CARBOPLATIN

CABOO 450

10 mg/mL (450 mg/45 mL) Solution for Intravenous Infusion



Formulation

Fach mL contains

Product Description

Indications Carboplatin is indicated for the treatment of:

advanced ovarian carcinoma of epithelial origin in:
 first line therapy
 second line therapy, after other treatments have failed.

2. small cell carcino

Posology and Method of Administration

Dosage and Administration:
Carboplatin should be used by the intravenous route only. The recommended dosage of Carboplatin in previously untreated adult patients with normal kidney function, i.e. creatinine clearance > 60 ml/min is 400 mg/m2 as a single short term IV dose administered by a 15 to 60 minutes infusion. Alternatively, the Calvert formula shown below may be used to determine dosage:

administered by a 15 to 60 minutes infusion. Alternatively, the Calvert formula shown below may be used to determine dosage:

Dose (mg) = target AUC (mg/mlx min) x (GFR ml/min + 25)

Note: With the Calvert formula, the total dose of Carboplatin is calculated in mg, not mg/m2.

Therapy should not be repeated until four weeks after the previous Carboplatin course and/or until the neutrophil count is at least 2,000 cells/mm3 and the platelet count is at least 10,000 cells/mm3.

Initial dosage should be reduced by 20-25% in patients with risk factors such as previous myelosuppressive therapy and or poor performance status (ECOG-Zubrod 2-4 or Karnofsky below 80).

Determination of haematologic radir by weekly blood counts during initial courses is recommended for future dosage adjustment and scheduling of carboplatin.

and screeding of Caropitatin.

Needles or intravenous sets containing aluminium parts that may come in contact with carboplatin injection should not be used for preparation or administration. Aluminium reacts with carboplatin injection causing precipitate formation and/or loss of notened.

Dose (mg) = target AUC (mg/ml x min) x [GFR ml/min + 25]			
Target AUC	Planned chemotherapy	Patient treatment status	
5-7mg/ml .min	single agent Carboplatin	Previously untreated	
4-6 mg/ml .min	single agent Carboplatin	Previously treated	
4-6mg/ml .min	Carboplatin plus cyclophosphamide	Previously untreated	

The safety measures for dangerous substances are to be complied with preparation and administration. Preparation must be carried out by personnel who have been trained in the safe use while wearing protective gloves, face mask and protective clothes.

Impaired renal function: In patients with impaired renal function, dosage of carboplatin should be reduced (refer to Calvert formula) and haematological nadirs and

renal function monitored.

Patients with creatinine clearance below 60 ml/min are at increase risk of severe myelosuppression. The frequency of severe leukopenia, raueitis with creamine tearlance below of infinini are at increase insk of severe injectsuppressit neutropenia, or thrombocytopenia has been maintained at about 25% with the following dosage rec Initial Dose (Day 1) and 1-59 mL/min 250 mg/m21.V. 16-40 mL/min 200 mg/m21.V.

Insufficient data exist on the use of carboplatin injection in patients with creatinine of 15 ml/min or less to permit a recommendation for

treatment.
All of the above dosing recommendations apply to the initial course of treatment. Subsequent dosages should be adjusted according to the patient's tolerance and to the acceptable level of myelosuppression.

platin in combination with other myelosuppressive agents requires dosage adjustments according to the regimen

and schedule to be adopted.

<u>Elderly:</u>
In patients of more than 65 years of age, adjustment of the carboplatin dose to the general condition is necessary during the first and the

Pediatric population
There is insufficient information to support a dosage recommendation in the paediatric population.

<u>Dilution and Reconstitution:</u>
The product must be diluted prior to infusion

Contraindications
Carboplatin is contraindicated in:
-Hypersensitivity to the active substance(s)
-patients with severe myelosuppression
-patients with pre-existing severe renal impairment (with creatinine clearance of < 30 ml per minute) unless in the judgment of the
physician and patient, the possible benefits of treatment outweigh the risks

tients with bleeding tumors ncomitant use with yellow fever vaccine

- patients with a history of severe allergic reaction or other platinum containing compounds. Dosage adjustment may allow use in the presence of mild impairment.

