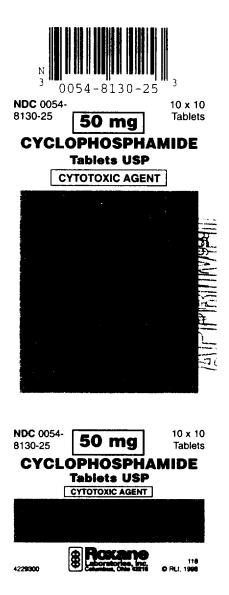
CENTER FOR DRUG EVALUATION AND RESEARCH

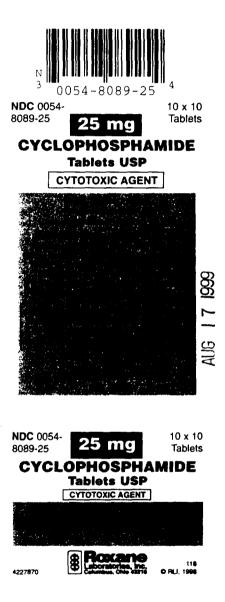
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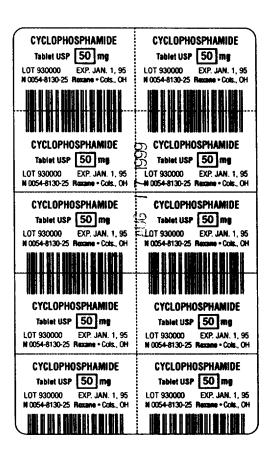
ANDA 40-032 - Cyclophosphamide Tablets USP, 25 mg and 50 mg 50 mg Tablet Blister Carton Labeling Component No. 4229300 Print Code 118



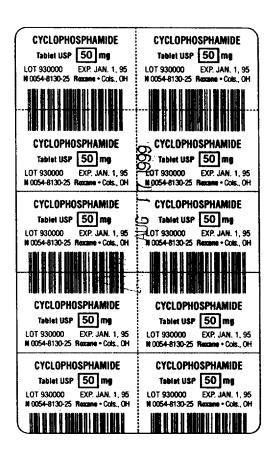
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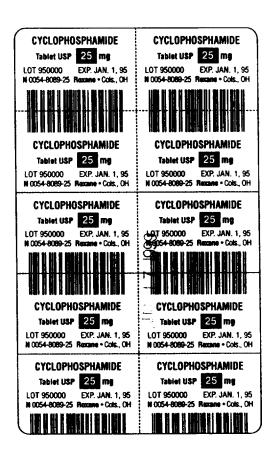
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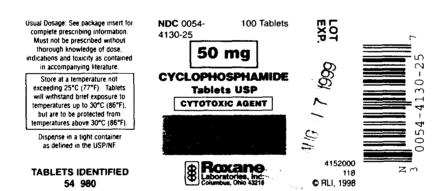
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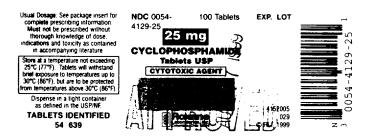
Date orig./rev.: 01.15.98



ANDA 40-032 - Cyclophosphamide Tablets USP, 25 mg and 50 mg 50 mg Tablet Bottle Label Component No. 4152000 Print Code 118



ANDA 40-032 - Cyclophosphamide Tablets USP, 25 mg and 50 mg 25 mg Tablet Bottle Label Component No. 4152005 Print Code 029



TABLETS USP

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118

ROXANE LABORATORIES, INC.

CYCLOPHOSPHAMIDE TABLETS USP 25 mg and 50 mg

 $R_{\!\scriptscriptstyle K}$ only.

