PLATINOL®-AQ (cisplatin injection)

WARNING
PLATINOL®-AQ (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 treatment facilities are readily available.

ment actinues are readily available.

Cumulative renal toxicity associated with PLATINOL-AQ is severe. Other major dose-related toxicities are myelosuppression, nausea, and vomiting. Ototoxicity, which may be more pronounced in children, and is manifested by trinnitus, and/or loss of high frequency hearing and occasionally deafness, is significant.

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

Exercise caution to prevent inadvertent PLATINOL-AQ overdose.

Doses greater than 100 mg/m²/cycle once every 3 to 4 weeks are rarely used. Care must be taken to avoid inadvertent PLATINOL-AQ overdose due to confusion with PARAPLATIN® (carboplatin) or prescribing practices that fail to differentiate daily doses from total dose per cycle.

DESCRIPTION

DESCRIPTIONPLATINOL*-AQ (cisplatin injection) is a clear, colorless, sterile aqueous solution, each mL containing 1 mg cisplatin and 9 mg Sodium Chloride, USP. HCl and/or Sodium Hydroxide is added to adjust pH of the solution. The active ingredient, cisplatin, is a yellow to orange crystalline powder with the molecular formula PtCl₂HsN₂, and a molecular weight of 300.1. 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 monoex-ponentially 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 two hour or seven hour infusions 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/m² and 11

Due to its unique chemical structure, the chlorine atoms of cisplatin are more Due to its unique chemical structure, the chlorine atoms or cispitatin are more subject to chemical displacement reactions by nucleophiles, such as water or sulfhydryl groups, than to enzyme-catalyzed metabolism. At physiological pH in the presence of 0.1M NaCl, the predominant molecular species are cisplatin amonohydroxymonochloro *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 m/m².

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Cisplatin does not undergo the instantaneous and reversible binding to plasma proteins that is characteristic of normal drug-protein binding. How-ever, the platinum from cisplatin, but not cisplatin itself, becomes bound to several plasmam rorteins including albumin, transferrin, and gamma globu-lin. 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 disso-ciate 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. Different 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.

Over a dose range of 40 to 140 mg cisplatin/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 platinum of about 14% to 20% of the dose as 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 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 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 cisplatin 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 administration of 100 mg/m² as 2 hour or 6 to

7 hour infusions, respectively.

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 ultrafilterable platinum plasma con-centrations 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
PLATINOL-AQ (cisplatin injection) is indicated as therapy to be employed

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 PLATINOL-AQ and CYTOXAN® (cyclophosphamide). PLATINOL-AQ, as a single agent, is indicated as secondary therapy in patients with metastatic ovarian tumors rereactory to standard chemotherapy who have not previously received PLATINOL-AQ therapy.

Advanced Bladder Cancer: PLATINOL-AQ 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

ATINOL-AQ is contraindicated in patients with preexisting renal impairment. PLATINOL-AQ should not be employed in myelosuppressed patients, or patients with hearing impairment.

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

WARNINGS

PLATINOL-AQ produces cumulative nephrotoxicity which is potentiated by aminoglycoside antibiotics. The serum creatinine, BUN, creatinine clearance, and magnesium, sodium, potassium, and calcium levels should be measured

and magnesium, sodium, potassium, and calcium levels should be measured prior to initiating therapy, and prior to each subsequent course. At the recommended dosage, PLATINOL-AQ should not be given more frequently than once every 3 to 4 weeks (see ADVERSE REACTIONS).

There are reports of severe neuropathies in patients in whom regimens are employed using higher doses of PLATINOL-AQ or greater dose frequencies than those recommended. These neuropathies may be irreversible and are seen as paresthesias in a stocking-glove distribution, areflexia, and loss of proprioception and vibratory sensation.

Loss of motor function has also been reported

Anaphylactic-like reactions to PLATINOL-AQ have been reported. These reactions have occurred within minutes of administration to patients with prior exposure to PLATINOL-AQ, and have been alleviated by administration of epinephrine, corticosteroids, and antihistamines.

Since ototoxicity of PLATINOL-AQ is cumulative, audiometric testing should be performed prior to initiating therapy and prior to each subsequent dose of drug (see **ADVERSE REACTIONS**).

PLATINOL-AQ can cause fetal harm when administered to a pregnant woman.

PLATINOL-AG is mutagenic in bacteria and produces chromosome aberrations in animal cells in tissue culture. In mice PLATINOL-AG is teratogenic and embryotoxic. If this drug is used during pregnancy or if the patient becomes preg-nant while taking this drug, the patient should be apprised of the potential haz-ard to the fetus. Patients should be advised to avoid becoming pregnant.

The carcinogenic effect of PLATINOL-AQ was studied in BD IX rats. PLATINOL-AQ was administered 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 applica-tion, 33 animals died, 13 of them related to malignancies: 12 leukemias and

1 renal fibrosarcoma.

The development of acute leukemia coincident with the use of PLATINOL-AQ has rarely been reported in humans. In these reports, PLATINOL-AQ was generally given in combination with other leukemogenic agents.

