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given prior to doxorubicin. Certain data indicate that this effect is minor when anthracycline is administered prior to paclitaxel.

Propranolol: In view of the finding that doxorubicin and propranolol have both been shown to inhibit cardiac mitochondrial CoQ10 enzymes it is possible that such a drug interaction may result in an additive cardiotoxic effect.

Radiotherapy: Concurrent radiotherapy and doxorubicin treatment may be associated with increased radiation toxicity, i.e., skin reactions and mucositis.

Sorafenib: Both increases (21% - 47%) and no change in the AUC of doxorubicin were observed with concomitant treatment with sorafenib 400 mg twice daily. The clinical significance of these findings is unknown.

FERTILITY, PREGNANCY AND LACTATION

Effects on Fertility: Doxorubicin may cause infertility during the time of drug administration. In women, doxorubicin may cause amenorrhea. Although ovulation and menstruation appear to return after termination of therapy, premature menopause can occur.

Doxorubicin was toxic to male reproductive organs in animal studies, producing testicular atrophy, diffuse degeneration of the seminiferous tubules, and hypospemia.

Doxorubicin is mutagenic and can induce chromosomal damage in human spermatozoa. Oligospermia or azoospermia may be permanent; however, sperm counts have been reported to return to normospermic levels in some instances. This may occur several years after the end of therapy. Men undergoing treatment with doxorubicin should use effective contraceptive measures.

Use in Pregnancy: There is no information on the drug's use in pregnancy; therefore, the drug should not be used in pregnant women or those likely to become pregnant unless the expected benefit outweighs any potential risk. If a woman receives doxorubicin during pregnancy or becomes pregnant while taking the drug, she should be apprised of the potential hazard to the fetus. Although animal studies have not demonstrated teratogenic activity due to doxorubicin treatment, an embryotoxic action is evident. Studies with rabbits and rats have revealed a decreased weight gain and a higher incidence of resorbed fetuses. No greater incidence of gross, visceral or skeletal malformations or of post-natal deaths has been observed.

Dose-related mutagenic effects of doxorubicin have been reported to produce severe chromosomal aberrations in *in vitro* studies. In view of this activity, the use of this drug in pregnant women is not recommended.

Use in Lactation: Doxorubicin is secreted in breast milk. Women should be instructed not to breast-feed while undergoing treatment with doxorubicin.

Effects on ability to drive and use machines: The effects of this medicine on a person's ability to drive and use machines were not assessed as part of its registration.

Adverse effects (undesirable effects)

Adverse reactions reported with doxorubicin therapy are listed below by MedDRA System Organ Class. Frequencies are defined as: Very common, Common, Uncommon, Rare, Very rare and Not known.

Blood and Lymphatic System Disorders	
Very common	Leucopenia, neutropenia, anaemia, thrombocytopenia
Cardiac Disorders	
Common	Cardiomyopathy, congestive cardiac failure, sinus tachycardia
Not known	Atrioventricular block, tachyarrhythmia, bundle branch block, pericardial effusion
Eye Disorders	
Common	Conjunctivitis
Not known	Keratitis, increased lacrimation
Gastrointestinal Disorders	
Very common	Mucosal inflammation/stomatitis, diarrhoea, vomiting, nausea
Common	Oesophagitis, abdominal pain
Not known	Gastrointestinal haemorrhage, erosive gastritis, colitis, mucosal discoloration, large intestinal haemorrhage ^a , gastrointestinal necrosis ^a , large intestinal ulcer ^a
General Disorders and Administration Site Conditions	
Very common	Pyrexia, asthenia, chills
Common	Infusion site reaction, extravasation
Not known	Malaise, injection site erythema, death
Immune System Disorders	
Not known	Anaphylactic reaction
Infections and Infestations	
Very common	Infection
Common	Sepsis, cellulitis
Investigations	
Very common	Decreased ejection fraction, abnormal transaminases, increased weight, abnormal electrocardiogram
Metabolism and Nutrition Disorders	
Very common	Decreased appetite
Not known	Dehydration, Hyperuricaemia