DESCRIPTION

Cyclophosphamide is a synthetic antineoplastic drug chemically related to the nitrogen mustards. Cy-clophosphamide is a white crystalline powder with the molecular formula C₇H₁₁C₁N₇O₂P · H₂O and a molecu-lar weight of 279.10. The chemical name for cyclophosphamide is 2-(Bis(2-chloroethyl)amino)tetrahydro-2H-1,3,2-oxazaphosphorine 2-oxide monohydrate. Cyclophosphamide is soluble in water, saline, or ethanol and has the following structural formula:

Each tablet for oral administration contains cyclopact tablet for one administration contains cycle-phosphamide USP (calculated as anhydrous) 25 or 50 mg. In addition, each tablet contains the following inac-tive ingredients: acacla, FD&C Blue No. 1, factose monohydrate, magnesium stearate, and microcrystal-

CLINICAL PHARMACOLOGY

Cyclophosphamide is biotransformed principally in the liver to active alkylating metabolites by a mixed function microsomal oxidase system. These metabo-

function microsomal oxidase system. These metabo-lites interfere with the growth of susceptible rapidly pro-literating malignant cells. The mechanism of action is thought to involve cross-linking of tumor cell DNA. Cyclophosphamide is well absorbed after oral ad-ministration with a bloavallability greater than 75%. The unchanged drug has an elimination half-life of 3 to 12 hours. It is eliminated primarily in the form of me-tabolites, but from 5 to 25% of the dose is excreted in urine as unchanged drug. Several cytotoxic and non-cytotoxic metabolites have been identified in urine and in plasma. Concentrations of metabolites reach a maxin plasma. Concentrations of metabolites reach a maximum in plasma 2 to 3 hours after an intravenous dose. Plasma protein binding of unchanged drug is low but some metabolites are bound to an extent greater than some ineracolises are count to an extern greater in a 60%. It has not been demonstrated that any single metabolite is responsible for either the therapeutic or toric effects of cyclophosphamide. Although elevated levels of metabolites of cyclophosphamide have been observed in patients with renal failure, increased clinical toxicity in such patients has not been demonstrat-

INDICATIONS AND USAGE

Malignant Disea

Cyclophosphamide tablets, although effective alone in susceptible malignancies, are more frequently used concurrently or sequentially with other antineoplastic drugs. The following malignancies are often susceptible to cyclophosphamide treatment:

- Malignant by cycopriospriamor treatment. Malignant hymphomas (Stages III and IV of the Ann Arbor staging system), Hodgikh's disease, lymphocytic lymphoma (nodular or diffuse), mixed-cell type lymphoma, histliocytic lymphoma. Burkliti's lymphoma.
- phoma. Multiple myeloma.
- Multipre myserma.
 Laukemlas: Chronic lymphocytic feukemia, chronic granulocytic feukemia (it is usually ineffective in acute blastic crists), acute myelogenous and monocytic feukemia; acute lymphoblastic (stem-cell) feukemia in children (cyclophosphamide given during remission is effective in prolonging its duration).

 4. Mycosis fungoldes (advanced disease).

 5. Neuroblastoma (disseminated disease).

- 6. Adenocarcinoma of the ovary.

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INDICATIONS AND USAGE

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- Malignant lymphomas (Slages III and IV of the Ann Arbor stagling system), Hodgkin's disease, lympho-cytic lymphoma (nodular or diffuse), mixed-cell type lymphoma, histlocytic lymphoma, Burkitt's lymphoma.
- Multiple myeloma.

 Leukemias: Chronic lymphocytic leukemia, chronic granulocytic leukemia (it is usually ineffective in acute blastic crisis), acute myelogenous and monocytic leukemia; acute lymphoblastic (stem-ceil) leukemia in children (cyclophosphamide given dur-ing remission is effective in protonging its duration).
- Mycosis fungoides (advanced disease). Neuroblastoma (disseminated disease).
- Adenocarcinoma of the ovary
- Retinoblastoma.
- Carcinoma of the breast.

