of perpindrat muscless and the property of the

Doubler Testicity - Optic neurits, papillederia, and cerebral blindness have been reported intrequently in patients receiving standard recommended doses of classials. Improvement and/or total recovery usually occurs after discontinuing classials. Starteds with or without manuful have been used; hownext, efficacy has set from certaintand.

Blurred vision and aftered color perception have been reported after the use of regimens with higher doses of citigitatin or greater dose frequencies than those recommended in the purpage insert. The aftered color perception members as a loss of color discrimination, particularly in the blue-yellow axis. The only finding on burdancember issues is frequently returned attention about the merceller area.

Acaphylastic-title Resistens - Anaphylactic-title reactions have been occasionally reported in patients previously exposed to cisplatin. The reactions consist of facial edeam, wheeling stabycardia, and hypotession within a law minutes of drug administration. Reactions may be controlled by intraventous opinegatine with controlled and/or antificialments as indicated. Patients receiving closest sold be observed cavefully for possible anaphylactic-tile reactions and supporting endoment and medication should be available to frest such a complication.

Happeletexicity - Transient elevations of their enzymes, especially SGOT, as well as billruble, have been reported to be associated with cispiatin administration at the recommended deeps.

Other Events - Other contribes reported to occur infrequently are cardiac abnormalities, hiccups, elevated serum amylese, and rash. Alopacia, ambise, and astheris have been reported as part of postmarketing surveillance.

Local soft tissue texicity has rarely been reported following entransation of cisplatin. Severity of the local tissue toxicity appears to be related to the concentration of the cisplatin solution. Influeion of solutions with a clapitalin concentration greater than 0.5 mg/mi. may result in tissue codulitie, tiberois, and recreass.

OVERDOSAGE

Contion should be exampled to prevent innovertent eventerage with deptation. Acute overdosage with this drug may result in ludney failure, liver failure, deathess, occurs fearing, including detachment of the relina), significant styleosuppression, intractable neurons and vorming and/or neurities in addition, death can occur following overdentage.

No proven antidotes have been established for cisplate overdosage. Hemodialysis, even when initiated lour hours after the overdosage, appears to lave little effect on removing plateaum from the body becaute of cisplatinis registrated high degree of protein blading. Management of overdosage should include general supportive measures to sustain the patient through any period of fouristly that may occur.

DOSAGE AND ADMINISTRATION

Hole: Needles or labyreasus sets containing aluminum park that may come in contact with staylistic should not be used for proparation or admin introduce. Aluminum recein with circulatio, couring proclated introduce and a loss of polyage.

Metantatic Testicular Tumers - The usual citybatin dose for the treatment of testicular cancer in combination with other approved chemotherapeutic agents is 20 mg/m² fv daily for 5 days per cycle.

Metastatic Ovarian Tumers - The usual displatin dose for the treatment of metastatic ovarian tumors in combination with cyclophospharisde is 75 to 100 mg/m² Nr per cycle once every low weeks (DAY 1).¹²

The dose of cyclophosphemide when used in combination with displatin is 600 mg/m² IV once every four weeks (DAY 1).13

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

in combination therapy, displatin and cyclophospharinde are administered sequentially

As a single agent, displatin should be administered at a dose of 100 mg/mf IV per cycle once every four weeks.

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

Pretreatment hydration with 1 to 2 liters of fluid inflused for 8 to 12 hours prior to a cispitatin duse is recommended. The drug is their divided in 2 liters of 5% Deutrose in 172 or 1/3 normal salms containing 37.5 g of mannitol, and inflused over a 6- to 8- hour period. If divided solution is not to be used within 6 hours, protect solution from light. Do not difute cispitatin in just 5% Deutrose Injection. Adequate hydration and urinary output must be maintained during the following 24 hours.

A repeat course of displatan should not be given until the strum creatiums is below 1.5 mg/100 mL, and/or the BUM is below 25 mg/100 mL. A repeat course should not be given until circulating blood elements are at an acceptable level (platelets 2 180,000/mm², WBC 2 4,800/mm²). Subsequent doses of displatan should not be given until an audiometric analysis indicates that audiony accepts is within notal times.

As with other potentially toxic compounds, caution should be exercised in handling the aqueous solution. Skin reactions associated with accidental exposure to explain may occur. The use of gloves is recommended. If displain contacts the skin or mucosa, intrindicately and thioroughly wash the skin with soan and water and lists the mucosa with water.

The aqueous solution should be used intravenously only and should be administered by IV infusion over a 6- to 8- hour period

NOTE TO THE PHARMACIST: Exercise caution to prevent inadvertent cispitatin overdosage. Please call prescriber if dose greater than 100 mg/m² per cycle. Aluminum cap and litip-oil seal of vial have been imprinted with the following statement:

CALL DO 16 DOSE-100 MEMBERS YOUR

STABILITY

Cisplatin Injection is a sterile, multidose vial without preservatives.

Store at 15" to 25°C (59° to 77°F). Do not retrigorate. Protect enoponed container from light

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

Procedures for proper handling and disposal of anticancer drugs should be considered. Several guidelines on this subject have been published: "
There is no general agreement that all of the procedures recommended in the guidelines are necessary or appropriate.

HOW SUPPLIED

Cisplatin Injection is supplied as follows:

NOC \$5390-112-00 - Each amber vial contains 1 mg/mt; 100 mg/100 mt. MULTIPLE DOSE vial of cisplatin.

NDC 66388-112-01 - Each armer vial contains 1 mg/mL; 50 mg/50 mL MULTIPLE DOSE vial of cisplatin.

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