Special warnings and precautions for use

Myelosuppression
Myelosuppression as a result of carboplatin treatment is closely related to the renal clearance of the drug. Therefore, in patients with abnormal renal function, or who are receiving concomitant therapy with nephrotoxic drugs, myelosuppression, especially thrombocytopenia, may be more severe and prolonged.

The occurrence, severity and protraction of toxicity is likely to be greater in patients who have received extensive prior treatment with the drug for their disease or with cisplatin, have poor performance status and are advanced in years. Renal function parameters should be assessed prior to, during and after carboplatin therapy lnitial carboplatin dosages in these groups of patients should be appropriately reduced and the effects carefully monitored through frequent blood counts between courses. Myelosuppressive effects may be additive to those of concomitant chemotherapy.

Brose of Concomitant Chemouner apy. Peripheral blood counts (including platelets, white blood cells and haemoglobin) should be followed during and after therapy. Combination therapy with other myelosuppressive drugs may require modification of dosage/timing of schedules in order to minimize additive effects. Carbopialin courses should not, in general, be repeated more frequently than every 4 weeks in order to ensure that the nadir in blood courts has occurred and there has been recovery to a satisfactory level.

has occurred and uneer has been recoverly to a sanistactory level.

Patients with severe and persistant myelosuppression are at high risk of infectious complications including fatal outcomes. If any of these events occurs, carboplatin should be interrupted and dose modification or discontinuation should be considered.

As with other platinum-based drugs, allergic reactions appearing most often during administration may occur and necessitate discontinuation of infusion. Patients should be observed carefully and an appropriate symptomatic treatment (including antihistamines adrenaline and/or glucocorticoids) must also be initiated in such cases. Cross reactions, sometimes fatal, have been reported with all the

The vial stopper contains dry natural rubber (a derivative of latex), which may cause allergic reactions.

In nations with impaired renal function, the effect of carbonlatin on the baemotopoletic system is more pronounced and longer-action than in patients with normal renal function. In this risk group, therapy with carboplatin must be performed with special caut Precautions:
Carboplatin should only be administered under the supervision of a qualified physician who is experienced in the use of chemotherapeutic

agents. Diagnostic and treatment facilities should be readily available for management of therapy and possible complications.

Peripheral blood counts, renal and hepatic function tests should be monitored closely. Blood counts should be performed prior to

nmencement of carboplatin therapy and at weekly intervals thereafter. The drug should be discontinued if abnormal depression of th bone marrow or abnormal renal or hepatic function is seen.

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Leukopenia, neutropenia, and thrombocytopenia are dose-dependent and dose-limiting. Peripheral blood counts should be monitored during carboplatin treatment. This will monitor toxicity and help determine the nadir and recovery of haematological parameters and assist in subsequent dosage adjustments. Median day of nadir is day 21 in patients receiving single agent carboplatin and day 15 in patients receiving carboplatin in combination with other chemotherapeutic agents. In general, single intermittent courses of carboplatin should not be repeated until leukocyte, neutrophil, and platelet counts have returned to normal. Lowest levels of platelets are generally seen between days 14 and 21 of initial therapy. A greater reduction is seen in natients who previously received extensive myelosuppressive udys 14 and 21 of mindar dierapy. A gleater reduction is seen in patients with previously received extensive injectosyptessive chemotherapy. Lowest levels of white cells occur generally between days 14 and 28 of initial therapy. If neutrophil levels fall below 2000 cells/mm3 or platelets are less than 100,000 cells/mm3 then postponement of carboplatin therapy until bone barrow recovery is evident, should be considered. This recovery usually takes 5 to 6 weeks. Transfusions may be necessary and dosage reductions recommended for

Anaemia is frequent and cumulative, however rarely requires a transfusion.

Haemolytic-uraemic syndrome (HUS)

Haemolytic-uraemic syndrome (HUS) is a life-threatening side effect. Carboplatin should be discontinued at the first signs of any

evidence of microangiopathic haemolytic anaemia, such as rapidly falling haemoglobin with concomitant thrombocytopenia, elevation serum bilirubin, serum creatinine, blood urea nitrogen, or LDH. Renal failure may not be reversible with discontinuation of therapy ar dialysis may be required.