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Neoplasms Benign, Malignant and Unspecified (including cysts and polyps)	
Not known	Acute lymphocytic leukaemia, acute myeloid leukaemia
Nervous System Disorders	
Not known	Somnolence
Renal and Urinary Disorders	
Not known	Chromaturia ^a , renal disorder
Reproductive System and Breast Disorders	
Not known	Amenorrhoea, azoospermia, oligospermia
Skin and Subcutaneous Tissue Disorders	
Very common	Palmar-plantar erythrodysesthesia syndrome, alopecia
Common	Urticaria, rash, skin hyperpigmentation, nail hyperpigmentation
Not known	Recall phenomenon, photosensitivity reaction, pruritis, skin disorder, skin necrosis, skin wrinkling, blister
Vascular Disorders	
Uncommon	Embolism
Not known	Shock, haemorrhage, thrombophlebitis, phlebitis, phleboecrosis, hot flash, flushing
a.	Reported in patients with acute myelogenous leukaemia treated with combination doxorubicin and cytarabine
b.	Reported in patients with early breast cancer receiving doxorubicin-containing adjuvant therapy
c.	For one to two days after administration

Intravesical Use: Systemic toxicity is not a common problem, however, adverse reactions have been noted at doses exceeding that recommended (see Dose and method of administration).

Local reactions observed include chemical cystitis, contraction of the bladder, haematuria, painful micturition, frequency and urgency. These disturbances are transient.

OVERDOSAGE

Acute overdose with doxorubicin will result in acute cardiac alterations, severe myelosuppression (mainly leucopenia and thrombocytopenia), and gastrointestinal toxicity effects (mainly mucositis). Delayed cardiac failure may occur up to six months after the overdose. Patients should be observed carefully and should signs of cardiac failure arise, be treated along conventional lines. Single doses of 250 mg and 500 mg of doxorubicin have proved fatal. Such doses may cause acute myocardial degeneration within 24 hours and severe myelosuppression, the effects of which are greatest between 10 and 15 days after administration.

Toxic blood levels have not been established. Doxorubicin is highly protein bound; however, if haemoperfusion is initiated within minutes of an overdose, a reduction in serum levels can be achieved. Haemodialysis is unlikely to be effective.

There is no specific antidote for doxorubicin. Symptomatic supportive measures should be instituted. Support respiratory and cardiac function. Cardiac monitoring is recommended. Particular attention should be given to prevention and treatment of possible severe haemorrhages or infections secondary to severe, persistent bone marrow depression.

PHARMACOLOGICAL PROPERTIES

Pharmacodynamic properties

Mechanism of Action: Though not completely elucidated, the mechanism of action of doxorubicin is related to its ability to bind to and inhibit nuclear acid synthesis. Cell culture studies have demonstrated rapid cell penetration and perinuclear chromatin binding, rapid inhibition of mitotic activity and nucleic acid synthesis, mutagenesis and chromosomal aberrations.

Doxorubicin has immunosuppressive effects. It inhibits the titre of haemolytic and haemagglutinating antibodies in mice immunised with sheep red blood cells. Similar evidence in man indicates that doxorubicin is a powerful, but temporary immunosuppressant agent.

Doxorubicin is a cell cycle, phase non-specific cytotoxic drug. The toxic effects of doxorubicin on the bone marrow appear to be related to its action on proliferating myeloid cells. The cardiotoxicity of doxorubicin is probably mediated by different mechanisms. Although, in animal systems, doxorubicin does inhibit DNA synthesis in cardiac muscle, it is probable that cardiotoxicity is not directly related to inhibition of cardiac muscle replication. There are some data which suggest that it is due to the generation of free radicals which damage cardiac muscle in some uncertain way. These data also suggest that concurrent administration of Vitamin E and other free radical acceptors may prevent cardiotoxicity in experimental animal systems without impairing its antitumour efficacy. These studies need confirmation but they do suggest that it may be possible to divert the antitumour effects of the drug from its cumulative cardiotoxic effects.

The specificity of doxorubicin toxicity appears to be related primarily to proliferative activity of normal tissue. Thus, bone marrow, gastro-intestinal tract and gonads are the main normal tissues damaged.

PHARMACOKINETIC PROPERTIES

Absorption/Distribution: ROBOL is not suitable for oral administration as less than 5% of the drug is absorbed. Pharmacokinetic studies show the intravenous administration of normal or radiolabelled ROBOL (doxorubicin hydrochloride) for injection is followed by rapid plasma clearance and significant tissue binding. No information on plasma-protein binding of doxorubicin is available. Doxorubicin does not cross the blood brain barrier.

Metabolism: The metabolism and disposition of doxorubicin is still to be defined. The drug is metabolised predominantly by the liver to Adriamycinol and several aglycone metabolites. It should be noted that several of the metabolites are cytotoxic. However, it is not certain whether any are more cytotoxic than the parent compound. High levels of metabolites appear rapidly in plasma and undergo a distribution phase with a measurable short initial half-life. Metabolism may be impaired in patients with abnormal liver function.