Nonmalignant Disease
Biopsy Proven "Minimal Change" Nephrotic Synin Children

Cyclophosphamide tablets are useful in carefully selected cases of biopsy proven "minimal change" nephrotic syndrome in children but should not be used as primary therapy. In children whose disease fails to respond adequately to appropriate adrenocorticosteroid therapy or in whom the adrenocorticosteroid therapy produces or threatens to produce intolerable side effects, cyclophosphemide may induce a remission. Cyclophosphemide is not indicated for the nephrotic syndrome in adults or for any other renal disease

CONTRAINDICATIONS

Continued use of cyclophosphamide is contraindcated in patients with severely depressed bone marrow function. Cyclophosphamide is contraindicated in patients who have demonstrated a previous hypersentitivity to it. See WARNINGS and PRECAUTIONS sections.

WARNINGS

Carcinogenesis, Mutagenesis, Impairment of Fertil-

Second malignancies have developed in some patients treated with cyclophosphamide used alone or in association with other antineoplastic drugs and/or mo-dalities. Most frequently, they have been urinary bladder, myeloproliferative, or lymphoproliferative malig-nancies. Second malignancies most frequently were detected in patients treated for primary myeloproliferative or lymphoproliferative malignancies or nonmalignant disease in which immune processes are believed to be involved pathologically. In some cases, the sec-ond malignancy developed several years after cyclo-phosphamide treatment had been discontinued. In a single breast cancer trial utilizing two to four times the standard dose of cyclophosphamide in conjunction with dozorubicin a small number of cases of secondary acute myeloid leukemia occurred within two years of treatment initiation. Urinary bladder malignancies gen-erally have occurred in patients who previously had hemorrhagic cystitis. In patients treated with cyclo-*hemorrhagic cystitis. In patients treated with cyclo-phosphamide-containing regimens for a variety of solid tumors, isolated case reports of secondary malignan-cies have been published. One case of carcinoma of the renal pelvis was reported in a patient receiving long-term cyclophosphamide therapy for cerebral vas-culitis. The possibility of cyclophosphamide-induced malignancy should be considered in any benefit-to-risk sessesment for use of the drur.

sessment for use of the drug.
Cyclophosphamide can cause fetal harm when administered to a pregnant woman and such abnormaliministered to a pregnant women and such abnorman-ties have been reported following cyclophosphamide therapy in pregnant women. Abnormatities were found in two infants and a skr-month old fetus born to women treated with cyclophosphamide. Ectrodactylla was found in two of the three cases. Normal infants have also been born to women treated with cyclophosphamide during pregnancy, including the first trimester. If this drug is used during pregnancy, or if the patient becomes pregnant while taking (receiving) this drug. the patient should be apprised of the potential hazard to the fetus. Women of childbearing potential should

be advised to avoid becoming pregnant.

Cyclophosphamide interferes with oogenesis and spermatogenesis. It may cause sterility in both sexes.
Development of sterility appears to depend on the dose of cyclophosphamide, duration of therapy, and the state of gonadal function at the time of treatment. Cy-clophosphamide-induced sterility may be irreversible in some patients.

Amenomea associated with decreased estrogen and increased gonadotropin secretion develops i significant proportion of women treated with cyclophos-phamide. Affected patients generally resume regular menses within a few months after cessation of therapy.

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Amenormea associated with decreased estrogen and increased gonadotropin secretion develops in a significant proportion of women treated with cyclophos-phamide. Affected patients generally resume regular menses within a few months after cessation of therapy. Girls treated with cyclophosphamide during prepubescence generally develop secondary sexual characteristics normally and have regular menses. Ovarian fibrosis with apparently complete loss of germ cells after prolonged cyclophosphamide treatment in late prepubescence has been reported. Girls treated with cyclophosphamide during prepubescence subsequently have conceived.

Men treated with cyclophosphamide may develop oligospermia or azoospermia associated with increased gonadotropin but normal testosterone secretion. Sexual potency and libido are unimpaired in these patients. Boys treated with cyclophosphamide during prepubescence develop secondary sexual characteristics normally, but may have oligospermia or azoosper-mia and increased gonedotropin secretion. Some degree of testicular atropiny may occur. Cyclophospha-mide-induced azoospermia is reversible in some patients, though the reversibility may not occur for several years after cessation of therapy. Men temporarily rendered sterile by cyclophosphamide have subse-quently fathered normal children.