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 become subtherapeutic during cisplatin therapy.

In a randomized trial in advanced ovarian cancer, response duration was ad-

versely affected when pyridoxine was used in combination with altretamine (hexamethylmelamine) and PLATINOL-AQ.

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 PLATINOL-AQ should not breast feed.

Pediatric Use: Safety and effectiveness in pediatric patients have not

ADVERSE REACTIONS

Nephrotoxicity: Dose-related and cumulative renal insufficiency is the major dose-limiting toxicity of PLATINOL-AQ. 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 creatinine clearance. Reand toxicity becomes more prolonged and severe with repeated courses of the drug. Renal function must return to normal before another dose of PLATINOL-AQ can be given.

Impairment of renal function has been associated with renal tubular dam-

age. The administration of PLATINOL-AQ 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.

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Ototoxicity; Ototoxicity has been observed in up to 31% of patients treated with a single dose of PLATINOL-AQ 50 mg/m², and is manifested by tinnitus and/or hearing loss in the high frequency range (4,000 to 8,000 Hz). Decreased ability to hear normal conversational tones may occur occasionally. Deafness after the initial dose of PLATINOL-AQ has been reported rarely. Ototoxic effects may be more severe in children receiving PLATINOL-AQ. Hearing loss can be unilateral or bilateral and tends to become more frequent and severe with repeated doses. Ototoxicity may be enhanced with prior or simultaneous cranial irradiation. It is unclear whether PLATINOL-AQ induced ototoxicity is reversible. Ototoxic effects may be related to the peak plasma concentration of PLATINOL-AQ. Careful monitoring of audiometry should be performed prior to initiation of therapy and prior to subsequent doses of PLATINOL-AQ.

Vestibular toxicity has also been reported.

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

Hematologic: Myelosuppression occurs in 25% to 30% of patients treated with PLATINOL-AQ. The nadirs in circulating platelets and leukocytes occur between days 18 to 23 (range 7.5 to 45) with most patients recovering by day 39 (range 13 to 62). Leukopenia and thrombocytopenia are more pronounced at higher doses (>50 mg/m²). Anemia (decrease of 2 g hemoglo-bin/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.

In addition to anemia secondary to myelosuppression, a Coombs' posi-

tive 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 coincident with the use of PLATINOL-AQ

has rarely been reported in humans. In these reports, PLATINOL-AQ (cisplatin injection) was generally given in combination with other leukemogenic agents. **Gastrointestinal**: Marked nausea and vomiting occur in almost all patients treated with PLATINOL-AQ, and are occasionally so severe that the drug must be discontinued. Nausea and vomiting usually 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.

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 PLATINOL-AQ therapy.

Diarrhea has also been reported.

OTHER TOXICITIES

Vascular toxicities coincident with the use of PLATINOL-AQ in combination with other antineoplastic agents have been reported rarely. The events are clinically heterogeneous and may include myocardial infarction, cerebrovascular accident, thrombotic microangiopathy (HUS), or cerebral arteritis. Various mechanisms have been proposed for these vascular complications. There are also reports of Ray-naud's phenomenon occurring in patients treated with the combination of bleomycin, vinblastine with or without PLATINOL-AQ, it has been suggested that hypomag-nesemia developing coincident with the use of PLATINOL-AQ may be an added, although not essential, factor associated with this event. However, it is current ly unknown if the cause of Raynaud's phenomenon in these cases is the dis-

ly divinioni i die cause of nayiaud s priedionierioni in diese cases is die dis-ease, underlying vascular compromise, bleomycin, vinblastine, hypomagne-semia, or a combination of any of these factors.

Serum Electrolyte Disturbances: Hypomagnesemia, hypocalcemia, hy-ponatremia, hypokalemia, and hypophosphatemia have been reported to occur in patients treated with PLATINOL-AQ and are probably related to renal tubular damage. Tetany has occasionally been reported in those patients with hypocalcemia and hypomagnesemia. Generally, normal serum electrolyte levels are restored by administering supplemental electrolytes and discontinuing PLATINOL-AQ.

Inappropriate antidiuretic hormone syndrome has also been reported. **Hyperuricemia**: 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 pe-

ripheral 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 PLATINOL-AQ neuropathy usually develop during treatment, symptoms of neuropathy may begin 3 to 8 weeks after the last dose of PLATINOL-AQ, although this is rare. PLATINOL-AQ therapy should be discontinued when the symptoms are first observed. The neuropathy, however, may progress further even after stopping treatment. Preliminary evidence suggests peripheral neuropathy may be irreversible in some patients.

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

Loss of taste and seizures have also been reported.

Muscle cramps, defined as localized, painful, 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 PLATINOL-AQ and with a relatively advanced symptomatic stage of periph eral neuropathy.

Ocular Toxicity: Optic neuritis, papilledema, and cerebral blindness have been reported infrequently in patients receiving standard recommended doses of PLATINOL-AQ. Improvement and/or total recovery usually occurs after discontinuing PLATINOL-AQ. Steroids with or without mannitol have been used; however, efficacy has not been established.