Haemolytic anaemia with the presence of serologic drug-induced antibodies has been reported in patients treated with carboplatin. This

event can be fatal.

event can be fatal.

Acute promyelocytic leukaemia and myelodysplastic syndrome (MDS)/acute myeloid leukemia (AML) have been reported years after therapy with carboplatin and other antineoplastic treatments.

Venoocclusive liver disease
Cases of hepatic venoocclusive disease (sinusoidal obstruction syndrome) have been reported, some of which were fatal. Patients should be monitored for signs and symptoms of abnormal liver function or portal hypertension which do not obviously result from liver Tumour lysis syndrome (TLS)

In post marketing experience tumour lysis syndrome (TLS) has been reported in patients following the use of carboplatin alone or in combination with other chemotherapeutic agents. Patient at high risk of TLS, such as patients with high proliferative rate, high tumor burden, and high sensitivity to cytotoxic agents, should be monitored closely and appropriate precaution taken.

Renal toxicity

The incidence and severity of nephrotoxicity may increase in patients who have impaired kidney function before carboplatin treatment. It is not clear whether an appropriate hydration programme might overcome such an effect but dosage reduction or discontinuation of therapy is required in the presence of severe alteration in renal function test. Impairment of renal function is more likely in patients who have previously experienced penhrotoxicity as a result of Cisplatin therapy

Neurologic Toxicity Neurologic toxicity
Although peripheral neurologic toxicity is generally common and mild, limited to paresthesia and decreases in osteotendinous reflexes, its frequency is increased in patients older than 65 years and/or in patients previously treated with cisplatin. Monitoring and neurological examinations should be carried out at regular intervals.

Visual disturbances, including loss of vision, have been reported after the use of carboplatin in doses higher than those recommended in

patients with renal impairment. Vision appears to recover totally or to a significant extent within weeks of stopping these high doses. Reversible Posterior Leukoencephalopathy Syndrome (RPLS)

Cases of Reversible Posterior Leukoencephalopathy Syndrome (RPLS) have been reported in patients receiving carboplatin in combination voses un neversione rusient i Leutwenreginaupuarry Symortome (KPLLS) nave been reported in patients receivingcarboptatin in combination chemotherapy. RPLS is a rare, reversible (after treatment discontinuation), rapidly evolving neurological condition, which can include seizure, hypertension, headache, conflusion, blindness, and other visual and neurological disturbances. Diagnosis of RPLS is based upon confirmation by brain imaging, preferably MRI (Magnetic Resonance Imaging)

In studies involving combination therapy with carboplatin and cyclophosphamide, elderly patients treated with carboplatin were more likely to develop severe thrombocytopenia than younger patients. Because renal function is often decreased in the elderly, renal function should be considered when determining dosage

Auditory defects have been reported during carboplatin therapy. Ototoxicity may be more pronounced in children and is more likely seen in patients previously treated with cisplatin. Cases of hearing loss with a delayed onset have been reported in pediatric patients. A long-term audiometric follow-up in this population is recommended.

Administration of live or live-attenuated vaccines in patients immunocompromised by chemotherapeutic agents including carboplatin may result in serious or fatal infections. Vaccination with a live vaccine should be avoided in patients receiving carboplatin. Killed or inactivated

vaccines may be administered; however, the response to such vaccines may be diminished.

Aluminium containing equipment should not be used during preparation and administration of Carboplatin.

Interaction with other medicinal products and other forms of interaction
Carboplatin may interact with aluminium to form a black precipitate. Needles, syringes, catheters or IV administration sets that contain aluminium parts which may come into contact with carboplatin, should not be used for the preparation or administration of the drug.
Due to the increase of thrombotic risk in cases of furmoral diseases, the use of anticoagulative treatment is frequent. The high intra-individual variability of the coagulabilty during diseases, and the possibility of interaction between oral anticoagulants and anticancer chemotherapy. may require an increase in frequency of INR monitoring if a patient is treated with oral anticoagulants. Concomitant use contraindicated

Concomitant use not recommended - Live attenuated vaccines (except yellow fever): Risk of systemic, possible fatal disease. This is increased in subjects who are already

mmunosuppressed by their underlying disease. Use inactivated vaccine where this exist (poliomyelitis).