Urinary System

Hemorrhagic cystitis may develop in patients treated with cyclophosphamide. Rarely, this condition can be severe and even latel. Fibrosis of the urinary blad-der, sometimes extensive, also may develop with or without accompanying cystitis. Atypical urinary bladder epithelial cells may appear in the urine. These adverse epinelia cells may appear in the unite. Inside adverse effects appear to depend on the dose of cyclophosphamide and the duration of therapy. Such bladder injury is thought to be due to cyclophosphamide metabolities excreted in the urine. Forced fluid intake helps to assure an ample output of urine, necessitates frequent voiding, and reduces the time the drug remains in the bladder. This helps to prevent cystitis. Hematuria usually resolves in a few days after cyclophosphamide treatment is stopped, but it may persist. Medical and/or surgical supportive treatment may be required, rarely, to treat protracted cases of severe hemorrhagic cystitis. It is usually necessary to discontinue cyclophosphamide therapy in instances of severe hemorrhagic . cvstitis.

Cardiac Toxicity
Although a few instances of cardiac dysfunction have been reported following use of recommended doses of cyclophosphamide, no causal relationship has been established. Acute cardiac toxicity has been reported with doses as low as 2.4 g/m² to as high as 26 g/m², usually as a portion of an intensive antineoplasg/m², usually as a portion of an intensive animeopas-tic multidrug regimen or in conjunction with transplan-tation procedures. In a few instances with high doses of cyclophosphamide, severe, and sometimes fatal, congestive near failure has occurred after the first cydophosphamide dose. Histopathologic examination has primarily shown hemormagic myocarditis. Hemopericardium has occurred secondary to hemorrhagic myocarditis and myocardial necrosis. Pericarditis has been reported independent of any hemopericardium.

nemoperaculum. No residual cardiac abnormalities, as evidenced by electrocardiogram or echocardiogram appear to be present in patients surviving episodes of apparent acrdiac toxicity associated with high doses of cyclophos-

Cyclophosphamide has been reported to potentiate doxorubicin-induced cardiotoxicity.

Treatment with cyclophosphamide may cause significant suppression of immune responses. Serious,

sometimes fatal, infections may develop in severely immunosuppressed patients. Cyclophosphamide treatment may not be indicated or should be interrupt-ed or the dose reduced in patients who have or who develop viral, bacterial, lungal, protozoan, or helminth-

Other

Rare instances of anaphylactic reaction including one death have been reported. One instance of possible cross-sensitivity with other alkylating agents has been reported.

PRECAUTIONS

General

Special attention to the possible development of toxicity should be exercised in patients being treated with cyclophosphamide if any of the following conditions are present:

- Thrombocytopenia
 Tumor cell infiltration of bone marrow
- Previous X-ray therapy
- Previous therapy with other cytotoxic agents Impaired hepatic function
- Impaired renal function

Laboratory Tests

During treatment, the patient's hematologic profile (particularly neutrophils and platelets) should be monitored regularly to determine the degree of hematopoi-etic suppression. Urine should also be examined regularly for red cells which may precede hemorrhagic

Drug Interactions
The rate of metabolism and the leukopenic activity of cyclophosphamide reportedly are increased by chronic administration of high doses of phenobarbital.

The physician should be alert for possible com-bined drug actions, desirable or undesirable, involving cyclophosphamide even though cyclophosphamide has been used successfully concurrently with other drugs, including other cytotoxic drugs.

Cyclophosphamide treatment, which causes a

marked and persistent inhibition of cholinesterase activity, potentiates the effect of succinylcholine chloride.

If a patient has been treated with cyclophospha-mide within 10 days of general anesthesia, the anesthesiologist should be alerted.