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The disappearance of doxorubicin and its metabolites from the plasma follows a triphasic pharmacokinetic pattern with a mean half-life of the first phase of 12 minutes, of a second phase of 3.3 hours and a prolonged third phase of 29.6 hours.

Excretion: Urinary excretion, as determined by fluorimetric methods, accounts for approximately 4% to 5% of the administered dose in five days. Biliary excretion represents the major excretion route, 40% to 50% of the administered dose being recovered in the bile or the faeces in seven days. Impairment of liver function results in slower excretion, and consequently, increased retention and accumulation in plasma and tissues.

PHARMACEUTICAL PARTICULARS

List of excipients:

Sodium chloride
Hydrochloric acid
Water for injections

Incompatibilities: Doxorubicin should not be mixed with heparin as a precipitate may form and it is not recommended that Doxorubicin be mixed with other drugs. Contact with any solution of an alkaline pH should be avoided as it will result in hydrolysis of the drug. Doxorubicin should not be mixed with fluorouracil (e.g. in the same IV infusion bag or at the Y-site of an IV infusion line) since it has been reported that these drugs are incompatible to the extent that a precipitate might form. If concomitant therapy with Doxorubicin and fluorouracil is required, it is recommended that the IV line be flushed between the administrations of these drugs.

Sheff life

Unopened vial: 24 months

Reconstituted solution: Up to 7 days

Reconstituted solution: Doxorubicin hydrochloride Injection must be diluted prior infusion. Doxorubicin hydrochloride injection containing 0.9% Sodium Chloride Injection & 5% Dextrose Injection to a final concentration of 0.5 mg/ml for intravenous infusion and diluted with 0.9% Sodium Chloride Injection to a final concentration of 0.8mg/ml for intravesical administration. The solutions are physically and chemically stable for up to 7 days at room temperature (approximately 25°C) and refrigerated condition (2°C to 8°C). From a microbiological point of view, the product should be used immediately. If not used immediately, in-store storage times and conditions prior to use are the responsibility of the user.

STORAGE CONDITION

Special precautions for storage: Unopened vials of ROBOL (DOXORUBICIN CONCENTRATE FOR SOLUTION FOR INFUSION 2 MG/ML) must be stored under refrigerated conditions between 2°C to 8°C. Discard unused portion. Protect from light. Keep out of reach of children. Doxorubicin Injection diluted in 0.9% Sodium Chloride Injection or 5% Dextrose Injection is stable at room temperature (20°C - 25°C) and refrigerated condition (2°C to 8°C) for up to 7 days but the infusion must be completed within that time.

Nature and contents of container: ROBOL (Doxorubicin Concentrate For Solution For Infusion 2mg/ml) is packed in 10 mg/5 ml in 5 ml Type I tubular amber coloured glass vial with 5 mL nominal capacity with reinforced Non-PVC Base which are stoppered with 20 mm Type II Omniflex rubber plug and tampered with 20 mm aluminium flip off red seal top. One 5.0 ml tubular amber coloured glass pack in unit carton (without diluent). Each vial is packed into secondary carton along with a package insert.

ROBOL (Doxorubicin Concentrate For Solution For Infusion 2 mg/ml) is packed as 50 mg/25ml in Type-I moulded amber coloured glass vial with 30ml nominal capacity with reinforced Non-PVC Base which are stoppered with 20 mm Type II Omniflex rubber plug and tampered with 20 mm aluminium flip off red seal top. One 30.0 ml tubular amber coloured glass pack in unit carton (without diluent). Each vial is packed into secondary carton along with a package insert.

ROBOL (Doxorubicin Concentrate For Solution For Infusion 2 mg/ml) is packed as 200 mg/100 ml in Type-I moulded amber coloured glass vial with 100 mL nominal capacity with reinforced Non-PVC Base which are stoppered with 20 mm Type II Omniflex rubber plug and tampered with 20 mm aluminium flip off red seal top. One 100.0 ml tubular amber coloured glass pack in unit carton (without diluent). Each vial is packed into secondary carton along with a package insert.