Phenytoin, fosphenytoin: Risk of exacerbation of convulsions (resulting from the decrease of phenytoin digestive absorption by the cytotoxic drug), risk of toxicity enhancement or loss of efficacy of the cytotoxic drug (due to increa

Coliciosporin (and by extrapolation tacrollimus and sirollimus): Excessive immunosuppression with risk of lymphoproliferation.

- Concurrent therapy with nephrotoxic drugs or ottoxic drugs such as amino glycosides, vancomycin, capreomycin and diuretics, may increase or exacerbate toxicity, particularly in renal failure patients, due to Carboplatin induced changes in renal clearance.

- Loop diuretics: The concomitant use of carboplatin with loop diuretic should be approached with caution due to the cumulative

Combination therapy with other myelosuppressive agents may require dose changes or rescheduling of doses in order to minimize the

Pregnancy

Carboplatin can cause foetal harm when administered to a pregnant woman. Carboplatin has been shown to be embryotoxic and teratogenic in rats receiving the drug during organogenesis. No controlled studies in pregnant women have been conducted.

Safe use of carboplatin in pregnancy has not been established. Both men and women receiving carboplatin should be informed of the potential risk of adverse effects on reproduction. Women of childbearing potential should be advised to avoid becoming pregnant by using effective contraception and should be tully informed of the potential hazard to the foetus should they become pregnant during carboplatin therapy. Carboplatin should not be used in pregnant women or women of childbearing potential who might become pregnant unless the potential benefits to the mother outweigh the possible risks to the fetus.

ectury of conditions of the condition of condition of the condition of the condition of condition of conditions of several artificine polastics, which makes it difficult to assess the effects of individual conditions.

agents.

Men of sexually mature age treated with carboplatin are advised not to father a child during treatment and up to 6 months afterwards. Male to therapy with carboplatin.

Effects on ability to drive and use machines
No studies of the effects on the ability to drive and use machines have been performed. However, carboplatin may cause nausea, vomiting,
vision abnormalities and ottoxicity; therefore, patients should be warned of the potential effect of these events on the ability to drive or to

uconaure criects
I frequency of adverse reactions reported is based on a cumulative database of 1,893 patients receiving single agent carboplatin ction and post-marketino experience.

injection and post-marketing experience. The list is presented by system organ class, MedDRA preferred term, and frequency using the following frequency categories:

common (>1/100, <1/10)

rare (>1/10,000,<1/1,000)very rare (<1/10,000), not known (cannot be estimated from the available data)

System Organ Class	Frequency	MedDRA Term
leoplasms, benign and malignant and unspecified incl cysts and polyps)	Not known	Treatment related secondary malignancy
nfections and infestations	Common	Infections*
	Not known	Pneumonia
flood and lymphatic system disorders	Very common	Thrombocytopenia, neutropenia, leukopenia, anaemia
	Common	Haemorrhage*
	Not known	Bone marrow failure, haemolytic- uraemic syndrome
	Rare	febrile neutropenia,
mmune system disorders	Common	Hypersensitivity, anaphylactoid type reaction
Metabolism and nutrition disorders	Not known	Dehydration, anorexia, Tumor lysis syndrome
	Rare	hyponatraemia
lervous system disorders	Common	Neuropathy peripheral, paraesthesia, decrease of osteotendinous reflexes, sensory disturbance, dysgeusia
	Not known	Cerebrovascular accident* Reversible Posterior Leukoencephalopathy Syndrome (RPLS).
ye disorders	Common	Visual disturbance (incl. rare cases of loss of vision)
ar and labyrinth disorders	Common	Ototoxicity
Cardiac disorders	Common	Cardiovascular disorder*
	Not known	Cardiac failure*
/ascular disorders	Not known	Embolism*, hypertension, hypotension
Respiratory, thoracic and mediastinal disorders	Common	Respiratory disorder, interstitial lung disease, bronchospasm
Sastrointestinal disorders	Very common	Vomiting, nausea, abdominal pain
	Common	Diarrhoea, constipation, mucous membrane disorder
	Not known	Stomatitis, Pancreatitis,