Adrenalectomy

Since cyclophosphamide has been reported to be more toxic in adrenalectomized dogs, adjustment of the doses of both replacement steroids and cyclophos-phamide may be necessary for the adrenalectomized nationt

Wound Healing

Cyclophosphamide may interfere with normal

wound healing. Carcinogenesis, Mutagenesis, Impeliment of Fertil-

See WARNINGS section for information on carcinogenesis, mutagenesis, and impairment of fertility. Pregnancy:

Pregnancy Category D - See WARNINGS section. Nursing Mothers

Cyclophosphamide is excreted in breast milk. Be-cause of the potential for serious adverse reactions and the potential for tumorigenicity shown for cyclo-phosphamide in humans, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother

ADVERSE REACTIONS

Information on adverse reactions associated with the use of cyclophosphamide is arranged according to body system affected or type of reaction. The adverse reactions are listed in order of decreasing incidence. The most serious adverse reactions are described in the WARNINGS section.

Reproductive System

See WARNINGS section for information on impairment of fertility. Digestive System

Nausea and vomiting commonly occur with cyclophosphamide therapy. Anorexia and, less frequently, abdominal discomfort or pain and diarrhee may occur. There are isolated reports of hemorrhagic colitis, oral mucosal ulceration and jaundice occurring during therapy. These adverse drug effects generally remit when cyclophosphamide treatment is stopped.

Skin and its Structures

Alopecia occurs commonly in patients treated with cyclophosphamide. The hair can be expected to grow back after treatment with the drug or even during continued drug treatment, though it may be different in tex-ture or color. Skin rash occurs occasionally in patients receiving the drug. Pigmentation of the skin and changes in nails can occur. Hematopoletic System

Leukopenia occurs in patients treated with cyclo-phosphamide, is related to the dose of drug, and can be used as a dosage guide. Leukopenia of less than 2000 celts/mm3 develops commonly in patients treated with an initial loading dose of the drug, and less fre-quently in patients maintained on smaller doses. The

degree of neutropenia is particularly important because it correlates with a reduction in resistance to infections. Fever has also been reported in patients with neutropenia. Thrombocytopenia or anemia develop occasionally

In patients treated with cyclophosphamide. These hematologic effects usually can be reversed by reducing the drug dose or by interrupting treatment. Recovery

sometimes fatal, infections may develop in severely immunosuppressed patients. Cyclophosphamide treatment may not be indicated or should be interrupted or the dose reduced in patients who have or who develop viral, bacterial, fungal, protozoan, or helminthic infections.

Rare instances of anaphylactic reaction including one death have been reported. One instance of possible cross-sensitivity with other alkylating agents has been reported.

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General

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Thrombocytopenia or anemia develop occasionally in patients treated with cyclophosphamide. These hematologic effects usually can be reversed by reducing the drug dose or by interrupting treatment. Recovery

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Thrombocytopenia or anemia develop occasionally in patients treated with cyclophosphamide. These hematologic effects usually can be reversed by reducing the drug dose or by interrupting treatment. Recovery from leukopenia usually begins in 7 to 10 days after cessation of therapy.

See WARNINGS section for information on cystitis and urinary bladder fibrosis.

Hemorrhagic ureteritis and renal tubular necrosis have been reported to occur in patients treated with cyclophosphamide. Such lesions usually resolve following cessation of therapy.

Infections

See WARNINGS section for information on reduced host resistance to infections.

Carcinogenesis
See WARNINGS section for information on carcinogenesis.

Respiratory System

Interstitial pulmonary fibrosis has been reported in patients receiving high doses of cyclophosphamide over a prolonged period.

Rare instances of anaphylactic reaction including one death have been reported. One instance of possible cross-sensitivity with other alkylating agents has been reported. SIADH (syndrome of inappropriate ADH secretion) has been reported with the use of overlophosphamide.

OVERDOSAGE

No specific antidote for cyclophosphamide is known. Overdosege should be managed with supportlive measures, including appropriate treatment for any concurrent infaction, myelosuppression, or cardiac toxicity should it occur.

DORAGE AND ADMINISTRATION

Treatment of Malignant Diseases Adults and Children

Oral cyclophosphamide dosing is usually in the range of 1 to 5 mg/kg/day for both initial and maintenance dosing.

nance dosing. Many other regimens of intravenous and oral cyclo-phosphamide have been reported. Dosages must be adjusted in accord with evidence of antitumor activity and/or leukopenia. The total leukocyte count is a good, objective guide for regulating dosage. Transient decreases in the total white blood cell count to 2000 cells/mm³ (following short courses) or more persistent reduction to 3000 cells/mm³ (with continuing therapy) are tolerated without serious risk of infection if there is no marked granulocytopenia.