Special precautions for disposal

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

MAL No. : MAL22056054AZ

Product Registration Holder:

Unimed Sdn Bhd

53, Jalan Tembung SJK 5/2B, Bandar Sri Damansara, 52200, Kuala Lumpur, Malaysia

Manufactured by:

VENUS REMEDIES LIMITED

Hill Top Industrial Estate, Jhamrajji, EIP

Phase-1 (Extn.), Bhatoli Kalan, Baddi,

Distt. Solan, Himachal Pradesh-173205, India

Date of Revision : 01-11-2023

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PHARMACEUTICAL PARTICULARS

List of excipients:

Sodium chloride
Hydrochloric acid
Water for injections

Incompatibilities: Doxorubicin should not be mixed with heparin as a precipitate may form and it is not recommended that Doxorubicin be mixed with other drugs. Contact with any solution of an alkaline pH should be avoided as it will result in hydrolysis of the drug. Doxorubicin should not be mixed with fluorouracil (e.g. in the same IV infusion bag or at the Y-site of an IV infusion line) since it has been reported that these drugs are incompatible to the extent that a precipitate might form. If concomitant therapy with Doxorubicin and fluorouracil is required, it is recommended that the IV line be flushed between the administrations of these drugs.

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STORAGE CONDITION
Special precautions for storage: Unopened vials of ROBOL (DOXORUBICIN CONCENTRATE FOR SOLUTION FOR INFUSION 2 MG/ML) is a red solution free from visible extraneous particulate matter. Each 1 ml contains 2 mg Doxorubicin hydrochloride. After reconstitution: A light red solution.

CLINICAL PARTICULARS

Therapeutic indications: ROBOL has been used successfully to produce regression in neoplastic conditions such as: acute leukaemia, Wilms' tumour, neuroblastoma, soft tissue and bone sarcomas, breast carcinoma, lymphomas of both Hodgkin's and non-Hodgkin's type, bronchogenic (lung) carcinoma, thyroid carcinoma, hepatomas, ovarian carcinoma, etc. Doxorubicin is also indicated by intravesical administration in the primary management of non-metastatic carcinoma of the bladder (Tis, T1, T2). Doxorubicin has some antitumour activities against stomach, cervix, head and neck, testicle, myeloma and endometrial cancer.

DOSE AND METHOD OF ADMINISTRATION

Dosage: Care in the administration of ROBOL will reduce the chance of perivenous infiltration. It may also decrease the chance of local reactions such as urticaria and erythematous streaking. The recommended dosage schedule is 60-75 mg/m² as a single intravenous injection administered at 21-day intervals. The lower dose should be given to patients with inadequate marrow reserves due to old age, or prior therapy, or neoplastic marrow infiltration. An alternative dose schedule is 30 mg/m² on each of three successive days repeated every 4 weeks. The adult dosage regimens may be suitable for paediatric cases. The recommended lifetime cumulative dose limit is 550 mg doxorubicin/m² body surface area. ROBOL has been administered as an intrarterial infusion for 1-3 days at doses of 45-100 mg/m². It is recommended that the total cumulative dose of doxorubicin for adults aged 70 or older be restricted to 450 mg/m² body surface area.

Use in Hepatic Impairment: Doxorubicin dosage must be reduced if hepatic function is impaired according to the following table:

Serum Bilirubin Levels	BSP Retention	Recommended Dose
20 – 50 µmol/L	9 - 15%	1/2 normal dose
> 50 µmol/L	> 15%	1/4 normal dose

METHOD OF ADMINISTRATION

ROBOL Injection is supplied as 10 mg doxorubicin hydrochloride in 5 mL vials, 50 mg doxorubicin hydrochloride in 25 mL vials and 200 mg doxorubicin hydrochloride in 100 mL vials respectively (doxorubicin concentration 2 mg/mL).

Doxorubicin Injection must be handled with care. If contact with the skin occurs, wash thoroughly with soap and water. The product contains no antimicrobial preservative. The single dose vials should be used in one patient on one occasion only. Discard any residue. The solution is to be stored under refrigeration (2°C to 8°C) and should be protected from sunlight and retained in the carton until time of use. Storage of Doxorubicin at refrigerated conditions can result in the formation of a gelled product. This gelled product will return to a slightly viscous to mobile solution after two to a maximum of four hours equilibration at room temperature (20°C to 25°C).

It is recommended that Doxorubicin be slowly administered into the tubing of a freely running intravenous infusion of Sodium Chloride Injection, or 5% Glucose Injection. The tubing should be attached to a butterfly needle inserted preferably into a large vein. The rate of administration is dependent on the size of the vein and the dosage. However, the dose should be administered in not less than 3-5 minutes. A direct push injection is not recommended due to the risk of extravasation, which may occur even in the presence of adequate blood return upon needle aspiration.

Local erythematous streaking along the vein as well as facial flushing may be indicative of too rapid

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administration. A burning or stinging sensation may be indicative of perivenous infiltration and the infusion should be immediately terminated and restarted in another vein.