Skin and subcutaneous tissue disorders	Common	Alopecia, skin disorder
	Not known	Urticaria, rash, erythema, pruritus
Musculoskeletal and connective tissue disorders	Common	Musculoskeletal disorder
Renal and urinary disorders	Common	Urogenital disorder
General disorders and administration site conditions	Common	Asthenia
	Not known	Injection site necrosis, injection site reaction, injection site extravasation, injection site erythema, malaise
Investigations	Very Common	Creatinine renal clearance decreased, blood ura increased, blood alikaline phosphatase increased, aspartate aminotransferase increased, liver function test abnormal, blood sodium decreased, blood potassium decreased, blood calcium decreased, blood magnesium decreased.
	Common	Blood bilirubin increased, blood creatinine increased, blood uric acid increased

* Fatal in <1%, fatal cardiovascular events in <1% included cardiac failure, embolism, and cerebrovascular accident combined.

Blood and lymphatic system disorders

Blood and lymphatic system disorders
Myelosuppression is the dose-imiliting toxicity of carboplatin injection. In patients with normal baseline values, thrombocytopenia
with platelet counts below 50,000/mm3 occurs in 25% of patients, neutropenia with granulocyte counts below 1,000/mm3 in 18% of
patients, and leukopenia with WBC counts below 2,000/mm3 in 14% of patients. The nadir usually occurs on day 21.
Myelosuppression can be worsened by combination of carboplatin injection with other myelosuppressive compounds or forms of

. city is more severe in previously treated patients, in particular in patients previously treated with cisplatin and in patients Myeldoxicity is more severe in previously treated patients, in particular in patients previously deated with cispitatine and in patients with impaired kidney function. Patients with poor performance status have also experienced increased leukopenia and thrombocytopenia. These effects, although usually reversible, have resulted in infectious and hemorrhagic complications in 4% and 5% of patients given carboplatin injection, respectively. These complications have led to death in less than 1% of patients. Anaemia with harmoglobin values below 8g/d has been observed in 15% of patients with normal baseline values. The incidence of

osuppression may be more severe and prolonged in patients with impaired renal function, extensive prior treatment, poor

per formatice status and age above 65.

At maximum tolerated dosages of carboplatin administered as a single agent, thrombocytopenia, with nadir platelet counts of less than 50 x 109/l, occurs in about a third of the patients. The nadir usually occurs between days 14 and 21, with recovery within 35

days from the start of therapy.

Leukopenia has also occurred in approximately 20% of patients but its recovery from the day of nadir (day 14-28) may be slower and usually occurs within 42 days from the start of therapy. Neutropenia with granulocyte counts below 1 x 109/1 occurs in approximately one fifth of patients. Haemoglobin values below 9.5 mg/100ml have been observed in 48% of patients with normal base-line values.

Neoplasms benian, malignant and unspecified (including cysts and polyps)

recipieshis sengit, in aniingiana anii urispecialet (including tysts anii protyts). Secondary acute malignancies after cytostatic combination therapies containing carboplatin have been reported.

Respiratory, thoracic and mediastinal disorders

Wey rare: Pulmonary fibrosis manifested by tightness of the chest and dyspnoea. This should be considered if a pulmonary hypersensitivity state is excluded (see General disorders below) Gastrointestinal disorders

Vomiting occurs in 65% of patients, in one-third of whom it is severe. Nausea occurs in an additional 15%. Previously treated patients vonimity occurs in 16% or patients, in other-line of within its Severe, Natusea occurs in an adulution in 15%, Previously treated when its patient is partially the patient of the patient

Nervous system disorders

Peripheral neuropathy (mainly paresthesias and decrease of osteotendinous reflexes) has occurred in 4% of patients administered carboplatin injection. Patients older than 65 years and patients previously treated with cisplatin, as well as those receiving prolonged treatment with carboplatin injection, appear to be at increased risk.