Blurred vision and altered color perception have been reported after the use of regimens with higher doses of PLATINOL-AQ or greater dose frequencies than those 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 occasionally reported in patients previously exposed to PLATINOL-AQ. 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 PLATINOL-AQ should be observed carefully for possible ana-phylactic-like reactions and supportive equipment and medication should be available to treat such a complication.

Hepatotoxicity: Transient elevations of liver enzymes, especially SGOT, as well as bilirubin, have been reported to be associated with PLATINOL-AQ administration at the recommended doses

Other Events: Other toxicities reported to occur infrequently are cardiac abnormalities, hiccups, elevated serum amylase, and rash. Alopecia, malaise,

informatines, incoups, elevated seruin arrivase, and rash. Adopteda, inialise, and asthenia have been reported as part of postmarketing surveillance.

Local soft tissue toxicity has rarely been reported following extravasation of PLATINOL-AC. Severity of the local tissue toxicity appears to be related to the concentration of the PLATINOL-AC solution. Infusion of solutions with a PLATINOL-AC concentration greater than 0.5 mg/mL may result in tissue cellulitis, fibrosis, and necrosis.

OVERDOSAGE

Caution should be exercised to prevent inadvertent overdosage with PLATINOL-AQ. Acute overdosage with this drug may result in kidney failure,

PLATINOL-AQ. Acute overdosage with this drug may result in kidney failure, itiver failure, deafness, ocular toxicity (including detachment of the retina), significant myelosuppression, intractable nausea and vomiting and/or neurits. In addition, death can occur following overdosage.

No proven antidotes have been established for PLATINOL-AQ overdosage. Hemodialysis, even when initiated four hours after the overdosage, appears to have little effect on removing platinum from the body because of PLATINOL-AQ's rapid and high degree of protein binding. Management of overdosage should include agencal supportive measures to sustain the patient through any period. include general supportive measures to sustain the patient through any period of toxicity that may occur.

DOSAGE AND ADMINISTRATION

Note: Needles or intravenous sets containing aluminum parts that may come in contact with PLATINOL-AQ should not be used for preparation or administration. Aluminum reacts with PLATINOL-AQ, causing precipitate formation and a loss of potency.

Metastatic Testicular Tumors: The usual PLATINOL-AQ dose for the treatment of testicular cancer in combination with other approved chemotherapeutic agents is 20 mg/m² l.V. daily for 5 days per cycle.

Metastatic Ovarian Tumors: The usual PLATINOL-AQ dose for the treat-ment of metastatic ovarian tumors in combination with CYTOXAN (cy-clophosphamide) is 75-100 mg/m² I.V. per cycle once every 4 weeks, (Day 1). The dose of CYTOXAN when used in combination with PLATINOL-AQ is 600 mg/m² I.V. once every 4 weeks, (Day 1). For directions for the administration of CYTOXAN, refer to the CYTOXAN package insert.

package insert.

In combination therapy, PLATINOL-AQ and CYTOXAN are administered

sequentially.

As a single agent, PLATINOL-AQ should be administered at a dose of 100 mg/m2 I.V. per cycle once every 4 weeks

Advanced Bladder Cancer: PLATINOL-AQ (cisplatin injection) should be administered as a single agent at a dose of 50-70 mg/m² I.V. per cycle once every 3 to 4 weeks depending on the extent of prior exposure to radiation therapy and/or prior chemotherapy. For heavily pretreated patients an initial dose of 50 mg/m² per cycle repeated every four weeks is recommended.

Pretreatment hydration with 1 to 2 liters of fluid infused for 8 to 12 hours

prior to a PLATINOL-AQ 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 PLATINOL-AQ in just

within 6 hours, protect solution from light. Do not dilute PLATINOL-AU in just 5% Dextrose Injection. Adequate hydration and urinary output must be maintained during the following 24 hours.

A repeat course of PLATINOL-AQ 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 PLATINOL-AQ should not be given until an audiometric analysis indicates that auditonz acuty is within promal limits. dicates that auditory acuity is within normal limits.

As with other potentially toxic compounds, caution should be exercised in

handling the aqueous solution. Skin reactions associated with accidental exposure to cisplatin may occur. The use of gloves is recommended. If PLATINOL-AQ contacts the skin or mucosa, immediately and thoroughly wash the skin with soap and water and flush the mucosa with water.

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

NOTE TO PHARMACIST: Exercise caution to prevent inadvertent PLATINOL-AQ overdosage. Please call prescriber if dose 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.

PLATINOL-AQ is a sterile, multidose vial without preservatives.

Store at 15°C-25°C. Don't 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. Procedures for proper handling and disposal of anticancer 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.

HOW SUPPLIED

PLATINOL®-AQ (cisplatin injection)

NDC 0015-3220-22 – Each multidose vial contains 50 mg of cisplatin

NDC 0015-3221-22 – Each multidose vial contains 100 mg of cisplatin

REFERENCES

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- 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.
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Bristol-Myers Squibb Company Princeton, NJ 08543 U.S.A.

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