Until specific compatibility data are available, it is not recommended that Doxorubicin be mixed with other drugs. Contact with alkaline solutions should be avoided since this can lead to hydrolysis of doxorubicin. Doxorubicin should not be mixed with heparin due to the possibility of incompatibility that may lead to precipitation. Doxorubicin should not be mixed with fluorouracil (e.g. in the same IV infusion bag or at the Y-site of an IV infusion line) since it has been reported that these drugs are incompatible to the extent that a precipitate might form. If concomitant therapy with doxorubicin and fluorouracil is required, it is recommended that the IV line be flushed between the administrations of these drugs. Doxorubicin has been used in combination with other approved chemotherapeutic agents.

Though evidence is available that at least in some types of neoplastic disease combination chemotherapy is superior to single agents the benefits and risks of such therapy have not yet been fully elucidated.

Doxorubicin must not be given intrathecally or intracranially or by long-term infusion. Direct intravenous infusion is not advised due to the tissue damage that may occur if the infusion infiltrates the tissues. If a central vein catheter is used then infusion of doxorubicin in sodium chloride 0.9% injection is advised.

Protective Measures:

- The following protective recommendations are given due to the toxic nature of this substance:
 - Personnel should be trained in good technique for reconstitution and handling.
 - Pregnant staff should be excluded from working with this drug.
 - Personnel handling doxorubicin should wear protective clothing: goggles, gowns and disposable gloves and masks.
 - A designated area should be defined for reconstitution (preferably under a laminar flow system). The work surface should be protected by disposable, plastic-backed, absorbent paper.
 - All items used for reconstitution, administration or cleaning, including gloves, should be placed in high-risk waste-disposal bags for high-temperature incineration.
 - Spillage or leakage should be treated with dilute sodium hypochlorite (1% available chlorine) solution, preferably by soaking, and then water.
 - All cleaning materials should be disposed of as indicated previously.
 - In case of skin contact thoroughly wash the affected area with soap and water or sodium bicarbonate solution. However, do not abrade the skin by using a scrub brush.
 - In case of contact with the eye(s), hold back the eyelid(s) and flush the affected eye(s) with copious amounts of water for at least 15 minutes. Then seek medical evaluation by a physician.
 - Always wash hands after removing gloves.

METHOD OF ADMINISTRATION

Intravenous Administration:

The following procedure is recommended:

- The bladder should be catheterised and emptied.
- Dilute ROBOL to a final concentration of 80 mg in 100 mL of normal saline and instil via the catheter into the bladder.
- The catheter should be removed and the patient instructed to be on one side. At 15 minute intervals the patient should alternate to the opposite side over a 1-hour period.
- The patient should be requested not to urinate for 1 hour, after which the bladder should be emptied of solution. The procedure should be repeated at monthly intervals.

Route of Administration: Intravenous and Intravesical

CONTRAINDICATIONS

- Hypersensitivity to doxorubicin or any other component of the product, other anthracyclines or anthracenediones.
- Pregnancy and lactation (see section Special warnings and precautions for use).

Contraindications for intravenous (IV) use:

- peristaltic myelosuppression or severe stomatitis induced by previous treatment with other antitumour agents or radiotherapy;
- presence of generalised infection;
- severe arrhythmias;
- severe myocardial insufficiency;
- recent myocardial infarction;
- severe liver impairment;
- previous treatment with maximum cumulative doses of doxorubicin, daunorubicin, epirubicin, idarubicin and/or other anthracyclines and anthracenediones (see Section Special warnings and precautions for use).

Contraindications for intravesical use:

- invasive tumours that have penetrated the bladder wall;
- urinary infections;
- inflammation of the bladder;
- catheterisation of the bladder (e.g., due to massive intravesical tumours);
- haematuria

SPECIAL WARNINGS AND PRECAUTIONS FOR USE

CAUTION: Cytotoxic Agent: It is dangerous to take this preparation except under Medical Supervision.

General: ROBOL should be administered only under the supervision of a physician who is experienced in the use of cancer chemotherapeutic agents. ROBOL is not an antimicrobial agent.

Patients should recover from acute toxicities of prior cytotoxic treatment (such as stomatitis, neutropenia, thrombocytopenia and generalised infections) before beginning treatment with ROBOL. Initial treatment with ROBOL requires close observation of the patient and extensive laboratory monitoring.

It is strongly recommended therefore, that patients be hospitalised at least during the first phase of treatment.

Blood count and liver function tests should be carried out prior to each ROBOL treatment.

ROBOL solution should be handled with care. If either of the preparations comes in contact with the skin or mucosa, the appropriate areas should be washed thoroughly with soap and water.

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