Clinically significant-sensory disturbances (e. visual disturbances and taste modifications) have occurred in 1% of patients.

Unincary siffment resistively useful to the control of the control

Visual disturbances, including sight loss, are usually associated with high dose therapy in renally impaired patients Ear and labyrinth disorders

very common:
A subclinical decrease in hearing acuity in the high frequency range (4000-8000 Hz), determined by audiogram, occurred in 15% of natients. Very rare cases of hypoacuisia have been reported. Tinnitus was also commonly reported. Hearing loss as a result of cisplatin therapy may give rise to persistent or worsening

symptoms. At higher than recommended doses, in common with other oldoxic agents, clinically significant hearing loss has bee reported to occur in paediatric patients when carboplatin is administered.

Hepatobiliary disorders
Modification of liver function in patients with normal baseline values was observed, including elevation of total bilirubin in 5%, SGOT in 15%, and akaline phosphatase in 24% of patients. These modifications were generally mild and reversible in about one-half the

patients. In a limited series of patients receiving very high dosages of carboplatin injection and autologous bone marrow transplantation,

severe elevation of liver function tests has occurred. Cases of an acute, fulminant liver cell necrosis occured after high-dose administration of carboplatin.

has a some many disorders

When given in usual doses, development of abnormal renal function has been uncommon, despite the fact that carboplatin injection patients, elevation of blood urea nitrogen in 14%, and of uric acid in 5% of patients. These are usually mild and are reversible in about one-half the patients. Creatinine clearance has proven to be the most sensitive renal function measure in patients receiving one-tail the patients. Creatinine creatance has proven to be the index sensitive reliability and indicate in patients received a carboplatin injection. Inverty-seven percent (27%) of patients who have a baseline value of 60 mL/min or greater, experience a reduction in creatinine clearance during carboplatin injection therapy. Imparent of renal function is more likely in patients who have previously vegerienced enphrotoxicity as a result of cisplatin therapy.

Very common: Renal toxicity is usually not dose-limiting in patients receiving carboplatin, nor does it require preventive measures

 $su\acute{c}h as high volume fluid hydration or forced diures is. \\ Common: Renal function impairment, as defined by a decrease in the creatinine clearance below 60 ml/min.$

ions, sometimes fatal, may occur in the minutes following injection of the product: facial oedema, dyspnoea, Anaphylactic-type reactions, sometimes fatal, may occur in the minutes follow tachycardia, low blood pressure, urticaria, anaphylactic shock, bronchospasm Fever with no apparent cause has also been reported.

Skin and subcutaneous tissue disorders

Skin and subcutaneous tissue disorders Erythematous rash, fever and pruritis have been observed. These were reactions similar to those seen after cisplatin therapy but in a few cases no cross-reactivity was present.

Investigations
Decreases in serum sodium, potassium, calcium, and magnesium occur in 29%, 20%, 22%, and 29% of patients, respectively, In particular, cases of early hyponatraemia have been reported. The electrolyte losses are minor and mostly take a course without any

clinical symptoms.

Cardiac disorders
Isolated cases of cardiovascular incidents (cardiac insufficiency, embolism) as well as isolated cases of cerebrovascular accidents

General disorders and administration site conditions
Reactions at the site of injection (burning, pain, reddening, swelling, urticaria, necrosis in connection with extravasation) have been

reported. Fever, chills and mucositis have occasionally been observed.

Hepatobiliary disorders

Very common: The alkaline phosphatase level is increased more frequently than SGOT, SGPT or total bilirubin The majority of these abnormalities regress spontaneously during the course of treatment.

Rare: Severe hepatic dysfunction (including acute liver necrosis) has been reported after administration of higher than

recommended carboplatin dosages. Reporting of suspected adverse reactions Reporting uspected adverse reactions after authorization of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via Yellow Card Scheme; Website: www.mhra.gov.uk/yellowcard.

No overdosage occurred during clinical trials.