When cyclophosphamide is included in combined cytotoxic regimens, it may be necessary to reduce the dose of cyclophosphamide as well as that of the other drugs.

Cyclophosphamide and its metabolites are dialyzable although there are probably quantitative differences depending upon the dialysis system being used. Patients with compromised renal function may show some measurable changes in pharmacokinetic parameters of cyclophosphamide metabolism, but there is no consistent evidence indicating a need for cyclophosphamide dosage modification in patients with renal function impairment.

Treatment of Normalignant Diseases Biopsy Proven "Minimal Change" Nephrotic Syndrome in Children

An oral dose of 2.5 to 3 mg/kg daily for a period of 60 to 90 days is recommended. In males, the Indicated oligospermia and azoospermia increases if the duration of cyclophosphamide treatment exceeds 60 days. Treatment beyond 90 days increases the probability of sterility. Adrenocorticosteroid therapy may be tapered and discontinued during the course of cyclophosphamide therapy. See PRECAUTIONS section concerning hematologic monitoring.

Extemporaneous liquid preparations of cyclophosphanide for oral administration may be prepared by dissolving cyclophosphanide for injection in Aromatic Elitar NF. Such preparations should be stored under retrigeration in glass containers and used within 14 days.

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

Cyclophosphamide is available as: 25 mg light blue, round, unacored tablets (Identified 34 639)
NDC 0054-8089-25: Unit dose, 10 tablets per strip, 10 strips per shelf pack, 10 shelf packs per shipper.
NDC 0054-4129-25: Bottles of 100 tablets.
50 mg light blue, round, unacored tablets (Identified 34 980)
NDC 0054-8130-25: Unit dose, 10 tablets per strip, 10 strips per shelf pack, 10 shelf packs per shipper.
NDC 0054-4130-25: Bottles of 100 tablets.

25 mg light blue, round, unscored tablets (Identified 54 639) NDC 0054-8089-25: Unit dose, 10 tablets per strip, 10 NDC 0054-8089-25. Dirt dose, 10 tablets per strip, 10 strips per shell pack, 10 shell packs per shipper. NDC 0054-4129-25: Bottles of 100 tablets. 50 mg light blue, round, unacored tablets (Identified 54 980) NDC 0054-8130-25: Unit dose, 10 tablets per strip, 10 strips per shelf pack, 10 shelf packs per shipper. NDC 0054-4130-25: Bottles of 100 tablets.

Storage at or below 77°F (25°C) is recommended; this product will withstand brief exposure to temperatures up to 86°F (30°C) but should be protected from temperatures above 86°F (30°C).

- References

 1. Recommendations for the Safe Handling of Parenteral Antineoplastic Drugs, NiH Publication No. 83-2621. For safe by the Superintendent of Documents, US Government Printing Office, Washington, DC 20402.

 2. AMA Council Report. Guidelines for Handling Parenteral Antineoplastics. JAMA 1985; March 15.
- National Study Commission on Cytotoxic Exposure Recommendations for Handling Cytotoxic Agents. Available from Louis P. Jeffrey, ScD, Chairman, National Study Commission Octotoxic Exposure, Massachusetts Coflege of Pharmacy and Allied Health Science, 179 Longwood Ave., Boston, Massachusetts 02115.
 Clinical Oncological Society of Australia: Guidelines and Recommendations for Safe Handling of Antineoplastic Agents. Med J Australia 1983; 1:426-428.
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 5. Jones RB, et al: Safe handling of chemotherapeutic agents: A report from the Mount Sinal 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.
 7. OSHA Work Practice Guidelines for Personnel Dealing with Cytotoxic (Antineoplastic) Drugs. Am J Hosp Pharm 1986; 43:1193-1204.

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