Symptoms: Symptoms may include myelosuppression, renal, hepatic and auditory function impairment. Reports of doses up to 1600mg/m2 indicate patients feeling extremely ill with diarrhea and alopecia developing. Use of higher than recommended doses of carboplatin has been associated with loss of vision.

Management: There is no known antidote for carboplatin overdosage. If necessary, however, the patient may need supportive treatment relating to myelosuppression, renal, hepatic and auditory function impairment.

Pharmacodynamic properties
Pharmacotherapeutic group: Ant acotherapeutic group: Antineoplastic agents, Platinum compounds ATC code: LO1X A02

Carboplatin, like Cisplatin, interferes with DNA intrastrand and interstrand crosslinks in cells exposed to the drug. DNA reactivity has een correlated with cytotoxicity. 'aediatric patients: safety and efficacy in children have not been established

on of Carboniatin in man, linear relationships exist between dose and plasma concentrations of total and free ultrafilterable platinum. The area under the plasma concentration versus time curve for total platinum also shows a linear relat with the dose when creatinine clearance > 60 ml/min.

with the dose when creatinine clearance > 60 mi/min.
Repeated dosing during four consecutive days did not produce an accumulation of platinum in plasma. After a 1-hour infusion (20-520 mg/m2), plasma levels of total platinum and free (ultrafilterable) platinum decay biphasically following first order kinetics. For

520 mg/m2), plasma levels of total platinum and free (ultrafilterable) platinum decay biphasically following first order kinetics.For free platinum, the initial phase (it plah) half life is approximately 9 off minutes and the later phase of the tal) all life approximately 6 hours. All free platinum is in the form of carboplatin in the first 4 hours after administration. Carboplatin is excreted primarily by glomerular liftration in urine, with recovery of 65% of a dose within 24 hours. Most of the drug is excreted within the first 6 hours. Approximately 32% of a given dose of carboplatin is excreted unchanged. Protein binding of carboplatin eaches 85-89% within 24 hours of administration, although during the first 4 hours, only up to 29% of the dose is protein bound. Patients with poor renal function may require dosage adjustments due to altered pharmacokinetics of excheolatin for the contraction of the dose is protein bound.

Carboplatin. Clearance has been reported to vary by 3- to 4- fold in paediatric patients. As for adult patients, literature data suggest.

Preclinical safety data

Preclinical satety data
Carboplatin has been shown to be embryotoxic and teratogenic in rats. It is mutagenic in vivo and in vitro and although the carcinogenic potential of Carboplatin has not been studied, compounds with similar mechanisms of action and mutagenicity have been reported to be carcinogenic.

oods. Drugs. Devices, and Cosmetics Act prohibits dispensing without prescription.

For suspected adverse drug reaction, report to the FDA; www.fda.gov.ph. Seek medical attention immediately at the first sign of any

Storage Condition Store at temperatures not exceeding 30°C. Protect from light.

Keen out of reach of children

Solution with precipitate to be discarded

Discard unused portion.

 $\begin{array}{l} \textbf{Availability} \\ 45~\text{mL USP Type I Amber Glass Vial with peach-colored flip-off seal/ (Box of 1's)} \end{array}$

Special precautions for disposal and other handling
Parenterial drugs should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and
container permit. If particular matter is observed, shake and re-inspect. Vials with visible particulate matter should not be used. Handling: Carboplatin should be prepared for administration only by professionals who have been trained in the safe use of chemotherapeutic

Contamination In the event of contact of carboplatin with eves or skin, wash affected area with copious amounts of water or normal saline. A bland cream may be used to treat transient stinging of skin. Medical advice should be sought if the eyes are affected

In the event of a spillage, two operators should put on gloves and mop up the spilled material with a sponge kept for that purpose. In the event of a powder spillage, cover with a cloth and moisten with water before mopping up. Rinse the area twice with water. Put all solutions and sponges in a plastic bag, seal and label with the words CYTOTOXIC WASTE and incinerate. spusal ringes and ONCO-VIALS®, containers, absorbent materials, solutions and other material which have come into contact with

Any unused medicinal product or waste material should be disposed of in accordance with local requirements

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